

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: McNeil Drive Medical Center					2. Regulated Entity No.: RN102732369				
3. Customer Name: D'Abadie Family Parternship, Ltd.					4. Customer No.: 601391550				
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification			Extension		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	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		<input checked="" type="radio"/> Non-residential			8. Site (acres):		1.98 Acres	
9. Application Fee:	\$4,000		10. Permanent BMP(s):			Proposed Sed./Filter Pond			
11. SCS (Linear Ft.):	Existing(N/A)		12. AST/UST (No. Tanks):			N/A			
13. County:	Travis		14. Watershed:			Walnut Creek			

Application Distribution

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

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

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

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	<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 <u> </u> Hays Trinity <u> </u> Plum Creek	<u> </u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u> </u> Austin <u> </u> Buda <u> </u> Dripping Springs <u> </u> Kyle <u> </u> Mountain City <u> </u> San Marcos <u> </u> Wimberley <u> </u> Woodcreek	<u> </u> X <u> </u> Austin <u> </u> Bee Cave <u> </u> Pflugerville <u> </u> Rollingwood <u> </u> Round Rock <u> </u> Sunset Valley <u> </u> West Lake Hills	<u> </u> Austin <u> </u> Cedar Park <u> </u> Florence <u> </u> Georgetown <u> </u> Jerrell <u> </u> Leander <u> </u> Liberty Hill <u> </u> Pflugerville <u> </u> Round Rock

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Scott J. Foster, P.E.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

6/29/23

****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):

WATER POLLUTION ABATEMENT PLAN

FOR

**McNeil Drive Medical Center
Austin, Texas**

July 2023

Prepared For:

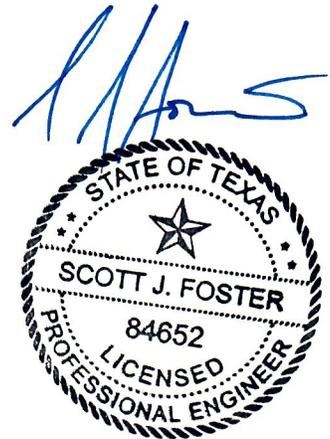
D'Abadie Family Partnership, Ltd.

5501 Fort Benton Drive
Austin, Texas 78735

Prepared By:



P.O. Box 3639
Cedar Park, Texas 78630
512-354-4682 (Main) * 512-351-3331 (Fax)



6/29/23

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- v. Permanent Stormwater Section (TCEQ-0600)**
- vi. Agent Authorization Form (TCEQ-0599)**
- vii. Application Fee Form (TCEQ-0574)**
- viii. Core Data Form (TCEQ-10400)**

I. GENERAL INFORMATION FORM (TCEQ-0587)

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: Scott J. Foster, P.E.

Date: 6/29/20

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: McNeil Drive Medical Center
2. County: Travis
3. Stream Basin: Rattan and Walnut Creek
4. Groundwater Conservation District (If applicable): N/A
5. Edwards Aquifer Zone:
 - Recharge Zone
 - Transition Zone
6. Plan Type:
 - WPAP
 - SCS
 - Modification
 - AST
 - UST
 - Exception Request

7. Customer (Applicant):

Contact Person: Justin D'Abadie

Entity: D'Abadie Family Partnership, Ltd.

Mailing Address: 5501 Fort Benton Drive

City, State: Austin, TX

Zip: 78735

Telephone: (604) 699-2878

FAX: _____

Email Address: drd6584@gmail.com

8. Agent/Representative (If any):

Contact Person: Scott J. Foster, P.E.

Entity: 360 Professional Services, Inc.

Mailing Address: P.O. Box 3639

City, State: Cedar Park, TX

Zip: 78630

Telephone: (512) 354-4682

FAX: (512) 351-3331

Email Address: scott.foster@360psinc.com

9. Project Location:

The project site is located inside the city limits of Austin.

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.

6500 McNeil Drive, Austin, TX 78729

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: August 1, 2023

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

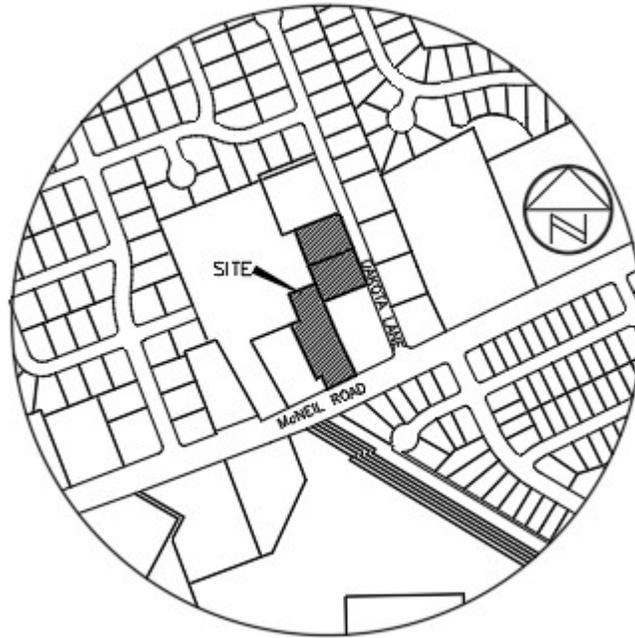
- (3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

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.

ATTACHMENT A ROAD MAP

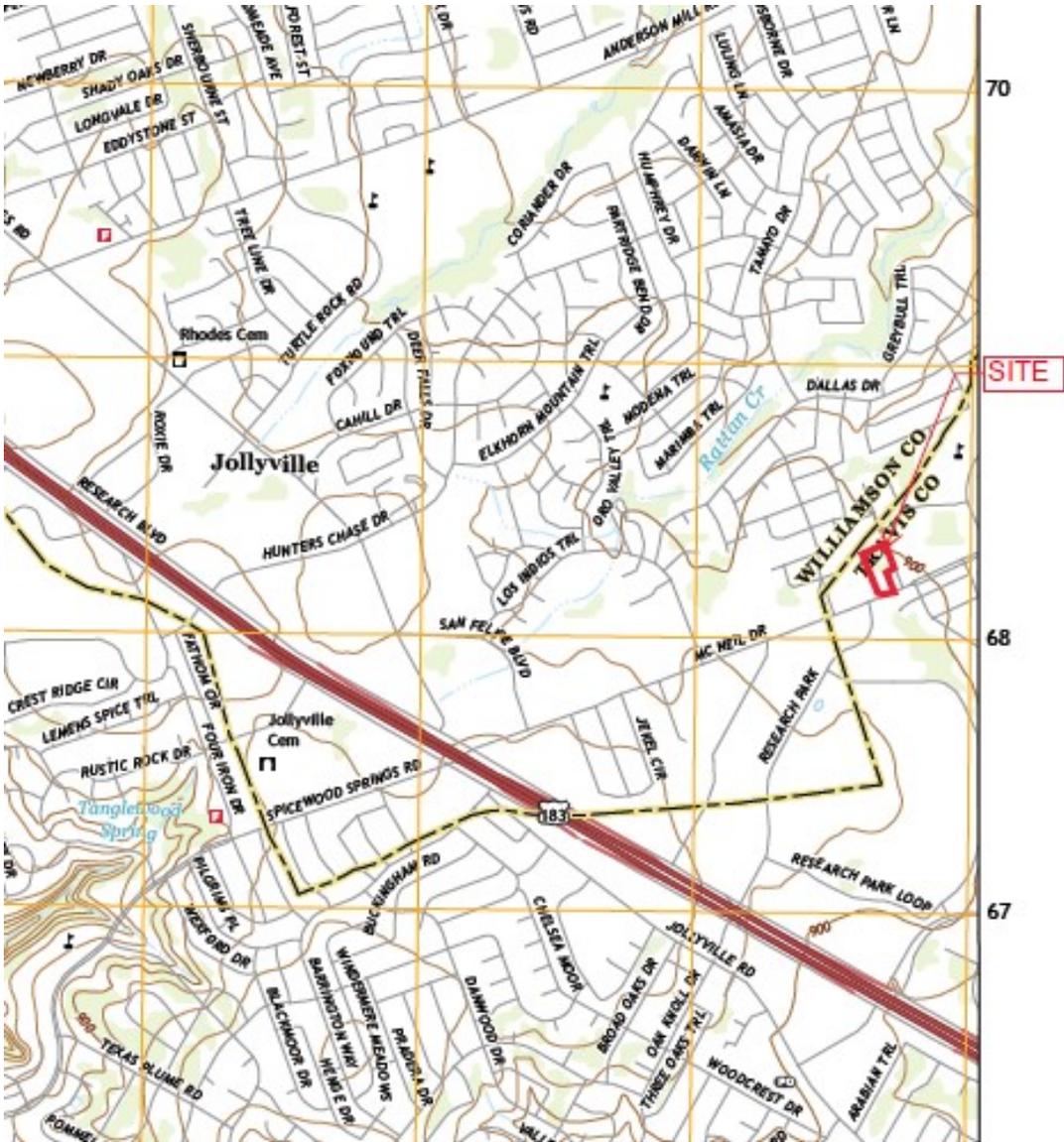


LOCATION MAP
NOT TO SCALE

Driving Directions (from downtown Austin):

1. Head **west** on **E 1st St/E Cesar Chavez St** toward **TX-1 Loop**
2. Keep **left** at the fork and merge onto **TX-1 Loop N**
3. Use the **right** 2 lanes to take the **US 183** exit toward Research Blvd and keep left at the fork to merge onto **US-183 N**
4. Keep left at the fork, follow signs for US-183 N/Research Blvd N and merge onto US-183 N
5. Take the exit toward McNeil Rd/Spicewood Springs Rd
6. Turn right onto McNeil Dr
7. End at 6500 McNeil Dr

**ATTACHMENT B
USGS MAP**



Jollyville Quadrangle

Texas

7.5 Minute Series (Topographic)

20190223

ATTACHMENT C PROJECT DESCRIPTION

The McNeil Drive Medical Center project consists of 3 office buildings, totaling ±14,888 GSF, with associated drives, utilities, landscaping and water quality/detention improvements. The building uses will be a mix of professional office and medical office. The site is located at 6500 McNeil Road within the full purpose limits of the City of Austin in Travis County, Texas (refer to vicinity map located in Attachment A). The site is located within the Recharge Zone of the Edward's Aquifer.

The project site is located on approximately 1.98 acres of land located at the northwest corner of McNeil Drive and Dakota Lane. The site is currently undeveloped other than existing drives and underground utilities that were constructed with McNeil Drive Medical Offices to serve the subject site. The existing development was constructed under Edwards Aquifer Permits 01110601 dated January 24, 2002 (WPAP) and 02032802 dated June 7, 2002 (SCS).

The site is bound by regional water quality and detention ponds to the north; Dakota Lane to the west; Existing storage and car wash developments to the south; and McNeil Drive to the east. Due to the existing roadways along the north and east and existing ridge along the west and south, no off-site water is expected to drain to the subject site.

The existing and proposed improvements produce approximately 46,078 square feet (1.12 acres) of impervious cover (57%). On-site water quality and detention facilities will be provided and were designed for 1.23 acres (65%) of impervious cover to account for future development. Note this is the maximum amount of impervious cover allowed per City of Austin Ordinances. The proposed water quality improvements consist of one partial sedimentation and filtration pond designed to TCEQ criteria.

This project was previously approved on February 14, 2020 and no substantial changes have been made to the plans. Construction was delayed due to the global pandemic.

It is the intent of this application to be reviewed and approved under the requirements of TCEQ's Technical Guidance Manual.

II. GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

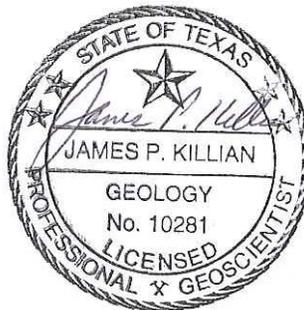
**GEOLOGIC ASSESSMENT
MCNEIL DRIVE MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TRAVIS COUNTY, TEXAS
HJN 190246 GA**

PREPARED FOR:

**DFP, LTD.
AUSTIN, TEXAS**

PREPARED BY:

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



25 NOVEMBER 2019

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I. GEOLOGIC ASSESSMENT FORM (TCEQ-0585)

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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

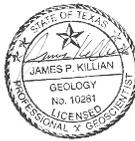
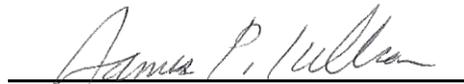
Telephone: 512 328-2430

Date: 25 November 2019

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: McNeil Drive Medical Center, 6500 McNeil Drive, Austin, Travis Co., Texas

Project Information

1. Date(s) Geologic Assessment was performed: 5 November 2019

2. Type of Project:

WPAP
 SCS

AST
 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)
Georgetown stony clay loam, 1-3% slopes (GsB)	D	1 to 2
Speck stony clay, 1-5% slopes (SsC)	C	1 to 1.5

Soil Name	Group*	Thickness(feet)

* Soil Group Definitions (Abbreviated)

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

6. **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 100'
 Site Geologic Map Scale: 1" = 100'
 Site Soils Map Scale (if more than 1 soil type): 1" = 100'
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 0 (#) 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 Limestone (Ked)	Edwards Aquifer	250	912	0
Comanche Peak Limestone (Kc)		30	662	250
			632	280

Note: Unit elevation and thickness given with respect to a ground surface elevation of 912 feet near the southern boundary of the subject site.

	Date: 11/11/2019	Attachment B Stratigraphic Column McNeil Drive Medical Center 6500 McNeil Drive Austin, Travis County, Texas	
	Drawn: RMO		
	HJN NO: 190246.001GA		

ATTACHMENT C
DESCRIPTION OF SITE GEOLOGY

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

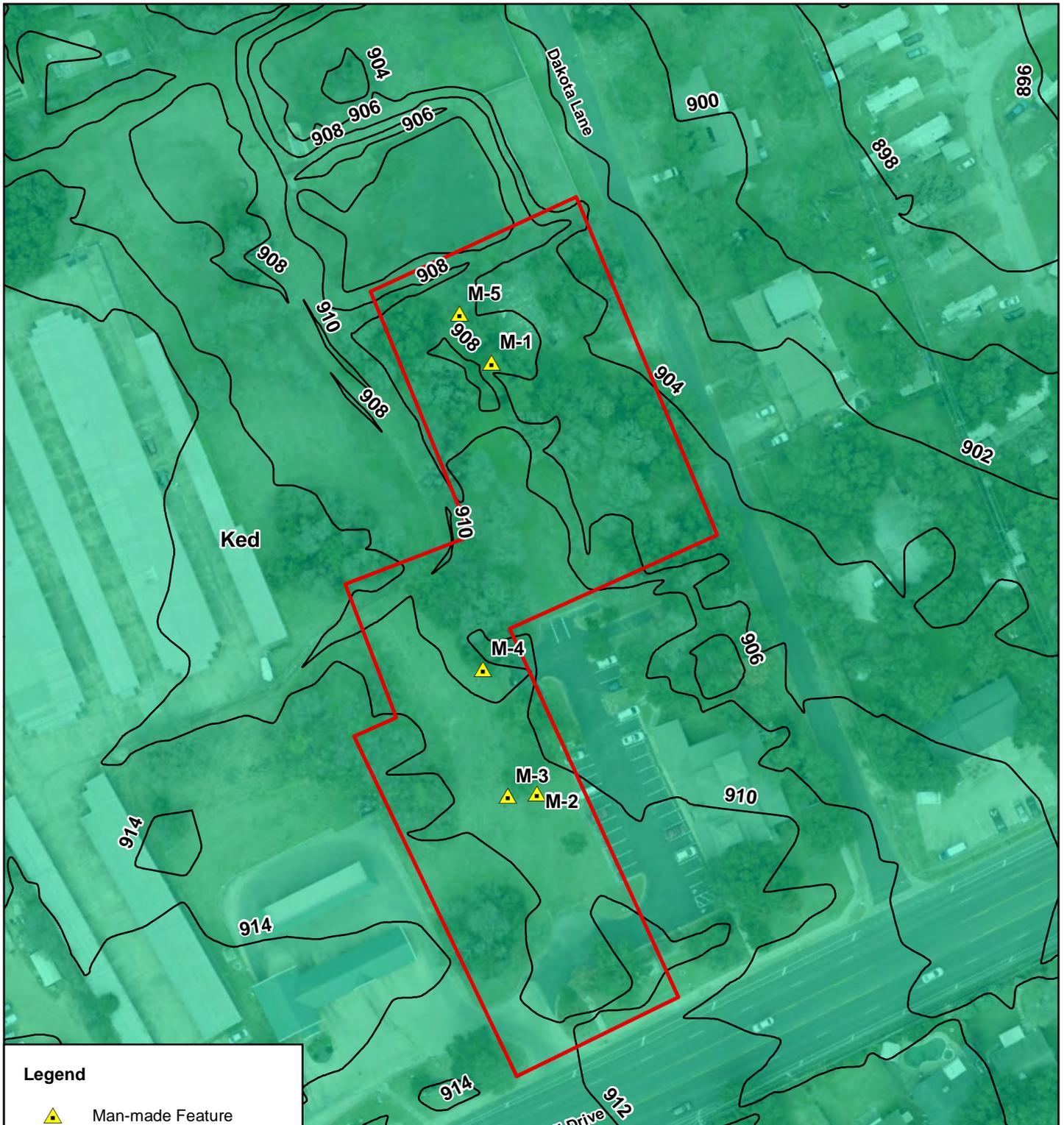
A geologic assessment of the approximately 2-acre McNeil Drive Medical Center tract was conducted pursuant to Texas rules for regulated activities on the Edwards Aquifer Recharge Zone (EARZ) (30 TAC 213). The subject site consists of an undeveloped, vacant tract of land located at 6500 McNeil Drive in Austin, Travis 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 predominantly underlain by the undifferentiated Edwards Limestone Formation (Ked) (UT-BEG, 1981) with an estimated maximum thickness of about 250 feet.

No geologic features were identified at the subject site. A total of 5 man-made features (M-1 to M-5) were identified at the subject site. Further information pertaining to the man-made features is presented in the following Attachments D, E, and F. Photographs of the man-made features are presented in Attachment G.

ATTACHMENT D
SITE GEOLOGIC MAP



Legend

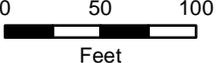
-  Man-made Feature
-  2-Foot Contours
-  Subject Site
-  Edwards Limestone (Ked)



Horizon
Environmental Services, Inc.

Date:	11/11/2019
Drawn:	RMO
HJN NO:	190246.001GA
Source:	COA, 2015; Esri, 2018; UT-BEG, 1995

Attachment D
Site Geologic Map
McNeil Drive Medical Center
6500 McNeil Drive
Austin, Travis County, Texas

0 50 100
Feet

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 2 acres of undeveloped land located at 6500 McNeil Drive in Austin, Travis County, Texas (Attachment F, Figure 1).

2.2 LAND USE

The subject site is currently vacant with no apparent use. 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 flat to gently sloping terrain that is located within the Rattan Creek and Walnut Creek watersheds (Attachment F, Figures 2 and 3). Surface elevations on the subject site vary from a minimum of approximately 904 feet above mean sea level (AMSL) along the northeastern property boundary to a maximum of approximately 912 feet AMSL near the southern property boundary along McNeil Drive (USGS, 1987). Drainage on the site occurs primarily by overland sheet flow from southwest to northeast.

2.4 EDWARDS AQUIFER ZONE

The entire subject site is located within the Edwards Aquifer Recharge Zone (EARZ) (TCEQ, 2019) (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

Two soil units are mapped within the subject site (NRCS, 2019) (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.

Georgetown stony clay loam, 1 to 3% slopes (GsB) is a gently sloping soil that occurs within upland areas. Typically, this soil has a slightly acidic, brown, stony clay loam surface layer about 7 inches thick and few stones on or near the surface. The subsoil, which extends down to a depth of about 35 inches, is neutral, reddish-brown clay in the upper part and slightly acidic, reddish-brown, cobbly clay in the lower part. The underlying material is indurated, fractured limestone that has clay loam in crevices and fractures. This soil is well-drained. Permeability is slow and surface runoff is medium. The available water capacity is low. Reaction is neutral to slightly acidic. The erosion hazard ranges to slight.

The Speck series consists of shallow, well-drained soils overlying limestone. The surface layer is noncalcareous, reddish-brown clay loam about 14 inches thick. The next layer, which extends to a depth of about 18 inches, is noncalcareous, dark reddish-brown gravelly clay. The underlying material is limestone rock. Many stones and pebbles are on the surface. This soil is slowly permeable, and the available water capacity is low. Speck stony clay loam (SsC) has the profile described as representative of the series. Reddish-brown chert pebbles and cobblestones 2 to 10 inches in diameter cover 30 to 50% of the face in most areas, and up to 80% in a few areas. Chert makes up 5 to 10% of the A horizon and 15 to 30% of the B horizon. Some areas have scattered large, outcropping limestone fragments.

2.6 WATER WELLS

A review of TCEQ and Texas Water Development Board (TWDB) records revealed no water wells at the subject site and approximately 20 wells within 0.5 miles of the subject site (TCEQ, 2019; TWDB, 2019). According to the TWDB records, most of the off-site wells are soil borings and/or monitor wells with depths ranging from 5 to 45 feet below surface grade and no reported aquifer designation.

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 entire subject site is underlain by the undifferentiated Edwards Limestone Formation (Ked) (UT-BEG, 1995) 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 subject site is located within the Balcones Fault Zone and available geologic reports indicate the nearest mapped fault is located about 1.75 miles to the southeast. In general, the rock strata beneath the site dip to the east-southeast at about 10 to 30 feet per mile (less than 1°). The site Stratigraphic Column is 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 5 November 2019. Horizon found no geologic features at the subject site that meet the TCEQ definition of a potential recharge feature. Horizon found 5 man-made features (M-1 to M-5) at the subject site that meet the TCEQ definition of a man-made potential recharge feature. Man-made features M-1 to M-4 are manhole covers for a City of Austin sanitary sewer line. Man-made feature M-5 is a closed depression about 6 feet in diameter by 2 feet deep located immediately west of an existing concrete slab of a former residence. This feature contained broken pieces of concrete and fill and appears to have been used for a septic tank associated with the former residence.

The man-made 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

All of the man-made features (M-1 to M-5) have been evaluated as non-sensitive for groundwater recharge capability and would therefore not require TCEQ protective setback buffers. No further action is recommended for these non-sensitive man-made features.

The site generally appears 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. Geographic Information Systems / Maps. *2012 2-foot Contours*, <<http://austintexas.gov/departments/gis-and-maps/gis-data>>. Updated 1 May 2015.
- (Esri) Environmental Systems Research Institute. World Imagery, <<https://www.arcgis.com/home/item.html?id=10df2279f9684e4a9f6a7f08febac2a9>>. Imagery date 15 November 2018. Accessed 11 November 2019.
- (NRCS) Web Soil Survey, <<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>>. Accessed 22 November 2019.
- (OSM) OpenStreetMap contributors. Open Street Map, <<http://www.openstreetmap.org>>. Available under the Open Database License (www.opendatacommons.org/licenses/odbl). Accessed 11 November 2019.
- (TCEQ) *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones*. Revised October 2004.
- _____. *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 22 November 2019.
- (TWDB) Texas Water Development Board. Water Information Integration and Dissemination System. TWDB Groundwater Database, <<https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>>. Accessed 24 November 2019.
- (USGS) US Geological Survey. 7.5-minute series topographic maps, Jollyville, Texas, quadrangle. 1987.
- (UT-BEG) The University of Texas at Austin Bureau of Economic Geology; C.V. Proctor, Jr., T.E. Brown, J.H. McGowen, N.B. Waechter, and V.E. Barnes. *Geologic Atlas of Texas*, Austin Sheet. Francis Luther Whitney Memorial Edition. 1974; reprinted 1995.
- Werchan, Leroy E., A.C. Lowther, and Robert N. Ramsey. *Soil Survey of Travis County, Texas*. US Department of Agriculture, Natural Resources Conservation Service (formerly Soil Conservation Service), in cooperation with the Texas Agricultural Experiment Station. 1974.

ATTACHMENT F
ADDITIONAL SITE MAPS

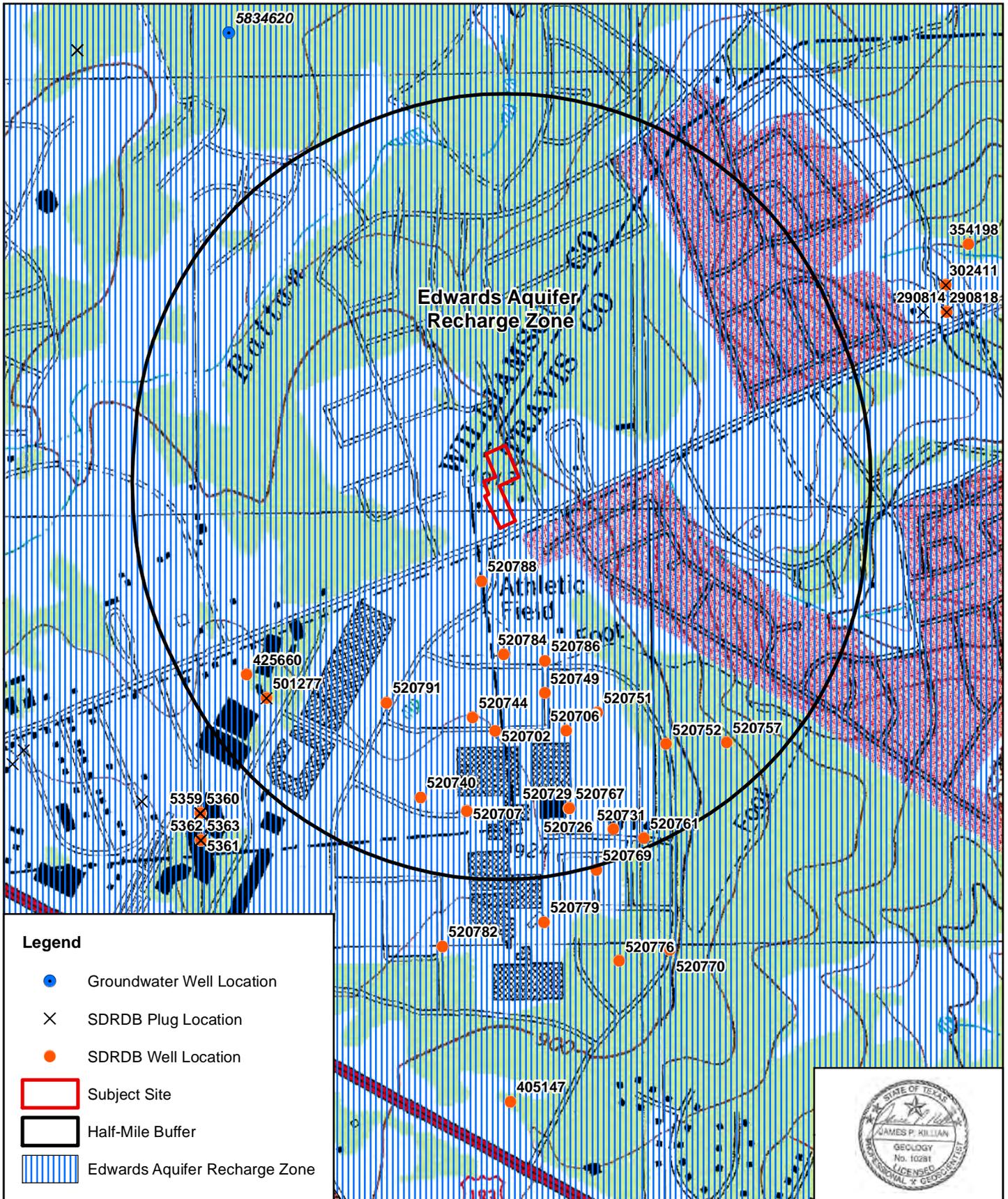


Horizon
Environmental Services, Inc.

Date:	11/11/2019
Drawn:	RMO
HJN NO:	190246.001GA
Source:	OSM, 2019

Attachment F, Figure 1
Vicinity Map
McNeil Drive Medical Center
6500 McNeil Drive
Austin, Travis County, Texas

0 1,000 2,000
Feet



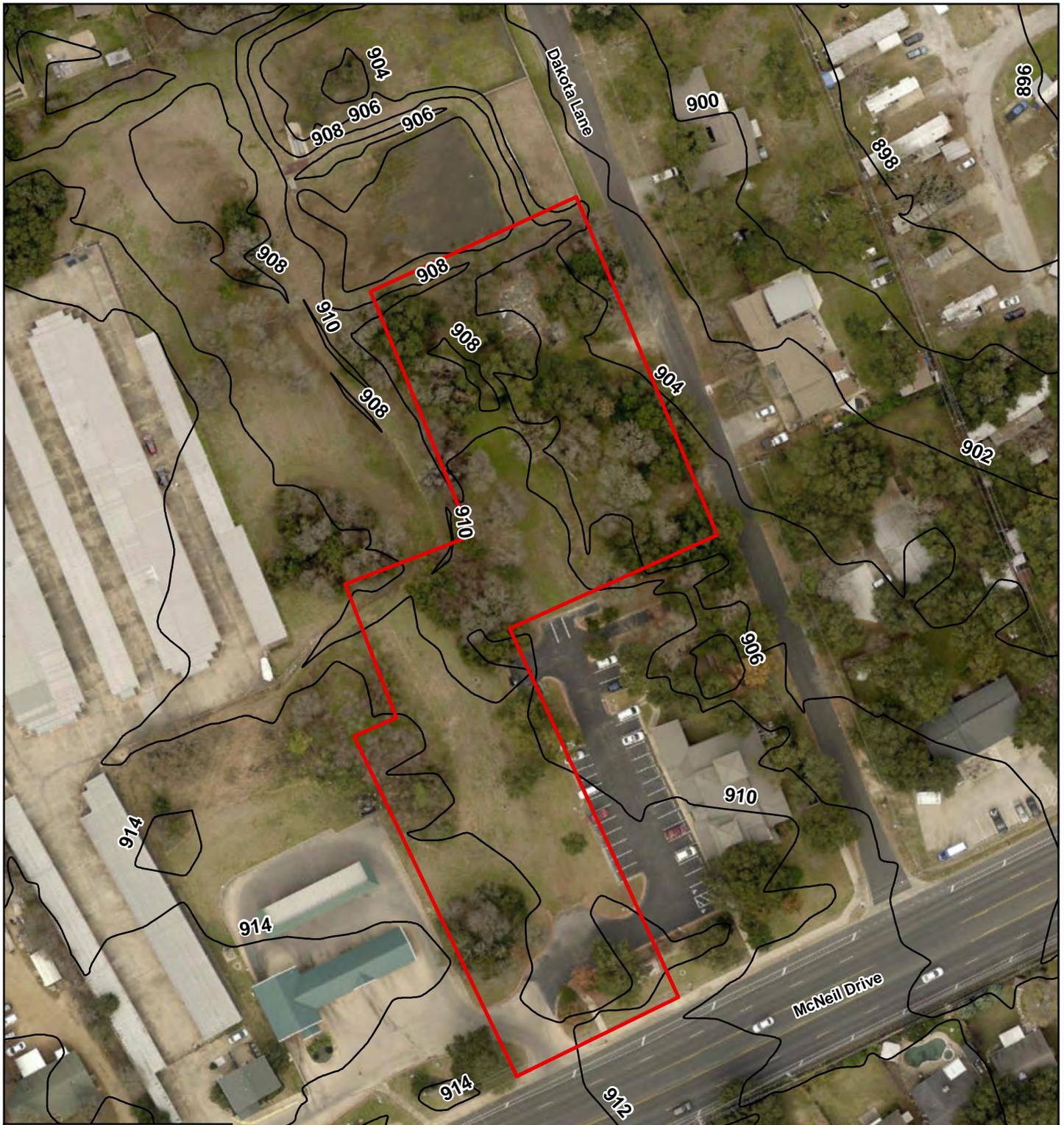
Legend

- Groundwater Well Location
- × SDRDB Plug Location
- SDRDB Well Location
- Subject Site
- Half-Mile Buffer
- Edwards Aquifer Recharge Zone



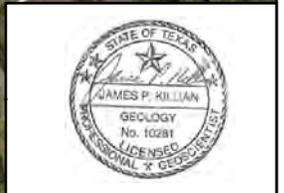
Date:	11/11/2019
Drawn:	RMO
HJN NO:	190246.001GA
Source:	TCEQ, 2019; TWDB, 2019; USGS, 1987

Attachment F, Figure 2
 Topography and Hydrogeology Map
 McNeil Drive Medical Center
 6500 McNeil Drive
 Austin, Travis County, Texas



Legend

-  2-Foot Contours
-  Subject Site



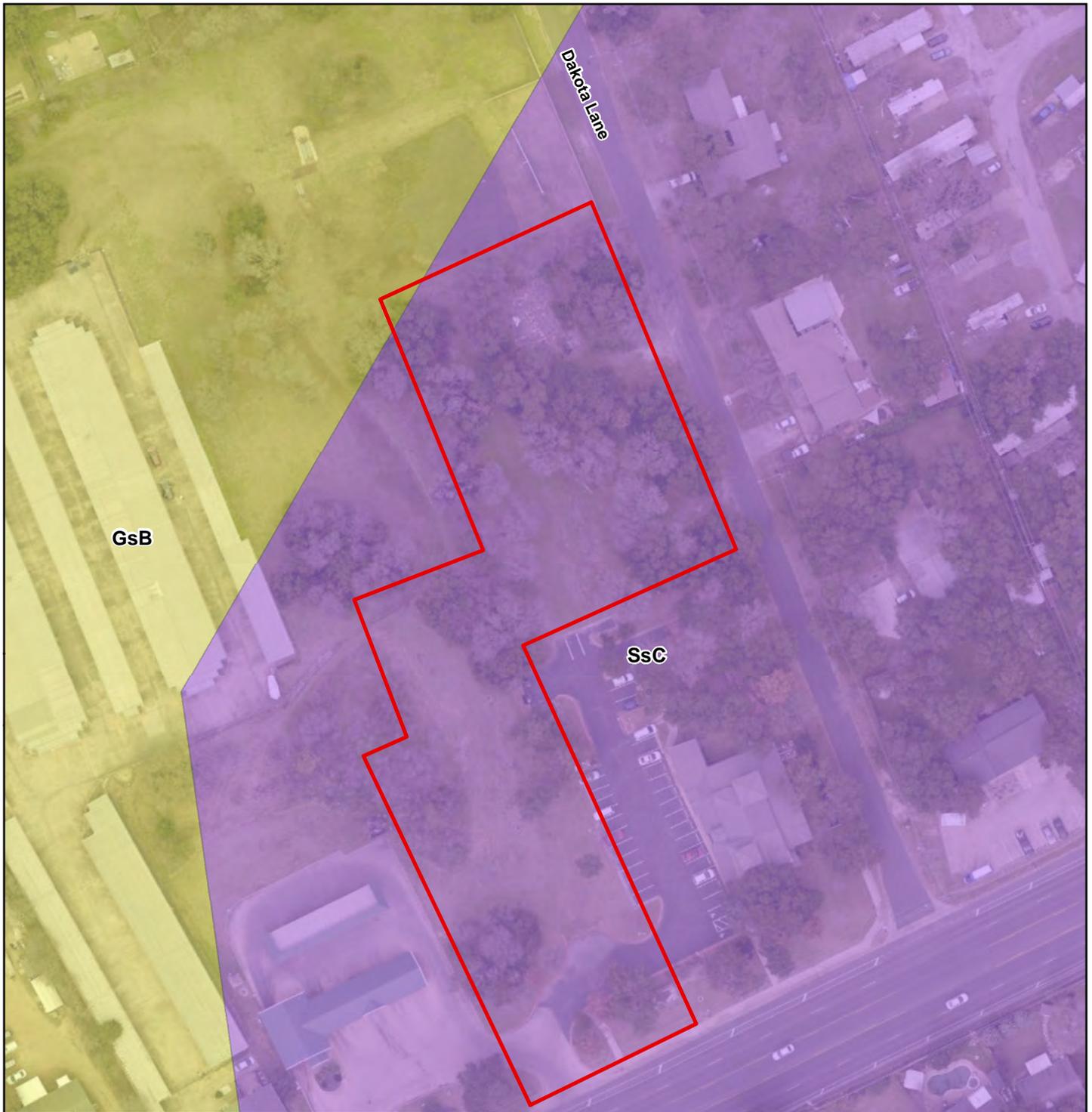
Horizon
Environmental Services, Inc.

Date:	11/11/2019
Drawn:	RMO
HJN NO:	190246.001GA
Source:	COA, 2015; Esri, 2018

Attachment F, Figure 3
Site Topography Map
McNeil Drive Medical Center
6500 McNeil Drive
Austin, Travis County, Texas



0 50 100
Feet



Legend

-  Subject Site
-  Georgetown stony clay loam, 1-3% slopes (GsB)
-  Speck stony clay loam, 1-5% slopes (SsC)



Horizon
Environmental Services, Inc.

Date:	11/11/2019
Drawn:	RMO
HJN NO:	190246.001GA
Source:	Esri, 2018; NRCS, 2019

Attachment F, Figure 4
 Site Soils Map
 McNeil Drive Medical Center
 6500 McNeil Drive
 Austin, Travis County, Texas



0 50 100
Feet

ATTACHMENT G
SITE PHOTOGRAPHS



PHOTO 1

View of subject site at 6500 McNeil Drive, facing northeast



PHOTO 2

Typical view of subject site from McNeil Drive, facing north



PHOTO 3

Typical view of man-made feature M-1 (sanitary sewer manhole) near center of site, facing south



PHOTO 4

View of man-made feature M-5 (closed depression from former residential septic tank), facing west

**III. WATER POLLUTION ABATEMENT PLAN APPLICATION
FORM (TCEQ-0584)**

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: Scott J. Foster, P.E.

Date: 6/29/23

Signature of Customer/Agent:



Regulated Entity Name: McNeil Drive Medical Center

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): 1.98

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	18,258	÷ 43,560 =	0.42
Parking	25,392	÷ 43,560 =	0.58
Other paved surfaces	5,097	÷ 43,560 =	0.12
Total Impervious Cover	48,747	÷ 43,560 =	1.12

Total Impervious Cover 1.12 ÷ Total Acreage 1.98 X 100 = 57% 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 x W = _____ Ft² ÷ 43,560 Ft²/Acre = _____ acres.

10. Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

L x W = _____ Ft² ÷ 43,560 Ft²/Acre = _____ acres.

Pavement area _____ acres ÷ R.O.W. area _____ acres x 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>540</u> Gallons/day
<u> </u> % Industrial	<u> </u> Gallons/day
<u> </u> % Commingled	<u> </u> Gallons/day
TOTAL gallons/day <u>540</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 Walnut Creek (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" = 30'.

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 Map No. 48453C0235J dated 01/06/2016

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 0 (#) 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.

ATTACHMENT A

FACTORS AFFECTING SURFACE WATER QUALITY

Potential Sources of Contamination during the construction of this project:

- Oil and Grease: from runoff pollutants associated with paving operations
- Asphalt: emulsion from the streets just after construction is complete
- Construction Phase Pollutants: hydraulic fluid, machine oil, and sediment.

Potential Sources of Contamination after completion of this project:

- Oil, Grease, Coolant from Vehicles
- Fertilizers, Pesticides from Landscaping
- Accidental Spills

ATTACHMENT B VOLUME AND CHARACTER OF STORMWATER

The McNeil Drive Medical Center project is a 1.98-acre site primarily located within the Rattan Creek Watershed with a small portion of the site located within Walnut Creek Watershed. Both are classified as Suburban. The detention pond analysis consists of the comparison of existing and proposed conditions of the proposed project site area. Due to the existing roadways along the north and east and existing ridge along the west and south, no off-site storm water is expected to drain to the subject site.

The existing conditions generate 13.3 cfs (100-year storm) of runoff. The curve number for the existing conditions is 81.8. In the proposed conditions, stormwater runoff will be collected on-site and conveyed by way of overland sheet flow and an underground storm sewer system to proposed water quality and detention facilities. The detention pond will release 12.8 cfs in 100-year storm event and the proposed condition curve number is 91.7.

Both the water quality pond and detention pond have been designed to treat 1.2 acres (65%) of impervious cover to account for future development. Note this is maximum allowable impervious cover for the project per City of Austin Ordinances.

IV. TEMPORARY STORMWATER SECTION (TCEQ-0602)

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: Scott J. Foster, P.E.

Date: 6/29/23

Signature of Customer/Agent:



Regulated Entity Name: McNeil Drive Medical Center

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: Walnut Creek

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.

ATTACHMENT A SPILL RESPONSE ACTIONS

The following practices will be followed for spill prevention and cleanup:

- Manufactures' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanout will be kept in the material storage area onsite. Equipment and materials will include but not be limited to brooms, dust pans, mops, rags gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size.
- The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The Contractor site superintendent, responsible for the day-to-day site operations, will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of the responsible spill personnel will be posted in the material storage area and in the office trailer onsite.

ATTACHMENT B

POTENTIAL SOURCES OF CONTAMINATION

Potential Sources of Contamination during the construction of this project:

- Oil and Grease: from runoff pollutants associated with paving operations
- Asphalt: emulsion from the streets just after construction is complete
- Construction Phase Pollutants: hydraulic fluid, machine oil, and sediment.

Potential Sources of Contamination after completion of this project:

- Oil, Grease, Coolant from Vehicles
- Fertilizers, Pesticides from Landscaping
- Accidental Spills

ATTACHMENTS C & D
SEQUENCE OF MAJOR ACTIVITIES AND TEMPORARY BEST
MANAGEMENT PRACTICES AND MEASURES

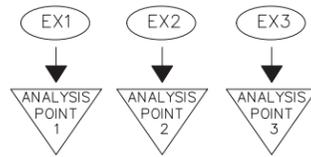
1. Temporary erosion and sedimentation controls are to be installed as indicated on the approved site plan or subdivision construction plan and in accordance with the stormwater pollution prevention plan (SWPPP) that is required to be posted on the site. The following Temporary BMPs will be used during this construction: (1.9 Acres)
 - a. Stabilized Construction Entrance
 - b. Silt Fence/Triangular Filter Dike
 - c. Tree Protection
 - d. Inlet Protection
 - e. Concrete Washout
2. The environmental project manager or site supervisor must contact the watershed protection department, environmental inspection, at 512-974-2278, 72 hours prior to the scheduled date of the required on-site preconstruction meeting.
3. The environmental project manager, and/or site supervisor, and/or designated responsible party, and the general contractor will follow the storm water pollution prevention plan (SWPPP) posted on the site. Temporary erosion and sedimentation controls will be revised, if needed, to comply with city inspectors' directives, and revised construction schedule relative to the water quality plan requirements and the erosion plan.
4. Rough grade the pond(s) at 100% proposed capacity. Either the permanent outlet structure or a temporary outlet must be constructed prior to development of embankment or excavation that leads to ponding conditions. The outlet system must consist of a sump pit outlet and an emergency spillway meeting the requirements of the drainage criteria manual and/or the environmental criteria manual, as required. The outlet system shall be protected from erosion and shall be maintained throughout the course of construction until installation of the permanent water quality pond(s). (0.5 Acres)
5. Temporary erosion and sedimentation controls will be inspected and maintained in accordance with the storm water pollution prevention plan (SWPPP) posted on the site.
6. Begin site clearing/construction (or demolition) activities. (1.9 Acres)
7. Permanent water quality ponds or controls will be cleaned out and filter media will be installed prior to/concurrently with revegetation of site. (0.5 Acres)
8. Complete construction and start revegetation of the site and installation of landscaping. (1.9 Acres)
9. Upon completion of the site construction and revegetation of a project site, the design engineer shall submit an engineer's letter of concurrence to the watershed protection and development review department indicating that construction, including revegetation, is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.
10. Upon completion of landscape installation of a project site, the landscape architect shall submit a letter of concurrence to the watershed protection and development review department indicating that the required landscaping is complete and in substantial conformity with the approved plans. After receiving this letter, a final inspection will be scheduled by the appropriate city inspector.
11. After a final inspection has been conducted by the city inspector and with approval from the city inspector, remove the temporary erosion and sedimentation controls and complete any necessary final revegetation resulting from removal of the controls. Conduct any maintenance and rehabilitation of the water quality ponds or controls.

ATTACHMENT F STRUCTURAL PRACTICES

The project's stormwater runoff will be collected on-site and conveyed by underground storm sewer system to proposed water quality and detention facilities. The water quality and detention pond has been designed to treat the additional pollutants of the project's proposed impervious cover. The detention pond has been designed to limit the proposed stormwater flows to levels at or below existing conditions for the 2, 10, 25, and 100-year storm events. No structural practices will be located within a floodplain.

**ATTACHMENT G
DRAINAGE AREA MAP**

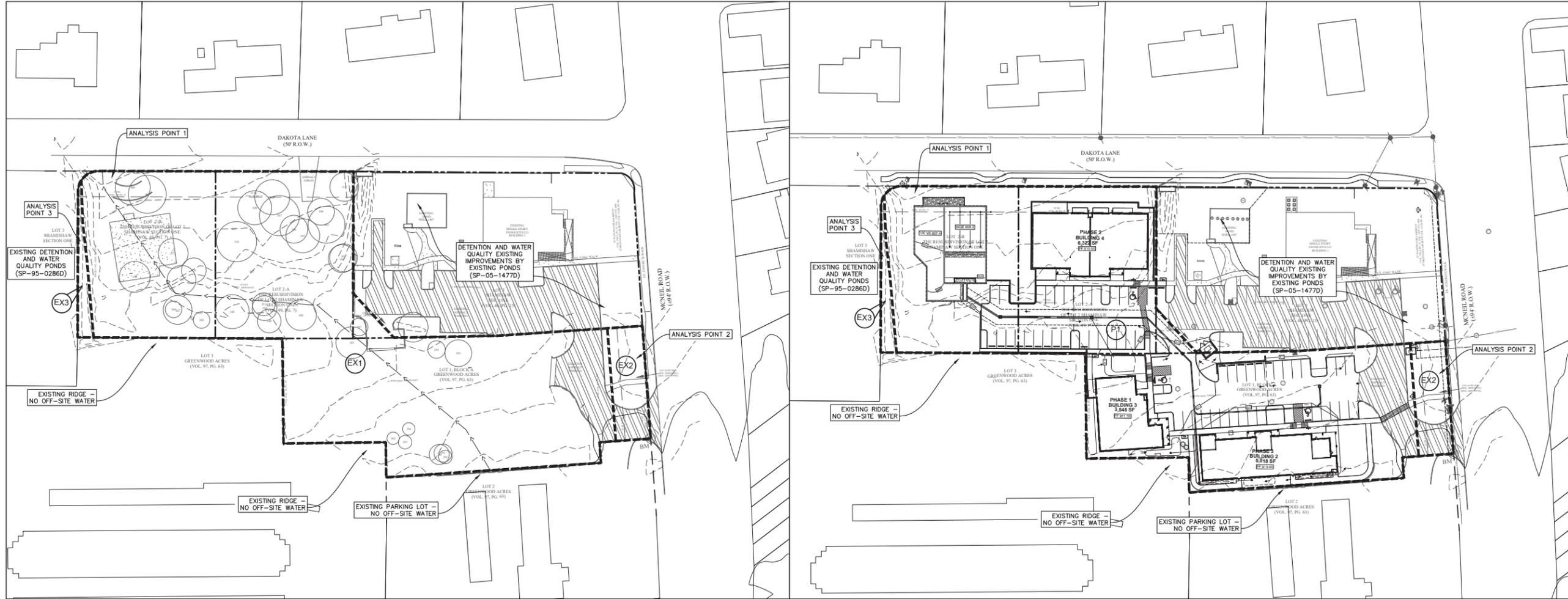
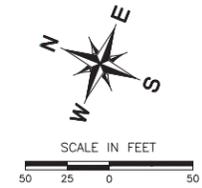
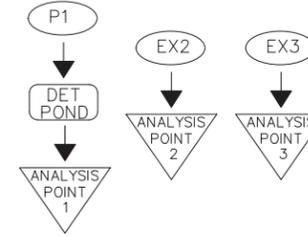
EXISTING CONDITIONS



SCS METHOD SUMMARY										
Area ID	DA (ac.)	IC (ac.)	IC (%)	TOC (min.)	TOC (hr.)	CN	Q2	Q10	Q25	Q100
EX1	1.89	0.19	10%	10	0.17	81.8	2.9	6.9	9.3	13.3
EX2	0.09	0.03	40%	5	0.08	87.2	0.2	0.4	0.5	0.7
EX3	0.01	0.00	0%	5	0.08	80.0	0.0	0.0	0.1	0.1
P1	1.89	1.23	65%	7	0.12	91.7	4.6	9.0	11.5	15.5
CN: D Type Good Condition:						80				
Impervious Cover:						98				

ANALYSIS POINT 1 SUMMARY FLOW SUMMARY (CFS)				
	2 YR	10 YR	25 YR	100 YR
ANALYSIS POINT 1				
EXISTING	2.9	6.9	9.3	13.3
PROPOSED	2.6	6.7	9.0	12.8

PROPOSED CONDITIONS



No.	Date	Revisions	App.



MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

OVERALL DRAINAGE
AREA MAPS

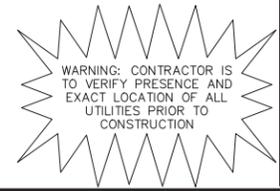
DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

NOTE:
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY OF AUSTIN.

SITE PLAN APPROVAL SHEET 16 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.#970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO
Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3
Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.



Scale: AS SHOWN
Designed by:
Drawn by:
Checked by:
Date: NOVEMBER 2021
Project No.
SHEET 16 OF 37
SP-2019-0564C

TEKAS FIRM REGISTRATION F4832
P.O. BOX 7630
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4882
FAX (512) 350-7882
PROFESSIONAL SERVICES, INC.
360
SCOTT J. FOSTER
84852
LICENSED PROFESSIONAL ENGINEER
1/8/2020
MCNEIL DRIVE MEDICAL CENTER 6500 MCNEIL DRIVE AUSTIN, TEXAS
OVERALL DRAINAGE AREA MAPS
DEVELOPMENT PERMIT NO. SP-2019-0564C
I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.
NOTE:
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY OF AUSTIN.
SHEET 16 OF 37
SP-2019-0564C
CITY OF AUSTIN
APPROVED
Date 2/27/2021
LAYOUT: Sheet
PLOT DATE: 11/9/2020 11:41am
PLOT BY: jmf

ATTACHMENT I

INSPECTION AND MAINTENANCE FOR TEMPORARY BMPs

SILT FENCE

- Inspections: Inspections shall be made weekly or after each rainfall event and repair or replacement shall be made promptly as needed.
- Sediment Removal: Accumulated silt shall be removed when it reaches a depth of 150mm (6 inches). The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

STORM DRAIN INLET PROTECTION

- Inspections shall be made weekly and after each rainfall. Repair or replacement shall be made promptly by the contractor.
- Sediment shall be removed when buildup reaches a depth of 3 inches. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- Devices shall be checked periodically to ensure proper placement to prevent gaps between device and curb.
- Inspections shall be made for filter fabric and patch. Replacements shall be made if torn or missing.

Inlet protection devices and structures shall be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

STABILIZED CONSTRUCTION ENTRANCE

- Maintenance: The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public roadway. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately.

The stabilized construction entrance will be removed once the driveway to the proposed site is complete.

ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Per City of Austin Environmental Criteria Manual, the vegetative stabilization of areas disturbed by construction shall be as follows:

TEMPORARY VEGETATIVE STABILIZATION:

1. From September 15 to March 1, seeding shall be with or include a cool season cover crop: (Western Wheatgrass (*Pascopyrum smithii*) at 5.6 pounds per acre, Oats (*Avena sativa*) at 4.0 pounds per acre, Cereal Rye Grain (*Secale cereale*) at 45 pounds per acre. Contractor must ensure that any seed application requiring a cool season cover crop does not utilize annual ryegrass (*Lolium multiflorum*) or perennial ryegrass (*Lolium perenne*). Cool season cover crops are not permanent erosion control.
2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre or a native plant seed mix conforming to Item 604S or 609S.
 - A. Fertilizer shall be applied only if warranted by a soil test and shall conform to Item No. 606S, Fertilizer. Fertilization should not occur when rainfall is expected or during slow plant growth or dormancy. Chemical fertilizer may not be applied in the Critical Water Quality Zone.
 - B. Hydromulch shall comply with Table 1, below.
 - C. Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95% total coverage so that all areas of a site that rely on vegetation for temporary stabilization are uniformly vegetated, and provided there are no bare spots larger than 10 square feet.
 - D. When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, and Standard Specification 604S or 609S.

Table 1: Hydromulching for Temporary Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
100% or any blend of wood, cellulose, straw, and/or cotton plant material (except no mulch shall exceed 30% paper)	70% or greater Wood/Straw 30% or less Paper or Natural Fibers	0—3 months	Moderate slopes; from flat to 3:1	1,500 to 2,000 lbs per acre

PERMANENT VEGETATIVE STABILIZATION:

1. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall be mowed to a height of less than one-half (½) inch and the area shall be re-seeded in accordance with Table 2 below. Alternatively, the cool season cover crop can be mixed with Bermudagrass or native seed and installed together, understanding that germination of warm-season seed typically requires soil temperatures of 60 to 70 degrees.
2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre with a purity of 95% and a minimum pure live seed (PLS) of 0.83. Bermuda grass is a warm season grass and is considered permanent erosion control. Permanent vegetative stabilization can also be accomplished with a native plant seed mix conforming to Item 604S or 609S.

- A. Fertilizer use shall follow the recommendation of a soil test. See Item 606S, Fertilizer. Applications of fertilizer (and pesticide) on City-owned and managed property requires the yearly submittal of a Pesticide and Fertilizer Application Record, along with a current copy of the applicator's license. For current copy of the record template contact the City of Austin's IPM Coordinator.
- B. Hydromulch shall comply with Table 2, below.
- C. Water the seeded areas immediately after installation to achieve germination and a healthy stand of plants that can ultimately survive without supplemental water. Apply the water uniformly to the planted areas without causing displacement or erosion of the materials or soil. Maintain the seedbed in a moist condition favorable for plant growth. All watering shall comply with City Code Chapter 6-4 (Water Conservation), at rates and frequencies determined by a licensed irrigator or other qualified professional, and as allowed by the Austin Water Utility and current water restrictions and water conservation initiatives.
- D. Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95 percent for the non-native mix, and 95 percent coverage for the native mix so that all areas of a site that rely on vegetation for stability must be uniformly vegetated, and provided there are no bare spots larger than 10 square feet.
- E. When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, Items 604S and 609S.

Table 2: Hydromulching for Permanent Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers			
10% Tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2,500 to 4,000 lbs per acre (see manufacturers recommendations)	
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers 25% Reinforcing Fibers or less 10% Tackifier	Up to 12 months	On slopes up to 1:1 and erosive soil conditions	3,000 to 4,500 lbs per acre (see manufacturers recommendations)

V. PERMANENT STORMWATER SECTION (TCEQ-0600)

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)(li), (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: Scott J. Foster, P.E.

Date: 6/29/23

Signature of Customer/Agent



Regulated Entity Name: McNeil Drive Medical Center

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: City of Austin Criteria Manuals

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

ATTACHMENT B
BMPS FOR UPGRADIENT STORMWATER

Due to the existing roadways along the north and east and existing ridge along the west and south,
no upgradient storm water is expected to drain to the subject site

ATTACHMENT C
BMPS FOR ON-SITE STORMWATER

Water quality and detention facilities, designed in accordance with TCEQ and City of Austin requirements, are proposed for this development. These facilities provide for the required structural and water quality controls for 1.23 acres of impervious cover (65%). The actual impervious cover is 1.12 acres (57%). All remaining capacity is provided to allow for incidental deviations from the plans and future modifications/additions to the plans. Below is summary of TCEQ and City of Austin requirements and the provided improvements.

	Min. Water Quality Volume (cf)	Min. Filtration Basin Area (sf)	Min. Sedimentation Basin Volume (cf)
TCEQ	2,679	223	N/A
City of Austin	6,503	864	1,301
Provided	6,904	1760	2,040

All TCEQ and City of Austin criteria has been met and/or exceeded.
Refer to the attached TCEQ calculations and construction plans for more information.

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

$L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

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

County =	Travis	
Total project area included in plan =	1.98	acres
Predevelopment impervious area within the limits of the plan =	0.22	acres
Total post-development impervious area within the limits of the plan =	1.12	acres
Total post-development impervious cover fraction =	0.57	
P =	32	inches

$L_{M \text{ TOTAL PROJECT}}$ = 783 lbs.

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

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

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

Drainage Basin/Outfall Area No. =	1	
Total drainage basin/outfall area =	1.89	acres
Predevelopment impervious area within drainage basin/outfall area =	0.29	acres
Post-development impervious area within drainage basin/outfall area =	1.23	acres
Post-development impervious fraction within drainage basin/outfall area =	0.65	
$L_{M \text{ THIS BASIN}}$ =	818	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Sand Filter
Removal efficiency = 89 percent

- Aqualogic Cartridge Filter
- Bioretention
- Contech StormFilter
- Constructed Wetland
- Extended Detention
- Grassy Swale
- Retention / Irrigation
- Sand Filter
- Stormceptor
- Vegetated Filter Strips
- Vortechs
- Wet Basin
- Wet Vault



6/29/23

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

RG-348 Page 3-33 Equation 3.7: $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where:

A_C = Total On-Site drainage area in the BMP catchment area
 A_i = Impervious area proposed in the BMP catchment area
 A_p = Pervious area remaining in the BMP catchment area
 L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = 1.98 acres
 A_i = 1.23 acres
 A_p = 0.75 acres
 L_R = 1224 lbs

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

Desired $L_{M \text{ THIS BASIN}}$ = 818 lbs.

F = 0.67

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 = 0.71 inches
Post Development Runoff Coefficient = 0.44
On-site Water Quality Volume = 2232 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
Off-site Runoff Coefficient = 0.00
Off-site Water Quality Volume = 0 cubic feet

Storage for Sediment = 446

Total Capture Volume (required water quality volume(s) x 1.20) = 2679 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate = 0.1 in/hr Enter determined permeability rate or assumed value of 0.1
Irrigation area = NA square feet
NA acres

8. Extended Detention Basin System Designed as Required in RG-348 Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = **NA** cubic feet

9. Filter area for Sand Filters Designed as Required in RG-348 Pages 3-58 to 3-63

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = **2679** cubic feet
Minimum filter basin area = **124** square feet
Maximum sedimentation basin area = **1116** square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = **279** square feet For maximum water depth of 8 feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = **2679** cubic feet
Minimum filter basin area = **223** square feet
Maximum sedimentation basin area = **893** square feet For minimum water depth of 2 feet
Minimum sedimentation basin area = **56** square feet For maximum water depth of 8 feet

10. Bioretention System Designed as Required in RG-348 Pages 3-63 to 3-65

Required Water Quality Volume for Bioretention Basin = **NA** cubic feet

11. Wet Basins Designed as Required in RG-348 Pages 3-66 to 3-71

Required capacity of Permanent Pool = **NA** cubic feet Permanent Pool Capacity is 1.20 times the WQV
Required capacity at WQV Elevation = **NA** cubic feet Total Capacity should be the Permanent Pool Capacity plus a second WQV.

12. Constructed Wetlands Designed as Required in RG-348 Pages 3-71 to 3-73

Required Water Quality Volume for Constructed Wetlands = **NA** cubic feet

13. AquaLogic™ Cartridge System Designed as Required in RG-348 Pages 3-74 to 3-78

** 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with maintenance contract with AquaLogic™.

Required Sedimentation chamber capacity = **NA** cubic feet
Filter canisters (FCs) to treat WQV = **NA** cartridges
Filter basin area (RIA_F) = **NA** square feet

**ATTACHMENT F
CONSTRUCTION PLANS**

DATE OF SUBMITTAL: 12/10/2019

OWNERS NAME AND ADDRESS
D'ABADIE FAMILY PARTNERSHIP, LTD.
11516 BRANDAN PARK TRAIL
AUSTIN, TX 78750

PROJECT ADDRESS
6500 McNEIL DRIVE
AUSTIN, TEXAS 78729

LEGAL DESCRIPTION

LOT 1, BLOCK A, GREENWOOD ACRES (THE PLACE FOR ME), A SUBDIVISION IN TRAVIS COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN VOLUME 97, PAGE 63, PLAT RECORDS OF TRAVIS COUNTY, TEXAS.

LOTS 2A AND 2B, THE RESUBDIVISION OF LOT 2 SHAMINAW SECTION ONE, A SUBDIVISION IN TRAVIS COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN VOLUME 49, PAGE 7, PLAT RECORDS OF TRAVIS COUNTY, TEXAS.

LOT 1 SHAMINAW SECTION ONE, A SUBDIVISION IN TRAVIS COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF, RECORDED IN VOLUME 46, PAGE 15, PLAT RECORDS OF TRAVIS COUNTY, TEXAS.

SITE AREA:

LOT 1 GREENWOOD: 0.98 ACRES
LOT 1 SHAMINAW: 1.00 ACRES
LOT 2A SHAMINAW: 0.50 ACRES
LOT 2B SHAMINAW: 0.50 ACRES
2.98 ACRES

ZONING:

LOT 1 GREENWOOD AND LOT 1 SHAMINAW: GO-CO
LOTS 2A AND 2B: LO-CO

WATERSHED: RATTAN AND WALNUT CREEK (SUBURBAN)

EDWARD'S AQUIFER: SITE IS WITHIN THE RECHARGE ZONE

RELATED CASES:

SP-01-0326C
SP-05-1477C

GENERAL PLAN NOTES:

- 1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE REGISTERED PROFESSIONAL ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. NO PORTION OF THIS SITE LIES WITHIN THE 100-YEAR FLOODPLAIN, AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48453C0235J, DATED JANUARY 6, 2016, FOR TRAVIS COUNTY, TEXAS AND INCORPORATED AREAS.
3. WATER AND WASTEWATER SERVICE TO BE PROVIDED BY THE CITY OF AUSTIN.
4. THERE ARE NO CRITICAL ENVIRONMENTAL FEATURES ON SITE.
5. RELEASE OF THE APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICANT IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.
6. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATIONS ONLY. APPROVAL BY OTHER GOVERNMENTAL ENTITIES MAY BE REQUIRED PRIOR TO THE START OF CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR DETERMINING WHAT ADDITIONAL APPROVALS MAY BE NECESSARY.
7. THIS SITE PLAN IS SUBJECT TO SUBCHAPTER E OF THE LAND DEVELOPMENT CODE (COMMERCIAL DESIGN STANDARDS).
8. COMPLIANCE WITH THE COMMERCIAL AND MULTI-FAMILY RECYCLING ORDINANCE IS MANDATORY FOR MULTI-FAMILY RESIDENTIAL COMPLEXES, BUSINESSES AND OFFICE BUILDINGS.
9. CONTRACTOR SHALL NOTIFY THE CITY OF AUSTIN - SITE & SUBDIVISION DIVISION TO SUBMIT REQUIRED DOCUMENTATION, PAY CONSTRUCTION INSPECTION FEES, AND TO SCHEDULE THE REQUIRED SITE AND SUBDIVISION PRE-CONSTRUCTION MEETING. THIS MEETING MUST BE HELD PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE R.O.W. OR PUBLIC EASEMENTS. PLEASE VISIT HTTP://AUSTINTEXAS.GOV/PAGE/COMMERCIAL-SITE-AND-SUBDIVISION-INSPECTIONS FOR A LIST OF SUBMITTAL REQUIREMENTS, FEE CALCULATIONS, AND TO ARRANGE PAYMENT OF INSPECTION FEES.
10. THIS NOTE IS BEING PLACED ON THE PLAN SET IN THE ABSENCE OF A TEMPORARY TRAFFIC CONTROL STRATEGY WITH THE FULL UNDERSTANDING THAT, AT A MINIMUM OF 6 WEEKS PRIOR TO THE START OF CONSTRUCTION, A TEMPORARY TRAFFIC CONTROL PLAN MUST BE REVIEWED AND APPROVED BY RIGHT OF WAY MANAGEMENT DIVISION. STANDARD DETAILS ARE NOT A TRAFFIC CONTROL PLAN. THE OWNER/REPRESENTATIVE FURTHER RECOGNIZES THAT A REVIEW FEE, AS PRESCRIBED BY THE MOST CURRENT VERSION OF THE CITY'S FEE ORDINANCE, SHALL BE PAID EACH TIME A PLAN OR PLAN REVISION IS SUBMITTED TO RIGHT OF WAY MANAGEMENT DIVISION FOR REVIEW. THE FOLLOWING MUST BE TAKEN INTO CONSIDERATION WHEN DEVELOPING FUTURE TRAFFIC CONTROL STRATEGIES:
10.1. PEDESTRIAN AND BICYCLE TRAFFIC ACCESS MUST BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE AUTHORIZED BY RIGHT OF WAY MANAGEMENT.
10.2. NO LONG-TERM LANE CLOSURES WILL BE AUTHORIZED, UNLESS RIGHT OF WAY MANAGEMENT DETERMINES THAT ADEQUATE ACCOMMODATIONS HAVE BEEN MADE TO MINIMIZE TRAFFIC IMPACT.
10.3. PROJECT SHOULD BE PHASED SO THAT UTILITY INSTALLATION MINIMALLY IMPACTS EXISTING OR TEMPORARY PEDESTRIAN FACILITIES.
11. THIS PROJECT IS COMPRISED OF MULTIPLE LOTS. IT HAS BEEN APPROVED AS ONE COHESIVE DEVELOPMENT. IF PORTIONS OF THE LOT ARE SOLD, APPLICATION FOR SUBDIVISION AND SITE PLAN APPROVAL MAY BE REQUIRED. A RESTRICTIVE COVENANT HAS BEEN RECORDED FOR THIS SITE AS DOCUMENT #2002019593. AN AMENDMENT NUMBER ONE TO THE RESTRICTIVE COVENANT WAS RECORDED AS DOCUMENT #2021036923
12. THE DETENTION AND WATER QUALITY PONDS FOR THIS PROJECT ARE PRIVATE AND WILL BE PRIVATELY MAINTAINED. FOR MAINTENANCE OF THE WATER QUALITY AND DETENTION FACILITIES, SEE AGREEMENT FILED IN DOCUMENT #2021036923, OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS. THE SITE IS SUBJECT TO THIS DOCUMENT FOR DRAINAGE PURPOSES AND IF PORTIONS OF THE LOT ARE SOLD, APPLICATION FOR SUBDIVISION AND SITE PLAN MAY BE REQUIRED.
13. THIS PROJECT IS SUBJECT TO THE VOID AND WATER FLOW MITIGATION RULE (COA ECM 1.12.0 AND COA ITEM NO. 658S OF THE SSM) PROVISION THAT ALL TRENCHING GREATER THAN 5 FEET DEEP MUST BE INSPECTED BY A GEOLOGIST (TEXAS P.G.) OR A GEOLOGIST'S REPRESENTATIVE.
14. THE DISTURBED AREAS WITHIN THIS PROJECT SHALL BE REVEGETATED AND ALL PERMANENT EROSION/SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE RELEASE OF FISCAL SURETY FOR THAT PHASE. TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE ADJUSTED AS NEEDED PRIOR TO THIS RELEASE TO ENSURE THAT SUBSEQUENT PHASE DISTURBED AREAS ARE ADEQUATELY COVERED. ANY AREA WITHIN THE LIMIT OF DISTURBANCE OF THE PROJECT WHICH IS NOT ADEQUATELY REVEGETATED SHALL BE BROUGHT INTO COMPLIANCE PRIOR TO THE RELEASE OF THE FINAL PHASE.

ENGINEER'S CERTIFICATION:

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER A OF THE LAND DEVELOPMENT CODE.



SCOTT J. FOSTER
84652
LICENSED PROFESSIONAL ENGINEER
360 PROFESSIONAL SERVICES, INC.
P.O. BOX 3639
CEDAR PARK, TEXAS 78630

SURVEYOR:

ALLSTAR LAND SURVEYING
9020 ANDERSON MILL ROAD
AUSTIN, TEXAS
PHONE (512) 249-8149
CONTACT: EDWARD RUMSEY, R.P.L.S.

ARCHITECT:

FAZO ARCHITECTS
308-B CONGRESS AVE
AUSTIN, TX 78701
PHONE: (512) 494-9041
CONTACT: KEITH GREGG

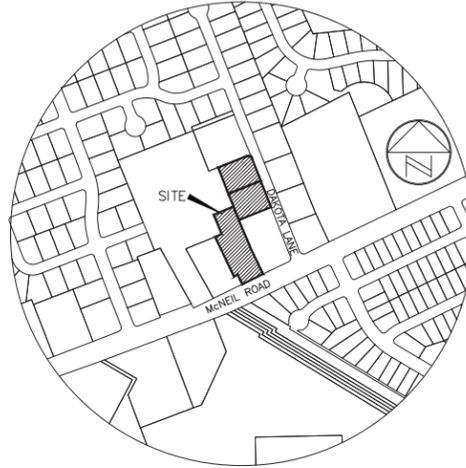
LANDSCAPE ARCHITECT:

STUDIO 16:19
1717 N. IH 35, SUITE 308
AUSTIN, TX 78664
PHONE (512) 534-8680
CONTACT: BRAD SIMS

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 3 MEDICAL AND PROFESSIONAL OFFICES AND AN EXISTING MEDICAL BUILDING, TOTALING 19,805 GSF WITH ASSOCIATED DRIVES, UTILITIES, LANDSCAPING, AND WATER QUALITY/RETENTION IMPROVEMENTS. THE TOTAL IMPERVIOUS COVER IS 62%.

CONSOLIDATED SITE PLAN FOR McNEIL DRIVE MEDICAL CENTER



LOCATION MAP
NOT TO SCALE
CITY GRID: H37
MAPSCO: 4342

6500 McNEIL DRIVE
AUSTIN, TEXAS 78729
DECEMBER 2019

FO/OM INFORMATION

PROJECT JURISDICTION: AUSTIN FULL PURPOSE
CITY NAME: CITY OF AUSTIN
INSPECTION REQUIRED FOR: WATER AND WASTEWATER
MAINTENANCE REQUIRED FOR: WATER AND WASTEWATER
SPECIAL NOTES:

APPROVED BY:

Jeremy Siltala
DEVELOPMENT SERVICES DEPARTMENT
AUSTIN WATER
CITY OF AUSTIN FIRE DEPARTMENT
CITY OF AUSTIN INDUSTRIAL WASTE
2/27/2021
DATE
FO/OM
12/09/2020
DATE
12/16/2020
DATE
12/15/2020
DATE

Table with 2 columns: Austin Fire Department and details including Fire Design Standards, Fire Flow Demand, Intended Use, Construction Classification, Building Fire Area, Automatic Fire Sprinkler System, Reduced Fire Flow Demand, Fire Hydrant Flow Test, Fire Hydrant Flow Test Location, High-Rise, Alternative Method of Compliance.

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

THIS PROJECT HAS PRIVATE HYDRANT 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 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 1 PRIVATE HYDRANT.

REVISIONS/CORRECTIONS

Table with 7 columns: No., DESCRIPTION, REVISE (R) DELETE (D) ADD (A), TOTAL SHEETS IN PLAN, NET CHANGE IMPERV. COVER, SITE IMPERV. COVER, % IMP. COVER, APPROVAL DATE.

Sheet List Table with 2 columns: Sheet Number, Sheet Title. Lists sheets from AW 01 to AW 37, including COVER SHEET, FINAL PLAT, GENERAL NOTES, AUSTIN WATER GENERAL INFORMATION AND CONSTRUCTION NOTES, etc.

SITE PLAN APPROVAL SHEET 01 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81.DC) 2/27/2024 CASE MANAGER J. SILTALA
PROJECT EXPIRATION DATE (ORD.0970905-A) DWPZ DDZ X
Jeremy Siltala, for
Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: 2/27/2021 ZONING LO AND GO
Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3
Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

GENERAL NOTES:

- 1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, AS APPLIES, WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
2. CONTRACTOR SHALL CALL THE ONE CALL CENTER, 1-800-245-4545 OR 1-800-545-6005, OR DIG TESS, 1-800-344-8377 FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
3. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION AT LEAST 24 HOURS PRIOR TO INSTALLATION OF A FACILITY WITHIN A DRAINAGE EASEMENT OR STREET R.O.W. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S R.O.W. MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
4. FOR SLOPES OR TRENCHES GREATER THAN FIVE (5) FEET IN DEPTH, ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, OSHA STANDARDS FROM THE GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN, TEXAS.
5. ALL SITE WORK SHALL COMPLY WITH ENVIRONMENTAL REQUIREMENTS SET FORTH IN THE CITY OF AUSTIN CODES AND REGULATIONS.
6. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY BY THE CITY OF AUSTIN, THE ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.
7. DEVELOPER INFORMATION.
A. OWNER: D'ABADIE FAMILY PARTNERSHIP, LTD. ATTN: JUSTIN D'ABADIE ADDRESS: 11518 BRANDAN PARKE TRAIL AUSTIN, TX 78750 PHONE NO.: 512-331-1477
B. DEVELOPER: D'ABADIE FAMILY PARTNERSHIP, LTD. ATTN: JUSTIN D'ABADIE ADDRESS: 11518 BRANDAN PARKE TRAIL AUSTIN, TX 78750 PHONE NO.: 512-331-1477
C. OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS. ATTN: SCOTT J. FOSTER, P.E. 360 PROFESSIONAL SERVICES, INC. PHONE NO.: 512-334-4682
D. PERSON OR FIRM RESPONSIBLE FOR EROSION & SEDIMENTATION CONTROL MAINTENANCE. ATTN: JUSTIN D'ABADIE ADDRESS: 11518 BRANDAN PARKE TRAIL AUSTIN, TX 78750 PHONE NO.: 512-331-1477
E. PERSON OR FIRM RESPONSIBLE FOR TREE, NATURAL AREA CONTROL MAINTENANCE. ATTN: JUSTIN D'ABADIE ADDRESS: 11518 BRANDAN PARKE TRAIL AUSTIN, TX 78750 PHONE NO.: 512-331-1477
8. ALL CONSTRUCTION SHALL COMPLY WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS, AS AMENDED BY SPECIAL PROVISION, CURRENT AT THE TIME OF BIDDING.
9. CONTRACTOR TO TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OPERATIONS TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
10. CONTRACTOR TO GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION PERMITS THAT CAN ONLY BE ISSUED TO THE CONTRACTOR HAVE BEEN OBTAINED BY THE CONTRACTOR AT ITS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
11. CONTRACTOR TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIAL INCLUDING METHODS OF HANDLING AND DISPOSAL.
12. IF REQUIRED, CONTRACTOR TO COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
13. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS WAS COMPILED FROM RECORD INFORMATION. NO WARRANTY IS IMPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES.
14. WHEN UNLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING, OR A BREAK LOCATED IN THE LINE, OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN NECESSARY DIRECTIONS. COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
15. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS, AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO OWNER.
16. CONTRACTOR TO CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES. (NO SEPARATE PAY)
17. THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR TO ENSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED.
18. THESE PLANS, PREPARED BY 360 PROFESSIONAL SERVICES, INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF 360 PROFESSIONAL SERVICES, INC.'S LICENSED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR IS TO PREPARE AND OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE, REGULAR SESSION.
19. TRAFFIC CONTROLS TO BE CONTRACTOR'S RESPONSIBILITY AND INSTALLED IN ACCORDANCE WITH THE CITY OF AUSTIN. ADDITIONALLY, THE CONTRACTOR IS TO SCHEDULE THE WORK AND TRAFFIC CONTROLS TO ACHIEVE THE FOLLOWING TRAFFIC GUIDELINES:
ATTN: MINIMUM OF ONE ACCESS POINT TO THE SITE TO REMAIN OPEN AT ALL TIMES. MINIMUM OF ONE LANE WITHIN THE ADJACENT EXISTING EASEMENTS TO REMAIN OPEN AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING LANE CLOSURES WITH OWNER.
20. CONTRACTOR TO EXERCISE CAUTION DURING CONSTRUCTION NEAR AND AROUND GAS LINES. NOTIFY GAS COMPANY 24 HOURS PRIOR TO CONSTRUCTION.
21. NO BLASTING IS ALLOWED ON THIS PROJECT.
22. BURNING IS NOT ALLOWED ON THIS PROJECT.
23. CONTRACTOR TO INSTALL 1/2-INCH-DIAMETER BY 12-INCH-LONG REBAR VERTICALLY, WITH TWO (2) FEET OF SURVEYOR'S RIBBON ATTACHED AT END OF ALL PIPE STUBS. TOP OF BAR TO BE NOT LESS THAN 12 INCHES ABOVE THE FINISHED GRADE.
A. BLUE RIBBON - WATER LINE
B. GREEN RIBBON - WASTEWATER LINE
C. YELLOW RIBBON - GAS LINE
D. ORANGE RIBBON - TELECOM DUCT BANK
E. RED RIBBON - ELECTRICAL DUCT BANK
24. MAKE CONNECTION BETWEEN NEW AND EXISTING ASPHALT STREETS BY REMOVING EXISTING ASPHALT FROM END BACK UNTIL FULL DEPTH BASE AND HMAc ARE ENCOUNTERED AND HMAc APPEARS TO BE IN SOUND CONDITION. PROVIDE EXPANSION JOINT AND DOWELS WHEN CONNECTING EXISTING CURB TO NEW CURB.
25. A CURB LAYDOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
26. UNLESS OCCURRING AT AN EXPANSION JOINT, MAKE CONNECTION BETWEEN NEW AND EXISTING SIDEWALK BY EXPOSING AND CLEANING A ONE-FOOT LENGTH OF WELDED WIRE REINFORCEMENT AND LAPPING NEW REINFORCEMENT ONTO THIS LENGTH.
27. CONCRETE FOR SITE WORK, OTHER THAN CONCRETE PAVEMENT AND STRUCTURES, TO BE CLASS "A" (5 SACK, 3000 PSI @ 28-DAYS) AND ALL REINFORCING STEEL TO BE ASTM A615 60, UNLESS OTHERWISE NOTED. REFER TO GEOTECHNICAL REPORT AND ARCHITECTURAL DRAWINGS FOR PAVEMENT STRUCTURAL SPECIFICATIONS.
28. TREE SURVEY, CONTOURS, AND BENCHMARK INFORMATION SUPPLIED BY OTHERS. ACTUAL LOCATION OF TREES AND ELEVATION OF NATURAL GROUND ON THE PROJECT SITE MAY VARY FROM WHAT IS DEPICTED ON THE PLAN SHEETS. 360 PROFESSIONAL SERVICES, INC., IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION REGARDING SURVEYS OR BENCHMARK LOCATIONS.
BENCHMARKS ARE AS FOLLOWS: SEE EXISTING CONDITIONS AND DEMOLITION PLAN
29. DEMOLITION PERMITS (IF NEEDED) ARE TO BE OBTAINED BY THE CONTRACTOR AT THEIR EXPENSE.
30. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE GEOTECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN INCLUDING, BUT NOT LIMITED TO, PAVING RECOMMENDATIONS, SUBGRADE PREPARATIONS, PILE INSTALLATION PROCEDURES, GROUND WATER MANAGEMENT AND STEEP SLOPE BEST MANAGEMENT PRACTICES
31. CONTRACTOR TO FIELD VERIFY LOCATION AND FLOWLINES OF EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITY. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
32. PUMPING OF STORM WATER FROM EXCAVATIONS IS PROHIBITED UNLESS THE STORM WATER IS DISCHARGED TO ENCOURAGE SHEET/OVERLAND FLOW. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
33. UNLESS OTHERWISE NOTED, STORM SEWERS TO BE 6"-18" SD15 PVC, 18" AND GREATER, RCP ASTM-C78 CLASS B. ALL PUBLIC STORM SEWER TO BE RCP ASTM-C78.
34. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT IN TOTAL AREA, AND/OR FROM WHICH WATER, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY CONTACT A CITY OF AUSTIN INSPECTOR FOR FURTHER INVESTIGATION.
35. UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION RELEASE BY THE CITY, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DRAINAGE FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH APPROVED PLANS.

ECM APPENDIX P-1 - EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTIVE FENCING, AND CONDUCT "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING) OR NATIVE PLANTING PROCEDURES.
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE COA ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR THE EROSION/SEDIMENTATION CONTROL PLAN. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY COA EV REVIEWERS AS WELL AS PRE-CONSTRUCTION MEETING.
3. PLAN SHEETS SUBMITTED TO THE CITY OF AUSTIN MUST SHOW THE FOLLOWING:
✓ DIRECTION OF FLOW DURING GRADING OPERATIONS.
✓ LOCATION, DESCRIPTION, AND CALCULATIONS FOR OFF-SITE FLOW DIVERSION STRUCTURES.
✓ AREAS THAT WILL NOT BE DISTURBED; NATURAL FEATURES TO BE PRESERVED.
✓ DELINEATION OF CONTRIBUTING DRAINAGE AREA TO EACH PROPOSED BMP (E.G., SILT FENCE, SEDIMENT BASIN, ETC.).
✓ LOCATION AND TYPE OF E&S BMPs FOR EACH PHASE OF DISTURBANCE.
✓ CALCULATIONS FOR BMPs AS REQUIRED.
✓ LOCATION AND DESCRIPTION OF TEMPORARY STABILIZATION MEASURES.
✓ LOCATION OF ON-SITE SPOILS, DESCRIPTION OF HANDLING AND DISPOSAL OF BORROW MATERIALS, AND DESCRIPTION OF ON-SITE PERMANENT SPOILS DISPOSAL AREAS, INCLUDING DEPTH OF FILL AND EROSION/SEDIMENTATION CONTROL PLAN.
✓ DESCRIBE SEQUENCE OF CONSTRUCTION AS IT PERTAINS TO ESC INCLUDING THE FOLLOWING ELEMENTS:
1. INSTALLATION SEQUENCE OF CONTROLS (E.G. PERMETER CONTROLS, THEN SEDIMENT BASINS, THEN TEMPORARY STABILIZATION, THEN PERMANENT, ETC.)
2. PROJECT PHASING IF REQUIRED (LOC GREATER THAN 25 ACRES)
3. SEQUENCE OF GRADING OPERATIONS AND NOTATION OF TEMPORARY STABILIZATION MEASURES TO BE USED
4. SCHEDULE FOR CONSTRUCTING TEMPORARY BASINS TO PERMANENT WQ CONTROLS
5. SCHEDULE FOR REMOVAL OF TEMPORARY CONTROLS
6. ANTICIPATED MAINTENANCE SCHEDULE FOR TEMPORARY CONTROLS
3.1 MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL
3.2 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT
3.3 STABILIZE SOILS TO PREVENT EROSION AND ENHANCE SOIL QUALITY
3.4 PROTECT SLOPES
3.5 PROTECT STORM DRAIN INLETS
3.6 ESTABLISH PERMETER CONTROLS AND SEDIMENT BARRIERS
3.7 RETAIN SEDIMENT ON-SITE AND CONTROL DETERIORATING PRACTICES
3.8 ESTABLISH STABILIZED CONSTRUCTION EXITS
3.9 ANY ADDITIONAL BMPs
--- NOTE THE LOCATION OF EACH BMP ON YOUR SITE MAP(S).
FOR ANY STRUCTURAL BMPs, YOU SHOULD PROVIDE DESIGN SPECIFICATIONS AND DETAILS AND REFER TO THEM.
FOR MORE INFORMATION, SEE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL 1.4.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, ENVIRONMENTAL INSPECTOR, AND THE CITY OF AUSTIN ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS, TREE/NATURAL AREA PROTECTION MEASURES AND "PRE-CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE) PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE OWNER OR OWNER'S REPRESENTATIVE SHALL ATTEND. THE CONFERENCE SHALL BE HELD AT 512-974-2278 OR BY EMAIL AT ENVIRONMENTAL.INSPECTIONS@AUSTIN.TX.GOV. AT LEAST THREE DAYS PRIOR TO THE MEETING DATE. COA APPROVED ESC PLAN AND TDEES SWPPP (IF REQUIRED) SHOULD BE REVIEWED BY COA EV INSPECTOR AT THIS TIME.
5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY AUTHORIZED COA STAFF. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
6. THE CONTRACTOR IS REQUIRED TO PROVIDE A CERTIFIED INSPECTOR THAT IS EITHER A LICENSED ENGINEER (OR PERSON DIRECTLY SUPERVISED BY THE LICENSED ENGINEER) OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC OR CPESC - ID), CERTIFIED EROSION, SEDIMENT AND STORMWATER INSPECTOR (CESSM OR CESSM - ID) OR CERTIFIED INSPECTOR OF EROSION AND EROSION CONTROLS (CISEC OR CISEC - IT) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY OR BI-WEEKLY INTERVALS AND AFTER ONE-HALF (1/2) INCHES OF RAIN OR AFTER 24 HOURS OF CONSTRUCTION. THE INSPECTOR MUST FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. WHEN ONE-HALF (1/2) OF THE INSTALLED HEIGHT OF THE CONTROL WHICHEVER IS LESS.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HALL ROADS AND WATERWAY CROSSINGS CONSIDERING TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED AT AN APPROVED SPOIL DISPOSAL SITE.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS: ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF AUSTIN ENVIRONMENTAL INSPECTOR FOR FURTHER INVESTIGATION.
9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 603.5(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES.
• TOPSOIL SALVAGED FROM THE EXISTING SITE IS ENCOURAGED FOR USE, BUT IT SHOULD MEET THE STANDARDS SET FORTH IN THIS SPEC.
• AN OWNED ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE CRITERIA OF STANDARD SPECIFICATION 601S BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRICULTURE INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.
• SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.
THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:
TEMPORARY VEGETATIVE STABILIZATION
1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH OR INCLUDE A COOL SEASON COVER CROP: (WESTERN WHITGRASS (PASCOOPYRUM SMITHI) AT 5.6 POUNDS PER ACRE, OATS (Avena sativa) AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAM (SECALAE CEREALE) AT 45 POUNDS PER ACRE. CONTRACTOR MUST ENSURE THAT ANY SEED APPLICATION REQUIRING A COOL SEASON COVER CROP DOES NOT UTILIZE ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) OR PERENNIAL RYEGRASS (LOLIUM PERENNE). COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.
A. FERTILIZER SHALL APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 606S, FERTILIZER. FERTILIZATION SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT APPLY TO THE CRITICAL WATER QUALITY ZONE.
B. HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.
C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 1/2 INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
D. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATION 604S OR 609S.
TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

Table with 5 columns: MATERIAL, DESCRIPTION, LONGEVITY, TYPICAL APPLICATIONS, APPLICATION RATES. Includes rows for 100% OR ANY BLEND OF WOOD, CELLULOSE, STRAW, AND/OR COTTON PLANT MATERIAL (EXCEPT NO MULCH SHALL EXCEED 30% PAPER) and 70% OR GREATER WOOD/STRAW 30% OR LESS PAPER OR NATURAL MATERIAL.

PERMANENT VEGETATIVE STABILIZATION:

- 1. FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY VEGETATIVE STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (1/2) INCH AND THE AREA SHALL BE RE-SEED IN ACCORDANCE WITH TABLE 2 BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROPS CAN BE MIXED WITH BERMUDAGRASS OR NATIVE PLANT SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
2. FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEM 604S OR 609S.
A. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 606S, FERTILIZER. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED PROPERTY MUST BE MANAGED PROPERLY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IPM COORDINATOR.
B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
C. WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE CHAPTER 6-4 (WATER CONSERVATION), AT RATES AND FREQUENCIES DETERMINED BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE AUSTIN WATER UTILITY AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVE.
D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 1/2 INCHES HIGH WITH A MINIMUM OF 95 PERCENT FOR THE NON-NATIVE MIX AND 95 PERCENT COVERAGE FOR THE NATIVE MIX. CARE AT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
E. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEMS 604S AND 609S.
TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION

ECM APPENDIX P-2 - CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION

- 1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A CERTIFIED INSPECTOR THAT IS EITHER A LICENSED ENGINEER (OR PERSON DIRECTLY SUPERVISED BY THE LICENSED ENGINEER) OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC OR CPESC - ID), CERTIFIED EROSION, SEDIMENT AND STORMWATER INSPECTOR (CESSM OR CESSM - ID) OR CERTIFIED INSPECTOR OF EROSION AND EROSION CONTROLS (CISEC OR CISEC - IT) CERTIFICATION TO INSPECT THE CONTROLS AND FENCES AT WEEKLY OR BI-WEEKLY INTERVALS AND AFTER ONE-HALF (1/2) INCHES OF RAIN OR AFTER 24 HOURS OF CONSTRUCTION. THE INSPECTOR MUST FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. WHEN ONE-HALF (1/2) OF THE INSTALLED HEIGHT OF THE CONTROL WHICHEVER IS LESS.
3. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THE FENCES SHALL BE INSTALLED TO PROTECT THE EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES.
4. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES.
5. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES UP OR DOWN), OR TRENCHING NOT REVEALED AND AUTHORIZED BY THE CITY ARBORIST;
C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT;
D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
6. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;
B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN A TREE'S DRIP LINE, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING SO THAT THIS AREA IS GRADED SEPARATELY PRIOR TO PAVING INSTALLATION TO MINIMIZE ROOT DAMAGE);
C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
D. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST AT 974-1876 TO DISCUSS ALTERNATIVES.
SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FT (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
8. TREES EXPOSED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
11. NO LANDSCAPE TOPSOIL DRESSINGS GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.).
13. ALL FINISHED PRUNING SHALL BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NON-COMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.

AMERICANS WITH DISABILITIES ACT:

THE CITY OF AUSTIN HAS REVIEWED THIS PLAN FOR COMPLIANCE WITH CITY DEVELOPMENT REGULATIONS ONLY. THE APPLICANT, PROPERTY OWNER, AND OCCUPANT OF THE PREMISES ARE RESPONSIBLE FOR DETERMINING WHETHER THE PLAN COMPLIES WITH ALL FEDERAL, STATE, AND LOCAL LAWS, REGULATIONS AND ORDINANCES THAT MAY BE APPLICABLE TO THE PROPERTY AND ITS USE.

APPENDIX P-4 - STANDARD SEQUENCE OF CONSTRUCTION

- 1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE - CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
2. THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR MUST CONTACT THE DEVELOPMENT SERVICES DEPARTMENT, ENVIRONMENTAL INSPECTION, AT 512-974-2278, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED CONSTRUCTION MEETING.
3. THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS SHALL BE REVIEWED, IF REQUIRED, BY THE CITY OF AUSTIN INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
4. ROUGH GRADE THE PONDS(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE DRAINAGE CRITERIA MANUAL AND/OR THE ENVIRONMENTAL CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.
7. IN THE BARTON SPRINGS ZONE, THE ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR SHALL REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND CHANGES IN THE CONSTRUCTION SCHEDULE AND EVALUATE EFFECTIVENESS OF THE EROSION CONTROL PLAN AFTER POSSIBLE CONSTRUCTION ALTERATIONS TO THE SITE. CONTRACTORS SHALL BE REQUIRED TO COORDINATE WITH THE CITY INSPECTOR, GENERAL CONTRACTOR AND ENVIRONMENTAL PROJECT MANAGER OR SITE SUPERVISOR. THE ANTICIPATED COMPLETION DATE AND FINAL CONSTRUCTION SEQUENCE AND SCHEDULE WILL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR.
8. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO CONCURRENTLY WITH REVEGETATION OF THE POND(S).
9. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
10. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT A LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL, SIGNATURE, AND DATE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION AND LANDSCAPING, IS COMPLETE AND IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
11. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE DEVELOPMENT SERVICES DEPARTMENT INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE APPROPRIATE CITY INSPECTOR.
12. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY ARBORIST, THE CONTRACTOR SHALL REMOVE THE EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

ECM APPENDIX P-6 - REMEDIAL TREE CARE NOTES AERATION AND SUPPLEMENTAL NUTRIENT REQUIREMENTS FOR TREES WITHIN CONSTRUCTION AREAS

AS A COMPONENT OF AN EFFECTIVE REMEDIAL TREE CARE PROGRAM PER ENVIRONMENTAL CRITERIA MANUAL SECTION 3.5.4, PRESERVED TREES WITHIN THE LIMITS OF CONSTRUCTION MAY REQUIRE SOIL AERATION AND SUPPLEMENTAL NUTRIENTS. SOIL AERATION AND SUPPLEMENTAL NUTRIENTS SHOULD BE USED TO DETERMINE THE NEED FOR SUPPLEMENTAL NUTRIENTS. THE CITY ARBORIST MAY REQUIRE THESE ANALYSES AS PART OF A COMPREHENSIVE TREE CARE PLAN. SOIL PH SHALL BE CONSIDERED WHEN DETERMINING THE NEED FOR SUPPLEMENTAL NUTRIENTS. IF ANALYSES INDICATE THE NEED FOR SUPPLEMENTAL NUTRIENTS, THEN HUMATE/NUTRIENT SOLUTIONS WITH MYCORRHIZAE COMMENTS ARE HIGHLY RECOMMENDED. IN ADDITION, SOIL AMENDMENTS MAY BE NEEDED TO DETRIMENTAL AND TOXIC MATERIALS FROM THE CONSTRUCTION PROJECT. TO IMPROVE SOIL HEALTH, MATERIALS AND METHODS ARE TO BE APPROVED BY THE CITY ARBORIST (512-974-1876) PRIOR TO APPLICATION. THE OWNER OR GENERAL CONTRACTOR SHALL CONTACT A FERTILIZATION CONTRACTOR AND ENSURE COORDINATION WITH THE CITY ARBORIST.
PRE-CONSTRUCTION TREATMENT SHOULD BE APPLIED IN THE APPROPRIATE SEASON, IDEALLY THE SEASON PRECEDING THE PROPOSED CONSTRUCTION. MINIMALLY, AREAS TO BE TREATED INCLUDE THE ENTIRE CRITICAL ROOT ZONE OF TREES AS DEPICTED ON THE CITY APPROVED PLANS. TREATMENT SHOULD INCLUDE, BUT NOT LIMITED TO, FERTILIZATION, SOIL TREATMENT, MULCHING, AND PROPER PRUNING.
POST-CONSTRUCTION TREATMENT SHOULD OCCUR DURING FINAL REVEGETATION OR AS DEPICTED ON THE APPROVED PLANS. AFTER CONSTRUCTION, CONSTRUCTION ACTIVITIES OFTEN RESULT IN A REDUCTION IN SOIL MACRO AND MICRO PORES AND AN INCREASE IN SOIL BULK DENSITY. TO AMELIORATE THE DEGRADED SOIL CONDITIONS, AERATION VIA CORES AND/OR FOLLAR ANALYSES RESULTS NEED TO BE PROVIDED TO AND APPROVED BY THE CITY ARBORIST PRIOR TO APPLICATION (FAX 512-974-3010). CONSTRUCTION WHICH WILL BE COMPLETED IN LESS THAN 90 DAYS MAY USE MATERIALS AT 1/2 RECOMMENDED RATES. ALTERNATIVE ORGANIC FERTILIZER MATERIALS ARE ACCEPTABLE WHEN APPROVED BY THE CITY ARBORIST WITHIN DAYS AFTER FERTILIZATION IS PERFORMED. THE CONTRACTOR SHALL DOCUMENT THE WORK DONE BY THE CITY ARBORIST, PLANNING AND DEVELOPMENT REVIEW DEPARTMENT. P.O. BOX 1088, AUSTIN, TX 78767. THIS NOTE SHOULD BE REFERENCED AS ITEM #1 IN THE SEQUENCE OF CONSTRUCTION.

SPECIAL CONSTRUCTION TECHNIQUES ECM 3.5.4(D)

PRIOR TO EXCAVATION WITHIN TREE DRIPLINES OR THE REMOVAL OF TREES ADJACENT TO OTHER TREES THAT ARE REMAINING, THE CONTRACTOR SHALL PROTECT THE UNDISTURBED ROOT ZONES WITH A ROCK SACK OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.

IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION WITH FENCING AND WHERE HEAVY VEHICULAR TRAFFIC IS ANTICIPATED, COVER THOSE AREAS WITH A MINIMUM OF 12 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. IN AREAS WITH HIGH SOIL PLASTICITY GEOTECHNICAL FABRIC PER STANDARD SPECIFICATION 620S, SHOULD BE PLACED UNDER THE MULCH TO PREVENT EXCESSIVE MIXING OF THE SOIL AND MULCH. ADDITIONALLY, MATERIAL SUCH AS PLYWOOD AND METAL SHEETS, COULD BE REQUIRED BY THE CITY ARBORIST TO MINIMIZE ROOT IMPACTS FROM HEAVY EQUIPMENT. ONCE THE PROJECT IS COMPLETED, ALL MATERIALS SHOULD BE REMOVED, AND THE MULCH SHOULD BE REDUCED TO A DEPTH OF 3 INCHES.

PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
WATER ALL TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIOD OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.

AUSTIN ENERGY NOTES:

- 1. AUSTIN ENERGY HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS ON THE EXTENT NECESSARY TO KEEP THE EASEMENTS CLEAR. AUSTIN ENERGY WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CHAPTER 25-8, SUBCHAPTER B OF THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
2. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE AUSTIN ENERGY WITH ANY EASEMENT PLD/OR ACCESS REQUIRED, IN ADDITION TO THOSE INDICATED FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. THESE EASEMENTS AND/OR ACCESS ARE REQUIRED TO PROVIDE ELECTRIC SERVICE TO THE BUILDING AND WILL NOT BE LOCATED SO AS TO CAUSE THE SITE TO BE OUT OF COMPLIANCE WITH CHAPTER 25-8 OF THE CITY OF AUSTIN LDC.
3. THE OWNER SHALL BE RESPONSIBLE FOR ANY INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE OVERHEAD ELECTRIC FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. AUSTIN ENERGY WORK SHALL ALSO BE INCLUDED WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, CITY OF AUSTIN REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCE WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD LINES AND EQUIPMENT. AUSTIN ENERGY WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCE WILL BE CHARGED TO THE OWNER.
5. ANY RELOCATION OF ELECTRIC FACILITIES SHALL BE AT OWNER'S EXPENSE.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER POLLUTION ABATEMENT PLAN GENERAL CONSTRUCTION NOTES (REV. JULY 15, 2015)

- 1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
- THE NAME OF THE APPROVED PROJECT;
- THE ACTIVITY START DATE AND;
- THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CHANNE, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATION. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE. THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.
10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THESE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY. STABILIZATION MEASURES ARE NOT REQUIRED, IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
- THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE AND;
- THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
12. THE HOLDER OF ANY APPROVED EDWARDS AQUIFER PROTECTION PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY WATER POLLUTION ABATEMENT STRUCTURE(S), INCLUDING BUT NOT LIMITED TO PONDS, DAMS, BERMS, SEWAGE TREATMENT PLANTS, AND DIVERSIONARY STRUCTURES;
B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED OR A CHANGE WHICH WOULD SIGNIFICANTLY IMPACT THE ABILITY OF THE PLAN TO PREVENT POLLUTION OF THE EDWARDS AQUIFER;
C. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE ORIGINAL WATER POLLUTION ABATEMENT PLAN.

GENERAL NOTES

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.
 REVIEWED BY AUSTIN WATER APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICTION OF BUILDING INSPECTIONS.

USE OF ELECTRONIC FILES GENERAL DISCLAIMER: USE OF THE ATTACHED FILES IN ANY MANNER INDICATES YOUR ACCEPTANCE OF TERMS AND CONDITIONS AS SET FORTH BELOW. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS, PLEASE CONTACT AUSTIN WATER PIPELINE ENGINEERING, PROJECT COORDINATOR PRIOR TO USE OF THE REFERENCED INFORMATION. PLEASE BE ADVISED THAT THE ATTACHED FILES ARE IN A FORMAT THAT CAN BE ALTERED BY THE USER. DUE TO THIS FACT, ANY REUSE OF THE DATA WILL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE CITY OF AUSTIN AND USER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF AUSTIN FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING FROM USING THE DIGITAL FILE. IN ADDITION, IT IS THE RESPONSIBILITY OF THE USER TO COMPARE ALL DATA WITH THE PDF VERSION OF THIS DRAWING. IN THE EVENT THERE IS A CONFLICT BETWEEN THE PDF VERSION DRAWING AND THE ELECTRONIC FILE, THE PDF VERSION DRAWING SHALL PREVAIL.

FIRE FLOW TEST DATA

AUSTIN FIRE DEPARTMENT - FIRE PREVENTION DIVISION
 Engineering Services Section
 One Texas Center, Ste 200 - 505 Barton Springs Road
 Austin, Texas 78704
 Telephone (512) 974-0160 - Facsimile (512) 974-0162

Austin Fire Department Hydrant Flow Test Report

TEST DATE: 2/23/19
 TIME: 1025 HRS
 COMPANY: MESS/CARR
 PREV OFFICER: MESS/CARR

RESIDUAL HYDRANT

MAP GRID #	HYDRANT #	PIPE INTERSECTION #	MAIN SIZE	AED BOX #
H37	242721	27286	6	4403

BLK # 6500 DIRECTION MC NEIL TYPE DR

STATIC PRESSURE (PSI): 90 RESIDUAL PRESSURE (PSI): 64

COMMENTS:

FLOW HYDRANT

MAP GRID #	HYDRANT #	PIPE INTERSECTION #	MAIN SIZE	AED BOX #
H37	64575	7008	6	4403

BLK # 6400 DIRECTION MC NEIL TYPE DR

STATIC PRESSURE (PSI): 90 VELOCITY PRESSURE (PSI): 52

Flow Rate Calculations:
 d = discharge coefficient
 straight 2 1/2" butt = .75
 w/45° elbow = .75
 diffuser = N/A
FLOW RATE (GPM) = 1008

NOTE: This information represents the water supply characteristics in the immediate area on the date and time tested. The City of Austin does not guarantee this data will be representative of the water supply characteristics at any time in the future. It is the requesting party's responsibility to ensure that this test information is appropriate to the location of the project in question and that any differences in elevation between the test location and project are accounted for and included in the hydraulic calculations.

INSPECTION NOTES

PLEASE CALL DEVELOPMENT SERVICES DEPARTMENT, DEPARTMENT, SITE AND SUBDIVISION INSPECTION AT SITESUBDIVISION@AUSTIN.TX.GOV FOR ARRANGEMENTS FOR PAYMENT OF INSPECTION FEES AND JOB ASSIGNMENT FOR INSPECTION OF THE PUBLIC UTILITIES TO THIS SITE. INSPECTION FEES MUST BE PAID BEFORE ANY PRE-CONSTRUCTION MEETING CAN BE HELD.

Fire Flow Summary

Building	Gross SF	Construction	Req. Fire Flow Per 2015 IFC	Req. Fire Flow with Sprinkler Reduction
Building 2	5,018	VB	2,000	1,000
Building 3	3,548	VB	1,500	1,000
Building 4	6,322	VB	2,250	1,000

AVAILABLE FIRE FLOW: 1,721 GPM

STANDARD CONSTRUCTION NOTES - 11/23/17

- THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
- CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
- AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION DEPARTMENT OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE AW PLAN REVIEWER.
- THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
- NO OTHER UTILITY SERVICE/APPOINTMENTS SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
- THE CITY SPECIFICATION ITEM 5095 WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
- ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 18045.04.
- PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS WILL BE ALLOWED ONLY IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
- THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A AND WW 27-F.
- FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 5115.4 AND SHALL BE PAINTED FLINT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS AND OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPURTENANCES.
- WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
- ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
- WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PE IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
- WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
- WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLATIONS.
- ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
- THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK.
- ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AND CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEC RULES.
- CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
- SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS.
- VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
- ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.
- ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133
- ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.
- THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.
- NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
- ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.
- METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.
- PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IF PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

PROJECT INFORMATION

Grid Number: H37
 MAPSCO Number: 434Z
 AW Intersection Number: 27286, 7008
 Building Size in Square Feet: 3,548 GSF
 Building Type per IFC: Type VB
 Building Height: 30 ft
 Available Fire Flow Cals at 20 PSE: 1,721 gpm
 Required Building Fire Flow per IFC: 1,000 gpm
 Automatic Fire Sprinkler System (If applicable): NFPA 13 (Bldgs 2, 3 & 4)
 Minimum Fire Flow: 1,000 gpm
 Phase 1 Domestic Water Demand Bldg 3: 55 gpm
 Bldg 3 Water Supply Fixture Units (WSFU): 62 WSFU's
 Phase 2 Domestic Water Demand Bldg 4: 71 gpm
 Bldg 4 Water Supply Fixture Units (WSFU): 118 WSFU's
 Phase 3 Domestic Water Demand Bldg 2: 59 gpm
 Bldg 2 Water Supply Fixture Units (WSFU): 74 WSFU's
 Austin Water Pressure Zone: Northwest B
 Static Water Pressure: 60 psi
 Maximum Irrigation Demand: 26 gpm
 Bldg 3 Fire Line Velocity: 6.4 fps
 Bldg 3 Domestic Line Velocity: 2" Domestic Line 5.6 fps
 Bldg 4 Fire Line Velocity: 8" Fire Line 6.4 fps
 Bldg 4 Domestic Line Velocity: 2" Domestic Line 7.2 fps
 Bldg 2 Fire Line Velocity: 8" Fire Line 6.4 fps
 Bldg 2 Domestic Line Velocity: 2" Domestic Line 5.9 fps

NOTES:
 LOTS WITH 65 PSI OR GREATER REQUIRE A PRV TO BE INSTALLED ON THE PROPERTY OWNERS SIDE OF THE DOMESTIC WATER METER.
 ON MINIMUM FIRE FLOW, DESIGN ENGINEER MUST INCLUDE 1500 GALLONS PER MINUTE OR REDUCED FIRE FLOW AMOUNT, WHICHEVER IS GREATER AND 1000 GALLONS PER MINUTE ON RESIDENTIAL DEVELOPMENT/SUBDIVISION.

BUILDING WATER METER SIZE TABLE

BUILDING NO.	WSFU	GPM	METER SIZE (INCHES)
1 (EXIST)	48	50	1
2	74	59	1.5
3	62	55	1.5
4	118	71	1.5
IRRIGATION #1 (EXIST)	6	17	5/8
IRRIGATION #2	8	26	3/4

**SERVICE EXTENSION REQUEST
 WATER SER NO. SET-4785**

WATER AND WASTEWATER SERVICE EXTENSION REQUEST FOR CONSIDERATION

Name: McNeil Drive Medical Center Service Requested: Water

SER-4785 Hamam Service Request Number: 851745 Date Received: 04/30/2020

Location: 6500 MC NEIL DR AUSTIN TX 78729

Acres: 2.98 Land Use: OFFICE LUE: 5

Alt. Utility Service or S.E.R. Number: City of Austin Wastewater Service Available

Quad(s): H37 Reclaimed Pressure Zone: N/A DDZ: YES

Drainage Basin: WALNUT Pressure Zone: NORTHWEST B DWPZ: NO

Demand (Estimated Peak Hour): 11 GPM FIRE FLOW: 1,000 GPM

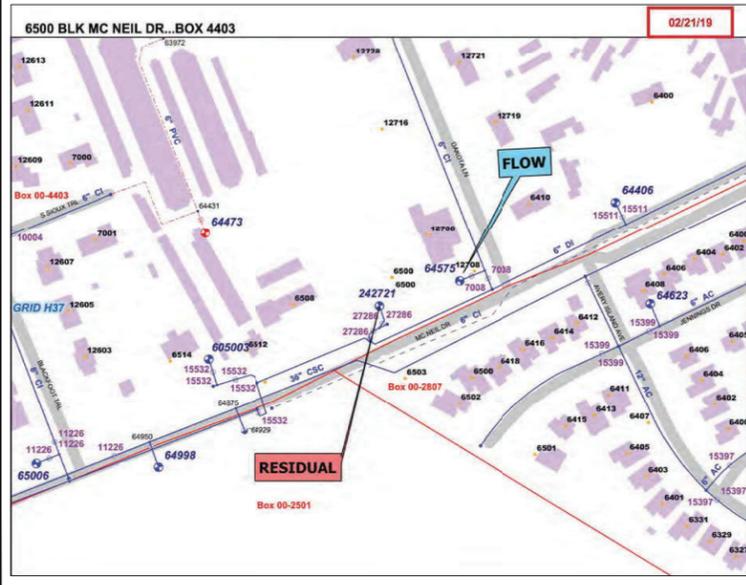
Cost Participation: \$0 % Within City Limits: 100 % Within Limited Purpose: 0

Description of Improvements:
 Applicant shall construct approximately 250 feet of 8-inch water main from the existing 8-inch water main in McNeil Dr (Intersection No. 7957) and extend northeast along McNeil Dr to the existing 8-inch water main (Project No. 74-0143) in Blackfoot Trl at McNeil Dr, as approximately shown on the attached map. The proposed 8-inch water main shall replace the existing 6-inch water main along its path and all existing services shall be reconnected to the proposed 8-inch water main.

NOTE: Water demand and sprinkler fire flow requirement based on engineering calculations received from Scott J. Foster, P.E. of 360 Professional Services, Inc. on 4/30/2020 and 7/21/2020, respectively.

Approval of this Service Extension Request is subject to completion and acceptance of the improvements described above and the conditions set forth below:
 1) Construction of all Service Extensions is subject to all environmental and planning ordinances.
 2) Service Extensions are subject to the guidelines established in the Land Development Code, Chapter 25-9, Water and Wastewater Utility Services.
 3) An approved Service Extension is not a reservation of capacity in the system, but is an acknowledgment of the intent to serve. Available capacity shall be confirmed at the time a development application is submitted.
 4) The level of service approved by this document does not imply commitment for land use.
 5) Public utility mains must meet City of Austin design and construction criteria and must be approved by Austin Water Engineering Review.
 6) Approval of a site plan that meets the Fire Department requirements for fire control.
 7) Proposed public water improvements will be dedicated to the City of Austin for ownership, operation, and maintenance.
 8) Proposed public water improvements must be placed in the public right-of-way or approved utility easements. Utility easements must be approved by Austin Water Engineering Review and must be in place prior to construction plan approval.
 9) The approved Service Extension will automatically expire 180 days after date of approval unless a development application has been accepted by the Development Services Department. The Service Extension expires on the date the development expires, or if approved, on the date the development application approval expires.

Project Manager, Utility Development Services Date: 7/23/2020
 Supervisor, Utility Development Services Date: 07/23/20
 Asst. Director, Env., Planning, and Development Svcs. Date: 07/28/2020
 Director, Austin Water Date: 07/29/2020



AW INFRASTRUCTURE INFORMATION

AW INFRASTRUCTURE INFORMATION (PUBLIC)

PROPOSED PRODUCT TYPE TO BE INSTALLED: LENGTH OF PIPE (L.F.) SIZE OF PIPE (INCH) NO. OF SERVICES

WATER MAIN - FIRE	54	8	NA
WATER MAIN - DOMESTIC	167	8	NA
WASTEWATER MAIN	0	NA	NA
RECLAIMED WATER MAIN	0	0	NA
WATER SERVICE	0	NA	3
WASTEWATER SERVICE	0	NA	3
RECLAIMED WATER SERVICE	0	NA	0

DOES THIS PROJECT NEED AULCC REVIEW?
 YES
 NO

DOES THIS PROJECT INVOLVE A LICENSE AGREEMENT THAT IMPACTS AW INFRASTRUCTURE?
 YES
 NO

NOTE: IF THE PROJECT IS LOCATED WITHIN FULL PURPOSE JURISDICTION, A RIGHT-OF-WAY REVIEW, THROUGH THE AULCC PERMIT PROCESS WILL BE REQUIRED.

Meter Notice:
 Meter 1.5 inches and larger must be purchased and ordered 90 days in advance of installation.

Meter(s) Requirement for Project: 4
 Address: 6500 MCNEIL DRIVE

Proposed Use: Domestic Building 3 (Phase 1)
 Type: Positive Displacement
 Size: 1.5" GPM: 5-100
 Service Units: 5

Proposed Use: Domestic Building 4 (Phase 2)
 Type: Positive Displacement
 Size: 1.5" GPM: 5-100
 Service Units: 5

Proposed Use: Domestic Building 2 (Phase 3)
 Type: Positive Displacement
 Size: 1.5" GPM: 5-100
 Service Units: 5

Proposed Use: Irrigation #2 (Phase 1)
 Type: Positive Displacement
 Size: 3/4" GPM: 2-30
 Service Units: 1.5

TEXAS FIRM REGISTRATION F4932
 P.O. BOX 19399 AUSTIN, TEXAS 78763
 CEDAR PARK, TEXAS 78613
 PHONE (512) 354-4682
 FAX (512) 800-7882

PROFESSIONAL SERVICES, INC.
 360



MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

AUSTIN WATER GENERAL INFORMATION AND CONSTRUCTION NOTES

Scale: AS SHOWN
 Designed by: [Signature]
 Drawn by: [Signature]
 Checked by: [Signature]
 Date: OCTOBER 27, 2021
 Project No. SP-2019-0564C

SHEET 05 OF 37

DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

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SITE PLAN APPROVAL SHEET 05 OF 37
 FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
 APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
 PROJECT EXPIRATION DATE (ORD.9970905-A) DWPZ DDZ X

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: ZONING LD AND GO

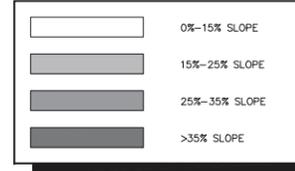
Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

DWG01: 5 PLOT DATE: 10/19/2020 @ 10:56am PLOTTED BY: merrit

PERIMETER EROSION CONTROL DEVICES AND TREE PROTECTION FOR TREES SHALL BE IN PLACE PRIOR TO DEMOLITION. REFERENCE EROSION CONTROL PLAN AND DETAILS FOR TYPE AND LOCATION.

SLOPE LEGEND



*ONLY NATURAL SLOPES INCLUDED IN ANALYSIS



SCALE IN FEET
30 15 0 30

SURVEY LEGEND

- 1/2" ROD FOUND
- 1/2" ROD SET
- "X" SCRIBE FOUND IN CONC.
- CHAIN LINK FENCE
- WOOD FENCE
- BL BUILDING LINE
- CAE COMMON ACCESS ESMT
- EE ELECTRIC ESMT
- PUE PUBLIC UTILITY ESMT
- WWE WATER/WASTEWATER ESMT
- DOCS 2002019591, 2002019592
- METER BOX
- AIR CONDITIONER
- UTILITY POLE
- OH OVERHEAD UTILITY LINE(S)
- DOWN GUY
- ET ELECTRIC TRANSFORMER ON PAD
- CABLE RISER
- TELEPHONE RISER
- MANHOLE
- ELECTRIC MANHOLE
- FIRE HYDRANT
- LIGHT POLE
- GAS WARNING SIGN
- CLEAN OUT
- WATER VALVE
- SEPTIC
- DWQE DRAINAGE/WATER QUALITY ESMT
- WLE WATER LINE ESMT
- GLE GAS LINE ESMT

BEARING BASIS:
BEARINGS ARE BASED ON THE TEXAS COORDINATE SYSTEM
CENTRAL TEXAS ZONE (4203) NAD83 HARN HORIZONTAL CONTROL.
BENCHMARK
TOP OF "X" FOUND ELEVATION=912.37'
NAVD 1988 DATUM

REVIEWED
December 08, 2020
Austin Water Utility

REVIEWED
December 15, 2020
Rachel Reddig
Industrial Waste
Rachel Reddig

Inspection Notice: Please email Development Services Department, Site & Subdivision Inspection at atd@cityofaustin.gov for arrangements for payment of inspection fees and job assignment for inspection of the public utilities to this site. Inspection fees must be paid before any pre-construction meeting can be held.

PROPERTY LINE AND CURVE TABLES

CURVE TABLE				
CURVE	RADIUS	ARC	BEARING	CHORD
C1	20.00'	30.79'	S 66°38'21" E	27.84'
C2	16.00'	24.75'	S 34°52'49" W	22.36'

LINE TABLE		
LINE	BEARING	LENGTH
L1	N 26°14'30" W	50.03'
L2	S 64°10'23" W	20.06'
L3	N 67°38'26" E	34.20'
L4	N 21°35'25" W	65.48'
L5	N 68°10'32" E	162.50'
L6	S 68°10'32" W	162.50'
L7	N 68°15'21" E	162.53'
L8	S 68°15'21" W	162.53'
L9	S 21°57'17" E	68.84'
L10	N 21°57'17" W	68.84'

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

DEVELOPMENT PERMIT NO. SP-2019-0564C

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SITE PLAN APPROVAL SHEET 06 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON _____ UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81.LDC) _____ CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.970905-A) _____ DWPF _____ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE _____ ZONING LD AND GO

Rev. 1 _____ Correction 1
Rev. 2 _____ Correction 2
Rev. 3 _____ Correction 3

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NOTE:
360 Professional Services, Inc. is not responsible for the means and methods employed by the contractor to implement this demolition plan. This demolition plan simply indicates the known objects on the subject tracts that are to be demolished and removed from the site. 360 Professional Services, Inc. does not warrant or represent that the plan, which was prepared based on survey and utility information provided by others, shows all improvements and utilities, that the improvements and utilities are shown accurately, or that the utilities shown can be removed. The contractor is responsible for performing his own site reconnaissance to scope his work and to confirm with the owners of improvements and utilities the ability and process for the removal of their facilities. This plan is intended to give a general guide to the contractor, nothing more. The goal of the demolition is to leave the site in a state suitable for the construction of the proposed development. Removal or preservation of improvements, utilities, etc. to accomplish this goal are the responsibility of the contractor.
Contractor shall comply with all local, state, and federal regulations regarding the demolition of objects on the site and the disposal of the demolished materials off-site. It is the contractor's sole responsibility to review the site, determine the applicable regulations, receive the required permits and authorizations, and comply.

- NOTES:**
- SURVEY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION PROVIDED BY ALLSTAR LAND SURVEYING DATED MAY 2019. NO WARRANTY IS EXPRESSED OR IMPLIED TO ITS ACCURACY.
 - CONTRACTOR TO NOTIFY ENGINEER IF DISCREPANCIES ARE FOUND.
 - A PRE CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - LOCATIONS OF PUBLIC AND FRANCHISE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL THE ONE CALL CENTER (811) AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
 - REMOVAL OR RELOCATION OF EXISTING PUBLIC AND PRIVATE FRANCHISE UTILITIES (WATER, ELECTRIC, AND GAS ETC.) WITHIN THE LIMITS OF THE SITE DEMOLITION SHALL BE COORDINATED WITH THE APPLICABLE UTILITY AGENCIES AND IN ACCORDANCE WITH LOCAL CODES.
 - ALL EXISTING UTILITY SERVICES TO BE TURNED OFF BY UTILITY FRANCHISE TECHNICIAN TO ALLOW FOR EXISTING SERVICE LINES TO BE CUT/PLUGGED AT MAIN PER UCM SECTION 2.8.
 - ALL UTILITIES IN STREET RIGHT-OF-WAY TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
 - SURFACE PAVEMENT INDICATED HEREON (SUCH AS ASPHALT OR CONCRETE) MAY OVERLAY HIDDEN STRUCTURES (SUCH AS OTHER LAYERS OF PAVEMENT, BUILDING SLAB, ETC.) THAT ARE ALSO TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL OF EXISTING PAVEMENT SECTION, STRUCTURAL SUBGRADE, STRUCTURAL FOUNDATION, AND UTILITIES WITHIN THE SITE. CONTRACTOR TO DISPOSE ALL DEMOLITION SPILLS OFF-SITE IN A LEGAL MANNER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, IRRIGATION LINES, PAVEMENT, ETC., TO REMAIN RESULTING FROM DEMOLITION ACTIVITIES AND REPAIR AT HIS OWN EXPENSE.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
 - ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF-SITE IN A MANNER ACCEPTABLE TO ALL APPLICABLE REGULATIONS.
 - PERIMETER EROSION CONTROL DEVICES AND TREE PROTECTION FOR TREES SHALL BE IN PLACE PRIOR TO DEMOLITION. REFERENCE EROSION CONTROL PLAN AND DETAILS FOR TYPE AND LOCATION.
 - CONTRACTOR TO ADJUST RIMS OF ALL EXISTING VALVES, SPRINKLER HEADS, MANHOLES, ETC. TO MATCH PROPOSED/FINAL GRADES.
 - ON-SITE OVERHEAD UTILITY AND POLES TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY.
 - ANY EXISTING WATER METERS AND VAULTS FOR THE SITE TO BE REMOVED AND TURNED INTO AWJ FOR CREDIT TO THE DEVELOPER.
 - ANY DEMOLITION OCCURRING IN CRZ OF PRESERVED TREES TO BE PERFORMED WITH HAND TOOLS AND NO DEEPER THAN 4 INCHES IN THE 1/2 CRZ.

TREE LIST		TREE LIST	
206	11.5" SPANISH OAK	397	19.5" CEDAR ELM (P)
207	10" SPANISH OAK	398	17" CEDAR ELM
208	10.5" SPANISH OAK	399	16.5" CEDAR ELM
209	14.5" LIVE OAK	310	19.5" CEDAR ELM (P)
211	16.5" LIVE OAK	342	15" LIVE OAK
215	8" MESQUITE	343	17" LIVE OAK
216	6.5" MESQUITE	348	12.5" LIVE OAK
217	8" SPANISH OAK	349	11.5" CEDAR ELM
218	14" CEDAR ELM	350	12" CEDAR ELM
219	14" LIVE OAK	351	11" CEDAR ELM
240	16" LIVE OAK	354	10" CEDAR ELM
241	8.5" SPANISH OAK	355	18.5" CEDAR ELM
242	11" LIVE OAK	360	16.5" CEDAR ELM
243	13" LIVE OAK	362	8" CHINA BERRY
244	8.5" MESQUITE (M)	367	14" LIVE OAK
245	9" LIVE OAK	368	8" CHINA BERRY
246	17" LIVE OAK	369	16" LIVE OAK
247	12" LIVE OAK	374	14" LIVE OAK
248	17.5" LIVE OAK	376	12" LIVE OAK
249	14.5" LIVE OAK	377	14.5" LIVE OAK
250	6" HACKBERRY	378	15.5" LIVE OAK
254	9.75" MESQUITE (M)	379	25" LIVE OAK (H)
255	8.75" HACKBERRY (M)	387	20.5" CEDAR ELM (M/P)
256	4.5" CEDAR ELM	390	30.25" LIVE OAK (H)
257	6.5" MESQUITE	392	20.5" LIVE OAK (P)
262	6" MESQUITE	394	15" LIVE OAK
203	15.5" LIVE OAK	400	16" LIVE OAK
204	20.75" CEDAR ELM (M/P)	401	18.5" LIVE OAK
205	14.25" CEDAR ELM (M)	402	18.5" LIVE OAK
207	8.5" CEDAR ELM	403	13.5" CEDAR ELM
209	15" CEDAR ELM	404	17" LIVE OAK
301	13.5" CEDAR ELM	409	16" HACKBERRY
302	13.5" CEDAR ELM	410	11.75" CEDAR ELM
303	18" LIVE OAK	412	14" LIVE OAK
304	13" CEDAR ELM	414	15" LIVE OAK
305	16.5" LIVE OAK	415	13.5" LIVE OAK
306	13.5" CEDAR ELM	416	14" LIVE OAK

TEXAS FIRM REGISTRATION F4832
P.O. BOX 939
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4682
FAX (512) 360-7882

PROFESSIONAL SERVICES, INC.
360



MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

EXISTING CONDITIONS
AND DEMOLITION PLAN

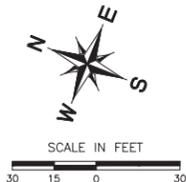
Scale: AS SHOWN
Designed by: _____
Drawn by: _____
Checked by: _____
Date: OCTOBER 2020
Project No. _____

CITY OF AUSTIN
APPROVED
JANUARY 2021

SHEET
06
OF 37
SP-2019-0564C

LEGEND

- GRATE INLET PROTECTION
- SILT FENCE
- TREE PROTECTION
- LIMITS OF CONSTRUCTION (1.8 AC.)
- TREE TO REMAIN
- TREE TO BE REMOVED
- STABILIZED CONSTRUCTION ENTRANCE
- TRIANGULAR FILTER DIKE



TREE PRESERVATION & MITIGATION SUMMARY

STATUS	TREE TAG	TYPE	SIZE (CAL INCHES)
P	206	SPANISH OAK	11.5
P	207	SPANISH OAK	10
P	208	SPANISH OAK	10.5
P	210	LIVE OAK	14.5
P	211	LIVE OAK	16.5
P	235	MESQUITE	8
P	236	MESQUITE	6.5
P	237	SPANISH OAK	8
P	238	CEDAR ELM	14
P	239	LIVE OAK	14
P	240	LIVE OAK	16
P	242	LIVE OAK	11
R	243	LIVE OAK	13
R	244	MESQUITE	8.5
P	245	LIVE OAK	9
P	246	LIVE OAK	17
P	247	LIVE OAK	12
P	248	LIVE OAK	17.5
R	249	LIVE OAK	14.5
R	250	HACKBERRY	6
R	254	MESQUITE	9.75
R	255	HACKBERRY	8.75
R	256	CEDAR ELM	6.5
R	261	MESQUITE	6.5
R	262	MESQUITE	6
R	293	LIVE OAK	15.5
RP	294	CEDAR ELM	20.75
P	295	CEDAR ELM	14.25
R	297	CEDAR ELM	8.5
R	300	CEDAR ELM	15
R	301	CEDAR ELM	13.5
R	302	CEDAR ELM	13.5
R	303	LIVE OAK	18
R	304	CEDAR ELM	13
R	305	LIVE OAK	16.5
R	306	CEDAR ELM	13.5
RP	307	CEDAR ELM	19.5
R	308	CEDAR ELM	17
R	309	CEDAR ELM	16.5
RP	310	CEDAR ELM	19.5
P	342	LIVE OAK	15
P	343	LIVE OAK	13
P	348	LIVE OAK	12.5
R	349	CEDAR ELM	11.5
R	350	CEDAR ELM	12
R	351	CEDAR ELM	11
P	354	CEDAR ELM	10
P	355	CEDAR ELM	18.5
R	360	CEDAR ELM	16.5
R	362	CHINABERRY	8
R	367	LIVE OAK	14
R	368	CHINABERRY	8
P	369	LIVE OAK	16
R	375	LIVE OAK	14
R	376	LIVE OAK	12
R	377	LIVE OAK	14.5
P	378	LIVE OAK	15.5
P	379	LIVE OAK	25
P	387	CEDAR ELM	20.5
H	390	LIVE OAK	30.25
P	392	LIVE OAK	20.5
R	394	LIVE OAK	15
P	400	LIVE OAK	16
R	401	LIVE OAK	18.5
P	402	LIVE OAK	18.5
P	403	CEDAR ELM	13.5
R	404	LIVE OAK	17
P	409	HACKBERRY	16
P	410	CEDAR ELM	11.75
R	413	LIVE OAK	14
P	414	LIVE OAK	15
P	415	LIVE OAK	13.5
P	416	LIVE OAK	14

*TREE SURVEY DATED MAY 2019
 *REFER TO LA PLANS FOR PHASED REMOVAL AND MITIGATION

DEVELOPMENT PERMIT NO. SP-2019-0564C

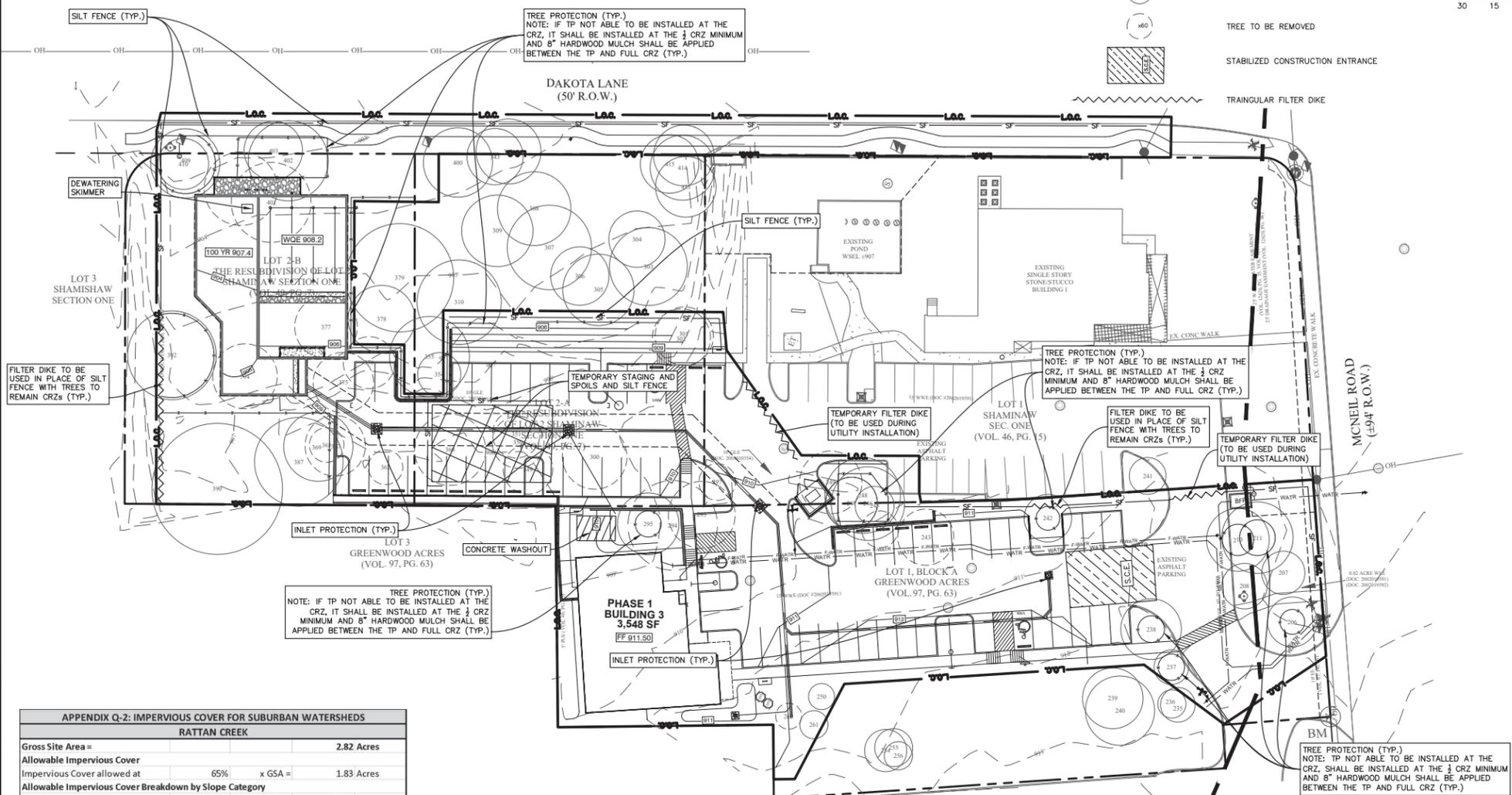
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CITY OF AUSTIN
 APPROVED
 DATE 10/27/2020

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: ZONING LD AND GO

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION



APPENDIX Q-2: IMPERVIOUS COVER FOR SUBURBAN WATERSHEDS

RATTAN CREEK

Gross Site Area =	2.82 Acres
Allowable Impervious Cover	
Impervious Cover allowed at	65% x GSA = 1.83 Acres
Allowable Impervious Cover Breakdown by Slope Category	
Total Acreage 15-25% =	0.06 Acres x 10% = 0.006
Total Impervious Cover =	1.81 Acres 64%

Impervious Cover on Slopes

Slope Categories	Total Site		Impervious Cover		Drives
	Acres	% of Category	Acres	% of Category	
0-15%	2.73	1.013	37%	0.781	
15-25%	0.06	0.001	2%	0.012	
25-35%	0.02	0.000	2%	0.005	
Over 35%	0.01	0.000	0%	0.000	
Total Site Area	2.82				

APPENDIX Q-2: IMPERVIOUS COVER FOR SUBURBAN WATERSHEDS

WALNUT CREEK

Gross Site Area =	0.16 Acres
Allowable Impervious Cover	
Impervious Cover allowed at	80% x GSA = 0.13 Acres
Allowable Impervious Cover Breakdown by Slope Category	
Total Acreage 15-25% =	0.00 Acres x 10% = 0.000
Total Impervious Cover =	0.03 Acres 19%

Impervious Cover on Slopes

Slope Categories	Total Site		Impervious Cover		Drives
	Acres	% of Category	Acres	% of Category	
0-15%	0.16	0.004	2%	0.024	
15-25%	0.00	0.000	0%	0.000	
25-35%	0.00	0.000	0%	0.000	
Over 35%	0.00	0.000	0%	0.000	
Total Site Area	0.16				

- NOTES:
- SURVEY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION PROVIDED BY ALLSTAR LAND SURVEYING DATED MAY 2019. NO WARRANTY IS EXPRESSED OR IMPLIED TO ITS ACCURACY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
 - THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
 - CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
 - TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE ARCHITECTURAL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
 - BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCE - PROVIDE TURNBACKS EVERY 200'S LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
 - THERE ARE NO KNOWN CEP'S ON-SITE.
 - THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
 - ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY THE INSPECTOR AT TIME OF CONSTRUCTION.
 - CONTRACTOR TO REPLACE SILT FENCE - PROVIDE TURNBACKS EVERY 200' WITH TRIANGULAR FILTER DIKE AS NEEDED TO CONSTRUCT DRIVEWAYS AND PARKING SPACES.
 - IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING. [ECM 1.4.4.B.3, SECTION 5, I]
 - ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS. [LDC 25-8-183]
 - CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(A), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
 - THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4.D.4]
 - CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM IS NOT PERFORMING, THE CONTRACTOR MUST IMMEDIATELY MAKE THE NECESSARY MODIFICATIONS, FOLLOWING THE ENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE ADEQUATE SYSTEM PERFORMANCE. CONTRACTOR SHALL PROVIDE THE DEWATERING PLAN AT THE PRECONSTRUCTION MEETING

TEK'S FIRM REGISTRATION F4832
 P.O. BOX 1639
 CEDAR PARK, TEXAS 78613
 PHONE (512) 354-4682
 FAX (512) 360-7882

PROFESSIONAL SERVICES, INC.



MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

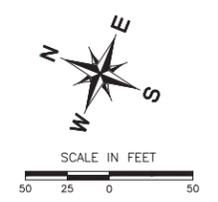
PHASE 1 EROSION AND
 SEDIMENTATION
 CONTROL AND TREE
 PROTECTION PLAN

Scale: AS SHOWN
 Designed by: [Signature]
 Drawn by: [Signature]
 Checked by: [Signature]
 Date: OCTOBER 27, 2020
 Project No. SP-2019-0564C

SHEET
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 OF 37

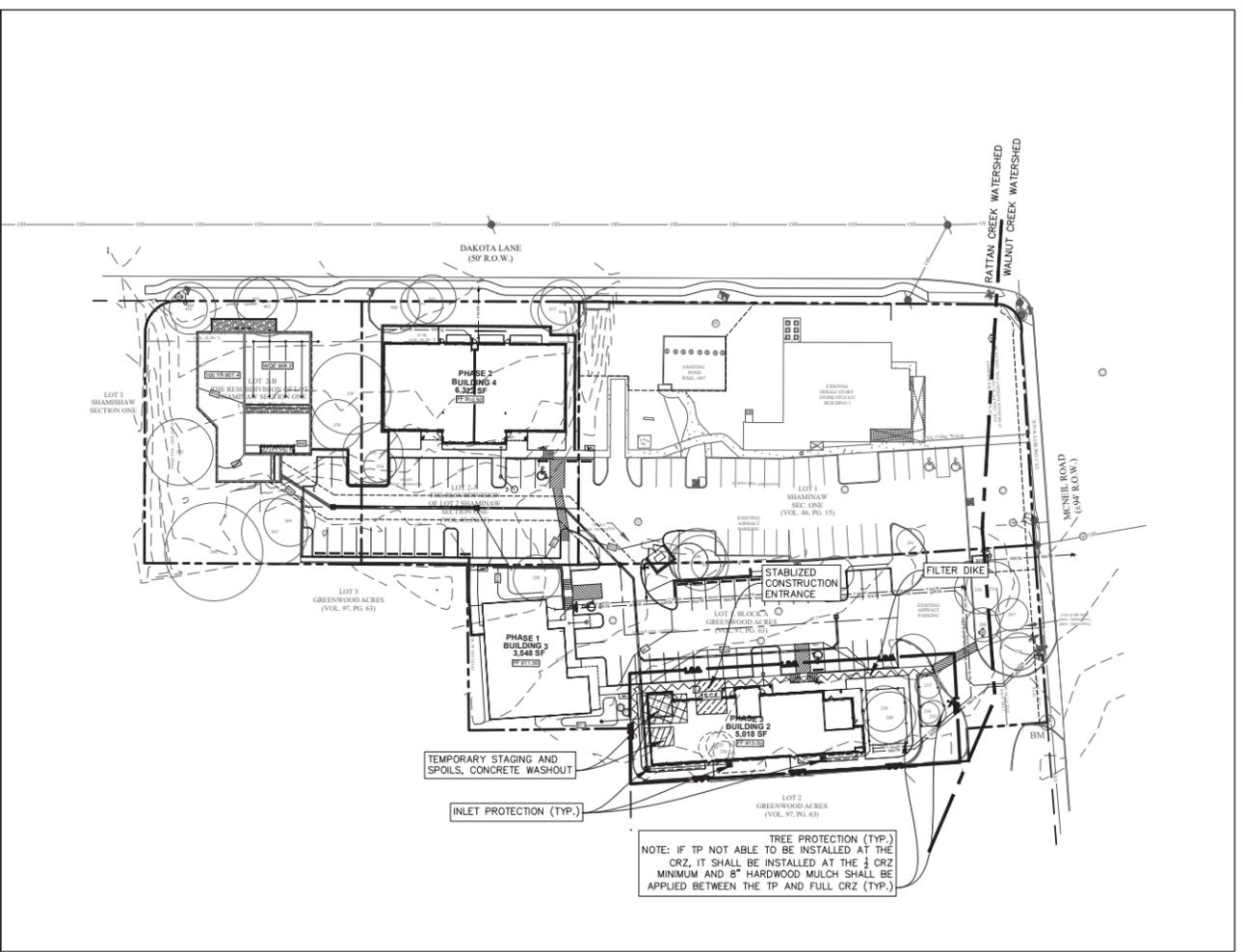
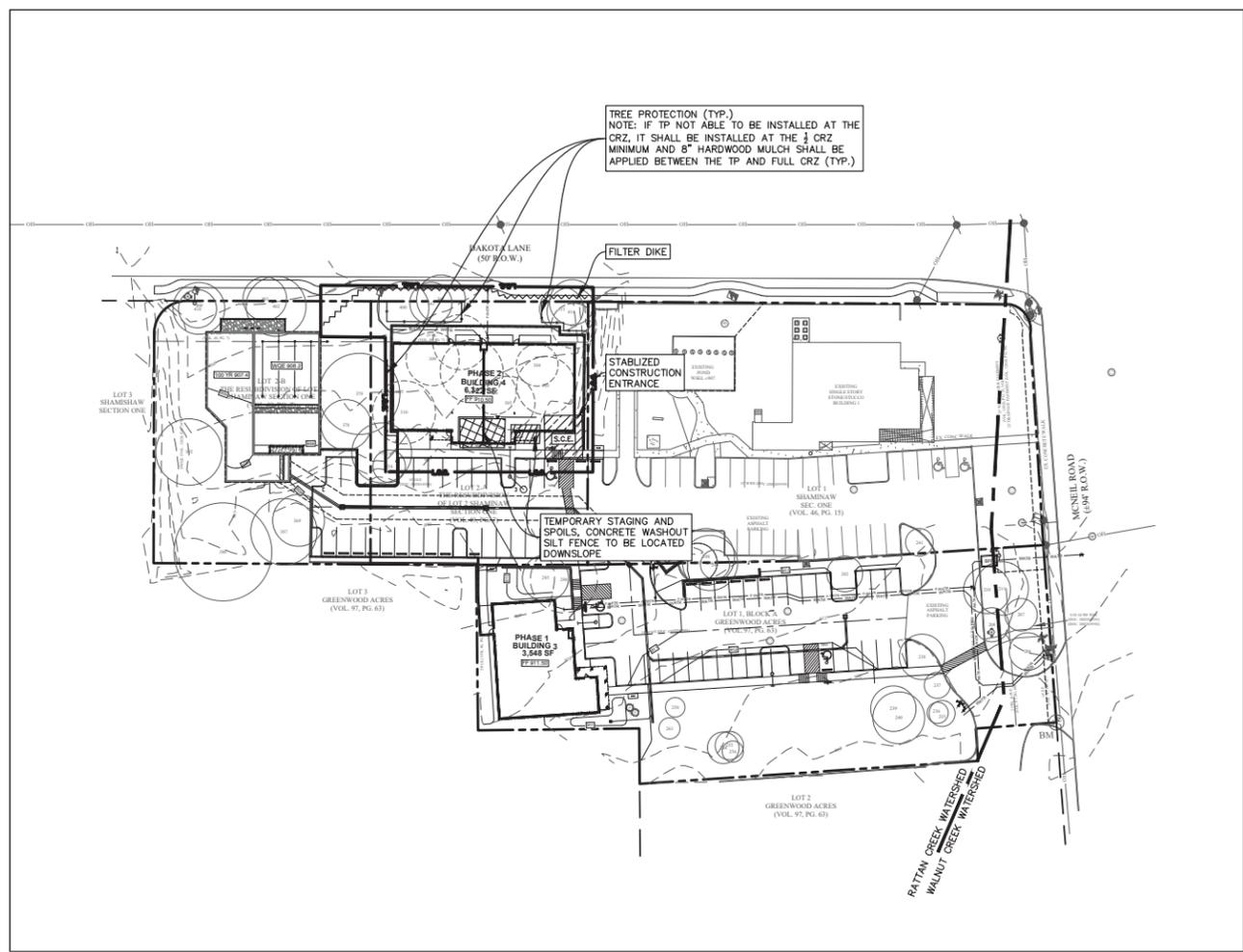
LEGEND

- GRATE INLET PROTECTION
- SILT FENCE
- TREE PROTECTION
- LIMITS OF CONSTRUCTION (1.5 AC.)
- TREE TO REMAIN
- TREE TO BE REMOVED
- STABILIZED CONSTRUCTION ENTRANCE
- TRIANGULAR FILTER DIKE



PHASE 2

PHASE 3



- NOTES:**
- SURVEY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION PROVIDED BY ALLSTAR LAND SURVEYING DATED MAY 2019. NO WARRANTY IS EXPRESSED OR IMPLIED TO ITS ACCURACY.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
 - THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
 - CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
 - TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE ARCHITECTURAL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
 - BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE: SILT FENCE - PROVIDE TURNBACKS EVERY 200'S LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
 - THERE ARE NO KNOWN CEF'S ON-SITE.
 - THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
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DEVELOPMENT PERMIT NO. SP-2019-0564C

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SITE PLAN APPROVAL SHEET 08 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON _____ UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81.LDC) _____ CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.970905-A) _____ DWPZ _____ DDZ X _____

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING LD AND GO _____

Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

App. _____
Revisions _____
No. _____ Date _____

SCOTT J. FOSTER
LICENSED PROFESSIONAL ENGINEER
10/17/2020

MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

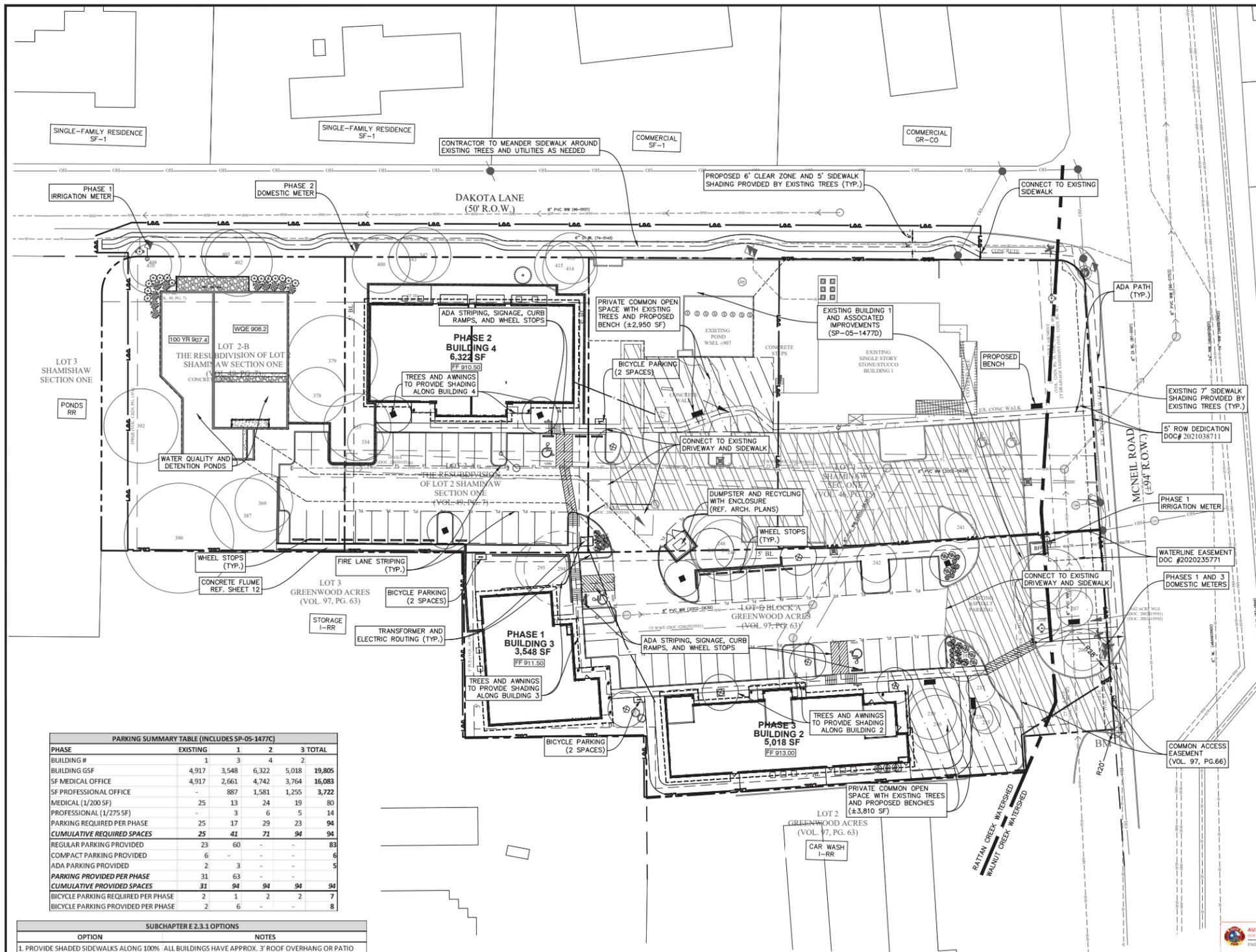
PHASES 2 AND 3 EROSION AND SEDIMENTATION CONTROL AND TREE PROTECTION PLAN

Scale: AS SHOWN
Designed by: _____
Drawn by: _____
Checked by: _____
Date: OCTOBER 2019
Project No. _____

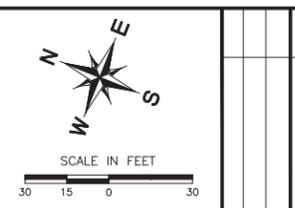
CITY OF AUSTIN
APPROVED
Date 2/21/2021

SHEET
08
OF 37

SP-2019-0564C



TOTAL SITE DATA SUMMARY TABLE (INCLUDES SP-05-1477C)	
ZONING	GO CO/LO CO
GROSS SITE AREA (GSA)	129,870 SF
RATTAN CREEK WATERSHED	2.98 AC
WALNUT CREEK WATERSHED	122,854 SF
WATERSHED TYPE	SUBURBAN
BUILDING USE	MEDICAL AND PROFESSIONAL OFFICE
TOTAL EXIST. BUILDING GSF	4,917 SF
TOTAL PROP. BUILDING GSF	14,888 SF
TOTAL BUILDING GSF	19,805 SF
TOTAL BUILDING COVERAGE	7,017 SF
TOTAL IMPERVIOUS COVER	0.16 AC
TOTAL BUILDING FAR	17.8%
REQ. PRIVATE COMMON OPEN SPACE (5%)	0.1
PROVIDED PRIVATE COMMON OPEN SPACE	6,494 SF
TOTAL IMPERVIOUS COVER	6,760 SF
TOTAL PERCENTAGE IC	80,320 SF
TOTAL SP-05-1477C IMPERVIOUS COVER	62%
EX. IMPERVIOUS COVER	26,525
PROP. BUILDING COVERAGE	0.61 AC
PROP. PAVING	3,721 SF
PROP. SIDEWALK/HARDSCAPE	23,175 SF
TOTAL SP-2019-XXXX PROPOSED IC	20,467 SF
TOTAL RATTAN CREEK IC	5,097 SF
TOTAL PERCENTAGE IC (65% MAX)	52,461
TOTAL WALNUT CREEK IC	1.20 AC
TOTAL PERCENTAGE IC (80% MAX)	78,985 SF
TOTAL SP-2019-0564C PROPOSED IC	64%
	1.81 AC



LOT 1, BLOCK A GREENWOOD ACRES	
ZONING	GO CO
LOT AREA	42,819 SF
WATERSHED: RATTAN AND WALNUT CREEK	0.98 AC
BUILDING 2 GSF	5,018 SF
BUILDING 3 GSF	3,548 SF
TOTAL BUILDING GSF	8,566 SF
BUILDING COVERAGE (60% MAX)	10,807 SF
BUILDING FAR (1-1 MAX)	25.2%
BUILDING 2 NO. OF STORIES	0.2
BUILDING 3 NO. OF STORIES	1
BUILDING 4 NO. OF STORIES	28 FT
BUILDING 3 HEIGHT (60' PER ZONING MAX)	1
BUILDING 4 HEIGHT (40' PER ZONING MAX)	21 FT
RATTAN CREEK:	0.82 AC
TOTAL IMPERVIOUS COVER	28,826 SF
EX. IMPERVIOUS COVER	0.66 AC
PROP. BUILDING COVERAGE	3,721
PROP. PAVING	10,807 SF
PROP. SIDEWALK/HARDSCAPE	11,328 SF
TOTAL PERCENTAGE IC	2,969 SF
WALNUT CREEK:	81%
TOTAL IMPERVIOUS COVER	0.16 AC
EX. IMPERVIOUS COVER	1,203 SF
PROP. BUILDING COVERAGE	0.03 AC
PROP. PAVING	1,203 SF
PROP. SIDEWALK/HARDSCAPE	- SF
TOTAL PERCENTAGE IC (80% MAX)	1.23 AC

LOT 2-B RESUB OF LOT 2 SHAMINAW	
ZONING	LO CO
LOT AREA	21,706 SF
WATERSHED: RATTAN CREEK	0.50 AC
TOTAL BUILDING GSF	- SF
BUILDING COVERAGE (50% MAX)	- SF
BUILDING FAR (7-1 MAX)	0.0%
BUILDING HEIGHT (40' PER ZONING MAX)	30 FT
TOTAL IMPERVIOUS COVER	2,233 SF
EX. IMPERVIOUS COVER	0.05 AC
PROP. BUILDING COVERAGE	- SF
PROP. PAVING	1,767 SF
PROP. SIDEWALK/HARDSCAPE	456 SF
TOTAL PERCENTAGE IC	10%

LOT 2-A RESUB OF LOT 2 SHAMINAW	
ZONING	LO CO
LOT AREA	21,706 SF
WATERSHED: RATTAN CREEK	0.50 AC
BUILDING 4 GSF	6,322 SF
TOTAL BUILDING GSF	6,322 SF
BUILDING COVERAGE (50% MAX)	7,451 SF
BUILDING FAR (7-1 MAX)	34.3%
BUILDING 4 NO. OF STORIES	0.3
BUILDING 4 HEIGHT (40' PER ZONING MAX)	18 FT
TOTAL IMPERVIOUS COVER	16,495 SF
EX. IMPERVIOUS COVER	0.38 AC
PROP. BUILDING COVERAGE	7,451 SF
PROP. PAVING	7,372 SF
PROP. SIDEWALK/HARDSCAPE	1,672 SF
TOTAL PERCENTAGE IC	76%

PARKING SUMMARY TABLE (INCLUDES SP-05-1477C)					
PHASE	EXISTING	1	2	3	TOTAL
BUILDING #	1	3	4	2	
BUILDING GSF	4,917	3,548	6,322	5,018	19,805
SF MEDICAL OFFICE	4,917	2,661	4,742	3,764	16,083
SF PROFESSIONAL OFFICE	-	887	1,581	1,255	3,722
MEDICAL (1/200 SF)	25	13	24	19	80
PROFESSIONAL (1/275 SF)	-	3	6	5	14
PARKING REQUIRED PER PHASE	25	17	29	23	94
CUMULATIVE REQUIRED SPACES	25	41	71	94	94
REGULAR PARKING PROVIDED	23	60	-	-	83
COMPACT PARKING PROVIDED	6	-	-	-	6
ADA PARKING PROVIDED	2	3	-	-	5
PARKING PROVIDED PER PHASE	31	63	-	-	94
CUMULATIVE PROVIDED SPACES	31	94	94	94	94
BICYCLE PARKING REQUIRED PER PHASE	2	1	2	2	7
BICYCLE PARKING PROVIDED PER PHASE	2	6	-	-	8

DEVELOPMENT PERMIT NO. SP-2019-0564C

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SITE PLAN APPROVAL SHEET 09 OF 37
 FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
 APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-S-81.LDC) CASE MANAGER J. SULTANA
 PROJECT EXPIRATION DATE (ORD-970905-A) DWPZ DDZ X

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO

Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

Final plot must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

PROPERTY LINE AND CURVE TABLES			
CURVE TABLE			
CURVE	RADIUS	ARC BEARING	CHORD
C1	20.00'	S 66°38'21" E	27.84'
C2	16.00'	S 34°52'49" W	22.36'
LINE TABLE			
LINE	BEARING	LENGTH	
L1	N 26°14'30" W	50.03'	
L2	S 64°10'23" W	20.06'	
L3	N 67°38'26" E	34.20'	
L4	N 21°35'25" W	65.48'	
L5	N 68°10'32" E	162.50'	
L6	S 68°10'32" W	162.50'	
L7	N 68°15'21" E	162.53'	
L8	S 68°15'21" W	162.53'	
L9	S 21°57'17" E	68.84'	
L10	N 21°57'17" W	68.84'	

REVIEWED
 December 09, 2020
 Austin Water Utility
 Dan Luff

AUSTIN FIRE DEPARTMENT
 REVIEWER: M2418 DATE: 12/16/2020

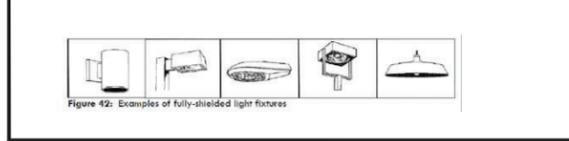
REVIEWED
 December 15, 2020
 Rachel Reddig
 Industrial Waste
 Rachel Reddig

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

SUBCHAPTER E.2.3.1 OPTIONS		NOTES
1. PROVIDE SHADED SIDEWALKS ALONG 100% OF ALL PUBLICLY VISIBLE FACADES	ALL BUILDINGS HAVE APPROX. 3' ROOF OVERHANG OR PATIO ABOVE ALL SIDEWALKS AND ENTRANCES	
2. LIMIT CURB CUTS	ONLY 1 DRIVEWAY FOR THIS DEVELOPMENT	

COMPATIBILITY NOTES:
 A. ALL EXTERIOR LIGHTING WILL BE HOODED OR SHIELDED FROM THE VIEW OF ADJACENT RESIDENTIAL PROPERTY. (SECTION 25-2-1064)
 B. ALL DUMPSTERS AND ANY PERMANENTLY PLACED REFUSE RECEPTACLES WILL BE LOCATED AT A MINIMUM OF TWENTY (20) FEET FROM A PROPERTY ZONED SF-5 OR MORE RESTRICTIVE. (SECTION 25-2-1067)
 C. THE USE OF HIGHLY REFLECTIVE SURFACES SUCH AS REFLECTIVE GLASS AND REFLECTIVE METAL ROOFS WHOSE PITCH IS MORE THAN A RUN OF SEVEN (7) TO A RISE OF TWELVE (12), WILL BE PROHIBITED. (SECTION 25-2-1067)
 D. THE NOISE LEVEL OF MECHANICAL EQUIPMENT WILL NOT EXCEED 70 DBA AT THE PROPERTY LINE ADJACENT TO RESIDENTIAL USE (SECTION 25-2-0167).

CITY OF AUSTIN SITE PLAN RELEASE NOTES:
 A. ALL IMPROVEMENTS SHALL BE MADE IN ACCORDANCE WITH THE RELEASED SITE PLAN. ANY ADDITIONAL IMPROVEMENTS WILL REQUIRE SITE PLAN AMENDMENT AND APPROVAL OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
 B. APPROVAL OF THIS SITE PLAN DOES NOT INCLUDE BUILDING AND FIRE CODE APPROVAL NOR BUILDING PERMIT APPROVAL.
 C. ALL SIGNS MUST COMPLY WITH REQUIREMENTS OF THE LAND DEVELOPMENT CODE (CHAPTER 25-10).
 D. ADDITIONAL ELECTRIC EASEMENTS MAY BE REQUIRED AT A LATER DATE.
 E. WATER AND WASTEWATER SERVICE WILL BE PROVIDED BY THE CITY OF AUSTIN.
 F. FOR DRIVEWAY CONSTRUCTION: THE OWNER IS RESPONSIBLE FOR ALL COSTS FOR RELOCATION OF, OR DAMAGE TO UTILITIES.
 G. FOR CONSTRUCTION WITHIN THE RIGHT-OF-WAY, A ROW EXCAVATION PERMIT IS REQUIRED.



- GENERAL NOTES:
 1. THIS PROJECT IS LOCATED IN THE FULL PURPOSE CITY LIMITS OF AUSTIN.
 2. REFER TO SHEET 06 FOR ON-SITE SLOPES.
 3. ALL PARKING SPACES SHALL HAVE MINIMUM 7'-0" VERTICAL CLEARANCE.
 4. WARNING SIGNS ARE REQUIRED TO BE PLACED UNDER THE OVERHEAD ELECTRIC LINES TO MAKE ALL PERSONNEL AWARE OF THE ELECTRIC HAZARD.
 5. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 6. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 7. ALL FIRE DEPARTMENT ACCESS DRIVES/ROADS TO HAVE A MINIMUM 14'-0" VERTICAL CLEARANCE.
 8. ESTABLISH FIRE ZONES AS SHOWN ON SITE BY PAINTING CURB RED, STENCIL THE WORDS, "FIRE ZONE/TOW-AWAY ZONE", IN WHITE LETTERS AT LEAST 3 INCHES HIGH AT 35-FOOT INTERVALS ALONG THE CURB. ALSO SIGNS SHALL BE POSTED AT BOTH ENDS OF A FIRE ZONE. ALTERNATE MARKING OF THE FIRE LANES ARE CLEARLY IDENTIFIED AT BOTH ENDS AND AT INTERVALS NOT TO EXCEED 35 FEET. SEC. 901.4.2.
 9. CONTRACTOR TO HAVE STAKING VERIFIED BY OWNER PRIOR TO START OF CONSTRUCTION.
 10. ALL EXTERIOR LIGHTING WILL BE FULL OUT-OFF AND FULLY SHIELDED IN COMPLIANCE WITH SUBCHAPTER E.2.5 (SEE FIGURE BELOW) AND WILL BE REVIEWED DURING BUILDING PLAN REVIEW. ANY CHANGE OR SUBSTITUTION OF LAMP/LIGHT FIXTURES SHALL BE SUBMITTED TO THE DIRECTOR FOR APPROVAL IN ACCORDANCE WITH SECTION 25.2.E.
 11. RADII TO BE 3' UNLESS OTHERWISE NOTED.
 12. REF. SHEET 08 FOR DIMENSION CONTROL PLAN.
 13. EVERY ACCESSIBLE PARKING SPACE MUST BE IDENTIFIED BY A SIGN, CENTERED AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE RESERVED, OR EQUIVALENT LANGUAGE, CHARACTERS AND SYMBOLS ON SUCH SIGNS MUST BE LOCATED 60" MINIMUM ABOVE THE GROUND SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE. [IBC 1110.1, ANSI 502.7]
 14. YARDS, FENCES, VEGETATIVE SCREENING OR BERMS SHALL BE PROVIDED TO SCREEN ADJACENT SF-5 OR MORE RESTRICTIVE RESIDENTIAL DISTRICTS FROM VIEWS OF OFF-STREET PARKING AREAS, MECHANICAL EQUIPMENT, AND STORAGE AREAS FOR REFUSE COLLECTION. [SECTION 25-2-1066]
 15. SCREENING FOR SOLID WASTE COLLECTION AND LOADING AREAS SHALL BE THE SAME AS, OR OF EQUAL QUALITY TO, PRINCIPAL BUILDING MATERIALS.

APP. Revisions No. Date

SCOTT J. FOSTER
 LICENSED PROFESSIONAL ENGINEER
 84652
 12/5/2020

PROFESSIONAL SERVICES, INC.
 360

MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

OVERALL SITE PLAN

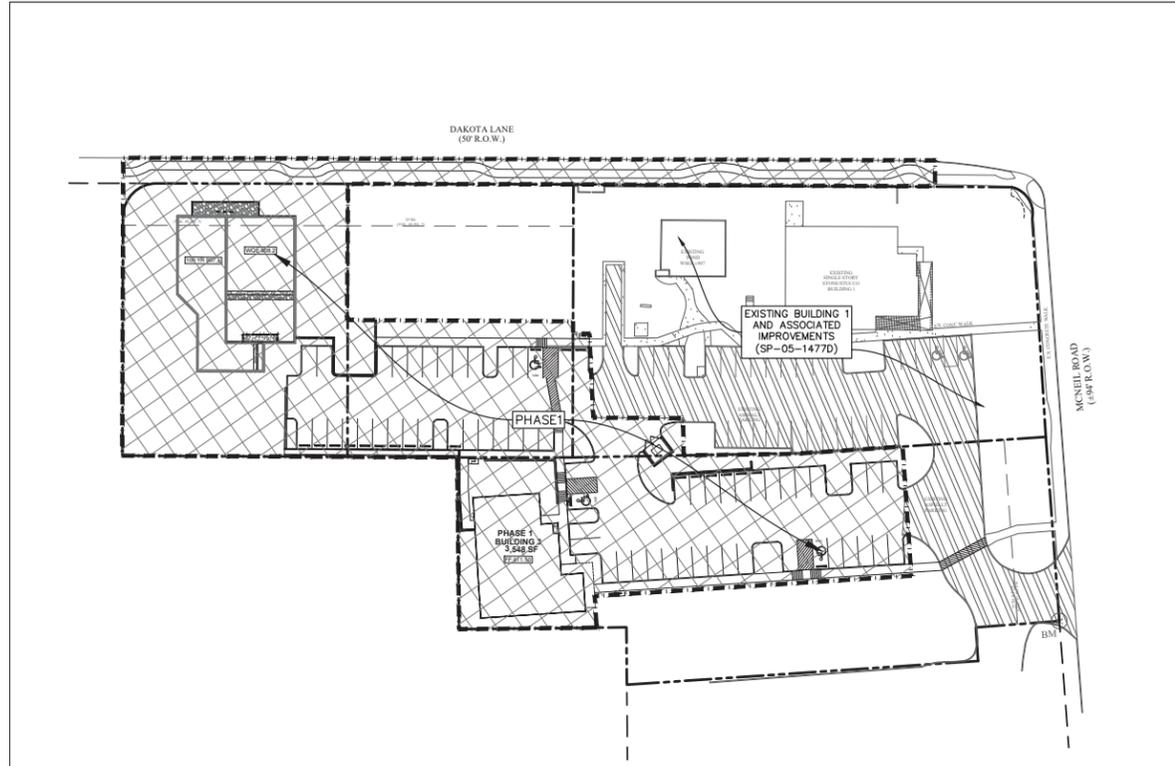
APPROVED
 Date: 12/22/2020

Scale: AS SHOWN
 Designed by:
 Drawn by:
 Checked by: DECEMBER
 Date: DECEMBER
 Project No.

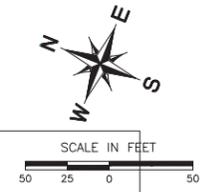
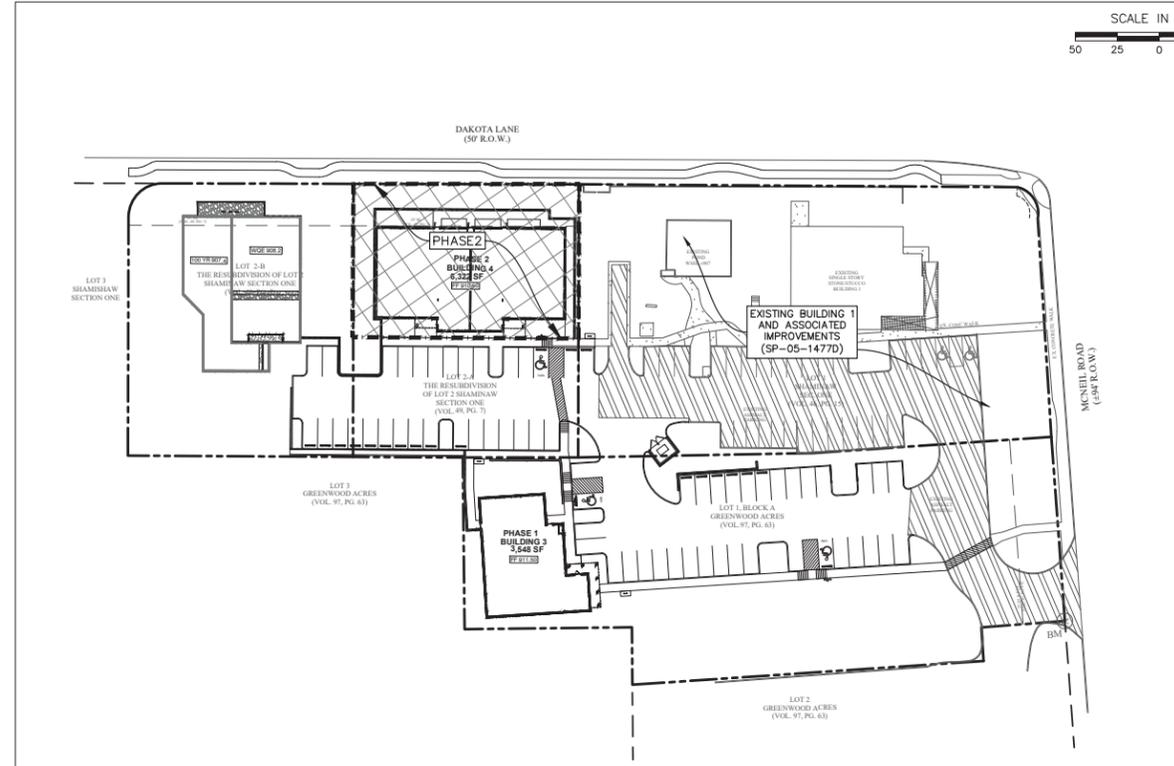
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 OF 37

SP-2019-0564C

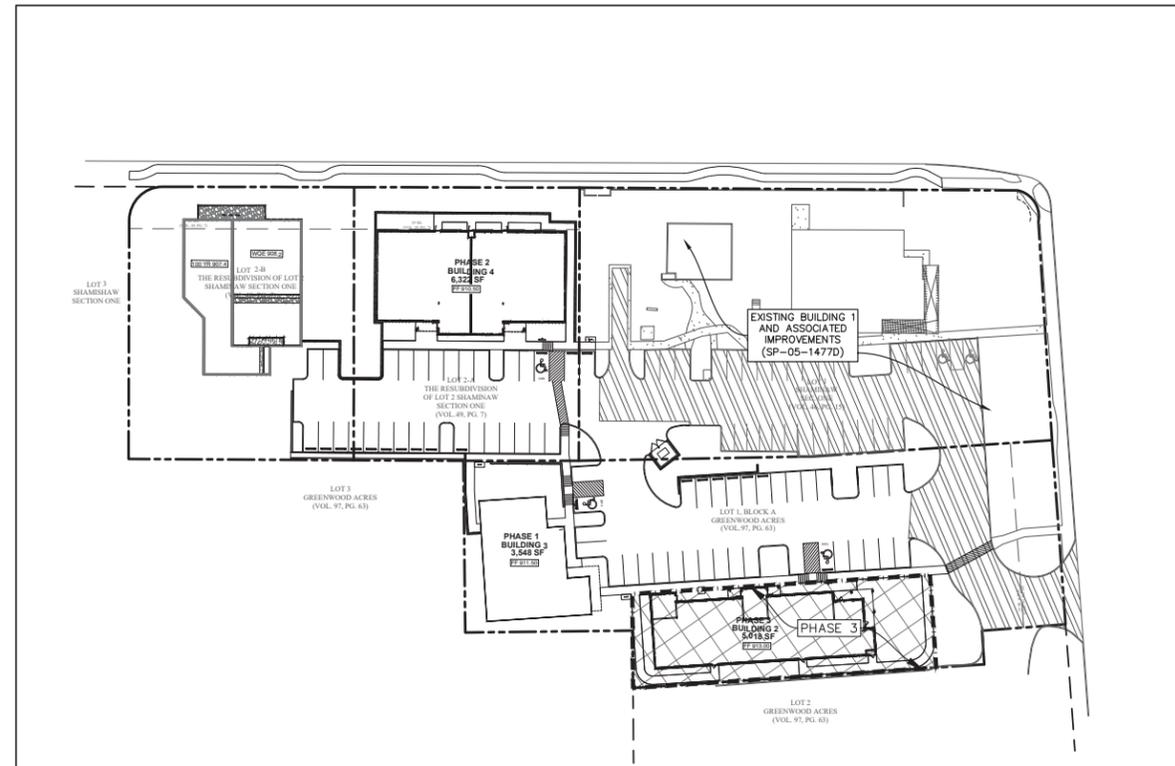
PHASE 1



PHASE 2



PHASE 3



REVIEWER: 62419 DATE: 12/10/2019

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SITE PLAN APPROVAL SHEET 10 OF 37
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Director, Development Services Department
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No.	Date	Revisions	App.



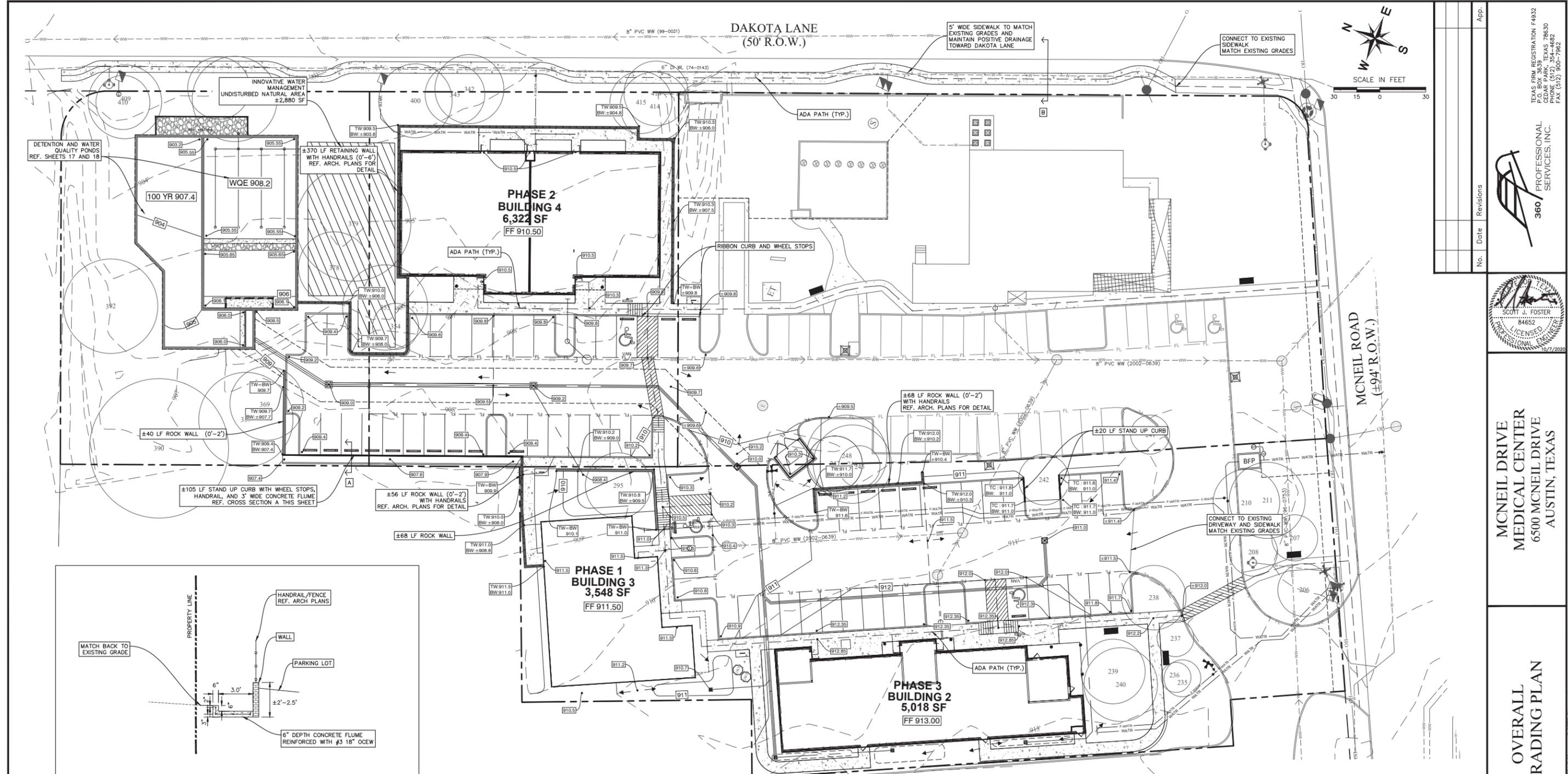
360 PROFESSIONAL SERVICES, INC.
TEAS FIRM REGISTRATION F4832
P.O. BOX 7493
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4882
FAX (512) 360-7882

MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

PHASED SITE PLAN

Scale: AS SHOWN
Designed by:
Drawn by:
Checked by: NOVEMBER
Date: 2/27/2021
Project No.
SHEET
10
OF
37
SP-2019-0564C

LAYOUT: Sheet PLOT DATE: 11/7/2020 10:35am PLOTTED BY: merrill

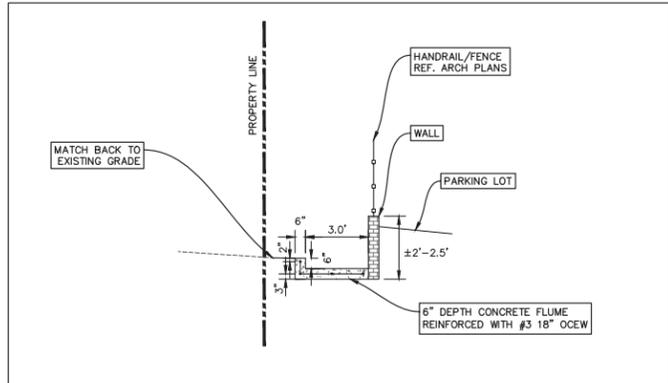


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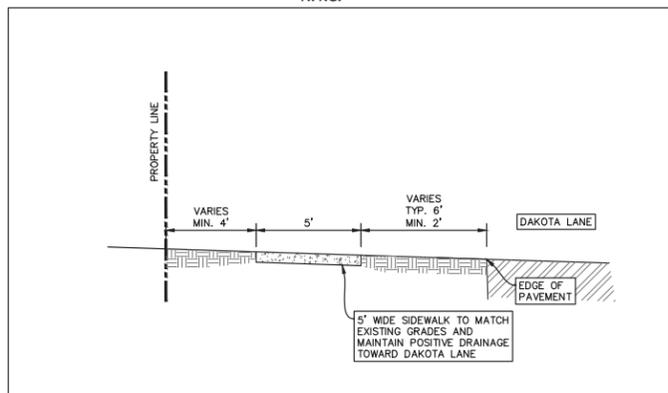


MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

OVERALL GRADING PLAN



GRADING CROSS-SECTION SCHEMATIC A
N.T.S.



GRADING CROSS-SECTION SCHEMATIC B
N.T.S.

LEGEND

910 ---	EXIST. CONTOURS
910	PROP. CONTOURS
911.5	PROP. SPOT GRADE
±911.5	PROP. SPOT GRADE MATCH EXISTING

- NOTES:**
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DEVELOPMENT PERMIT NO. SP-2019-0564C

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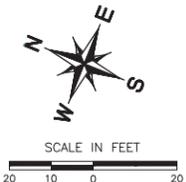
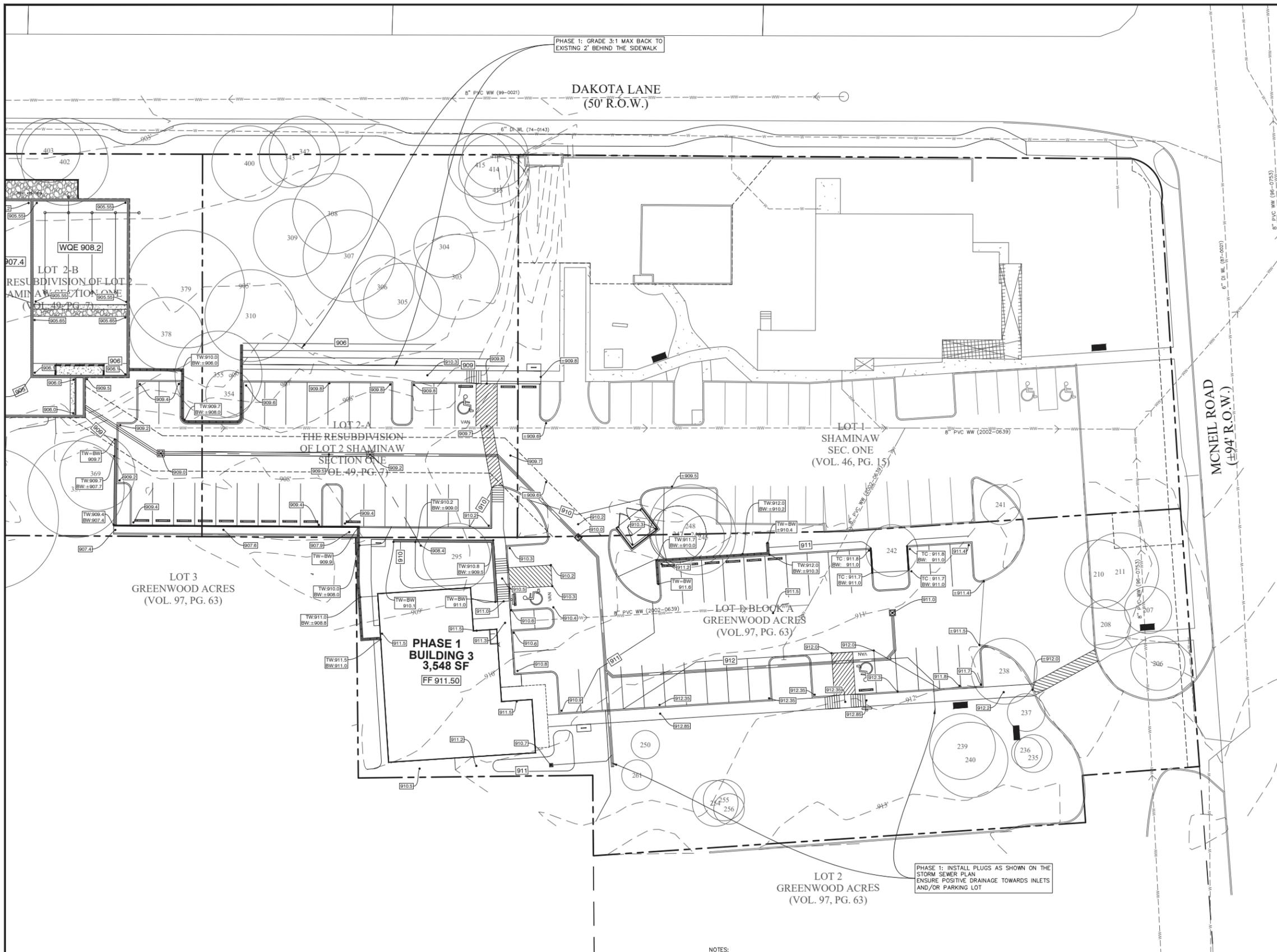
SITE PLAN APPROVAL SHEET 12 OF 37
 FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
 APPROVED BY COMMISSION ON _____ UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-5-81.LDC) _____ CASE MANAGER J. SULTANA
 PROJECT EXPIRATION DATE (ORD.9970905-A) _____ DWPZ DDZ X

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: _____ ZONING LO AND GO

Rev. 1 _____ Correction 1
 Rev. 2 _____ Correction 2
 Rev. 3 _____ Correction 3

Scale: AS SHOWN
 Designed by: _____
 Drawn by: _____
 Checked by: _____
 Date: OCTOBER 2021
 Project No. _____
 SHEET 12 OF 37
 SP-2019-0564C

TEXAS PROFESSIONAL ENGINEER REGISTRATION F4832
 P.O. BOX 7630 CEDAR PARK, TEXAS 78630
 PHONE (512) 354-4682 FAX (512) 360-7882
 360 PROFESSIONAL SERVICES, INC.
 SCOTT J. FOSTER 84852 LICENSED PROFESSIONAL ENGINEER 10/27/2020
 MCNEIL DRIVE MEDICAL CENTER 6500 MCNEIL DRIVE AUSTIN, TEXAS
 OVERALL GRADING PLAN
 DEVELOPMENT PERMIT NO. SP-2019-0564C
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 LAYOUT: T1 - PLOT DATE: 10/9/2020 - 10:30 AM PLOTTED BY: merr
 DATE: 10/27/2021 10:48 AM



No.	Date	Revisions	App.



MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

**PHASE 1
 GRADING PLAN**

Scale: AS SHOWN
 Designed by: _____
 Drawn by: _____
 Checked by: _____
 Date: OCTOBER 2019
 Project No. _____
 SHEET
13
 OF 37
 SP-2019-0564C

DEVELOPMENT PERMIT NO. SP-2019-0564C

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Director, Development Services Department
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Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

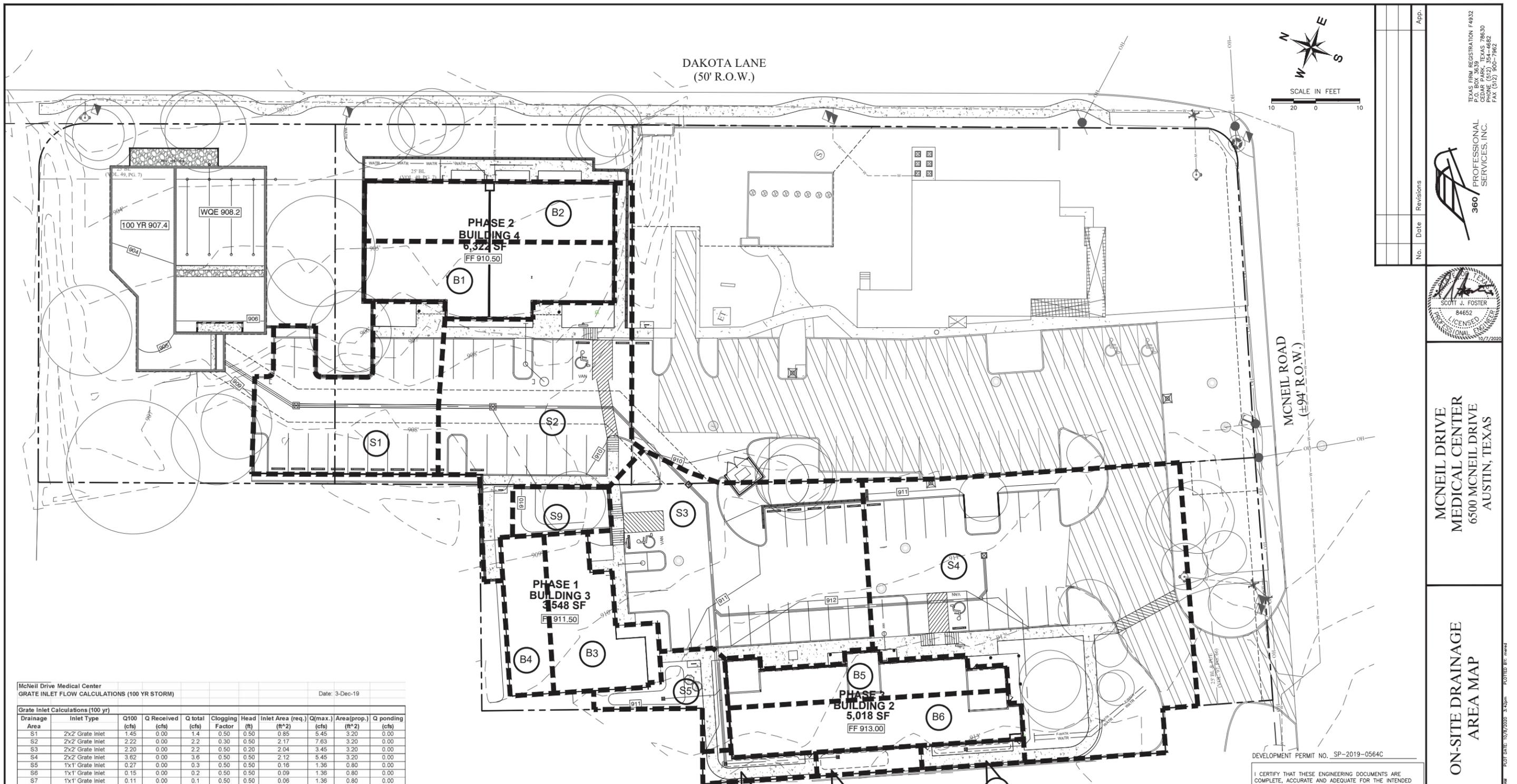
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LAYOUT: 2 PLOT DATE: 10/9/2020 8:10am PLOTTED BY: mers



McNeil Drive Medical Center
GRATE INLET FLOW CALCULATIONS (100 YR STORM) Date: 3-Dec-19

Drainage Area	Inlet Type	Q100 (cfs)	Q Received (cfs)	Q total (cfs)	Clogging Factor	Head (ft)	Inlet Area (req.) (ft ²)	Q(max.) (cfs)	Area(prop.) (ft ²)	Q ponding (cfs)
S1	2x2' Grate Inlet	1.45	0.00	1.4	0.50	0.50	0.85	5.45	3.20	0.00
S2	2x2' Grate Inlet	2.22	0.00	2.2	0.30	0.50	2.17	7.63	3.20	0.00
S3	2x2' Grate Inlet	2.20	0.00	2.2	0.50	0.20	2.04	3.45	3.20	0.00
S4	2x2' Grate Inlet	3.62	0.00	3.6	0.50	0.50	2.12	5.45	3.20	0.00
S5	1x1' Grate Inlet	0.27	0.00	0.3	0.50	0.50	0.16	1.36	0.80	0.00
S6	1x1' Grate Inlet	0.15	0.00	0.2	0.50	0.50	0.09	1.36	0.80	0.00
S7	1x1' Grate Inlet	0.11	0.00	0.1	0.50	0.50	0.06	1.36	0.80	0.00
S8	1x1' Grate Inlet	0.12	0.00	0.1	0.50	0.50	0.07	1.36	0.80	0.00

System I.D.	Time of Concentration (Minutes)	Drainage Area (Acres)	% Impervious Cover	Acres Impervious Cover	100-Year Storm Event			25-Year Storm Event			10-Year Storm Event			2-Year Storm Event		
					Design Flow (Q) by Rational Method			Design Flow (Q) by Rational Method			Design Flow (Q) by Rational Method			Design Flow (Q) by Rational Method		
					Intensity "I" (in/hr)	Runoff Coefficient	Design Flow (cfs)	Intensity "I" (in/hr)	Runoff Coefficient	Design Flow (cfs)	Intensity "I" (in/hr)	Runoff Coefficient	Design Flow (cfs)	Intensity "I" (in/hr)	Runoff Coefficient	Design Flow (cfs)
S1	5.0	0.13	90%	0.12	12.54	0.90	1.4	10.11	0.81	1.1	8.57	0.76	0.8	5.76	0.69	0.5
S2	5.0	0.20	85%	0.17	12.54	0.88	2.2	10.11	0.79	1.6	8.57	0.74	1.3	5.76	0.66	0.8
S3	5.0	0.20	85%	0.17	12.54	0.88	2.2	10.11	0.79	1.6	8.57	0.74	1.3	5.76	0.66	0.8
S4	5.0	0.37	65%	0.24	12.54	0.78	3.6	10.11	0.70	2.6	8.57	0.65	2.1	5.76	0.58	1.2
S5	5.0	0.03	50%	0.02	12.54	0.71	0.3	10.11	0.63	0.2	8.57	0.58	0.1	5.76	0.51	0.1
S6	5.0	0.01	80%	0.01	12.54	0.85	0.2	10.11	0.77	0.1	8.57	0.72	0.1	5.76	0.64	0.1
S7	5.0	0.01	50%	0.01	12.54	0.71	0.1	10.11	0.63	0.1	8.57	0.58	0.1	5.76	0.51	0.0
S8	5.0	0.01	80%	0.01	12.54	0.85	0.1	10.11	0.77	0.1	8.57	0.72	0.1	5.76	0.64	0.0
S9	5.0	0.02	10%	0.00	12.54	0.51	0.1	10.11	0.44	0.1	8.57	0.40	0.1	5.76	0.33	0.0
B1	5.0	0.08	100%	0.08	12.54	0.95	0.9	10.11	0.86	0.7	8.57	0.81	0.5	5.76	0.73	0.3
B2	5.0	0.07	100%	0.07	12.54	0.95	0.8	10.11	0.86	0.6	8.57	0.81	0.5	5.76	0.73	0.3
B3	5.0	0.05	100%	0.05	12.54	0.95	0.6	10.11	0.86	0.4	8.57	0.81	0.3	5.76	0.73	0.2
B4	5.0	0.03	100%	0.03	12.54	0.95	0.4	10.11	0.86	0.3	8.57	0.81	0.2	5.76	0.73	0.1
B5	5.0	0.05	100%	0.05	12.54	0.95	0.6	10.11	0.86	0.4	8.57	0.81	0.4	5.76	0.73	0.2
B6	5.0	0.06	100%	0.06	12.54	0.95	0.8	10.11	0.86	0.6	8.57	0.81	0.4	5.76	0.73	0.3

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SITE PLAN APPROVAL SHEET 14 OF 37
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EXPIRATION DATE (25-5-81.LDC) _____ CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.#970905-A) _____ DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: _____ ZONING LD AND GO

App. _____
Revisions _____
Date _____
No. _____

PROFESSIONAL SERVICES, INC.
360

TEXAS FIRM REGISTRATION F4832
P.O. BOX 7630
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4882
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MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

ON-SITE DRAINAGE
AREA MAP

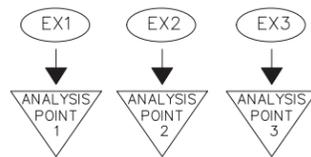
Scale: AS SHOWN
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Checked by: _____
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Project No. _____

CITY OF AUSTIN
APPROVED
DATE 2/27/2021

SHEET
14
OF 37

SP-2019-0564C

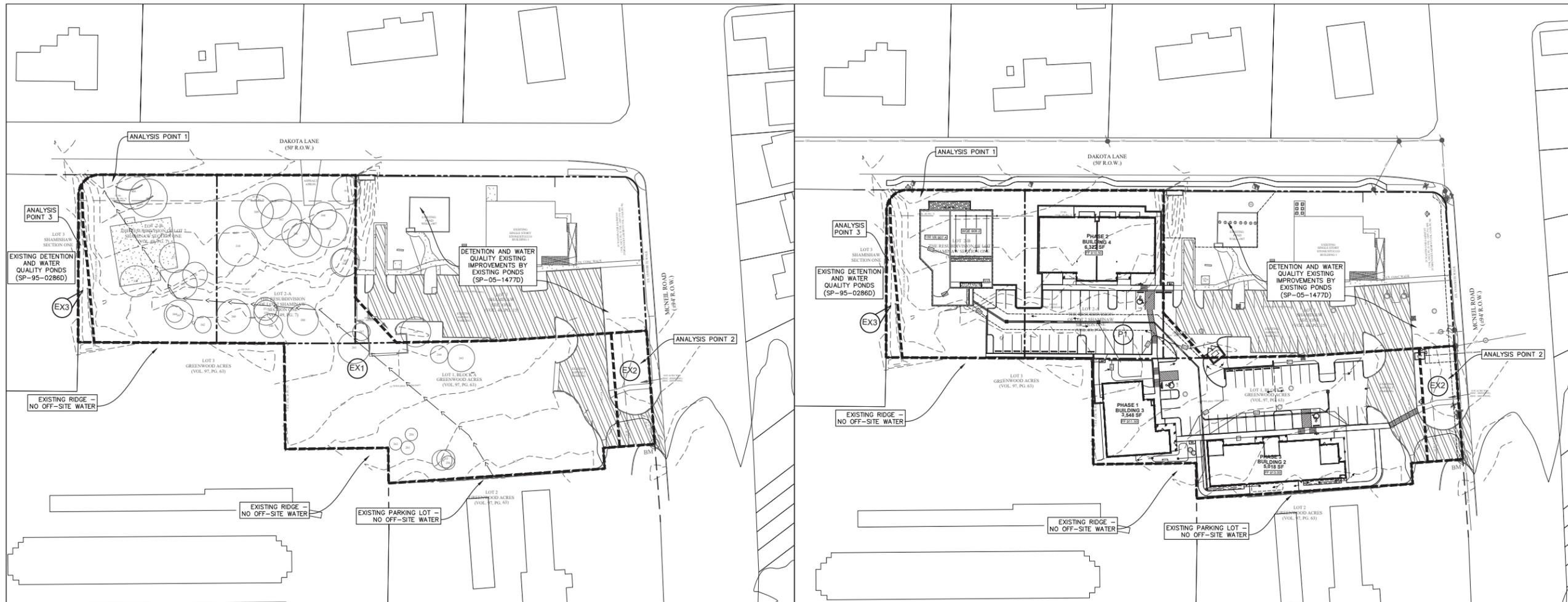
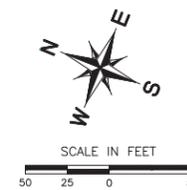
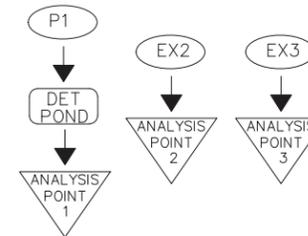
EXISTING CONDITIONS



SCS METHOD SUMMARY										
Area ID	DA (ac.)	IC (ac.)	IC (%)	TOC (min.)	TOC (hr.)	CN	Q2	Q10	Q25	Q100
EX1	1.89	0.19	10%	10	0.17	81.8	2.9	6.9	9.3	13.3
EX2	0.09	0.03	40%	5	0.08	87.2	0.2	0.4	0.5	0.7
EX3	0.01	0.00	0%	5	0.08	80.0	0.0	0.0	0.1	0.1
P1	1.89	1.23	65%	7	0.12	91.7	4.6	9.0	11.5	15.5
CN: D Type Good Condition:						80				
Impervious Cover:						98				

ANALYSIS POINT 1 SUMMARY FLOW SUMMARY (CFS)				
	2 YR	10 YR	25 YR	100 YR
ANALYSIS POINT 1				
EXISTING	2.9	6.9	9.3	13.3
PROPOSED	2.6	6.7	9.0	12.8

PROPOSED CONDITIONS



No.	Date	Revisions	App.



MCNEIL DRIVE
MEDICAL CENTER
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AUSTIN, TEXAS

OVERALL DRAINAGE
AREA MAPS

DEVELOPMENT PERMIT NO. SP-2019-0564C

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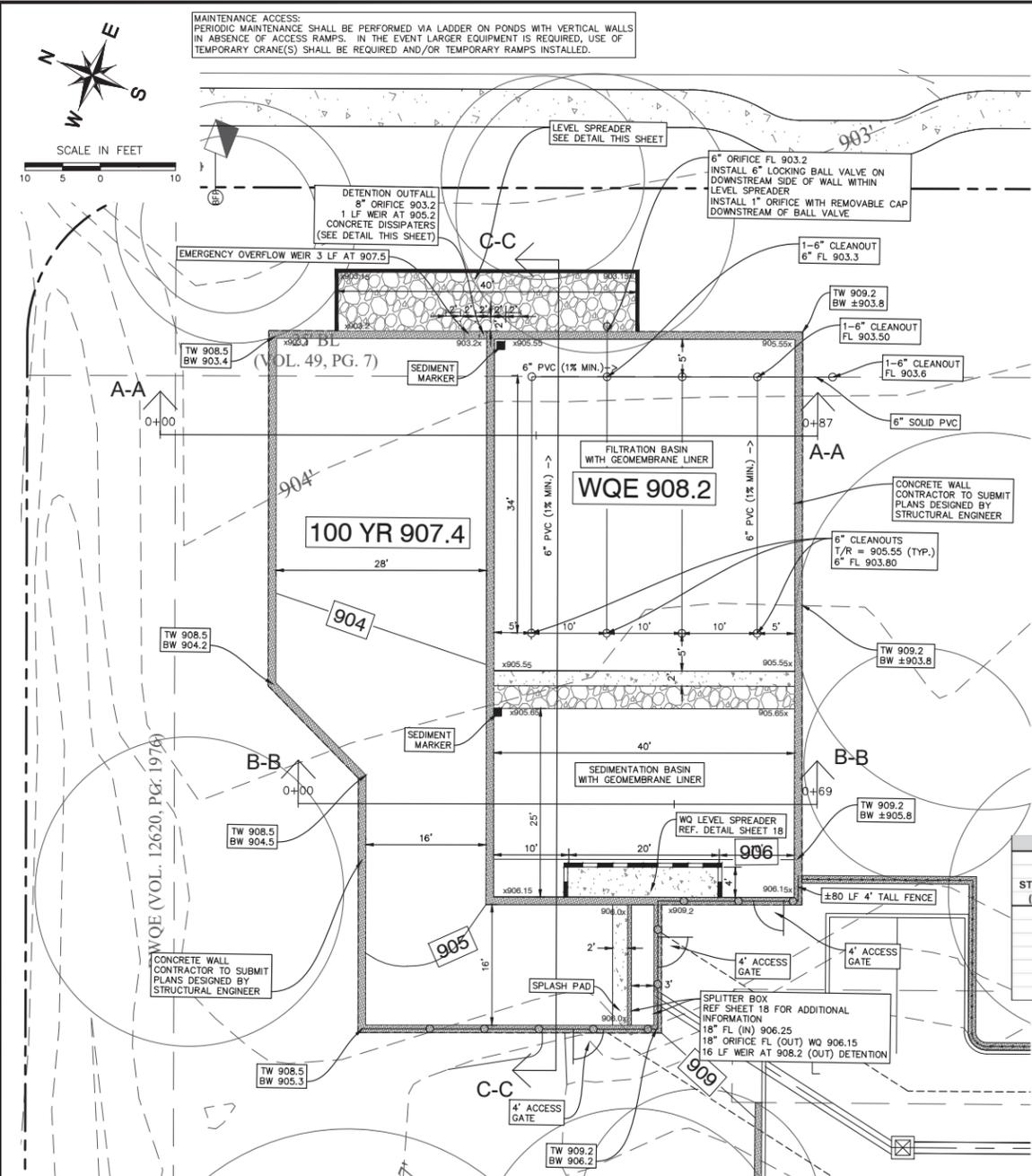
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PROJECT EXPIRATION DATE (ORD.#970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO
Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3
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Designed by:
Drawn by:
Checked by:
Date: NOVEMBER 2021
Project No.
SHEET 16 OF 37
SP-2019-0564C

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 CEDAR PARK, TEXAS 78630
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 FAX (512) 350-7882
 360 PROFESSIONAL SERVICES, INC.
 SCOTT J. FOSTER 84852
 LICENSED PROFESSIONAL ENGINEER
 1/8/2020
 MCNEIL DRIVE MEDICAL CENTER 6500 MCNEIL DRIVE AUSTIN, TEXAS
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APPENDIX R-3 PARTIAL SEDIMENTATION/FILTRATION POND CALCULATIONS FOR DEVELOPMENT PERMITS

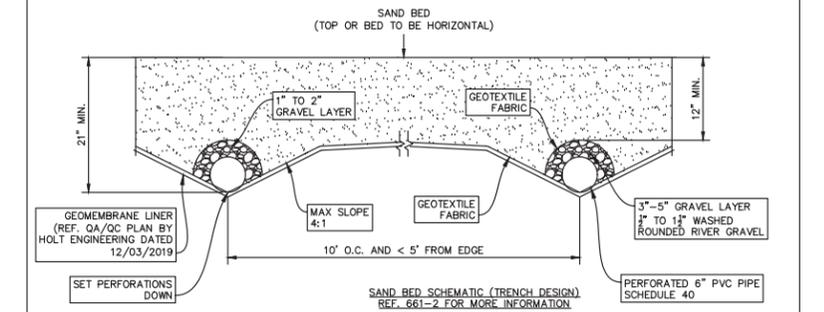
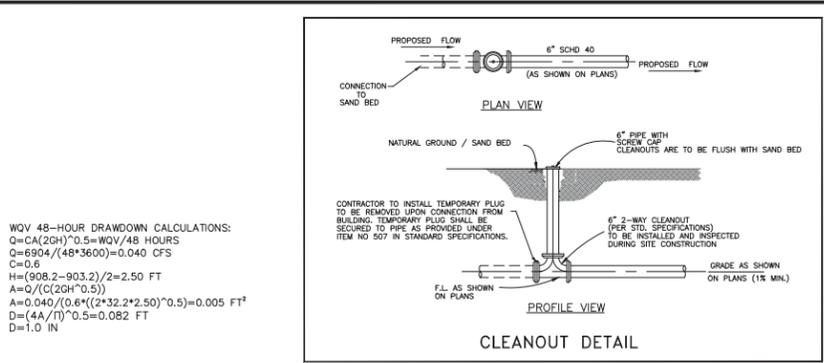
DRAINAGE AREA DATA:			
Drainage Area to Control (DA)		1.9 ac	
Drainage Area Impervious Cover		1.2 ac	
Drainage Area Impervious Cover		65 %	
Capture Depth (CD)		0.079 ft	

WATER QUALITY CONTROL CALCULATIONS:		Required	Provided
25-year Peak Flow Rate Control (Q25)			11.5 cfs
100-year Peak Flow Rate Control (Q100)			22.8 cfs
Water Quality Volume	(CDxAreax360)	6503 cf	6904 cf
Maximum Ponding Depth above Sand Bed (H)		2.65 ft	2.65 ft
Sedimentation Pond Area		N/A sf	1000 sf
Sedimentation Pond Volume	(min. WQV/0.2)	1301 cf	2040 cf
Filtration Pond Area	(WQV/(411x3.14H))	864 sf	1760 sf
Filtration Pond Volume			4312 cf
Water Quality Elevation			908.20 ft
Elevation of Splitter/Overflow Weir	(min. WQ WSEL)		908.20 ft
Height Gabion Wall	(WQ WSEL - 0.5)		907.70 ft
Length of Splitter Weir			16.00 ft
Required Head to Pass Q100	(max. 1.0 ft)		0.50 ft
Pond Freeboard Provided	(min. 0.25 ft)		1.00 ft
48 Hr Drawdown Time Orifice Opening Dia.	(CA(2gh) ^{0.5})	1.00 in.	1.00 in.

SEDIMENTATION POND:			
Stage (ft msl)	Area (sf)	Storage (cf)	
905.65	0	0	
906.00	800	140	
907.00	1000	1040	
908.00	1000	2040	
908.20	1000	2240	WATER QUALITY ELEVATION
909.20	1000	3240	

FILTRATION POND:			
Stage (ft msl)	Area (sf)	Storage (cf)	
905.55	1760	0	
906.00	1760	792	
907.00	1760	2552	
908.00	1760	4312	
908.20	1760	4684	WATER QUALITY ELEVATION
909.20	1760	6424	

SEDIMENTATION/FILTRATION POND:			
Stage (ft msl)	Area (sf)	Cum. Storage (cf)	
905.55	1760	0	
906.00	2660	932	
907.00	2760	3592	
908.00	2760	6352	
908.20	2760	6904	WATER QUALITY ELEVATION
909.20	2760	9664	



Sand Bed with Gravel Layer (Standard Details 661-1 and 661-2). The top layer is to be a minimum of eighteen (18) inches of 0.02-0.04 inch diameter sand which corresponds with ASTM C-33 concrete sand (smaller sand size is not acceptable). Under the sand shall be a layer of one-half (0.5) to one and one-half (1.5) inch diameter washed, rounded, river gravel which provides three (3) inches to five (5) inches of cover over the top of the underdrain lateral pipes and geotextile fabric. The geotextile fabric is needed to prevent the filter media from infiltrating into the lateral piping. The geotextile fabric specifications are shown in Standard Specification 6205, Table 2: High Flow Filter Fabric Requirements.

Sand Bed with Trench Design (Standard Details 661-1 and 661-2). The top layer shall be twelve (12) to eighteen (18) inches of 0.02-0.04 inch diameter sand which corresponds with ASTM C-33 concrete sand (smaller sand size is not acceptable). Laterals shall be placed in trenches with a covering of one-half (0.5) to one and one-half (1.5) inch diameter washed, rounded river gravel which provides three (3) inches to five (5) inches of cover over the top of the underdrain lateral pipes and geotextile fabric. The geotextile fabric is needed to prevent the filter media from infiltrating into the lateral piping. The geotextile fabric specifications are shown in Standard Specification 6205, Table 2: High Flow Filter Fabric Requirements.

Standard Specification 6205, Table 2
TABLE 2: HIGH FLOW FILTER FABRIC REQUIREMENTS

Property	Test Method	Requirements
Fabric Weight	> 3776	3.0 ounces/square
UV Radiation Stability	D 4355	70% strength retained
Mullen Burst Strength	D 3786	120 pound per square inch minimum
Water Flow Rate	D 4491	275 gallons/minute/square foot minimum

Underdrain Piping
The underdrain piping consists of the main collector pipe(s) and perforated lateral branch pipes. The piping should be reinforced to withstand the weight of the overburden. Internal diameters of lateral branch pipes should be six (6) inches or greater and perforations should be three-eighths (3/8) inch. All piping is to be schedule 40 polyvinyl chloride (PVC) or greater strength. The maximum spacing for the laterals should be ten (10) feet between laterals and five (5) feet from a wall or side. Lesser spacings are acceptable. The maximum spacing between rows of perforations should not exceed six (6) inches.

Basin Liner
Impermeable liner requirements and specifications are located in Section 1.6.2(C).

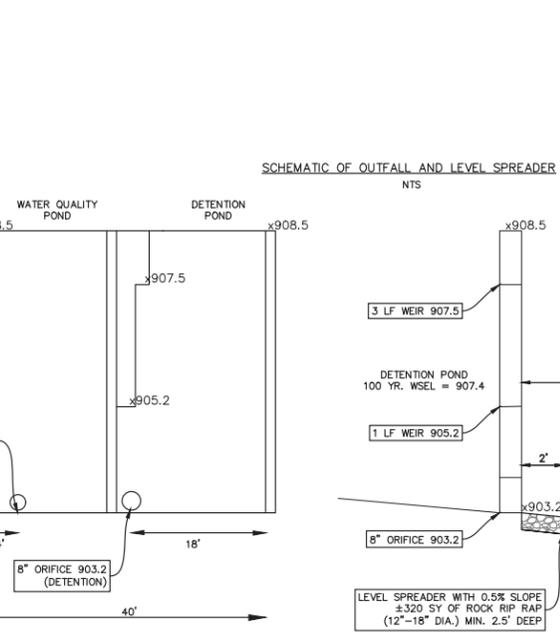
Outfall
The surface discharge from the underdrain pipe shall be non-erosive. Where feasible the underdrain pipe should discharge to a gravel trench in order to diffuse the flow and promote infiltration and recharge. See Figure 1-52 in Appendix V. If a gravel trench is not feasible other options are shown in the Standard Details 508S-16 through 20.

Detention Pond Stage/Volume/Discharge

STAGE (FT)	CONTOUR AREA (AC)	CONICAL AREA (SF)	INCREMENTAL VOLUME (ac-ft)	CUMULATIVE VOLUME (ac-ft)	CUMULATIVE VOLUME (CF)	Orifice #1 size (in)	Orifice #1 length (ft)	Orifice #2 size (in)	Orifice #2 length (ft)	Orifice #3 size (in)	Orifice #3 length (ft)	Orifice TOTAL Q (cfs)
903.2	0.000	0	0.000	0.000	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
904.0	0.024	1057	0.008	0.008	352	1.2	0.0	1.2	0.0	1.2	0.0	1.2
905.0	0.044	4406	0.034	0.042	1819	2.0	0.0	2.0	0.0	2.0	0.0	2.0
906.0	0.058	6680	0.051	0.093	4043	4.8	2.2	6.9	1.2	6.9	1.2	6.9
907.0	0.058	7633	0.058	0.151	6585	10.4	7.2	17.6	1.2	17.6	1.2	17.6
908.0	0.058	7633	0.058	0.210	9127	17.6	14.1	31.7	1.2	31.7	1.2	31.7
908.5	0.058	7633	0.029	0.239	10398	21.7	18.0	39.7	1.2	39.7	1.2	39.7

DETENTION ROUTING SUMMARY

STORM EVENT	INFLOW	OUTFLOW	WSEL
2-YEAR	4.6	2.6	905.4
10-YEAR	9.0	6.7	906.4
25-YEAR	11.5	9.0	906.8
100-YEAR	15.5	12.5	907.4

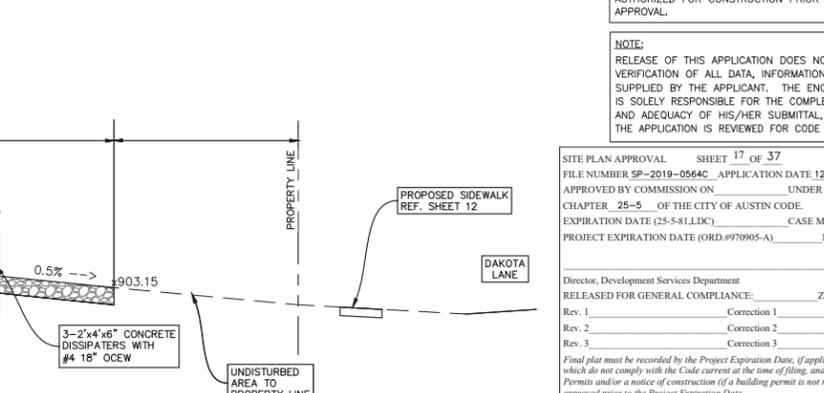
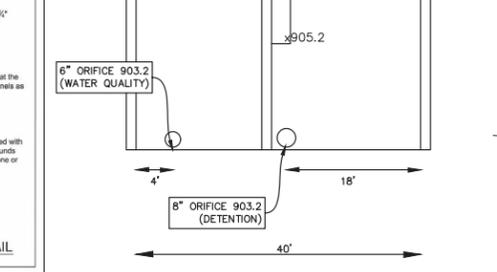
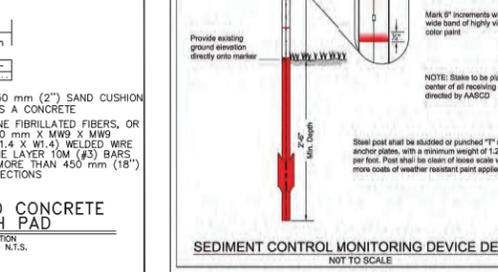
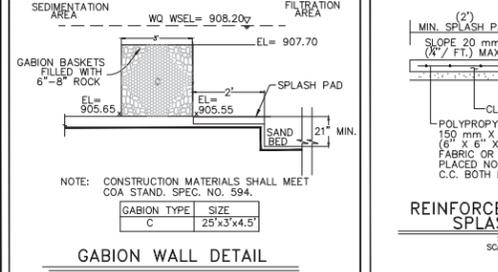


Diversion Structure Calculations:

Flow into WQ Pond:		Q(25)=	11.5 C.F.S.
Pipe Size	1.50		
Q(allow)		12.9 C.F.S.	
Velocity		1.8 F.P.S.	

Weir within Splitter to Detention Pond:		Q(100)=	15.5 C.F.S.
Opening Height	0.5		
Length	16.00		
Q(allow)		19.0 C.F.S. <td></td>	

Emergency Overflow Detention Pond:		Q(100)=	3.00
Opening Height	0.50		
Length	3.00		
Q(allow)		3.55 C.F.S. <td></td>	



APP. _____
 No. _____
 Date _____
 Revisions _____

STATE OF TEXAS
 PROFESSIONAL ENGINEER
 84652
 SCOTT J. FOSTER
 LICENSED PROFESSIONAL ENGINEER
 10/7/2020

**MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS**

**WATER QUALITY AND
DETENTION POND PLAN
(PRIVATE)**

Scale: AS SHOWN
 Designed by: _____
 Drawn by: _____
 Checked by: _____
 Date: OCTOBER 2019
 Project No. SP-2019-0564C

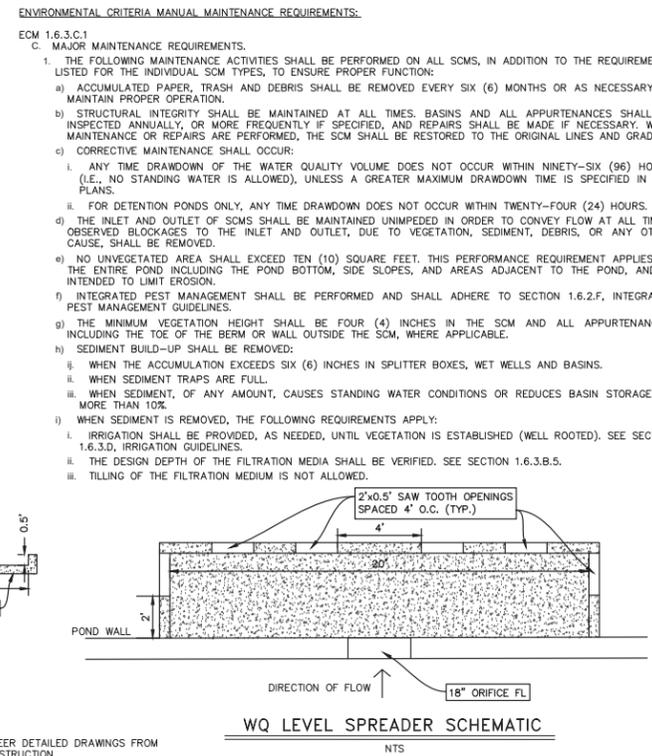
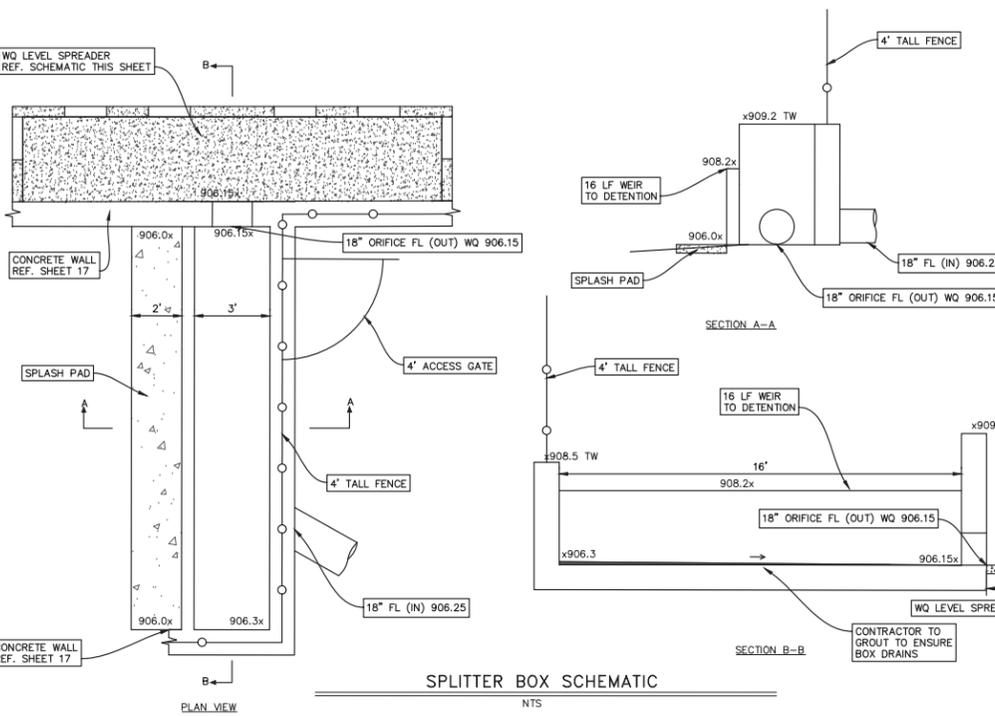
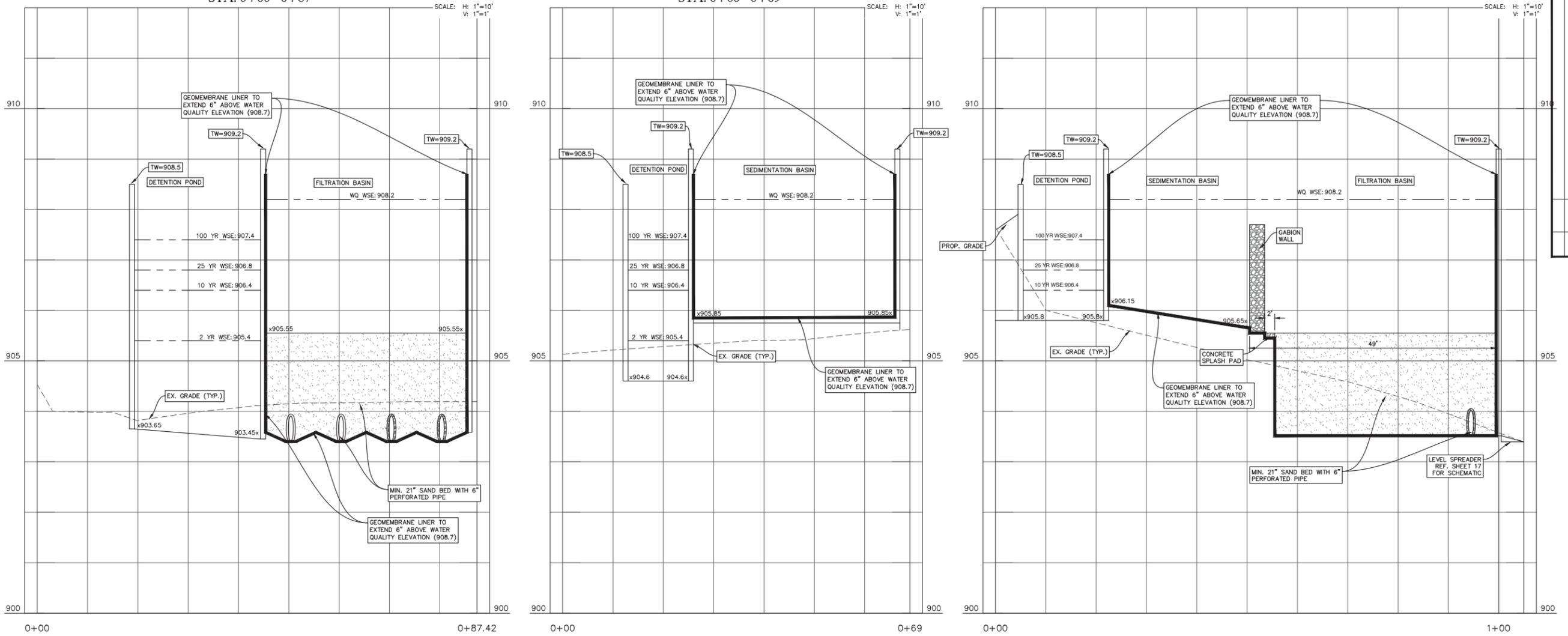
SHEET
17
 OF 37

SP-2019-0564C

CROSS SECTION A-A
STA. 0+00 - 0+87

CROSS SECTION B-B
STA. 0+00 - 0+69

CROSS SECTION C-C
STA. 0+00 - 1+05



ENVIRONMENTAL CRITERIA MANUAL MAINTENANCE REQUIREMENTS:

- ECM 1.6.3.C.1
C. MAJOR MAINTENANCE REQUIREMENTS.
- THE FOLLOWING MAINTENANCE ACTIVITIES SHALL BE PERFORMED ON ALL SCMS, IN ADDITION TO THE REQUIREMENTS LISTED FOR THE INDIVIDUAL SCM TYPES, TO ENSURE PROPER FUNCTION:
 - ACCUMULATED PAPER, TRASH AND DEBRIS SHALL BE REMOVED EVERY SIX (6) MONTHS OR AS NECESSARY TO MAINTAIN PROPER OPERATION.
 - STRUCTURAL INTEGRITY SHALL BE MAINTAINED AT ALL TIMES. BASINS AND ALL APPURTENANCES SHALL BE INSPECTED ANNUALLY, OR MORE FREQUENTLY IF SPECIFIED, AND REPAIRS SHALL BE MADE IF NECESSARY. WHEN MAINTENANCE OR REPAIRS ARE PERFORMED, THE SCM SHALL BE RESTORED TO THE ORIGINAL LINES AND GRADES.
 - CORRECTIVE MAINTENANCE SHALL OCCUR:
 - ANY TIME DRAWDOWN OF THE WATER QUALITY VOLUME DOES NOT OCCUR WITHIN NINETY-SIX (96) HOURS (I.E., NO STANDING WATER IS ALLOWED), UNLESS A GREATER MAXIMUM DRAWDOWN TIME IS SPECIFIED IN THE PLANS.
 - FOR DETENTION PONDS ONLY, ANY TIME DRAWDOWN DOES NOT OCCUR WITHIN TWENTY-FOUR (24) HOURS.
 - THE INLET AND OUTLET OF SCMS SHALL BE MAINTAINED UNIMPEDED IN ORDER TO CONVEY FLOW AT ALL TIMES. OBSERVED BLOCKAGES TO THE INLET AND OUTLET, DUE TO VEGETATION, SEDIMENT, DEBRIS, OR ANY OTHER CAUSE, SHALL BE REMOVED.
 - NO UNVEGETATED AREA SHALL EXCEED TEN (10) SQUARE FEET. THIS PERFORMANCE REQUIREMENT APPLIES TO THE ENTIRE POND INCLUDING THE POND BOTTOM, SIDE SLOPES, AND AREAS ADJACENT TO THE POND, AND IS INTENDED TO LIMIT EROSION.
 - INTEGRATED PEST MANAGEMENT SHALL BE PERFORMED AND SHALL ADHERE TO SECTION 1.6.2.F, INTEGRATED PEST MANAGEMENT GUIDELINES.
 - THE MINIMUM VEGETATION HEIGHT SHALL BE FOUR (4) INCHES IN THE SCM AND ALL APPURTENANCES, INCLUDING THE TOE OF THE BERM OR WALL OUTSIDE THE SCM, WHERE APPLICABLE.
 - SEDIMENT BUILD-UP SHALL BE REMOVED:
 - WHEN THE ACCUMULATION EXCEEDS SIX (6) INCHES IN SPLITTER BOXES, WET WELLS AND BASINS.
 - WHEN SEDIMENT TRAPS ARE FULL
 - WHEN SEDIMENT, OF ANY AMOUNT, CAUSES STANDING WATER CONDITIONS OR REDUCES BASIN STORAGE BY MORE THAN 10%.
 - WHEN SEDIMENT IS REMOVED, THE FOLLOWING REQUIREMENTS APPLY:
 - IRRIGATION SHALL BE PROVIDED, AS NEEDED, UNTIL VEGETATION IS ESTABLISHED (WELL ROOTED). SEE SECTION 1.6.3.D, IRRIGATION GUIDELINES.
 - THE DESIGN DEPTH OF THE FILTRATION MEDIA SHALL BE VERIFIED. SEE SECTION 1.6.3.B.5.
 - TILLING OF THE FILTRATION MEDIUM IS NOT ALLOWED.

TCEQ RG-348

3.4.2 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.

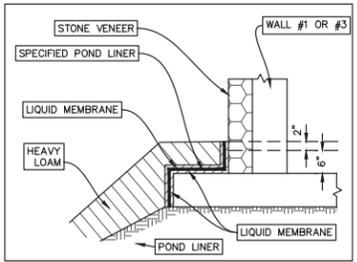
If a geomembrane liner is used it should have a minimum thickness of 30 mils and be ultraviolet resistant. Suitable geotextile fabric should be placed on the top and bottom of the membrane for puncture protection and the liners covered with a minimum of 6 inches of compacted topsoil. The geotextile fabric (for protection of geomembrane) should be nonwoven geotextile fabric and meet the specifications in Table 3-7. 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. 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 geotextile fabric (for protection of geomembrane) should be nonwoven geotextile fabric and meet the specifications in Table 3-7. The topsoil should be stabilized with appropriate vegetation.

Table 3-7 Geotextile Fabric Specifications (COA, 2004)

Property	Test Method	Unit	Specification
Unit Weight	ASTM D-5261	oz/yd ²	8
Filtration Rate	ASTM D-4491	cm/sec	0.20
Puncture Strength	ASTM D-4833	lb	125
Mullen Burst Strength	ASTM D-3786	psi	400
Tensile Strength	ASTM D-4632	lb	200
Equiv. Opening Size	US Standard Sieve	No.	80

Installation methods for GCLs and geomembrane liners vary according to the site requirements. Figure 3-15 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.



DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

NOTE: RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY OF AUSTIN.

SITE PLAN APPROVAL SHEET 18 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.0970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LD AND GO

Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

APP. _____
Revisions _____
No. _____ Date _____

TECHNICAL REGISTRATION F4832
P.O. BOX 7630
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4882
FAX (512) 360-7882

PROFESSIONAL SERVICES, INC.
360

MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

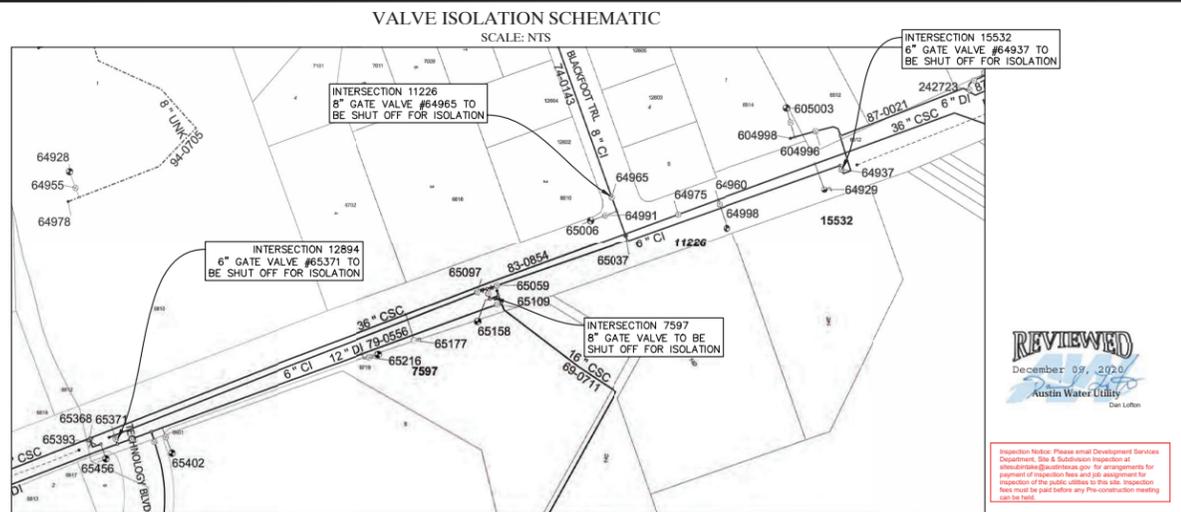
WATER QUALITY AND
DETENTION POND
CROSS SECTIONS
(PRIVATE)

Scale: AS SHOWN
Designed by: _____
Drawn by: _____
Checked by: _____
Date: OCTOBER 2021
Project No. _____

CITY OF AUSTIN
APPROVED
Date 2/27/2021

SHEET
18
OF 37

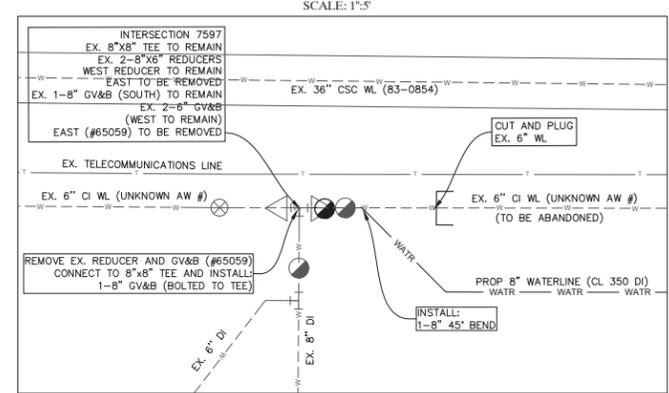
SP-2019-0564C



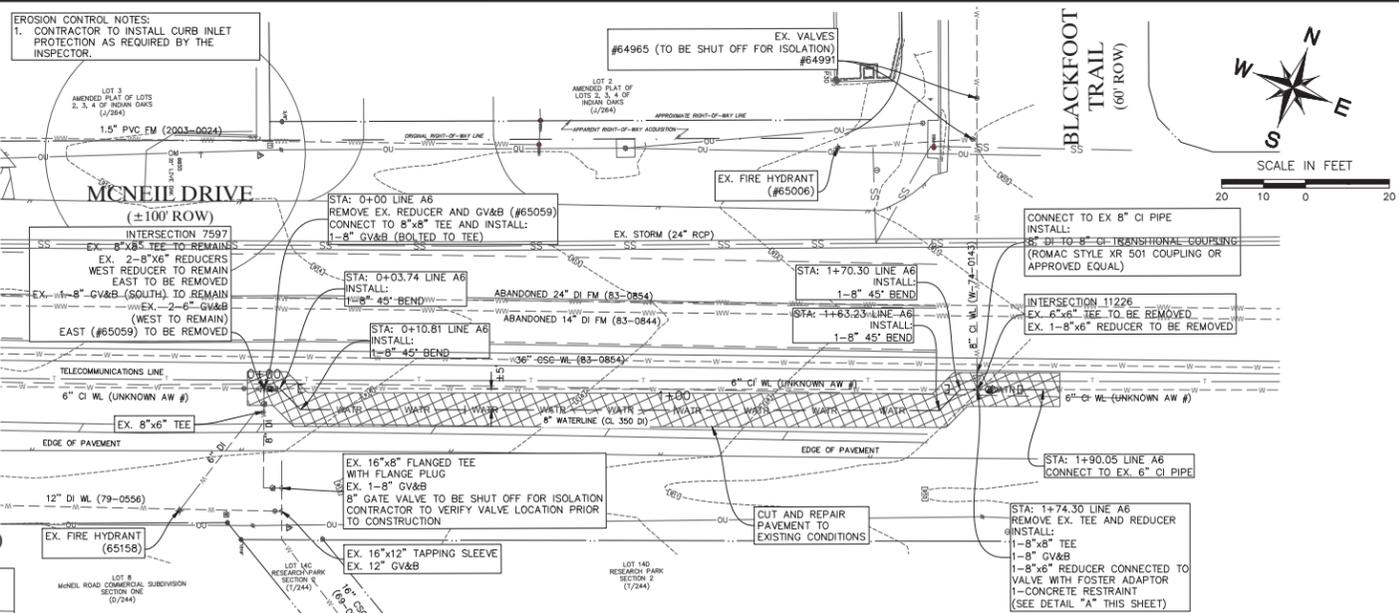
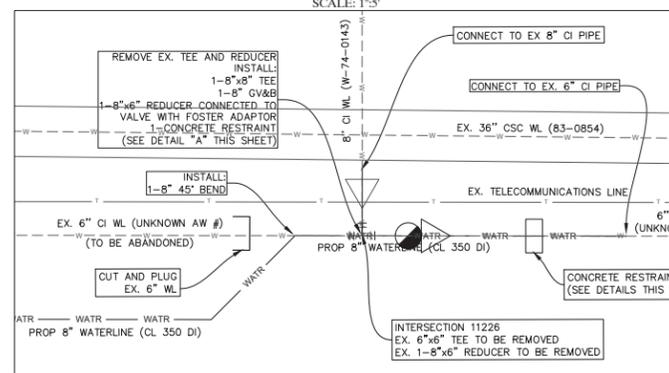
LEGEND

- EXIST. WATER MAIN
 - EXIST. WASTEWATER MAIN
 - EXIST. STORM LINE
 - EXIST. TELECOMMUNICATIONS LINE
 - EXIST. VALVE (APPROX. LOCATION)
 - PROP. WATER MAIN
 - PROP. VALVE
- SURVEY LEGEND**
- 1/2" REBAR FOUND (OR AS NOTED)
 - 1519 1/2" REBAR FOUND 'RPLS 1519'
 - ⊕ CONTROL POINT/BENCHMARK LOCATION
 - ⊕ WATER METER
 - ⊕ WATER VALVE
 - ⊕ FIRE HYDRANT
 - ⊕ VENT PIPE
 - ⊕ UTILITY POLE
 - ⊕ METAL ELECTRIC TRANSMISSION LINE POLE
 - ⊕ GUY WIRE
 - ⊕ OVERHEAD UTILITIES
 - ⊕ ELECTRIC UTILITY
 - ⊕ ELECTRIC MANHOLE
 - ⊕ LIGHT POLE
 - ⊕ UNDERGROUND FIBER OPTIC MARKER
 - ⊕ TELEPHONE UTILITY
 - ⊕ UNDERGROUND TELEPHONE MARKER
 - WWMH WASTEWATER MANHOLE
 - SSMH STORMSEWER MANHOLE
 - BOLLARD
 - ⊕ SIGN
 - EDGE OF ASPHALT PAVEMENT
 - () RECORD INFORMATION

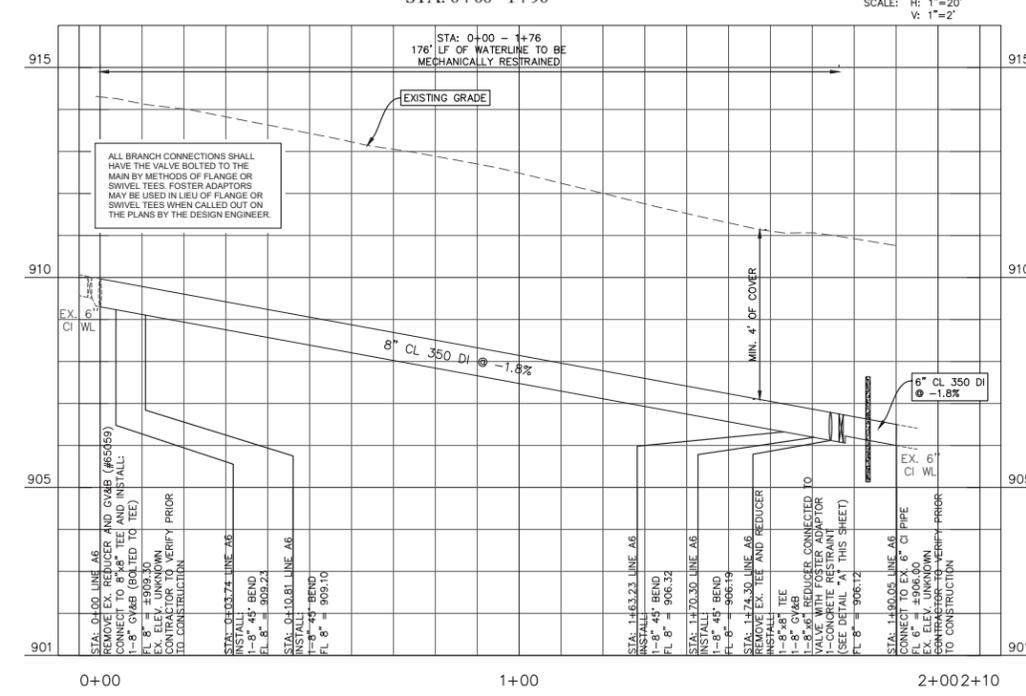
WATER LINE A1 TIE-IN SCHEMATIC AT STA 0+00 (INTERSECTION 7597)



WATER LINE A1 TIE-IN SCHEMATIC AT STA 1+67 (INTERSECTION 11226)



WATER LINE A6 STA: 0+00 - 1+90



THIS IS A GRID DRAWING.
 BEARING BASIS: THE TEXAS COORDINATE SYSTEM OF 1983 (NAD83), CENTRAL ZONE; US SURVEY FEET; BASED ON GPS SOLUTIONS FROM THE LOCAL REAL TIME NETWORK (RTN) FOR CHAPARRAL CONTROL POINT "P30".
 MAG NAIL WITH "CHAPARRAL" WASHER SET
 SURFACE COORDINATES:
 N 10133960.41
 E 3109155.46
 TEXAS STATE PLANE COORDINATES:
 N 10132845.47
 E 3108813.39
 ELEVATION = 913.50'
 VERTICAL DATUM: NAVD 88 (GEOID 18)
 COMBINED SCALE FACTOR = 0.99988998 (FOR SURFACE TO GRID CONVERSION)
 INVERSE SCALE FACTOR = 1.000110032 (FOR GRID TO SURFACE CONVERSION)
 SCALED ABOUT 0.0

- NOTES:**
1. SURVEY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION PROVIDED BY CHAPARRAL PROFESSIONAL LAND SURVEYING, INC. DATED AUGUST 2020. EXISTING INFORMATION PROVIDED BY CITY OF AUSTIN. NO WARRANTY IS EXPRESSED OR IMPLIED TO ITS ACCURACY.
 2. EXISTING WATERLINE ELEVATIONS UNKNOWN. CONTRACTOR TO CONFIRM ELEVATIONS PRIOR TO CONSTRUCTION.
 3. CONTRACTOR TO RESTRIPE PAVEMENT AS NEEDED TO MATCH EXISTING CONDITIONS.
 4. CONTRACTOR TO INSTALL CURB INLET PROTECTION AS REQUIRED BY THE INSPECTOR.
 5. APPROXIMATE LOCATION OF VALVES (PAVED OVER) ARE SHOWN. CONTRACTOR TO FIELD VERIFY.
 6. CONTRACTOR TO NOTIFY ENGINEER IF DISCREPANCIES ARE FOUND.

WARNING: CONTRACTOR IS TO VERIFY PRESENCE AND EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION

6" Waterline Concrete Thrust Collar Restraint Calculations

Pipe Area (A) = π R ²	π = 3.14
6" CL 350 DI Pipe OD = 6.90 in	R = 3.45 in
A = 37.39 in ²	

Per COA Concrete Thrust Blocking Detail 510-6 Note A
 Pressure of 150 P.S.I. (Actual if Higher) + 50% Surge Allowance

P = 150 PSI
P DESIGN = 225 PSI

Force (F) = Pressure (P) x Area (A)

F = 8413.38 lbs
Total F (PA Total Weight) = 8413.38 lbs
Total Design F = 8413.38 lbs

Concrete Thrust Collar Restraint Area (A_{DESIGN}) = Length x Width - Pipe Area

Length = 24 in
Width = 24 in
A = 576 in ²
A _{DESIGN} = 538.61 in ²

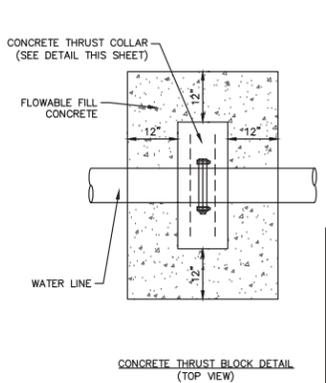
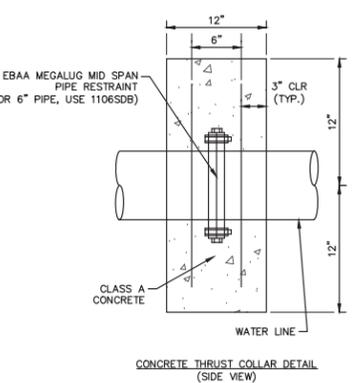
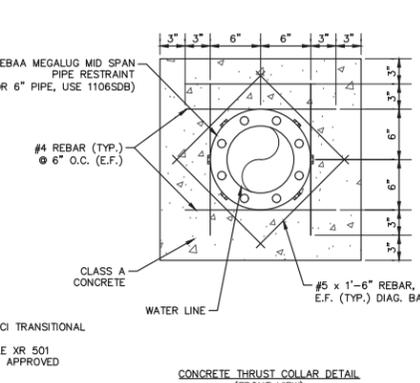
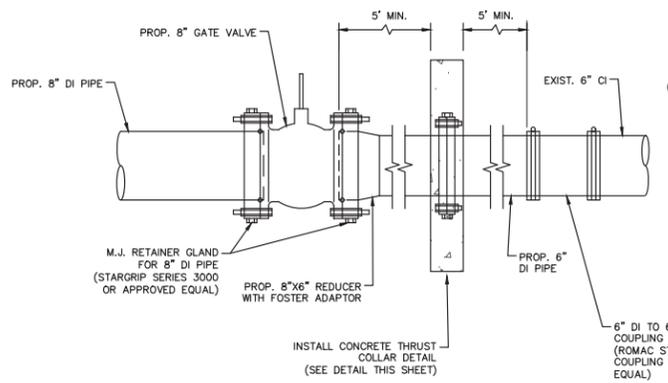
Resulting Pressure on 1 in² of Concrete Thrust Collar Restraint

Pressure (P _{CTC}) = Force (F) / Area DESIGN
P _{CTC} = 15.62 PSI
P _{CTC} = 2,249.37 lbs/5F
Soil Bearing Pressure (Rock) = 450 kN/m ²
Soil Bearing Pressure = 9,398.49 lbs/5F
Soil Bearing Pressure (Clay/Sand) = 150 kN/m ²
Soil Bearing Pressure = 3,132.83 lbs/5F

Thrust Collar Restraint Area is OK

Notes:

1. The resulting pressure on one square foot of the concrete thrust collar restraint should be less than the expected lateral bearing pressure of the soil.
2. The subgrade of McNeil Drive is unknown, but expected to either be rock or a mix of clay and sand. Therefore the calculations for both scenarios have been provided. The contractor shall notify the engineer if there is a discrepancy
3. The following soil bearing pressures were obtained from civillib.org
 Soft Rock = 450 kN/m²
 Moist clay and sand dry mixture indented with strong thumb pressure = 150 kN/m²



CONCRETE RESTRAINT DETAIL
 N.T.S.

NOTES:

1. USE TABLE FOR 6" RESTRAINT CALCULATIONS.
2. WRAP RESTRAINTS AS REQUIRED

DEVELOPMENT PERMIT NO. SP-2019-0564C

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SITE PLAN APPROVAL SHEET 19 OF 37
 FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
 APPROVED BY COMMISSION ON _____ UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-5-81)DCJ _____ CASE MANAGER J. SULTANA
 PROJECT EXPIRATION DATE (ORD#970905-A) _____ DWPZ DDZ X

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: _____ ZONING LD AND GO

Rev. 1 _____ Correction 1
 Rev. 2 _____ Correction 2
 Rev. 3 _____ Correction 3

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

Scale: AS SHOWN
 Designed by: _____
 Drawn by: _____
 Checked by: _____
 Date: OCTOBER 2020
 Project No. _____

PHASE I
 MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS
 8" PUBLIC WATERLINE

REVISIONS

No.	Date	Revisions

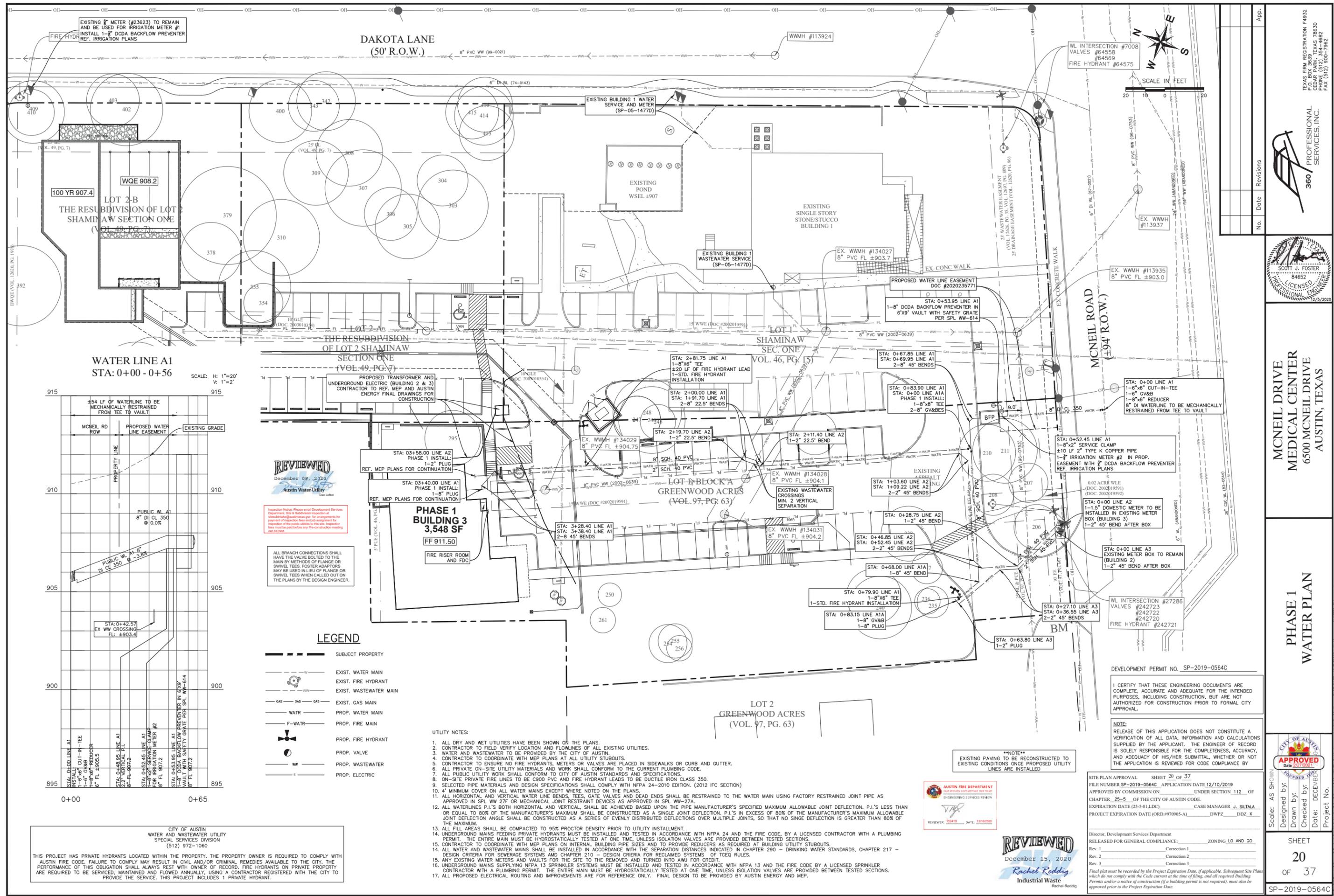
App. _____

SEAL: SCOTT J. FOSTER, LICENSED PROFESSIONAL ENGINEER, NO. 10777020, EXPIRES 10/31/2022

TEXAS FIRM REGISTRATION #4832
 P.O. BOX 9639
 CEDAR PARK, TEXAS 78630
 PHONE (512) 354-4682
 FAX (512) 354-7882

360 PROFESSIONAL SERVICES, INC.

SHEET 19 OF 37
 SP-2019-0564C

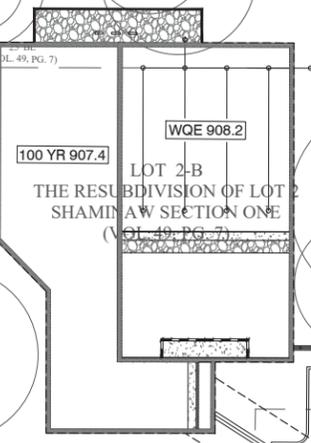
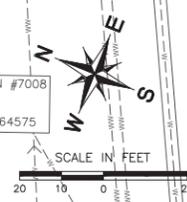


EXISTING 2" METER (#23623) TO REMAIN AND BE USED FOR IRRIGATION METER #1. INSTALL 1-8" DCDA BACKFLOW PREVENTER REF. IRRIGATION PLANS.

DAKOTA LANE (50' R.O.W.)

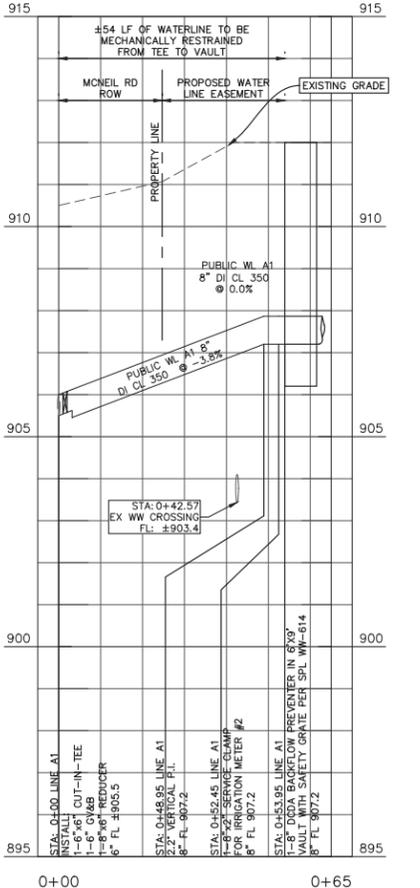
WWMH #113924

WL INTERSECTION #7008 VALVES #64558 #64569 FIRE HYDRANT #64575



WATER LINE A1 STA: 0+00 - 0+56

SCALE: H: 1"=20' V: 1"=2'



REVIEWED
December 09, 2020
Austin Water Utility
Dan Loftin

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ALL BRANCH CONNECTIONS SHALL HAVE THE VALVE BOLTED TO THE MAIN BY METHODS OF FLANGE OR SWIVEL TEES. FOSTER ADAPTORS MAY BE USED IN LIEU OF FLANGE OR SWIVEL TEES WHEN CALLED OUT ON THE PLANS BY THE DESIGN ENGINEER.

LEGEND

- SUBJECT PROPERTY
- EXIST. WATER MAIN
- EXIST. FIRE HYDRANT
- EXIST. WASTEWATER MAIN
- EXIST. GAS MAIN
- PROP. WATER MAIN
- PROP. FIRE MAIN
- PROP. FIRE HYDRANT
- PROP. VALVE
- PROP. WASTEWATER
- PROP. ELECTRIC

UTILITY NOTES:

1. ALL DRY AND WET UTILITIES HAVE BEEN SHOWN ON THE PLANS.
2. CONTRACTOR TO FIELD VERIFY LOCATION AND FLOWLINES OF ALL EXISTING UTILITIES.
3. WATER AND WASTEWATER TO BE PROVIDED BY THE CITY OF AUSTIN.
4. CONTRACTOR TO COORDINATE WITH MEP PLANS AT ALL UTILITY STUBOUTS.
5. CONTRACTOR TO ENSURE NO FIRE HYDRANTS, METERS OR VALVES ARE PLACED IN SIDEWALKS OR CURB AND GUTTER.
6. ALL PRIVATE ON-SITE UTILITY MATERIALS AND WORK SHALL CONFORM TO THE CURRENT PLUMBING CODE.
7. ALL PUBLIC UTILITY WORK SHALL CONFORM TO CITY OF AUSTIN STANDARDS AND SPECIFICATIONS.
8. ON-SITE PRIVATE FIRE LINES TO BE C900 PVC AND FIRE HYDRANT LEADS TO BE DUCTILE IRON CLASS 350.
9. SELECTED PIPE MATERIALS AND DESIGN SPECIFICATIONS SHALL COMPLY WITH NFPA 24-2010 EDITION: (2012 IFC SECTION)
10. 4" MINIMUM COVER ON ALL WATER MAINS EXCEPT WHERE NOTED ON THE PLANS.
11. ALL HORIZONTAL AND VERTICAL WATER LINE BENDS, TEES, GATE VALVES AND DEAD ENDS SHALL BE RESTRAINED TO THE WATER MAIN USING FACTORY RESTRAINED JOINT PIPE AS APPROVED IN SPL WW 27F OR MECHANICAL JOINT RESTRAINT DEVICES AS APPROVED IN SPL WW-27A.
12. ALL WATERLINES P.I.'S BOTH HORIZONTAL AND VERTICAL SHALL BE ACHIEVED BASED UPON THE PIPE MANUFACTURER'S SPECIFIED MAXIMUM ALLOWABLE JOINT DEFLECTION. P.I.'S LESS THAN OR EQUAL TO 80% OF THE MANUFACTURER'S MAXIMUM SHALL BE CONSTRUCTED AS A SINGLE JOINT DEFLECTION. P.I.'S IN EXCESS OF 80% OF THE MANUFACTURER'S MAXIMUM ALLOWABLE JOINT DEFLECTION ANGLE SHALL BE CONSTRUCTED AS A SERIES OF EVENLY DISTRIBUTED DEFLECTIONS OVER MULTIPLE JOINTS, SO THAT NO SINGLE DEFLECTION IS GREATER THAN 80% OF THE MAXIMUM.
13. ALL FILL AREAS SHALL BE COMPACTED TO 95% PROCTOR DENSITY PRIOR TO UTILITY INSTALLMENT.
14. UNDERGROUND MAINS FEEDING PRIVATE HYDRANTS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 24 AND THE FIRE CODE, BY A LICENSED CONTRACTOR WITH A PLUMBING PERMIT. THE ENTIRE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME, UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.
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16. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AND CHAPTER 210 - DESIGN CRITERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.
17. ANY EXISTING WATER METERS AND VAULTS FOR THE SITE TO BE REMOVED AND TURNED INTO AMU FOR CREDIT.
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19. ALL PROPOSED ELECTRICAL ROUTING AND IMPROVEMENTS ARE FOR REFERENCE ONLY. FINAL DESIGN TO BE PROVIDED BY AUSTIN ENERGY AND MEP.

****NOTE****
EXISTING PAVING TO BE RECONSTRUCTED TO EXISTING CONDITIONS ONCE PROPOSED UTILITY LINES ARE INSTALLED



REVIEWED
December 15, 2020
Rachel Reddig
Industrial Waste
Rachel Reddig

DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

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SITE PLAN APPROVAL SHEET 20 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO

Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction of a building permit is not required, must also be approved prior to the Project Expiration Date.

CITY OF AUSTIN
WATER AND 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 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 1 PRIVATE HYDRANT.

App.	
Revisions	
No.	Date

SCOTT J. FOSTER
LICENSED PROFESSIONAL ENGINEER
No. 8485
Expires 12/15/2020

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P.O. BOX 1639
CEDAR PARK, TEXAS 78630
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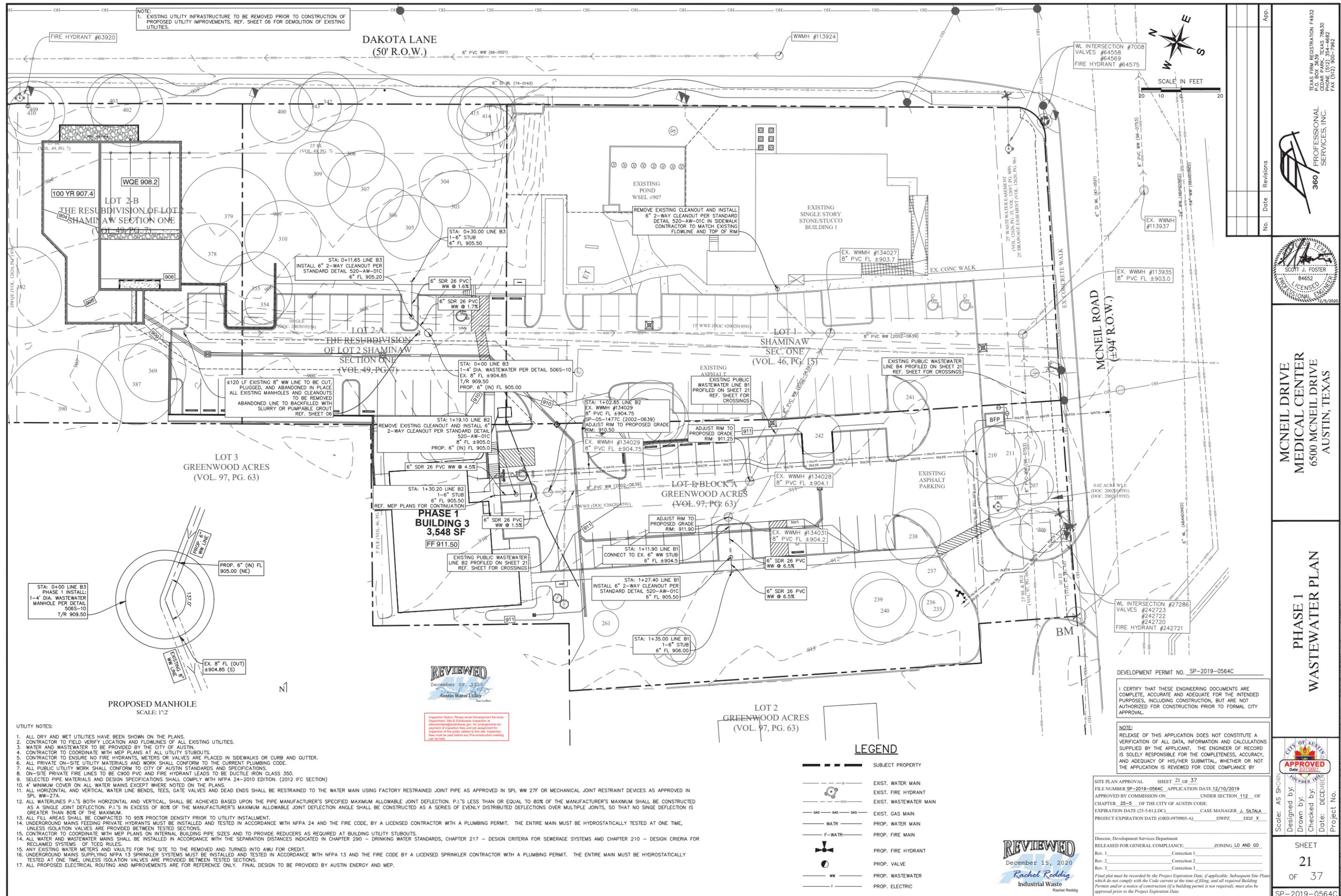
MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

PHASE 1
WATER PLAN

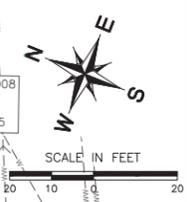
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Drawn by: [Signature]
Checked by: [Signature]
Date: DECEMBER 15, 2020
Project No. [Number]

SHEET
20
OF 37

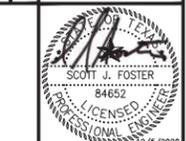
SP-2019-0564C



NOTE:
1. EXISTING UTILITY INFRASTRUCTURE TO BE REMOVED PRIOR TO CONSTRUCTION OF PROPOSED UTILITY IMPROVEMENTS. REF. SHEET 06 FOR DEMOLITION OF EXISTING UTILITIES.



No.	Date	Revisions	App.



MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

PHASE 1 WASTEWATER PLAN

Scale: AS SHOWN
Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Date: DECEMBER 15, 2020
Project No. [Number]

APPROVED
DATE 12/15/2020

SHEET
21
OF 37

SP-2019-0564C

PROPOSED MANHOLE
SCALE: 1"=2'

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LEGEND

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- EXIST. FIRE HYDRANT
- EXIST. WASTEWATER MAIN
- EXIST. GAS MAIN
- PROP. WATER MAIN
- PROP. FIRE MAIN
- PROP. FIRE HYDRANT
- PROP. VALVE
- PROP. WASTEWATER
- PROP. ELECTRIC



DEVELOPMENT PERMIT NO. SP-2019-0564C

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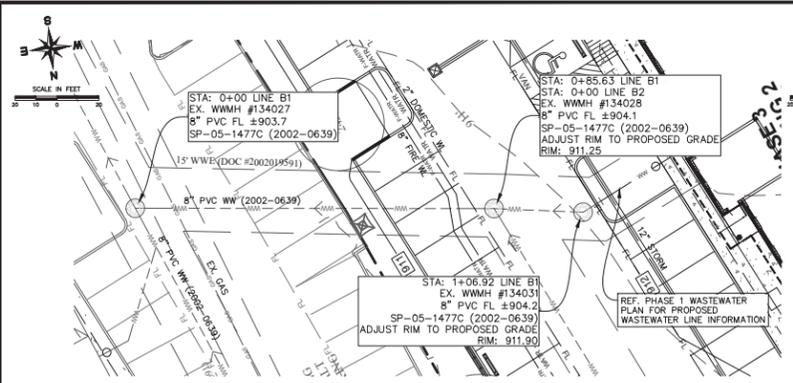
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SITE PLAN APPROVAL SHEET 21 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5.81.DC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD-8970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO

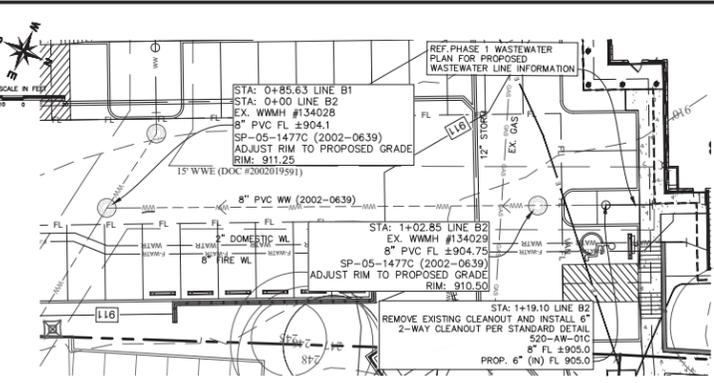
Rev. 1	Correction 1
Rev. 2	Correction 2
Rev. 3	Correction 3

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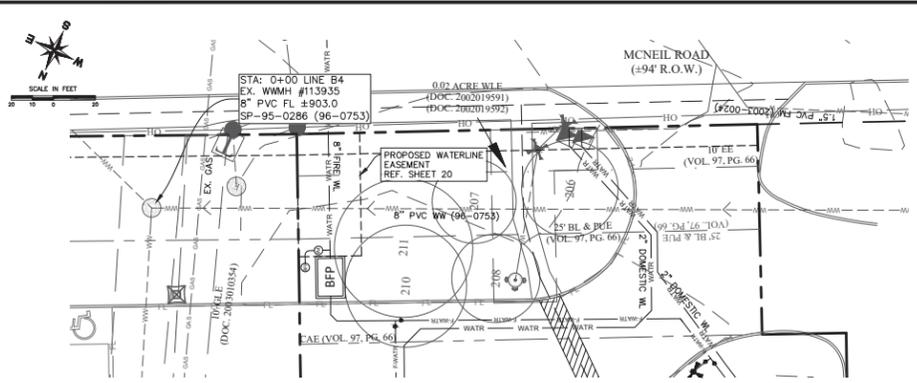
WASTEWATER LINE B1
STA: 0+00 - 1+12

SCALE: H: 1"=20'
V: 1"=2'



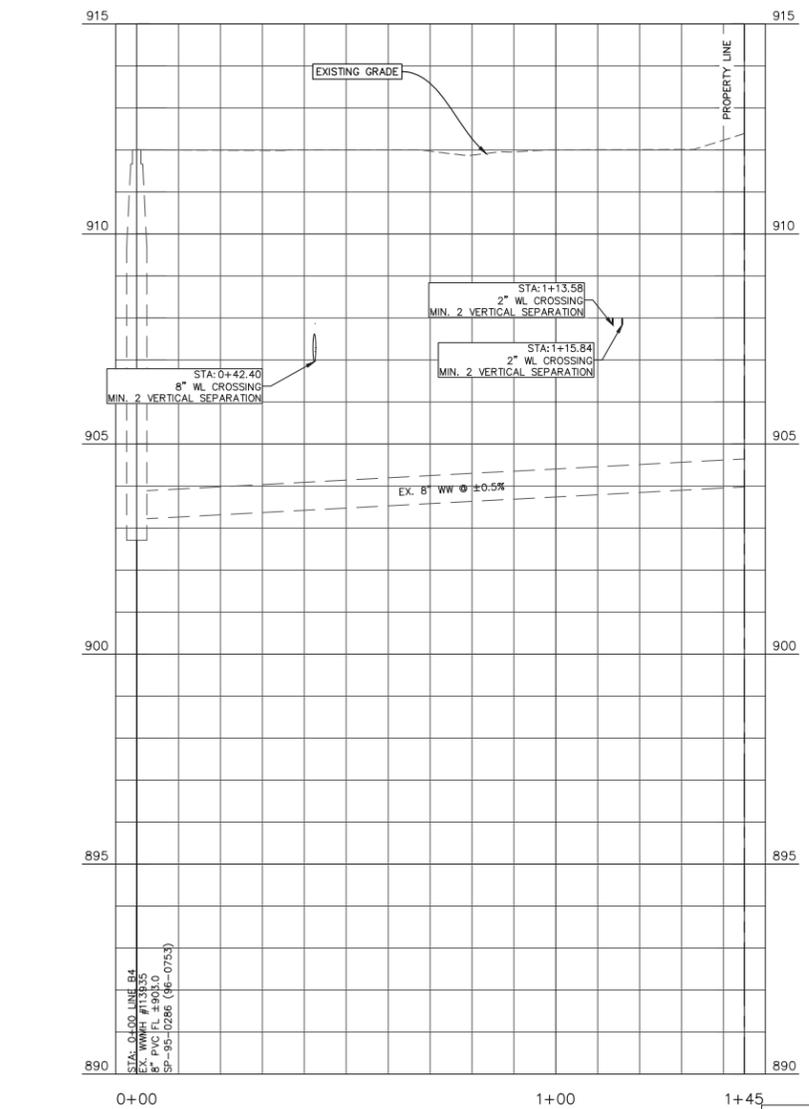
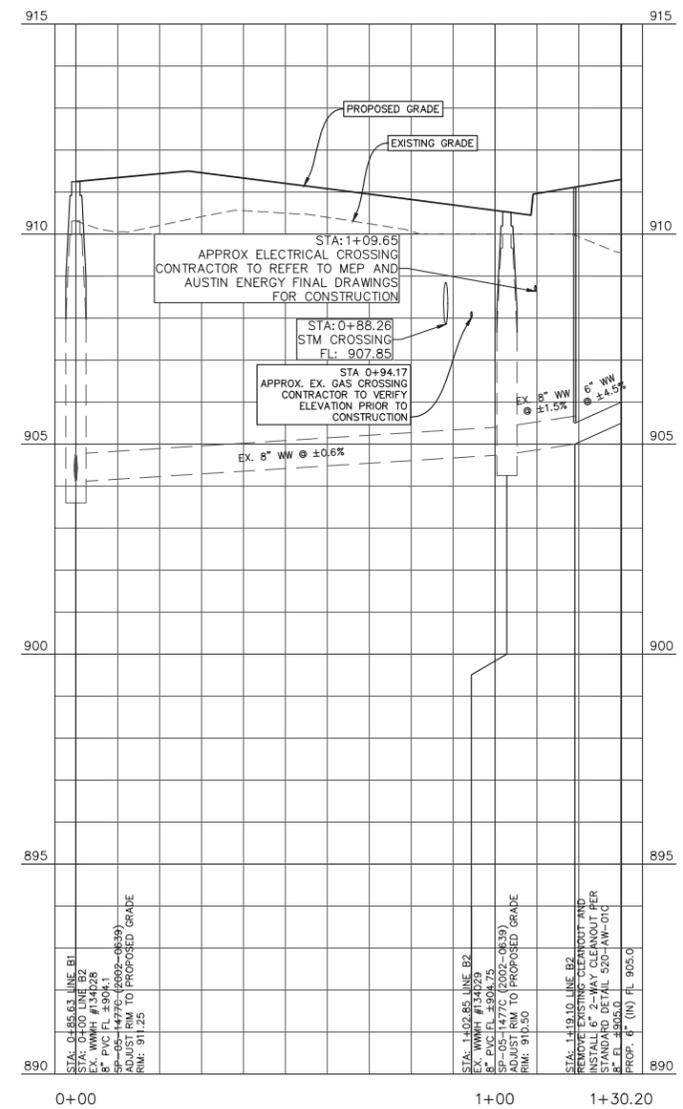
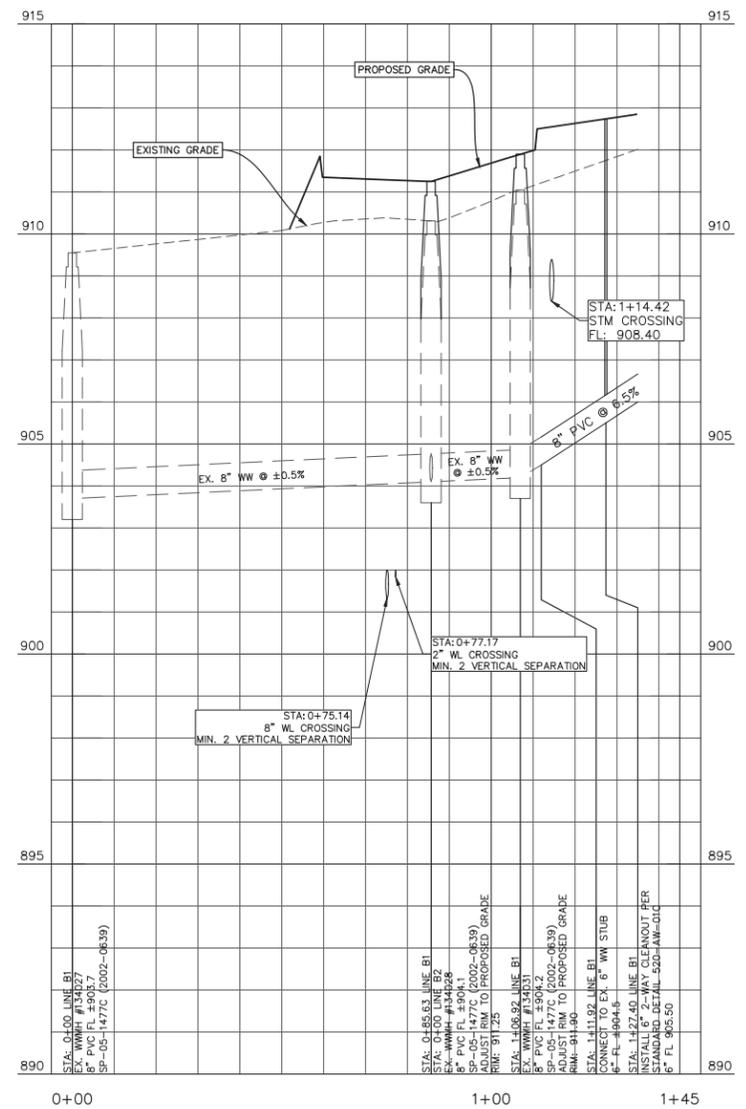
WASTEWATER LINE B2
STA: 0+00 - 1+03

SCALE: H: 1"=20'
V: 1"=2'



WASTEWATER LINE B4
STA: 0+00 - 1+45

SCALE: H: 1"=20'
V: 1"=2'



- NOTES:
- THIS SHEET IS FOR CROSSINGS ONLY. REFERENCE WATER PLAN PHASE I, WASTEWATER PLAN PHASE I, AND WATER AND WASTEWATER PLAN PHASE II SHEETS FOR ADDITIONAL INFORMATION.
 - SURVEY INFORMATION SHOWN HEREON IS BASED UPON INFORMATION PROVIDED BY ALLSTAR LAND SURVEYING DATED MAY 2019. EXISTING WASTEWATER INFORMATION PER AS-BUILTS, SP-05-1477C (2002-0639) AND SP-95-0286 (96-0753). NO WARRANTY IS EXPRESSED OR IMPLIED TO ITS ACCURACY.
 - CONTRACTOR TO NOTIFY ENGINEER IF DISCREPANCIES ARE FOUND.



REVIEWED
December 09, 2020
Austin Water Utility
Dan Lott

REVIEWED
December 15, 2020
Rachel Redding
Industrial Waste
Rachel Redding

DEVELOPMENT PERMIT NO. SP-2019-0564C

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SITE PLAN APPROVAL SHEET 22 OF 37
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EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.997095-A) DWPZ DDZ X

No.	Date	Revisions	App.



MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

EXISTING PUBLIC
WASTEWATER
PLAN AND PROFILES

City of Austin
APPROVED
Date 2/2/2021

Scale: AS SHOWN
Designed by: [Signature]
Drawn by: [Signature]
Checked by: [Signature]
Date: DECEMBER 15, 2020
Project No. SP-2019-0564C

SHEET
22
OF 37
SP-2019-0564C

TEXAS FIRM REGISTRATION F4832
P.O. BOX 14830
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4682
FAX (512) 354-7882

PROFESSIONAL
SERVICES, INC.
360

SCOTT J. FOSTER
84652
LICENSED
PROFESSIONAL ENGINEER
12/15/2020

REVIEWED
December 15, 2020
Rachel Redding
Industrial Waste
Rachel Redding

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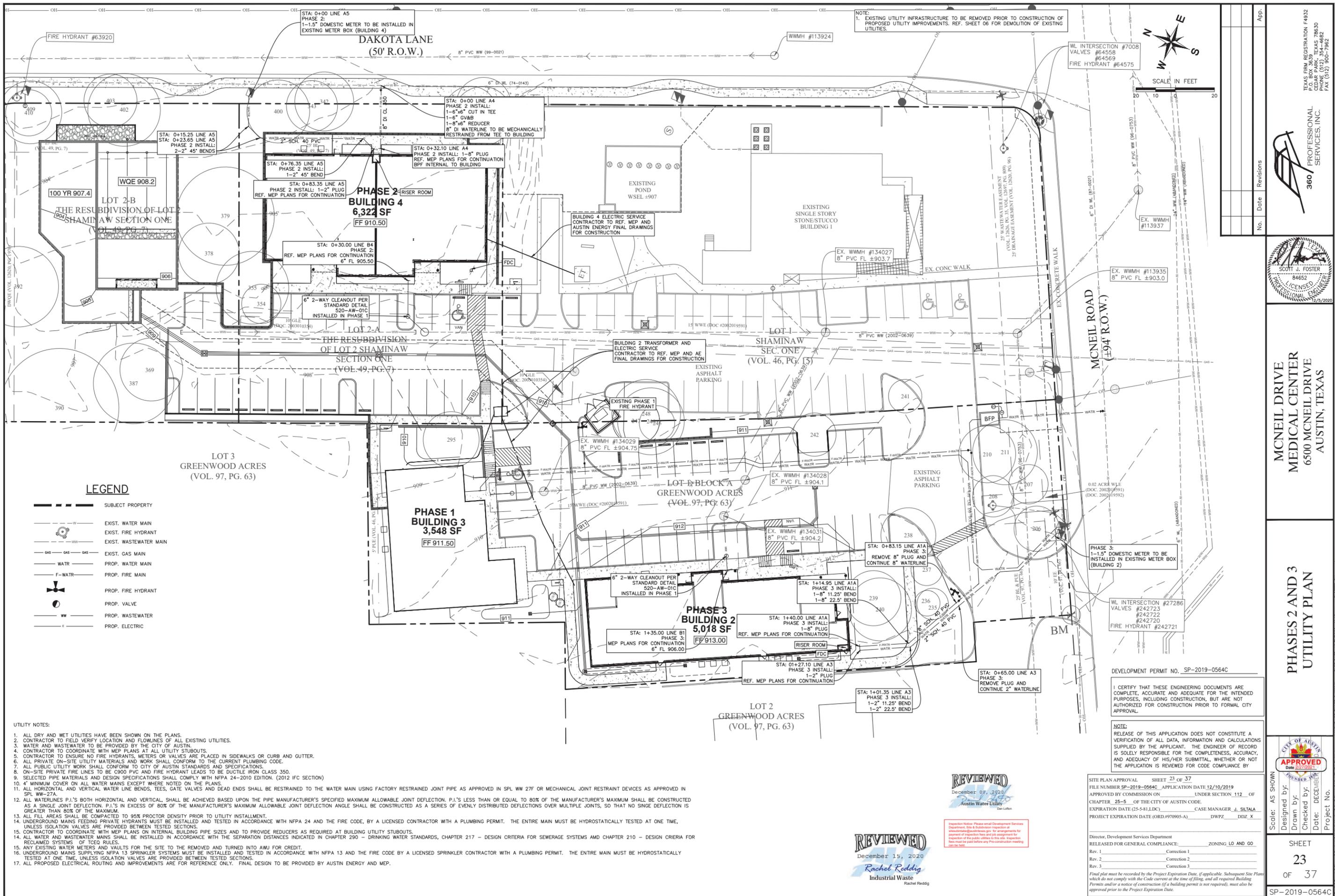
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Date: DECEMBER 15, 2020
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SHEET
22
OF 37
SP-2019-0564C



LEGEND

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SITE PLAN APPROVAL SHEET 23 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD-8970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LD AND GO

Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

App.	
Revisions	
No.	Date

SCOTT J. FOSTER
 LICENSED PROFESSIONAL ENGINEER
 STATE OF TEXAS
 LICENSE NO. 84652
 EXPIRES 12/31/2020

TEXAS FIRM REGISTRATION #4832
 P.O. BOX 9639
 CEDAR PARK, TEXAS 78630
 PHONE (512) 354-4682
 FAX (512) 350-7882

360 PROFESSIONAL SERVICES, INC.

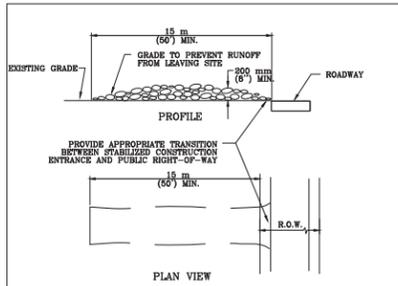
MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS

**PHASES 2 AND 3
 UTILITY PLAN**

Scale: AS SHOWN
 Designed by: [Name]
 Drawn by: [Name]
 Checked by: [Name]
 Date: DECEMBER 15, 2020
 Project No.

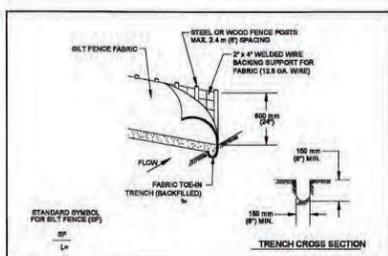
SHEET
 23
 OF 37

SP-2019-0564C



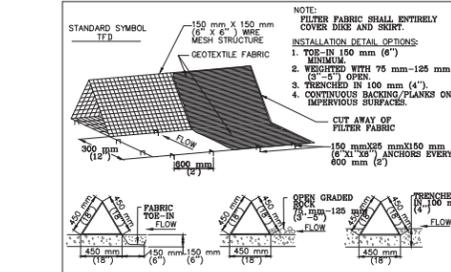
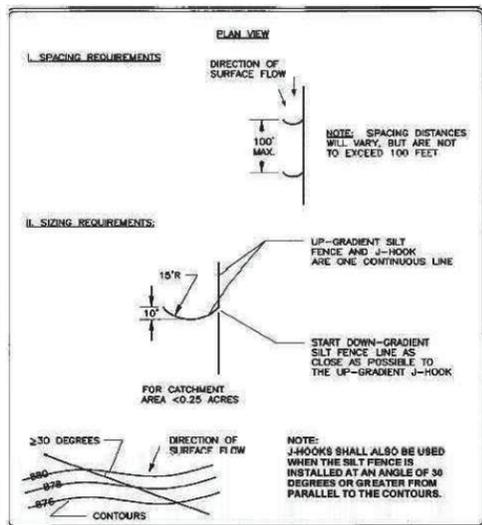
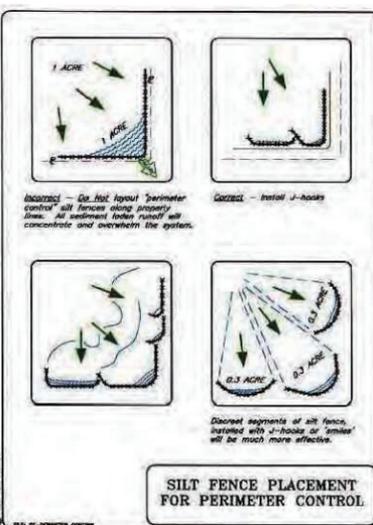
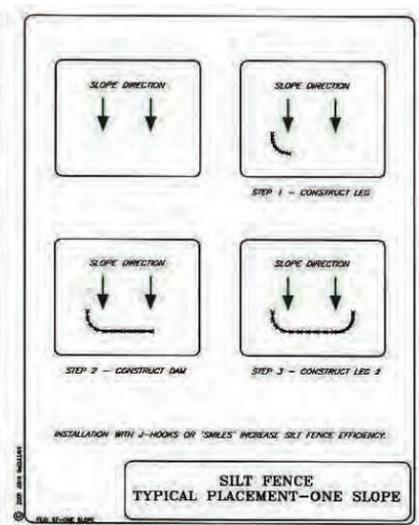
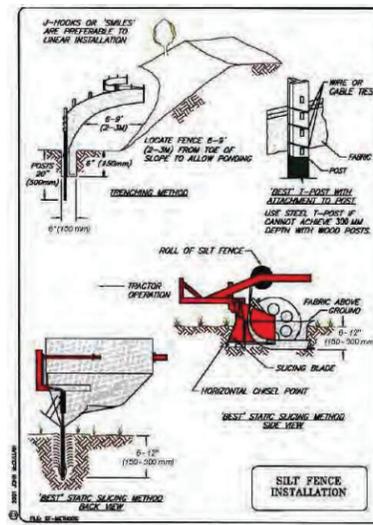
- NOTES:**
1. STONE SIZE: 75-125 mm (3-5") OPEN GRADED ROCK.
 2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
 3. THICKNESS: NOT LESS THAN 300 mm (12").
 4. WIDTH: NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
 5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEEL WASHING IS REQUIRED. IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
 6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF FLOWING SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH CRUSHED STONE AS CONDITIONS WARRANT, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURES DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENT THAT IS DISPOSED, DUMPED, HAULING OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
 7. DRAINAGE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

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



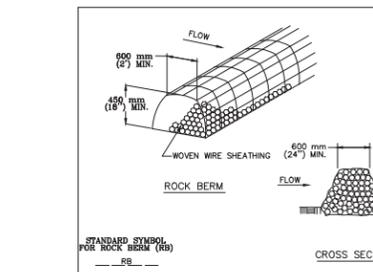
- NOTES:**
1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 INCHES) DEPTH, USE STEEL POSTS.
 2. THE TIE OF THE SILT FENCE SHALL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

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	SILT FENCE	STANDARD NO. 642S-1
RECORD COPY SIGNED BY J. PATRICK MURPHY	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED



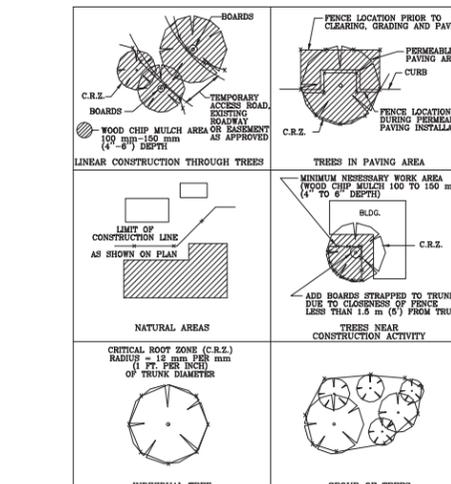
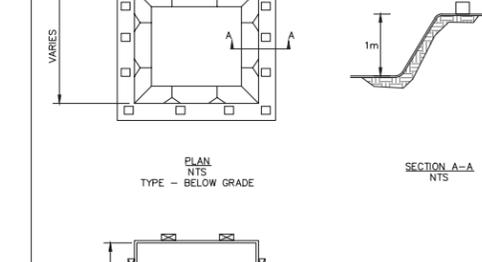
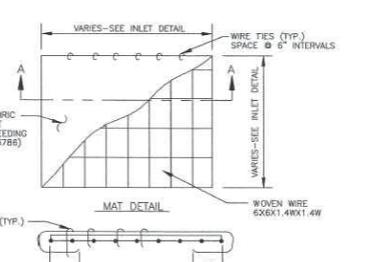
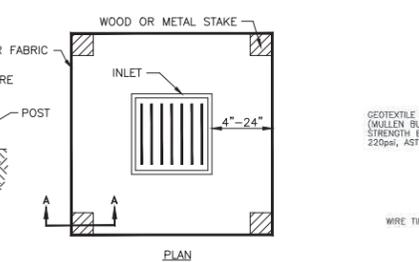
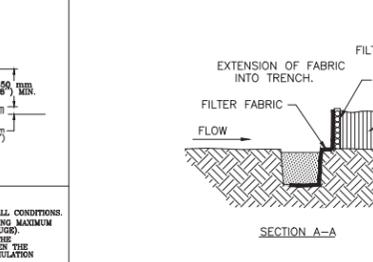
- GENERAL NOTES:**
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
 2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
 3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 75-125 mm (3-5") OPEN GRADED ROCK OR TYPED-IN 150 mm (6") WITH MECHANICALLY COMPACTED MATERIAL OVERLAPPING THE FABRIC STRUCTURE SHALL BE TRENCHED IN 100 mm (4").
 4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 150 mm (6") WIRE STAPLES OR 600 mm (24") CENTERS ON BOTH ENDS AND SKIRT, OR STAKES USING 100 mm (4") DIAMETER RE-BARS WITH 125 mm (5") SPACING.
 5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 150 mm (6") TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH CALVAGED STAKE BRINGS.
 6. THE DIKE STRUCTURE SHALL BE MW40-150 mmx150 mm (6 GA. 6"x6") WIRE MESH, 450 mm (18") ON A SIDE.
 7. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
 8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6") AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
 9. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKE AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTE 8 ABOVE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TRIANGULAR SEDIMENT FILTER DIKE	STANDARD NO. 628S
RECORD COPY SIGNED BY J. PATRICK MURPHY	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED

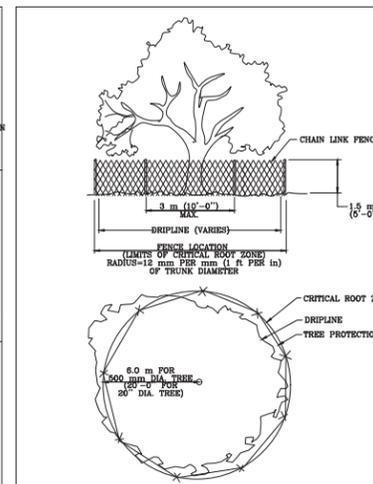


- NOTES:**
1. USE ONLY OPEN GRADED ROCK 75 TO 125 mm (3 TO 5") DIAMETER FOR ALL CONDITIONS.
 2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 1.9 mm (30 GAUGE).
 3. THE ROCK BERM SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE CONTOUR OF THE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
 4. IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6") WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION TRAP.
 5. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF AS INDICATED IN GENERAL NOTE 8 ABOVE.

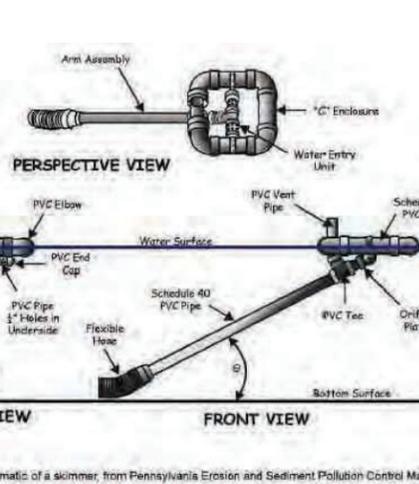
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	ROCK BERM	STANDARD NO. 639S-1
RECORD COPY SIGNED BY MORGAN BYARS	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED



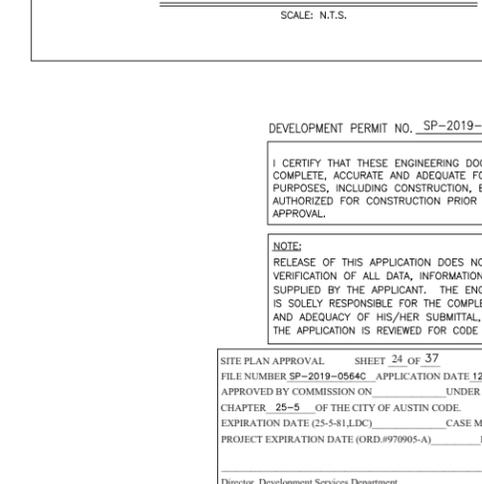
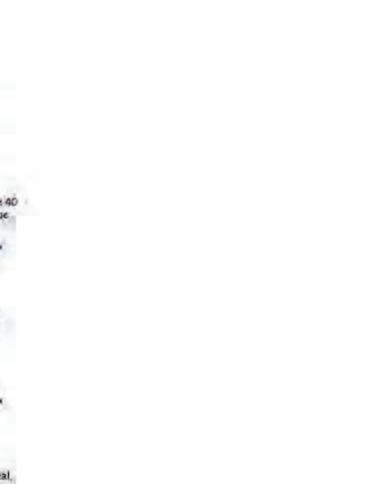
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE LOCATIONS	STANDARD NO. 610S-1
RECORD COPY SIGNED BY J. PATRICK MURPHY	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE TYPE A - CHAIN LINK	STANDARD NO. 610S-2
RECORD COPY SIGNED BY J. PATRICK MURPHY	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	DEWATERING SKIMMER	STANDARD NO. 610S-2
RECORD COPY SIGNED BY J. PATRICK MURPHY	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	ADOPTED



APP.
Revisions
No. Date

360 PROFESSIONAL SERVICES, INC.
SCOTT J. FOSTER
LICENSED PROFESSIONAL ENGINEER
10/7/2020

MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

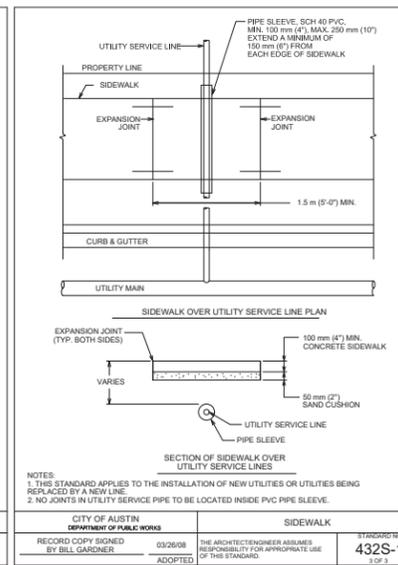
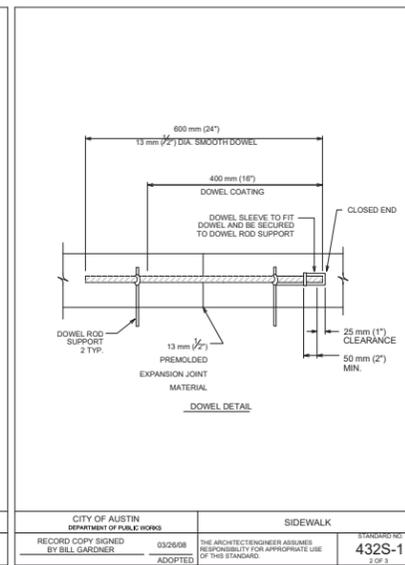
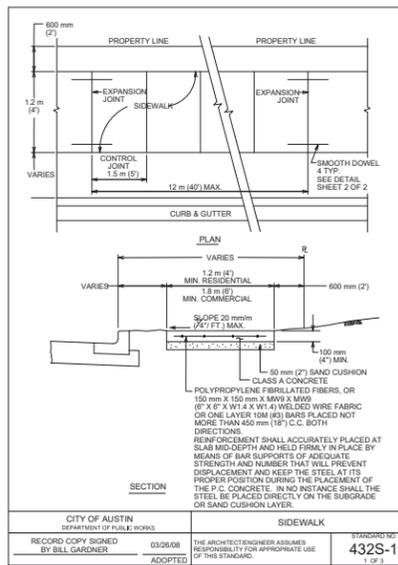
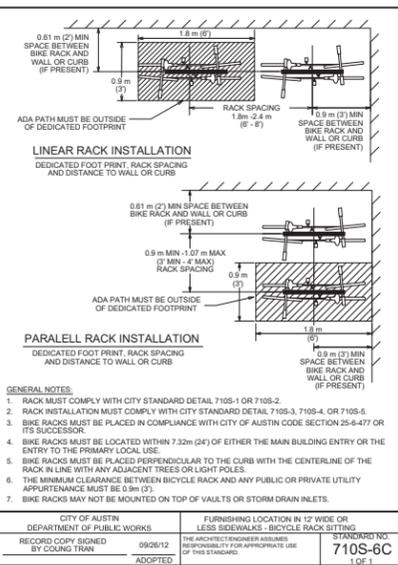
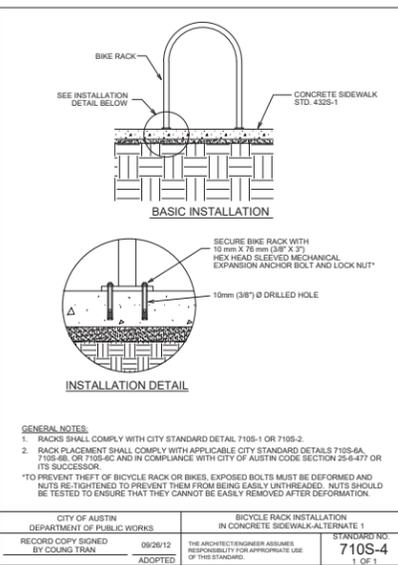
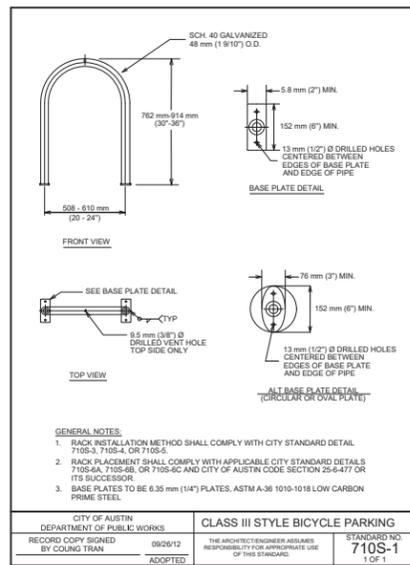
CONSTRUCTION DETAILS
SHEET 1

City of Austin
APPROVED
Date 2/2/2021

Scale: AS SHOWN
Designed by: [Name]
Drawn by: [Name]
Checked by: [Name]
Date: OCTOBER 2021
Project No.

SHEET
24
OF 37

SP-2019-0564C



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED
STANDARD NO. 7105-1	1 OF 1	STANDARD NO. 710S-4	1 OF 1	STANDARD NO. 710S-6C	1 OF 1

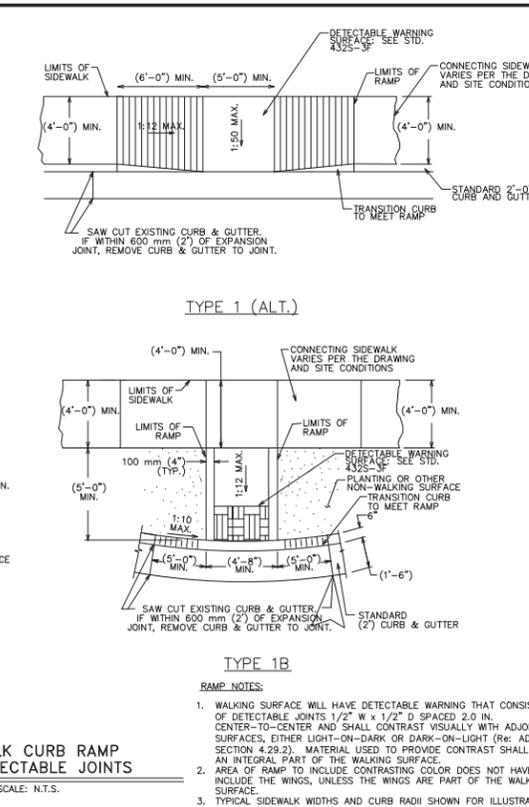
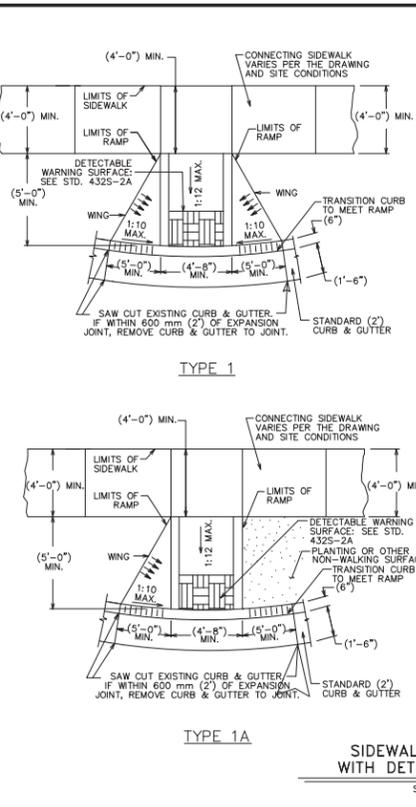
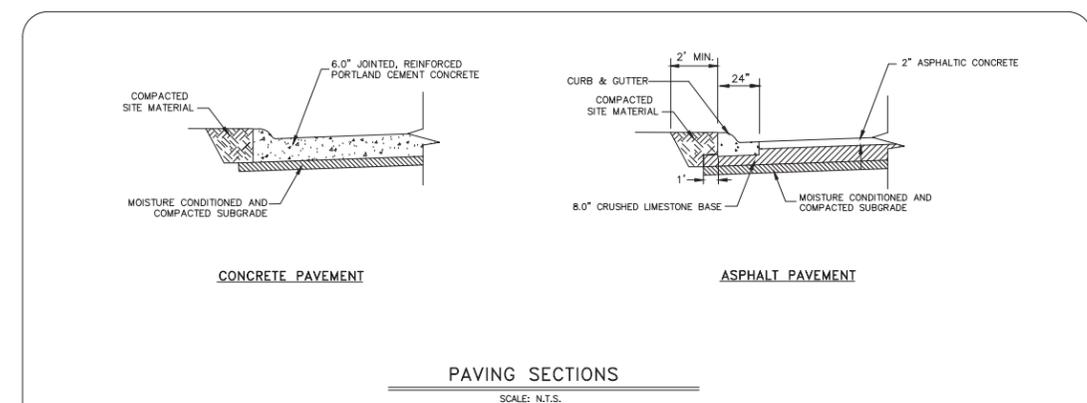
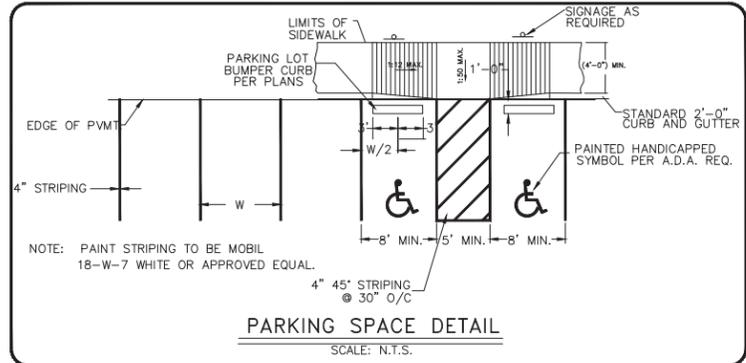
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED
STANDARD NO. 7105-1	1 OF 1	STANDARD NO. 710S-4	1 OF 1	STANDARD NO. 710S-6C	1 OF 1

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED	RECORD COPY SIGNED BY COULING TRAIN	09/26/12 ADOPTED
STANDARD NO. 7105-1	1 OF 1	STANDARD NO. 710S-4	1 OF 1	STANDARD NO. 710S-6C	1 OF 1

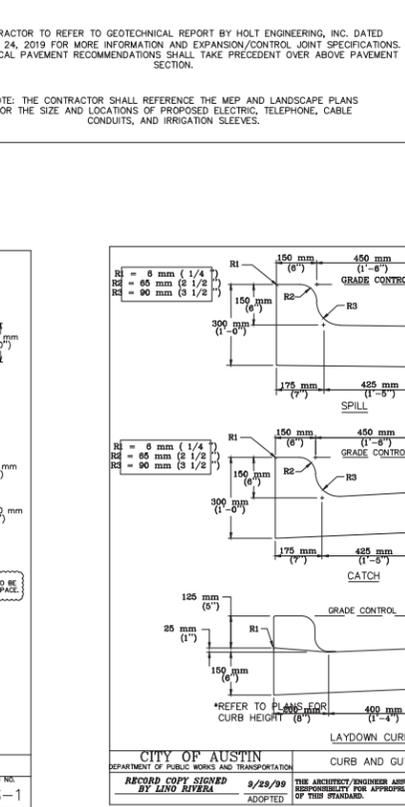
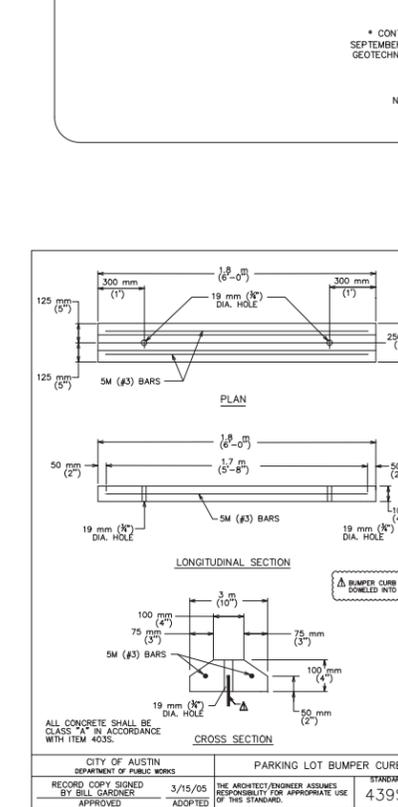
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED
STANDARD NO. 432S-1	1 OF 3	STANDARD NO. 432S-1	1 OF 3	STANDARD NO. 432S-1	1 OF 3

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED
STANDARD NO. 432S-1	2 OF 3	STANDARD NO. 432S-1	2 OF 3	STANDARD NO. 432S-1	2 OF 3

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CLASS III STYLE BICYCLE PARKING	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BICYCLE RACK INSTALLATION IN CONCRETE SIDEWALK/TERMINATE 1	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	LESS SIDEWALKS - BICYCLE RACK SITTING
RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED	RECORD COPY SIGNED BY BILL GARDNER	03/26/08 ADOPTED
STANDARD NO. 432S-1	3 OF 3	STANDARD NO. 432S-1	3 OF 3	STANDARD NO. 432S-1	3 OF 3



RAMP NOTES:
1. WALKING SURFACE WILL HAVE DETECTABLE WARNING THAT CONSISTS OF DETECTABLE JOINTS 1/2" W x 1/2" D SPACED 2.0 IN. CENTER-TO-CENTER AND SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT (RE: ADA SECTION 4.29.2). MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
2. AREA OF RAMP TO INCLUDE CONTRASTING COLOR DOES NOT HAVE TO INCLUDE THE WINGS, UNLESS THE WINGS ARE PART OF THE WALKING SURFACE.
3. TYPICAL SIDEWALK WIDTHS AND CURB RADI RADI SHOWN FOR ILLUSTRATION REFER TO TRANSPORTATION MANUAL FOR SIDEWALK WIDTHS AND RADII.
4. REFER TO PLANS FOR RAMP CONFIGURATIONS AND LOCATIONS.
5. REFER TO ARCHITECTURAL PLANS FOR CONTRASTING COLOR RECOMMENDATIONS.



CONSTRUCTION DETAILS SHEET 2

DESIGNED BY: [Name]
DRAWN BY: [Name]
CHECKED BY: [Name]
DATE: [Date]

DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

NOTE: RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY.

SITE PLAN APPROVAL SHEET 25 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
EXPIRATION DATE (25-5-81) LDC CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.0970905-A) DWPZ DDZ X

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO

Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	PARKING LOT BUMPER CURB	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	STANDARD NO. 439S-1
RECORD COPY SIGNED BY BILL GARDNER	3/15/05 ADOPTED	RECORD COPY SIGNED BY LINDA REYES	8/28/99 ADOPTED
STANDARD NO. 439S-1	1 OF 1	STANDARD NO. 439S-1	1 OF 1

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	CURB AND GUTTER SECTION	CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	STANDARD NO. 430S-1
RECORD COPY SIGNED BY LINDA REYES	8/28/99 ADOPTED	RECORD COPY SIGNED BY LINDA REYES	8/28/99 ADOPTED
STANDARD NO. 430S-1	1 OF 1	STANDARD NO. 430S-1	1 OF 1

APP. Revisions No. Date

360 PROFESSIONAL SERVICES, INC.

SCOTT J. FOSTER
LICENSED PROFESSIONAL ENGINEER
09/27/2020

MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

CONSTRUCTION DETAILS SHEET 2

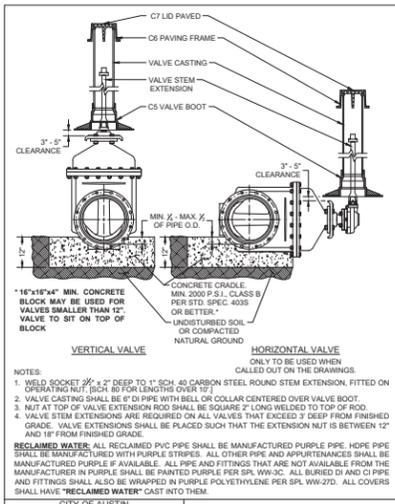
APPROVED
Date 2/27/2021

Designed by: [Name]
Drawn by: [Name]
Checked by: [Name]
Date: [Date]

Project No. [Number]

SHEET 25 OF 37

SP-2019-0564C

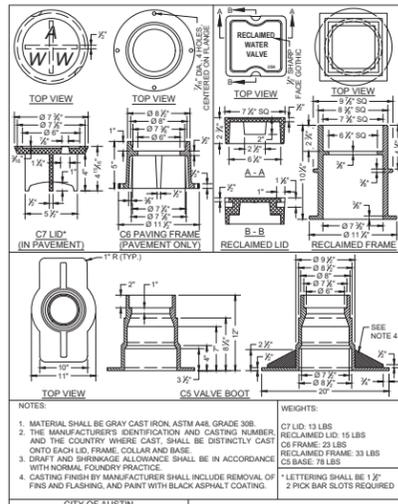


VERTICAL VALVE
 ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

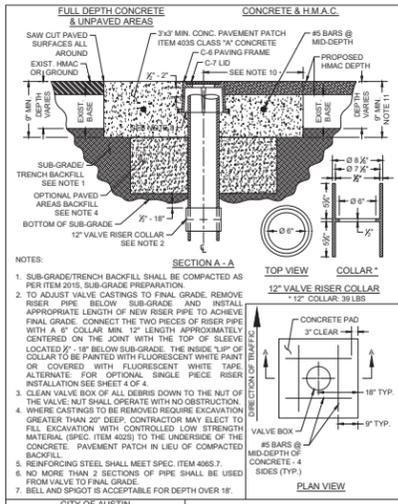
HORIZONTAL VALVE
 ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

NOTES:
 1. WELD SOCKET 3/8" x 2" DEEP TO 1" SCH 40 CARBON STEEL ROSTER STEM EXTENSION, FITTED ON OPERATING NUT (DO NOT LENGTHEN OVER 17").
 2. VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
 3. NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
 4. VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 7" DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

RECLAIMED WATER ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HOPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-2D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

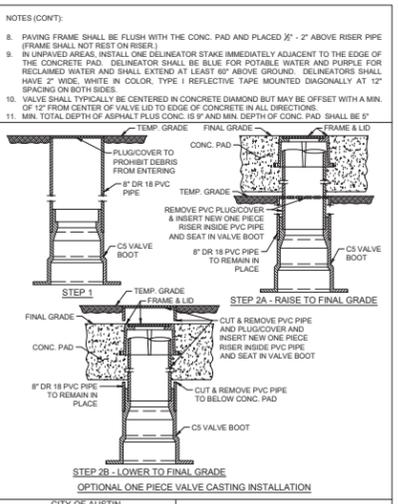


TYPICAL GATE VALVE 4\"/>

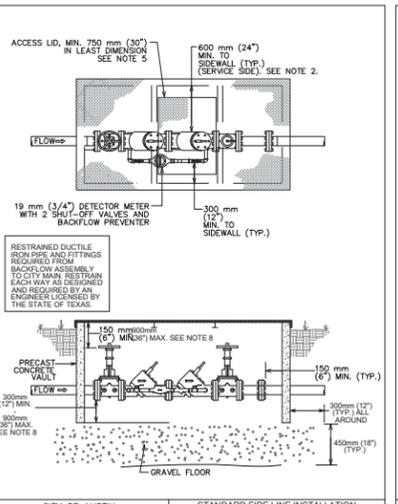


CONCRETE & H.M.A.C.

NOTES:
 1. SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 2015, SUB-GRADE PREPARATION.
 2. TO ADJUST VALVE CASTINGS TO FINAL GRADE, REMOVE RISER PIPE BELOW SUB-GRADE AND INSTALL APPROPRIATE LENGTH OF NEW RISER PIPE TO ACHIEVE FINAL GRADE. CONNECT THE TWO PIECES OF RISER PIPE WITH A 4\"/>



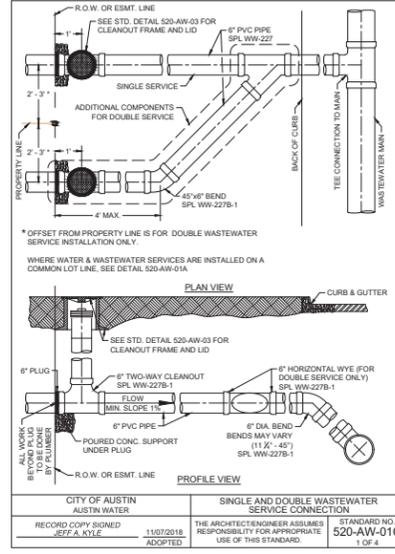
TYPICAL GATE VALVE 4\"/>



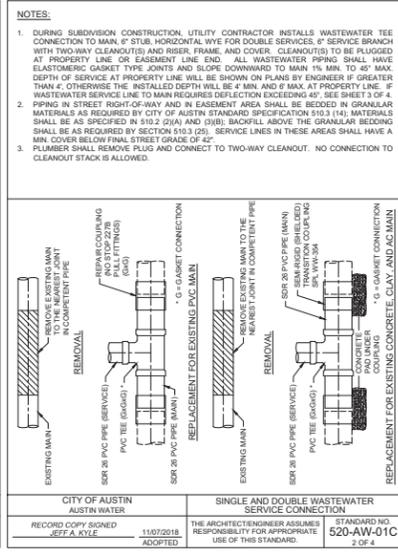
STANDARD FIRE LINE INSTALLATION WITHOUT MASTER METER



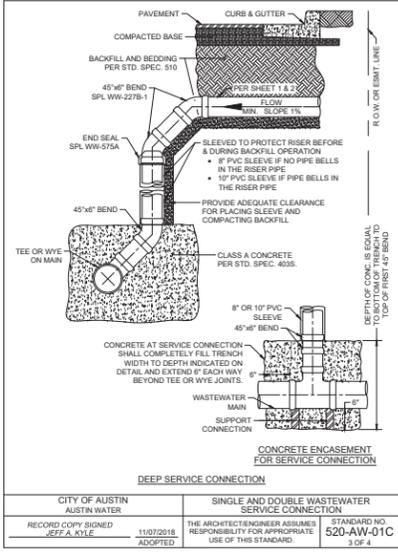
STANDARD FIRE LINE INSTALLATION WITH MASTER METER



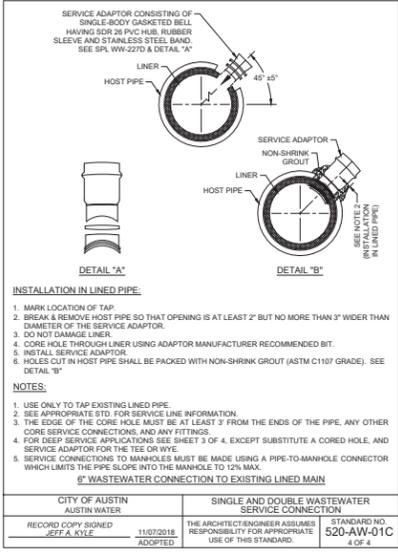
SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION



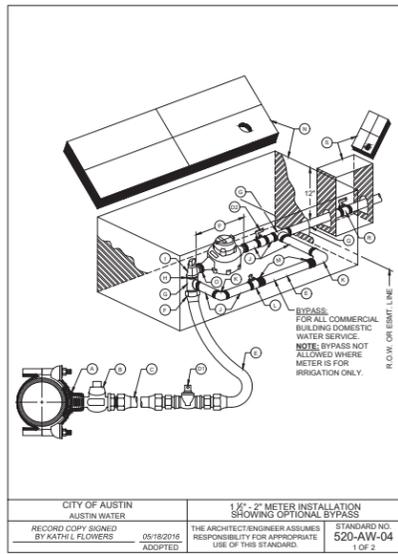
REPLACEMENT FOR EXISTING CONCRETE, CLAY, AND AC MAIN



DEEP SERVICE CONNECTION



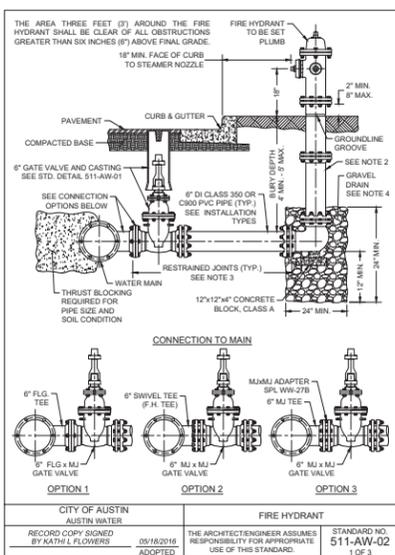
INSTALLATION IN LINED PIPE



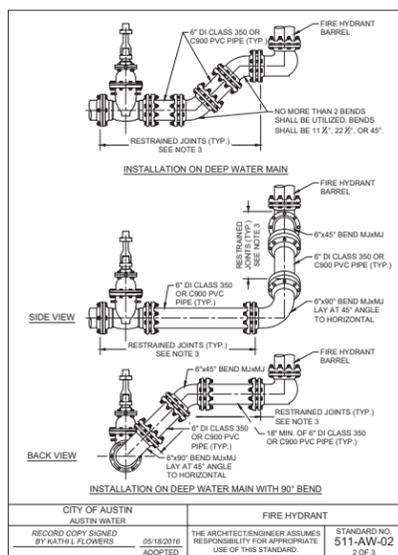
1 1/2\"/>



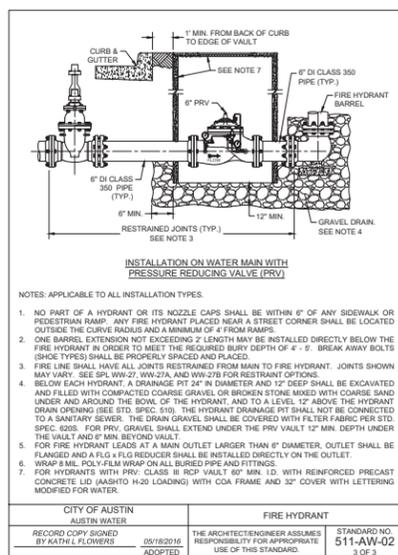
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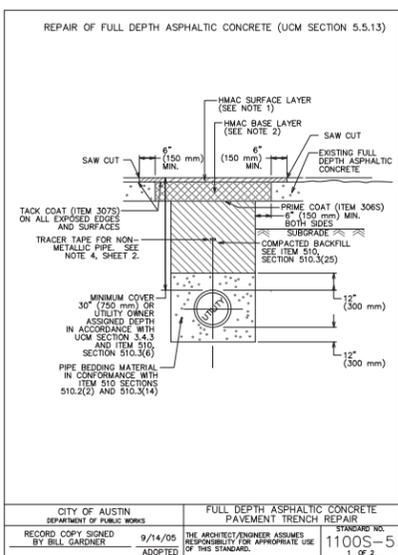
FIRE HYDRANT



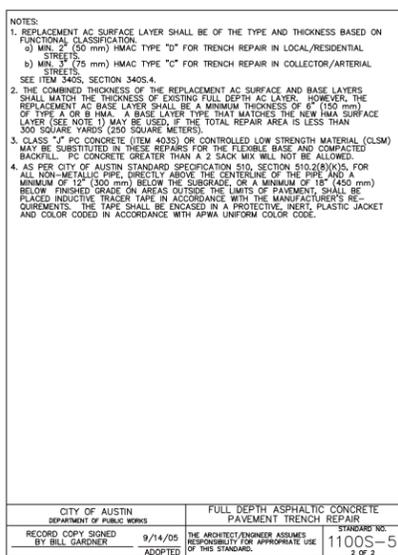
INSTALLATION ON DEEP WATER MAIN



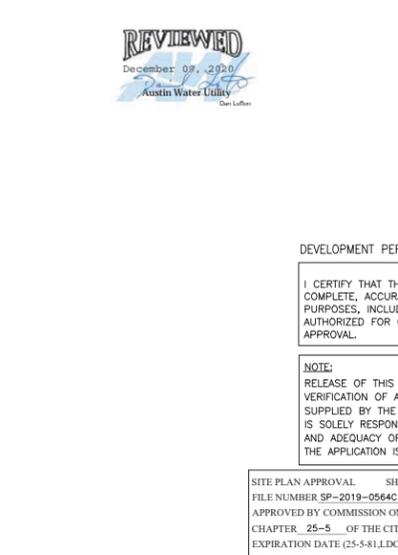
INSTALLATION ON WATER MAIN WITH PRESSURE-REDUCING VALVE (PRV)



REPAIR OF FULL DEPTH ASPHALTIC CONCRETE (UCM SECTION 5.13)



FULL DEPTH ASPHALTIC CONCRETE PAVEMENT TRENCH REPAIR



FULL DEPTH ASPHALTIC CONCRETE PAVEMENT TRENCH REPAIR

CITY OF AUSTIN
 RECORDED COPY SIGNED BY KATHI L FLOWERS 05/18/2016 ADOPTED THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. STANDARD NO. 511-AW-02 1 OF 3

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CITY OF AUSTIN
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Scale: AS SHOWN
 Designed by: [Signature]
 Drawn by: [Signature]
 Checked by: [Signature]
 Date: OCTOBER 2020
 Project No. SP-2019-0564C

REVIEWED
 December 15, 2020
 Rachel Reddig
 Industrial Water

REVIEWED
 December 09, 2020
 Austin Water Utility
 Dan Luffin

APPROVED
 December 22, 2021
 Scott J. Foster
 Licensed Professional Engineer
 State of Texas No. 197220

CONSTRUCTION DETAILS SHEET 3

**MCNEIL DRIVE
 MEDICAL CENTER
 6500 MCNEIL DRIVE
 AUSTIN, TEXAS**

360 PROFESSIONAL SERVICES, INC.
 TEXAS FIRM REGISTRATION #4932
 P.O. BOX 16439
 CEDAR PARK, TEXAS 78630
 PHONE (512) 354-4682
 FAX (512) 354-7882

DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

NOTE:
 RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY THE CITY OF AUSTIN.

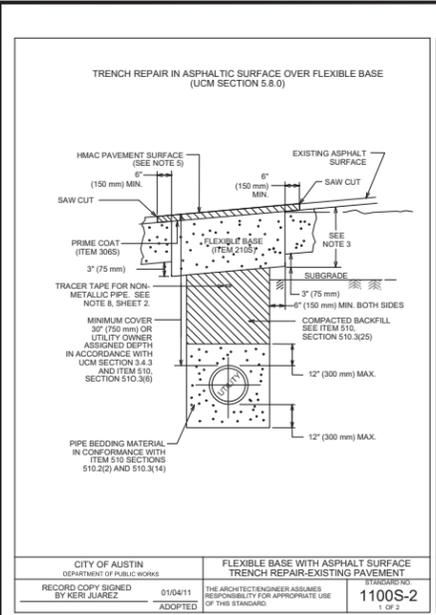
SITE PLAN APPROVAL SHEET 26 OF 37
 FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
 APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-S-81.LDC) CASE MANAGER J. SULTANA
 PROJECT EXPIRATION DATE (ORD.979095-A) DWPZ DDZ_X

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE ZONING LD AND GO

Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

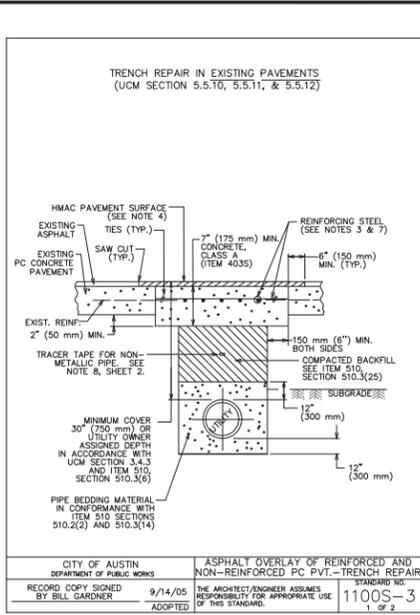
Final plot must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

SHEET 26 OF 37
 SP-2019-0564C



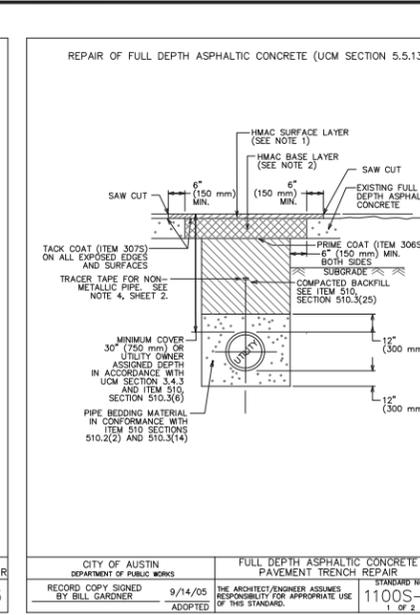
TRENCH REPAIR IN ASPHALTIC SURFACE OVER FLEXIBLE BASE (UCM SECTION 5.8.0)

NOTES:
 1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" (300 mm) WIDER THAN UNDISTURBED SIDES OF THE TRENCH AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
 2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMA. TEMPORARY MIX SHALL BE PLACED OVER FLEXIBLE BASE.
 3. ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3" (75 mm), BUT IN NO CASE LESS THAN 12" (300 mm).
 4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" (250 mm) OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
 5. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 6. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 7. TACK COAT ALL EXPOSED EDGES AND SURFACES (SPEC ITEM 3075).
 8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.



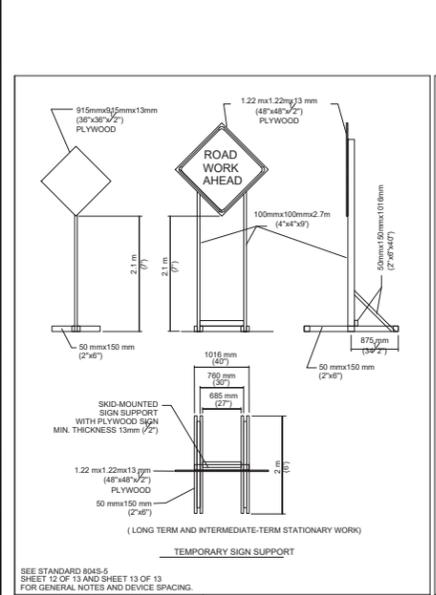
TRENCH REPAIR IN EXISTING PAVEMENTS (UCM SECTION 5.5.10, 5.5.11, & 5.5.12)

NOTES:
 1. EXISTING REINFORCED CONCRETE SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1 1/2" (40 mm) AT A MINIMUM DISTANCE OF 6" (150 mm) BACK OF THE VERTICAL WALL OF THE UTILITY TRENCH.
 2. REPLACEMENT REINFORCED CONCRETE SHALL BE CLASS A AND SHALL MATCH EXISTING FINISH AND THICKNESS BUT THE THICKNESS SHALL NOT BE LESS THAN 7" (175 mm).
 3. REINFORCING STEEL IN THE REPLACEMENT SLAB SHALL BE AT LEAST #5 (19M) BARS. REINFORCING STEEL SHALL BE LAP SPLICED ACCORDING TO ITEM NO. 4065. IF LENGTH OF LAP CAN NOT BE ACHIEVED, BARS SHALL BE OVERLAPPED AND WELDED A MINIMUM LENGTH OF 6" (150 mm).
 4. IF EXISTING PAVEMENT SECTION HAS AN ASPHALT SURFACE THE FOLLOWING APPLIES: REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 5. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 6. TACK COAT (ITEM 3075) ALL EXPOSED EDGES AND SURFACES.
 7. ON EXISTING PC CONCRETE PAVEMENT WITHOUT REINFORCING STEEL USE 4" TO 6" PAVEMENT THICKNESS OF 1" (150 mm) OR GREATER.
 8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.



REPAIR OF FULL DEPTH ASPHALTIC CONCRETE (UCM SECTION 5.5.13)

NOTES:
 1. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 2. THE COMBINED THICKNESS OF THE REPLACEMENT AC SURFACE AND BASE LAYERS SHALL MATCH THE THICKNESS OF EXISTING FULL DEPTH AC LAYER. HOWEVER, THE REPLACEMENT AC BASE LAYER SHALL BE A MINIMUM THICKNESS OF 6" (150 mm) OF TYPE A OR B HMA. A BASE LAYER TYPE THAT MATCHES THE NEW HMA SURFACE LAYER (SEE NOTE 1) MAY BE USED, IF THE TOTAL REPAIR AREA IS LESS THAN 300 SQUARE YARDS (250 SQUARE METERS).
 3. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 4. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.



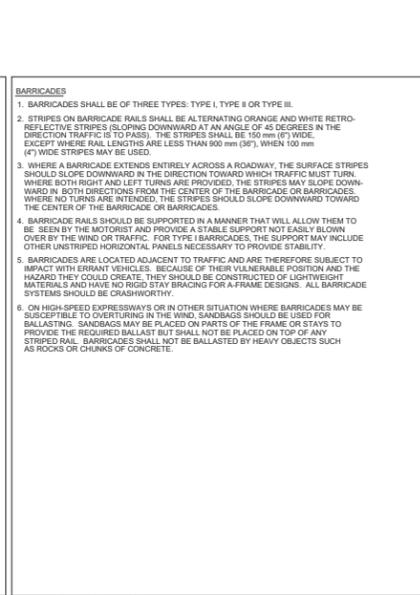
FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT

NOTES:
 1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" (300 mm) WIDER THAN UNDISTURBED SIDES OF THE TRENCH AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
 2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMA. TEMPORARY MIX SHALL BE PLACED OVER FLEXIBLE BASE.
 3. ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3" (75 mm), BUT IN NO CASE LESS THAN 12" (300 mm).
 4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" (250 mm) OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
 5. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 6. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 7. TACK COAT ALL EXPOSED EDGES AND SURFACES (SPEC ITEM 3075).
 8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.



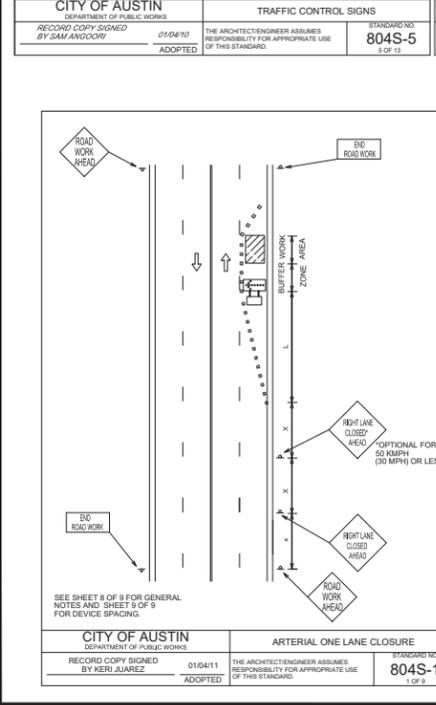
ASPHALT OVERLAY OF REINFORCED AND NON-REINFORCED PC PVT - TRENCH REPAIR

NOTES:
 1. EXISTING REINFORCED CONCRETE SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1 1/2" (40 mm) AT A MINIMUM DISTANCE OF 6" (150 mm) BACK OF THE VERTICAL WALL OF THE UTILITY TRENCH.
 2. REPLACEMENT REINFORCED CONCRETE SHALL BE CLASS A AND SHALL MATCH EXISTING FINISH AND THICKNESS BUT THE THICKNESS SHALL NOT BE LESS THAN 7" (175 mm).
 3. REINFORCING STEEL IN THE REPLACEMENT SLAB SHALL BE AT LEAST #5 (19M) BARS. REINFORCING STEEL SHALL BE LAP SPLICED ACCORDING TO ITEM NO. 4065. IF LENGTH OF LAP CAN NOT BE ACHIEVED, BARS SHALL BE OVERLAPPED AND WELDED A MINIMUM LENGTH OF 6" (150 mm).
 4. IF EXISTING PAVEMENT SECTION HAS AN ASPHALT SURFACE THE FOLLOWING APPLIES: REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 5. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 6. TACK COAT (ITEM 3075) ALL EXPOSED EDGES AND SURFACES.
 7. ON EXISTING PC CONCRETE PAVEMENT WITHOUT REINFORCING STEEL USE 4" TO 6" PAVEMENT THICKNESS OF 1" (150 mm) OR GREATER.
 8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.



FULL DEPTH ASPHALTIC CONCRETE PAVEMENT TRENCH REPAIR

NOTES:
 1. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
 a) MIN. 2" (50 mm) HMA TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
 b) MIN. 2" (50 mm) HMA TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
 c) SEE ITEM 3405, SECTION 3405.4.
 2. THE COMBINED THICKNESS OF THE REPLACEMENT AC SURFACE AND BASE LAYERS SHALL MATCH THE THICKNESS OF EXISTING FULL DEPTH AC LAYER. HOWEVER, THE REPLACEMENT AC BASE LAYER SHALL BE A MINIMUM THICKNESS OF 6" (150 mm) OF TYPE A OR B HMA. A BASE LAYER TYPE THAT MATCHES THE NEW HMA SURFACE LAYER (SEE NOTE 1) MAY BE USED, IF THE TOTAL REPAIR AREA IS LESS THAN 300 SQUARE YARDS (250 SQUARE METERS).
 3. CLASS 2" PC CONCRETE (ITEM 4035) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
 4. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(9)(K), FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

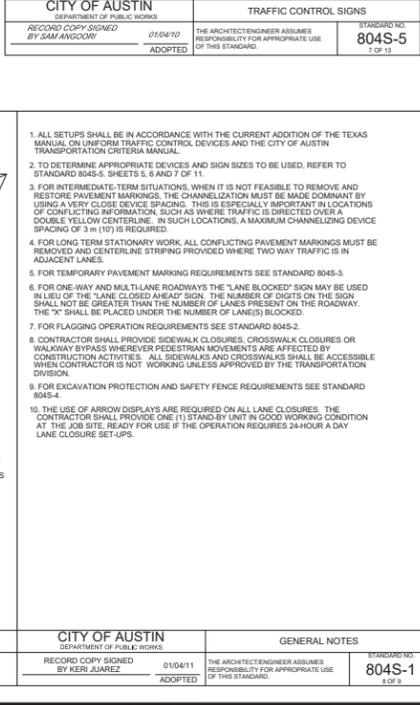


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

TRAFFIC CONTROL SIGNS

STANDARD NO. 8045-5
 RECORD COPY SIGNED BY SAM ANDGORP 01/04/10 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

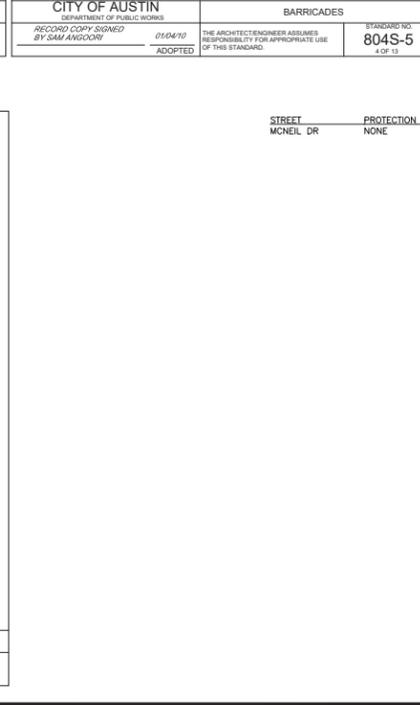


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

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CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

TRAFFIC CONTROL SIGNS

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Typical Transition Lengths and Suggested Maximum Spacings of Devices

Speed (MPH)	Posted Speed (MPH)	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet)	Suggested Max. Device Spacing Meters (Feet)	Suggested Sign Spacing Meters (Feet)
45	30	LWS-60	3,010 (9,876) 3,311 (10,697) 3,612 (11,833)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
55	35	LWS-60	45 (143) 60 (195) 75 (247)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
65	45	LWS-60	60 (183) 80 (247) 100 (311)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
70	45	LWS-60	75 (228) 100 (311) 125 (394)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
80	55	LWS-60	90 (276) 120 (370) 150 (464)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
95	65	LWS-60	105 (324) 140 (430) 175 (536)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
105	65	LWS-60	120 (370) 160 (492) 200 (614)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)
115	70	LWS-60	135 (415) 180 (551) 225 (687)	On a taper: 150 (492) 180 (579) 210 (689)	On a target: 150 (492) 180 (579) 210 (689)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

STANDARD NO. 8045-1
 RECORD COPY SIGNED BY KERI JUAREZ 01/04/11 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

STANDARD NO. 8045-1
 RECORD COPY SIGNED BY KERI JUAREZ 01/04/11 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

No.	Date	Revisions	App.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

TRAFFIC CONTROL SIGNS

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CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

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CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS

TRAFFIC CONTROL SIGNS

STANDARD NO. 8045-5
 RECORD COPY SIGNED BY SAM ANDGORP 01/04/10 ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

360 PROFESSIONAL SERVICES, INC.

SCOTT J. FOSTER
 LICENSED PROFESSIONAL ENGINEER
 09/27/2020

MCNEIL DRIVE MEDICAL CENTER 6500 MCNEIL DRIVE AUSTIN, TEXAS

CONSTRUCTION DETAILS SHEET 6

DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

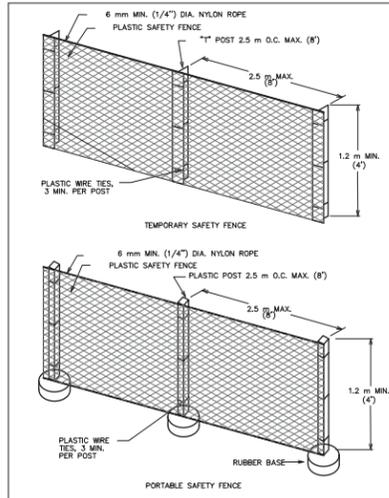
Scale: AS SHOWN

Director, Development Services Department
 RELEASED FOR GENERAL COMPLIANCE: ZONING LD AND GO

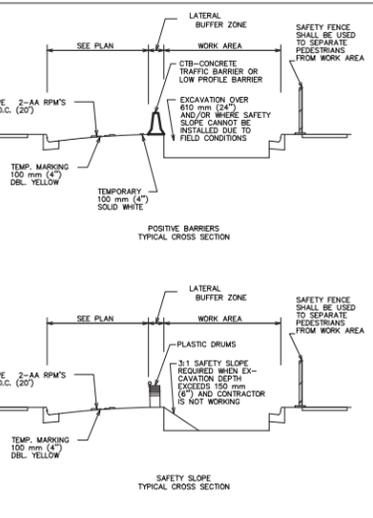
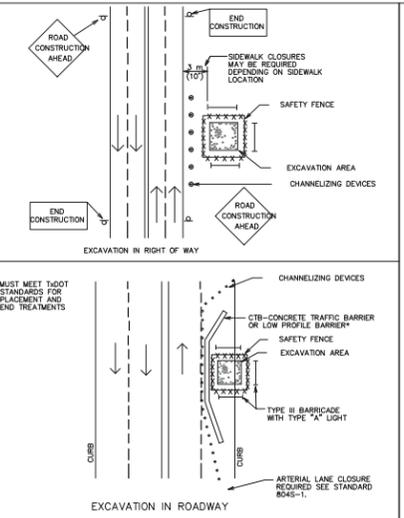
Rev. 1 Correction 1
 Rev. 2 Correction 2
 Rev. 3 Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

SHEET 29 OF 37
 SP-2019-0564C



- SAFETY FENCE SHALL BE USED TO PROTECT ALL EXCAVATIONS IN THE RIGHT-OF-WAY.
- SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIAN.
- ALL SAFETY FENCING SHALL BE PLASTIC, 1,200 mm (48\") MINIMUM HEIGHT AND ORANGE IN COLOR.
- SAFETY FENCE USED WITHIN THE ROADWAY SHALL BE REFLECTORIZED WITH A MINIMUM OF TWO (2) STRIPS OF RETROREFLECTIVE MATERIAL, A MINIMUM OF 25 mm (1\") WIDE, THE LENGTH OF THE FENCE OR DELINEATED BY CHANNELIZING DEVICES.
- SAFETY FENCE USED TO SEPARATE SIDEWALKS FROM CONSTRUCTION ACTIVITIES SHALL HAVE MINIMUM ENDOGAGEMENT TO THE SIDEWALK.
- AS A MINIMUM, SAFETY FENCING IS REQUIRED IN AREAS ADJACENT TO EXCAVATIONS GREATER THAN OR EQUAL TO 150 mm (6\").
- SAFETY FENCING SHALL BE PAID FOR UNDER ITEM BOSS, BARRICADES, SIGNS AND TRAFFIC HANDLING, PAY ITEM NO. BOSS-SF.
- PORTABLE SAFETY FENCE MOUNTS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO CONSTRUCTION.

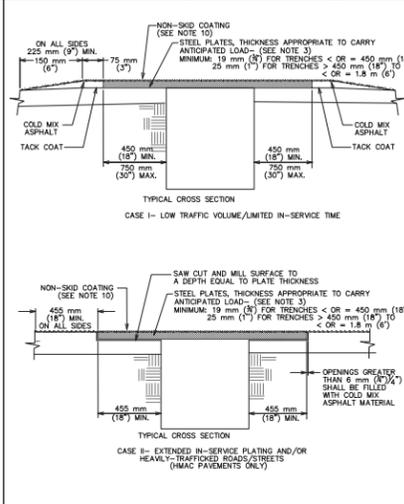
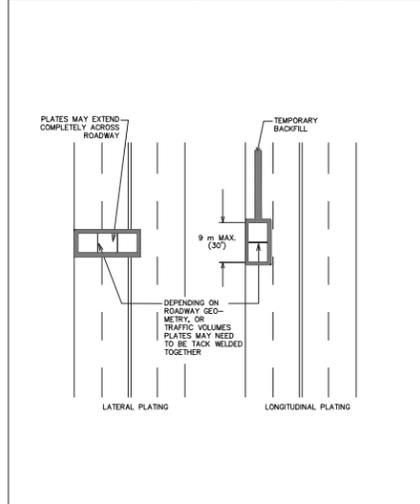


CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
STANDARD NO. 804S-4
1 OF 9

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
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STANDARD NO. 804S-4
2 OF 9

CITY OF AUSTIN
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3 OF 9

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STANDARD NO. 804S-4
4 OF 9



- NOTES:
- INSIDE BRIDGES MUST CROSS TRENCHES. THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES.
 - THE USE OF STEEL PLATES SHALL BE APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION OF WATERSHED PROTECTION AND DEVELOPMENT DEPARTMENT PRIOR TO INITIATION OF CONSTRUCTION.
 - THE THICKNESS OF PLATES FOR TRENCH WIDTHS EXCEEDING 1.8 m (6') SHALL BE ESTABLISHED IN AN ANALYSIS COMPLETED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS. THE ANALYSIS SHALL BE BASED ON HS-20 TRAFFIC LOADING WITH A MAXIMUM PLATE DEFLECTION OF 50 mm (2\"). WHEN EXPERIENCING ROAD LOADING, FOR SITUATIONS WHERE MULTIPLE LAYERS OF PLATES (OR STACKED PLATES) ARE TO BE EMPLOYED, THE SEAMS (I.E. THE INTERFACE BETWEEN PLATES) SHALL BE PLACED PERPENDICULAR TO THE SEAMS OF THE UNDERLYING PLATES.
 - WHEN APPROVED, THE TYPE OF PLATE INSTALLATION SHALL BE BASED ON THE ANTICIPATED LENGTH OF TIME THE PLATE WILL BE IN SERVICE:
CASE I: A CASE I INSTALLATION SHALL APPLY FOR NO LONGER THAN A 2 WEEK PERIOD.
CASE II: A CASE II INSTALLATION SHALL APPLY FOR NO LONGER THAN 2 WEEK PERIOD.
 - THE TOPSIDE OF THE STEEL PLATE SHALL BE FLAT AND FREE OF ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS OR SURFACE IRREGULARITIES.
 - PLATES WITH A PERMANENT DISPLACEMENT (I.E. DISPLACEMENT ANYWHERE ON THE SURFACE OF THE PLATE WITH RESPECT TO A PLANE FORMED BY THE OUTSIDE EDGES) THAT EXCEEDS 12 mm (1/2\") SHALL NOT BE USED FOR PLATING PURPOSES. PLATES THAT DEVELOP A PERMANENT DISPLACEMENT EXCEEDING 12 mm (1/2\") DURING SERVICE SHALL BE REMOVED AND REPLACED.
 - PLATES SHALL BE PROVIDED WITH APPROPRIATE NUMBER OF KEYHOLE SLOTS OR CIRCULAR HOLES FOR HANDLING, LIFTING, INSTALLATION AND REMOVAL PURPOSES.
 - THE CONTRACTOR SHOULD AVOID USING A LONG SERIES OF PLATES THAT RUN PARALLEL TO VEHICULAR TRAFFIC WHEEL PATHS.
 - ADDITIONAL METHODS OF SECURING PLATES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
 - FOR PLATES 1.8 m (6') OR GREATER IN DIRECTION OF TRAFFIC, A NON-SKID COATING SHOULD BE APPLIED TO THE ENTIRE SURFACE AREA OF ALL PLATES, AS WELL AS ADJACENT AREAS. THE NON-SKID COATING SHALL BE A TEXTURED COATING OF AMERICA, INC.) STRATA-GRIP DECK COATING SYSTEM, SUPPLIX, INC. SPS (SLIP PROTECTION SURFACE) OR AN EQUIVALENT PRODUCT APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED
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STANDARD NO. 804S-4
5 OF 9

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6 OF 9

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
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STANDARD NO. 804S-4
7 OF 9

DEVELOPMENT PERMIT NO. SP-2019-0564C

I CERTIFY THAT THESE ENGINEERING DOCUMENTS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THE INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION PRIOR TO FORMAL CITY APPROVAL.

NOTE:
RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY

SITE PLAN APPROVAL SHEET 30 OF 37
FILE NUMBER SP-2019-0564C APPLICATION DATE 12/10/2019
APPROVED BY COMMISSION ON UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81.LDC) CASE MANAGER J. SULTANA
PROJECT EXPIRATION DATE (ORD.0970905-A) DWPZ DDZ X

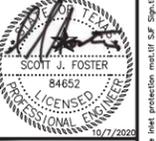
Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: ZONING LO AND GO

Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3

Final plan must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

App. _____
Revisions _____
No. _____ Date _____

360 PROFESSIONAL SERVICES, INC.
TEXAS FIRM REGISTRATION F4932
P.O. BOX 199
CEDAR PARK, TEXAS 78630
PHONE (512) 354-4882
FAX (512) 360-7882



MCNEIL DRIVE
MEDICAL CENTER
6500 MCNEIL DRIVE
AUSTIN, TEXAS

CONSTRUCTION DETAILS
SHEET 7

CITY OF AUSTIN
APPROVED
DESIGNED BY: AS SHOWN
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: OCTOBER 2, 2021
PROJECT NO. SP-2019-0564C

SHEET 30 OF 37
SP-2019-0564C

FILED BY: [Signature] DATE: 10/20/2021
 PROJECT: 2019-0564C
 SHEET: 30 OF 37
 TITLE: CONSTRUCTION DETAILS SHEET 7
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 10/20/2021
 PROJECT NO. SP-2019-0564C

ATTACHMENT G
INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN FOR
PERMANENT BMPs

PROJECT NAME: McNeil Drive Medical Center
ADDRESS: 6500 McNeil Drive
CITY, STATE: Austin, TX

SAND FILTER SYSTEM

- Inspections: BMP facilities must be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired immediately. Cracks, voids and undermining should be patched/filled to prevent additional structural damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage.
- Sediment Removal: Remove sediment from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6 inches or when the proper functioning of inlet and outlet structures is impaired. Sediment should be cleared from the inlet structure at least every year and from the sedimentation basin at least every 5 years.
- Media Replacement: Maintenance of the filter media is necessary when the drawdown time exceeds 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited to the top 2 to 3 inches.
- Debris and Litter Removal: Debris and litter will accumulate near the sedimentation basin outlet device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.
- Filter Underdrain: Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.
- Mowing. Grass areas in and around sand filters must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. Vegetation on the pond embankments should be mowed as appropriate to prevent the establishment of woody vegetation.
- Access. Periodic maintenance shall be performed via ladder on ponds with vertical walls in absence of access ramps. In the event larger equipment is required, use of temporary crane(s) shall be required and/or temporary ramps installed.

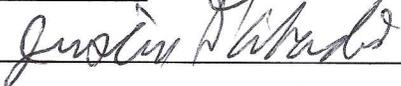
All inspection and testing records shall be kept on-site for a period not less than three (3) years. An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: D'Abadie Family Partnership, Ltd. (Justin D'Abadie)

Mailing Address: 5501 Fort Benton Drive

City, State: Austin, Texas Zip: 78735

Telephone: (604) 699-2878

Signature of Responsible Party  Date 7-3-23

VI. AGENT AUTHORIZATION FORM (TCEQ-0599)

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

I _____
Justin D'Abadie
Print Name

_____ Owner _____
Title - Owner/President/Other

of _____
D'Abadie Family Partnership, Ltd.
Corporation/Partnership/Entity Name

have authorized _____
Scott J. Foster, P.E.
Print Name of Agent/Engineer

of _____
360 Professional Services, 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:

Applicant's Signature

Justin D'Abadie
6-27-23 Date

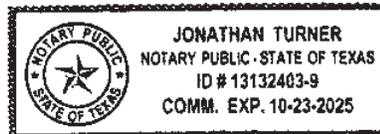
THE STATE OF TX §
County of Willramson §

BEFORE ME, the undersigned authority, on this day personally appeared Justin D'Abadie 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 27 day of June, 2023

[Signature]
NOTARY PUBLIC
JONATHAN TURNER
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10/23/2025



VII. APPLICATION FEE FORM (TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: McNeil Drive Medical Center

Regulated Entity Location: 6500 McNeil Road

Name of Customer: D'Abadie Family Partnership Ltd.

Contact Person: Justin D'Abadie

Phone: (604) 699-2878

Customer Reference Number (if issued): CN 601391550

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

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	1.98 Acres	\$ 4,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: _____

Justin D'Abadie

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

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

VIII. CORE DATA FORM (TCEQ-10400)



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)

New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)

Renewal (Core Data Form should be submitted with the renewal form) Other

2. Customer Reference Number (if issued)

CN 601391550

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

3. Regulated Entity Reference Number (if issued)

RN 102732369

SECTION II: Customer Information

4. General Customer Information **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

New Customer Update to Customer Information Change in Regulated Entity Ownership

Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (if an individual, print last name first: eg: Doe, John) If new Customer, enter previous Customer below:

D'Abadie Family Partnership, Ltd.

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

0012637010 32036192089

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

Government: City County Federal Local State Other Sole Proprietorship Other:

12. Number of Employees **13. Independently Owned and Operated?**

0-20 21-100 101-250 251-500 501 and higher Yes No

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

Owner Operator Owner & Operator Other:

Occupational Licensee Responsible Party VCP/BSA Applicant

15. Mailing Address: 2707 Gholsen Drive 5501 FORT BENTON DR

City: Cedar Park Austin State: TX ZIP: 78613 78735 ZIP + 4:

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

drd6584@gmail.com

18. Telephone Number **19. Extension or Code** **20. Fax Number** (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)

New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

McNeil Drive Medical Center

23. Street Address of the Regulated Entity:

6500 McNeil Drive

(No PO Boxes)

City

Cedar Park

State

TX

ZIP

78729

ZIP + 4

24. County

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

25. Description to Physical Location:

26. Nearest City

State

Nearest ZIP Code

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

27. Latitude (N) in Decimal:

30.440109

28. Longitude (W) in Decimal:

-97.753667

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

30

26

24.4

97

45

13.2

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

8011

8620

621111

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

34. Mailing Address:

6500 McNeil Drive

Address:

City

Austin

State

TX

ZIP

78729

ZIP + 4

35. E-Mail Address:

drd@6584@gmail.com

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(604) 699-2878

() -

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"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name: Scott J. Foster, P.E.		41. Title: Principal	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 354-4682		() -	scott.foster@360psinc.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 5 and/or as required for the updates to the ID numbers identified in field 39.

Company:	D'Abadie Family Partnership, Ltd.	Job Title:	Owner
Name (In Print):	Justin D'Abadie	Phone:	(604) 699-2878
Signature:	<i>Justin D'Abadie</i>	Date:	