



TCEQ WATER POLLUTION ABATEMENT PLAN

**CTT Headquarters Complex
15807 Crossroads Dr.
Austin, TX 78717**

July 2024

Prepared For:
Cross Texas Transmission, LLC
1122 S. Capital of Texas Hwy #Ste 100
Austin, TX 78746

Prepared By:
Kimley-Horn and Associates, Inc.
10814 Jollyville Road
Building IV, Suite 200
Austin, TX 78759
TEXAS REGISTRATION #928

Kimley»Horn

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SECTION 1: EDWARDS AQUIFER APPLICATION COVER PAGE

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

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: CTT Headquarters Complex | | | | | 2. Regulated Entity No.: | | | | |
| 3. Customer Name: Cross Texas Transmission, LLC | | | | | 4. Customer No.: | | | | |
| 5. Project Type: (Please circle/check one) | <input checked="" type="radio"/> New | <input type="radio"/> Modification | | | <input type="radio"/> Extension | | <input type="radio"/> Exception | | |
| 6. Plan Type: (Please circle/check one) | <input checked="" type="radio"/> WPAP | <input type="radio"/> CZP | <input type="radio"/> SCS | <input type="radio"/> UST | <input type="radio"/> AST | <input type="radio"/> EXP | <input type="radio"/> EXT | Technical Clarification | Optional Enhanced Measures |
| 7. Land Use: (Please circle/check one) | <input type="radio"/> Residential | <input checked="" type="radio"/> Non-residential | | | | 8. Site (acres): | | 9.66 | |
| 9. Application Fee: | \$5,000 | 10. Permanent BMP(s): | | | | Partial Sedimentation/Filtration Pond | | | |
| 11. SCS (Linear Ft.): | N/A | 12. AST/UST (No. Tanks): | | | | N/A | | | |
| 13. County: | Williamson | 14. Watershed: | | | | Rattan 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>X</u> |
| Region (1 req.) | — | — | <u>X</u> |
| County(ies) | — | — | — |
| Groundwater Conservation District(s) | <u>—</u> Edwards Aquifer Authority <u>—</u> Barton Springs/ Edwards Aquifer <u>—</u> Hays Trinity <u>—</u> Plum Creek | <u>—</u> Barton Springs/ Edwards Aquifer | NA |
| City(ies) Jurisdiction | <u>—</u> Austin <u>—</u> Buda <u>—</u> Dripping Springs <u>—</u> Kyle <u>—</u> Mountain City <u>—</u> San Marcos <u>—</u> Wimberley <u>—</u> Woodcreek | <u>—</u> Austin <u>—</u> Bee Cave <u>—</u> Pflugerville <u>—</u> Rollingwood <u>—</u> Round Rock <u>—</u> Sunset Valley <u>—</u> West Lake Hills | <u>X</u> Austin Site deannexed from City <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.

Nicholas Z. Lutz, P.E.

Print Name of Customer/Authorized Agent

Nicholas Z. Lutz

3/25/2024

Signature of Customer/Authorized Agent

Date

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

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

SECTION 2: GENERAL INFORMATION

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: Nicholas Z. Lutz, P.E.

Date: February 26, 2024

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: CTT Headquarters Complex
2. County: Williamson County
3. Stream Basin: Rattan Creek
4. Groundwater Conservation District (If applicable): _____

5. Edwards Aquifer Zone:

- ☒ Recharge Zone
☐ Transition Zone

6. Plan Type:

- | | |
|--|--|
| <input checked="" type="checkbox"/> WPAP | <input type="checkbox"/> AST |
| <input type="checkbox"/> SCS | <input type="checkbox"/> UST |
| <input type="checkbox"/> Modification | <input type="checkbox"/> Exception Request |

7. Customer (Applicant):

Contact Person: Eric Schroeder
Entity: Cross Texas Transmission, LLC
Mailing Address: 1122 S Capital of Texas Hwy #Ste 100
City, State: Austin, TX Zip: 78746
Telephone: (806) 204-0071 FAX: _____
Email Address: eschroeder@lspower.com

8. Agent/Representative (If any):

Contact Person: Nicholas Z. Lutz, P.E.
Entity: Kimley-Horn
Mailing Address: 10814 Jollyville Road, Bldg. IV, Suite 200
City, State: Austin, TX Zip: 78759
Telephone: (512) 418-1771 FAX: _____
Email Address: nick.lutz@kimley-horn.com

9. Project Location:

- ☐ The project site is located inside the city limits of _____.
☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
☒ The project site is not located within any city's limits or ETJ.

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.

15807 Crossroads Drive, Austin, TX 78717 Northwest corner of SH-45 and Oconnor Dr intersection

11. ☒ Attachment A – Road Map. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

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

- ☒ Project site boundaries.
☒ USGS Quadrangle Name(s).
☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).
☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ The TCEQ must be able to inspect the project site or the application will be returned. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☐ Survey staking will be completed by this date: _____

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

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

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☐ Undeveloped (Cleared)
- ☒ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: _____

Prohibited Activities

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

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

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

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

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

Administrative Information

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

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
- ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
- ☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

- ☐ TCEQ cashier
- ☒ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
- ☐ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

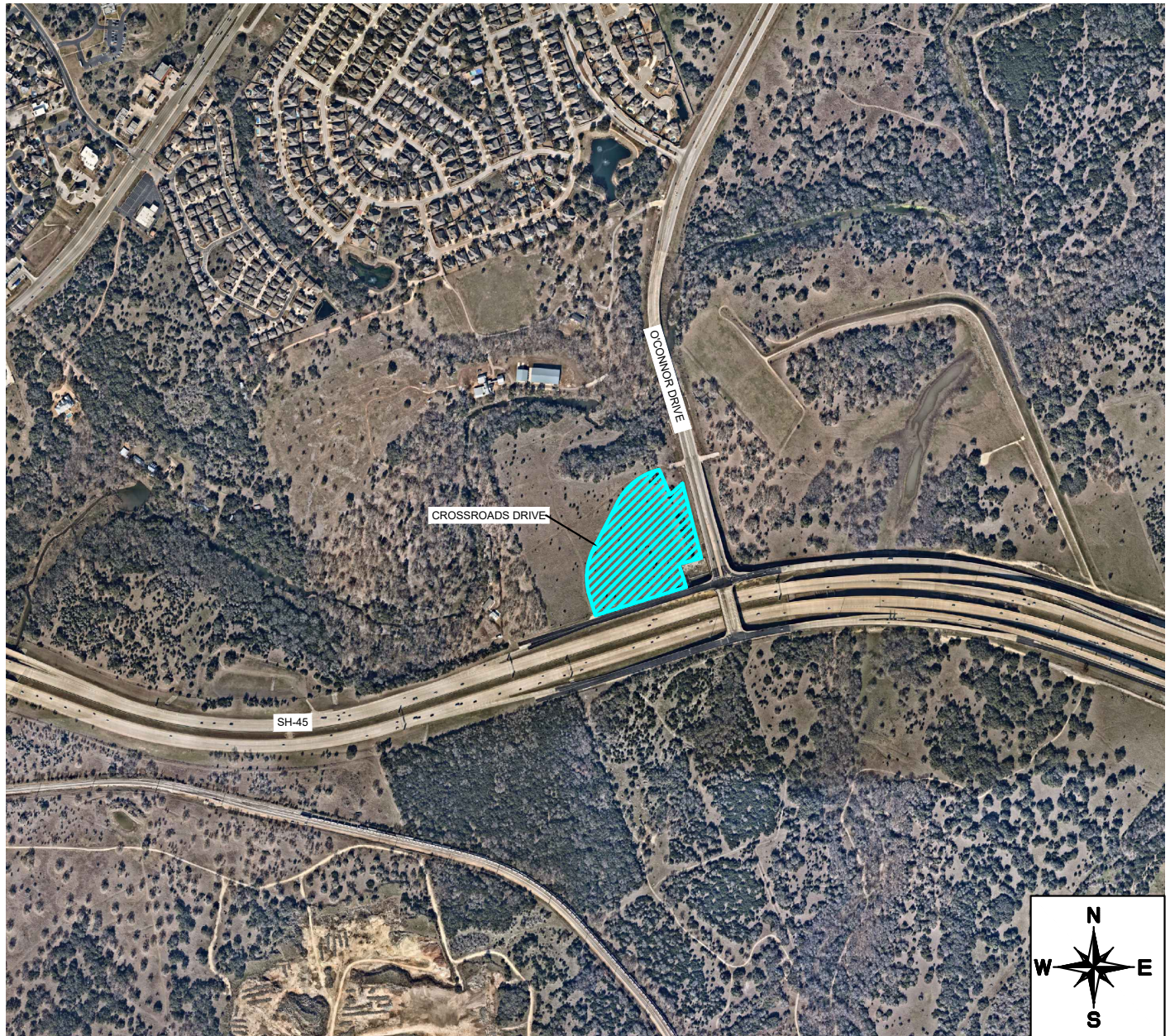
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies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

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.



Attachment A

Road Map



DIRECTIONS FROM TCEQ HEADQUARTERS TO PROJECT SITE

1. TAKE PARK 35 CIR TO S I-35 FRONTAGE RD
2. TURN RIGHT ONTO S I-35 FRONTAGE RD
3. CONTINUE ON CONVINGTON DR E TO TX-275 LOOP N/N LAMAR BLVD
4. CONTINUE ON TX-275 LOOP N/N LAMAR BLVD. TAKE W PARMER LN AND TX-1 LOOP N TO OCONNOR DR IN WILLIAMSON COUNTY.
5. EXIT FROM TEXAS 45 FRONTAGE RD
6. TURN RIGHT ONTO CROSSROADS DR. SITE DESTINATION ON RIGHT.

SHEET

EX A

Scale: 1"=1000'

Designed by: NZL

Drawn by: ASH

Checked by: NZL

Date: MAR 2024

Project No. 064421404

CTT HIGHWAY 45
ROAD MAP
AUSTIN, TEXAS

Kimley»Horn

10814 JOLLYVILLE ROAD AVALON IV SUITE 200 AUSTIN, TX 78759
PHONE: 512-418-1771 FAX: 512-239-3820
WWW.KIMLEY-HORN.COM
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
T&E Firm No. 928



Attachment B

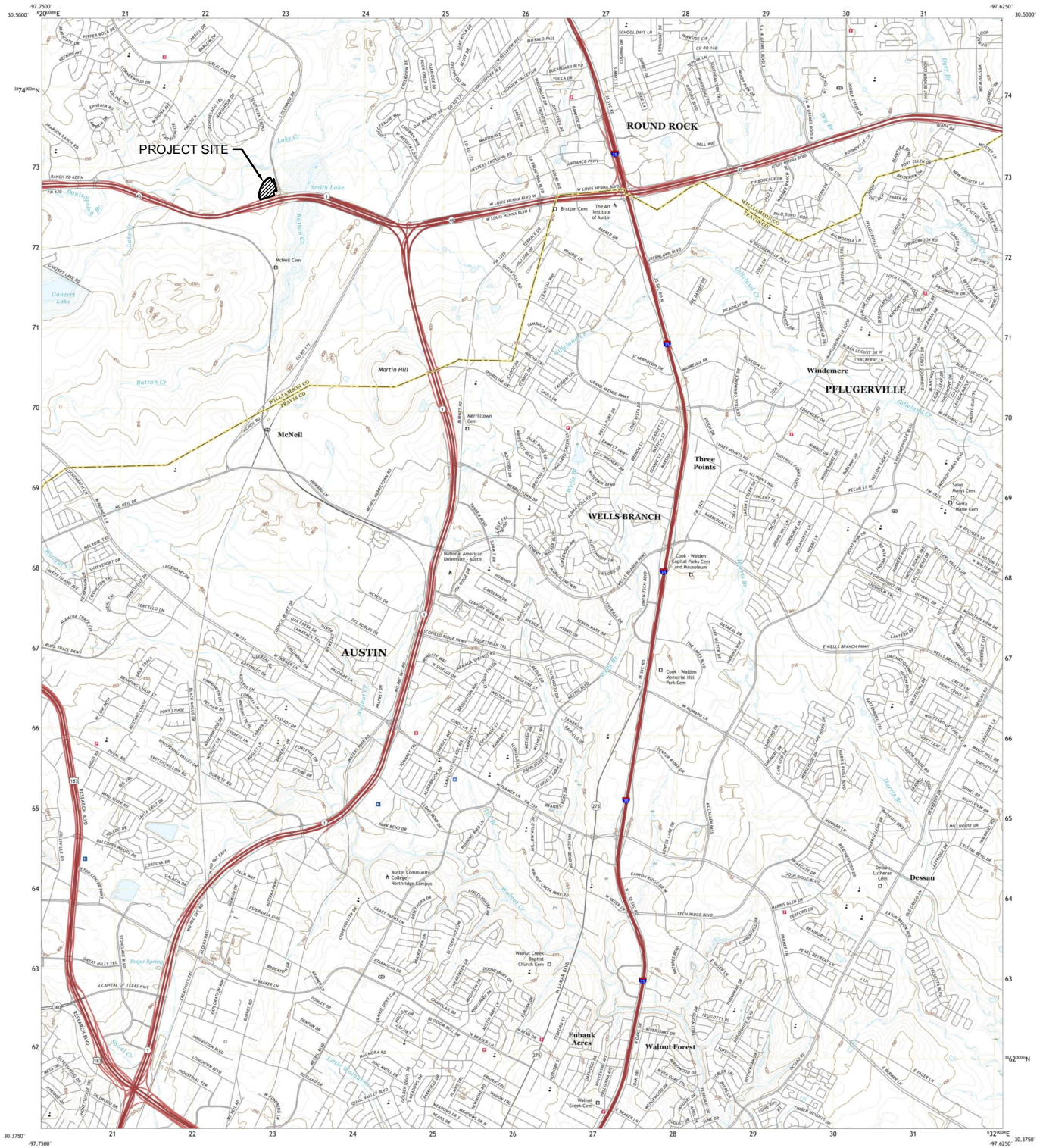
USGS Quadrangle Map



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



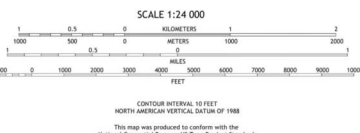
PFLUGERVILLE WEST QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1:50,000 scale and Contour Interval: 10 feet. Zone 14N
This map is not a legal document. Boundaries may be
generated for this map scale. Private lands within government
boundaries may not be shown. Obtain permission before
entering private lands.

Imagery: NAIP, September 2016, November 2016
Roads: U.S. Census Bureau, 2013, 2019
Names: National Hydrography Dataset, 2000, 2010
Hydrography: National Hydrography Dataset, 2000, 2010
Contours: National Elevation Dataset, 2010
Boundaries: Multiple sources; see metadata file 2019, 2021
Wetlands: FWS National Wetlands Inventory Not Available



| | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

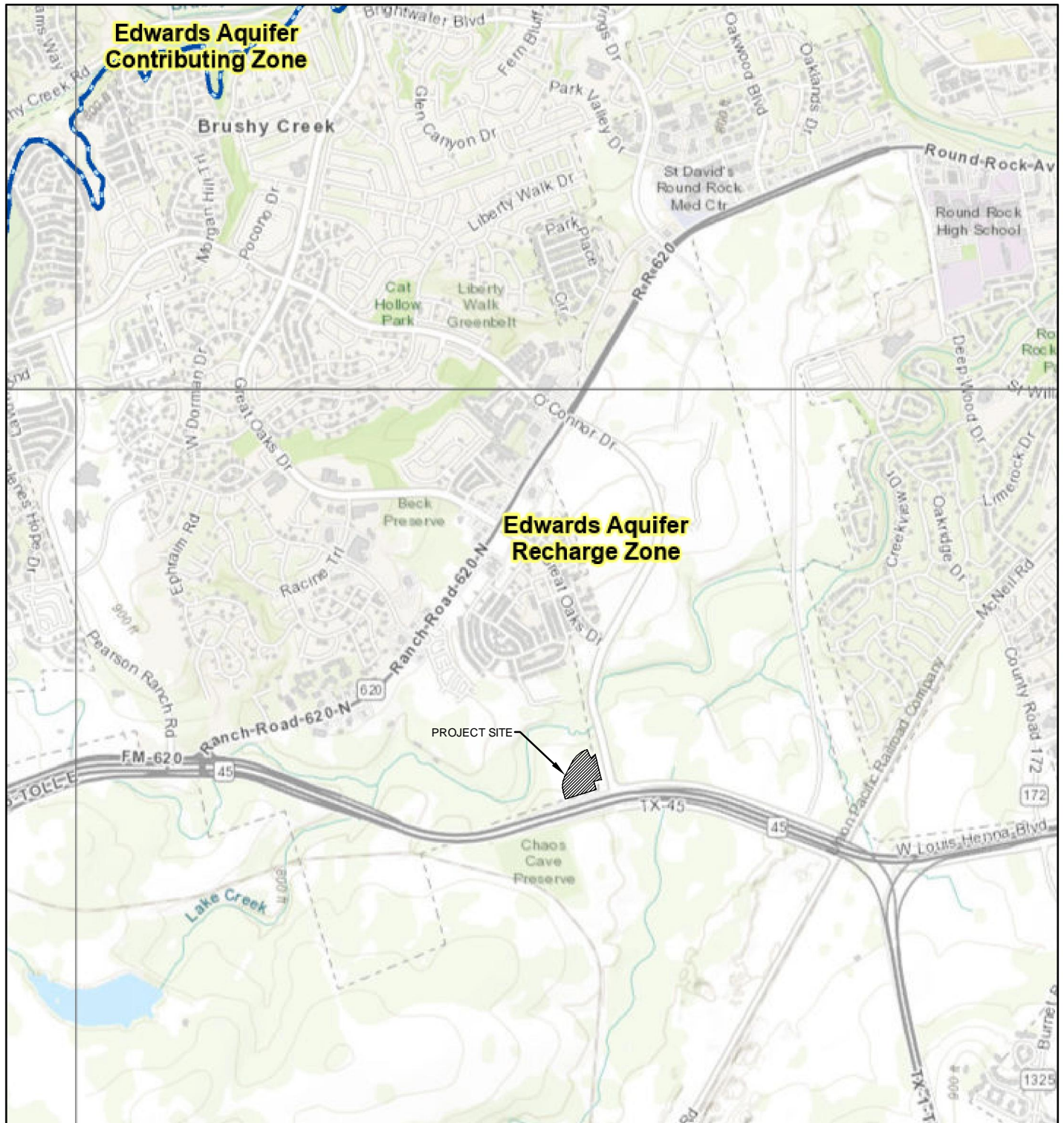
ALBANY QUADRANGLES

| ROAD CLASSIFICATION | |
|---------------------|-----------------|
| Expressway | Local Connector |
| Secondary Hwy | Local Road |
| Ramp | DRD |
| Interstate Route | US Route |
| | State Route |

PFLUGERVILLE WEST, TX
2022



Edwards Aquifer Zone Map



7/17/2023, 5:09:22 PM

TCEQ_EDWARDS_OFFICIAL_MAPS

Edwards Aquifer Label

Edwards Aquifer Boundary

Edwards Aquifer Boundary central line

1:36,112

0 0.28 0.55 1.1 mi
0 0.42 0.85 1.7 km

Austin Community College, City of Austin, County of Williamson, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, TCEQ

Attachment C

Project Narrative

The CTT Highway 45 project proposes office space and associated site improvements at the intersection of State Highway 45 and O'Connor Dr. The site has been deannexed from the City Limits of the City of Austin in Williamson County, Texas. The existing property is a 9.66-acre platted lot. The site is currently undeveloped.

The proposed improvements include a commercial office space development with associated site, utility, water quality, drainage, and grading improvements. The impervious cover for this project is limited to 65%. Access will be provided from Crossroads Drive. Proposed offsite improvements involve the construction of a sidewalk along the ROW of the property.

This project is located within the Rattan Creek Watershed which is classified as a suburban watershed. The southeast portion of this property is within the Federal Emergency Management Agency's 100-year floodplain according to Flood Insurance Rate Map #48491C0630F, effective 12/20/2019. None of the proposed development is within the 100-year floodplain. The site is located within the Edwards Aquifer Recharge Zone. Proposed best management practices (BMPs) include a partial sedimentation/filtration pond and detention pond. The pond will be sized to capture site runoff to control flow below existing conditions and is designed in accordance with City of Austin Watershed Protection Ordinance Regulations Summary Table, effective October 28, 2013, City of Austin Environmental Criteria Manual Appendix R-6, and TCEQ Technical Guidance Manual RG-348.

SECTION 3: GEOLOGIC ASSESSMENT

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: Luke Rome, P.G.

Telephone: (512) 476-0891

Date: October 25, 2022 , Updated March 5, 2024 Fax: 512-476-0893

Representing: SWCA Environmental Consultants; TBPG Firm Registration No. 50159 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: CTT Headquarters Complex

Project Information

1. Date(s) Geologic Assessment was performed: July 11, 2022

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) |
|-------------------------|--------|-----------------|
| See Section 3.2 (p. 28) | | |
| | | |
| | | |
| | | |
| | | |

** Soil Group Definitions (Abbreviated)*


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

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 200'
 Site Geologic Map Scale: 1" = 200'
 Site Soils Map Scale (if more than 1 soil type): 1" = 200'
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.

The logo for SWCA (Southwest Consulting & Associates) is positioned vertically on the left side of the page. It consists of the letters 'S', 'W', 'C', and 'A' in a large, stylized, light blue font, stacked one above the other.

Geologic Assessment for the CTT Headquarters Complex Project, City of Austin ETJ, Texas

OCTOBER 2022

UPDATED MARCH 2024

PREPARED FOR

LS POWER

PREPARED BY

SWCA Environmental Consultants

Texas Board of Professional Geoscientists, Firm Registration No. 50159

GEOLOGIC ASSESSMENT FOR THE CTT HEADQUARTERS COMPLEX PROJECT, CITY OF AUSTIN ETJ, TEXAS

LS Power

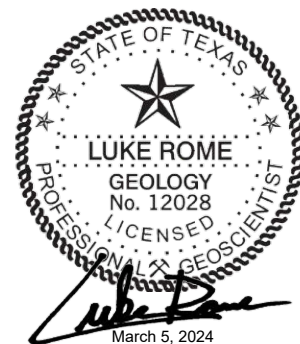
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Prepared by

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SWCA Project No. 74501-003



October 2022

Updated March 2024

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Appendices

Appendix A. Texas Commission on Environmental Quality (TCEQ) Forms

- Attachment A – Geologic Assessment Table
- Attachment B – Stratigraphic Column
- Attachment C – Native Description of Site Geology
- Attachment D – Site Geologic Maps

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1 INTRODUCTION

This narrative Geologic Assessment accompanies Texas Commission on Environmental Quality (TCEQ) Geologic Assessment Form TCEQ-0585 completed for the CTT Headquarters Complex (project). The project area consists of approximately 10-acres on the northeast corner of the intersection of O'Connor Drive and Texas Highway 45 Frontage Road (SH45 FR) in the City of Austin Extraterritorial Jurisdiction (ETJ), Williamson County, Texas (Figure 1).

2 METHODOLOGY

Scientists from SWCA Environmental Consultants (SWCA) studied records pertaining to all reputed caves in the project area and gathered information related to documented caves in the project vicinity prior to conducting fieldwork. Relevant information sources included the following:

- Internal SWCA data
- Unpublished data related to SWCA et al. (2008)
- ESRI® ArcGIS® Online Basemap Map Services
- U.S. Geological Survey (USGS) Plugerville West, Texas, 7.5-minute quadrangles (USGS 2022)
- Geologic maps and fault lines (Barnes 1974)

SWCA staff, under the supervision of a Texas Licensed Professional Geoscientist, conducted a pedestrian karst survey on July 11, 2022, to check current site conditions and identify any potential geologic or recharge features present within the project area.

The pedestrian survey was completed by walking parallel transects spaced approximately 30 to 50 feet apart, as directed by the TCEQ (2004) in the *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). Closer spacing was used where vegetation inhibited clear observation. SWCA scientists carefully examined all potential karst features, including depressions, holes, and animal burrows, for subsurface extent evidence. SWCA used several techniques for this effort, including probing with a digging implement to determine the thickness and consistency of fill material and feeling for air flow that could indicate the presence of a sub-surface void space. Other techniques included recording notable features and site characteristics, such as vegetation types or semi-circular burrow mounds produced by small mammal activity.

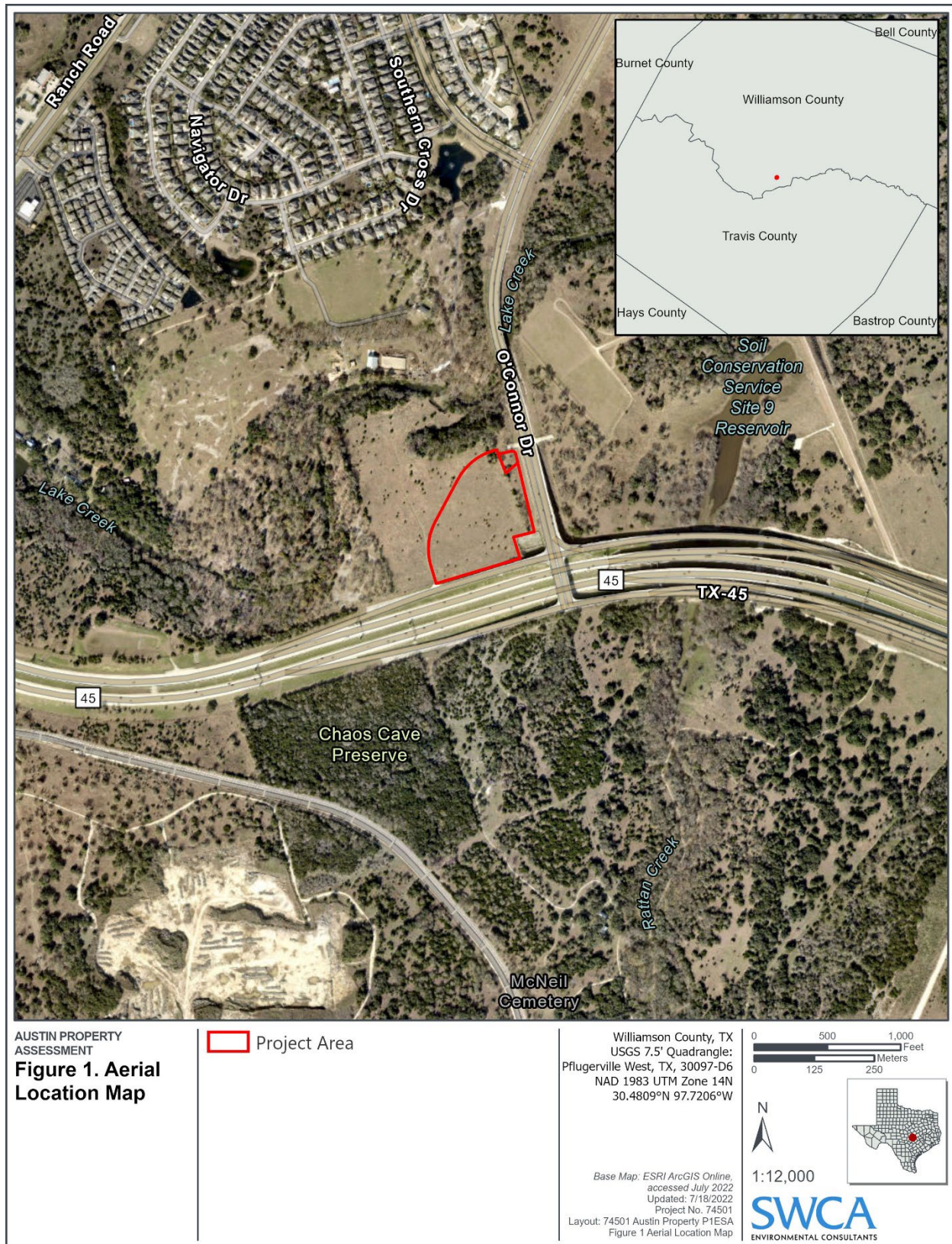


Figure 1. Project area location map.

3 RESULTS

3.1 Project Area Overview

The entire project area occurs within the Edwards Aquifer Recharge Zone (EARZ), which is in the northern segment of the Edwards Aquifer (TCEQ 2022). Topography within and surrounding the project area is generally flat with a gentle slope to the east towards O'Connor Drive. The elevation of the project area ranges from approximately 794 feet above mean sea level (amsl) at the western side of project area to 786 feet amsl near the project area's eastern extent.

The project area exists as mostly grassland with a few remaining trees that have regrown since the property was previously cleared. The closest aquatic resource to the project area is Lake Creek, located 375 feet north of the project area. Aside from the previous tree clearings, it appears that little vegetative manipulation has occurred in recent years.

3.2 Soils

The Natural Resources Conservation Service (2022) identified two soil units within the project area (Figure 2). Table 1 provides additional details for these soil units. Figure 2 depicts the location of these soil units.

Table 1. Soil Units within the Project Area

| Soil Unit | Hydric | Hydrologic Soil Group* | Drainage Class | Frequency of Flooding / Ponding | Depth to Water Table (inches) |
|--|--------|------------------------|----------------|---------------------------------|-------------------------------|
| CfB: Crawford clay, 1 to 3 percent slopes | No | D | Well Drained | None / None | 80+ |
| GsB: Georgetown stony clay loam, 1 to 3 percent slopes | No | D | Well Drained | None / None | 80+ |

Source: Natural Resources Conservation Service (2022).

* Group D – Soils had very slow infiltration rates when thoroughly wetted and exhibit the highest potential for runoff.

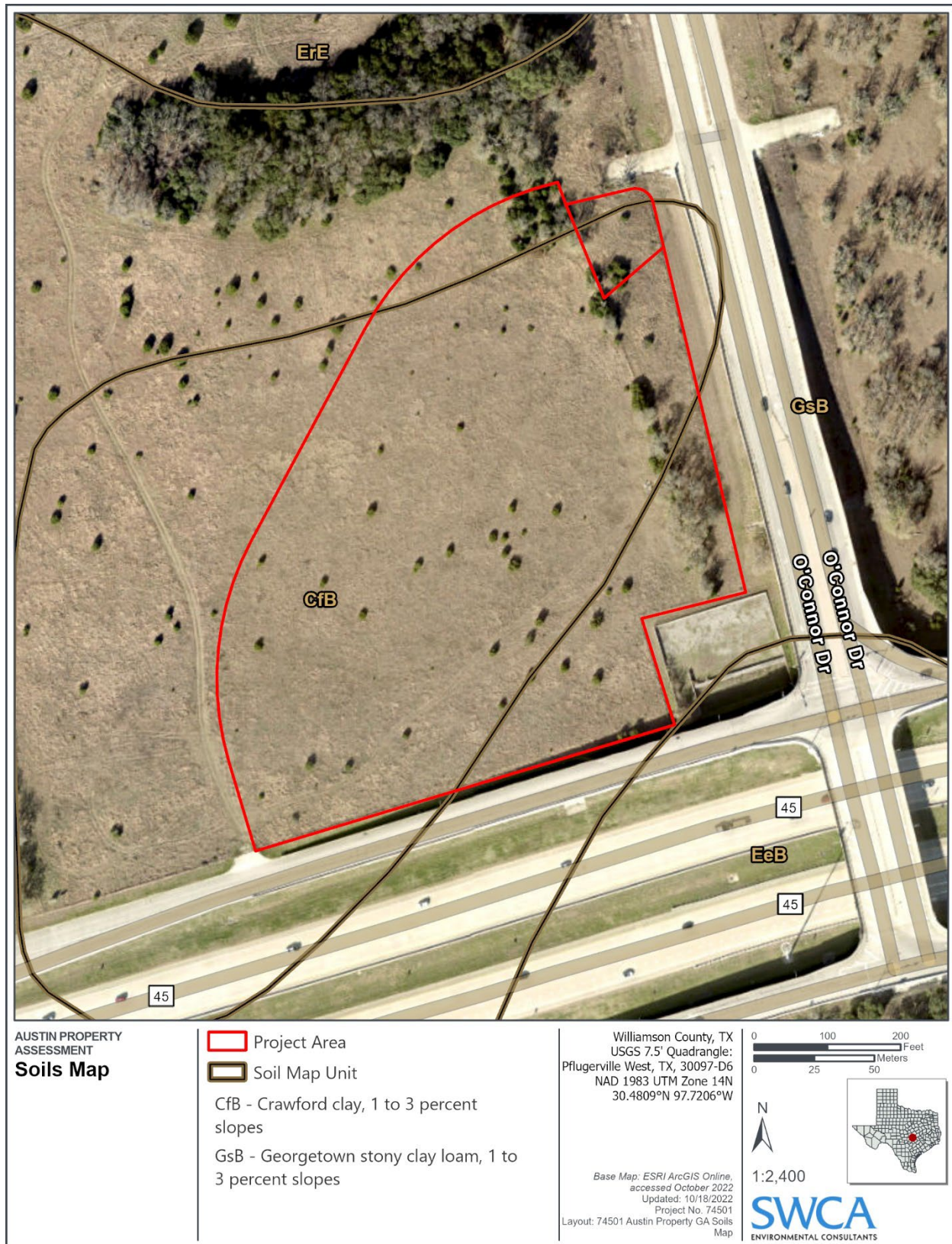


Figure 2. Soils map.

3.3 Geology

The project area occurs along the Balcones Fault Zone (BFZ) within the Edwards Aquifer EARZ (TCEQ 2022). Structural down-warping occurred with the Gulf of Mexico's ancestral formation during the middle Tertiary. The earth's crust was stretched in response, and the BFZ formed along a zone of weakness, which currently marks the boundary between the Edwards Plateau and the Gulf Coastal Plain in central Texas. The BFZ is characterized by a series of northeast-trending, predominantly normal, nearly vertical, en echelon faults.

As depicted in Figure 3, there are no mapped faults within the project area (Barnes 1974). The regional trend of the mapped faults within the area is approximately 35 degrees; therefore, any features within 15 degrees (20 to 50 degrees) will be awarded an additional 10 points on the geologic assessment table presented in Appendix A, Attachment A.

The Geologic Atlas of Texas: Austin Sheet (Barnes 1974) indicates the project area is underlain by Edwards Limestone (Ked) (Appendix A, Attachment D). SWCA finds Barnes et al (1974) interpretation of the geology to be generally accurate. The stratigraphic column is included in Appendix A, Attachment B. The following descriptions of these geological formations are from the Bureau of Economic Geology (Barnes 1974):

- **Edwards Limestone (Ked):** Limestone, dolomitic limestone, and marl, massive to thin beds, chert, and fossiliferous; fossils include rustids. Shallow subtidal-flat cycles. Honeycomb textures, voids in collapse breccias, and cavern systems. Accounts for most of the Edwards Aquifer strata. Thickness is between 100 and 300 feet; thins northward.

Recharge into the Edwards Aquifer primarily occurs in areas where the Edwards Group and Georgetown Formation are exposed at the surface. Most recharge is from direct infiltration via precipitation and streamflow loss. Recharge occurs predominantly along secondary porosity features such as faults, fractures, and karst features (caves, solution cavities, sinkholes, etc.). Karst features are commonly formed along joints, fractures, and within bedding plane surfaces in the Edwards Group and Georgetown Formation. Water that recharges the Edwards Aquifer in the vicinity of the project area commonly discharges in creeks near the contact between Edwards Limestone and underlying Comanche Peak Formation.

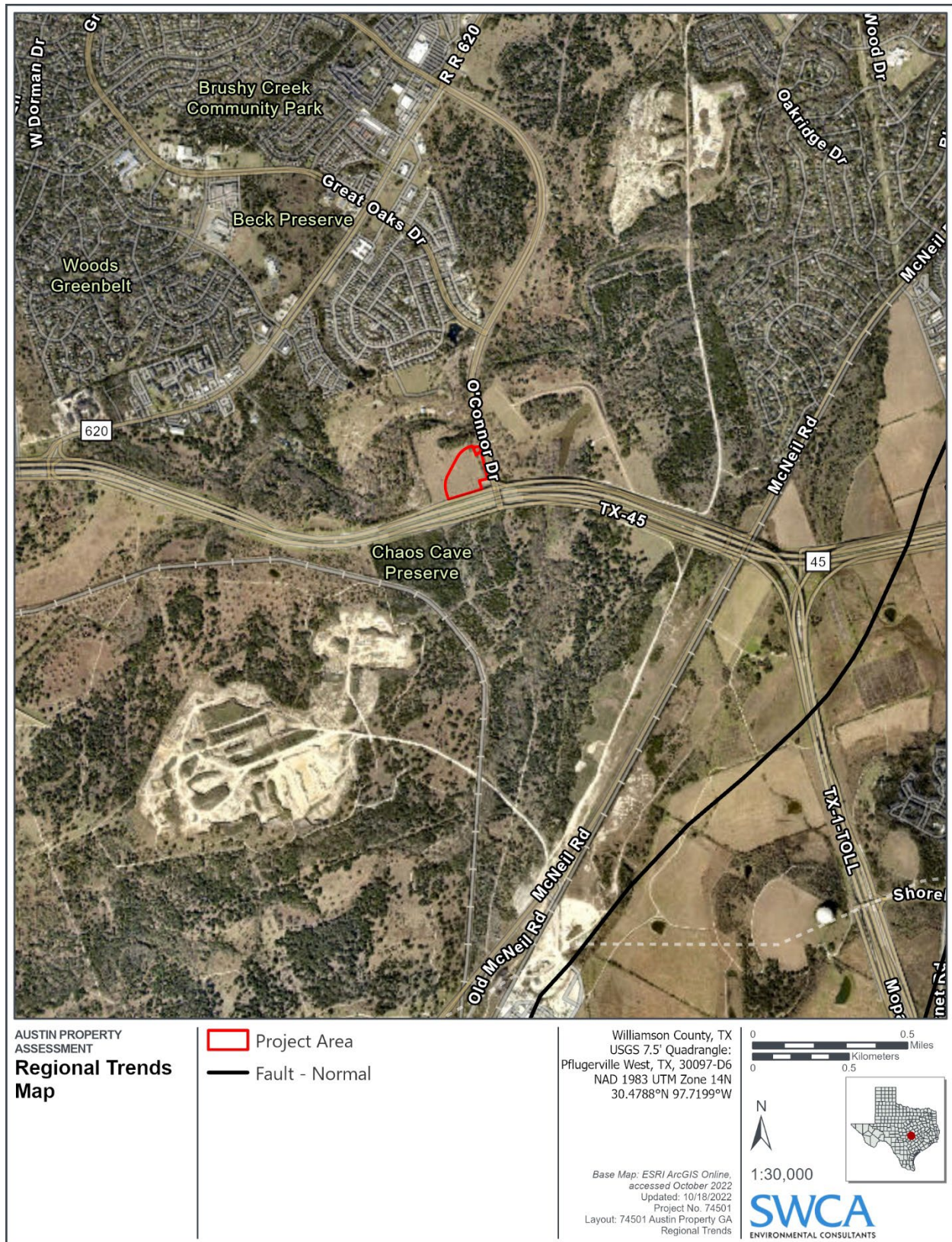


Figure 3. Regional trends map.

3.4 Hydrogeologic Assessment

SWCA did not observe any recharge or geologic features within the project area; therefore, the overall potential for fluid migration to the Edwards Aquifer within the project area appears relatively low compared to background infiltration rates. The depth to water approximately 0.62 mile south of the project area has been measured at 26.3 feet below ground surface in a nearby industrial well associated with Austin White Lime Co. (State ID No. 5835108) (Texas Water Development Board 2022). The gentle contours present on the property suggest runoff from rainfall reaching the undisturbed portions of the project area will continue downslope in the form of sheet flow until it is collected in manmade detention infrastructure adjacent to the project area to the southeast.

4 CONCLUSION

The geologic assessment on the approximate 10-acre CTT Headquarters Complex did not identify any geologic or manmade features within the project area. Additionally, there were no streams or springs identified within the project area.

5 LITERATURE CITED

- Barnes, V.E., Shell Oil Co., Humble Oil and Refining Co., Mobile Oil Co., C.V. Proctor, T.E. Brown, J.H. McGowen, N.B. Waechter, D.H. Eargle, E.T. Baker, R.C. Peckman, and R.L. Bluntzer. 1974. Geologic atlas of Texas, Austin sheet, University of Texas at Austin, Bureau of Economic Geology, Geologic Atlas of Texas 3, 1:250,000.
- Natural Resources Conservation Service (NRCS). 2022. Soil Survey Geographic (SSURGO) Database. Available at: <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>. Accessed September 2022
- SWCA Environmental Consultants (SWCA), Smith, Robertson, Elliott, Glen, Klein, & Bell, LLP, Prime Strategies, Inc., Texas Perspectives, Inc. 2008. *Williamson County Regional Habitat Conservation Plan*. Prepared for Williamson County Conservation Foundation and The Honorable Lisa Birkman.
- Texas Commission on Environmental Quality (TCEQ). 2004. *Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones* (Rev. 10-01-04). Austin, Texas. 34 pp.
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- Texas Water Development Board (TWDB). 2022. Groundwater data viewer. Available at: <https://www2.twdb.texas.gov/apps/WaterDataInteractive/GroundwaterDataViewer/?map=sdr>. Accessed September 2022.
- U.S. Geological Survey (USGS). 2022. Topographic map, 1:24000 series, for the Pflugerville West, Texas, quadrangle.

Attachment A

Geologic Assessment Table

Attachment B

Stratigraphic Column

Stratigraphic Column

| | | |
|------------------|-----------------------|--|
| Upper Cretaceous | Upper Confining Units | Navarro and Taylor Groups, undivided; 600 feet thick |
| | | Austin Group; 325–420 feet thick |
| | | Eagle Ford Group; 25–65 feet thick |
| | | Buda Limestone; 40–50 feet thick |
| | | Del Rio Clay; 40–70 feet thick |
| Lower Cretaceous | Edwards Aquifer | Georgetown Formation; 30–80 feet thick |
| | | Edwards Limestone; Up to 200 feet thick |
| | | Comanche Peak Formation; 80 feet thick |
| | Lower Confining Units | Walnut Formation; Up to 120 feet thick |
| | | Upper member of Glen Rose Limestone; 500 feet thick |

Note: The shaded area represents the lithology that outcrops in the project area.

Attachment C

Narrative Description of Site Geology

Refer to Section 3.3 of this report for the Geologic Narrative Description.

Attachment D

Site Geologic Maps



Figure D-1: Site Geologic Map

APPENDIX B

Photographic Log



Photograph B-1. Representative photograph of herbaceous vegetation within the project area.



Photograph B-2. Water quality pond directly adjacent to the southeast corner of the project area.



Photograph B-3. Representative photograph of trees and beehives within eastern portion of the project area.



Photograph B-4. Representative photograph of the northeast portion of the project area.

SECTION 4: WATER POLLUTION ABATEMENT PLAN

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: Nicholas Z. Lutz, P.E.

Date: February 26, 2024

Signature of Customer/Agent :



Regulated Entity Name: CTT Headquarters Complex

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): 9.66

3. Estimated projected population: ~100 employee office

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 | 37,106.48 | ÷ 43,560 = | 0.85 |
| Parking | 25,249.07 | ÷ 43,560 = | 0.58 |
| Other paved surfaces | 26,739.26 | ÷ 43,560 = | 0.61 |
| Total Impervious Cover | 89,094.81 | ÷ 43,560 = | 2.05 |

Total Impervious Cover 2.05 ÷ Total Acreage 9.66 X 100 = 21% 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>1,050</u> Gallons/day |
| <u> </u> % Industrial | <u> </u> Gallons/day |
| <u> </u> % Commingled | <u> </u> Gallons/day |
| TOTAL gallons/day <u> </u> | |

15. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

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

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

☐ The SCS was previously submitted on .

☐ The SCS was submitted with this application.

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

☐ The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ Proposed.

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = 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): _____

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

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

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

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

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

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

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

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

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

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

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

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

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

Administrative Information

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

Attachment A

Factors Affecting Water Quality

Materials that are anticipated to be used on site that could be a potential source of contamination include the following:

During Construction:

1. Concrete and Masonry Materials
2. Wood, plastic, and metal materials
3. Tar and hydrocarbons from paving operations
4. Oil, grease, fuel, and hydraulic fluid from construction equipment and vehicle drippings
5. Fertilizers, herbicides, and pesticides
6. Cleaning solutions and detergents
7. Miscellaneous construction trash and debris
8. Soil erosion and sedimentation due to construction activity

Ultimate Use:

1. Pollutants generated from vehicles utilizing the site
2. Fertilizers, herbicides, and pesticides used to maintain landscaping
3. Miscellaneous trash and debris generated from the public

(This is not intended to be an all-inclusive list)

All practical management practices will be used to reduce the risk of spills and other exposure of any contaminant to surface or groundwater.

Attachment B

Volume and Character of Storm Water

The proposed CTT Highway 45 project includes the construction of an office building and on-site infrastructure improvements to support the project. Proposed off-site improvements include the construction of a sidewalk along the ROW of the property. The impervious cover is restricted to a maximum of 65% and 21% is proposed.

Under existing conditions, stormwater runoff passing through the site flows towards O'Connor Drive. Approximately 9.66 acres flows to the southeast of the site to the headwall to an existing culvert beneath O'Connor Drive. Flow across the subject site is at slopes around 2%.

The southeast portion of this property is located in the City of Austin Fully Developed 100-year floodplain and within the Federal Emergency Management Agency's 100-year floodplain according to Flood Insurance Rate Map #48491C0630F effective 12/20/2019. None of the proposed development is within the 100-year floodplain. Under the proposed condition, the runoff to the downstream point of analyses will decrease. A detention pond will be provided on the southeast of the site. Stormwater runoff passing through the site will flow towards O'Connor Dr. to the existing culvert. Water will be treated according to TCEQ requirements through the on site partial sedimentation/filtration pond.

The subject site has no existing detention or water quality ponds. One water quality pond and one detention pond are proposed on-site. The Detention and Water Quality Structures are sized per current City of Austin and TCEQ design standards. Drainage area maps and calculations are included in the plan set for reference.

Regarding stormwater volume (quantity) of the stormwater runoff which is expected to occur from the proposed project, see table below depicting existing vs. proposed runoff volume. The runoff is being detained in the proposed detention pond to at or below existing condition runoff rates for the 2, 10, 25, and 100 year events.

| | Storm Event | Volume of Runoff (CF) |
|----------|-------------|-----------------------|
| EXISTING | 2 | 25.61 |
| | 10 | 48.91 |
| | 25 | 64.97 |
| | 100 | 91.77 |
| PROPOSED | 2 | 17.77 |
| | 10 | 34.91 |
| | 25 | 46.31 |
| | 100 | 64.63 |



Attachment C

Suitability Letter from Authorized Agent

July 17, 2024

RE: 15807 Crossroads Dr, Austin, TX 78717
S11974 – Gene Taylor Tract, Block A, Lot 4, Acres 9.656

The above referenced property is located within the Edwards Aquifer Recharge Zone.

Based on the surrounding subdivisions and the soil survey for Williamson County and planning material received, this office is able to determine that the soil and site conditions of this lot is suitable to allow the use of on-site sewage facilities (OSSF). It should be noted that this office has not actually studied the physical properties of this site. Site specific conditions such as OSSF setbacks, recharge features, drainage, soil conditions, etc..., will need taken into account in planning any OSSF.

These OSSF's will have to be designed by a professional engineer or a registered sanitarian. An Edwards Aquifer protection plan shall be approved by the appropriate TCEQ regional office before an authorization to construct an OSSF may be issued. The owner will be required to inform each prospective buyer, lessee or renter of the following in writing:

- That an authorization to construct shall be required before an OSSF can be constructed in the subdivision;
- That a notice of approval shall be required for the operation of an OSSF;
- Whether an application for a water pollution abatement plan as defined in Chapter 213 has been made, whether it has been approved and if any restrictions or conditions have been placed on the approval.

If this office can be of further assistance, please do not hesitate to call.

Sincerely,

Doug McPeters, OS 8626
Williamson County - OSSF



OS 8626

Attachment D

Exception to the Required Geologic Assessment

No sensitive geologic or manmade features were identified in the geologic assessment. Therefore, and exception to the Geologic Assessment Requirements will not be required.

SECTION 5: TEMPORARY STORMWATER

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: Nicholas Z. Lutz, P.E.

Date: February 26, 2024

Signature of Customer/Agent:



Regulated Entity Name: CTT Headquarters Complex

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: Rattan Creek Watershed

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

If there is an accidental spill on site, the contractor shall respond with appropriate action. The contractor will be required to contact the owner and in turn the owner will contact the TCEQ in the event of a spill on site. In addition to the following guidance, reference the latest version of TCEQ's Technical Guidance Manual (TGM) RG-348 Section 1.4.16.

Cleanup

- Clean up leaks and spills immediately.
- Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

- Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- Use absorbent materials on small spills rather than hosing down or burying the spill.
- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
 - Contain the spread of the spill.
 - Recover spilled materials.
 - Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

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

Spills should be cleaned up immediately:

- Contain spread of the spill.
- Notify the project foreman immediately.
- If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

- For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- Notification should first be made by telephone and followed up with a written report.
- The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- Other agencies which may need to be consulted include, but not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

Attachment B

Potential Sources of Contamination

Potential Source: Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle dripping.

Preventative Measures: Vehicle maintenance will be performed within the construction staging area or a local maintenance shop.

Potential Source: Miscellaneous trash and litter from construction workers and material wrappings.

Preventative Measures: Trash containers will be placed throughout the site to encourage proper disposal of trash.

Potential Source: Silt leaving the site.

Preventative Measures: Contractor will install all temporary best management practices prior to start of construction including the stabilized construction entrance to prevent tracking onto adjoining streets.

Potential Source: Construction Debris.

Preventative Measures: Construction debris will be monitored daily by contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case by case basis.

Potential Source: Soil and Mud from Construction Vehicle tires as they leave the site.

Preventative Measures: A stabilized construction exit shall be utilized as vehicles leave the site. Any soil, mud, etc. carried from the project onto public roads shall be cleaned up within 24 hours.

Potential Source: Sediment from soil, sand, gravel and excavated materials stock piled on site.

Preventative Measures: Silt fence shall be installed on the down gradient side of the stock piled materials. Reinforced rock berms shall be installed at all downstream discharge locations.

Potential Source: Portable toilet spill.

Preventative Measures: Toilets on the site will be emptied on a regular basis by the contracted toilet company.

Attachment C

Sequence of Major Activities

The installation of erosion and sedimentation controls shall occur prior to any excavation of materials or major disturbances on the site. The sequence of major construction activities will be as follows. Approximate acreage to be disturbed is listed in parentheses next to each activity.

Intended Schedule or Sequence of Major Activities:

1. Construct Access (0.05 Acres)
2. Installation of Temporary BMPs (9.66 Acres)
3. Initiate Grubbing and Topsoil Stripping of Site (5.00 Acres)
4. Rough Subgrade Preparation (earthwork, grading, street and drainage excavation and
5. embankment) (4.90 Acres)
6. Wet and Dry Utility Construction (9.66 Acres)
7. Final Subgrade Preparation (4.90 Acres)
8. Installation of Base Materials (1.15 Acres)
9. Concrete (foundations, curbs, flatwork) (1.0 Acres)
10. Building Construction (1.0 Acres)
11. Paving Activities (2.15 Acres)
12. Topsoil, Irrigation and Landscaping (2.75 Acres)
13. Site cleanup and Removal of Temporary BMPs (9.66 Acres)

Maximum total construction time is not expected to exceed 36 months.

Attachment D

Temporary Best Management Practices and Measures

- A. No storm water originates up gradient that impacts the site.
- B. Temporary BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed on site to reduce vehicle “tracking” onto adjoining streets. A concrete washout pit will be used to collect all excess concrete during construction.

BMPs for this project will protect surface water or groundwater from turbid water, phosphorus, sediment, oil, and other contaminants, which may mobilize in storm water flows by slowing the flow of runoff to allow sediment and suspended solids to settle out of the runoff.

Practices may also be implemented on site for interim and permanent stabilization. Stabilization practices may include but are not limited to: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation, and other similar measures.

- C. There are no sensitive features or surface streams within the boundaries of the project. The temporary onsite BMPs will be used to treat stormwater runoff before it leaves the project and prevent pollutants from entering into surface streams or any sensitive features down-gradient of the site.
- D. There were no sensitive features identified during the geologic assessment. However, the BMPs for this project are designed to allow water to pass through after sedimentation has occurred. Existing flow patterns will be maintained to any naturally-occurring sensitive features that are discovered during construction.



Attachment E

Request to Temporarily Seal a Feature

Naturally-occurring features will not be sealed on the site.

Attachment F***Structural Practices***

Structural BMPs will be used to limit runoff discharge of pollutants from exposed areas of the site. BMPs will be installed prior to soil disturbing construction activity. Silt fencing will be placed along the down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed at the site entry/exit point to reduce tracking onto adjoining streets. A construction staging area will be used onsite to perform all vehicle maintenance and for equipment and material storage. A concrete truck washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations. The location of all structural temporary BMP's are shown on the erosion control plan sheet and details and specifications are provided on the erosion control details sheet which can be found at the end of this report under Section 8.

Description of Temporary BMPs**Temporary Construction Entrance/Exit**

The purpose of a temporary gravel construction entrance is to provide a stable entrance/exit condition from the construction site and keep mud and sediment off public roads. A stabilized construction entrance is a stabilized pad of crushed stone located at any point traffic will be entering or leaving the construction site from a public right-of-way, street, alley, sidewalk or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking or flowing of sediment onto public rights-of-way. This practice should be used at all points of construction ingress and egress.

Excessive amounts of mud can also present a safety hazard to roadway users. To minimize the amount of sediment loss to nearby roads, access to the construction site should be limited to as few points as possible and vegetation around the perimeter should be protected where access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

Inspection and Maintenance Guidelines:

- (1) The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- (2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
- (3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
- (4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- (5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

Silt Fence

The purpose of a silt fence is to intercept and detain water-borne sediment from unprotected areas of a limited extent. Silt fence is used during the period of construction near the perimeter of a disturbed area to intercept sediment while allowing water to percolate through. This fence should remain in place until the disturbed area is permanently stabilized. Silt fence should not be used where there is a concentration of water in a channel or drainage way. If concentrated flow occurs after installation, corrective action must be taken such as placing a rock berm in the areas of concentrated flow.

Silt fencing within the site may be temporarily moved during the day to allow construction activity provided it is replaced and properly anchored to the ground at the end of the day. Silt fences on the perimeter of the site or around drainage ways should not be moved at any time.

Inspection and Maintenance Guidelines:

- (1) Inspect all fencing weekly, and after any rainfall.
- (2) Remove sediment when buildup reaches 6 inches.
- (3) Replace any torn fabric or install a second line of fencing parallel to the torn section. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles.
- (4) A triangular filter dike may be preferable to a silt fence at common vehicle access points.
- (5) When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

Concrete Washout Area

The purpose of concrete washout areas is to prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors.

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only.
- Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- For onsite washout:
 - Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
 - Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

Below grade concrete washout facilities are typical. These consist of a lined excavation sufficiently large to hold expected volume of washout material. Above grade facilities are used if excavation is not practical. Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this section, with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

Rock Berm

The purpose of a rock berm is to serve as a check dam in areas of concentrated flow, to intercept sediment-laden runoff, detain the sediment and release the water in sheet flow. The rock berm should be used when the contributing drainage area is less than 5 acres. Rock berms are used in areas where the volume of runoff is too great for a silt fence to contain. They are less effective for sediment removal than silt fences, particularly for fine particles, but are able to withstand higher flows than a silt fence. As such, rock berms are often used in areas of channel flows (ditches, gullies, etc.). Rock berms are most effective at reducing bed load in channels and should not be substituted for other erosion and sediment control measures further up the watershed.

Inlet Protection

Storm sewers that are made operational prior to stabilization of the associated drainage areas can convey large amounts of sediment to natural drainage ways. In case of extreme sediment loading, the storm sewer itself may clog and lose a major portion of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets. The following guidelines for inlet protection are based primarily on recommendations by the Virginia Dept. of Conservation and Recreation (1992) and the North Central Texas Council of Governments (NCTCOG, 1993b).

In developments for which drainage is to be conveyed by underground storm sewers (i.e., streets with curbs and gutters), all inlets that may receive storm runoff from disturbed areas should be protected. Temporary inlet protection is a series of different measures that provide protection against silt transport or accumulation in storm sewer systems. This clogging can greatly reduce or completely stop the flow in the pipes. The different measures are used for different site conditions and inlet types.

Care should be taken when choosing a specific type of inlet protection. Field experience has shown that inlet protection that causes excessive ponding in an area of high construction activity may become so inconvenient that it is removed or bypassed, thus transmitting sediment-laden flows unchecked. In such situations, a structure with an adequate overflow mechanism should be utilized.

It should also be noted that inlet protection devices are designed to be installed on construction sites and not on streets and roads open to the public. When used on public streets these devices will cause ponding of runoff, which can cause minor flooding and can present a traffic hazard. An example of appropriate siting would be a new subdivision where the storm drain system is installed before the area is stabilized and the streets open to the general public. When construction occurs adjacent to active streets, the sediment should be controlled on site and not on public thoroughfares. Occasionally, roadwork or utility installation will occur on public roads. In these cases, inlet protection is an appropriate temporary BMP.

The following inlet protection devices are for drainage areas of one acre or less. Runoff from larger disturbed areas should be routed to a temporary sediment trap or basin.

Filter barrier protection using silt fence is appropriate when the drainage area is less than one acre and the basin slope is less than five percent. This type of protection is not applicable in paved areas.

Block and gravel protection is used when flows exceed 0.5 cubic feet per second and it is necessary to allow for overtopping to prevent flooding. This form of protection is also useful for curb type inlets as it works well in paved areas.

Wire mesh and gravel protection is used when flows exceed 0.5 cubic feet per second and construction traffic may occur over the inlet. This form of protection may be used with both curb and drop inlets.

Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain inlet. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. If this measure is implemented, the impoundment should be sized

such that the volume of excavation is 3,600 cubic feet per acre (equivalent to 1 inch of runoff) of disturbed area entering the inlet.

Inspection and Maintenance Guidelines:

- (1) Inspection should be made weekly and after each rainfall. Repair or replacement should be made promptly as needed by the contractor.
- (2) Remove sediment when buildup reaches a depth of 3 inches. Removed sediment should be deposited in a suitable area and in such a manner that it will not erode.
- (3) Check placement of device to prevent gaps between device and curb.
- (4) Inspect filter fabric and patch or replace if torn or missing.
- (5) Structures should be removed and the area stabilized only after the remaining drainage area has been properly stabilized.

Attachment G

Drainage Area Map

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. An existing and proposed drainage area map is provided at the end of this report in Section 8 to support the aforementioned requirement.

Attachment H

Temporary Sediment Pond(s) Plans and Calculations

The proposed development will not disturb areas over 10 acres. Therefore, a temporary sediment pond is not proposed. Calculations and drainage area maps are located in the construction plans in the exhibits section of this report.

Attachment I

Inspection and Maintenance for BMPs

Personnel Responsible for Inspections

The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification. Documentation of the inspector's qualifications is to be included in the attached Inspector Qualifications Log.

Inspection Schedule

The primary operator is required to choose one of the two inspections listed below.

- Option 1: Once every seven calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.
- Option 2: Once every 14 calendar days and within 24 hours of the end of a storm event of two inches or greater.

The inspections may occur on either schedule provided that documentation reflects the current schedule and that any changes to the schedule are conducted in accordance with the following provisions: the schedule may be changed a maximum of one time each month, the schedule change must be implemented at the beginning of a calendar month, and the reason for the schedule change must be documented (e.g., end of “dry” season and beginning of “wet” season).

If option 2 is the chosen frequency of inspections a rain gauge must be properly maintained on site or the storm event information from a weather station that is representative of the site location. For any day of rainfall during normal business hours that measures 0.25 inches or greater, proper documentation of the total rainfall measured for that day must be recorded.

Personnel provided by the permittee must inspect:

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;
- structural controls (for evidence of, or the potential for, pollutant entering the drainage system);
- sediment and erosion control measures identified in the SWP3 (to ensure they are operating correctly); and
- locations where vehicles enter or exit the site (for evidence of off-site sediment tracking).

Reductions in Inspection Frequency

Where sites have been finally or temporarily stabilized or where runoff is unlikely due to winter

conditions (e.g. site is covered with snow, ice, or frozen ground exists), inspections must be conducted at least once every month. In arid, semi-arid, or drought-stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. A record of the total rainfall measured, as well as the approximate beginning and ending dates of winter or drought conditions resulting in monthly frequency of inspections in the attached Rain Gauge Log.

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

Inspection Report Forms

Use the Inspection Report Forms given as a checklist to ensure that all required areas of the construction site are addressed. There is space to document the inspector's name as well as when the inspections regularly take place. The tables will document that the required area was inspected. (If there were any areas of concern, briefly describe them in this space with a more detailed description in the narrative section. Use the last table to document any discharges found during the inspections).

Describe how effective the installed BMPs are performing. Describe any BMP failures that were noted during the investigation and describe any maintenance required due to the failure. If new BMPs are needed as the construction site changes, the inspector can use the space at the bottom of the section to list BMPs to be implemented before the next inspection.

Describe the inspector's qualifications, how the inspection was conducted, and describe any areas of non-compliance in detail. If an inspection report does not identify any incidents of non-compliance, then it must contain a certifying signature stating that the facility or site is in compliance. The report must be signed by a person and in a manner required by 30 TAC 305.128. There is space at the end of the form to allow for this certifying signature.

Whenever an inspection shows that BMP modifications are needed to better control pollutants in runoff, the changes must be completed within seven calendar days following the inspection. If existing BMPs are modified or if additional BMPs are needed, you must describe your implementation schedule, and wherever possible, make the required BMP changes before the next storm event.

The Inspection Report Form functions as the required report and must be signed in accordance with TCEQ rules at 30 TAC 305.128.

Corrective Action

Personnel Responsible for Corrective Actions

Both Primary and Secondary Operators are responsible for maintaining all necessary Corrective Actions. If an individual is specifically identified as the responsible party for modifying the contact information for that individual should be documented in the attached Inspector Qualifications Log.

Corrective Action Forms

The Temporary BMPs must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the attached forms and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. Actions taken as a result of inspections must be properly documented by completing the corrective action forms given.

Schedule of Interim and Permanent Soil Stabilization

Construction practices shall disturb the minimal amount of existing ground cover as required for land clearing, grading, and construction activity for the shortest amount of time possible to minimize the potential of erosion and sedimentation from the site. Existing vegetation shall be maintained and left in place until it is necessary to disturb for construction activity. For this project the following stabilization practices will be implemented:

1. Hydraulic Mulch and Seeding: Disturbed areas subject to erosion shall be stabilized with hydraulic mulch and/or seeded and watered to provide interim stabilization. For areas that are

not to be sodded as per the project landscaping plan, a minimum of 85% vegetative cover will be established to provide permanent stabilization.

2. Sodding and Wood Mulch: As per the project landscaping plan, Sodding and wood mulch will be applied to landscaped areas to provide permanent stabilization prior to project completion.

Records of the following shall be maintained:

- A. The dates when major grading activities occur;
- B. The dates when construction activities temporarily or permanently cease on a portion of the site; and
- C. The dates when stabilization measures are initiated.

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased:

Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

Where construction activity on a portion of the site is temporarily ceased and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of the site.

In arid areas (areas with an average rainfall of 0-10 inches), semiarid areas (areas with an average annual rainfall of 10 to 20 inches), and areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practical.

Maintenance

Below are some maintenance practices to be used to maintain erosion and sediment controls:

- All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
- BMP Maintenance (as applicable)
- Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Drainage swale will be inspected and repaired as necessary.
- Inlet control will be inspected and repaired as necessary.
- Check dam will be inspected and repaired as necessary.
- Straw bale dike will be inspected and repaired as necessary.
- Diversion dike will be inspected and any breached promptly repaired.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate off-site conveyance, then the permittee must work with the owner or operator of the property to remove the sediment.

- Locations where vehicles enter or exit the site must be inspected for evidence of off-site sediment tracking.

To maintain the above practices, the following will be performed:

- Maintenance and repairs will be conducted before the next anticipated storm event or as necessary to maintain the continued effectiveness of storm water controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.

Attachment J

Schedule of Interim and Permanent Soil Stabilization Practices

Inspector Qualifications Log*

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

Inspector Name: _____
Qualifications (Check as appropriate and provide description):
☐ Training Course _____
☐ Supervised Experience _____
☐ Other _____

** The agent that performs the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site. The contractor is to provide an inspector with a CPESC, CESSWI, or CISEC certification.*

Amendment Log

[illegible]

Construction Activity Sequence Log

| Name of Operator | Projected dates Month/year | Activity Disturbing Soil clearing, excavation, etc. | Location on-site where activity will be conducted | Acreage being disturbed |
|------------------|-------------------------------|---|---|-------------------------------|
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*Construction activity sequences for linear projects may be conducted on a rolling basis. As a result, construction activities may be at different stages at different locations in the project area. The Contractor is required to complete and update the schedule and adjust as necessary.

Stormwater Control Installation and Removal Log

[illegible]

Stabilization Activities Log

| Date Activity Initiated | Description of Activity | Description of Stabilization Measure and Location | Date Activity Ceased (Indicate Temporary or Permanent) | Date When Stabilization Measures Initiated |
|--------------------------------|--------------------------------|--|---|---|
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Stabilization and erosion control practices may include, but are not limited to: establishing temporary or permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, and protecting existing trees and vegetation. List practices used where they are located, when they will be implemented, and whether they are temporary (interim) or permanent.

Inspection Frequency Log

[illegible]

Rain Gauge Log

[illegible]

| General Information | | | | | |
|---|--|--|--------------|--|-----------------|
| Name of Project | | | Tracking No. | | Inspection Date |
| Inspector Name, Title & Contact Information | | | | | |
| Present Phase of Construction | | | | | |
| Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted) | | | | | |
| <p>Inspection Frequency</p> <p>Standard Frequency: <input type="checkbox"/> Weekly <input type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain</p> <p>Increased Frequency: <input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain</p> <p>Reduced Frequency:</p> <p>- <input type="checkbox"/> Once per month (for stabilized areas)</p> <p>- <input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought)</p> <p>- <input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted)</p> | | | | | |
| <p>Was this inspection triggered by a 0.25" storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, how did you determined whether a 0.25" storm event has occurred?</p> <p><input type="checkbox"/> Rain gauge on site <input type="checkbox"/> Weather station representative of site. Specify weather station source:</p> <p>Total rainfall amount that triggered the inspection (in inches):</p> | | | | | |
| <p>Unsafe Conditions for Inspection</p> <p>Did you determine that any portion of your site was unsafe for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If "yes", complete the following:</p> <p>- Describe the conditions that prevented you from conducting the inspection in this location:</p> <p>- Location(s) where conditions were found:</p> | | | | | |

| Condition and Effectiveness of Erosion and Sediment (E&S) Controls | | | | |
|--|--|--|--|-------|
| Type/Location of E&S Control | Repairs or Other Maintenance Needed? | Corrective Action Required? | Date on Which Maintenance or Corrective Action First Identified? | Notes |
| 1. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 6. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 7. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 8. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 9. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 10. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

| Condition and Effectiveness of Pollution Prevention (P2) Practices | | | | |
|--|--|--|---------------------|-------|
| Type/Location of P2 Practices | Repairs or Other Maintenance Needed? | Corrective Action Required? | Identification Date | Notes |
| 1. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 6. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 7. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 8. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 9. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 10. | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

| Stabilization of Exposed Soil | | | |
|--|--|---|-------|
| Stabilization Area | Stabilization Method | Have You Initiated Stabilization? | Notes |
| 1. | | <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date: | |
| 2. | | <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date: | |
| 3. | | <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date: | |
| 4. | | <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date: | |
| 5. | | <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date: | |
| Description of Discharges | | | |
| Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No If “yes”, provide the following information for each point of discharge: | | | |
| Discharge Location | Observations | | |
| 1. | Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | |
| 2. | Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | |
| 3. | Describe the discharge: At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: | | |

Contractor or Subcontractor Certification and Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____ **Date:** _____

Printed Name and Affiliation: _____

Certification and Signature by Permittee

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**Signature of Permittee or
"Duly Authorized Representative":** _____ **Date:** _____

Printed Name and Affiliation: _____

| Section A – Initial Report | | | | |
|--|-----------------|---|---|--------------|
| (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action) | | | | |
| Name of Project | | Tracking No. | | Today's Date |
| Date Problem First Discovered | | | Time Problem First Discovered | |
| Name and Contact Information of Individual Completing this Form | | | | |
| <p>What site conditions triggered the requirement to conduct corrective action:</p> <p><input type="checkbox"/> A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3</p> <p><input type="checkbox"/> The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards</p> <p><input type="checkbox"/> A prohibited discharge has occurred or is occurring</p> <p>Provide a description of the problem:</p> <p>Deadline for completing corrective action (<i>Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day</i>):</p> <p>If your estimated date of completion falls after the 7-day deadline, explain (1) why you believe it is infeasible to complete work within 7 days, and (2) why the date you have established for making the new or modified stormwater control operational is the soonest practicable timeframe:</p> | | | | |
| Section B – Corrective Action Progress | | | | |
| (Complete this section <u>no later than 7 calendar days</u> after discovering the condition that triggered corrective action) | | | | |
| Section B.1 – Why the Problem Occurred | | | | |
| Cause(s) of Problem (Add an additional sheet if necessary) | | | How This Was Determined and the Date You Determined the Cause | |
| 1. | | | 1. | |
| 2. | | | 2. | |
| 3. | | | 3. | |
| Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem | | | | |
| List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary) | Completion Date | SWPPP Update Necessary? | Notes | |
| 1. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |
| 2. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |
| 3. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |

| Section A – Initial Report | | | | |
|--|-----------------|---|---|--------------|
| (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action) | | | | |
| Name of Project | | Tracking No. | | Today's Date |
| Date Problem First Discovered | | | Time Problem First Discovered | |
| Name and Contact Information of Individual Completing this Form | | | | |
| <p>What site conditions triggered the requirement to conduct corrective action:</p> <p><input type="checkbox"/> A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3</p> <p><input type="checkbox"/> The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards</p> <p><input type="checkbox"/> A prohibited discharge has occurred or is occurring</p> <p>Provide a description of the problem:</p> <p>Deadline for completing corrective action (<i>Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day</i>):</p> <p>If your estimated date of completion falls after the 7-day deadline, explain (1) why you believe it is infeasible to complete work within 7 days, and (2) why the date you have established for making the new or modified stormwater control operational is the soonest practicable timeframe:</p> | | | | |
| Section B – Corrective Action Progress | | | | |
| (Complete this section <u>no later than 7 calendar days</u> after discovering the condition that triggered corrective action) | | | | |
| Section B.1 – Why the Problem Occurred | | | | |
| Cause(s) of Problem (Add an additional sheet if necessary) | | | How This Was Determined and the Date You Determined the Cause | |
| 1. | | | 1. | |
| 2. | | | 2. | |
| 3. | | | 3. | |
| Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem | | | | |
| List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary) | Completion Date | SWPPP Update Necessary? | Notes | |
| 1. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |
| 2. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |
| 3. | | <input type="checkbox"/> Yes <input type="checkbox"/> No Date: | | |

Contractor or Subcontractor Certification and Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____ **Date:** _____

Printed Name and Affiliation: _____

Certification and Signature by Permittee

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

**Signature of Permittee or
"Duly Authorized Representative":** _____ **Date:** _____

Printed Name and Affiliation: _____

SECTION 6: PERMANENT STORMWATER

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: Nicholas Z. Lutz, P.E.

Date: February 26, 2024

Signature of Customer/Agent



Regulated Entity Name: CTT Headquarters Complex

Permanent Best Management Practices (BMPs)

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

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
2. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

- ☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____
- ☐ N/A
3. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
- ☐ N/A
4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
- ☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
- ☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
- ☒ The site will not be used for low density single-family residential development.
5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
- ☐ Attachment A - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.
6. ☒ Attachment B - BMPs for Upgradient Stormwater.

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

11. ☒ Attachment G - Inspection, Maintenance, Repair and Retrofit Plan. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:
- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
 - ☒ Signed by the owner or responsible party
 - ☒ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
 - ☒ A discussion of record keeping procedures
- ☐ N/A
12. ☐ Attachment H - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.
- ☒ N/A
13. ☐ Attachment I - Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.
- ☒ N/A

Responsibility for Maintenance of Permanent BMP(s)

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

14. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- ☐ N/A
15. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☐ N/A

Attachment A

20% or Less Impervious Cover Waiver

The site will not be used for multi-family residential developments, schools, or small business sites and has more than 20% impervious cover. Therefore, a waiver will not be submitted for this project.

Attachment B

BMPs for Upgradient Storm Water

No up-gradient storm water is currently anticipated. The proposed roadway with roadside ditch will capture the up-gradient storm water and will be conveyed to a separate public water quality pond at the northeast corner of the site as proposed by a separate development.

Attachment C

BMPs for On-Site Stormwater

A partial sedimentation/filtration pond will be utilized as the permanent BMPs on this site and will be designed based off of City of Austin water quality standards. All stormwater runoff from impervious areas will be collected by an underground storm sewer system and routed through the water quality pond to provide the required overall removal of 87% of the increase in Total Suspended Solids.

The subject site will convey runoff to an underground storm pipe system, directing all storm water runoff to a detention and water quality pond. Runoff will be released from the detention pond to a culvert beneath O'Connor at rates below existing conditions per the storm event. Drainage area maps are included in the plan set and calculations are included in Appendix A for reference. Drainage area PR-1, which includes the proposed building and parking area, will be routed to the water quality and detention ponds before outfalling to a 36" culvert that drains to Point of Analysis A. The drainage area PR-2 is within the FEMA 500-yr floodplain, so this area bypasses the site's water quality and detention systems so as to not interrupt the floodplain. The watershed here will reach Point of Analysis A through surface runoff due to the existing topography. The proposed development reduces the existing flows to this point of analysis.

Construction plans, calculations and specifications are provided in Section 8 which is located at the end of this report.

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

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

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

 L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

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

| | | |
|--|-------------------|--------|
| County = | Williamson | |
| Total project area included in plan * | 9.66 | acres |
| Predevelopment impervious area within the limits of the plan * | 0.00 | acres |
| Total post-development impervious area within the limits of the plan * | 2.09 | acres |
| Total post-development impervious cover fraction * | 0.22 | |
| P = | 32 | inches |

 L_M TOTAL PROJECT = **1819** 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 = | 4.86 | acres |
| Predevelopment impervious area within drainage basin/outfall area = | 0.00 | acres |
| Post-development impervious area within drainage basin/outfall area = | 2.09 | acres |
| Post-development impervious fraction within drainage basin/outfall area = | 0.43 | |
| L_M THIS BASIN = | 1819 | lbs. |

3. Indicate the proposed BMP Code for this basin.Proposed BMP = **Sand Filter**
Removal efficiency = **89** percent

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

4. Calculate Maximum TSS Load Removed (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 = | 4.86 | acres |
| A_i = | 2.09 | acres |
| A_p = | 2.77 | acres |
| L_R = | 2102 | lbs |

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall areaDesired L_M THIS BASIN = **1871** lbs.F = **0.89****6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.**

Calculations from RG-348

Pages 3-34 to 3-36

| | | |
|---------------------------------------|-------------|------------|
| Rainfall Depth = | 1.60 | inches |
| Post Development Runoff Coefficient = | 0.32 | |
| On-site Water Quality Volume = | 9073 | 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 = **1815**Total Capture Volume (required water quality volume(s) $\times 1.20$) = **10887** cubic feetThe 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 = 10887 cubic feet

Minimum filter basin area = 504 square feet

Maximum sedimentation basin area = 4536 square feet

Minimum sedimentation basin area = 1134 square feet For minimum water depth of 2 feet
For maximum water depth of 8 feet**9B. Partial Sedimentation and Filtration System**

Water Quality Volume for combined basins = 10887 cubic feet

Minimum filter basin area = 907 square feet

Maximum sedimentation basin area = 3629 square feet

Minimum sedimentation basin area = 227 square feet For minimum water depth of 2 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

Required capacity at WQV Elevation = NA cubic feet

Permanent Pool Capacity is 1.20 times the WQV
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**14. Stormwater Management StormFilter® by CONTECH**

Required Water Quality Volume for Contech StormFilter System = NA cubic feet

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES**15. Grassy Swales**

Designed as Required in RG-348

Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A = 8.00 acres
Impervious Cover in Drainage Area = 4.00 acres
Rainfall intensity = i = 1.1 in/hr
Swale Slope = 0.01 ft/ft
Side Slope (z) = 3
Design Water Depth = y = 0.33 ft
Weighted Runoff Coefficient = C = 0.54

A_{CS} = cross-sectional area of flow in Swale = 13.17 sf
P_w = Wetted Perimeter = 40.62 feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_w = 0.32 feet
n = Manning's roughness coefficient = 0.2

15A. Using the Method Described in the RG-348Manning's Equation: $Q = \frac{1.49}{n} A_{CS} R_H^{2/3} S^{0.5}$ $b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} - zy = 38.51$ feet

Q = CIA = 4.71 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.36 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 107.24 feet



Appendix R-3

Partial Sedimentation/Filtration Pond Calculations for Development Permits

Drainage Area Data:

WATER QUALITY POND

| | | |
|--|----------|---------|
| Drainage Area to Control (DA) | 4.86 AC. | |
| Drainage Area Percent Impervious Cover | 2.09 AC. | 43.00 % |
| Capture Depth (CD) | 0.73 IN. | |

Water Quality Control Calculations:

Required

Provided

The Water Quality Control is to be Partial Sedimentation Filtration

| | | |
|--|----------------------|--------------|
| 25 Year Peak Flow Rate to Control (Q25) | 42.32 CFS | |
| 100 Year Peak Flow Rate to Control (Q100) | 57.04 CFS | |
| Water Quality Volume (WQV=CD*DA*3630) | 12,879 CF | 13,936 CF |
| Maximum Ponded Depth Above Sand Bed (H) | | 3.60 FT |
| Sedimentation Pond Area | | 913 SF |
| Sedimentation Pond Volume (Min. 20% of WQV) | 2,576 CF | 4,590 CF |
| Filtration Pond Area (WQV/(4+1.33*H)) | 1,465 SF | 1,649 SF |
| Filtration Pond Volume | | 9,345 CF |
| Water Quality Elevation | | 789.5 FT MSL |
| Elevation of Splitter/Overflow Weir | Minimum WQ Elevation | 789.5 FT MSL |
| Height of Gabion Wall | WQ Elevation-0.5 FT | 789.0 FT MSL |
| Length of Splitter Weir | | 25.0 FT |
| Required Head to Pass Q100 | Max. 1.0 FT | 0.83 FT |
| Pond Freeboard Provided to Pass Q100 | Min. 0.25 FT | 1.00 FT |
| 48 Hour Drawdown Time Orifice Opening Diameter | | 1.46 IN |

Sedimentation Pond:

| Stage (FT MSL) | Depth (FT) | Area (SF) | Storage (CF) | Storage Cumm. (CF) |
|-------------------|---------------|--------------|-----------------|-----------------------|
| 786.00 | 0.00 | 913.01 | 0.00 | 0.00 |
| 786.77 | 0.77 | 1092.94 | 386.15 | 386.15 |
| 787.00 | 1.00 | 1162.69 | 259.40 | 645.54 |
| 788.00 | 2.00 | 1483.45 | 1323.07 | 1968.61 |
| 789.00 | 3.00 | 1832.49 | 1657.97 | 3626.58 |
| 789.50 | 3.50 | 2022.14 | 963.66 | 4590.24 |

Filtration Pond:

| Stage (FT MSL) | Depth (FT) | Area (SF) | Storage (CF) | Storage Cumm. (CF) |
|-------------------|---------------|--------------|-----------------|-----------------------|
| 785.90 | 0.00 | 1648.70 | 0.00 | 0.00 |
| 786.00 | 0.10 | 1695.26 | 167.20 | 167.20 |
| 787.00 | 1.10 | 2202.56 | 1948.91 | 2116.11 |
| 788.00 | 2.10 | 2742.49 | 2472.53 | 4588.63 |
| 789.00 | 3.10 | 3310.68 | 3026.59 | 7615.22 |
| 789.50 | 3.60 | 3609.90 | 1730.15 | 9345.36 |

Attachment D

BMPs for Surface Streams

There are no existing surface streams or sensitive features on site. All permanent BMP's have been designed to remove 87% of the increase in Total Suspended Solids as per current TCEQ and City of Austin requirements.

Attachment E

Request To Seal a Feature

The permanent sealing of or diversion of flow from a naturally occurring “sensitive” or “possibly sensitive” feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed for any naturally-occurring “sensitive” or “possibly sensitive” features on this site.

Attachment F

Construction Plans

Calculations for the load removal requirements for the project and the load removal provided by the permanent BMP's are provided as an exhibit in section 8 which have preliminary approval by a professional engineer licensed in the state of Texas. The load removal requirements are derived from the equations from the technical guidance manual based upon project area and increase in impervious cover. All stormwater runoff from impervious areas will be treated by the proposed permanent BMP's to provide the overall required removal of 87% of the increase in Total Suspended Solids. Provided within the calculations is a summary of the amount of pollutant load required to be removed from the drainage areas and the amount of removal provided by the permanent BMP's.

Construction plans, details, specifications, calculations, and construction notes are provided in section 8 which is attached at the end of this report.

Attachment G

Inspection, Maintenance, Repair and Retrofit Plan

The inspection and maintenance plan outlines the procedures necessary to maintain the performance of the Permanent Best Management Practices for this project. It should be noted that the plan provides guidelines that may have to be adjusted dependent on site specific and weather-related conditions.

It is the responsibility of the owner to provide the inspections and maintenance as outlined in the plan for the duration of the project. The owner will maintain this responsibility until it is assumed or transferred to another entity in writing. If the property is leased or sold, the responsibility for the maintenance will be required to be transferred through the lease agreement, binding covenants, closing documents, or other binding legal instrument.



Disposal of accumulated silt shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Maintenance records shall be kept on the installation, maintenance, or removal of items necessary for the proper operation of the facilities. All inspections shall be documented.

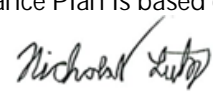
An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party: Cross Texas Transmission, LLC
Mailing Address: 1122 S Capital of Texas Hwy #Ste 100
City, State: Austin, TX Zip: 78746
Telephone: (806) 204-0071 Fax: N/A

I, the owner, have read and understand the requirements of the attached Inspection and Maintenance Plan for the proposed Permanent Best Management Practices for my project. I acknowledge that I will maintain responsibility for the implementation and execution of the plan until the responsibility is transferred to or assumed by another party in writing through a binding legal instrument.

Signature of Responsible Party  Date 5 March 2024 

This Maintenance Plan is based on TCEQ Maintenance Guidelines.

By:  Date 02/26/2024
Nicholas Z. Lutz, P.E.

Inspection and Maintenance for BMPs

SAND FILTER SYSTEM

- **Inspections.** The BMP facilities must be inspected semi-annually (once during or immediately after wet weather) and repairs should be made if necessary.
- **Sediment Removal.** Remove sediment from inlet structure and sedimentation chamber at least annually, or when depth reaches 6 inches, or proper functioning is impaired; remove sediment from basin at least every 5 years.
- **Media Replacement.** More extensive maintenance of the filter media is required when the draw-down time begins to exceed the target time of 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 within the top 2 to 3 inches.
- **Debris and Litter Removal.** Accumulated paper, trash and debris should be removed during regular mowing operations and inspections, or as necessary.
- **Filter Underdrain.** Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time.
- **Mowing.** Grass areas in and around basins 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. When mowing is performed, a mulching mower should be used, or grass clippings should be caught and removed.
- **Disposal of accumulated silt** shall be accomplished following Texas Commission on Environmental Quality guidelines and specifications.

Attachment H

Pilot-Scale Field Testing Plan

The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site; therefore pilot-scale field testing is not required.

Attachment I

Measures for Minimizing Surface Stream Contamination

Surface streams do not exist on site. Therefore, 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 not provided at the end of this form. All disturbed areas will be re-vegetated as soon as practical.

SECTION 7: ADDITIONAL FORMS

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

I Eric Schroeder,
Print Name
Vice President,
Title - Owner/President/Other
of Cross Texas Transmission, LLC,
Corporation/Partnership/Entity Name
have authorized Nicholas Z. Lutz, P.E.
Print Name of Agent/Engineer
of Kimley-Horn and Associates, Inc.
Print Name of Firm

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

I also understand that:

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



SIGNATURE PAGE:

J. B. Smith
Applicant's Signature

5 March 2024
Date

THE STATE OF _____ §

County of _____ §

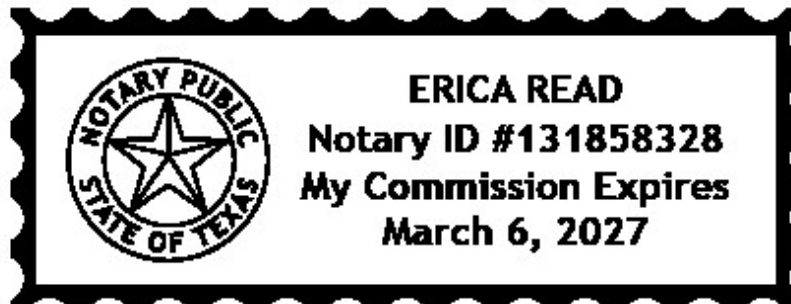
BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this ____ day of _____, ____.

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _____



Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CTT Headquarters Complex

Regulated Entity Location: Northwest corner of State Highway 45 and O'Connor Dr., Ausin, TX

Name of Customer: Cross Texas Transmission, LLC

Contact Person: Eric Schroeder

Phone: (806) 204-0071

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

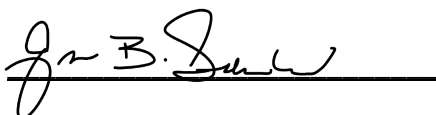
☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

| <i>Type of Plan</i> | <i>Size</i> | <i>Fee Due</i> |
|---|-------------|----------------|
| Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential | 9.66 Acres | \$ 5,000 |
| 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: _____



Date: 5 March 2024

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 |



Check Payable to the "Texas Commission on Environmental Quality"



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

SECTION II: Customer Information

| | | | | | |
|---|--|---|--|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA). | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | If new Customer, enter previous Customer below: | |
| Cross Texas Transmission LLC | | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 801033949 | | 3-20-3803946-0 | | 26-2511978 | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LLC | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input type="checkbox"/> 0-20 <input checked="" type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | 1122 S Capital of Texas Hwy #Ste 100 | | | |
| | | | | | |
| City | | Austin | | State | TX |
| ZIP | | 78746 | | ZIP + 4 | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | | |
| 18. Telephone Number | | 19. Extension or Code | | 20. Fax Number (if applicable) | |
| | | | | | |

| | | |
|-----------|--|-----------|
| () - | | () - |
|-----------|--|-----------|

SECTION III: Regulated Entity Information

| | | | | | | | | |
|---|---------------------|--------|-------|----|-----|-------|---------|--|
| 21. General Regulated Entity Information <i>(If 'New Regulated Entity' is selected, a new permit application is also required.)</i> | | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information | | | | | | | | |
| <i>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).</i> | | | | | | | | |
| 22. Regulated Entity Name <i>(Enter name of the site where the regulated action is taking place.)</i> | | | | | | | | |
| CTT Headquarters Complex | | | | | | | | |
| 23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i> | 15807 Crossroads Dr | | | | | | | |
| | | | | | | | | |
| | City | Austin | State | TX | ZIP | 78717 | ZIP + 4 | |
| 24. County | Williamson | | | | | | | |

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

| | | | | | | | | |
|--|---|--------------------------------------|-----------------------|---|-------------------------------|---|------------------|--|
| 25. Description to Physical Location: | NW Corner of O'Connor Drive and Texas 45 Intersection | | | | | | | |
| 26. Nearest City | | | | | | State | Nearest ZIP Code | |
| Austin | | | | | | Texas | 78717 | |
| <i>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).</i> | | | | | | | | |
| 27. Latitude (N) In Decimal: | | 30.481634 | | | 28. Longitude (W) In Decimal: | | -97.720751 | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | | |
| | | | | | | | | |
| 29. Primary SIC Code (4 digits) | | 30. Secondary SIC Code (4 digits) | | 31. Primary NAICS Code (5 or 6 digits) | | 32. Secondary NAICS Code (5 or 6 digits) | | |
| 4911 | | | | 221121 | | | | |
| 33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i> | | | | | | | | |
| | | | | | | | | |
| 34. Mailing Address: | 1122 S Capital or Texas Hwy #Ste 100 | | | | | | | |
| | | | | | | | | |
| | City | Austin | State | TX | ZIP | 78746 | ZIP + 4 | |
| 35. E-Mail Address: | | | | | | | | |
| 36. Telephone Number | | | 37. Extension or Code | | | 38. Fax Number <i>(if applicable)</i> | | |
| () - | | | | | | () - | | |

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

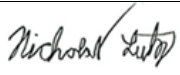
| | | | | |
|--|--|---|--|---|
| <input type="checkbox"/> Dam Safety | <input type="checkbox"/> Districts | <input type="checkbox"/> Edwards Aquifer | <input type="checkbox"/> Emissions Inventory Air | <input type="checkbox"/> Industrial Hazardous Waste |
| | | | | |
| <input type="checkbox"/> Municipal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

SECTION IV: Preparer Information

| | | | | | |
|----------------------|------------------------|----------------|---------------------------|------------|-----------------|
| 40. Name: | Nicholas Z. Lutz, P.E. | | | 41. Title: | Project Manager |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address | | |
| (512) 418-1771 | N/A | () - | nick.lutz@kimley-horn.com | | |

SECTION V: Authorized Signature

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

| | | | | | |
|------------------|---|--|------------|-----------------|-----------------|
| Company: | Kimley-Horn and Associates, Inc. | | Job Title: | Project Manager | |
| Name (In Print): | Nicholas Z. Lutz, P.E. | | | Phone: | (512) 418- 1771 |
| Signature: |  | | | Date: | 2/26/2024 |

SECTION 8: EXHIBITS

Plotted By: Hudson, Audrey Date: February 26, 2024 05:44:12pm File Path: K:\Users\civil\064421404 - ctt highway 45\Cad\plan sheets\C - Final Plat.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

GENE TAYLOR TRACT

A DESCRIPTION OF 32.454 ACRES IN THE MALCOLM M. HORNSBY SURVEY NO. 69, ABSTRACT NO. 281 IN WILLIAMSON COUNTY, TEXAS, BEING A PORTION OF A 52.591 ACRE TRACT CONVEYED TO LEWIS WOODS, LLC IN A SPECIAL WARRANTY DEED WITH VENDOR'S LIEN DATED JANUARY 15, 2015 AND RECORDED IN DOCUMENT NO. 2015004536 AND ALL OF A 2.390 ACRE TRACT CONVEYED TO LEWIS WOODS, LLC IN A SPECIAL WARRANTY DEED DATED MAY 17, 2018 AND RECORDED IN DOCUMENT NO. 2018042807, BOTH OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; SAID 32.454 ACRES BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING A 1/2" rebar with aluminum cap found at the intersection of the north line of State Highway 45 (right-of-way width varies) as described in Document No. 2002062055, 2002028789 and 2003027707 of the Official Public Records of Williamson County, Texas and the east line of a 53.8258 acre tract described in Volume 2273, Page 641 of the Deed Records of Williamson County, Texas, for the southwest corner of said 52.591 Acre Tract and the herein described tract;

THENCE with the west line of the said 52.591 Acre Tract and the east line of the said 53.8258 Acre Tract, the following three (3) courses and distances:

1. North 20°52'44" West, a distance of 459.95 feet to a 1/2" rebar with "Chaparral" cap set;

2. North 20°49'38" West, a distance of 626.45 feet to a 1/2" rebar with "Chaparral" cap set;

3. North 21°20'10" West, a distance of 335.99 feet to an inundated/calculated point in the centerline of Lake Creek at the southwest corner of a 22.526 acre tract described in Document No. 2015004532 of the Official Public Records of Williamson County, Texas, for the northwest corner of the herein described tract;

THENCE over and across said 52.591 Acre Tract, with the centerline of Lake Creek, same being the south line of said 22.526 Acre Tract, the following twenty-eight (28) courses and distances:

1. North 51°33'41" East, a distance of 38.11 feet to an inundated/calculated point;

2. North 47°12'47" East, a distance of 34.01 feet to an inundated/calculated point;

3. North 64°48'53" East, a distance of 39.04 feet to an inundated/calculated point;

4. North 78°51'50" East, a distance of 153.90 feet to an inundated/calculated point;

5. North 66°19'59" East, a distance of 27.32 feet to an inundated/calculated point;

6. North 82°30'05" East, a distance of 99.30 feet to an inundated/calculated point;

7. South 88°03'52" East, a distance of 63.58 feet to an inundated/calculated point;

8. North 87°03'28" East, a distance of 68.50 feet to an inundated/calculated point;

9. South 81°08'49" East, a distance of 68.81 feet to an inundated/calculated point;

10. South 77°06'28" East, a distance of 65.69 feet to an inundated/calculated point;

11. South 83°33'17" East, a distance of 119.30 feet to an inundated/calculated point;

12. South 00°04'23" West, a distance of 77.24 feet to an inundated/calculated point;

13. South 47°28'10" East, a distance of 30.55 feet to an inundated/calculated point;

14. South 57°49'31" East, a distance of 29.97 feet to an inundated/calculated point;

15. South 37°29'52" East, a distance of 20.73 feet to an inundated/calculated point;

16. South 76°46'23" East, a distance of 27.53 feet to an inundated/calculated point;

17. North 51°00'17" East, a distance of 27.21 feet to an inundated/calculated point;

18. North 16°08'19" East, a distance of 49.56 feet to an inundated/calculated point;

19. North 24°48'59" East, a distance of 24.87 feet to an inundated/calculated point;

20. North 76°48'41" East, a distance of 19.57 feet to an inundated/calculated point;

21. South 72°42'28" East, a distance of 17.57 feet to an inundated/calculated point;

22. South 39°32'39" East, a distance of 22.01 feet to an inundated/calculated point;

23. South 31°22'53" East, a distance of 21.27 feet to an inundated/calculated point;

24. South 66°01'31" East, a distance of 24.83 feet to an inundated/calculated point;

25. South 72°21'11" East, a distance of 29.43 feet to an inundated/calculated point;

26. North 88°25'03" East, a distance of 26.38 feet to an inundated/calculated point;

27. North 72°25'21" East, a distance of 29.98 feet to an inundated/calculated point;

28. North 49°20'14" East, a distance of 30.57 feet to an inundated/calculated point at the northwest corner of said 2.390 Acre Tract, same being the southeast corner of said 22.526 Acre Tract;

THENCE North 49°20'13" East, continuing with the centerline of Lake Creek, same being the north line of said 2.390 Acre Tract a distance of 179.90 feet to an inundated/calculated point in the west right-of-way line of S O Connor Drive (200' right-of-way width) as described in Document No. 2012070859 of the Official Public Records of Williamson County, Texas, for the northeast corner of said 2.390 Acre Tract and the herein described tract;

THENCE South 14°04'17" East, with the west right-of-way line of S O Connor Drive and the east line of said 2.390 Acre Tract, a distance of 1031.75 feet to a 1/2" rebar with "Chaparral" cap found at the intersection of the north right-of-way line of said State Highway 45 and the west right-of-way line of said S O Connor Drive, for the southeast corner of said 2.390 Acre Tract and the herein described tract;

THENCE South 75°12'25" West with the north right-of-way line of said State Highway 45 and the south line of said 2.390 Acre Tract, a distance of 43.21 feet to a 1/2" rebar with "Chaparral" cap found at the common south corner of said 2.390 Acre Tract and said 52.591 Acre Tract;

THENCE continuing with the north right-of-way line of State Highway 45 and the south line of said 52.591 Acre Tract, the following four (4) courses and distances:

1. South 75°12'25" West, a distance of 103.34 feet to a TxDot type II disk found;

2. South 17°52'50" East, a distance of 152.04 feet to a 1/2" rebar with "Chaparral" cap set;

3. With a curve to the left, having a radius of 4386.39 feet, a delta angle of 0°00'53", an arc length of 1.12 feet, and a chord which bears South 72°33'28" West, a distance of 1.12 feet to a TxDot type II disk found;

4. South 72°33'49" West, a distance of 892.84 feet to the POINT OF BEGINNING, containing 32.454 acres of land, more or less.

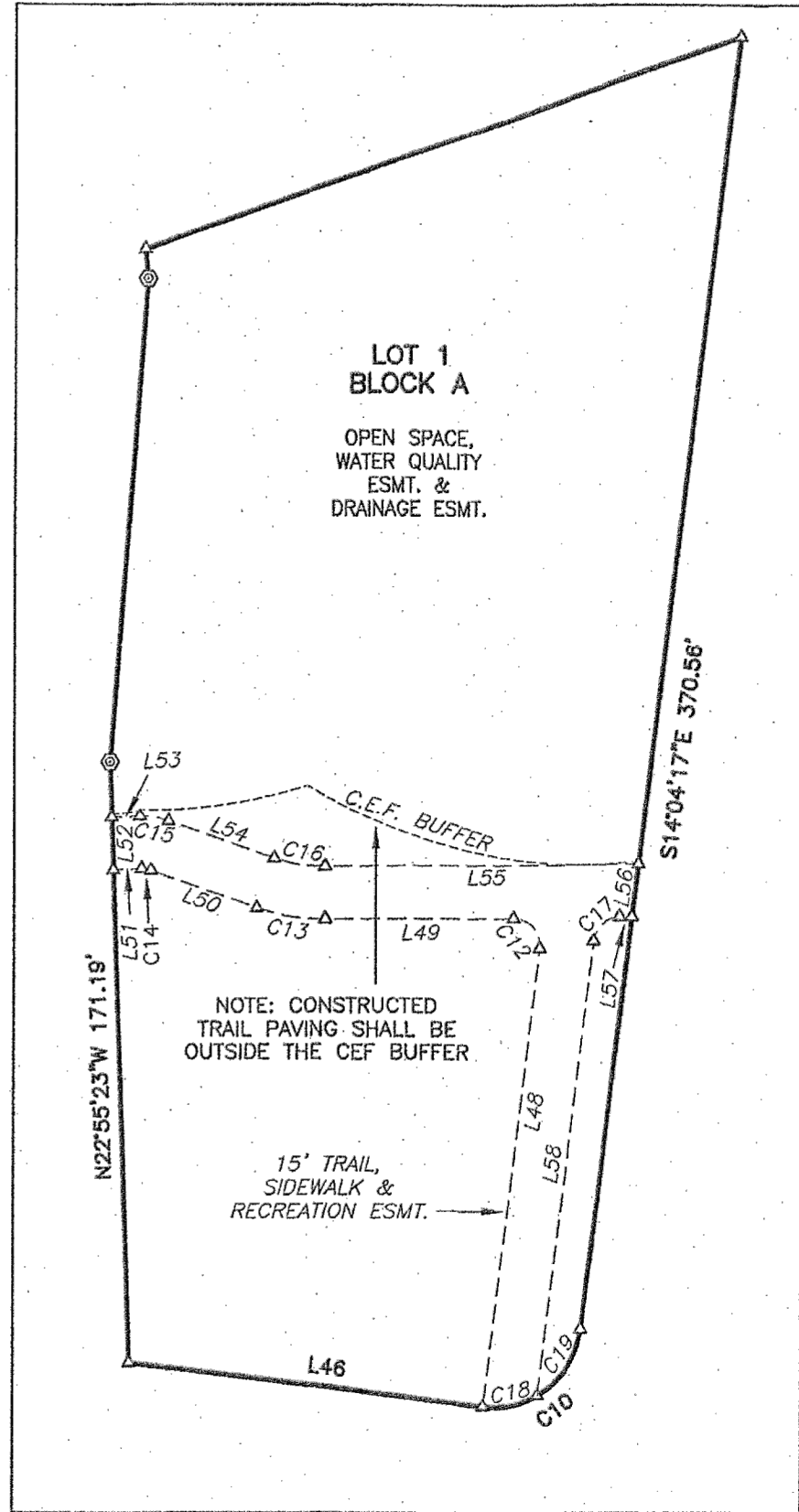
| LINE TABLE | | |
|------------|-------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | N51°33'41"E | 38.11' |
| L2 | N47°12'47"E | 34.01' |
| L3 | N64°48'53"E | 39.04' |
| L4 | N78°51'50"E | 153.90' |
| L5 | N66°19'59"E | 27.32' |
| L6 | N82°30'05"E | 99.30' |
| L7 | S88°03'52"E | 63.58' |
| L8 | N87°03'28"E | 68.50' |
| L9 | S81°08'49"E | 68.81' |
| L10 | S77°06'28"E | 65.69' |
| L11 | S83°33'17"E | 119.30' |
| L12 | S00°04'23"W | 77.24' |
| L13 | S47°28'10"E | 30.55' |
| L14 | S57°49'31"E | 29.97' |
| L15 | S37°29'52"E | 20.73' |
| L16 | S76°46'23"E | 27.53' |
| L17 | N51°00'17"E | 27.21' |
| L18 | N16°08'19"E | 49.56' |
| L19 | N24°48'59"E | 24.87' |
| L20 | N76°48'41"E | 19.57' |
| L21 | S72°42'28"E | 17.57' |
| L22 | S39°32'39"E | 22.01' |
| L23 | S31°22'53"E | 21.27' |
| L24 | S66°01'31"E | 24.83' |
| L25 | S72°21'11"E | 29.43' |
| L26 | N88°25'03"E | 26.38' |
| L27 | N72°25'21"E | 29.98' |
| L28 | N49°20'14"E | 30.57' |
| L29 | N26°39'33"W | 66.28' |
| L30 | S75°05'40"W | 4.16' |
| L31 | N22°55'10"W | 32.39' |
| L32 | N22°55'36"W | 32.39' |
| L33 | S42°56'37"W | 69.50' |
| L34 | S49°40'09"W | 139.87' |
| L35 | S81°58'35"W | 84.18' |
| L36 | S81°29'24"W | 206.27' |
| L37 | N81°23'38"W | 56.70' |
| L38 | N57°36'17"W | 76.53' |
| L39 | N83°16'06"W | 117.38' |
| L40 | N51°01'51"W | 19.45' |
| L41 | N11°09'45"W | 79.50' |
| L42 | S88°15'15"W | 153.41' |
| L43 | S55°44'18"W | 203.39' |
| L44 | S42°30'22"W | 152.99' |
| L45 | N75°55'43"E | 91.50' |
| L46 | S75°55'43"W | 101.46' |
| L47 | N16°39'51"W | 137.82' |
| L48 | N14°04'17"W | 131.54' |
| L49 | S68°29'50"W | 53.37' |
| L50 | S88°19'24"W | 32.02' |
| L51 | S67°04'37"W | 7.94' |
| L52 | N22°55'23"W | 15.00' |
| L53 | N67°04'37"E | 7.94' |
| L54 | N88°19'24"E | 32.02' |
| L55 | N68°29'50"E | 89.08' |
| L56 | S14°04'17"E | 15.13' |
| L57 | S68°29'50"W | 3.50' |
| L58 | S14°04'17"E | 130.46' |

| LOT SUMMARY | | SQUARE FOOTAGE |
|---|--------------|----------------|
| RIGHT-OF-WAY | 0.184 ACRES | 8,015 S.F. |
| COMMERCIAL (3) | 30.784 ACRES | 1,340,959 S.F. |
| OPEN SPACE, WATER QUALITY AND DRAINAGE EASEMENT (2) | 1.486 ACRES | 64,721 S.F. |
| TOTAL | 32.454 ACRES | 1,413,695 S.F. |

| TABLE OF LAND USES | | SQUARE FOOTAGE | ACRES |
|--------------------|--|----------------|--------|
| LOT 1, BLOCK A | OPEN SPACE, WATER QUALITY EASEMENT AND DRAINAGE EASEMENT | 52,742 S.F. | 1.211 |
| LOT 2, BLOCK A | COMMERCIAL | 718,509 S.F. | 16.495 |
| LOT 3, BLOCK A | COMMERCIAL | 201,822 S.F. | 4.633 |
| LOT 4, BLOCK A | COMMERCIAL | 420,618 S.F. | 9.656 |
| LOT 5, BLOCK A | OPEN SPACE, WATER QUALITY EASEMENT AND DRAINAGE EASEMENT | 11,979 S.F. | 0.275 |

C8-2017-0241.1A

| CURVE TABLE | | | | | |
|-------------|----------|-----------|---------|-------------|---------|
| CURVE | RADIUS | DELTA | ARC | BEARING | CHORD |
| C1 | 4386.39' | 0°00'53" | 1.12' | S72°33'28"W | 1.12' |
| C2 | 400.00' | 48°24'30" | 337.95' | S51°43'28"W | 327.99' |
| C3 | 400.00' | 44°52'17" | 313.26' | S05°05'04"W | 305.32' |
| C4 | 100.00' | 23°58'53" | 41.86' | S87°50'53"W | 41.55' |
| C5 | 50.00' | 32°53'56" | 28.71' | S83°28'28"W | 28.32' |
| C6 | 385.00' | 39°30'17" | 265.45' | S47°16'22"W | 260.23' |
| C7 | 415.00' | 38°08'22" | 276.25' | N46°35'24"E | 271.18' |
| C8 | 50.00' | 22°54'19" | 19.99' | N54°12'26"E | 19.86' |
| C9 | 100.00' | 33°10'40" | 57.91' | N59°16'48"E | 57.10' |
| C10 | 25.00' | 90°00'00" | 39.27' | S30°55'43"W | 35.36' |
| C11 | 25.00' | 90°00'00" | 39.27' | S59°04'17"E | 35.36' |
| C12 | 7.50' | 97°25'53" | 12.75' | N62°47'14"W | 11.27' |
| C13 | 57.50' | 19°49'34" | 19.90' | S78°24'37"W | 19.80' |
| C14 | 7.50' | 21°14'48" | 2.78' | S77°42'00"W | 2.77' |
| C15 | 22.50' | 21°14'48" | 8.34' | N77°42'00"E | 8.30' |
| C16 | 42.50' | 19°49'34" | 14.71' | N78°24'37"E | 14.63' |
| C17 | 7.50' | 82°34'07" | 10.81' | S27°12'46"W | 9.90' |
| C18 | 25.00' | 36°52'12" | 16.09' | S57°29'37"W | 15.81' |
| C19 | 25.00' | 53°07'48" | 23.18' | N12°29'37"E | 22.36' |



DETAIL "A"
1" = 50'

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

PROJECT NO.: 987-002
DRAWING NO.: 987-002-PL2
PLOT DATE: 10/09/16
PLOT SCALE: 1" = 100'
DRAWN BY: JBE BDP EBD
SHEET 2 OF 3



Know what's below.
Call before you dig.



BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880
2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650

CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER

3 OF 29

THIS SHEET PROVIDED
FOR REFERENCE ONLY

FINAL PLAT
(SHEET 2 OF 3)

KHA PROJECT 064421404
DATE FEBRUARY 2024
SCALE: AS SHOWN
DESIGNED BY: NZL
DRAWN BY: ASH
CHECKED BY: NZL

Kimley»Horn
10814 JOLLYVILLE ROAD AVALON IV SUITE 200 AUSTIN, TX 78759
PHONE: 512-418-1771 FAX: 512-418-1791
WWW.KIMLEY-HORN.COM
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.
TBE Firm No. 928

REVISIONS
No. DATE BY

Plotted By: Hudson, Audrey Date: February 26, 2024 05:44:17pm File Path: K:\Users\civil\064421404 - ctt highway 45\064421404.dwg File Name: 064421404.dwg
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STATE OF TEXAS
COUNTY OF WILLAMSON

KNOW ALL MEN BY THE PRESENTS:

THAT LEWIS WOODS, LLC, BEING THE OWNER OF THAT CERTAIN 52.591 ACRE TRACT OF LAND OUT OF THE MALCOLM M. HORNSBY SURVEY NO. 69, ABSTRACT NO. 281 IN WILLAMSON COUNTY, TEXAS, AS CONVEYED BY DEED RECORDED IN DOCUMENT NO. 2015004538 OF THE OFFICIAL PUBLIC RECORDS OF WILLAMSON COUNTY, TEXAS AND THAT CERTAIN 2.390 ACRE TRACT OF LAND OUT OF THE MALCOLM M. HORNSBY SURVEY NO. 69, ABSTRACT NO. 281 IN WILLAMSON COUNTY, TEXAS, AS CONVEYED BY DEED RECORDED IN DOCUMENT NO. 2018042807 OF THE OFFICIAL PUBLIC RECORDS OF WILLAMSON COUNTY, TEXAS,

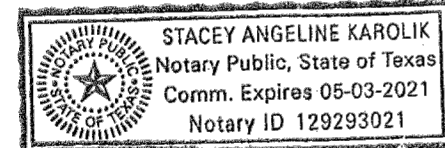
DO HEREBY SUBDIVIDE 32.454 ACRES OF LAND IN ACCORDANCE WITH THE ATTACHED MAP OR PLAT SHOWN HEREON, PURSUANT TO CHAPTER 212 OF THE TEXAS LOCAL GOVERNMENT CODE, TO BE KNOWN AS:

GENE TAYLOR TRACT

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

WITNESS MY HAND THIS THE 12th DAY OF December, 2018 A.D.

BY: Barrett Wood
LEWIS WOODS, LLC
1508 S LAMAR
AUSTIN, TX 78704
Barrett Wood, PRESIDENT



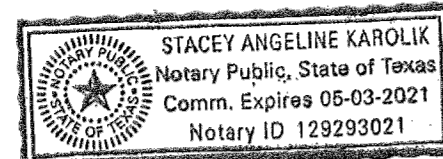
STATE OF TEXAS
COUNTY OF Williamson

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED

Barrett Wood, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND HE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEALED IN MY OFFICE, THIS THE 12th DAY OF December, 2018 A.D.

Stacy Angeline Karolik
NOTARY PUBLIC, STATE OF TEXAS
Stacy Angeline Karolik 5-3-21
PRINTED NAME MY COMMISSION EXPIRES



SURVEYOR'S CERTIFICATION:

I, PHILLIP L. MCLAUGHLIN, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF SURVEYING AND HEREBY CERTIFY THAT THIS PLAT COMPLIES WITH THE SURVEYING RELATED PORTIONS OF TITLE 30 OF THE AUSTIN CITY CODE OF 2003 AS AMENDED, IS TRUE AND CORRECT TO THE BEST OF MY ABILITY, AND WAS PREPARED FROM AN ACTUAL ON THE GROUND SURVEY OF THE PROPERTY SHOWN HEREON UNDER MY SUPERVISION.

Phillip L. McLaughlin
PHILLIP L. MCLAUGHLIN, R.P.L.S. NO. 5300 OCTOBER 9, 2018
CHAPARRAL PROFESSIONAL LAND SURVEYING, INC.
3500 MCCALL LANE
AUSTIN, TEXAS 78744
(512) 443-1724
FIRM NO. 10124500



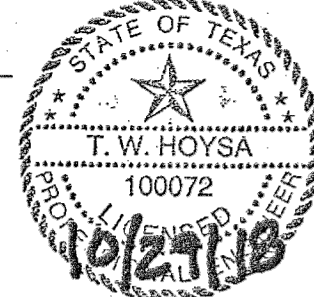
ENGINEER'S CERTIFICATION:

I, T. W. HOYSA, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING; THAT I PREPARED THE PLAT SUBMITTED HERewith; THAT ALL INFORMATION SHOWN HEREON IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AS RELATED TO THE ENGINEERING PORTIONS THEREOF.

A PORTION OF THE TRACT SHOWN HEREON LIES WITHIN ZONE "AE" (AREAS DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOODPLAIN AKA 100-YEAR FLOOD WITH BASE FLOOD ELEVATIONS DETERMINED), AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48491C0630E, REVISED TO REFLECT LOMR EFFECTIVE MARCH 22, 2010, FOR WILLAMSON COUNTY, TEXAS AND INCORPORATED AREAS.

THIS TRACT IS LOCATED WITHIN THE EDWARDS AQUIFER RECHARGE ZONE.

T. W. Hoyisa
T. W. HOYSA
PROFESSIONAL ENGINEER NO. 100072
STATE OF TEXAS



ENGINEERING BY:
LJA ENGINEERING
921 W NEW HOPE DR SUITE 603
CEDAR PARK, TX 78613
P: 512-306-0228
M: 512-914-9782
TEXAS REGISTERED ENGINEERING FIRM FRN-13186

SUBDIVISION NOTES:

1. WATER AND WASTEWATER SERVICE FOR THIS PROPERTY WILL BE PROVIDED BY ON-SITE WATER WELLS AND AN ON-SITE SANITARY FACILITY (OSSF). ON-SITE WATER AND WASTEWATER FACILITIES SHALL BE APPROVED BY THE WILLAMSON COUNTY AND CITIES HEALTH DISTRICT (WCCHD).
2. NO STRUCTURE SHALL BE OCCUPIED UNTIL CONNECTED TO ON-SITE WATER AND WASTEWATER FACILITIES APPROVED AND INSPECTED BY WCCHD.
3. BY APPROVING THIS PLAT, THE CITY OF AUSTIN AND WILLAMSON COUNTY ASSUME NO OBLIGATION TO CONSTRUCT ANY INFRASTRUCTURE IN CONNECTION WITH THIS SUBDIVISION. ANY SUBDIVISION INFRASTRUCTURE REQUIRED FOR THE DEVELOPMENT OF THE LOTS IN THIS SUBDIVISION IS THE RESPONSIBILITY OF THE DEVELOPER AND/OR THE OWNERS OF THE LOTS. FAILURE TO CONSTRUCT ANY REQUIRED INFRASTRUCTURE TO CITY STANDARDS MAY BE JUST CAUSE FOR THE CITY TO DENY APPLICATIONS FOR CERTAIN DEVELOPMENT PERMITS, INCLUDING BUILDING PERMITS, SITE PLAN APPROVALS, AND/OR CERTIFICATES OF OCCUPANCY.
4. THE OWNER OF THIS SUBDIVISION, AND HIS OR HER SUCCESSORS AND ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF THE CITY OF AUSTIN. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR REPLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.
5. DETENTION NOTE: PRIOR TO DEVELOPMENT OF THIS SUBDIVISION, DRAINAGE PLANS WILL BE SUBMITTED TO CITY OF AUSTIN FOR REVIEW. RAINFALL RUNOFF SHALL BE DETAINED BY THE USE OF PONDING, OR OTHER APPROVED METHODS IF AVAILABLE AT SITE PLAN, EXCESS RUNOFF MAY BE ALLOWED TO AN AMOUNT ESTABLISHED BY REGIONAL DETENTION PLANS APPROVED BY THE UPPER BRUSHER CREEK WCD.
6. THE OWNER/DEVELOPER OF THIS SUBDIVISION/LOT SHALL PROVIDE TXU WITH ANY EASEMENT AND/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 THE CITY OF AUSTIN LAND DEVELOPMENT CODE.
7. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY INITIAL TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE PROPOSED OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. THE OWNER SHALL INCLUDE TXU'S WORK WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT. ANY RELOCATIONS OR OUTAGES CAUSED BY THIS PROJECT WILL BE CHARGED TO THE CONTRACTOR/OWNER.
8. PUBLIC SIDEWALKS, BUILT TO CITY OF AUSTIN STANDARDS ARE REQUIRED ALONG THE FOLLOWING STREETS AND AS SHOWN BY A DOTTED LINE ON THE FACE OF THE PLAT: CROSSROADS DRIVE AND S O CONNOR DRIVE. THE REQUIRED SIDEWALKS SHALL BE IN PLACE PRIOR TO THE LOT BEING OCCUPIED. FAILURE TO CONSTRUCT THE REQUIRED SIDEWALKS MAY RESULT IN THE WITHHOLDING OF CERTIFICATES OF OCCUPANCY, BUILDING PERMITS, OR UTILITY CONNECTIONS BY THE GOVERNING BODY OR UTILITY COMPANY. LDC, 25-6-351.
9. EROSION/SEDIMENTATION CONTROLS AREA REQUIRED FOR ALL CONSTRUCTION IN THIS SUBDIVISION PURSUANT TO THE LAND DEVELOPMENT CODE AND THE ENVIRONMENTAL CRITERIA MANUAL.
10. NO OBJECTS, INCLUDING BUT NOT LIMITED TO, BUILDINGS, FENCES, OR LANDSCAPING SHALL BE ALLOWED IN A DRAINAGE EASEMENT EXCEPT AS APPROVED BY THE CITY OF AUSTIN.
11. FACILITIES FOR OFF-STREET LOADING AND UNLOADING SHALL BE PROVIDED FOR ALL LOTS IN THIS SUBDIVISION.
12. ALL STREETS, DRAINAGE, SIDEWALKS, WATER AND WASTEWATER LINES, AND EROSION CONTROLS SHALL BE CONSTRUCTED TO CITY OF AUSTIN STANDARDS.
13. PRIOR TO CONSTRUCTION, EXCEPT DETACHED SINGLE FAMILY ON ANY LOT IN THIS SUBDIVISION, A SITE DEVELOPMENT PERMIT MUST BE OBTAINED FROM THE CITY OF AUSTIN.
14. LANDSCAPE AND OPEN SPACE LOTS SHALL BE OWNED AND MAINTAINED BY THE OWNER OR HIS SUCCESSOR/ASSIGNS.
15. LANDSCAPE AND OPEN SPACE LOTS SHALL BE EXCLUDED FROM DEVELOPMENT EXCEPT FOR ENVIRONMENTAL FEATURES, LANDSCAPING, SIGNAGE AND TRAILS. CONSTRUCTION WITHIN CRITICAL ENVIRONMENTAL FEATURE SETBACKS IS LIMITED TO CONSTRUCTION ALLOWED BY LDC 25-8-281 AND 25-8-282.
16. WATER QUALITY CONTROLS ARE REQUIRED FOR ALL DEVELOPMENT WITH IMPERVIOUS COVER IN EXCESS OF 20% OF THE NET SITE AREA, PURSUANT TO LDC SECTION 25-8-211.
17. THIS PLAT INCLUDES 1.486 ACRES OF PRIVATE OPEN SPACE LAND AS DESCRIBED IN THE ROBINSON RANCH ANNEXATION AND DEVELOPMENT AGREEMENT, COMPRISED OF LOTS 1 AND 5, BLOCK A.
18. ALL OF LOT 1, A PORTION OF LOT 4 AND ALL OF LOT 5 ARE WITHIN THE LIMITED PURPOSE CITY LIMITS OF THE CITY OF AUSTIN SHALL BE DEVELOPED IN ACCORDANCE WITH THE ROBINSON RANCH DEVELOPMENT AGREEMENT.
19. THIS PLAT IS SUBJECT TO THE CITY OF AUSTIN'S VOID AND WATER FLOW MITIGATION RULES.
20. PUBLIC SIDEWALKS ARE REQUIRED ALONG SH 45W AS SHOWN BY A DOTTED LINE ON THE FACE OF THE PLAT. THE SIDEWALKS ALONG SH45 ARE SUBJECT TO THE APPROVAL OF TXDOT AT THE SITE PLAN PHASE, THE REQUIRED SIDEWALKS SHALL BE IN PLACE PRIOR TO THE LOT BEING OCCUPIED. FAILURE TO CONSTRUCT THE REQUIRED SIDEWALKS MAY RESULT IN THE WITHHOLDING OF CERTIFICATES OF OCCUPANCY, BUILDING PERMITS, OR UTILITY CONNECTIONS BY THE GOVERNING BODY OR UTILITY COMPANY. LDC, 25-6-351.
21. ALL ACTIVITIES WITHIN THE CEF BUFFER MUST COMPLY WITH THE CITY OF AUSTIN LAND DEVELOPMENT CODE, THE NATURAL VEGETATIVE COVER MUST BE RETAINED TO THE MAXIMUM EXTENT PRACTICABLE; CONSTRUCTION IS PROHIBITED; AND WASTEWATER DISPOSAL OR IRRIGATION IS PROHIBITED.
22. ACCESS TO LOTS 1 AND 5 SHALL BE FROM CROSSROADS DRIVE.
23. This subdivision plat was approved and recorded before the construction and acceptance of streets and other subdivision improvements. Pursuant to the terms of a Subdivision Construction Agreement between the Subdivider and the City of Austin, dated JANUARY 23, 2019, the Subdivider is responsible for the construction of all streets and facilities needed to serve the lots within the subdivision. This responsibility may be assigned in accordance with the terms of that agreement. For the Construction Agreement pertaining to this subdivision, see the separate instrument recorded in Document Number 2019014249, in the Official Public Records of Williamson County, Texas."

OSSF NOTES:

1. THIS TRACT IS LOCATED OVER THE EDWARDS AQUIFER RECHARGE ZONE.
2. NO CONSTRUCTION IN THE SUBDIVISION MAY BEGIN UNTIL THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) HAS APPROVED THE WATER POLLUTION ABATEMENT PLAN (WPAP) IN WRITING.
3. ON SITE SEWAGE FACILITIES MUST BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR REGISTERED SANITARIAN.
4. WATER SERVICE FOR THIS SUBDIVISION WILL BE PROVIDED BY ON-SITE WATER WELLS.
5. SEWER SERVICE FOR THIS SUBDIVISION WILL BE PROVIDED BY ON-SITE SEWAGE FACILITIES.
6. PROPOSED WELLS MUST BE LOCATED 50' FROM THE PROPERTY LINE.
7. NO DEVELOPMENT REQUIRING AN OSSF MAY OCCUR ON LOT 1 OR LOT 5, BLOCK A.
8. SETBACKS FROM WATER WELL SHALL BE PER CONSTRUCTED WELL LOCATION. WELL LOCATIONS SHOWN ON THIS PLAT MAY BE REVISED WITH PERMITTING OF EACH INDIVIDUAL LOT.

BASED UPON THE ABOVE REPRESENTATIONS OF THE ENGINEER OF SURVEYOR WHOSE SEAL IS AFFIXED HERETO, AND AFTER A REVIEW OF THE SURVEY AS REPRESENTED BY THE SAID ENGINEER OR SURVEYOR, I FIND THAT THIS BLUE LINE (SURVEY) COMPLIES WITH THE REQUIREMENTS OF EDWARDS AQUIFER REGULATIONS FOR WILLAMSON COUNTY AND WILLAMSON COUNTY ON-SITE SEWAGE FACILITY REGULATIONS. THIS CERTIFICATION IS MADE SOLELY UPON SUCH REPRESENTATION AND SHOULD NOT BE RELIED UPON FOR VERIFICATIONS OF THE FACTS ALLEGED. THE WILLAMSON COUNTY ENGINEER'S OFFICE AND WILLAMSON COUNTY DISCLAIM ANY RESPONSIBILITY TO ANY MEMBER OF THE PUBLIC FOR INDEPENDENT VERIFICATION OF THE REPRESENTATIONS, FACTUAL OR OTHERWISE, CONTAINED IN THIS BLUE LINE (SURVEY) AND THE DOCUMENTS ASSOCIATED WITH IT.

J. Terron
TERRON EVERTSON, PE, DR, CFM
COUNTY ENGINEER

THIS SUBDIVISION PLAT IS LOCATED WITHIN THE 2-MILE EXTRA TERRITORIAL JURISDICTION AND THE LIMITED PURPOSE JURISDICTION OF THE CITY OF AUSTIN ON THIS THE 8 DAY OF February, 2019.

APPROVED AND AUTHORIZED FOR RECORD BY THE DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT, CITY OF AUSTIN, COUNTY OF TRAVIS.

THIS THE 8 DAY OF February, 2019 A.D.

Cesar Zavalza
CESAR ZAVALA FOR J. RODNEY GONZALES, DIRECTOR
DEVELOPMENT SERVICES DEPARTMENT

ACCEPTED AND AUTHORIZED FOR RECORD BY THE ZONING AND PLATTING COMMISSION OF

THE CITY OF AUSTIN, TEXAS, THIS THE 18 DAY OF December, 2018.

Jolene Kiobassa
JOLENE KIOBASSA, CHAIR
ANA
ANA AQUIRRE, SECRETARY

STATE OF TEXAS
COUNTY OF WILLAMSON

I, NANCY RISTER, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE 6th DAY OF MARCH, A.D. 2019, AT 10:25 O'CLOCK, A.M. AND DULY RECORDED THIS THE 6th DAY OF MARCH, 2019, A.D. AT 10:37 O'CLOCK A.M., IN THE OFFICIAL PUBLIC RECORDS OF SAID COUNTY IN INSTRUMENT NO. 2019018154 TO CERTIFY WHICH, WITNESS MY HAND AND SEAL AT THE COUNTY COURT OF SAID COUNTY, AT MY OFFICE IN GEORGETOWN, TEXAS, THE LAST DATE SHOWN ABOVE WRITTEN.

NANCY E. RISTER, CLERK OF THE COUNTY COURT
OF WILLAMSON COUNTY, TEXAS
BY: Brande McKernie
Brande McKernie, DEPUTY



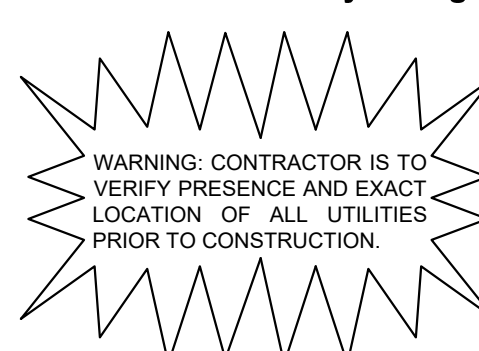
Chaparral
Professional Land Surveying, Inc.
Surveying and Mapping
3500 McCall Lane
Austin, Texas 78744
512-443-1724
Firm No. 10124500

PROJECT NO.:
987-002
DRAWING NO.:
987-002-PL2
PLOT DATE:
10/09/18
PLOT SCALE:
1" = 100'
DRAWN BY:
JBE BBP EBD
SHEET
3 OF 3

C8-2017-0241.1A



Know what's below.
Call before you dig.



BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880
2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 980' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.850

CTT HEADQUARTERS

COMPLEX

15807 CROSSROADS DRIVE

CITY OF AUSTIN
WILLAMSON COUNTY, TEXAS

FINAL PLAT
(SHEET 3 OF 3)

KHA PROJECT
064421404

DATE
FEBRUARY 2024

SCALE: AS SHOWN

DESIGNED BY: NZL

DRAWN BY: ASH

CHECKED BY: NZL

THIS SHEET PROVIDED
FOR REFERENCE ONLY

Kimley»Horn
10814 JOLLYVILLE ROAD AVALON IV SUITE 200 AUSTIN, TX 78759
PHONE: 512-418-1771 FAX: 512-418-1791
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REVISIONS

DATE

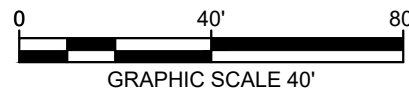
SHEET NUMBER
4 OF 29



| | |
|------|---------------|
| 5282 | 17" CEDAR ELM |
| 5283 | 19" POST OAK |
| 5284 | 11" CEDAR ELM |
| 5285 | 19" POST OAK |

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST
RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730'
NORTH OF THE INTERSECTION OF O'CONNOR DRIVE
AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH
RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX.
950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE
AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650



| | |
|-----------------|---------------------------|
| _____ | PROPERTY LINE |
| ----- | EXISTING EASEMENT |
| ===== | EXISTING EDGE OF PAVEMENT |
| ----- W ----- | EXISTING WATER LINE |
| ----- GAS ----- | EXISTING GAS LINE |
| ----- XXX ----- | EXISTING MAJOR CONTOUR |
| ----- XXX ----- | EXISTING MINOR CONTOUR |

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL OF EXISTING PAVEMENT SECTION, STRUCTURAL FOUNDATION, AND UTILITIES ON THE SITE. CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION SPOTS OFF-SITE IN A LEGAL MANNER.
2. 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.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF-SITE IN A MANNER ACCEPTABLE TO ALL APPLICABLE REGULATIONS.
5. PERIMETER EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO DEMOLITION. REFERENCE EROSION CONTROL PLAN ON SHEET 8 AND EROSION CONTROL DETAILS SHEETS 29 FOR TYPE AND LOCATION.
6. CONTRACTOR SHALL REMOVE ANY EXISTING ONSITE DEBRIS OR TRASH (TIRES, CONCRETE PADS, AND METAL BUILDING THAT IS FALLING DOWN).
7. TREES AND TOPOGRAPHY BASED UPON GROUND SURVEY BY KIMLEY-HORN ON JUNE 13, 2022.
8. A PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
9. LOCATIONS OF PUBLIC AND FRANCHISE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL THE ONE CALL CENTER (472-2822) AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CALL 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.
10. REMOVAL OR RELOCATION OF EXISTING PUBLIC AND PRIVATE FRANCHISE UTILITIES (ELECTRIC, GAS, TELECOM, ETC.) WITHIN THE LIMITS OF THE SITE DEMOLITION SHALL BE COORDINATED WITH THE APPLICABLE UTILITY AGENCIES.
11. ALL UTILITIES IN STREET RIGHT-OF-WAY TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
12. SURFACE PAVEMENT IDENTIFIED HEREON (SUCH AS ASPHALT OR CONCRETE) MAY OVERLAY OTHER HIDDEN STRUCTURES (SUCH AS OTHER LAYERS OF PAVEMENT, BUILDING SLAB, ETC.) THAT ARE ALSO TO BE REMOVED.
13. UTILITY POLE AND GUY WIRE RELACEMENT SHALL BE COORDINATED BY CONTRACTOR WITH AUSTIN ENERGY, AS REQUIRED.

1. PRIOR TO EXCAVATION WITHIN TREE DRILPHOLES OR THE REMOVAL OF TREES ADJACENT TO OTHER TREES THAT ARE TO REMAIN, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE ROOT DAMAGE.
2. 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 GEOTEXTILE FABRIC, PER STANDARD PRACTICE, 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 IN CERTAIN AREAS TO IMPROVE ROOT PROTECTION EQUIPMENT. ONCE THE PROJECT IS COMPLETED, ALL MATERIALS SHOULD BE REMOVED, AND THE MULCH SHOULD BE REDUCED TO A DEPTH OF 3 INCHES.
3. PERFORM ALL GRADING WITHIN CRITICAL ROOT ZONE AREAS BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE.
4. WATER ALL TREES MOST HEAVILY ANTICIPATED BY CONSTRUCTION ACTIVITIES DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A FLAME-ARRESTING BARRIER BETWEEN THE CONCRETE TO PROHIBIT LEACHING OF LINE INTO THE SOIL.



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

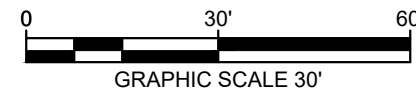
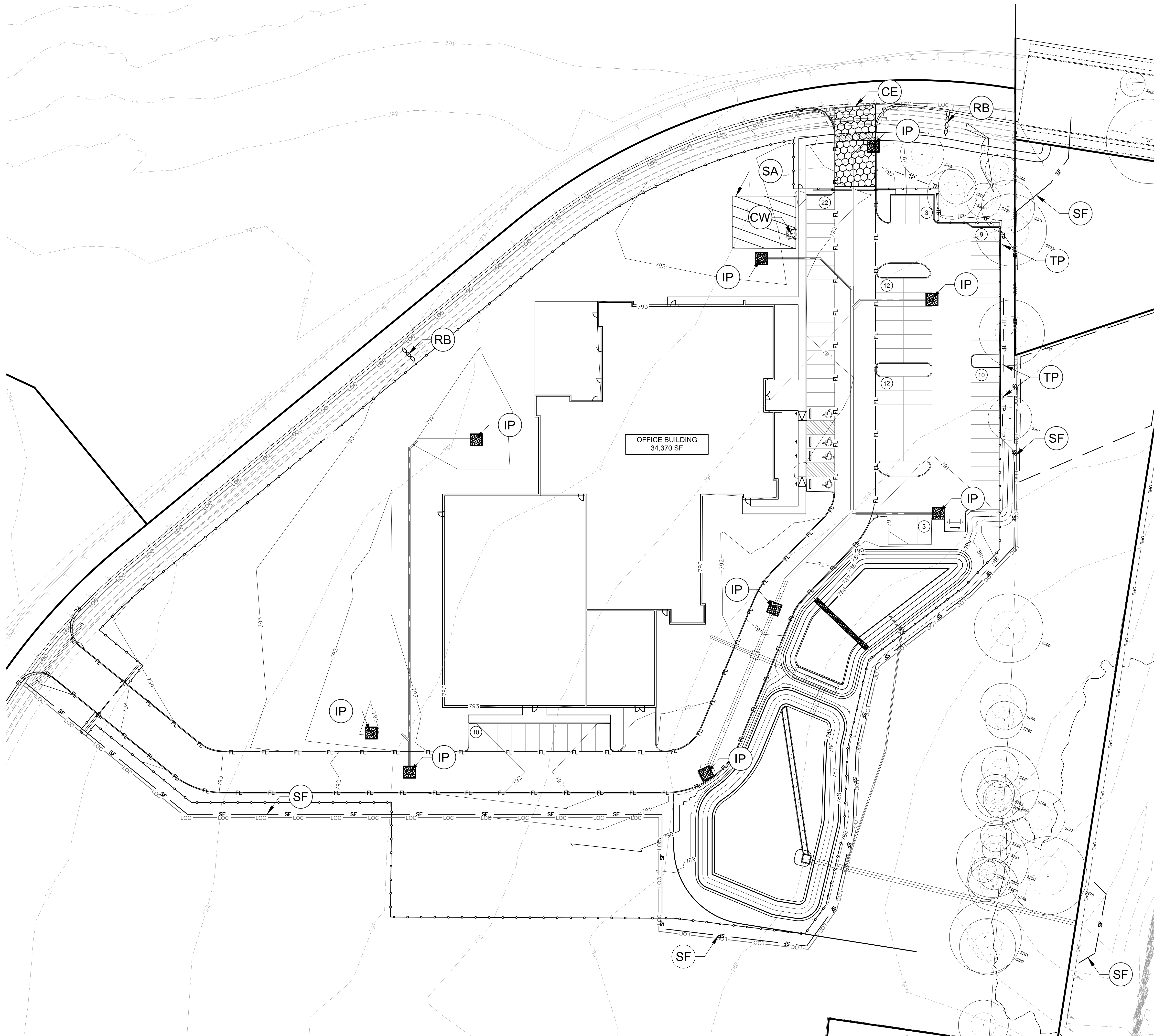
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JOLLYVILLE ROAD AVALLON IV SUITE 200 AUSTIN, TX 78759
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| KHA PROJECT 064421404 | DATE FEBRUARY 2024 | SCALE: AS SHOWN | DESIGNED BY: NZL | DRAWN BY: ASH | CHECKED BY: NZL |
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CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS



EROSION CONTROL NOTES

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
2. 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.
3. THE ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
4. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURE DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5) OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
5. TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMPs 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 BMPs SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS WHEN PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
6. BMPs HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
7. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED BY THE CITY DURING CONSTRUCTION.
8. REFERENCE EROSION CONTROL NOTES AND DETAILS ON SHEET 29.
9. 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 WITHIN 14.4.B.3. (SEE ECM 1.4.4.1, 1.4.4.2, 1.4.4.3, 1.4.4.4, 1.4.4.5, 1.4.4.6, 1.4.4.7, 1.4.4.8, 1.4.4.9, 1.4.4.10, 1.4.4.11).
10. ALL DISTURBED AREAS TO BE RE-VEGETATED PER CITY OF AUSTIN STANDARDS.
11. SEE LANDSCAPE ARCHITECT PLANS FOR TREE PRESERVATION PLAN AND TREE LIST.
12. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS ON A MINIMUM OF ONCE DAILY.

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



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

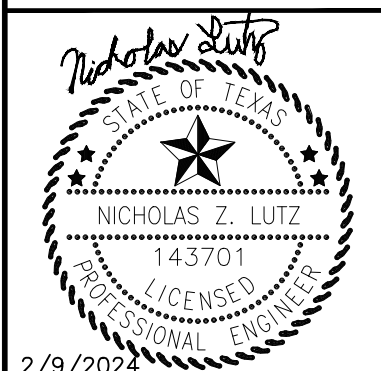
BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650

[illegible]

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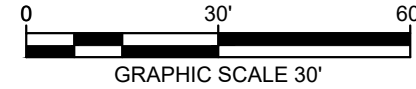
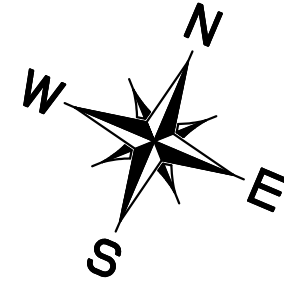
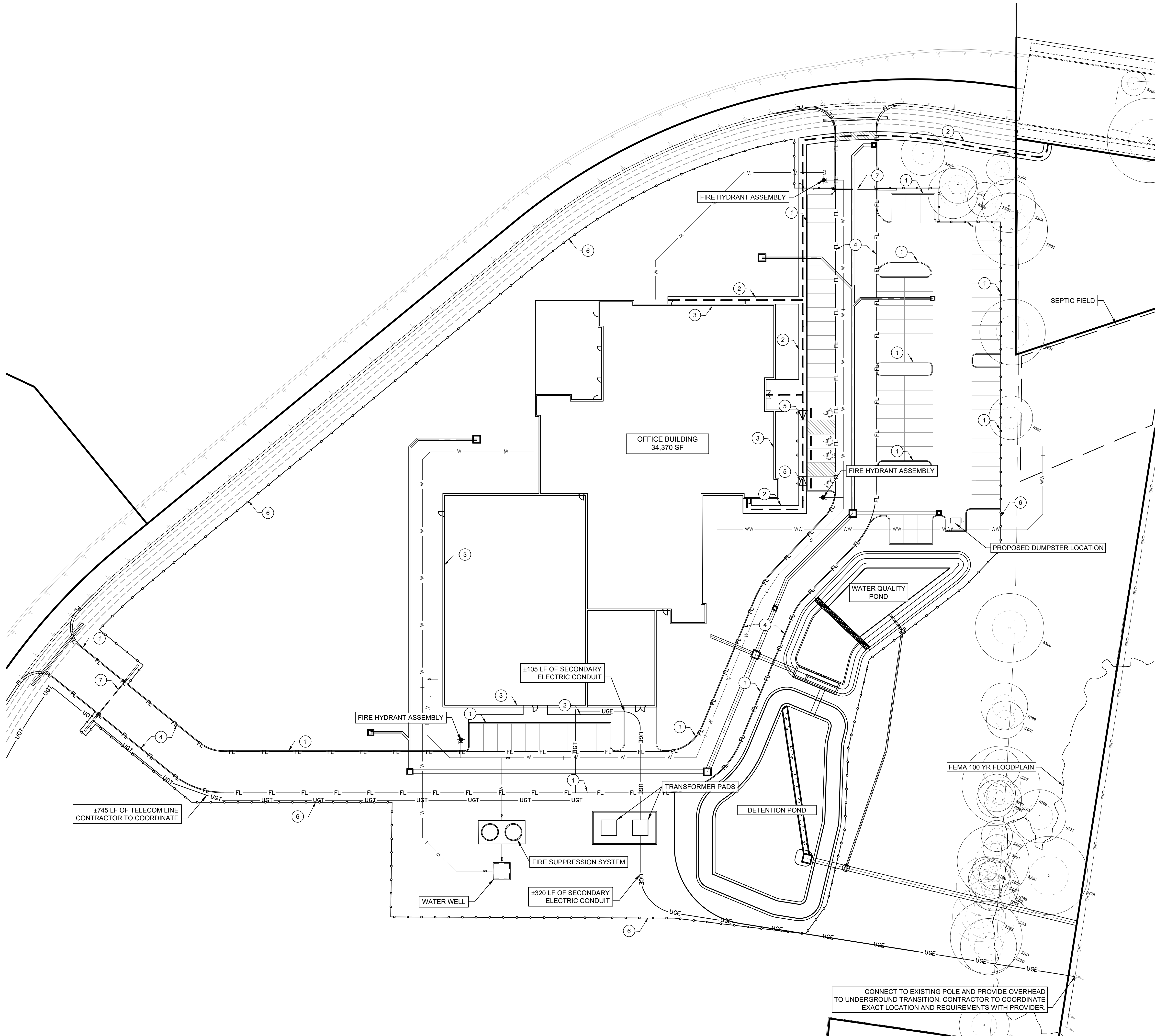
EROSION CONTROL PLAN

**CTT HEADQUARTERS
COMPLEX**
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER
8 OF 29

Plotted By: Hudson, Audrey Date: February 26, 2024 05:46:22pm File Path: K:\Users\civil\064421404 - ctt highway 45\Coord Plans\Sheets\Overall Site Plan.dwg

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



LEGEND

| | |
|-----|-------------------------------|
| --- | PROPERTY LINE |
| --- | ADA ACCESSIBLE ROUTE |
| --- | BUILDING SETBACK |
| --- | 100 YR FLOODPLAIN |
| 1 | PROPOSED 6" CURB |
| 2 | PROPOSED 5' CONCRETE SIDEWALK |
| 3 | PROPOSED BUILDING LIMITS |
| 4 | FIRE LANE STRIPING |
| 5 | BARRIER FREE RAMP |
| 6 | SECURITY FENCE |
| 7 | SECURITY GATES |

NOTES

1. ALL FIRE DEPARTMENT ACCESS DRIVES/ROADS TO HAVE A MINIMUM 13'-6" VERTICAL CLEARANCE.
2. 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 MAY BE APPROVED BY THE FIRE CHIEF, PROVIDED THE FIRE LANES ARE CLEARLY IDENTIFIED AT BOTH ENDS AND AT INTERVALS NOT TO EXCEED 35 FEET. SEC. 901.4.2
3. ALL PARKING SPACES SHALL HAVE MINIMUM 7'-0" VERTICAL CLEARANCE.
4. EVERY HANDICAP ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED BY A SIGN CENTERED 5 FEET ABOVE THE PARKING SURFACE, AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE RESERVED, OR EQUIVALENT LANGUAGE. SUCH SIGNS SHALL NOT BE OBTAINED BY A VEHICLE PARKED IN THE SPACE AND SHALL MEET THE CRITERIA SET FORTH IN UBC, 3108(c) AND ANSI A117.1-1986-4.6.2.
5. CONTRACTOR TO HAVE STAKING VERIFIED BY OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. ALL RADII TO BE 3' UNLESS OTHERWISE NOTED.
8. RETAINING WALLS OVER FOUR FEET IN HEIGHT MEASURED FROM THE BOTTOM OF FOOTING TO THE TOP OF THE WALL SHALL BE ENGINEERED AND REQUIRE A SEPARATE BUILDING PERMIT [IBC 105.2].
9. SCREENING FOR SOLID WASTE COLLECTION AND LOADING AREAS SHALL BE THE SAME AS, OR OF EQUAL QUALITY TO, PRINCIPAL BUILDING MATERIALS.
10. ALL STANDARD PARKING STALLS TO BE 9'0" WIDE BY 18'0" DEEP TO FACE OF CURB
11. ALL INTERNAL UTILITIES WILL BE LOCATED IN THE DRIVE AISLES AND NOT IN THE PARKING AREAS.

SITE AREA CALCULATIONS

| | |
|---------------------------------|-------------------------------------|
| TOTAL SITE AREA | 420,618 SQ. FT. |
| FLOOR AREA RATIO | 0.0780 |
| TOTAL EXISTING IMPERVIOUS COVER | 0 SQ. FT. |
| TOTAL IMPERVIOUS COVER | 87,082.01 SQ. FT. -OR- 20.70% |
| TOTAL BUILDING COVERAGE | 37,101.58 SQ. FT. -OR- 8.82% |
| PROPOSED USE | OFFICE |

PROPOSED BUILDING INFORMATION

| | |
|--------------------------|----------------|
| NUMBER OF STORIES | 1 |
| BUILDING HEIGHT | 32'-6" |
| FINISHED FLOOR ELEVATION | 793.00' |
| FOUNDATION TYPE | SLAB ON GRADE |
| BUILDING FOOTPRINT AREA | 34,370 SQ. FT. |
| PROPOSED USE | OFFICE |
| BUILDING TYPE | TYPE II-B |

BENCHMARKS

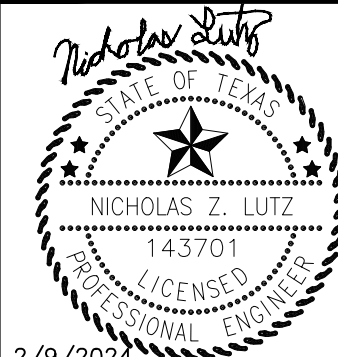
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Know what's below.
Call before you dig.

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

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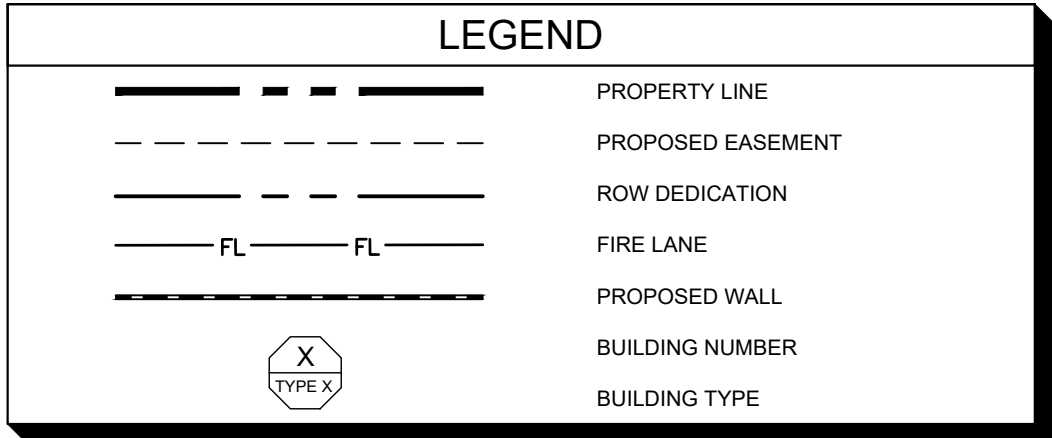
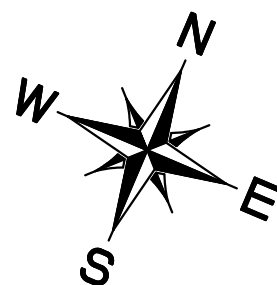
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|-------------|---------------|----------|-------------|----------|------------|
| KHA PROJECT | DATE | SCALE | DESIGNED BY | DRAWN BY | CHECKED BY |
| 064421404 | FEBRUARY 2024 | AS SHOWN | NZL | ASH | NZL |

OVERALL SITE PLAN

CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER

9 OF 29



1. ALL FIRE DEPARTMENT ACCESS DRIVES/ROADS TO HAVE A MINIMUM 13'-6" VERTICAL CLEARANCE.
2. 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 MARKINGS OF THE FIRE LANES MAY BE APPROVED BY THE FIRE CHIEF. PROVIDED THE FIRE LANES ARE CLEARLY IDENTIFIED AT BOTH ENDS AND AT INTERVALS NOT TO EXCEED 35 FEET. SEC. 901.4.2
3. ALL PARKING SPACES SHALL HAVE MINIMUM 7'-0" VERTICAL CLEARANCE.
4. EVERY HANDICAP ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED BY A SIGN CENTRALLY 5 FEET ABOVE THE PARKING SURFACE, AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND BE SQUARE OR RECTANGULAR IN SHAPE. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE AND SHALL MEET THE CRITERIA SET FORTH IN UDC, 310(c)(6) AND ANSI A117.1-1986-4.6.2.
5. CONTRACTOR TO HAVE STAKING VERIFIED BY OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
6. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
7. ALL RADII TO BE 3' UNLESS OTHERWISE NOTED.
8. RETAINING WALLS OVER FOUR FEET IN HEIGHT MEASURED FROM THE BOTTOM OF FOOTING TO THE TOP OF THE WALL SHALL BE ENGINEERED AND REQUIRE A SEPARATE BUILDING PERMIT [IBC 105.2].
9. SCREENING FOR SOLID WASTE COLLECTION AND LOADING AREAS SHALL BE THE SAME AS, OR OF EQUAL QUALITY TO, PRINCIPAL BUILDING MATERIALS.
10. ALL STANDARD PARKING STALLS TO BE 9'-0" WIDE BY 18'-0" DEEP TO FACE OF CURB. ALL COMPACT PARKING STALLS TO BE 7'-5" WIDE BY 15'-0" DEEP TO FACE OF CURB.
11. ALL INTERNAL UTILITIES WILL BE LOCATED IN THE DRIVE AISLES AND NOT IN THE PARKING AREAS.
12. SEE OVERALL SITE PLAN ON SHEET 9 FOR ADDITIONAL NOTES.

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST
RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730'
NORTH OF THE INTERSECTION OF O'CONNOR DRIVE
AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH
RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX.
950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE
AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650



Know what's below.
Call before you dig.

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

CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

DIMENSION
CONTROL PLAN

| | | | | | |
|--------------------------|-----------------------|-----------------|------------------|---------------|-----------------|
| KHA PROJECT 064421404 | DATE FEBRUARY 2024 | SCALE: AS SHOWN | DESIGNED BY: NZL | DRAWN BY: ASH | CHECKED BY: NZL |
|--------------------------|-----------------------|-----------------|------------------|---------------|-----------------|

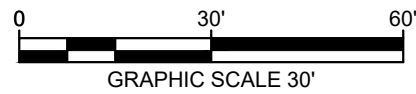
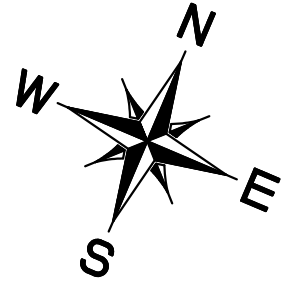
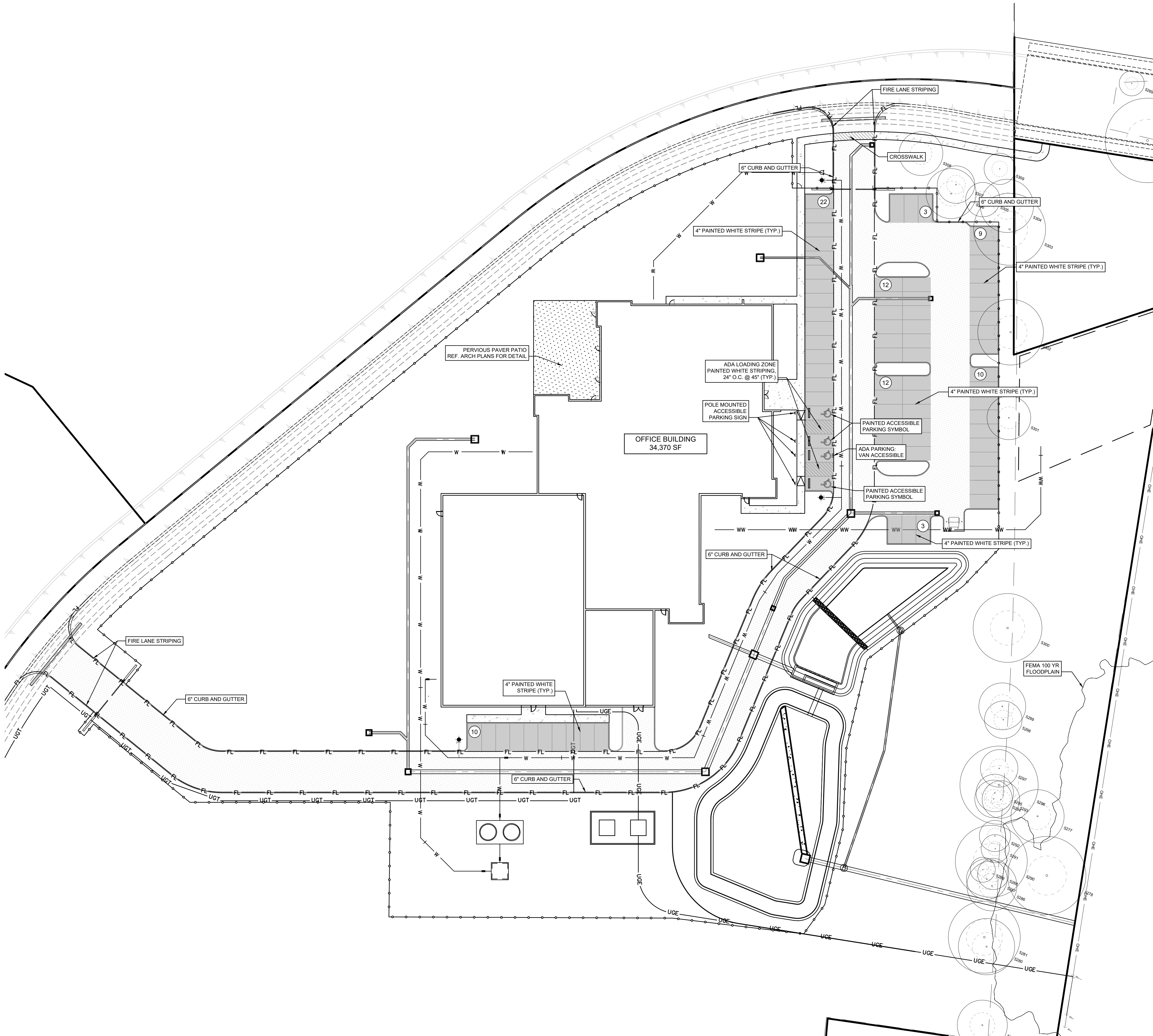


Kimley»Horn
10814 JOLLYVILLE ROAD AVALON IV SUITE 200 AUSTIN, TX 78759
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TBEF Firm No. 928

| No. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|-----|-----------|------|----|

Plotted By: Hudson, Audrey Date: February 26, 2024 05:47:41pm File Path: K:\Users\civil\064421404 - ctt highway 45\Cad\plan sheets\VC - Paving Plan.dwg

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| LEGEND | |
|--------|------------------------------|
| | PROPERTY LINE |
| | PROPOSED FIRE LANE |
| | LIGHT DUTY PAVEMENT |
| | MEDIUM DUTY PAVEMENT |
| | HEAVY DUTY CONCRETE PAVEMENT |
| | PERVIOUS PAVEMENT |
| | PROPOSED ADA STRIPING |
| | PROPOSED SIDEWALK |

REFER TO GEOTECHNICAL REPORT
BY M&L LABS, INC.
GEOTECH PROJECT NO. 18101100.116
DATED: JANUARY 2019

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| | | | | | |
|-------------|---------------|----------|--------------|-----------|-------------|
| KHA PROJECT | DATE | SCALE | DESIGNED BY: | DRAWN BY: | CHECKED BY: |
| 064421404 | FEBRUARY 2024 | AS SHOWN | NZL | ASH | NZL |

PAVING PLAN

CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

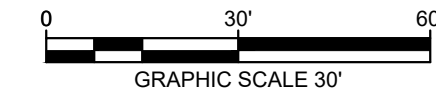
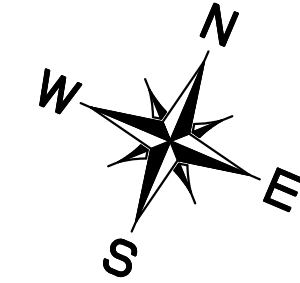
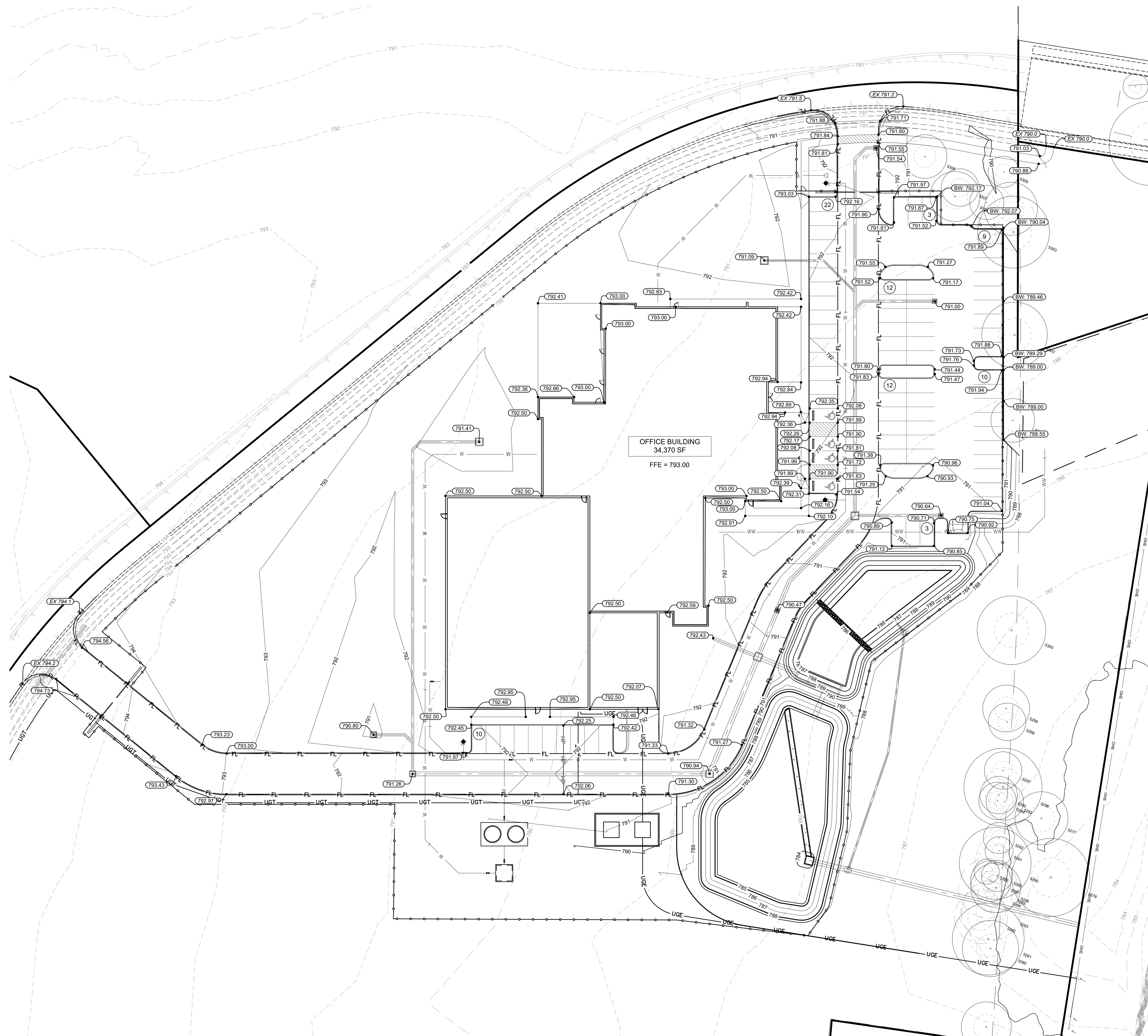
BENCHMARKS

- BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880
- BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.550



Know what's below.
Call before you dig.

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



| LEGEND | |
|--------|------------------------------------|
| | PROPERTY LINE |
| | EXISTING MAJOR CONTOUR |
| | EXISTING MINOR CONTOUR |
| | PROPOSED MAJOR CONTOUR |
| | PROPOSED MINOR CONTOUR |
| | PROPOSED DRY STACK WALL |
| | HIGH POINT |
| | PROPOSED FINISHED FLOOR ELEVATION |
| | PROPOSED TOP OF PAVEMENT ELEVATION |
| | PROPOSED GRADE AT TOP OF WALL |
| | PROPOSED GRADE AT BOTTOM OF WALL |
| | PROPOSED GRADE AT END OF WALL |
| | PROPOSED TOP OF GRATE ELEVATION |
| | EXISTING GRADE |
| | EXISTING TREE TO REMAIN |

GRADING NOTES

1. ALL PROPOSED ELEVATIONS ARE TOP OF PAVEMENT OR NATURAL GROUND UNLESS OTHERWISE NOTED.
2. ALL TOP OF WALL ELEVATIONS ARE TOP OF GRADE AT WALL.
3. ALL BOTTOM OF WALL ELEVATIONS ARE TO BOTTOM OF GRADE AT WALL.
4. CONTRACTOR TO VERIFY A.D. COMPLIANCE FOR GRADES IN ALL SIDEWALK ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSINGS; SHALL CONFORM TO ALL APPLICABLE A.D. STANDARDS; NOT EXCEED 5.0% ALONG TRAVEL PATH WITH NOT MORE THAN 2.0% CROSS SLOPE AND NOT EXCEED 2.0% IN ANY DIRECTION IN ACCESSIBLE PARKING AREAS.
5. MAINTAIN EXISTING GRADE IN TREE WELLS; CONTRACTOR TO ENSURE POSITIVE DRAINAGE TO AREA INLETS.

ADA NOTES

1. SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP (TAS 4.2.7). THE MAXIMUM SLOPE OF A RAMP IN A NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. (TAS 4.8.2, FIG. 6) ACCESSIBLE ROUTES MUST HAVE A CROSS SLOPE NO GREATER THAN 1:50 (TAS 4.3.7) ACCESSIBLE PARKING SPACES MUST BE LOCATED ON A SURFACE WITH A SLOPE NOT EXCEEDING 1:50. GROUND SURFACES MUST BE STABLE, FIRM, AND SLIP RESISTANT. (TAS 4.5.1)
2. DRAINAGE NOT TO CHANGE FROM EXISTING CONDITION, WITH EXCEPTION OF ADJUSTMENTS TO ADA AND UNIVERSITY NEIGHBORHOOD OVERLAY COMPLIANCE.
3. 1'-0"X1'-6" 080° ALUM. HANDICAPPED PARKING SIGN. SIGN TO READ "RESERVED PARKING" W/ IDENTIFICATION SYMBOL, BOLT TO STEEL TUBE W/ 3/8" CADMIUM PLATED BOLTS, NUTS & WASHERS.
4. HANDICAP SIGNAGE TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF LICENSING AND REGULATION TEXAS ACCESSIBILITY STANDARDS (TAS) PER 4.6.4. 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 CAN NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.

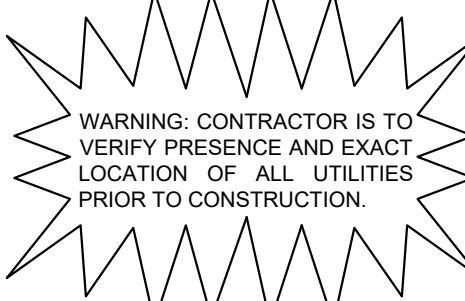
BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650



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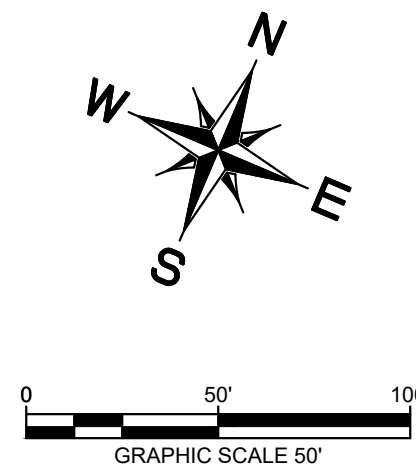
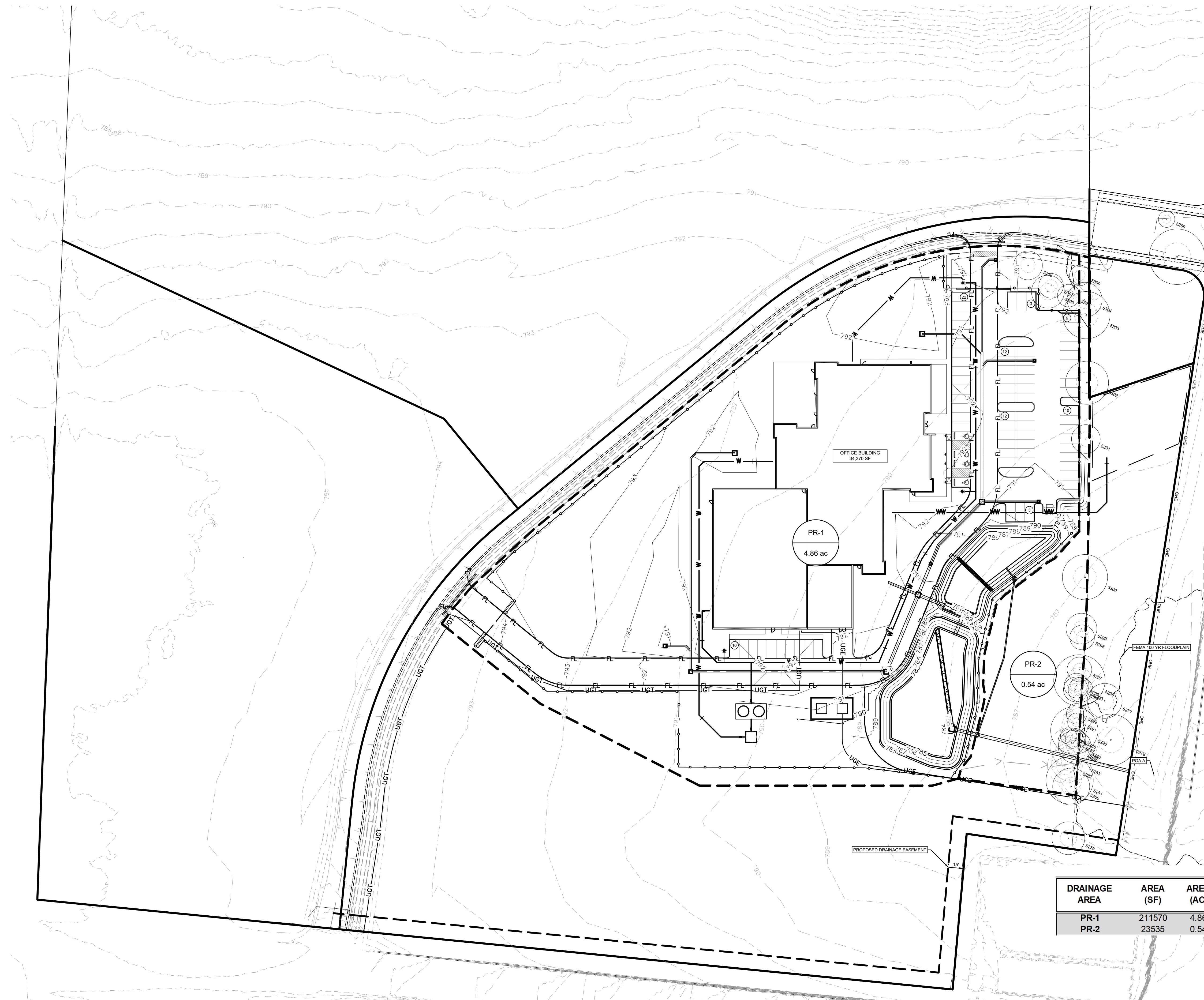
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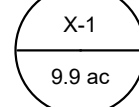














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|--------------------------|
| KHA PROJECT 064421404 |
| DATE FEBRUARY 2024 |
| SCALE: AS SHOWN |
| DESIGNED BY: NZL |
| DRAWN BY: ASH |
| CHECKED BY: NZL |

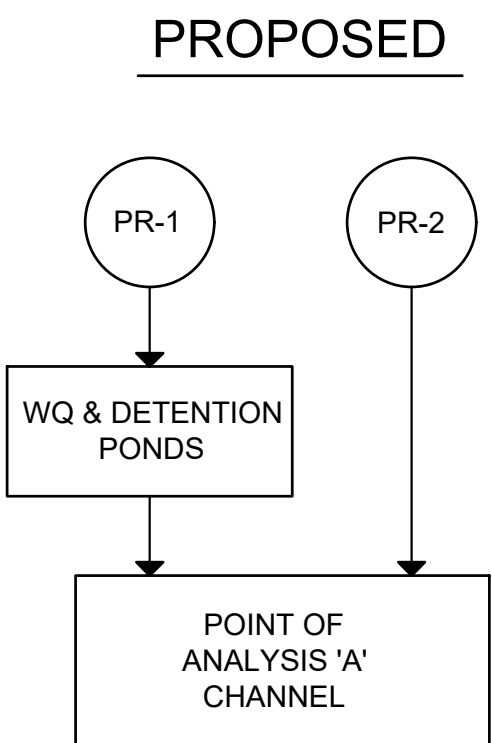
GRADING PLAN

**CTT HEADQUARTERS
COMPLEX**
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS



LEGEND

| | |
|---|-------------------------------|
|  | AREA DESIGNATOR |
|  | AREA IN ACRES |
|  | INLET NUMBER |
|  | PROPERTY LINE |
|  | EXISTING STORM DRAIN LINE |
|  | PROPOSED DRAINAGE DIVIDE |
|  | PROPOSED STORM DRAIN LINE |
|  | PROPOSED STORM DRAIN INLET |
|  | PROPOSED STORM DRAIN MANHOLE |
|  | PROPOSED STORM DRAIN HEADWALL |
|  | PROPOSED FLOW DIRECTION |
|  | EXISTING MAJOR CONTOUR |
|  | EXISTING MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
| | TIME OF CONCENTRATION PATH |



| Point of Analysis | Storm Event | Existing Runoff POA-A | Developed Runoff POA-A | Runoff Difference at Confluence | Is Developed \leq Existing? |
|-------------------|-------------|--------------------------|---------------------------|---------------------------------|-------------------------------|
| A | 2 | 25.61 | 18.71 | 6.90 | YES |
| | 10 | 48.91 | 33.94 | 14.97 | YES |
| | 25 | 64.97 | 45.25 | 19.72 | YES |
| | 100 | 91.77 | 65.10 | 26.67 | YES |

| DRAINAGE AREA | AREA (SF) | AREA (AC) | PROPOSED CONDITIONS | | | | | WEIGHTED CURVE NUMBER (CN) |
|---------------|-----------|-----------|-----------------------|-----------------------|----------------------|---------------------------|---------------------------|----------------------------|
| | | | IMPERVIOUS COVER (SF) | IMPERVIOUS COVER (AC) | IMPERVIOUS COVER (%) | RUNOFF COEFFICIENT (CN 1) | RUNOFF COEFFICIENT (CN 2) | |
| PR-1 | 211570 | 4.86 | 88737 | 2.04 | 41.94% | 98.00 | 80.00 | 87.55 |
| PR-2 | 23535 | 0.54 | 0 | 0.00 | 0.00% | 98.00 | 80.00 | 80.00 |

CTT Highway 45 - Proposed Conditions

| DRAINAGE AREA | AREA (SF) | AREA (AC) | IMPERVIOUS COVER (SF) | IMPERVIOUS COVER (%) | WEIGHTED CURVE NUMBER (CN) | SHEET FLOW | | | | SHALLOW CONCENTRATED FLOW | | | | TOTAL Tc* (min) | Q ₂ (cfs) | Q ₁₀ (cfs) | Q ₂₅ (cfs) | Q ₁₀₀ (cfs) |
|---------------|-----------|-----------|-----------------------|----------------------|----------------------------|---------------------------------|--------|-----------|---------|----------------------------------|---------|-----------|----------|-----------------|----------------------|-----------------------|-----------------------|------------------------|
| | | | | | | P-2yr24hr 4.06 IN | | | | | | | | | | | | |
| | | | | | | N | L (ft) | S (ft/ft) | Tt(min) | L (ft) | V (fps) | S (ft/ft) | Tt (min) | | | | | |
| PR-1 | 211570.06 | 4.86 | 88737.19 | 41.9% | 87.55 | Tc to time-out before 5 minutes | | | | under fully developed conditions | | | | 5.00 | 20.05 | 33.41 | 42.32 | 57.04 |
| PR-2 | 23535.19 | 0.54 | 0.00 | 0.0% | 80.00 | 0.130 | 100.00 | 0.018 | 8.09 | 13.000 | 6.64 | 0.169 | 0.03 | 8.12 | 1.55 | 2.95 | 3.91 | 5.51 |

*Per City of Austin Drainage Criteria Manual, minimum Tc = 5 min

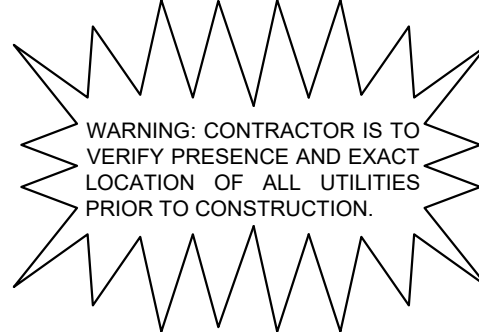
BENCHMARKS

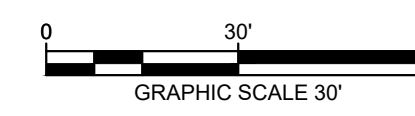
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ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650

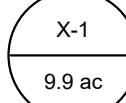

















Know what's **below**.
Call before you dig.





LEGEND

| | |
|---|-------------------------------|
|  | AREA DESIGNATOR |
|  | AREA IN ACRES |
|  | INLET NUMBER |
|  | PROPERTY LINE |
|  | EXISTING STORM DRAIN LINE |
|  | PROPOSED DRAINAGE DIVIDE |
|  | PROPOSED STORM DRAIN LINE |
|  | PROPOSED STORM DRAIN INLET |
|  | PROPOSED STORM DRAIN MANHOLE |
|  | PROPOSED STORM DRAIN HEADWALL |
|  | PROPOSED FLOW DIRECTION |
|  | EXISTING MAJOR CONTOUR |
|  | EXISTING MINOR CONTOUR |
|  | PROPOSED MAJOR CONTOUR |
|  | PROPOSED MINOR CONTOUR |
|  | TIME OF CONCENTRATION PATH |

| CTT HIGHWAY 45 SUBBASIN DRAINAGE CONDITIONS | | | | | | | | | | |
|--|--------------|--------------|-----------------------------|----------------------------|-----------------------------------|---------------------|-------------------------|--------------------------|--------------------------|---------------------------|
| DRAINAGE AREA | AREA (SF) | AREA (AC) | IMPERVIOUS COVER (AC) | IMPERVIOUS COVER (%) | WEIGHTED RUNOFF COEFFICIENT | TOTAL Tc** (min) | Q ₂ (cfs) | Q ₁₀ (cfs) | Q ₂₅ (cfs) | Q ₁₀₀ (cfs) |
| PR-1 | 34486.79 | 0.79 | 0.792 | 100.00% | 0.97 | 5.00 | 4.82 | 7.24 | 8.93 | 11.76 |
| PR-2 | 14172.11 | 0.33 | 0.009 | 2.75% | 0.48 | 11.76 | 0.74 | 1.11 | 1.36 | 1.79 |
| PR-3 | 5795.89 | 0.13 | 0.071 | 53.11% | 0.74 | 5.00 | 0.61 | 0.92 | 1.14 | 1.50 |
| PR-4 | 17127.80 | 0.39 | 0.284 | 72.12% | 0.83 | 5.00 | 2.05 | 3.08 | 3.80 | 5.00 |
| PR-5 | 13430.78 | 0.31 | 0.275 | 89.06% | 0.92 | 5.00 | 1.77 | 2.66 | 3.28 | 4.32 |
| PR-6 | 7598.27 | 0.17 | 0.078 | 44.47% | 0.69 | 5.00 | 0.76 | 1.14 | 1.40 | 1.85 |
| PR-7 | 13836.88 | 0.32 | 0.213 | 67.17% | 0.81 | 5.00 | 1.61 | 2.41 | 2.98 | 3.92 |
| PR-8 | 17208.23 | 0.40 | 0.231 | 58.46% | 0.76 | 5.00 | 1.89 | 2.84 | 3.50 | 4.61 |
| PR-9 | 35216.62 | 0.81 | 0.000 | 0.00% | 0.47 | 11.53 | 1.80 | 2.69 | 3.31 | 4.35 |
| PR-10 | 15409.73 | 0.35 | 0.059 | 16.62% | 0.55 | 12.87 | 1.23 | 1.85 | 2.27 | 3.00 |
| POINT OF ANALYSIS A | | | | | | | | | | |

| GRATE INLET SIZING CALCULATIONS | | | | | | | | | | |
|---------------------------------|--|--------------------------|-----------------|-----------|---------------------------|-------------|---------------------------|--------------------------|--------------------------|---|
| | | BASED ON FLOW CONVEYANCE | | | | | | BASED ON PIPE SIZE | | |
| DRAINAGE AREA | INLET TYPE | Q ₁₀₀ (CFS) | CLOGGING FACTOR | HEAD (FT) | REQUIRED INLET AREA (FT²) | Q MAX (CFS) | PROPOSED INLET AREA (FT²) | INLET TYPE BASED ON FLOW | CONNECTED PIPE SIZE (IN) | INLET SIZE BASED ON CONNECTED PIPE SIZE |
| 2 | 1.5' x 1.5' Surface Grate Inlet (Type S-2) | 1.79 | 0.50 | 0.50 | 1.05 | 3.07 | 1.80 | 1.5' x 1.5' | 12 | 1.5' x 1.5' |
| 3 | 2' x 2' Surface Grate Inlet (Type S-2) | 1.50 | 0.50 | 0.50 | 0.88 | 3.07 | 1.80 | 1.5' x 1.5' | 18 | 2' x 2' |
| 4 | 2' x 2' Surface Grate Inlet (Type S-2) | 5.00 | 0.50 | 0.50 | 2.94 | 5.45 | 3.20 | 2' x 2' | 18 | 2' x 2' |
| 5 | 2' x 2' Surface Grate Inlet (Type S-2) | 4.32 | 0.50 | 0.50 | 2.54 | 5.45 | 3.20 | 2' x 2' | 18 | 2' x 2' |
| 6 | JBSurface Grate Inlet (Type S-2) | 1.85 | 0.50 | 0.50 | 1.09 | 3.07 | 1.80 | 1.5' x 1.5' | 36 | JB |
| 7 | 3' x 3' Surface Grate Inlet (Type S-2) | 3.92 | 0.50 | 0.50 | 2.30 | 5.45 | 3.20 | 2' x 2' | 30 | 3' x 3' |
| 8 | 3' x 3' Surface Grate Inlet (Type S-2) | 4.61 | 0.50 | 0.50 | 2.71 | 5.45 | 3.20 | 2' x 2' | 30 | 3' x 3' |
| 9 | 2' x 2' Surface Grate Inlet (Type S-2) | 4.35 | 0.50 | 0.50 | 2.56 | 5.45 | 3.20 | 2' x 2' | 18 | 2' x 2' |
| 10 | 2' x 2' Surface Grate Inlet (Type S-2) | 3.00 | 0.50 | 0.50 | 1.76 | 3.07 | 1.80 | 1.5' x 1.5' | 18 | 2' x 2' |



Know what's below.
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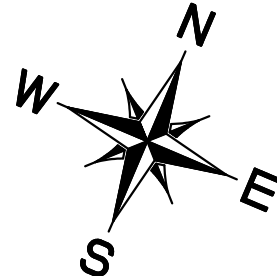
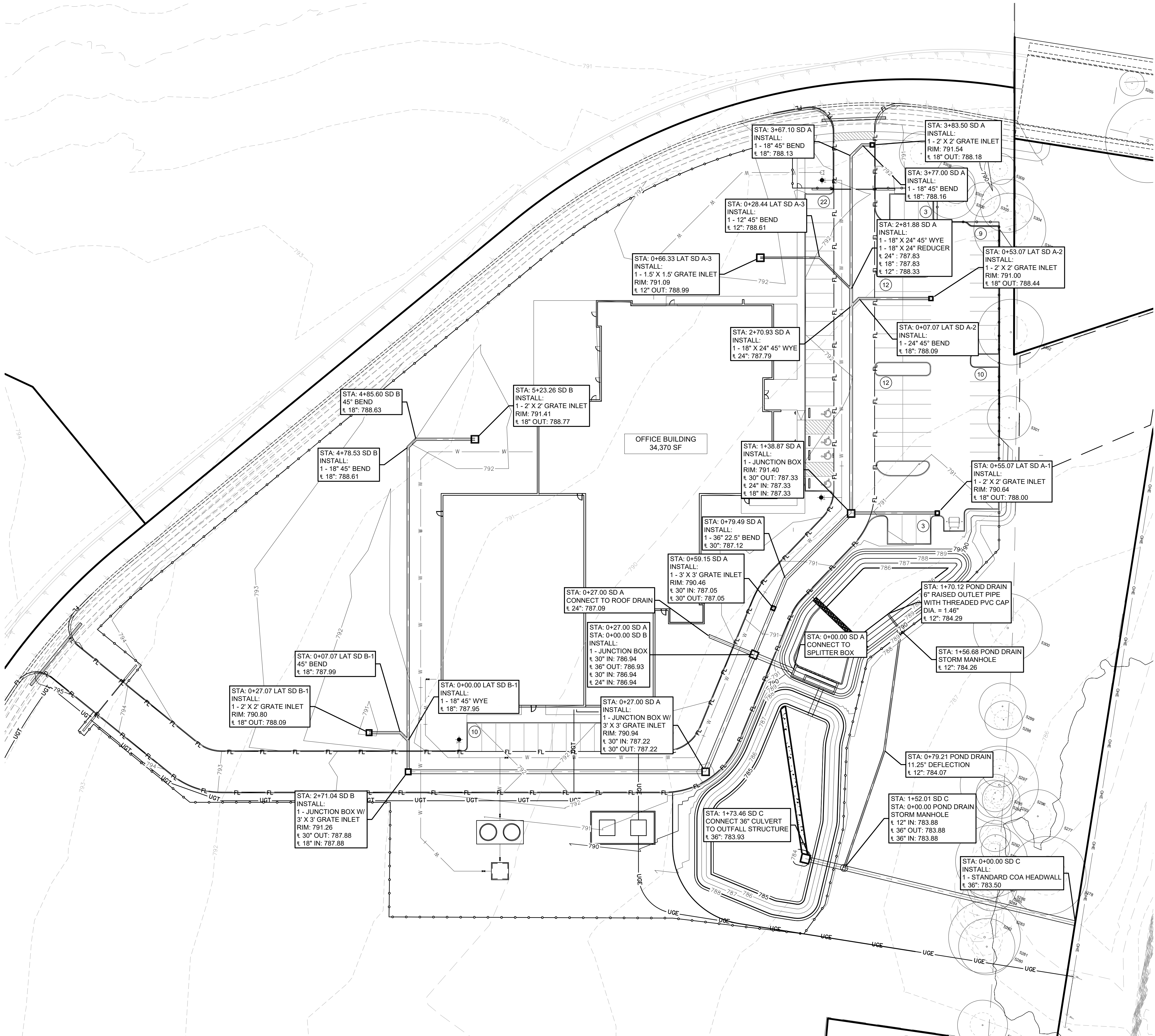
**WARNING: CONTRACTOR IS TO
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BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650

Plotted By: Hudson, Audrey Date: February 26, 2024 05:50:47pm File Path: K:\aas-civil\064421404 - ctt highway 45\Coord\plansheets\c - Overall Storm Plan.dwg
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0 30' 60'
GRAPHIC SCALE 30'

| LEGEND | |
|-------------|------------------------------|
| --- | PROPERTY LINE |
| --- XXX --- | EXISTING MAJOR CONTOUR |
| --- XXX --- | EXISTING MINOR CONTOUR |
| --- XXX --- | PROPOSED MAJOR CONTOUR |
| --- XXX --- | PROPOSED MINOR CONTOUR |
| --- | PROPOSED WATER LINE |
| --- | PROPOSED FIRE HYDRANT |
| --- | PROPOSED WASTEWATER LINE |
| --- | PROPOSED WASTEWATER MANHOLE |
| --- | PROPOSED WASTEWATER CLEANOUT |
| --- | PROPOSED STORM DRAIN LINE |
| --- | PROPOSED STORM DRAIN INLET |
| --- | EXISTING WATER LINE |
| --- | EXISTING WASTEWATER LINE |
| --- | EXISTING STORM DRAIN LINE |
| --- | EXISTING FIRE HYDRANT |
| --- | EXISTING WASTEWATER MANHOLE |

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|-------------|---------------|----------|-------------|----------|------------|
| KHA PROJECT | DATE | SCALE | DESIGNED BY | DRAWN BY | CHECKED BY |
| 064421404 | FEBRUARY 2024 | AS SHOWN | NZL | ASH | NZL |

OVERALL STORM PLAN

CTT HEADQUARTERS COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

BENCHMARKS

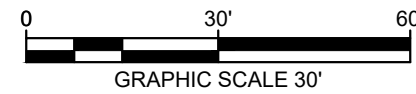
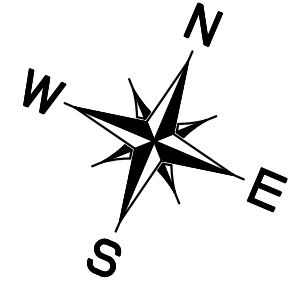
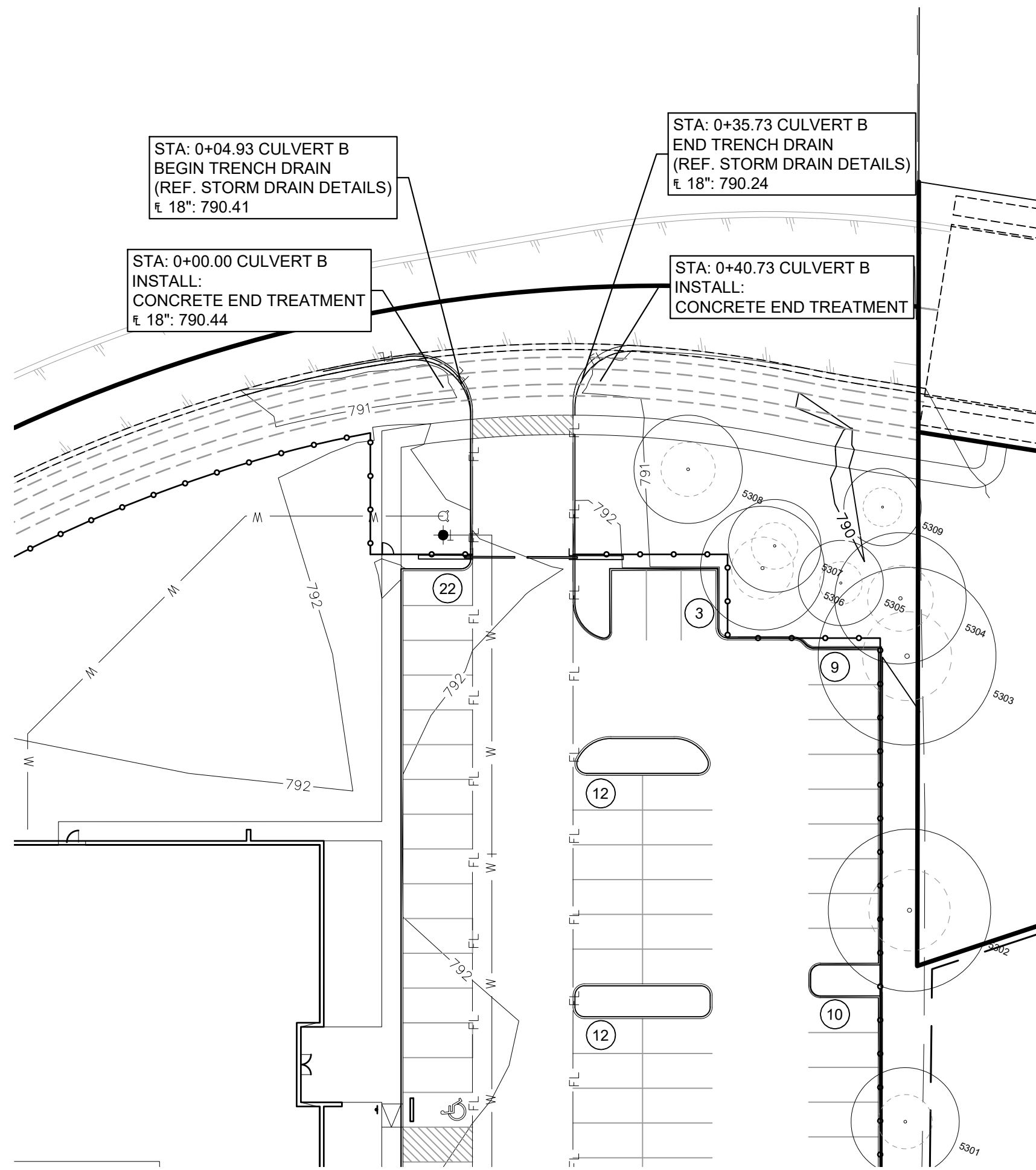
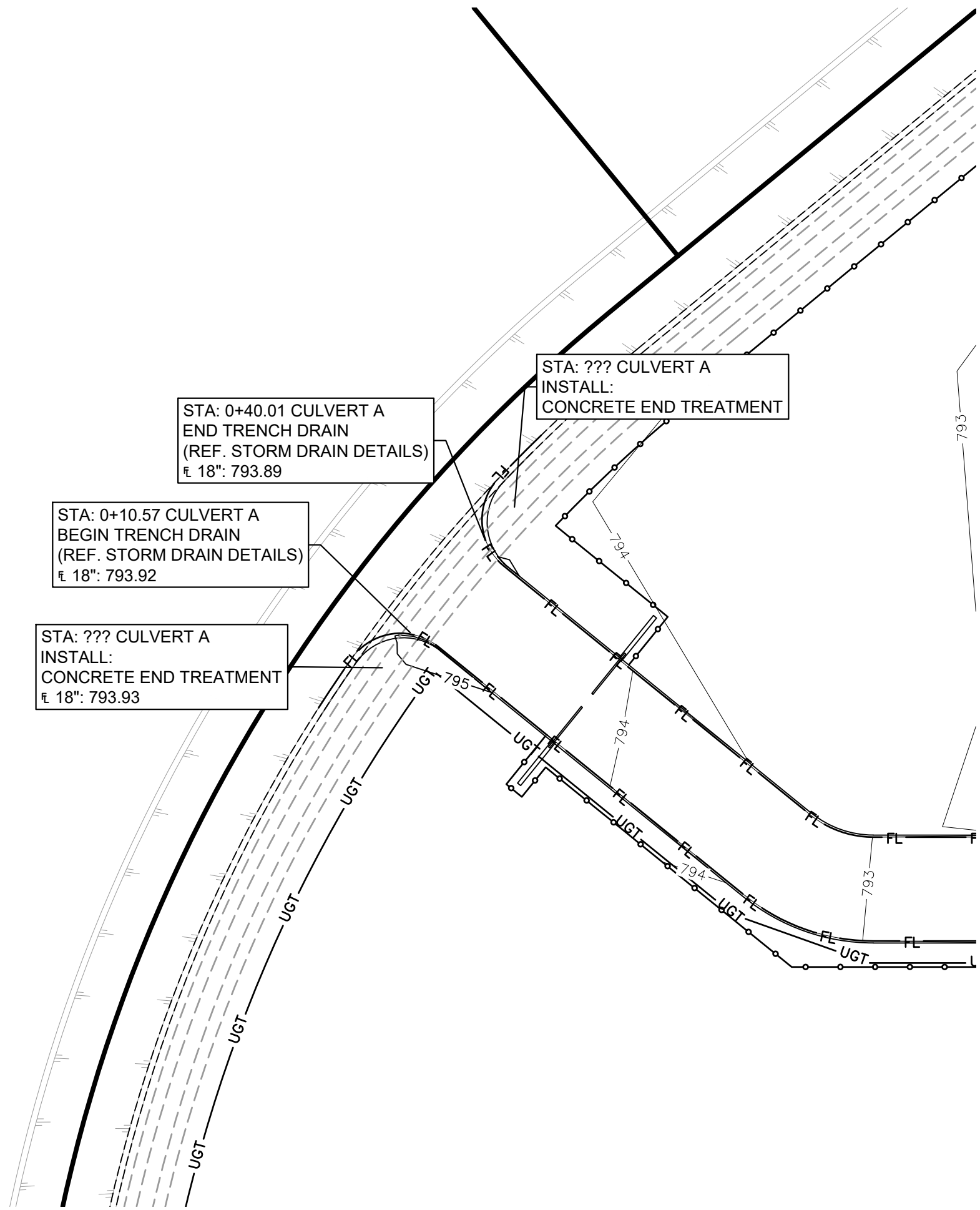
1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.550



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

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| LEGEND | |
|-------------|------------------------------|
| --- | PROPERTY LINE |
| --- XXX --- | EXISTING MAJOR CONTOUR |
| --- XXX --- | EXISTING MINOR CONTOUR |
| --- XXX --- | PROPOSED MAJOR CONTOUR |
| --- XXX --- | PROPOSED MINOR CONTOUR |
| --- | PROPOSED WATER LINE |
| --- | PROPOSED FIRE HYDRANT |
| --- | PROPOSED WASTEWATER LINE |
| --- | PROPOSED WASTEWATER MANHOLE |
| --- | PROPOSED WASTEWATER CLEANOUT |
| --- | PROPOSED STORM DRAIN LINE |
| --- | PROPOSED STORM DRAIN INLET |
| --- | EXISTING WATER LINE |
| --- | EXISTING WASTEWATER LINE |
| --- | EXISTING STORM DRAIN LINE |
| --- | EXISTING FIRE HYDRANT |
| --- | EXISTING WASTEWATER MANHOLE |

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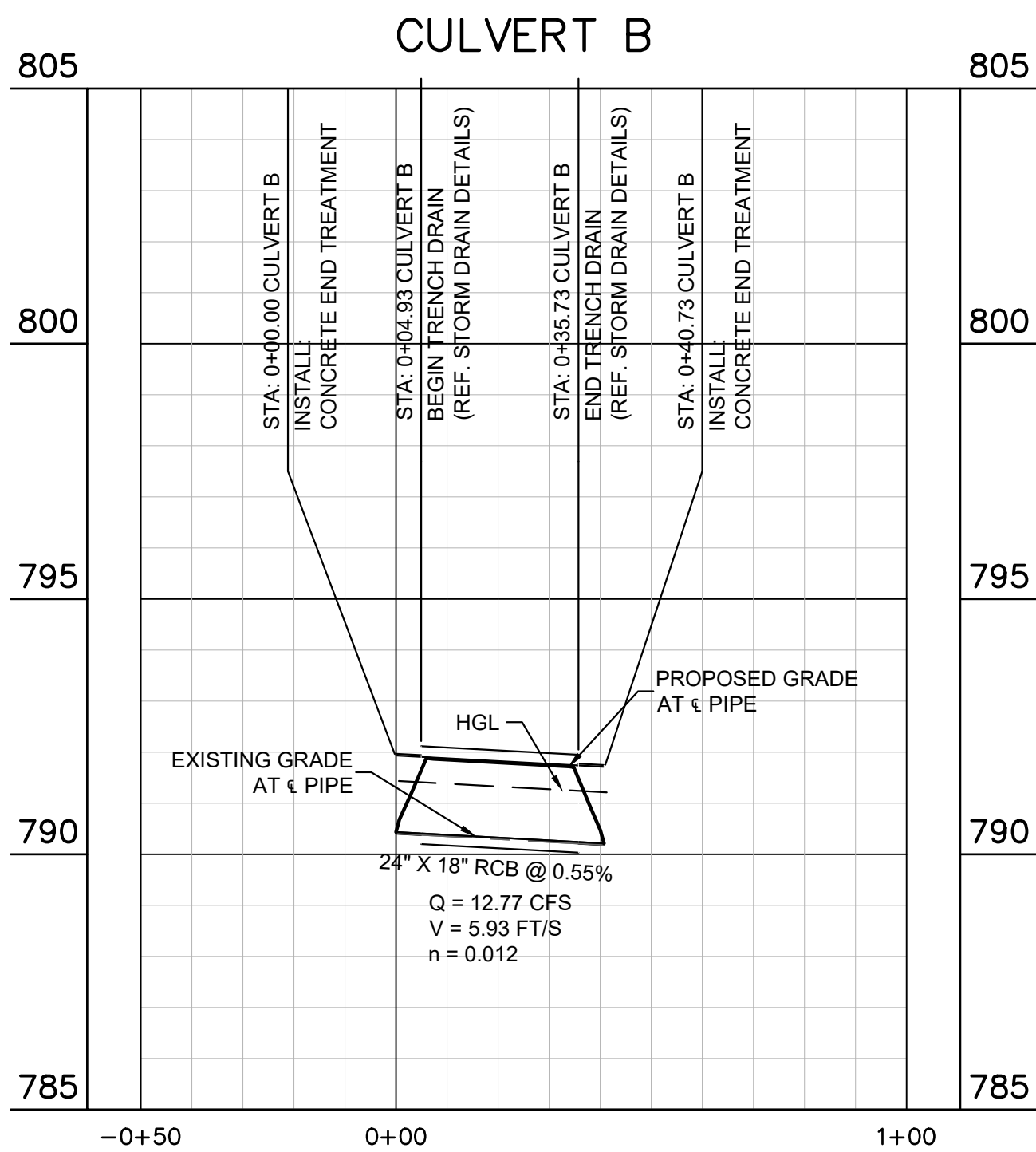
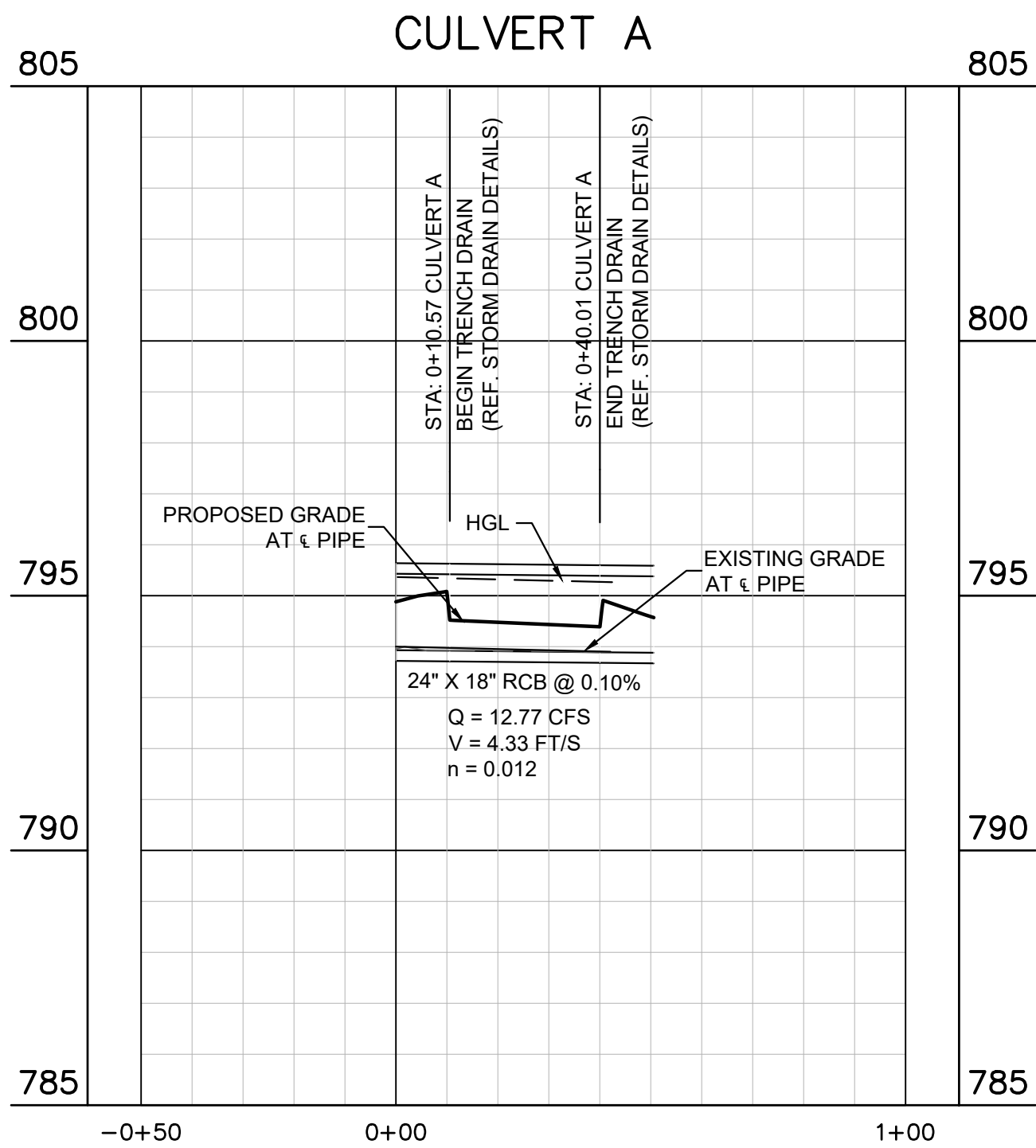
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| KHA PROJECT | DATE | SCALE | DESIGNED BY: | DRAWN BY: | CHECKED BY: |
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CULVERT PLAN AND PROFILES

CTT HEADQUARTERS COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER

17 OF 29



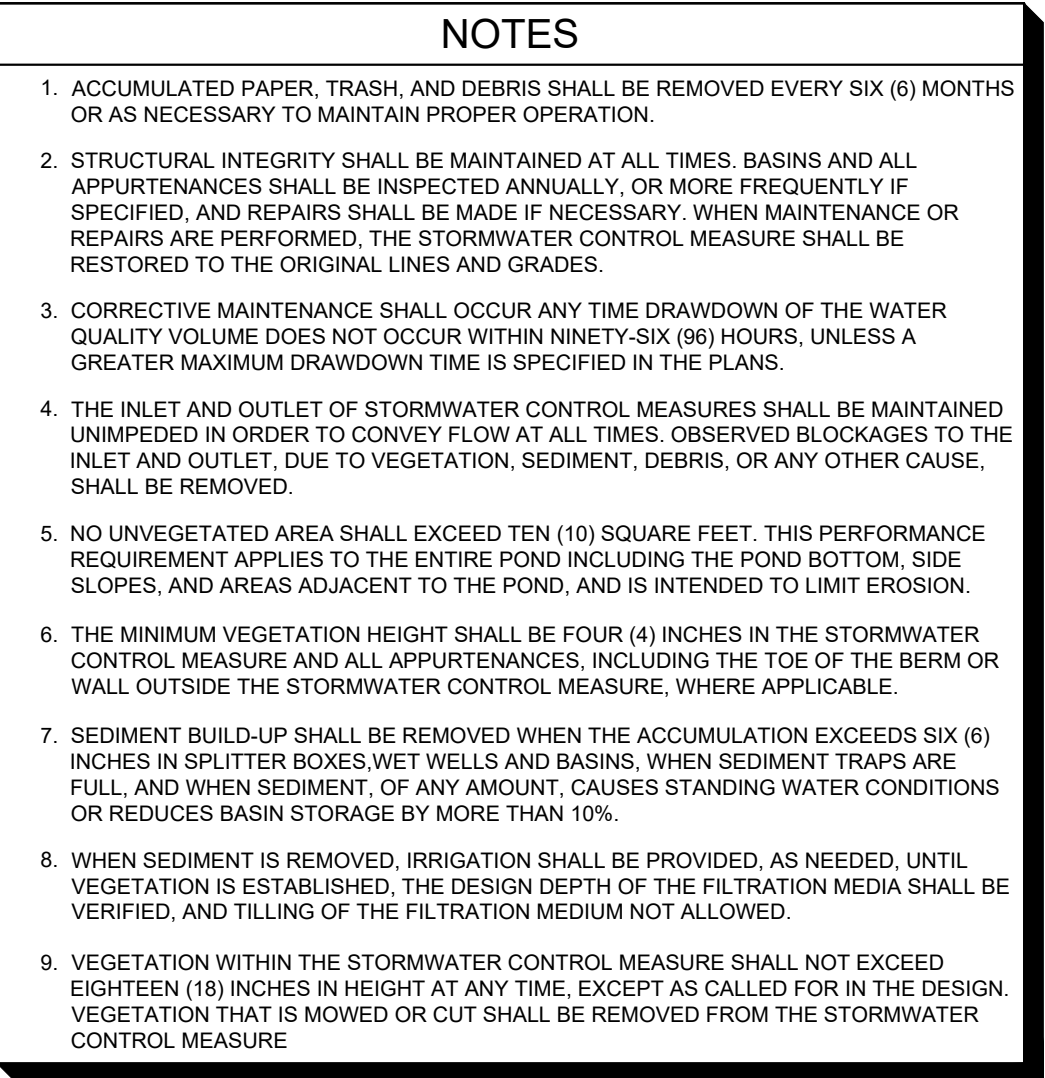
BENCHMARKS

- BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD. ELEV. = 796.880
- BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD. ELEV. = 796.850



Know what's below.
Call before you dig.

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



| Sedimentation Pond: | | | | |
|---------------------|-------|---------|---------|---------------|
| Stage | Depth | Area | Storage | Storage Cumm. |
| (FT MSL) | (FT) | (SF) | (CF) | (CF) |
| 786.00 | 0.00 | 913.01 | 0.00 | 0.00 |
| 786.77 | 0.77 | 1092.94 | 386.15 | 386.15 |
| 787.00 | 1.00 | 1162.69 | 259.40 | 645.54 |
| 788.00 | 2.00 | 1483.45 | 1323.07 | 1968.61 |
| 789.00 | 3.00 | 1832.49 | 1657.97 | 3626.58 |
| 789.50 | 3.50 | 2022.14 | 963.66 | 4590.24 |
| WQV | | | | |

| Filtration Pond: | | | | |
|------------------|-------|---------|---------|---------------|
| Stage | Depth | Area | Storage | Storage Cumm. |
| (FT MSL) | (FT) | (SF) | (CF) | (CF) |
| 785.90 | 0.00 | 1648.70 | 0.00 | 0.00 |
| 786.00 | 0.10 | 1695.26 | 167.20 | 167.20 |
| 787.00 | 1.10 | 2202.56 | 1948.91 | 2116.11 |
| 788.00 | 2.10 | 2742.49 | 2472.53 | 4588.63 |
| 789.00 | 3.10 | 3310.68 | 3026.59 | 7615.22 |
| 789.50 | 3.60 | 3609.90 | 1730.15 | 9345.36 |
| WQV | | | | |

| SPLITTER BOX BYPASS WEIR CALCULATIONS | |
|--|------------|
| ELEVATION OF SPLITTER WEIR | 789.50 MSL |
| TOP OF BOX ELEVATION = | 790.50 MSL |
| WEIR FLOW EQUATION: $Q = CLH^{3/2}$ | |
| WHERE: Q = 100-YR DEVELOPED FLOW (CFS) | |
| C = WEIR COEFFICIENT | |
| L = WIDTH OF WEIR (FT) | |
| H = DEPTH OF FLOW (FT) | |
| | |
| Q = 57.04 (CFS) | |
| C = 3.00 | |
| L = 25.0 (FT) | |
| H (REQUIRED) = | 0.83 |
| H (PROVIDED) = | 1.00 |

| FALLING HEAD ORIFICE CALCULATION | | |
|----------------------------------|---|-------------------------|
| SURFACE AREA (SF) | = | 2561.71 FT ² |
| ORIFICE COEFFICIENT | = | 0.6 |
| H1 (FT) | = | 3.60 FT |
| H2 (FT) | = | 0 FT |
| T (HRS) | = | 48 HR |
| A0 ORIFICE AREA (SF) | = | 0.01 FT ² |
| ORIFICE DIAMETER (IN) | = | 1.46 IN |

BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 795.650



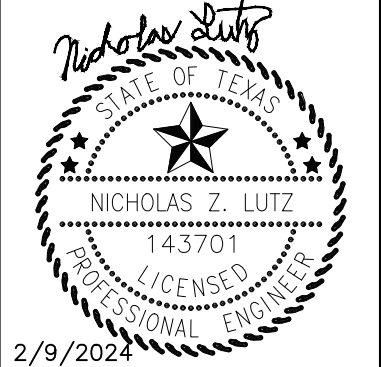
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| | |
|--|-----------------------|
| CTT HEADQUARTERS COMPLEX 15807 CROSSROADS DRIVE CITY OF AUSTIN WILLIAMSONCOUNTY, TEXAS | WATER QUALITY POND |
|--|-----------------------|

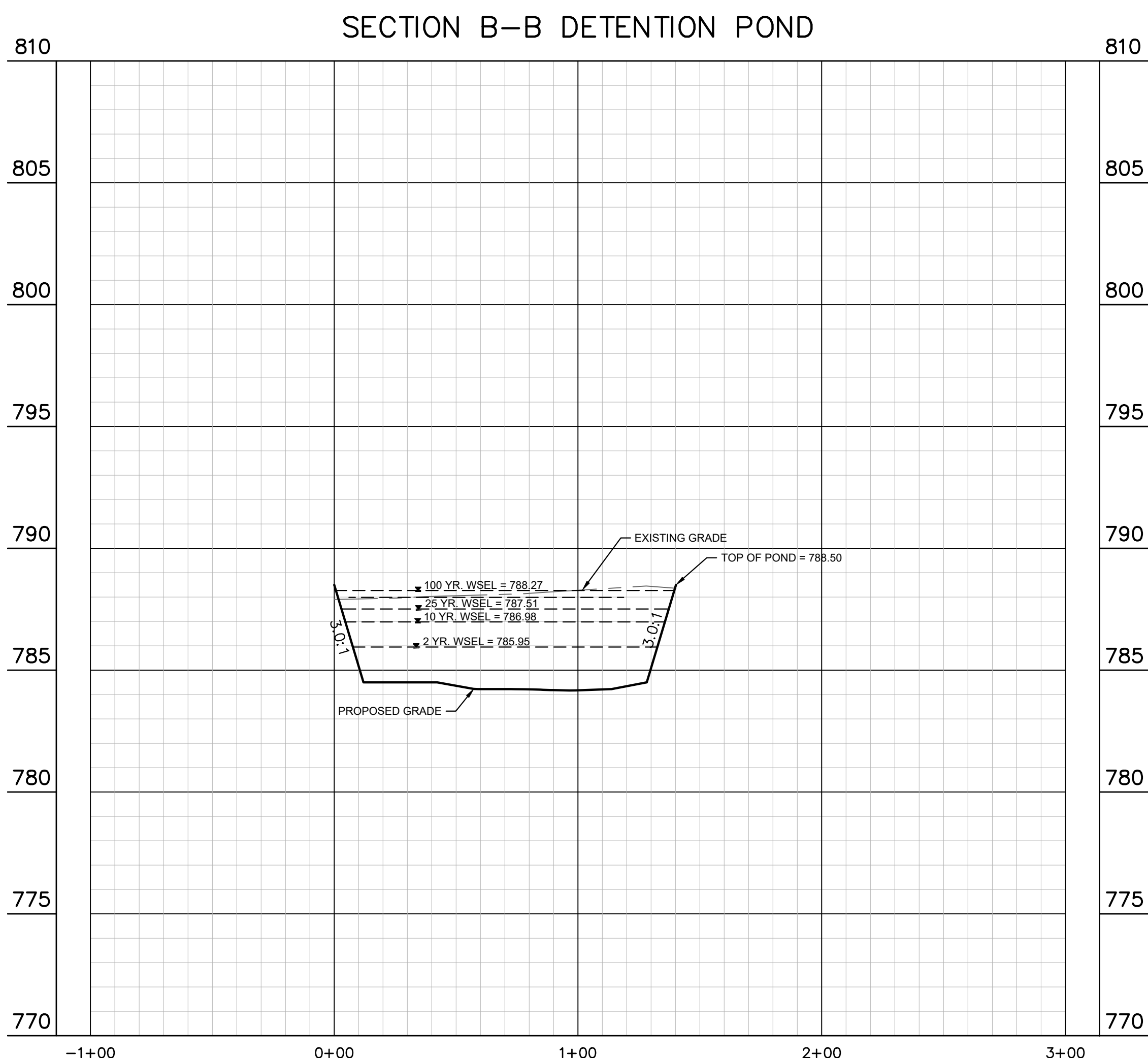
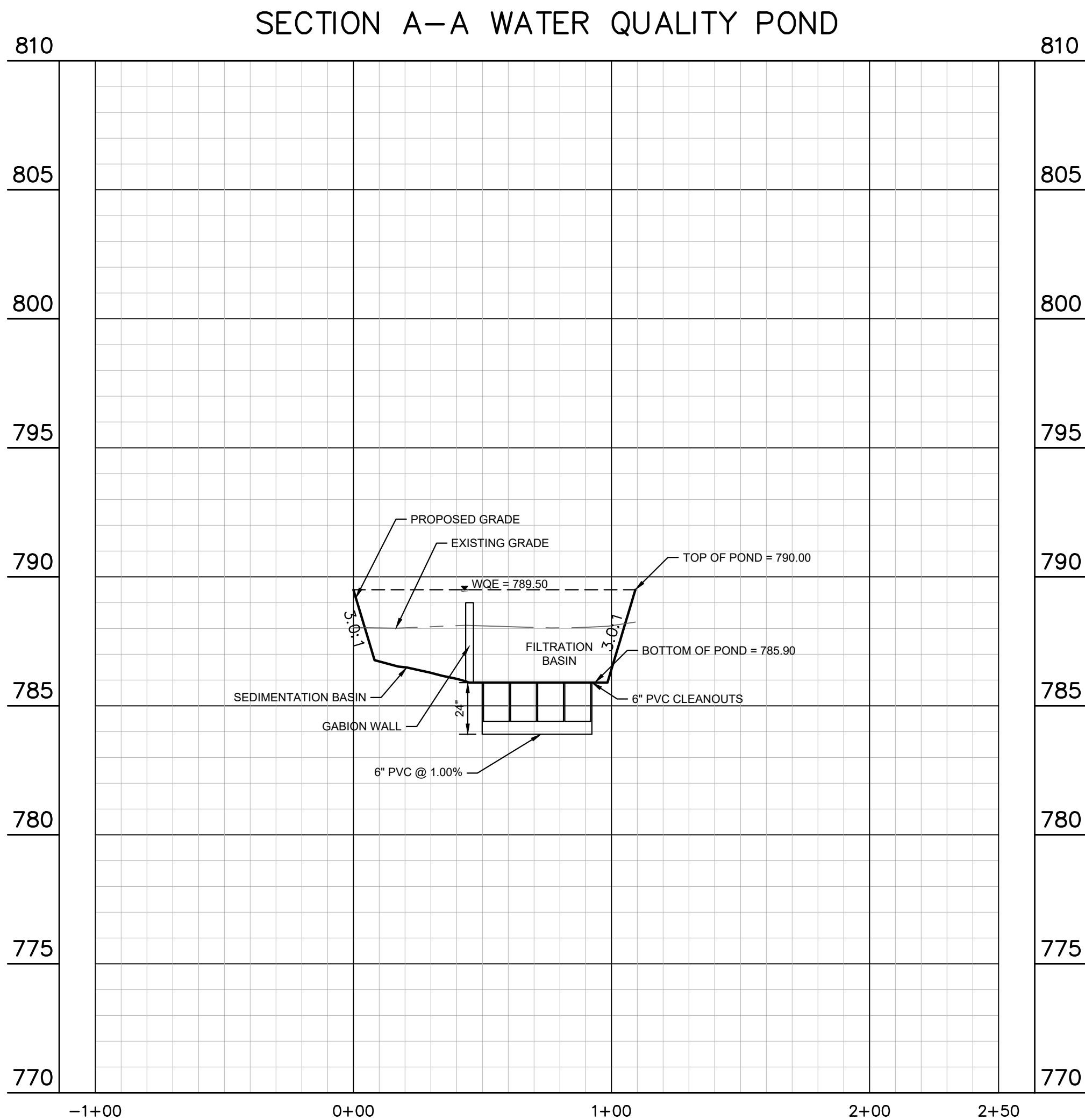
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|--------------------------|-----------------------|-----------------|------------------|---------------|-----------------|
| KHA PROJECT 064421404 | DATE FEBRUARY 2024 | SCALE: AS SHOWN | DESIGNED BY: NZL | DRAWN BY: ASH | CHECKED BY: NZL |
|--------------------------|-----------------------|-----------------|------------------|---------------|-----------------|

[illegible]

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PROFILE SCALE
1" = 40' HORIZONTAL
1" = 4' VERTICAL

BENCHMARKS

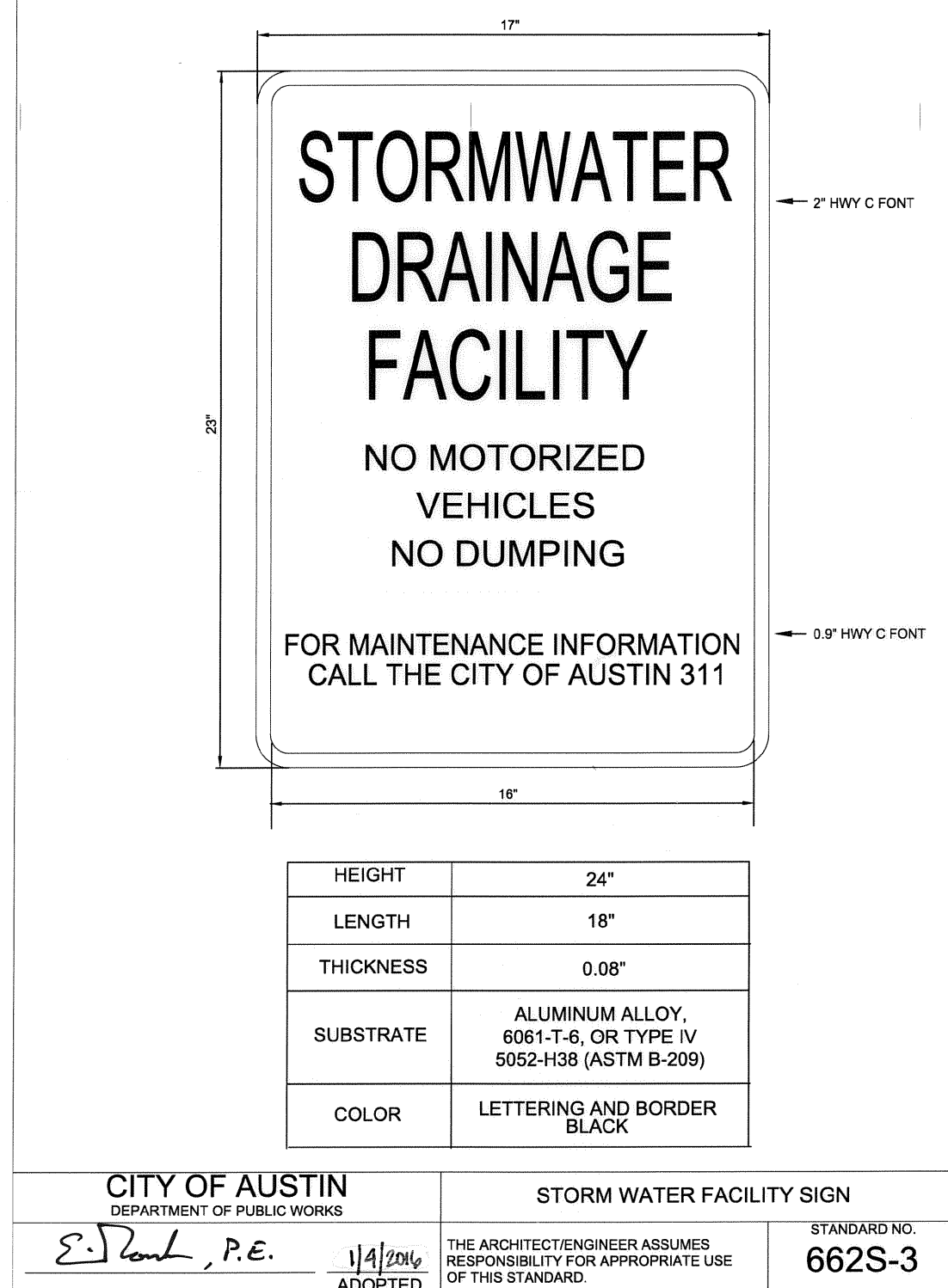
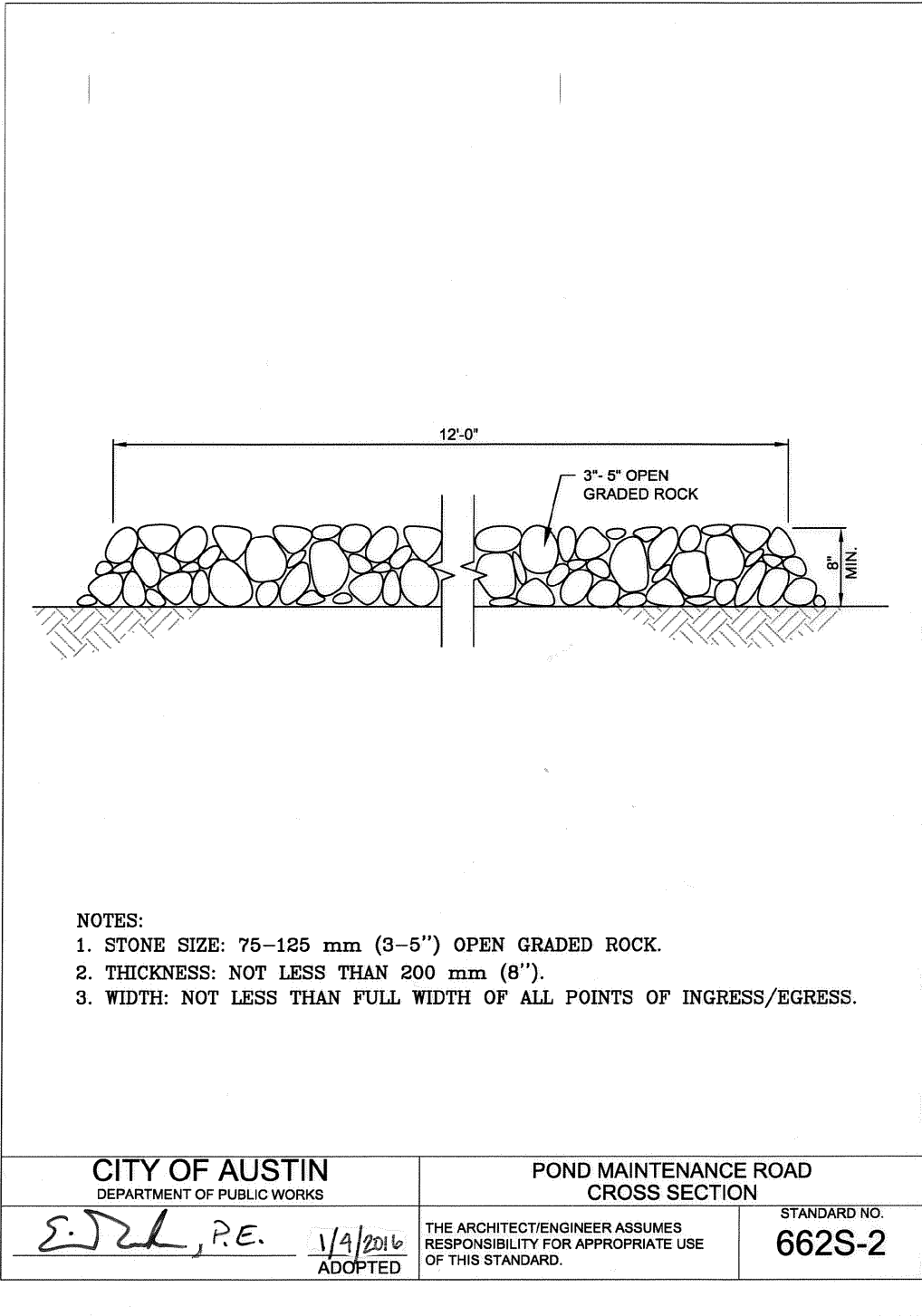
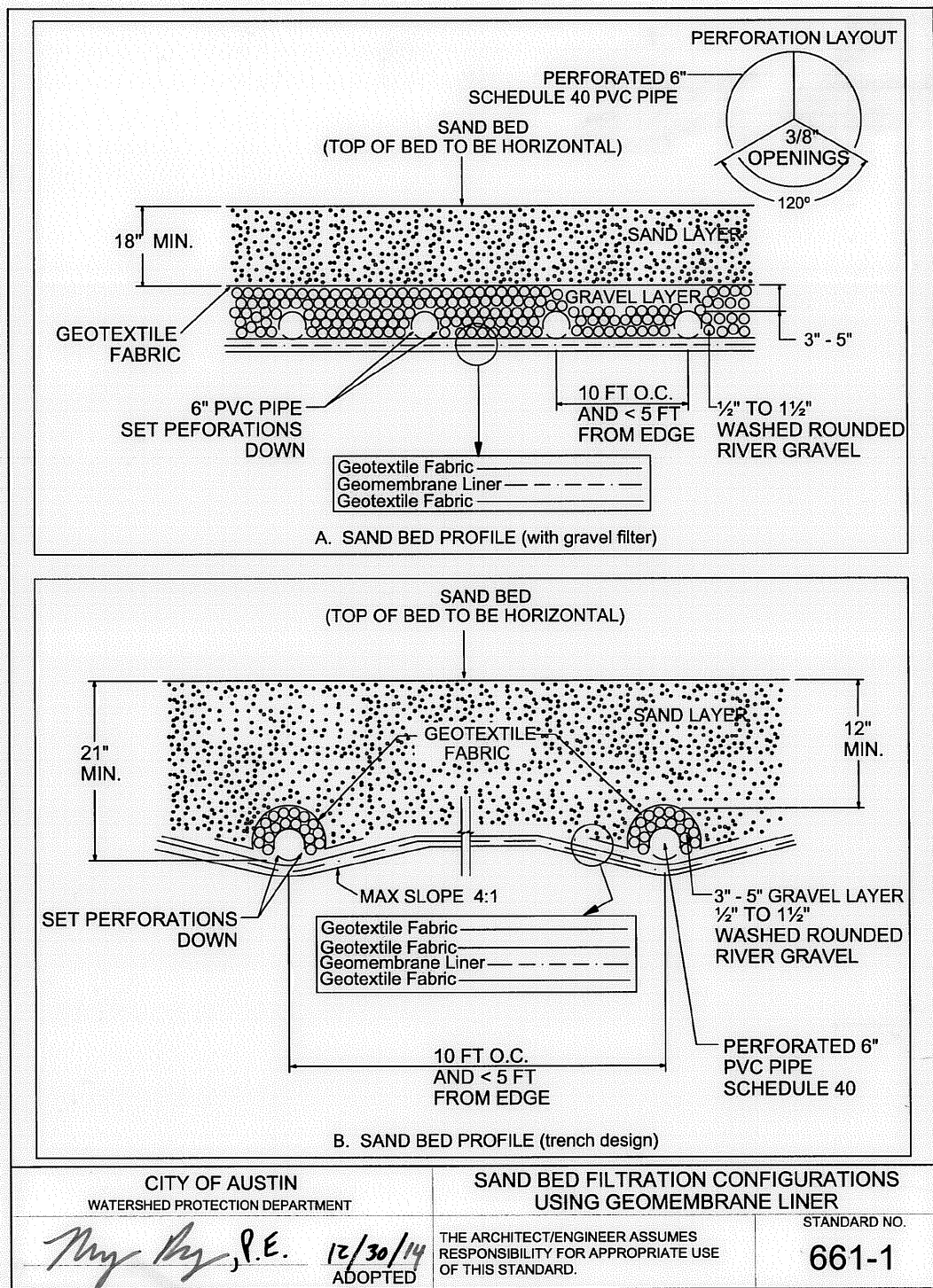
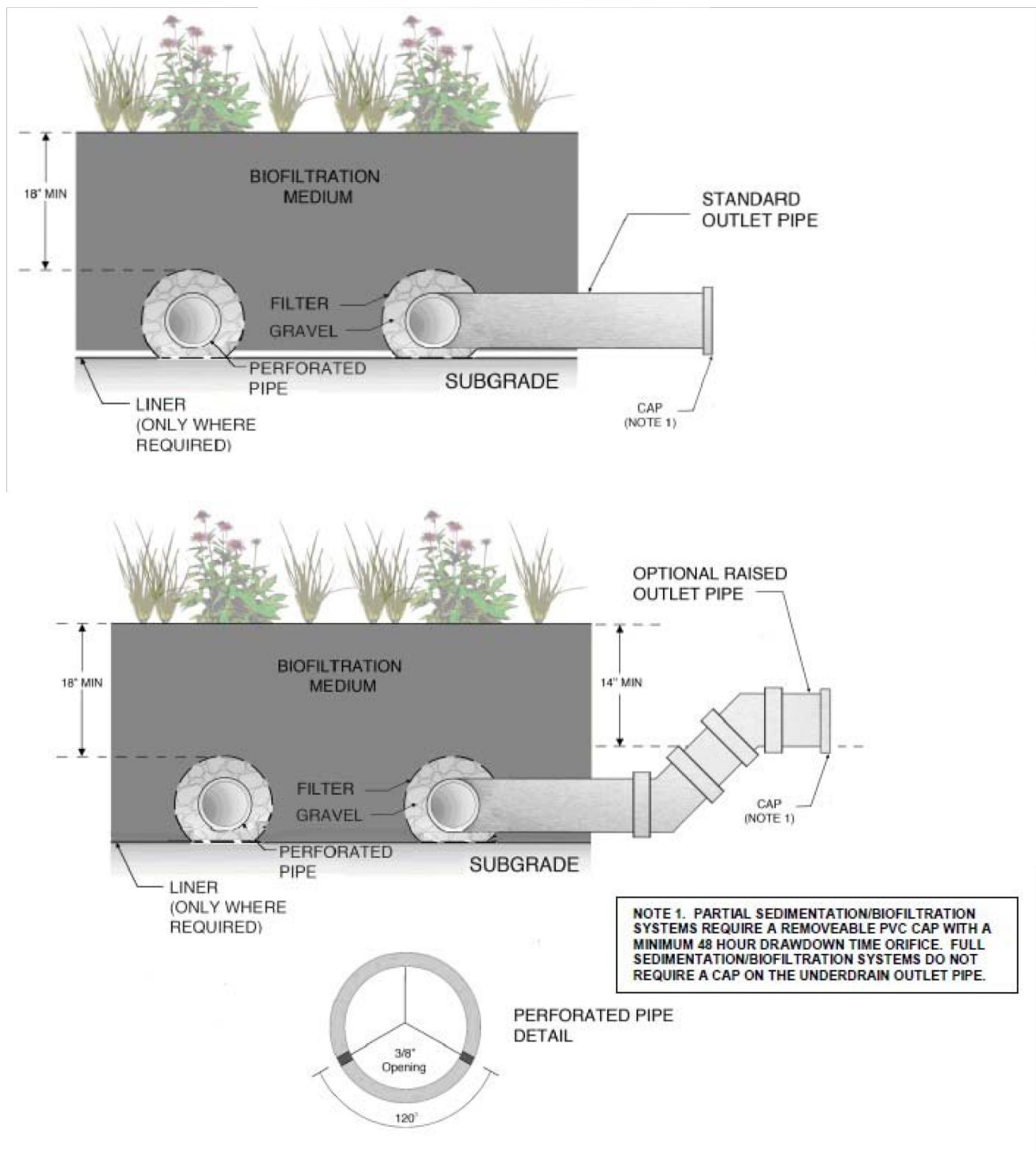
1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD.
ELEV. = 796.880

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ELEV. = 796.950



| | | | | | | | |
|---|---------------|--|--|--|-----|-----------|------|
| CTT HEADQUARTERS COMPLEX 15807 CROSSROADS DRIVE CITY OF AUSTIN WILLIAMSON COUNTY, TEXAS | POND PROFILES | KHA PROJECT 064421404 DATE FEBRUARY 2024 SCALE: AS SHOWN DESIGNED BY: NZL DRAWN BY: ASH CHECKED BY: NZL | | | No. | REVISIONS | BY |
| | | | | | | | DATE |
| SHEET NUMBER 20 OF 29 | | | | | | | |

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Texas Commission on Environmental Quality
TSS Removal Calculations 04-20-2009
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 indicates location of instructions in the Technical Guidance Manual - RD-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:
Page 3-20 Equation 3.3: $L_{d, req} = 27.2 A_{d, p} \times P$
where:
 $L_{d, req}$ = Required TSS removal resulting from the proposed development = 80% of increased load
 $A_{d, p}$ = Net increase in impervious area for the project
 P = Average annual precipitation, inches

Site Data: Determine Required Load Reduction based on the Entire Project
Total project area including impervious = 1.00 acres
Predevelopment impervious area within the limits of the plan = 0.00 acres
Total post-development impervious area within the limits of the plan = 1.00 acres
Total post-development impervious cover fraction = 1.00
 $L_{d, req}$ = 1919 lbs

2. Drainage Basin Parameters (This information should be provided for each basin):
Drainage Basin/Outlet Area No. = 1
Predevelopment impervious area within the limits of the plan = 0.00 acres
Post-development impervious area within the limits of the plan = 1.00 acres
Post-development impervious cover fraction = 1.00
 $L_{d, req}$ = 1919 lbs

3. Indicate the proposed BMP Code for this basin:
Proposed BMP = Sand Filter
Removal efficiency = 89 percent

4. Calculate Maximum TSS Load Removed due to this Drainage Basin by the selected BMP Type:
RD-348 Page 3-22 Equation 3.7: $L_{d, r} = (BMP \text{ efficiency}) \times P \times (A_{d, p} \times 24.6 + A_{d, n} \times 0.54)$
where:
 $A_{d, p}$ = Total On-site drainage area in the BMP catchment area
 $A_{d, n}$ = Impervious area not in the BMP catchment area
 $A_{d, r}$ = Perforated area remaining in the BMP catchment area
 $L_{d, r}$ = TSS Load removed from this catchment area by the proposed BMP
 $A_{d, p}$ = 1.00 acres
 $A_{d, n}$ = 0.00 acres
 $A_{d, r}$ = 0.00 acres
 $L_{d, r}$ = 1919 lbs

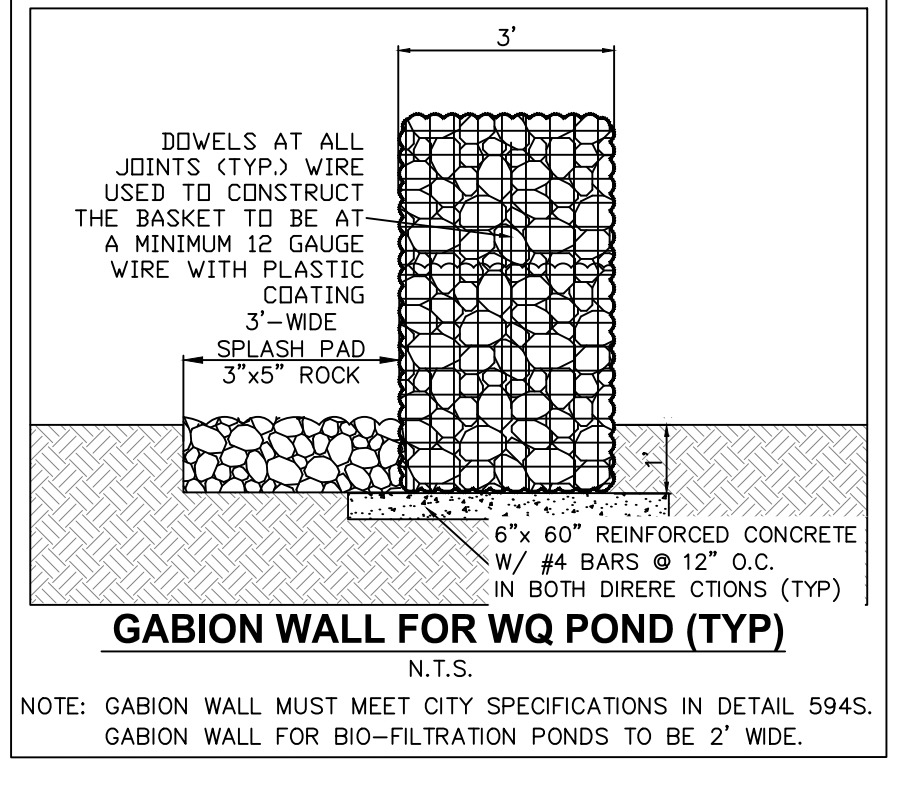
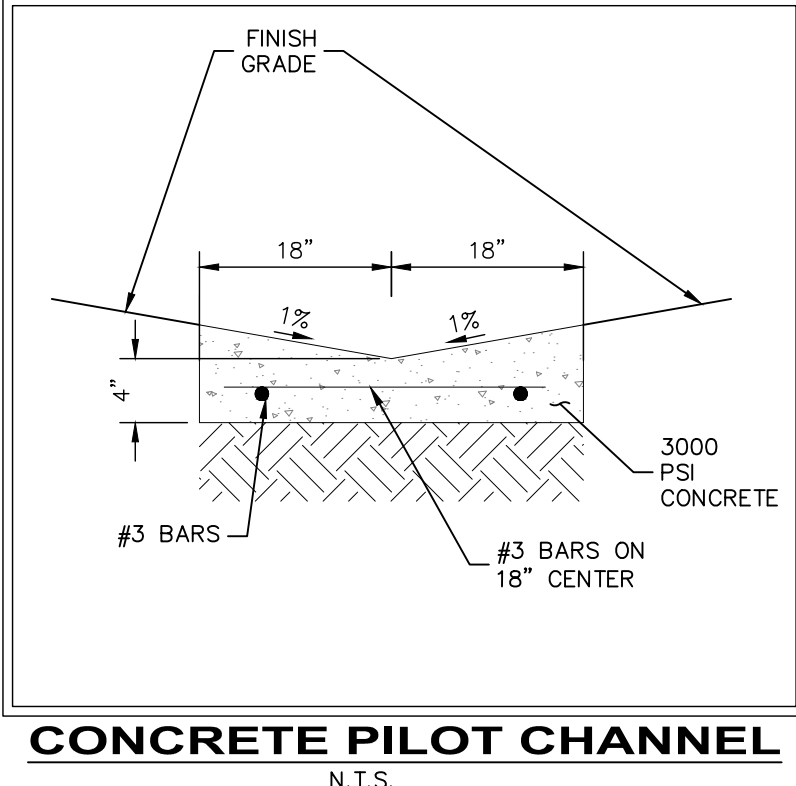
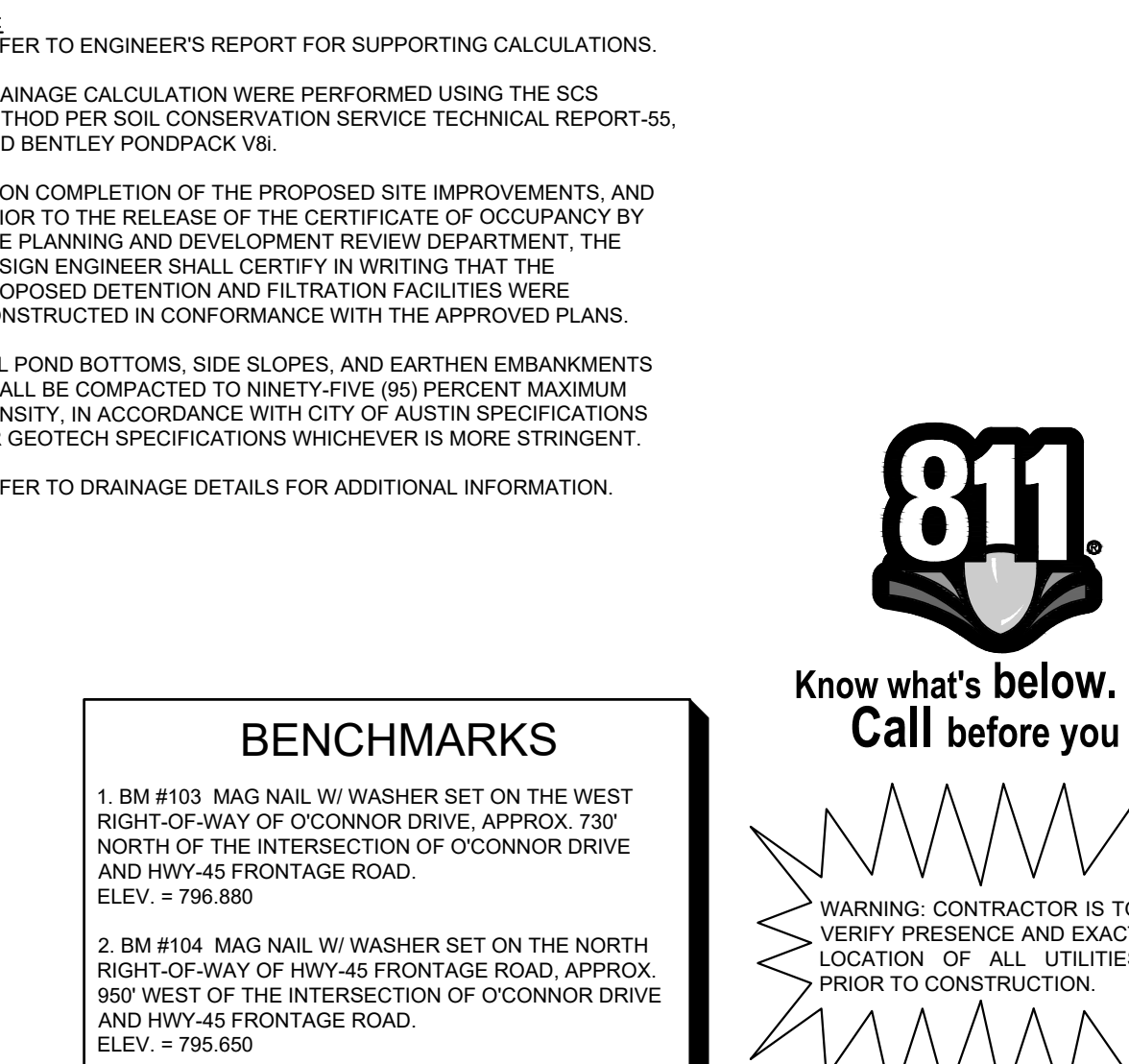
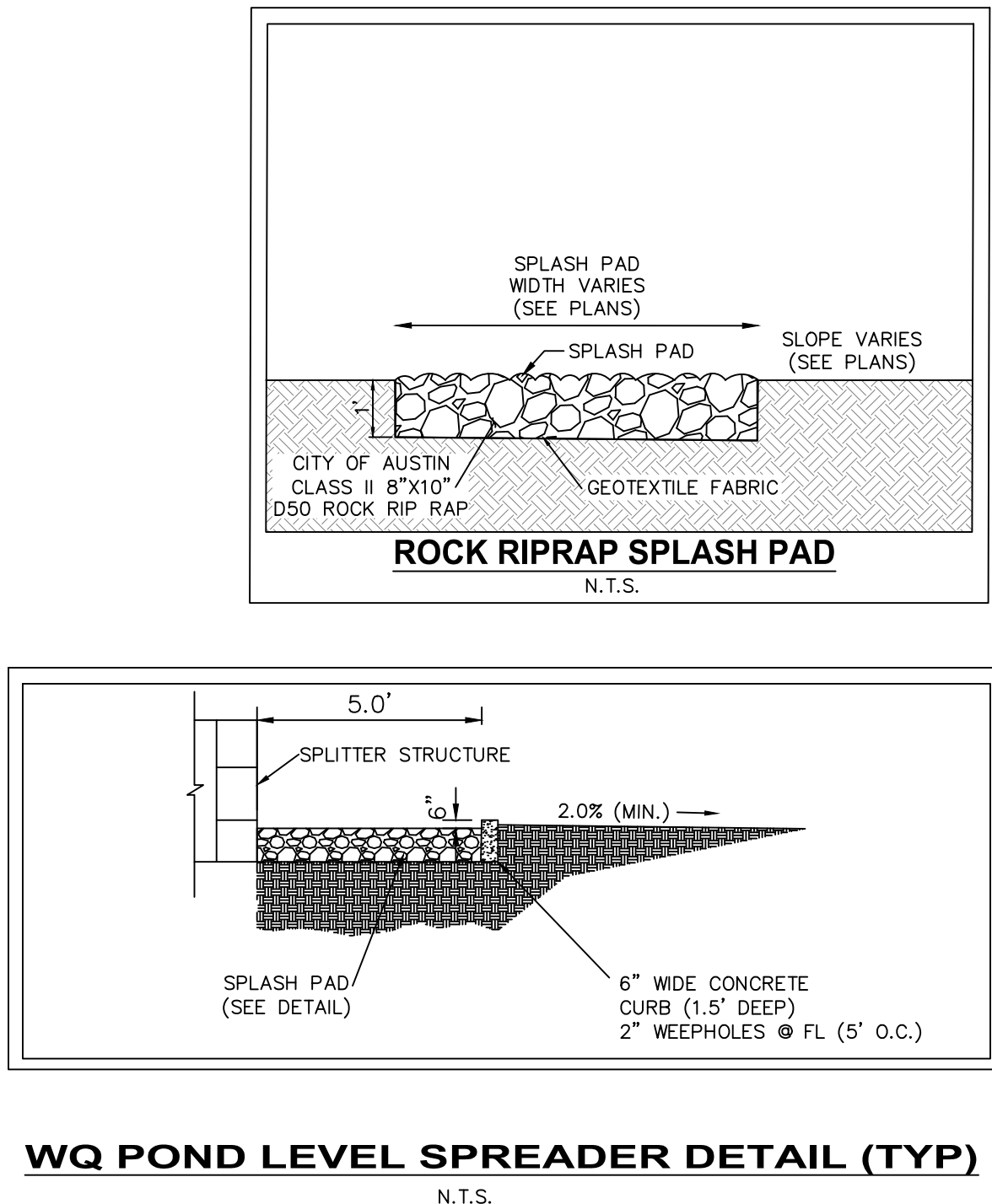
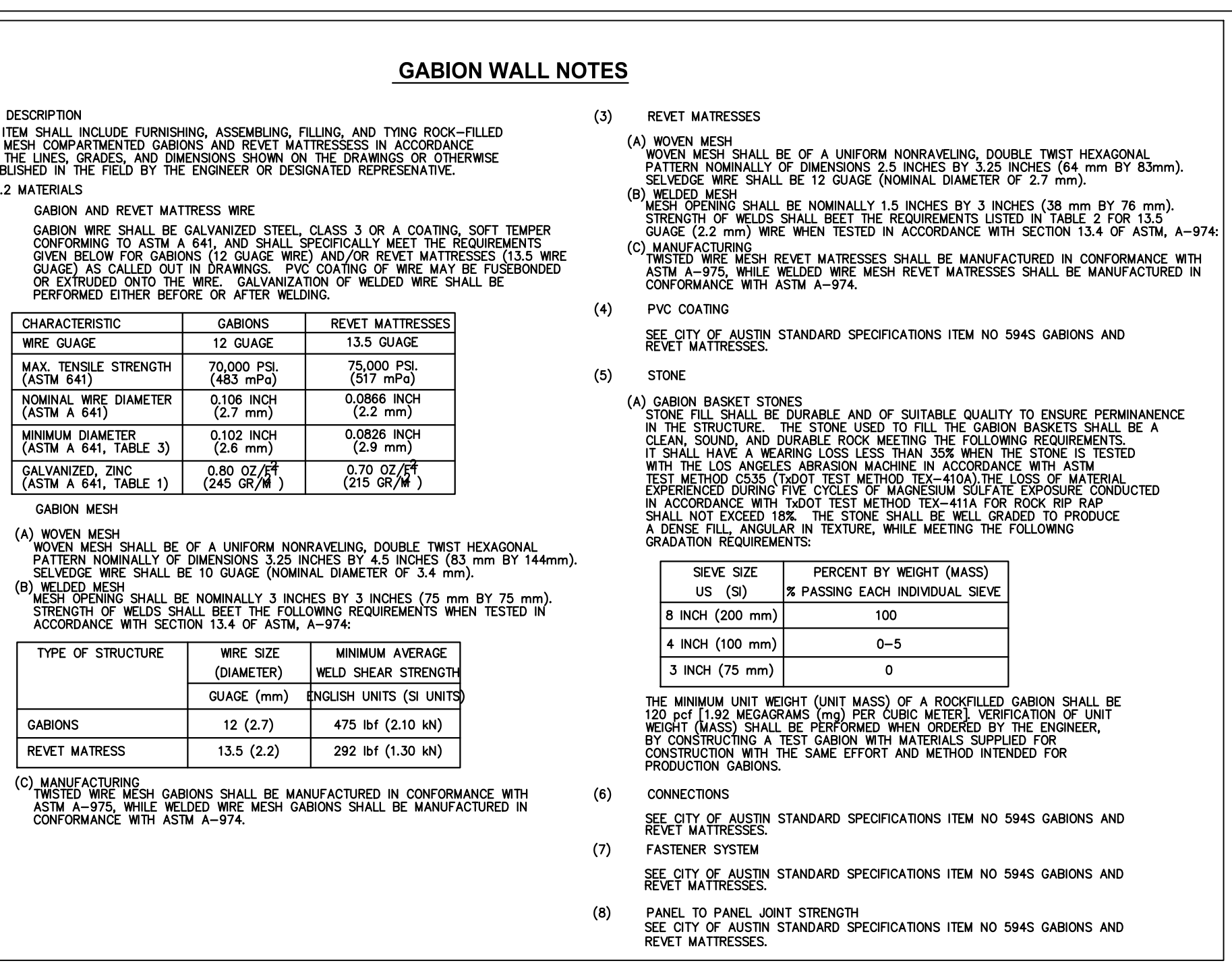
5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outlet area:
Desired $L_{d, r}$ volume = 1919 lbs
 F = 0.09

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outlet area:
Post Development Runoff Coefficient = 0.02
On-site Water Quality Volume = 907 cubic feet
Calculations from RD-348 Pages 3-36 to 3-37

7. Filter area for Sand Filter:
Designed as Required in RD-348 Pages 3-38 to 3-43
Water Quality Volume for sedimentation basin = 10887 cubic feet
Minimum filter basin area = 504 square feet
Maximum sedimentation basin area = 4336 square feet
Minimum sedimentation basin area = 1134 square feet
Off-site area draining to BMP = 0.00 acres
Off-site impervious area draining to BMP = 0.00 acres
Off-site runoff coefficient = 0.00
Off-site water quality volume = 0 cubic feet
Storage for Sediment = 1919 cubic feet
Total Capture Volume (required water quality volume) = 1206 cubic feet
The following sections are used to calculate the required water quality volume for the selected BMP. The values for BMP Types not selected in cell G45 will show 0.

8. Full Sedimentation and Filtration System:
Water Quality Volume for sedimentation basin = 10887 cubic feet
Minimum filter basin area = 504 square feet
Maximum sedimentation basin area = 4336 square feet
Minimum sedimentation basin area = 1134 square feet
Off-site area draining to BMP = 0.00 acres
Off-site impervious area draining to BMP = 0.00 acres
Off-site runoff coefficient = 0.00
Off-site water quality volume = 0 cubic feet
Storage for Sediment = 1919 cubic feet
Total Capture Volume (required water quality volume) = 1206 cubic feet
The following sections are used to calculate the required water quality volume for the selected BMP. The values for BMP Types not selected in cell G45 will show 0.

9. Partial Sedimentation and Filtration System:
Water Quality Volume for sedimentation basin = 10887 cubic feet
Minimum filter basin area = 504 square feet
Maximum sedimentation basin area = 4336 square feet
Minimum sedimentation basin area = 1134 square feet
Off-site area draining to BMP = 0.00 acres
Off-site impervious area draining to BMP = 0.00 acres
Off-site runoff coefficient = 0.00
Off-site water quality volume = 0 cubic feet
Storage for Sediment = 1919 cubic feet
Total Capture Volume (required water quality volume) = 1206 cubic feet
The following sections are used to calculate the required water quality volume for the selected BMP. The values for BMP Types not selected in cell G45 will show 0.



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CTT HEADQUARTERS
COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

SHEET NUMBER
21 OF 29

DATE
FEBRUARY 2024

SCALE: AS SHOWN

DESIGNED BY: NZL

DRAWN BY: ASH

CHECKED BY: NZL

2/9/2024

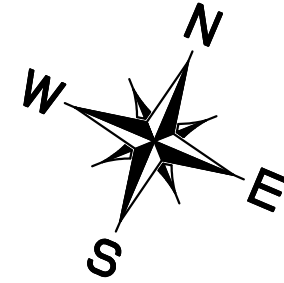
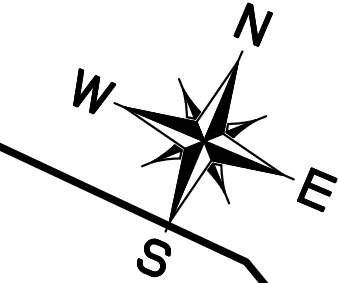
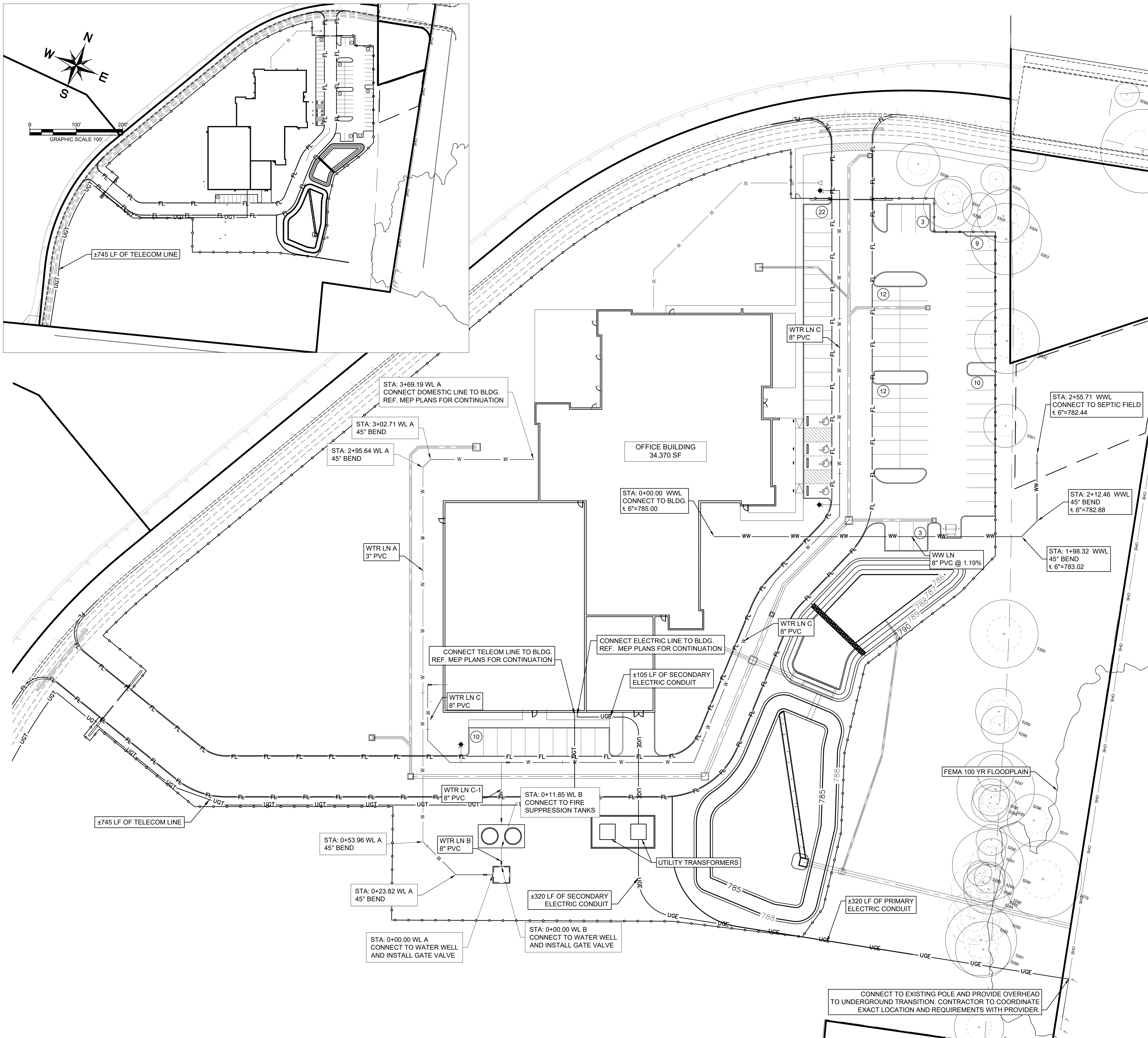
NICHOLAS Z. LUTZ
143701
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

REVISIONS

DATE

BY

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LEGEND

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| --- | PROPERTY LINE |
| --- XXX --- | EXISTING MAJOR CONTOUR |
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| --- | PROPOSED MAJOR CONTOUR |
| - - - - - XXX - - - - - | PROPOSED MINOR CONTOUR |
| --- | PROPOSED WATER LINE |
| ● | PROPOSED FIRE HYDRANT |
| --- | PROPOSED WASTEWATER LINE |
| ⊙ | PROPOSED WASTEWATER MANHOLE |
| ○ | PROPOSED WASTEWATER CLEANOUT |
| --- | PROPOSED STORM DRAIN LINE |
| □ | PROPOSED STORM DRAIN INLET |
| --- | EXISTING WATER LINE |
| --- | EXISTING WASTEWATER LINE |
| --- | EXISTING STORM DRAIN LINE |
| ● | EXISTING FIRE HYDRANT |
| ⊙ | EXISTING WASTEWATER MANHOLE |

NOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION AND THE FLOWLINES OF ALL EXISTING UTILITIES.
2. WATER & WASTEWATER SERVICE TO BE PROVIDED BY CITY OF AUSTIN.
3. CONTRACTOR TO COORDINATE WITH MEP PLANS AT ALL UTILITY STUBOUTS.
4. CONTRACTOR TO ENSURE NO FIRE HYDRANTS, METERS OR VALVES ARE PLACED IN SIDEWALKS.
5. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
6. REFER TO ENGINEER'S REPORT FOR SUPPORTING CALCULATIONS.
7. ALL MANHOLES LOCATED IN PAVEMENT ARE TO BE RAISED TO FINISHED GRADES.

BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD. ELEV. = 796.880

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COMPLEX
15807 CROSSROADS DRIVE
CITY OF AUSTIN
WILLIAMSON COUNTY, TEXAS

UTILITY PLAN

SHEET NUMBER
22 OF 29

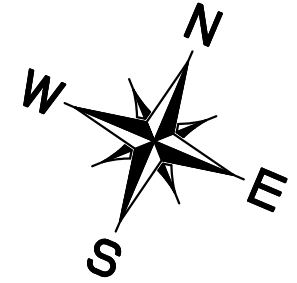
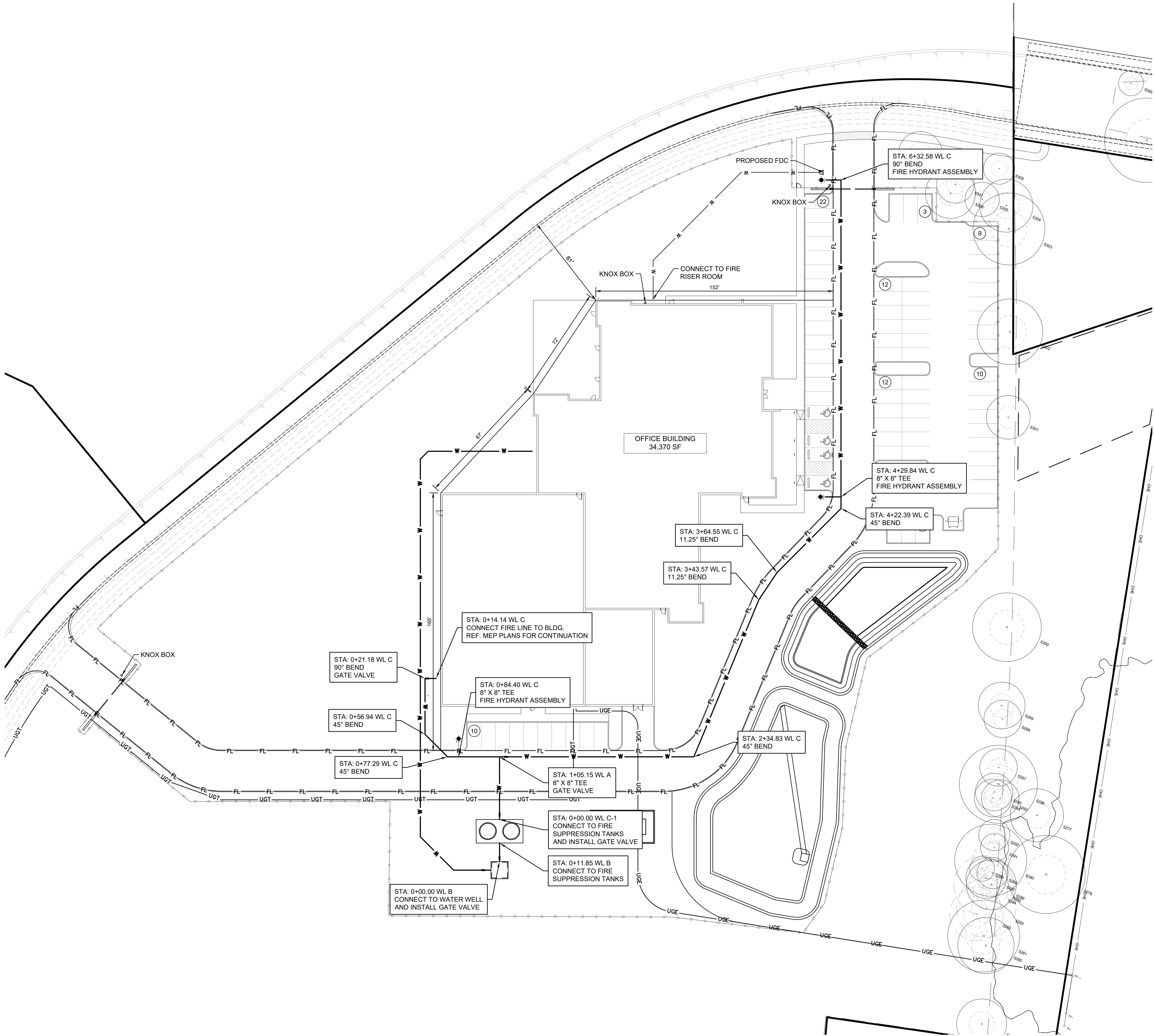
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LICENSED PROFESSIONAL ENGINEER

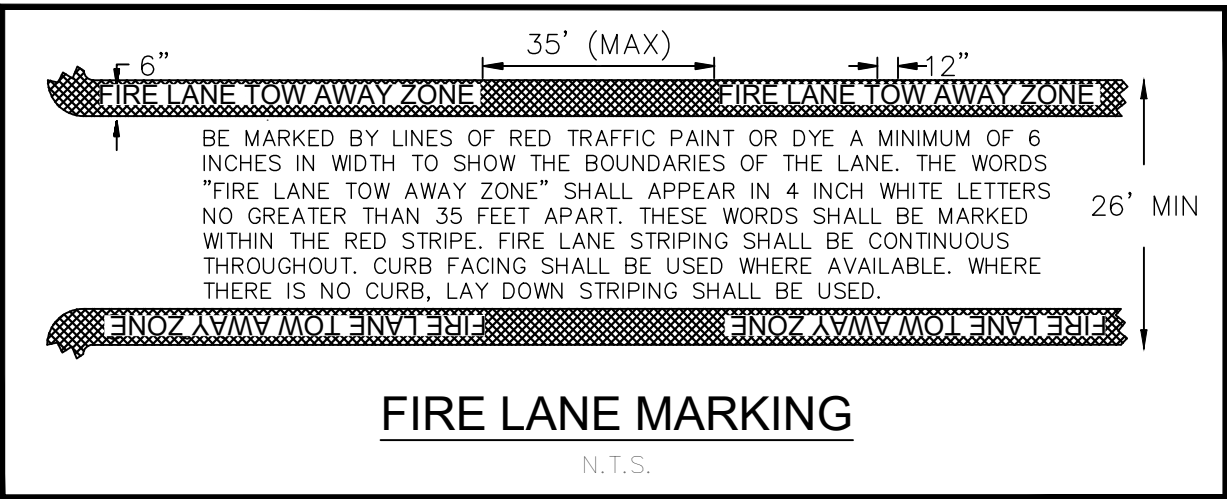
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| KHA PROJECT | 064421404 |
| DATE | FEBRUARY 2024 |
| SCALE: | AS SHOWN |
| DESIGNED BY: | NZL |
| DRAWN BY: | ASH |
| CHECKED BY: | NZL |

Plotted By: Hudson, Audrey Date: February 26, 2024 05:53:51pm File Path: K:\Users\civil\064421404 - ctt highway 45\Drawings\Sheets\VC - Fire Protection Plan.dwg
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| LEGEND | |
|---------|------------------------------------|
| — W — | EXISTING WATER LINE |
| — G — | EXISTING GAS LINE |
| — UGE — | EXISTING UNDERGROUND ELECTRIC LINE |
| — FL — | PROPOSED FIRE LANE STRIPING |
| — W — | PROPOSED WATER VALVE |
| — FL — | PROPOSED FIRE LANE STRIPING |



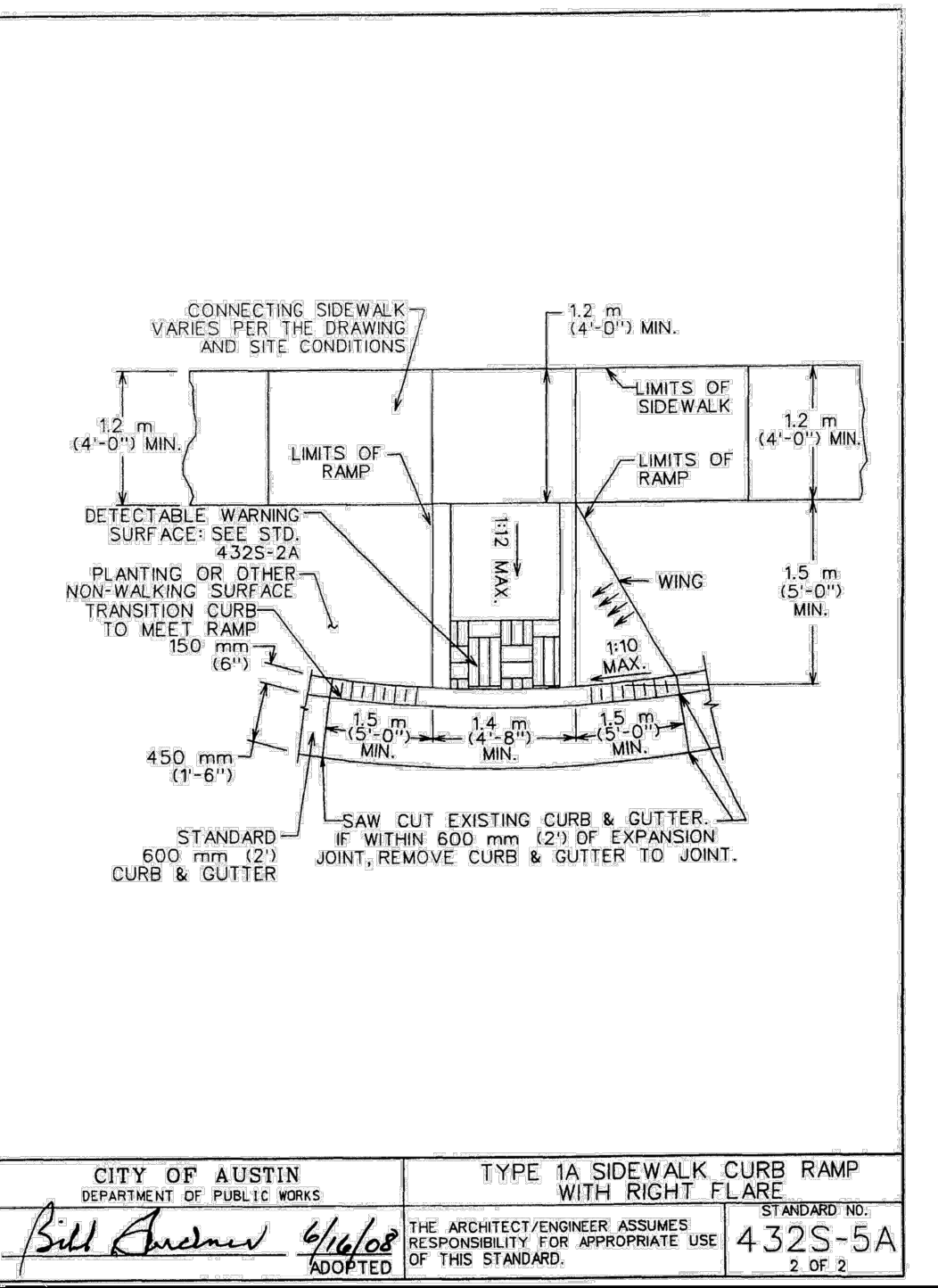
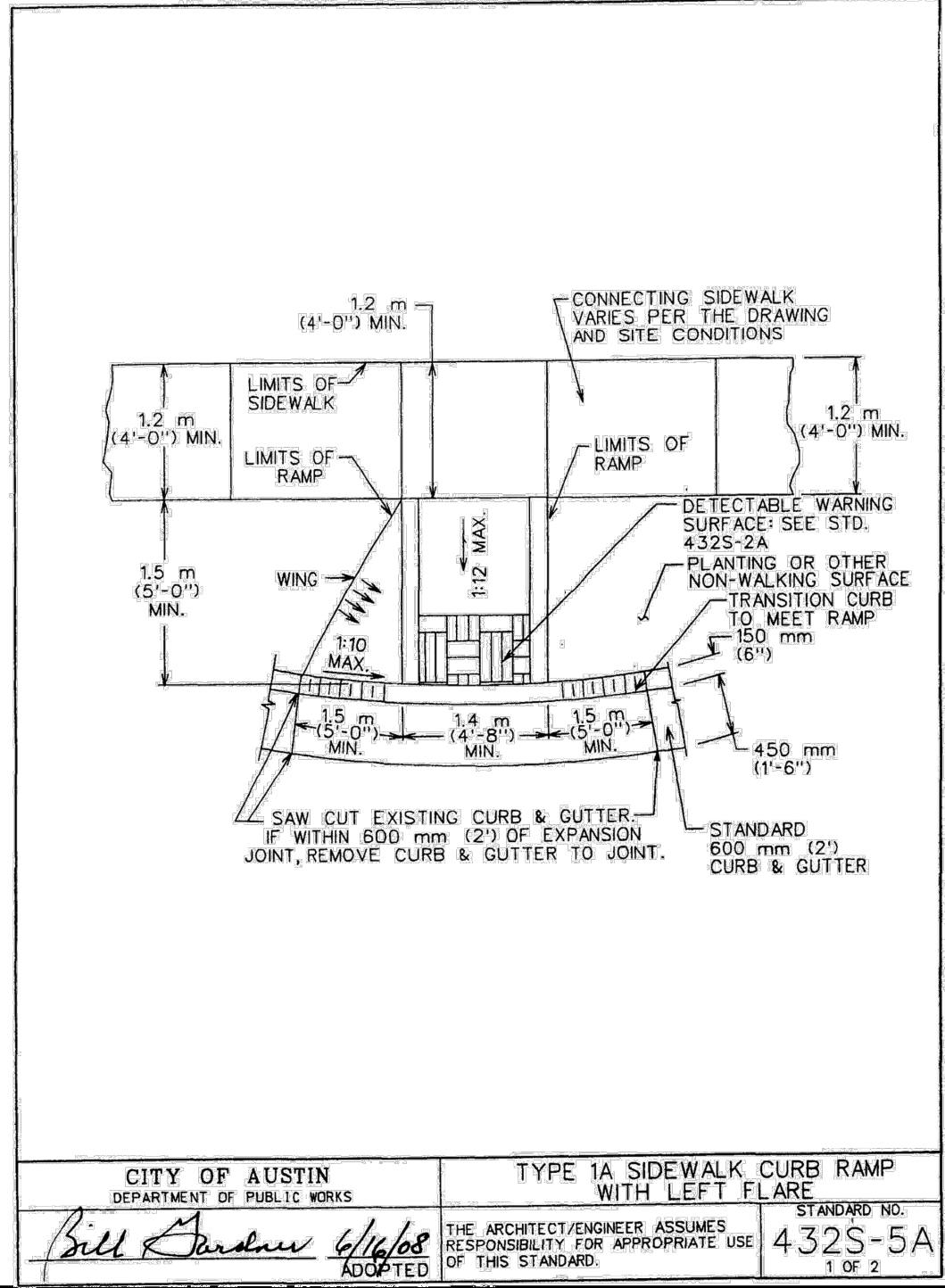
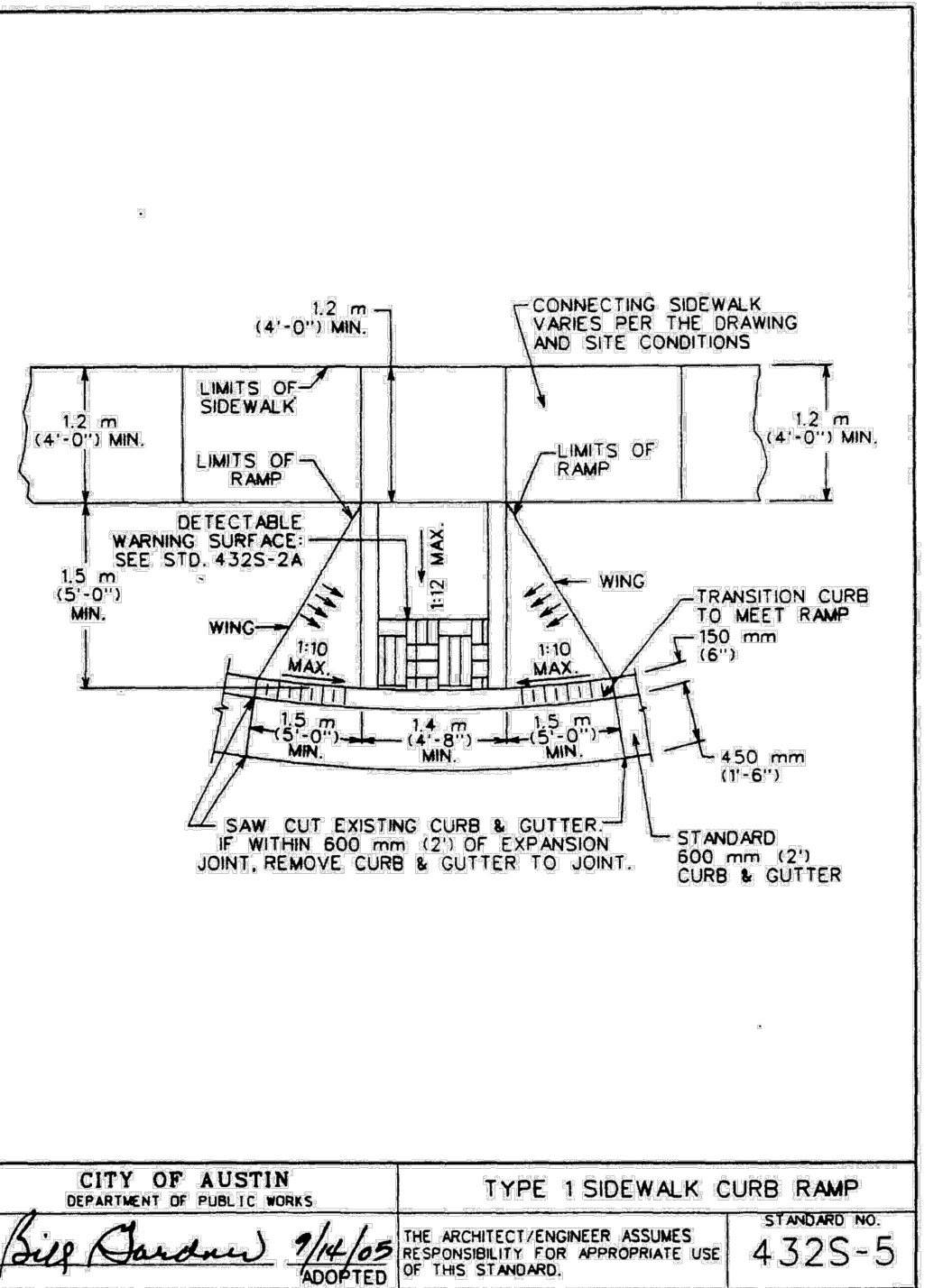
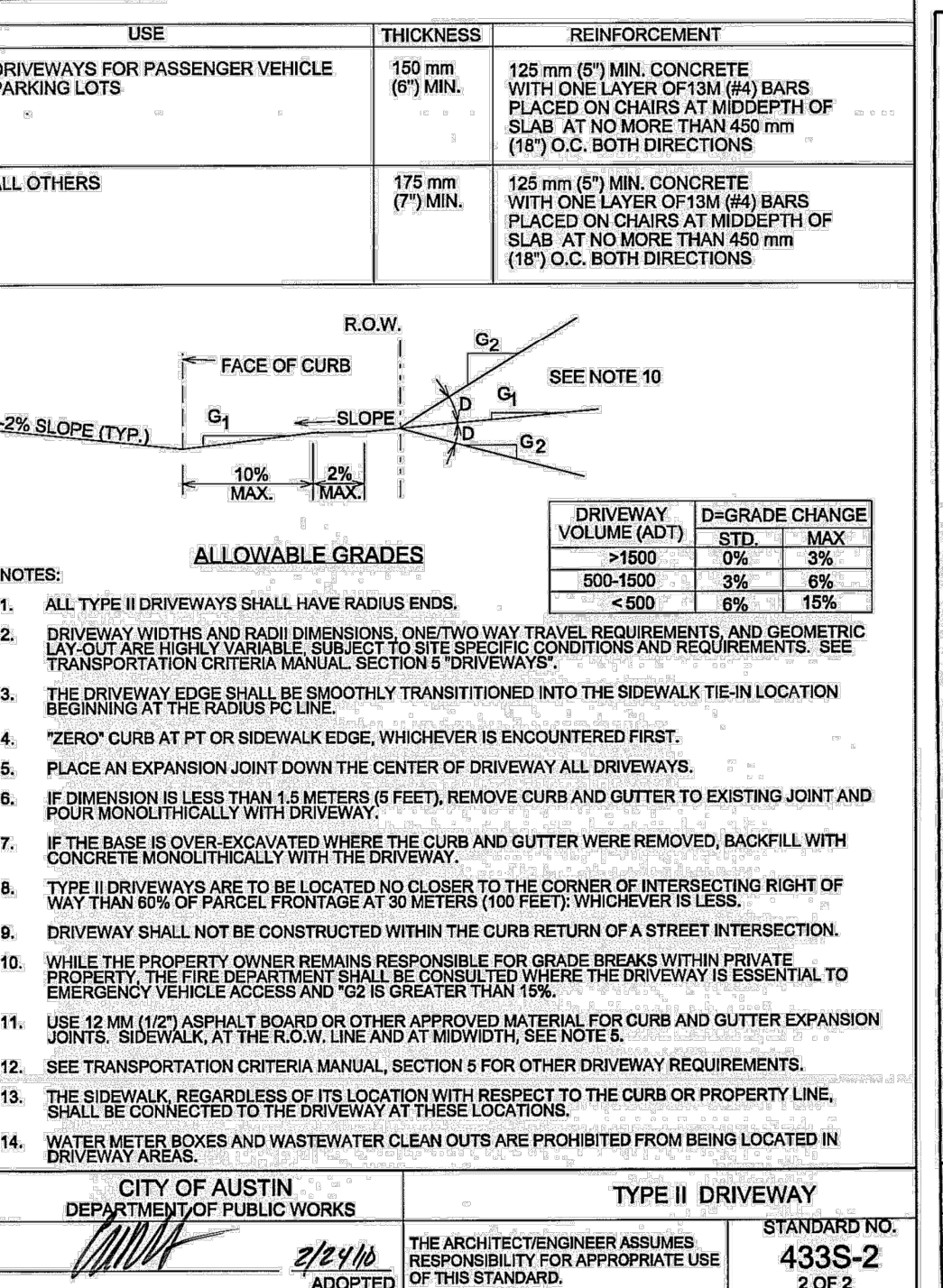
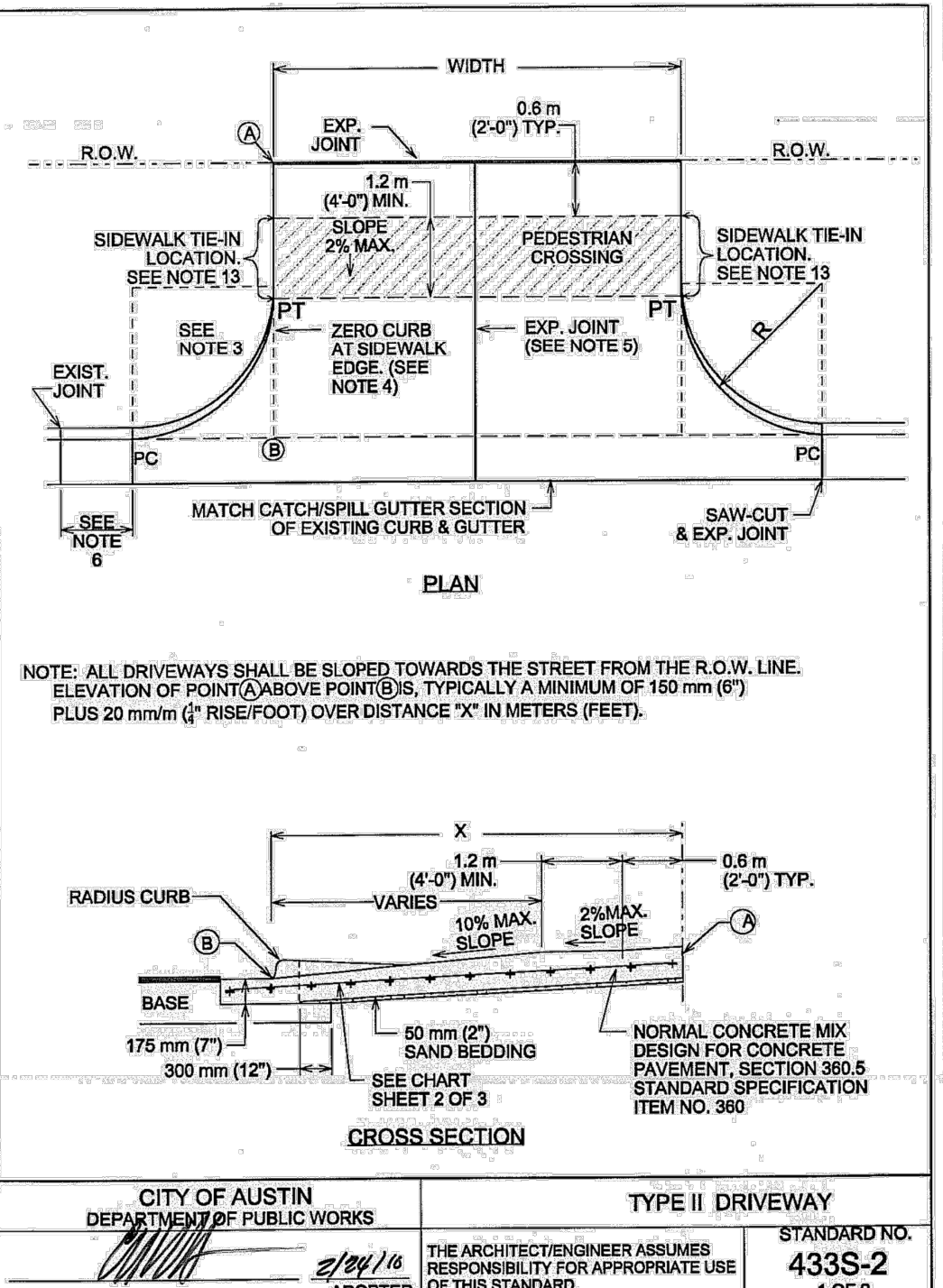
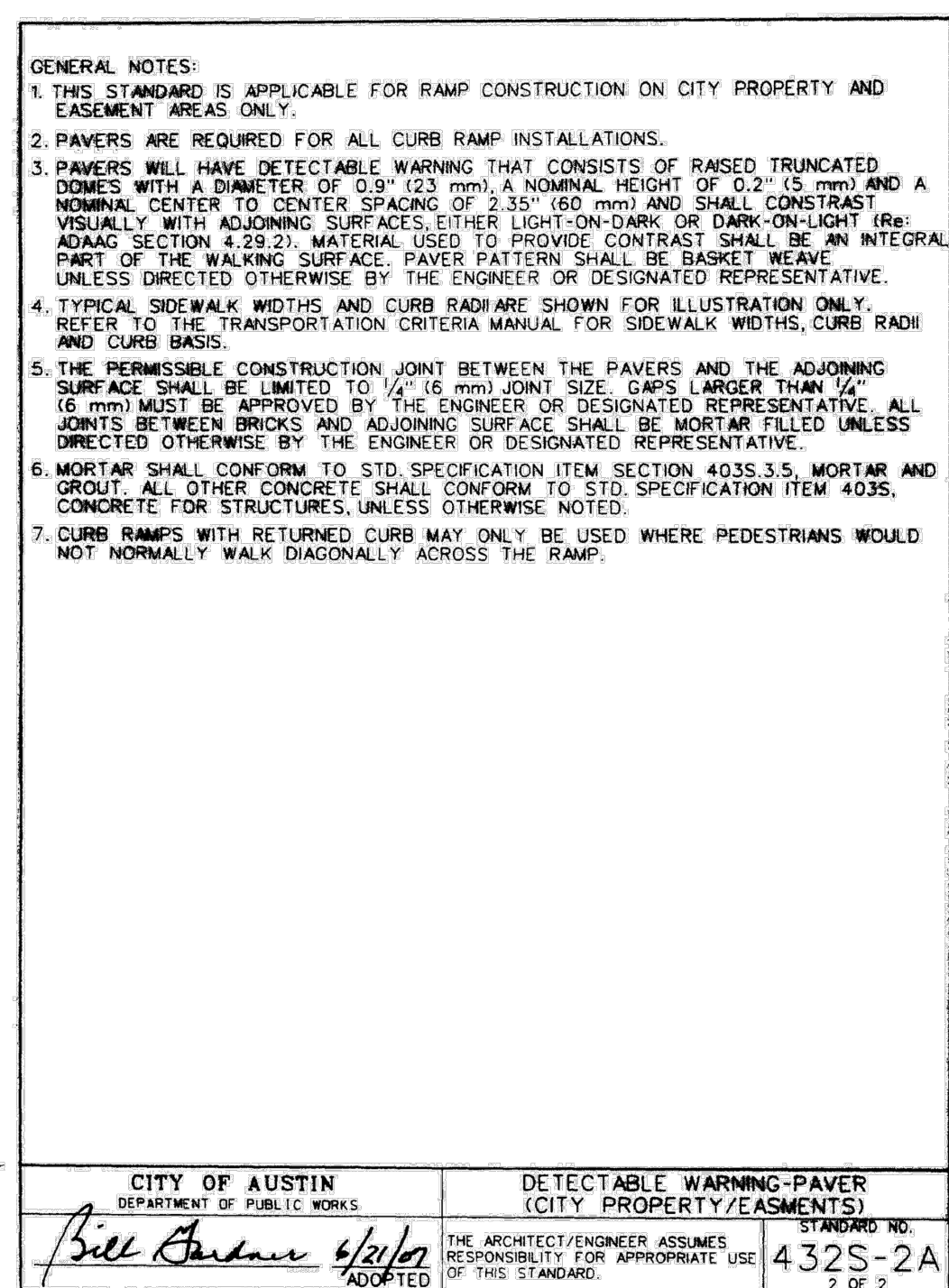
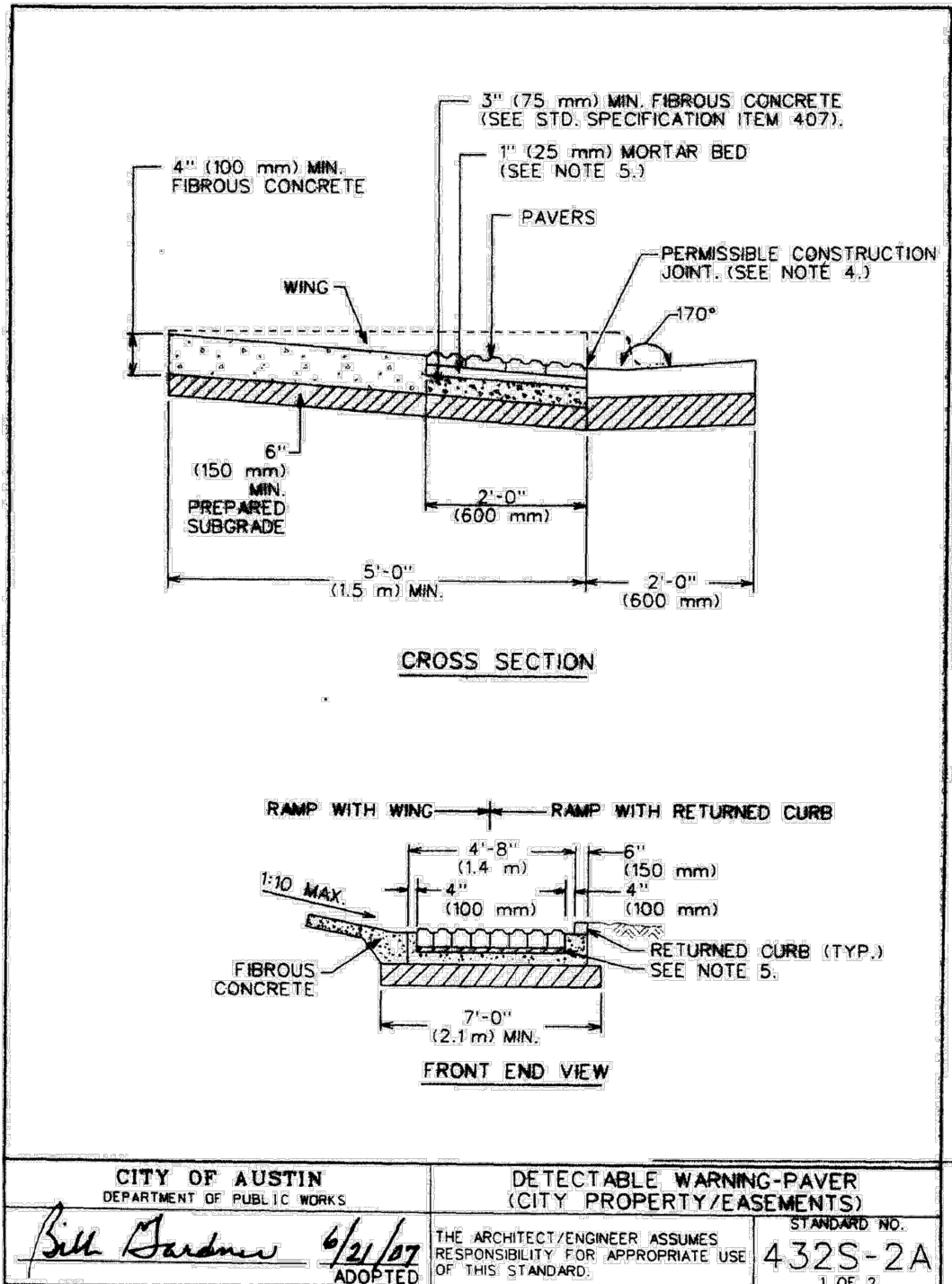
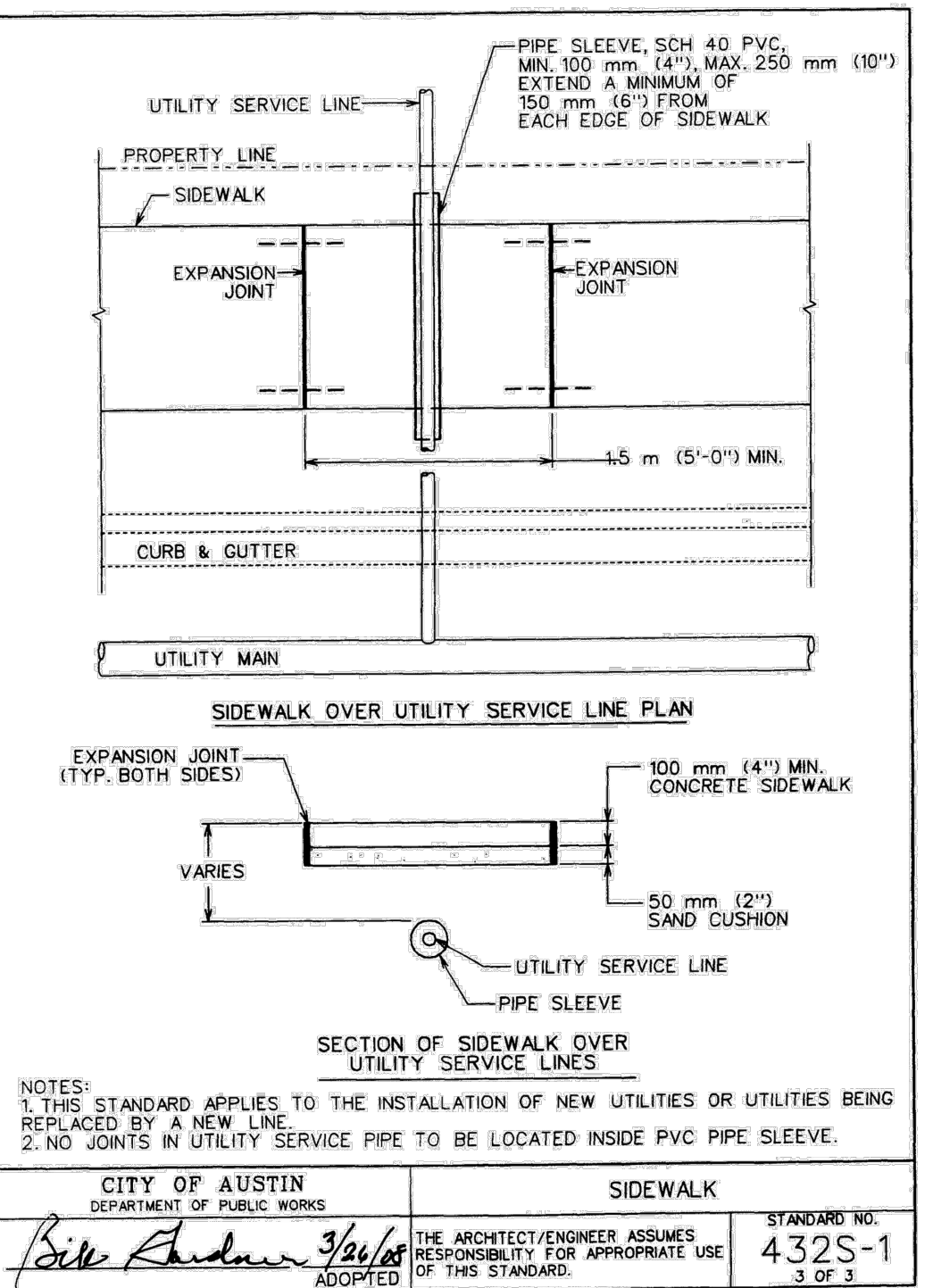
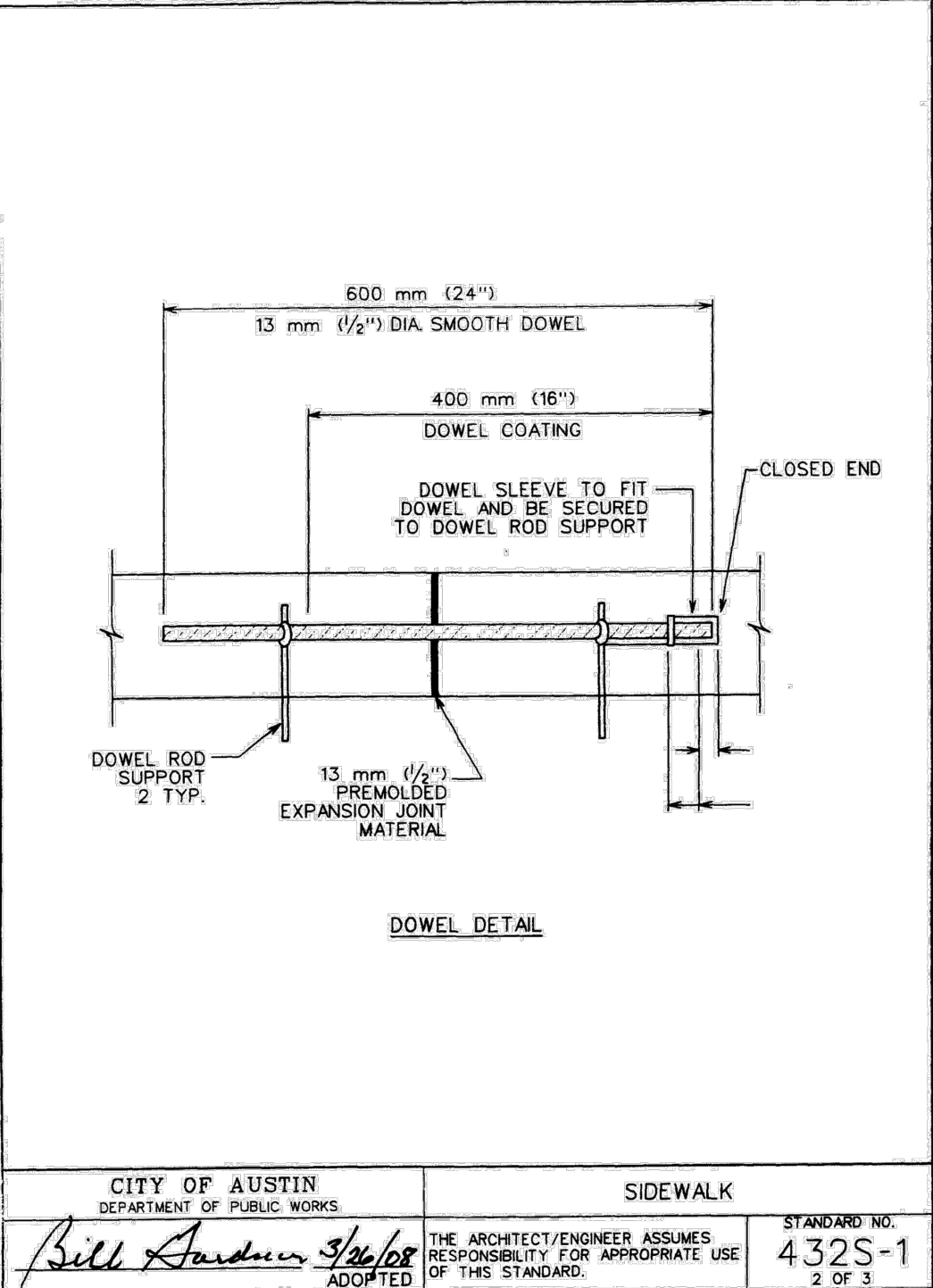
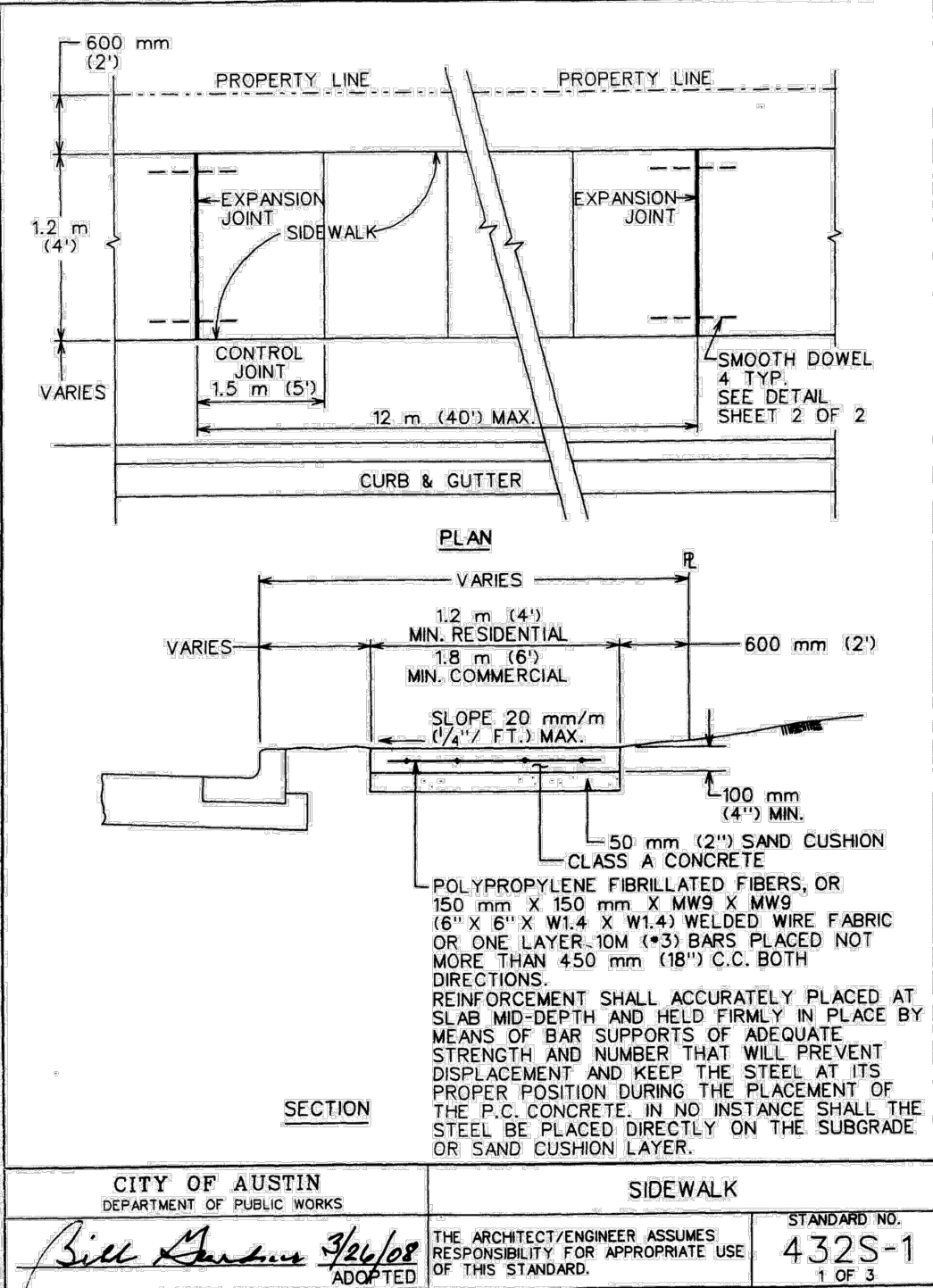
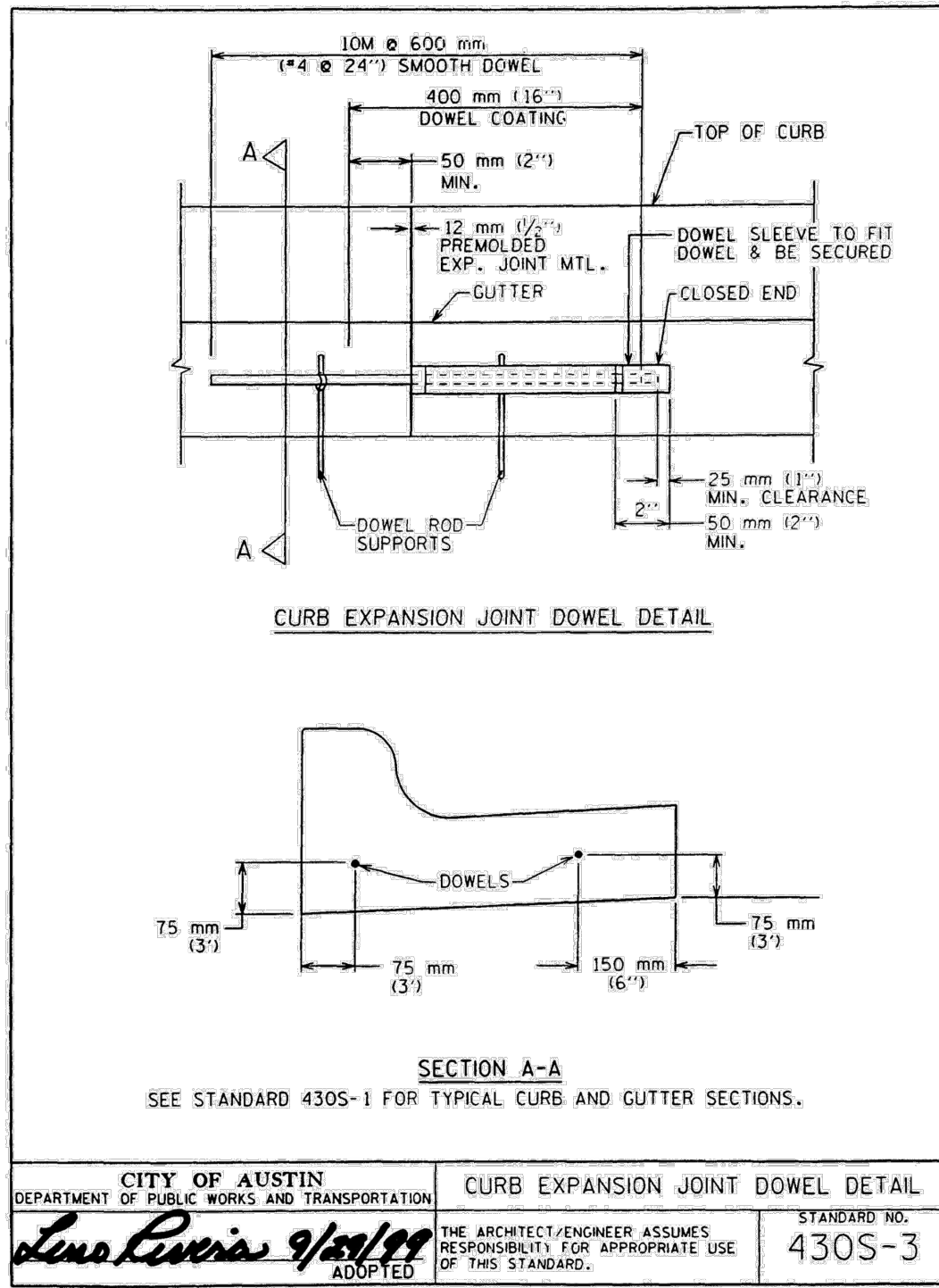
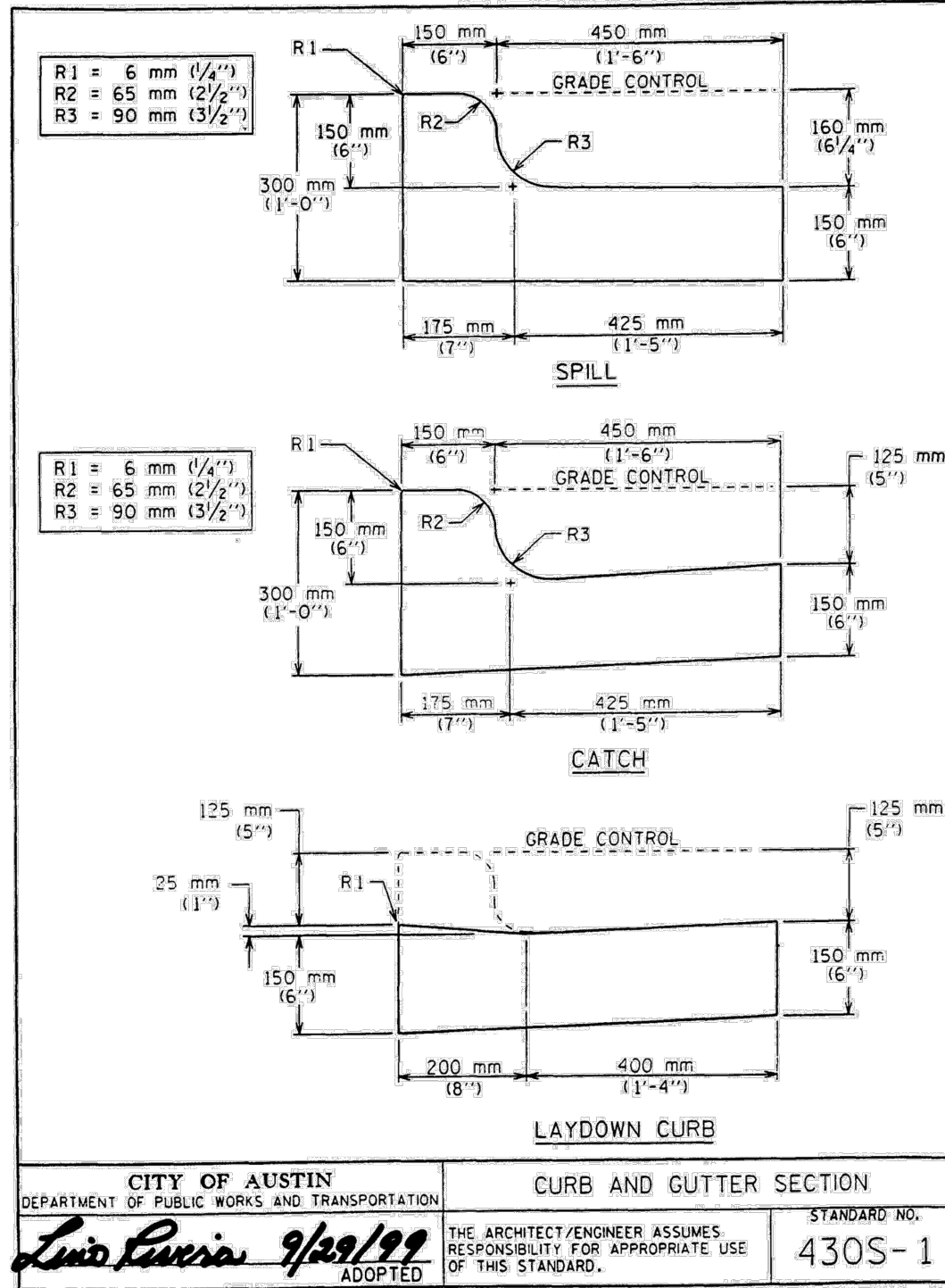
| BENCHMARKS | |
|--|--|
| 1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY 45 FRONTAGE ROAD. ELEV. = 796.880 | |
| 2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY 45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY 45 FRONTAGE ROAD. ELEV. = 796.850 | |



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|--|--|--|-------------------|--|-----------------|---|
| KHA PROJECT 064421404 | | DATE FEBRUARY 2024 | SCALE AS SHOWN | DESIGNED BY NZL | DRAWN BY ASH | CHECKED BY NZL |
| KIMLEY-HORN | | 10814 JOLLYVILLE ROAD AVALON IV SUITE 200 AUSTIN, TX 78759 | | PHONE: 512-418-7791 FAX: 512-418-7791 | | © 2023 KIMLEY-HORN AND ASSOCIATES, INC. TPPE Firm No. 928 |
| NICHOLAS Z. LUTZ 143701 LICENSED PROFESSIONAL ENGINEER | | 2/9/2024 | | NICHOLAS Z. LUTZ 143701 LICENSED PROFESSIONAL ENGINEER | | |
| FIRE PROTECTION PLAN | | CTT HEADQUARTERS COMPLEX 15807 CROSSROADS DRIVE CITY OF AUSTIN WILLIAMSON COUNTY, TEXAS | | SHEET NUMBER 23 OF 29 | | REVISIONS No. |
| | | | | | | DATE BY |

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DRAWN BY: ASH
CHECKED BY: NZL

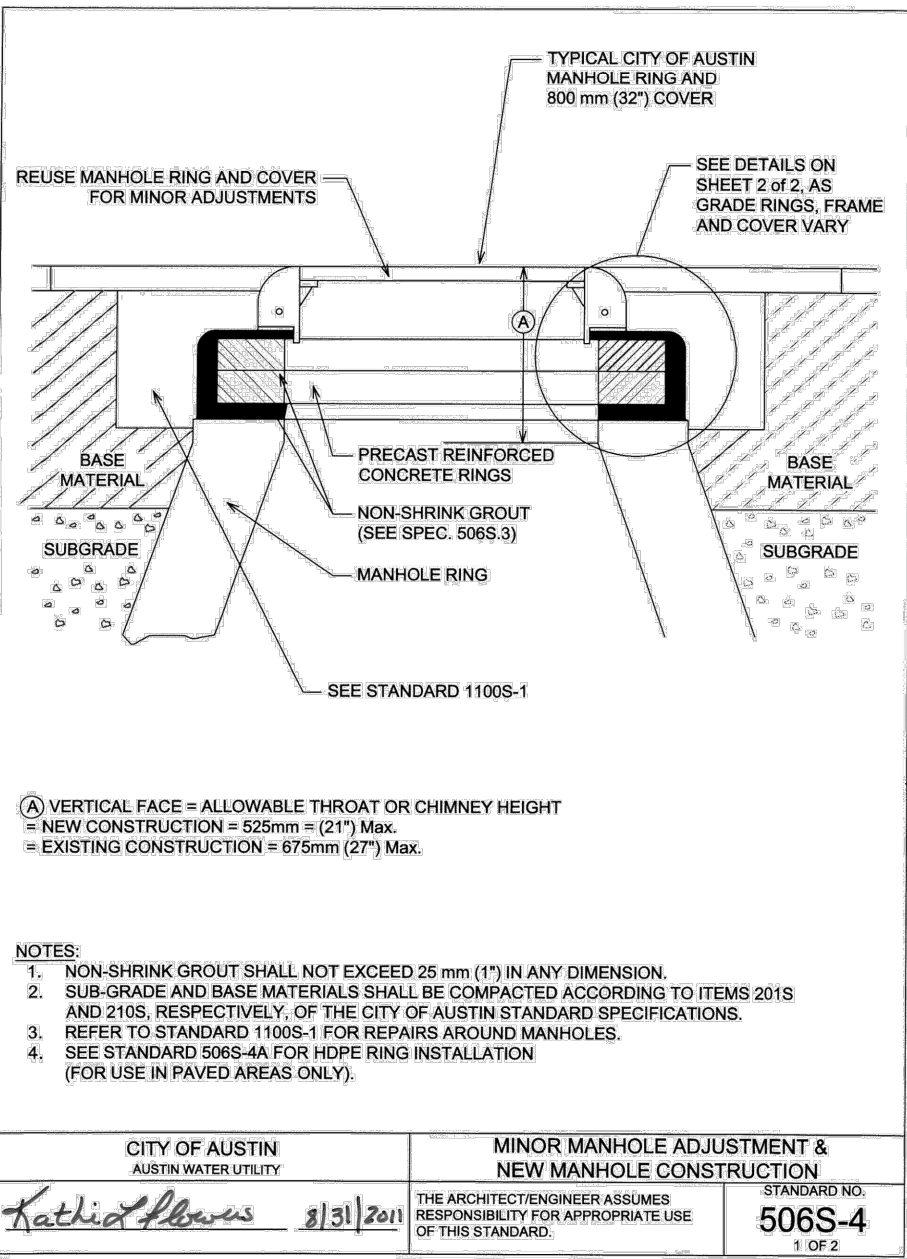
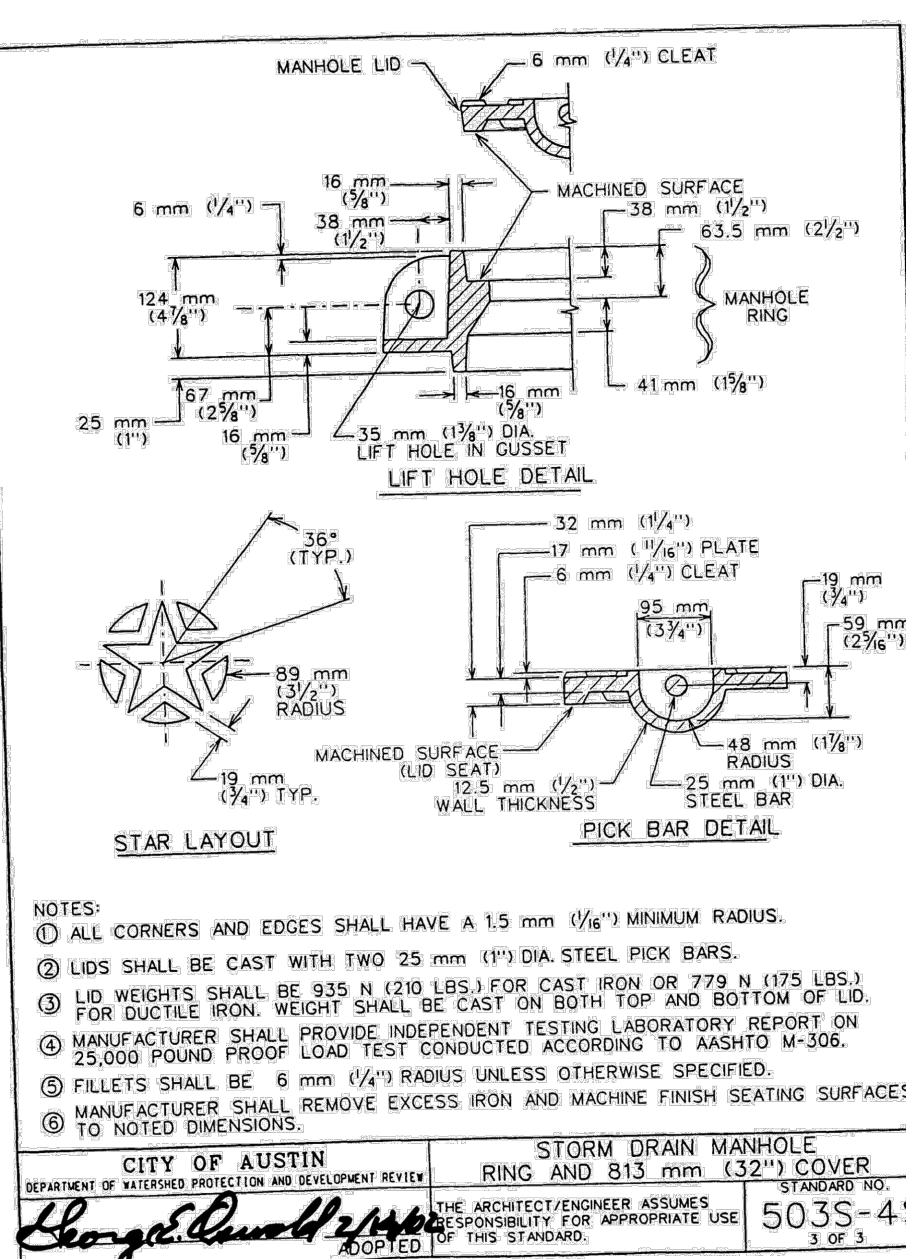
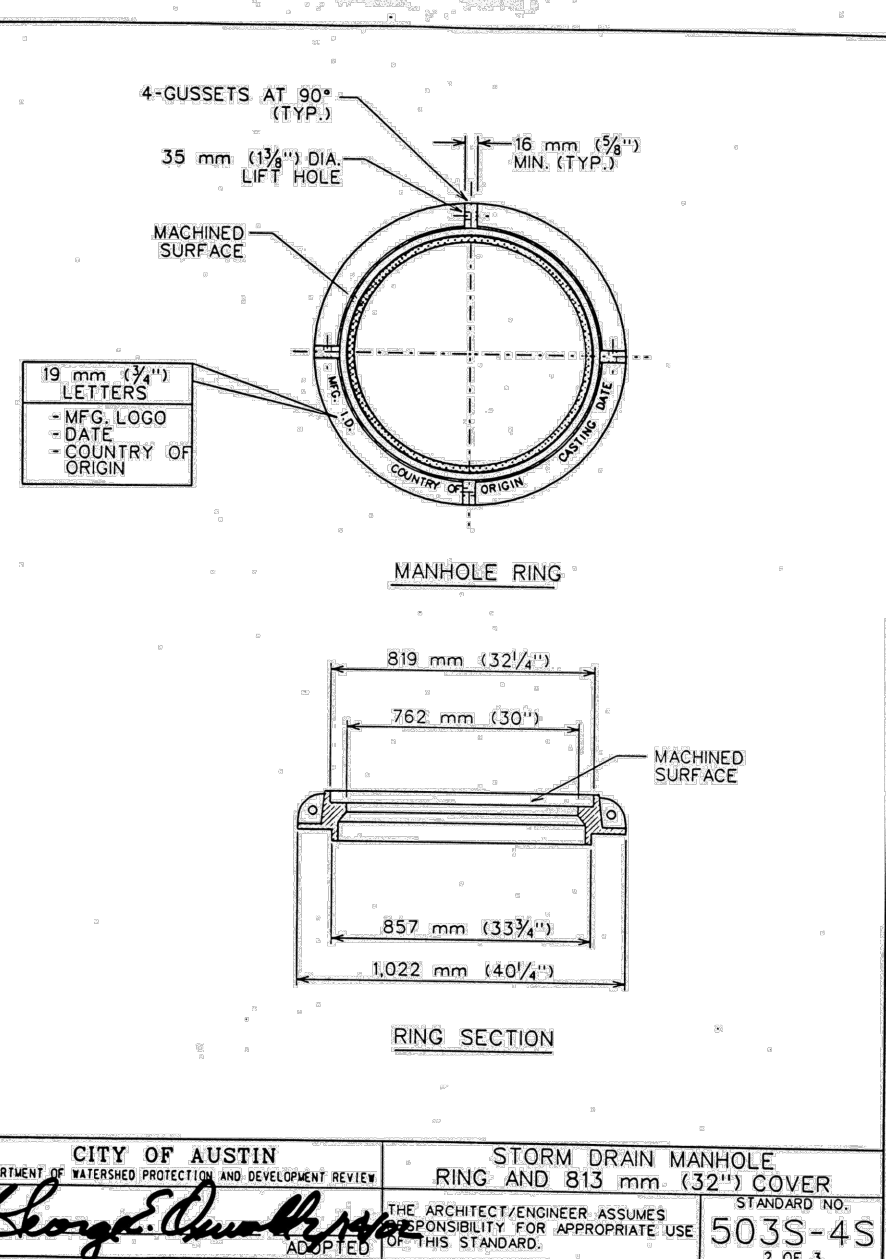
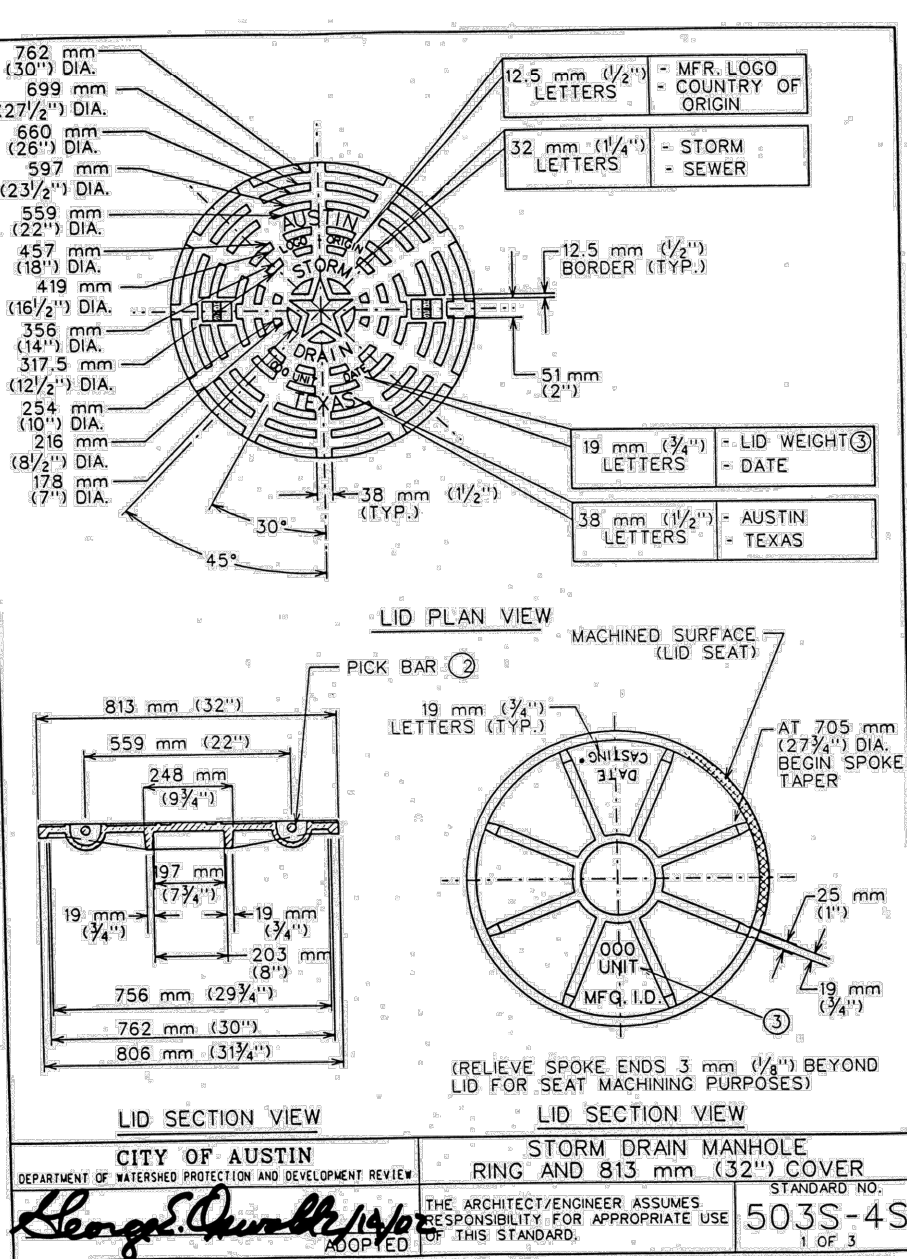
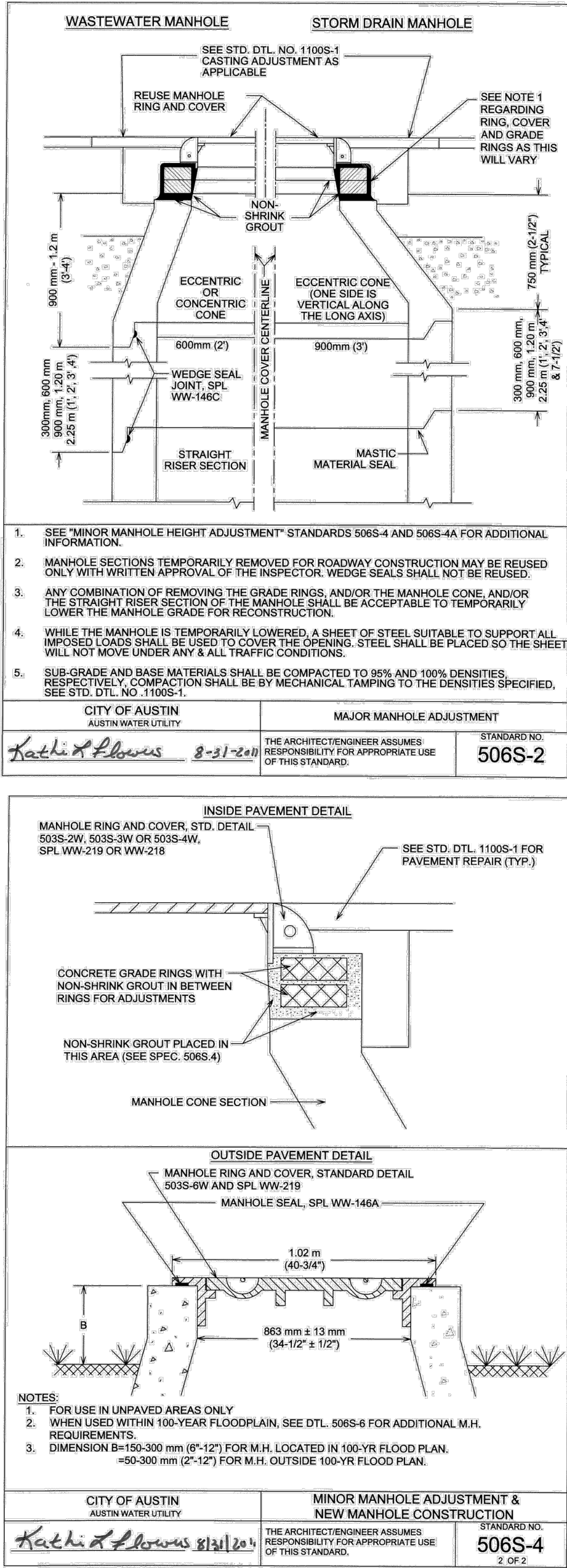
NOTAR SEAL

NICHOLAS Z. LUTZ
443701
LICENSED PROFESSIONAL ENGINEER

REVISIONS

DATE

BY



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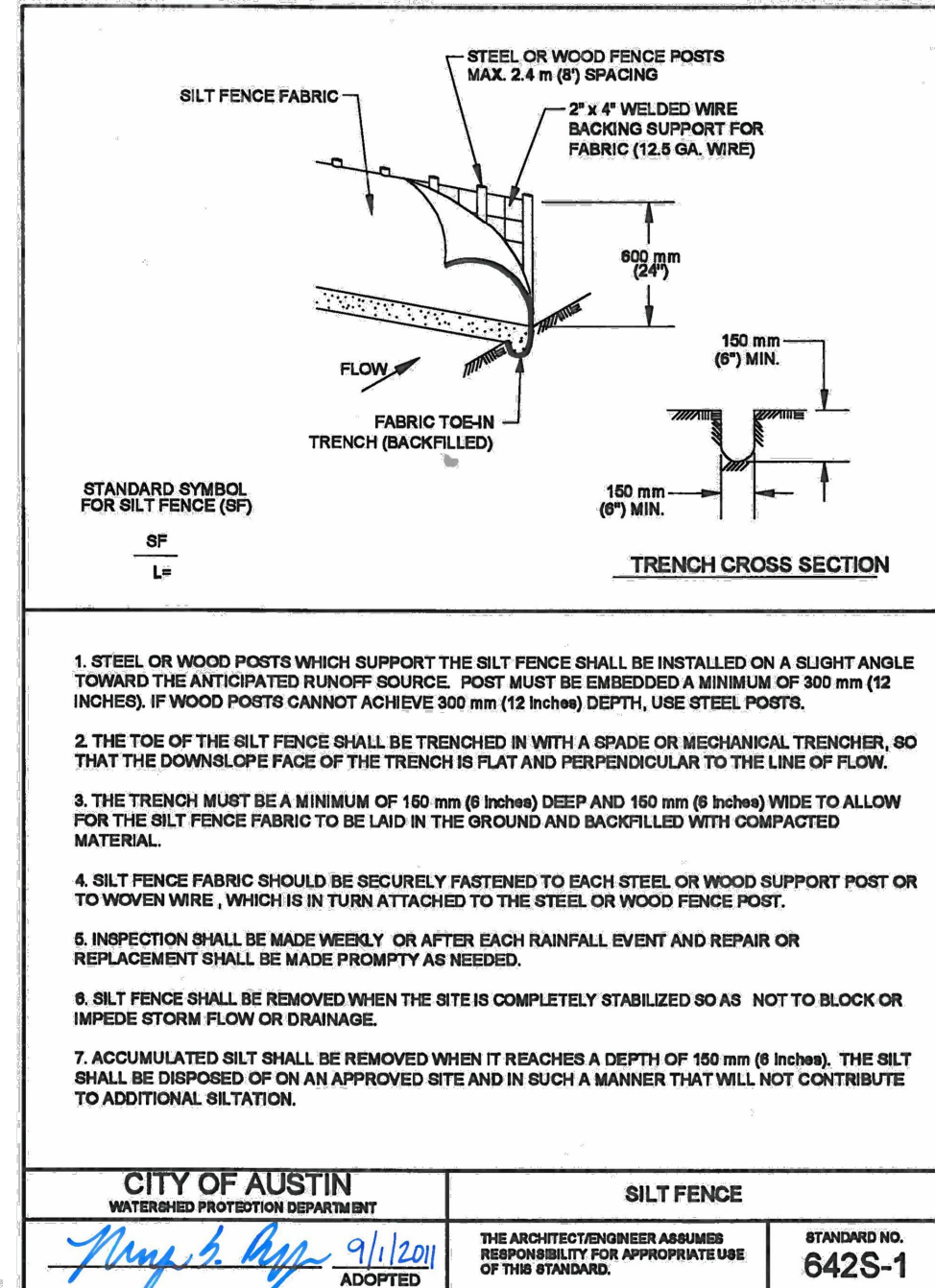
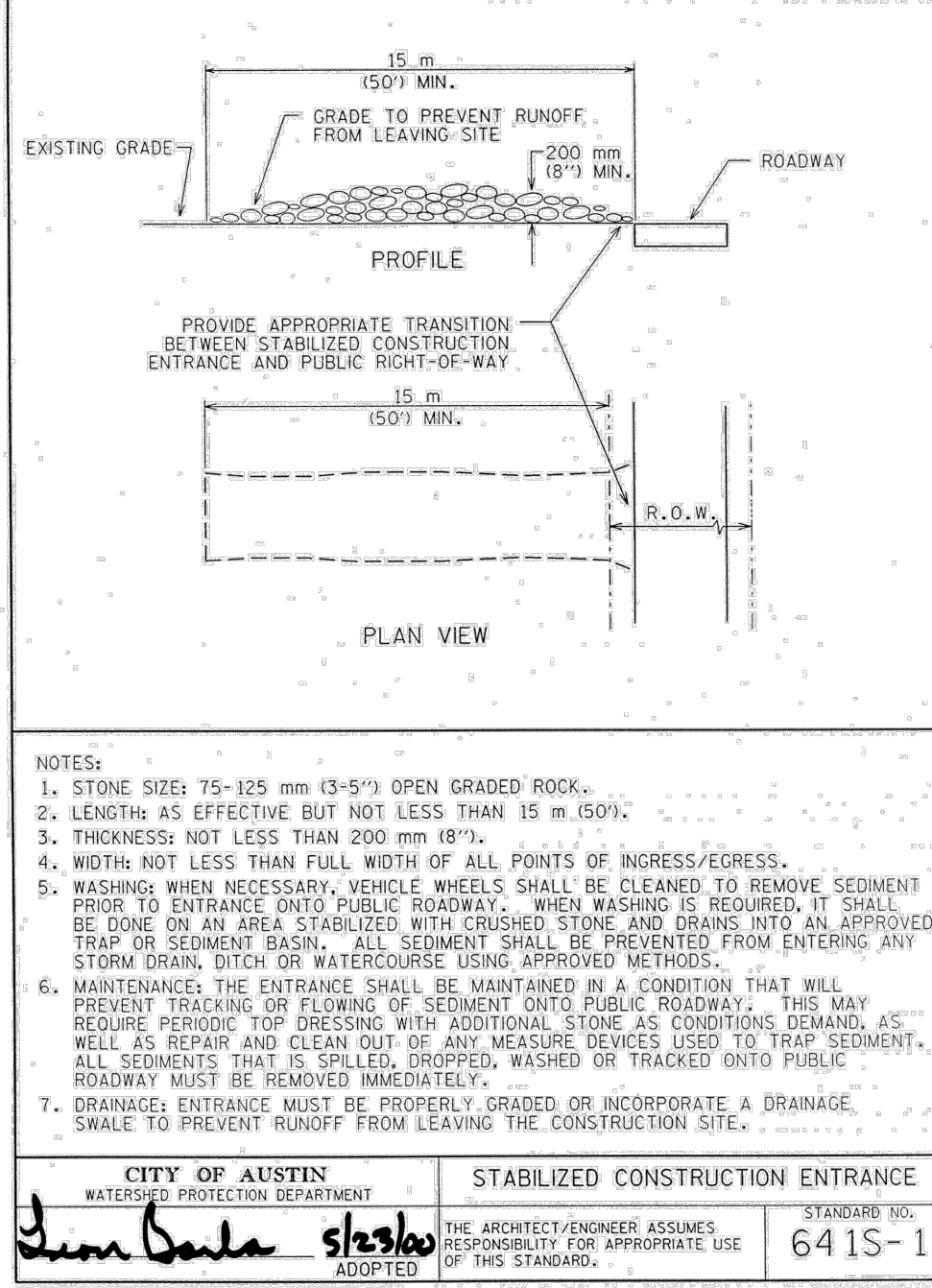
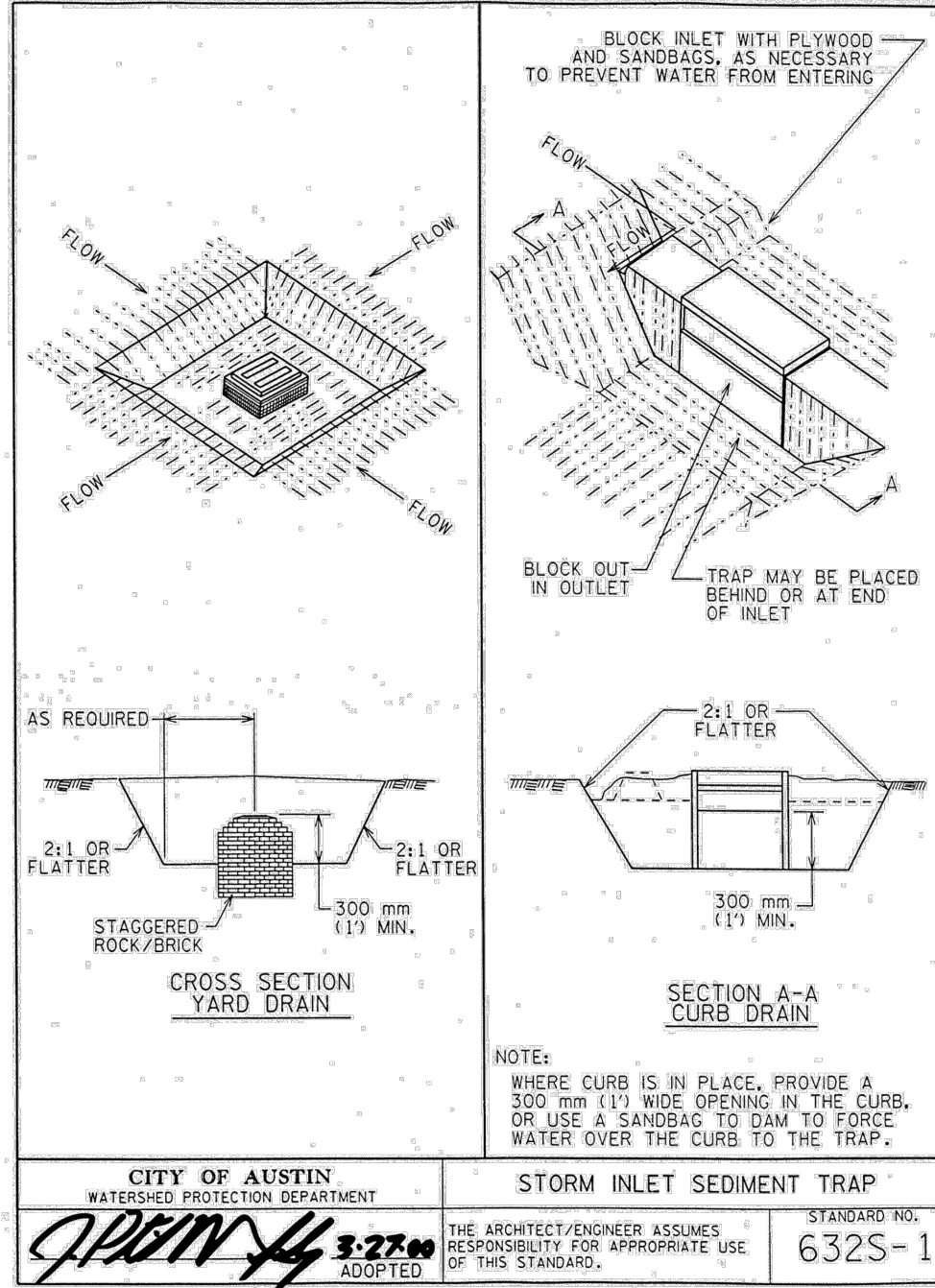
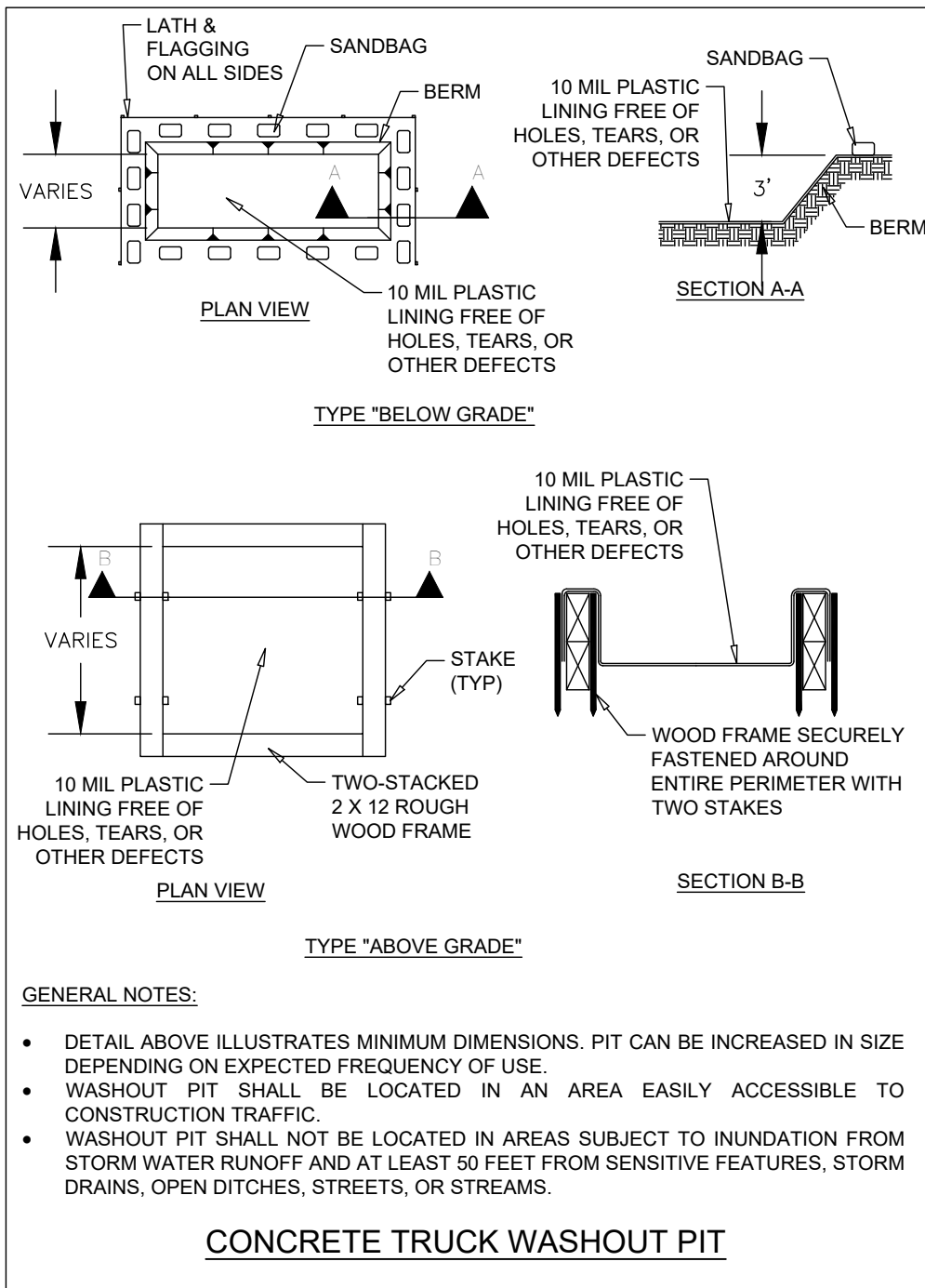
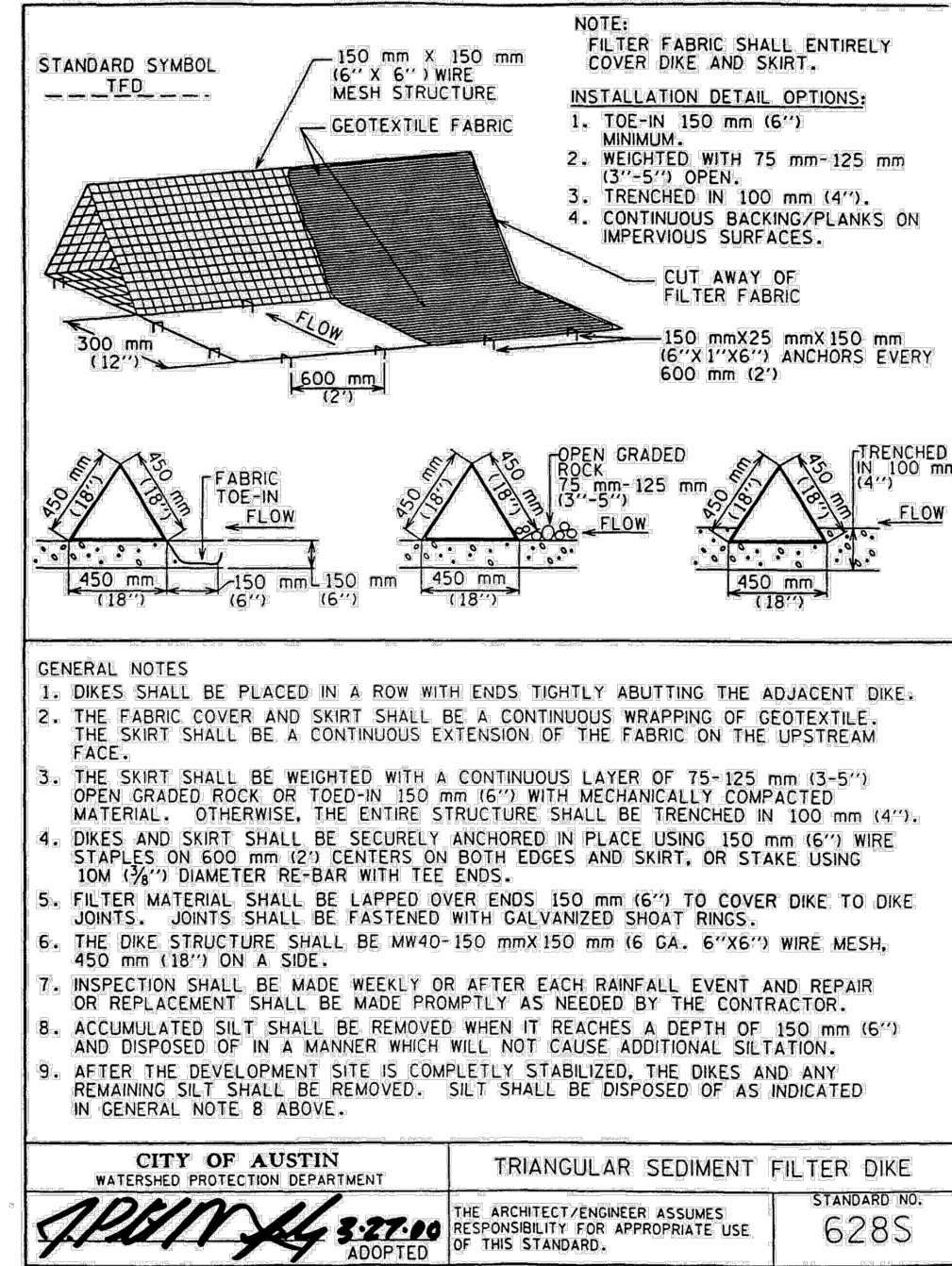
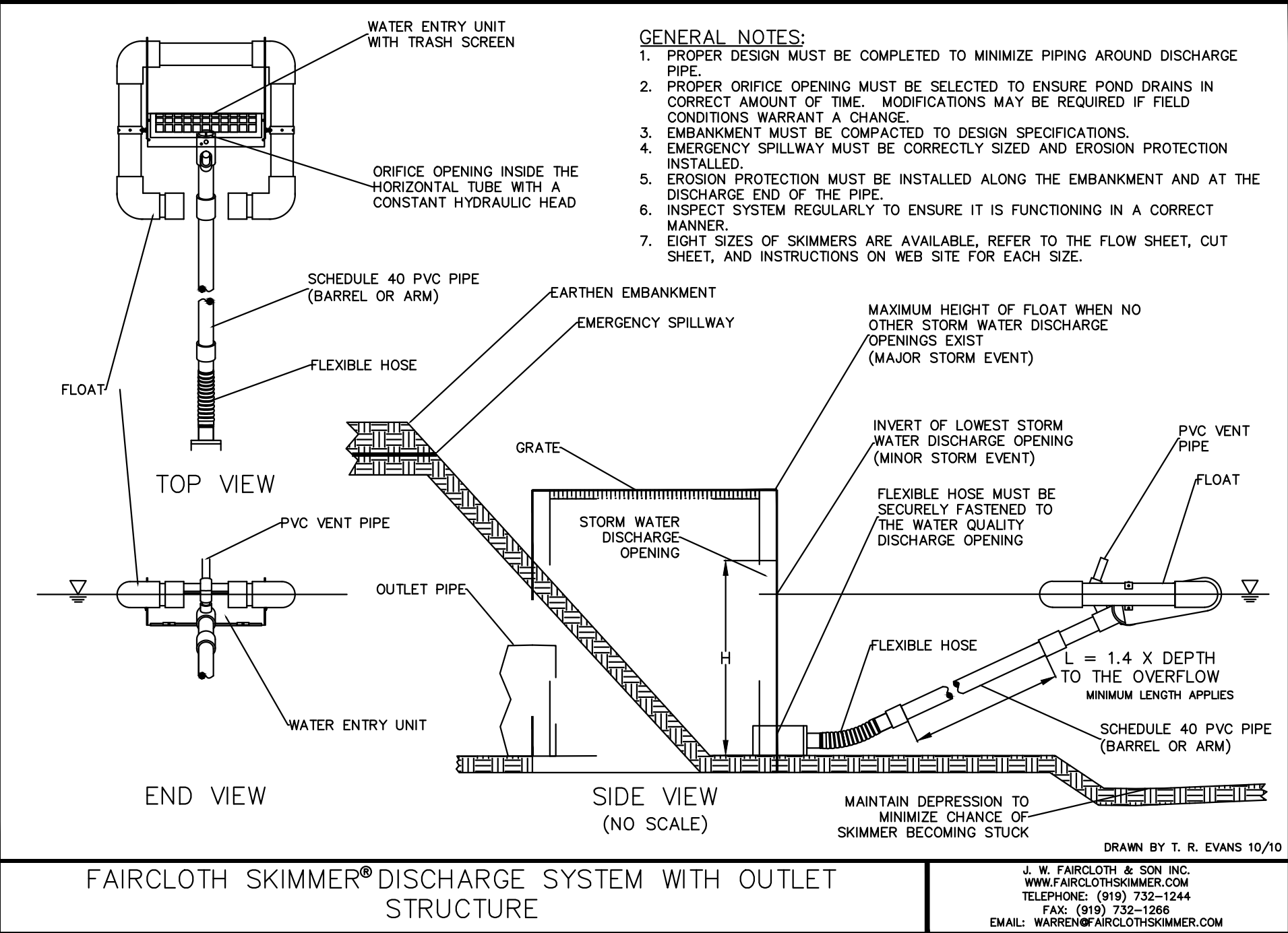
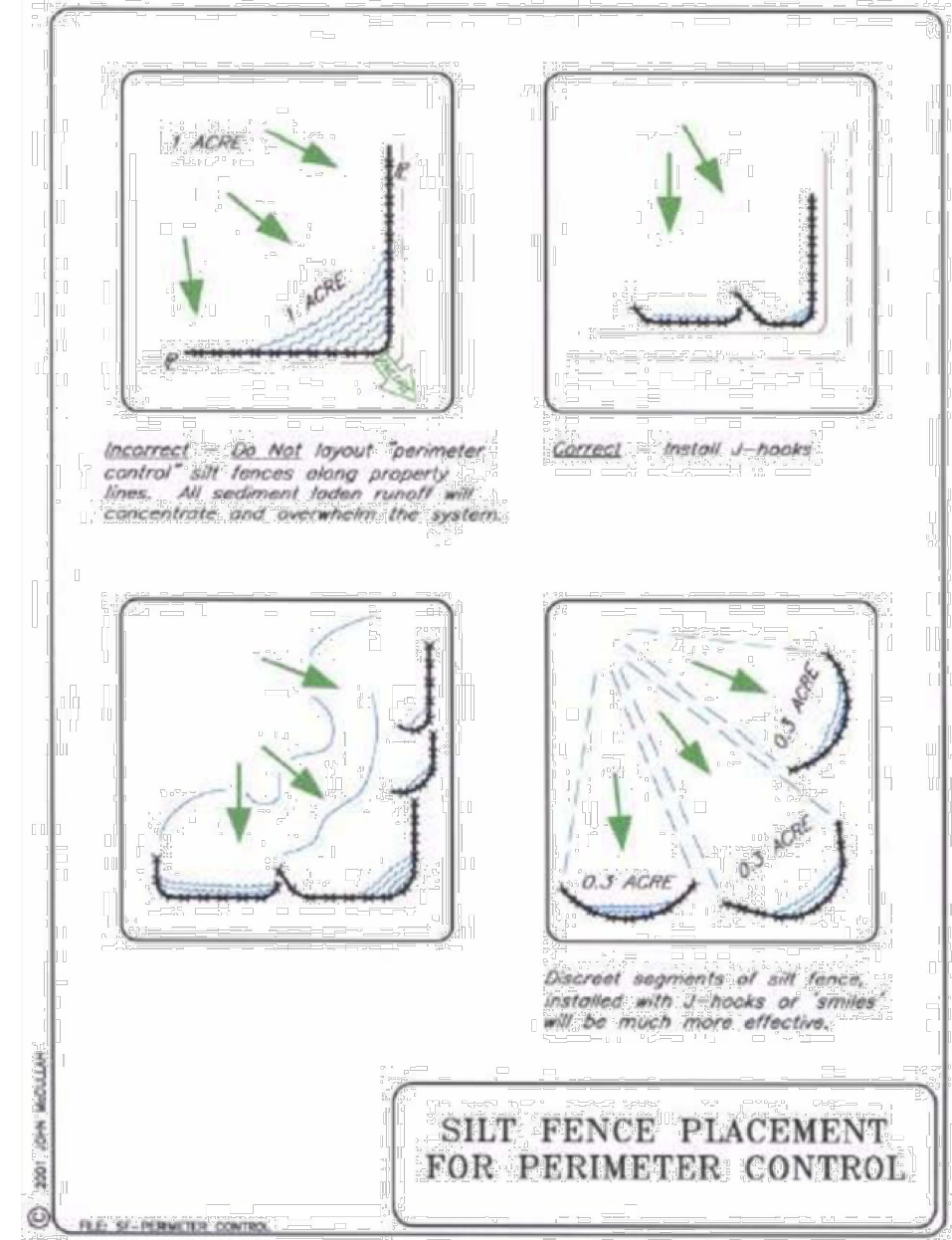
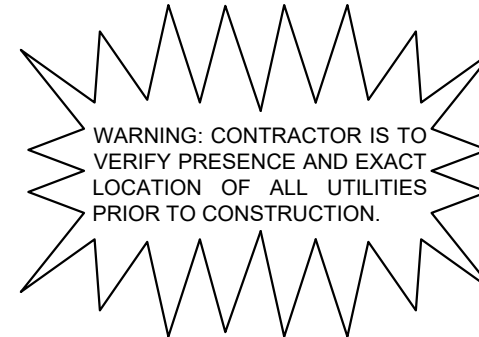


Figure 1.4.5.G.3 Silt Fence Placement for Perimeter Control



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BENCHMARKS

1. BM #103 MAG NAIL W/ WASHER SET ON THE WEST RIGHT-OF-WAY OF O'CONNOR DRIVE, APPROX. 730' NORTH OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD. ELEV. = 796.880
2. BM #104 MAG NAIL W/ WASHER SET ON THE NORTH RIGHT-OF-WAY OF HWY-45 FRONTAGE ROAD, APPROX. 950' WEST OF THE INTERSECTION OF O'CONNOR DRIVE AND HWY-45 FRONTAGE ROAD. ELEV. = 795.950

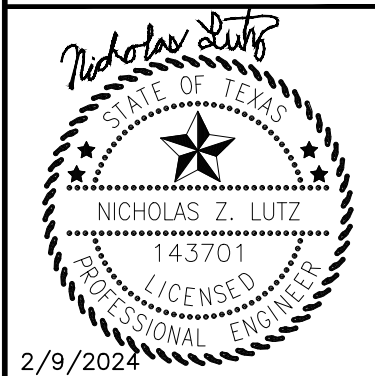
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