# CONTRIBUTING ZONE PLAN

## SWEETWATER CROSSING LAST MILE FACILITY BEE CAVE, TRAVIS COUNTY, TEXAS

#### Prepared For:

## VELOCIS BEE CAVE JV, LP, A DELAWARE LIMITED PARTNERSHIP

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# Kimley **»Horn**

# 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 <u>30 TAC 213</u>.

#### Administrative Review

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

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

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

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

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

#### **Technical Review**

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

A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be clearly marked, features identified in the geologic assessment should be FLAGGED, ROADWAYS MARKED AND THE ALIGNMENT OF THE SEWAGE COLLECTION SYSTEM AND MANHOLES SHOULD BE STAKED AT THE TIME THE APPLICATION IS SUBMITTED. IF THE SITE IS NOT MARKED THE APPLICATION MAY BE RETURNED.

- 2. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or if not withdrawn the application will be denied and the application fee will be forfeited.
- 3. 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 Modifications". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

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

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

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

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

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

| 1. Regulated Entity Name: Sweetwater Crossing Last<br>Mile Facility |         |              |                   | 2. Regulated Entity No.: |      |  |     |                            |                               |            |  |
|---|---------|--------------|-------------------|--------------------------|------|--|-----|----------------------------|-------------------------------|------------|--|
| 3. Customer Name: Velocis Bee Cave JV, LP                           |         |              |                   | 4. Customer No.:         |      |  |     |                            |                               |            |  |
| 5. Project Type:<br>(Please circle/check one)                       | New     | Modification |                   |                          | ו    | Extension  |     | Exception                  |                               |            |  |
| 6. Plan Type:<br>(Please circle/check one)                          | WPAP    | CZP          | SCS               | SCS UST AST              |      |  | EXT | Technical<br>Clarification | Optional Enhanced<br>Measures |            |  |
| 7. Land Use:<br>(Please circle/check one)                           | Resider | ntial <      | Non-residential   |                          |      | Non-residential  |     |                            |                               | e (acres): | 23.19-acres (17.96-acres within Contributing Zone) |
| 9. Application Fee:   | \$6,500 |              | 10. Permanent BMF |                          |      | BMP(s): On-Site: Extended Detention Pond,<br>Filter Basin, Bioretention Basing |     |                            |                               |            |  |
| 11. SCS (Linear Ft.):   | N/A     |              | 12. AST/UST (No   |                          |      | (No. Tanks):   |     | N/A                        |                               |            |  |
| 13. County:   | Travis  |              | 14. W             | 'aters                   | hed: |  |     | Little Barton Creek        |                               |            |  |

TCEQ-20705 (10-30-14)

## 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)                             |   | _ <u>X_</u>  |  |
| Groundwater Conservation<br>District(s) | Edwards Aquifer<br>Authority<br>Barton Springs/<br>Edwards Aquifer<br>Hays Trinity<br>Plum Creek    | Barton Springs/<br>Edwards Aquifer   | NA   |
| City(ies) Jurisdiction                  | Austin<br>Buda<br>Dripping Springs<br>Kyle<br>Mountain City<br>San Marcos<br>Wimberley<br>Woodcreek | Austin<br>_X_Bee Cave<br>Pflugerville<br>Rollingwood<br>Round Rock<br>Sunset Valley<br>West Lake Hills | Austin<br>Cedar Park<br>Florence<br>Georgetown<br>Jerrell<br>Leander<br>Liberty Hill<br>Pflugerville<br>Round Rock |

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

Bryce Barr, P.E.

Print Name of Customer/Authorized Agent

07/12/2023

Signature of Customer/Authorized Agent

Date

| **FOR TCEQ INTERNAL USE ONLY**                      |                |                              |  |  |  |
|---|----------------|------------------------------|--|--|--|
| Date(s)Reviewed:                                    | Date Adn       | ninistratively Complete:     |  |  |  |
| Received From:                                      | Correct N      | Jumber of Copies:            |  |  |  |
| Received By:  | Distribut      | ion Date:                    |  |  |  |
| EAPP File Number:                                   | Complex        | :                            |  |  |  |
| Admin. Review(s) (No.):                             | No. AR Rounds: |                              |  |  |  |
| Delinquent Fees (Y/N):                              | Review T       | ime Spent:                   |  |  |  |
| Lat./Long. Verified:                                | SOS Cust       | omer Verification:           |  |  |  |
| Agent Authorization<br>Complete/Notarized<br>(Y/N): |                | Payable to TCEQ (Y/N):       |  |  |  |
| Core Data Form<br>Complete (Y/N):                   | Fee<br>Check:  | Signed (Y/N):                |  |  |  |
| Core Data Form<br>Incomplete Nos.:                  |                | Less than 90 days old (Y/N): |  |  |  |

# Kimley **»Horn**

# SECTION 2: CONTRIBUTING ZONE PLAN APPLICATION

# **Contributing Zone Plan Application**

Texas Commission on Environmental Quality for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), Effective June 1, 1999

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

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

## Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This Contributing Zone Plan Application is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Bryce Barr, P.E.

Date: \_\_\_\_<u>07/12/2023\_\_\_\_</u>

Signature of Customer/Agent:

BR-

Regulated Entity Name: <u>Sweetwater Crossing Last Mile Facility</u>

#### **Project Information**

- 1. County: <u>Travis</u>
- 2. Stream Basin: Little Barton Creek
- 3. Groundwater Conservation District (if applicable): <u>Southwestern Travis County</u> <u>Groundwater Conservation District (SWTCGCD)</u>
- 4. Customer (Applicant):

Contact Person: <u>Paul Smith</u> Entity: <u>Velocis Bee Cave JV, LP</u> Mailing Address: <u>300 Crescent Court, Suite 850</u> City, State: <u>Dallas, Texas</u> Telephone: (<u>214</u>) 702 - 0220 Email Address: paul.smith@velocis.com

Zip: <u>75201</u> Fax: <u>N/A</u> 5. Agent/Representative (If any):

> Contact Person: Bryce Barr, P.E. Entity: Kimley-Horn and Associates, Inc. Mailing Address: 5301 Southwest Parkway, Building 2, Suite 100 City, State: Austin, Texas Zip: 78735 Telephone: 512-646-2237 Fax: N/A Email Address: bryce.barr@kimley-horn.com

6. **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 Bee Cave.

The project site is not located within any city's limits or ETJ.

- 7.  $\boxtimes$  The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation. Located at the southwest corner of the intersection of Cross Peak Drive and Sweetwater Village Drive in the extra-territorial jurisdiction of Bee Cave, Texas, 78738
- 8. Attachment A - Road Map. A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.
- 9.  $\boxtimes$  Attachment B - USGS Quadrangle Map. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

 $\boxtimes$  Project site boundaries. USGS Quadrangle Name(s).

- Attachment C Project Narrative. A detailed narrative description of the proposed
- 10. project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:
  - $\bowtie$  Area of the site
  - ⊠ Offsite areas
  - Impervious cover
  - Permanent BMP(s)
  - $\boxtimes$  Proposed site use
  - Site history
  - Previous development
  - $\boxtimes$  Area(s) to be demolished
- Existing project site conditions are noted below: 11.
  - Existing commercial site

|     | <ul> <li>Existing industrial site</li> <li>Existing residential site</li> <li>Existing paved and/or unpaved roads</li> <li>Undeveloped (Cleared)</li> <li>Undeveloped (Undisturbed/Not cleared)</li> <li>Other:</li> </ul> |
|-----|--|
| 12. | The type of project is:  |
|     | Residential: # of Lots:<br>Residential: # of Living Unit Equivalents:<br>Commercial<br>Industrial<br>Other:  |
| 13. | Total project area (size of site): <u>23.19</u> Acres  |
|     | Total disturbed area: <u>17.96</u> Acres   |
| 14. | Estimated projected population:696 (maximum occupancy)_  |

15. The amount and type of impervious cover expected after construction is complete is shown below:

| Impervious Cover of       |         |              |        |
|---------------------------|---------|--------------|--------|
| Proposed Project          | Sq. Ft. | Sq. Ft./Acre | Acres  |
| Structures/Rooftops       | 186,840 | ÷ 43,560 =   | 4.289  |
| Parking                   | 288,345 | ÷ 43,560 =   | 6.619  |
| Other paved surfaces      | 15,736  | ÷ 43,560 =   | 0.361  |
| Total Impervious<br>Cover | 490,921 | ÷ 43,560 =   | 11.269 |

1. Table 1 - Impervious Cover

Total Impervious Cover 11.30 ÷ Total Acreage 17.96 X 100 = 62.92% Impervious Cover

- 16. Attachment D Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
- 17. Only inert materials as defined by 30 TAC 330.2 will be used as fill material

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

N/A

| 18. | Type of project:  |
|-----|---|
| 19. | <ul> <li>TXDOT road project.</li> <li>County road or roads built to county specifications.</li> <li>City thoroughfare or roads to be dedicated to a municipality.</li> <li>Street or road providing access to private driveways.</li> <li>Type of pavement or road surface to be used:</li> </ul> |
|     | Concrete Asphalt concrete pavement Other:   |
| 20. | Right of Way (R.O.W.):  |
|     | Length o f R .O.W.:feet.  |
|     | Width o f R .O.W.:feet.<br>L x W =Ft <sup>2</sup> ÷ 43,560 Ft <sup>2</sup> /Acre =acres.  |
| 21. | Pavement Area:  |
|     | Length o f R .O.W.:feet.  |
|     | Width o f R .O.W.:feet.L x W = $Ft^2 \div 43,560 Ft^2/Acre =acres.Pavement areaacres \div R .O.W. a reaacres x 100 =% impervious cover.$  |
| 22. | A rest stop will be included in this project. A rest stop will not be included in this project.   |

23. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

#### Stormwater to be generated by the Proposed Project

24. Attachment E - Volume and Character of Stormwater. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

#### Wastewater to be generated by the Proposed Project

25. X Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC§213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

🗌 N/A

26. Wastewater will be disposed of by:

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

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

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

Sewage Collection System (Sewer Lines):

The sewage collection system will convey the wastewater to the <u>Travis County MUD No. 1-</u> <u>A</u> Treatment Plant. The treatment facility is:

Existing. Proposed.

Permanent Aboveground Storage Tanks (ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

🖂 N/A

27. Tanks and substance stored:

| 2. | Table 2 - | Tanks and | Substance | Storage |
|----|-----------|-----------|-----------|---------|
|----|-----------|-----------|-----------|---------|

| AST Number | Size (Gallons) | Substance to be<br>Stored | Tank Material |
|------------|----------------|---------------------------|---------------|
|            |                | 510100                    |               |
| 1          |                |                           |               |
| 2          |                |                           |               |
| 3          |                |                           |               |
| 4          |                |                           |               |
| 5          |                |                           |               |
|            | •              | Total                     | x15- Gallons  |

Total x 1.5 = \_\_\_\_\_ Gallons

28. The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

Attachment G - Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

# Length (L)(Ft.) Width(W)(Ft.) Height (H)(Ft.) L x W x H = (Ft3) Gallons Image: Image of Constrainty Solution (L)(Ft.) Gallons Image of Constrainty Solution (L)(Ft.) Image of Constrainty Solution (L)(Ft.) Image of Constrainty Solution (L)(Ft.) Gallons Image of Constrainty Solution (L)(Ft.) <

#### 3. Table 3 - Secondary Containment

30. Piping:

All piping, hoses, and dispensers will be located inside the containment structure.

Some of the piping to dispensers or equipment will extend outside the containment structure.

The piping will be aboveground

The piping will be underground

- 31. The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of:
- 32. Attachment H AST Containment Structure Drawings. A scaled drawing of the containment structure is attached that shows the following:
  - Interior dimensions (length, width, depth and wall and floor thickness).
  - Internal drainage to a point convenient for the collection of any spillage.

Tanks clearly labeled

Piping clearly labeled

Dispenser clearly labeled

33. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

| In the event of a spill, any spillage will be removed from the containment structure | Ś |
|--|---|
| within 24 hours of the spill and disposed of properly.                               |   |

□ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Total:

Gallons

#### Site Plan Requirements

|  | Items 34 - 46 | must be | included | on the | e Site | Plan |
|--|---------------|---------|----------|--------|--------|------|
|--|---------------|---------|----------|--------|--------|------|

- 34.  $\square$  The Site Plan must have a minimum scale of 1" = 400'.
  - Site Plan Scale: 1" = \_\_\_80\_\_\_\_'.
- 35. 100-year floodplain boundaries:
  - Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
  - 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): Flood Insurance Map (FIRM) No. 48209C0105F.
- 36. The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

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

- 37.  $\square$  A drainage plan showing all paths of drainage from the site to surface streams.
- 38. 🖂 The drainage patterns and approximate slopes anticipated after major grading activities.
- 39.  $\square$  Areas of soil disturbance and areas which will not be disturbed.
- 40. 🖂 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41.  $\square$  Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).
  - 🖂 N/A
- 43.  $\boxtimes$  Locations where stormwater discharges to surface water.
  - There will be no discharges to surface water.
- 44. Temporary aboveground storage tank facilities.
  - Temporary aboveground storage tank facilities will not be located on this site.
- 45. Permanent aboveground storage tank facilities.
  - Permanent aboveground storage tank facilities will not be located on this site.
- 46.  $\boxtimes$  Legal boundaries of the site are shown.
- Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

- 47. Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
  - N/A
- 48. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
  - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
  - A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: <u>Article 20.04 Nonpoint Source Pollution Control for the City of Bee Cave,</u> <u>TX was used to design the sedimentation and filtration pond. Due to the City of Bee</u> <u>Cave TSS removal requirement of 95%, the TCEQ TGM requirements of 80% are</u> <u>being met with this design.</u>
  - N/A
- 49. Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

N/A

50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

The site will be used for low density single-family residential development and has 20% or less impervious cover.

The site will be used for low density single-family residential development but has more than 20% impervious cover.

The site will not be used for low density single-family residential development.

51. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing

| and Approval), may no longer apply and the property owner must notify the appropriate | е |
|---|---|
| regional office of these changes.   |   |

| IEG   |   |
|-------|---|
|       | <ul> <li>Attachment I - 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.</li> <li>The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.</li> <li>The site will not be used for multi-family residential developments, schools, or small business sites.</li> </ul>                                     |
| 52. 🗌 | Attachment J - BMPs for Upgradient Stormwater.  |
|       | <ul> <li>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.</li> <li>No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.</li> <li>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.</li> </ul> |
| 53. 🔀 | Attachment K - BMPs for On-site Stormwater.   |
|       | <ul> <li>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.</li> <li>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.</li> </ul>   |
| 54.   | Attachment L - BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached. N/A  |
| 55. 🔀 | Attachment M - Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed   |

structural plans and specifications, and appropriate details.

□ N/A

56. Attachment N - Inspection, Maintenance, Repair and Retrofit Plan. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

Prepared and certified by the engineer designing the permanent BMPs and measures

 $\boxtimes$  Signed by the owner or responsible party

Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.

Contains a discussion of record keeping procedures

N/A

57. Attachment O - Pilot-Scale Field Testing Plan. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

🖂 N/A

58. Attachment P - Measures for Minimizing Surface Stream Contamination. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

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

#### Administrative Information

61. Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and

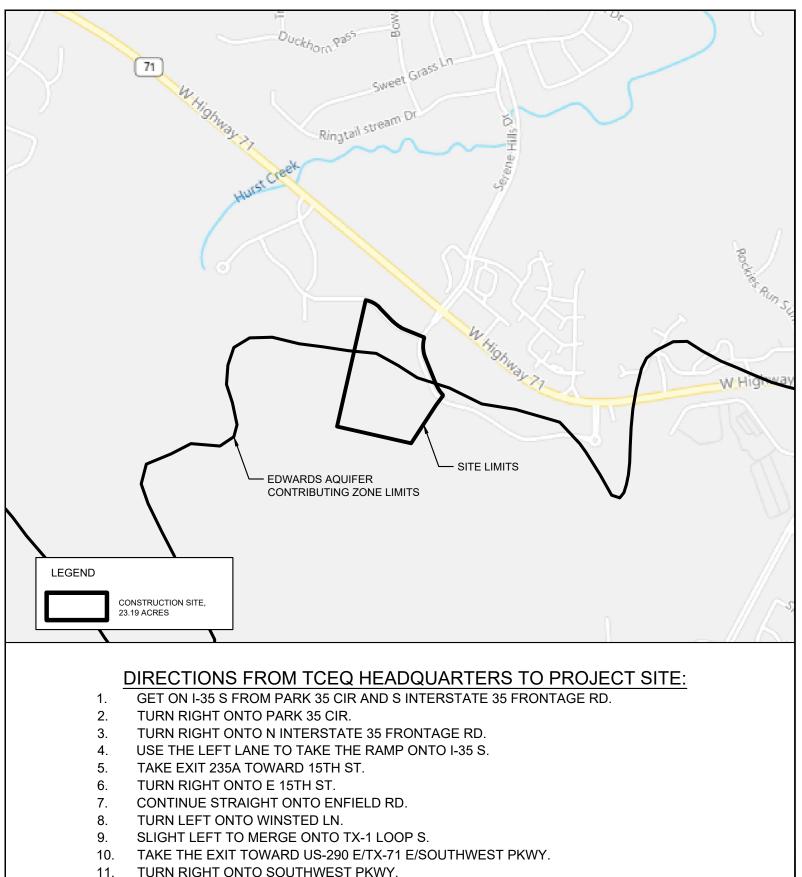
TCEQ-10257 (Rev. 02-11-15)

county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.

- 62. Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
  - The Temporary Stormwater Section (TCEQ-0602) is included with the application.

SWEETWATER CROSSING LAST MILE FACILITY CONTRIBUTING ZONE PLAN

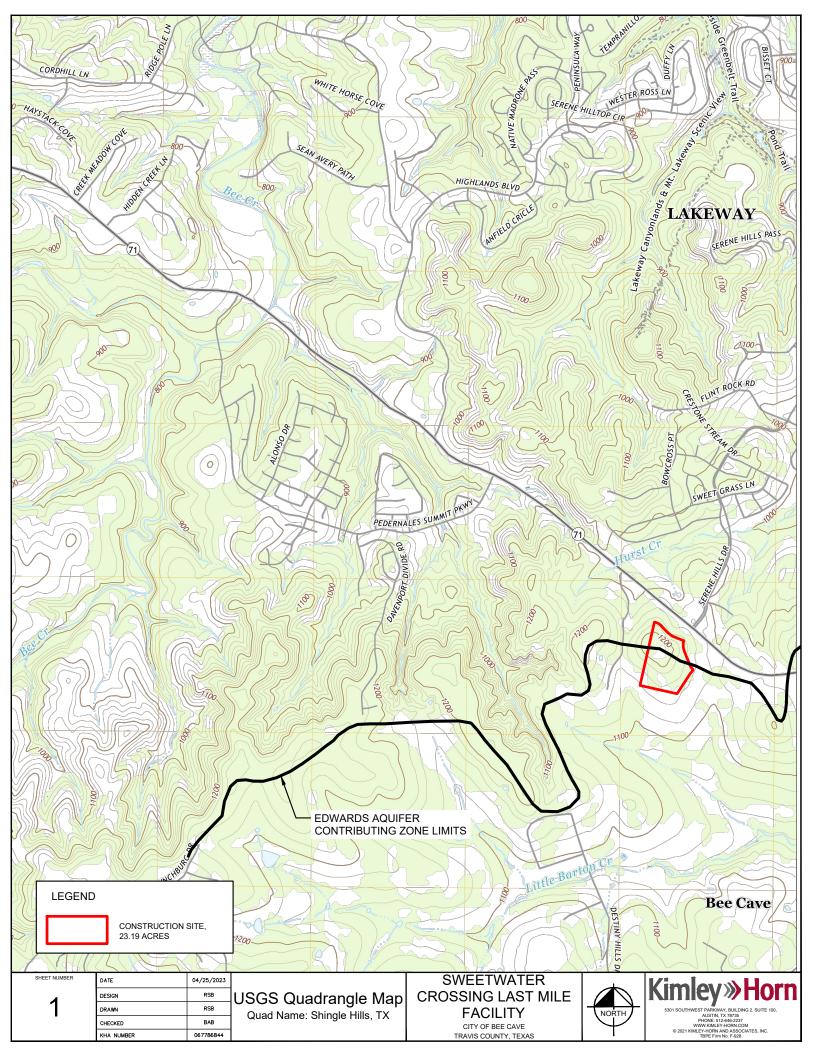
## **ROAD MAP**



- 12. TURN RIGHT ONTO TX-71 W.
- 13. TURN LEFT ONTO SWEETWATER VILLAGE DR.
- 14. TURN RIGHT ONTO CROSS PEAK DR.
- 15. DESTINATION WILL BE ON THE LEFT.

| SHEET NUMBER | DATE       | 04/25/2023 | ROAD MAP | SWEETWATER           | ц.       | Vinalow W Horn   |
|--------------|------------|------------|----------|----------------------|----------|--|
| 1            | DESIGN     | RSB        |          | CROSSING LAST MILE   |          | <b>Kimley</b> »Horn  |
|              | DRAWN      | RSB        |          | FACILITY             | NORTH    | 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100,<br>AUSTIN. TX 78735 |
|              | CHECKED    | BAB        |          | CITY OF BEE CAVE     | $\nabla$ | PHONE: 512-646-2237<br>WWW.KIMLEY-HORN.COM                         |
|              | KHA NUMBER | 067786844  |          | TRAVIS COUNTY, TEXAS |          | © 2021 KIMLEY-HORN AND ASSOCIATES, INC.<br>TBPE Firm No. F-928     |

## **USGS QUADRANGLE MAP**



## **PROJECT NARRATIVE**

The Sweetwater Crossing Last Mile Facility is located at the southwest corner of the intersection of Cross Peak Drive and Sweetwater Village Drive, south of the intersection of SH 71 and Serene Hills Drive, in the Extra-Territorial Jurisdiction Limits of Bee Cave, Texas on approximately 23.19-acres. On-site, 17.96-acres are located withing the Edwards Aquifer Contributing Zone. In proposed conditions all 23.19-acres will be draining to one Water Quality/Detention Pond. The perimeter of the site has previously been graded adjacent to the right-of-way of both Sweetwater Village Drive and Cross Peak Drive. Retaining walls currently exist along portions of these rights-of-way. The site is bordered by existing roads (Cross Peak Drive and Sweetwater Village Drive) on the north and northeast, with an effluent irrigation retention pond bordering the southeast, and undeveloped lots adjacent to the west and south. The proposed on-site work for the project consists of the construction of 3 industrial/logistics buildings, associated parking, and utilities. The water quality mechanism and permanent stormwater BMPs will be in a proposed drainage easement on the adjacent property (south). On-site water quality in the Edwards Aquifer Contributing Zone will be provided by using an extended detention pond, a sand filter basin, and a bioretention basin. Additionally, Contech Filterra Bioretention inlets in series with Contech StormFilter will be used on the north side of the site. All BMPs are designed in accordance with TCEQ water quality requirements, and Article 20.04 Nonpoint Source Pollution Control (Bee Cave, TX). No off-site stormwater drains onto the site. The proposed impervious cover within the Edwards Aquifer Contributing Zone for the project is approximately 490,921 square feet. A drainage easement for the Water Quality/Detention Pond on the adjacent property (south) will be dedicated by separate instrument. Demolition of existing curbs, retaining walls, curb inlets, etc. will occur in various locations along the perimeter of the site. Existing trees will also need to be removed for construction to occur.

## FACTORS AFFECTING SURFACE WATER QUALITY

Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing, and cut and fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, the use of silt fences and rock berms will prevent sediment from leaving the site. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule.

During construction, surface water quality may also be affected by a spill of hydrocarbons or other hazardous substances used in construction. The most likely instances of a spill of hydrocarbons and hazardous substance area:

- 1. Refueling construction equipment.
- 2. Oil and grease from vehicle traffic.
- 3. Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
- 4. Normal silt build-up.
- 5. Unscheduled or emergency repairs, such as hydraulic fluid leaks.
- 6. Fertilizers used in the landscaping around the site.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill, the contractor is required to clean up the spill and notify the TCEQ. During business hours report spills to TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224.

After construction is complete, impervious cover for the tract of land is the major reason for degradation of water quality. Impervious cover includes building, parking, driveways, and courtyards. Oil and fuel discharges from vehicles is anticipated. A partial sedimentation/filtration is proposed to mitigate these features.

## **VOLUME AND CHARACTER OF STORMWATER**

The subject site slopes generally toward the south end of the property, and the elevation ranges from 1134 to 1206 feet. Both the existing and proposed drainage area maps are provided at the end of this report.

The 23.19-acre site proposes approximately 63.0% impervious cover within the 17.96-acre area that drains towards the Edwards Aquifer Contributing Zone. The remaining pervious portions of the site will consist of landscape and natural areas. Runoff from the developed areas will travel as sheet flow and shallow concentrated flow across both pervious and impervious area to stormwater inlets and/or water quality/detention basins. A majority of the runoff on the south side of the site will be conveyed to the water quality and detention basins at the south end of the site

This first flush of runoff will contain small amounts of oil, gas, and suspended solids, which will be captured and treated by the pond.

For more information see the existing and proposed drainage area map at the end of this report.

## SUITABILITY LETTER FROM AUTHORIZED AGENT

# ALTERNATIVE SECONDARY CONTAINMNET STRUCTURE DESIGN ROAD MAP

## AST CONTAINMENT STRUCTURE DRAWINGS

## 20% OR LESS IMPERVIOUS COVER WAIVER

## **BMPs FOR UPGRADIENT STORMWATER**

Stormwater originating up-gradient of the project site does not enter the site. Need for Upgradient Stormwater BMP's is not applicable to this project. Please refer to the proposed drainage area map that is provided in the attached plan set.

## **BMPs FOR ON-SITE STORMWATER**

Within the Edwards Aquifer Contributing Zone, an extended detention pond, a sand filter basin, and a bioretention basin will be utilized as the permanent best management practice on-site. All stormwater runoff from impervious areas will be collected by an underground storm sewer system and routed through the structures to provide the required overall removal of a minimum of 95% of the increase in Total Suspended Solids.

Construction plans, calculations, and specifications are provided at the end of this report under the appropriate tab.

## **BMPs FOR SURFACE STREAMS**

There are no existing surface streams or sensitive features on site.

## **CONSTRUCTION PLANS**

Construction plans, details, specifications, calculations, and construction notes are included with this package. Please see the attached plan set.

# **INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN**

## 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: | Velocis Bee Cave JV, LP _     |                   |
|--------------------|-------------------------------|-------------------|
| Mailing Address:   | 300 Crescent Court, Suite 850 |                   |
| City, State:       | Dallas, Texas                 | Zip: <u>75201</u> |
| -                  |                               |                   |

Telephone:

By:

(214) 702-0220\_\_\_\_\_ 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

Paul Smith

Date 8.14.23

This Maintenance Plan is based on City of Austin Environmental Criteria Manual.

Date <u>07/12/2023</u> Bryce Barr, P.E.

# TCEQ SAND FILTRATION MAINTENANCE GUIDELINES

Addendum of the TCEQ "Edwards Aquifer Technical Guidance Manual" is attached. This explains all of the routine and non-routine maintenance and inspections associated with Sand Filters.

#### Inspections.

BMP facilities must be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately. With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) must be identified and repaired immediately. Cracks, voids and undermining should be patched/filled to prevent additional structural damage. Trees and root systems should be removed to prevent growth in cracks and joints that can cause structural damage.

#### Sediment Removal.

Remove sediment from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6 inches or when the proper functioning of inlet and outlet structures is impaired. Sediment should be cleared from the inlet structure at least every year and from the sedimentation basin at least every 5 years.

#### Media Replacement.

Maintenance of the filter media is necessary when the drawdown time exceeds 48 hours. When this occurs, the upper layer of sand should be removed and replaced with new material meeting the original specifications. Any discolored sand should also be removed and replaced. In filters that have been regularly maintained, this should be limited to the top 2 to 3 inches.

#### **Debris and Litter Removal.**

Debris and litter will accumulate near the sedimentation basin outlet device and should be removed during regular mowing operations and inspections. Particular attention should be paid to floating debris that can eventually clog the control device or riser.

#### Filter Underdrain.

Clean underdrain piping network to remove any sediment buildup as needed to maintain design drawdown time

#### Mowing.

Grass areas in and around sand filters must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. Vegetation on the pond embankments should be mowed as appropriate to prevent the establishment of woody vegetation.

### **TCEQ BIORETENTION MAINTENANCE GUIDELINES**

Addendum of the TCEQ "Edwards Aquifer Technical Guidance Manual" is attached. This explains all of the routine and non-routine maintenance and inspections associated with Bioretention.

#### Inspections.

BMP facilities should be inspected at least twice a year (once during or immediately following wet weather) to evaluate facility operation. During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately.

#### Sediment Removal.

Remove sediment from the facility when sediment depth reaches 3 inches or when the sediment interferes with the health of vegetation or ability of the facility to meet required drawdown times. Sediment removal should be performed at least every 2 years.

#### Drain Time.

When the drain time exceeds 72 hours as observed in the observation well, the filter media should be removed and replaced with more permeable material.

#### Vegetation.

All dead and diseased vegetation considered beyond treatment shall be removed and replaced during semi-annual inspections. Diseased trees and shrubs should be treated during inspections. Remulch any bare areas by hand whenever needed. Replace mulch annually in the spring, or more frequently if needed, in landscaped areas of the basin where grass or groundcover is not planted. Grass areas in and around bioretention facilities 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.

### Debris and Litter Removal.

Debris and litter will accumulate in the facility and should be removed during regular mowing operations and inspections.

#### Filter Underdrain.

Clean underdrain piping network to remove any sediment buildup every 5 years, or as needed to maintain design drawdown time.

### PILOT-SCALE FIELD TESTING PLAN

(Not Applicable)

### 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 3: TEMPORARY STORMWATER SECTION

### **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: Bryce Barr

Date: 07/12/2023

Signature of Customer/Agent:

Regulated Entity Name: Sweetwater Crossing Last Mile Facility

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

### Temporary Best Management Practices (TBMPs)

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

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

| 8.  | $\boxtimes$ | <ul> <li>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.</li> <li>A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.</li> <li>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.</li> <li>The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active</li> </ul> |
|-----|-------------|--|
|     |             | construction should be avoided.  |
|     |             | Attachment E - Request to Temporarily Seal a Feature. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.   |
|     |             | There will be no temporary sealing of naturally-occurring sensitive features on the site.  |
| 9.  |             | Attachment F - Structural Practices. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.  |
| 10. | $\square$   | Attachment G - Drainage Area Map. A drainage area map supporting the following requirements is attached:   |
|     |             | <ul> <li>For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.</li> <li>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</li> </ul>   |
|     |             | 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.

### **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.

### 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.

### 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 (0.03 Acres)
- 2. Installation of Temporary BMPs (2.07 Acres)
- 3. Initiate Grubbing and Topsoil Stripping of Site (<u>1.82</u> Acres)
- 4. Rough Subgrade Preparation (earthwork, grading, street and drainage excavation and embankment) (<u>1.82</u> Acres)
- 5. Wet and Dry Utility Construction (0.020 Acres)
- 6. Final Subgrade Preparation (2.07 Acres)
- 7. Installation of Base Materials (2.07 Acres)
- 8. Concrete (foundations, curbs, flatwork) (0.755 Acres)
- 9. Building Construction (0.097 Acres)
- 10. Paving Activities (0.735 Acres)
- 11. Topsoil, Irrigation and Landscaping (<u>1.19</u> Acres)
- 12. Site cleanup and Removal of Temporary BMPs (2.07 Acres)

Maximum total construction time is not expected to exceed 12 months.

# Temporary Best Management Practices and Measures

- A. There is no stormwater that originates up gradient from the site that will flow across 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 stormwater 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.

### Request To Temporarily Seal a Feature

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

### **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 downgradient 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 site plan *(Exhibit 1)* and details and specifications are provided in *Exhibit 2* which can be found at the end of this report under Section 7.

### 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 were access is not necessary. A rock stabilized construction entrance should be used at all designated access points.

### 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.

### 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:

TEMPORARY STORMWATER SECTION ATTACHMENT F

- 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.

### Drainage Area Map

There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Existing and proposed drainage area maps are provided at the end of this form to support the aforementioned requirement.

# Temporary Sediment Pond(s) Plans And Calculations

The proposed development will not disturb areas over 10 acres. Therefore, temporary sediment ponds are not proposed.

### 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.

- $\square$ 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.
- $\square$ 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 "drv" 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, pollutants 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).

**TEMPORARY STORMWATER SECTION** ATTACHMENT I

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 noncompliance 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 that 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 14<sup>th</sup> 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 14<sup>th</sup> 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 of 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.

TEMPORARY STORMWATER SECTION ATTACHMENT J

- Straw bale dike will be inspected and repaired as necessary.
- Diversion dike will be inspected and any breaches 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 the off-site conveyance, then the permittee must to 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 stormwater controls. Following an inspection, deficiencies should be corrected no later than seven (7) calendar days after the inspection.

### Inspector Qualifications Log\*

| Inspector Name:<br>Qualifications (Check as appropriate and provide description):<br>Training Course<br>Supervised Experience<br>Other |
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| Inspector Name:<br>Qualifications (Check as appropriate and provide description):<br>Training Course<br>Supervised Experience<br>Other |
| Inspector Name:<br>Qualifications (Check as appropriate and provide description):<br>Training Course<br>Supervised Experience<br>Other |
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| Inspector Name:<br>Qualifications (Check as appropriate and provide description):<br>Training Course<br>Supervised Experience<br>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

| No. | Description of the Amendment | Date of<br>Amendment | Amendment Prepared by [Name(s) and Title] |
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### Construction Activity Sequence Log

| Name of Operator | Projected dates<br>Month/year | Activity Disturbing Soil clearing, excavation, etc. | Location on-site<br>where activity will be<br>conducted | Acreage<br>being<br>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

| Stormwater Control | Location On-Site | Installation<br>Date | Removal<br>Date |
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### Stabilization Activities Log

| Date Activity<br>Initiated | Description of Activity | Description of Stabilization Measure and<br>Location | Date Activity Ceased<br>(Indicate Temporary<br>or Permanent) | Date When<br>Stabilization<br>Measures<br>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

| Date | Frequency Schedule and Reason for Change |
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### Rain Gauge Log

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|   | General Information   |  |              |  |                 |  |  |  |  |
|---|---|--|--------------|--|-----------------|--|--|--|--|
| Name of Project   |   |  | Tracking No. |  | Inspection Date |  |  |  |  |
| Inspector Name, T<br>Contact Informatic   |   |  |              |  |                 |  |  |  |  |
| Present Phase of Co   | onstruction   |  |              |  |                 |  |  |  |  |
| Inspection Location<br>inspections are require<br>location where this ins<br>being conducted)   | ed, specify   |  |              |  |                 |  |  |  |  |
| Standard Frequ<br>Increased Frequ<br>Reduced Frequ<br>- Once per n<br>- Once per n  | Inspection Frequency         Standard Frequency:       Weekly       Every 14 days and within 24 hours of a 0.25" rain         Increased Frequency:       Every 7 days and within 24 hours of a 0.25" rain         Reduced Frequency:       Once per month (for stabilized areas)         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)         Once per month (for frozen conditions where earth-disturbing activities are being conducted) |  |              |  |                 |  |  |  |  |
| If yes, how did<br>Rain gauge on  | Was this inspection triggered by a 0.25" storm event? Yes No<br>If yes, how did you determined whether a 0.25" storm event has occurred?<br>Rain gauge on site Weather station representative of site. Specify weather station source:<br>Total rainfall amount that triggered the inspection (in inches):  |  |              |  |                 |  |  |  |  |
| Unsafe Conditions for Inspection<br>Did you determine that any portion of your site was unsafe for inspection? Yes No<br>If "yes", complete the following:<br>- Describe the conditions that prevented you from conducting the inspection in this location: |   |  |              |  |                 |  |  |  |  |
| - Location(   | - Location(s) where conditions were found:  |  |              |  |                 |  |  |  |  |

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

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

| Stabilization of Exposed Soil |  |   |                   |  |  |
|-------------------------------|--|---|-------------------|--|--|
| Stabilization Area            | Stabilization Method   | Have You Initiated Stabilization?                 | Notes             |  |  |
| 1.                            |  | ☐ YES ☐ NO<br>If yes, provide date:               |                   |  |  |
| 2.                            |  | ☐ YES ☐ NO<br>If yes, provide date:               |                   |  |  |
| 3.                            |  | ☐ YES ☐ NO<br>If yes, provide date:               |                   |  |  |
| 4.                            |  | ☐ YES ☐ NO<br>If yes, provide date:               |                   |  |  |
| 5.                            |  | YES NO If yes, provide date:                      |                   |  |  |
|                               | Description of I   | Discharges  |                   |  |  |
|                               | ner discharge occurring from any pain<br>nformation for each point of dischai  | rt of your site at the time of the inspec<br>rge: | ction? 🗌 Yes 🗌 No |  |  |
| 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?<br>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?<br>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?<br>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: |   |                   |  |  |

## Kimley *Whorn*

#### 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:

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<br>"Duly Authorized Representative": | Date: |
|--|-------|
| Printed Name and Affiliation:                                  |       |

Date:

| Section A – Initial Report<br>(Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action)  |                    |   |  |  |
|---|--------------------|---|--|--|
| Name of Project Tracking  |                    | 5   | Today's Date   |  |
| Date Problem First Discovered   |                    | Time Problem First Discovered                                 |  |  |
| Name and Contact Information of Individual Completing this<br>Form  |                    |   |  |  |
| What site conditions triggered the requirement to conduct correct A required stormwater control was never installed, was installed and maint A prohibited discharge has occurred or is occurring  | alled incorrectly  | y, or not in accordan<br>fective enough for th                | ce with the requirements in Part 2 and/or 3<br>ne discharge to meet applicable water quality standards |  |
| Provide a description of the problem:   |                    |   |  |  |
| Deadline for completing corrective action (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):    |                    |   |  |  |
| 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: |                    |   |  |  |
| Section B – Corrective Action Progress<br>(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.  |                    |   |  |  |
| 3.  |                    | 3.  |  |  |
| Section B.2 – Stormwater Control Modifications to be  | Implemented        | to Correct the Pr   | oblem  |  |
| List of Stormwater Control Modification(s) Needed to Correct<br>Problem (Add an additional sheet if necessary)  | Completion<br>Date | SWPPP Update Necessary?                                       | Notes  |  |
| 1.  |                    | ☐Yes ☐No<br>Date:   |  |  |
| 2.  |                    | □Yes □No<br>Date:   |  |  |
| 3.  |                    | □Yes □No<br>Date:   |  |  |

| Section A – Initial Report<br>(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 Firs                                 | st Discovered   |  |  |  |  |
| Name and Contact Information of Individual Completing this Form   |   |   |   |  |  |  |  |
| What site conditions triggered the requirement to conduct corr<br>A required stormwater control was never installed, was inst<br>The stormwater controls that have been installed and main<br>A prohibited discharge has occurred or is occurring | alled incorrectly   |   |   |  |  |  |  |
| Provide a description of the problem:   |   |   |   |  |  |  |  |
| Deadline for completing corrective action ( <i>Enter date that is ei</i><br>infeasible to complete work within the first 7 days, enter the da   |   |   |   |  |  |  |  |
| If your estimated date of completion falls after the 7-day deadli<br>date you have established for making the new or modified storr   | ne, explain (1) v<br>nwater control (   | vhy you believe it is i<br>operational is the soc | nfeasible to complete work within 7 days, and (2) why the<br>onest practicable timeframe: |  |  |  |  |
| Sect<br>(Complete this section <u>no later than 7</u>   |   | ctive Action Progr                                |   |  |  |  |  |
| Section B.1 – Why the Problem Occurred  |   |   |   |  |  |  |  |
| Cause(s) of Problem (Add an additional sheet if necessary)  |   | How This Was Det                                  | termined and the Date You Determined the Cause  |  |  |  |  |
| 1.  |   | 1.  |   |  |  |  |  |
| 2.  |   | 2.  |   |  |  |  |  |
| 3.  |   | 3.  |   |  |  |  |  |
| Section B.2 – Stormwater Control Modifications to be  | Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem |   |   |  |  |  |  |
| List of Stormwater Control Modification(s) Needed to Correct<br>Problem (Add an additional sheet if necessary)  | Completion<br>Date  | SWPPP Update Necessary?                           | Notes   |  |  |  |  |
| 1.  |   | ☐Yes ☐No<br>Date:                                 |   |  |  |  |  |
| 2.  |   | ☐Yes ☐No<br>Date:                                 |   |  |  |  |  |
| 3.  |   | □Yes □No<br>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<br>to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the<br>system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true,<br>accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for<br>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<br>"Duly Authorized Representative":   | Date: |  |  |  |  |
| Printed Name and Affiliation:  |       |  |  |  |  |
|  |       |  |  |  |  |

# Kimley **»Horn**

# SECTION 4: Additional Forms

#### WS-COS Investments, LLC 3303 Quiet Glen Drive Kingwood, Texas 77345

July 12, 2023

RE: Authorization Regarding the Development on Lot 7, Block A Sweetwater Crossing Phase 2

To whom it may concern:

KBC TX Investments, LLC is currently under contract to purchase the above referenced property from WS-COS Investments, LLC. KBC TX Investments, LLC intends to assign their rights and obligations under the contract to a new entity, Velocis Bee Cave JV, LP, a Delaware Limited Partnership. Please accept this letter as verification that Velocis Bee Cave JV, LP and its engineers are hereby authorized to act as our agent(s) for the purpose of filing construction plans and all other necessary applications to any required entity for development on the referenced property currently owned by WS-COS Investments, LLC.

Best Regards WS-COS Investments, LLC

By: Michael I Authorized Signatory

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

| 1               | Paul Smith   |             |
|-----------------|--|-------------|
| ·               | Print Name   | ,           |
|                 | Vice President   |             |
|                 | Title - Owner/President/Other                                  |             |
| of              | Velocis Bee Cave JV, LP<br>Corporation/Partnership/Entity Name | . <u></u> j |
| have authorized | Bryce Barr, P.E.<br>Print Name of Agent/Engineer               |             |
| of              | Kimley-Horn and Associates, Inc.<br>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.

TCEQ-0599 (Rev.04/01/2010)

SIGNATURE PAGE:

Smit

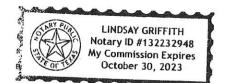
Applicant's Signature

Date

THE STATE OF § § County of M

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 1/2 day of \_\_\_\_\_\_, 202



ped or Printed Name of Notary

MY COMMISSION EXPIRES: 10.30.23

# Application Fee Form

Kimley **»Horn** 

| Ν      | <b>Texas Commission on Environ</b><br>Name of Proposed Regulated En<br>Regulated Entity Location: <u>16900</u>   | tity: Sweetwater Crossing |                         |                      |  |  |  |
|--------|--|---------------------------|-------------------------|----------------------|--|--|--|
| F<br>F | Name of Customer: <u>Velocis Bee (</u><br>Phone: <u>(214) 702-0220</u> Custome<br>Regulated Entity Reference Num<br>Austin Regional Office (3373)  | r Reference Number (if is |                         | -                    |  |  |  |
|        | 🗌 Hays   | 🛛 Travis                  | 🗌 Will                  | iamson               |  |  |  |
| S      | San Antonio Regional Office (3   | 362)                      |                         |                      |  |  |  |
|        | Bexar Comal  | Medina Kinney             | 🗌 Uva                   | llde                 |  |  |  |
| C      | Application fees must be paid<br>Commission on Environmental<br>nust be submitted with your fe   | Quality. Your canceled    | check will serve as you | ur receipt. This for |  |  |  |
|        | <ul> <li>Austin Regional Office</li> <li>Mailed to: TCEQ - Cashier</li> <li>Revenues Section</li> <li>Mail Code 214</li> <li>P.O. Box 13088</li> <li>Austin, TX 78711-3088</li> <li>San Antonio Regional Office</li> <li>Overnight Delivery to: TCEQ - Cashier</li> <li>12100 Park 35 Circle</li> <li>Building A, 3rd Floor</li> <li>Austin, TX 78711-3088</li> <li>(512)239-0357</li> </ul> |                           |                         |                      |  |  |  |
| S      | Site Location (Check All That A  |                           | <b>—</b> -              |                      |  |  |  |
| L      | _ Recharge Zone  | Contributing Zone         |                         | nsition Zone         |  |  |  |
|        | Type of P  |                           | Size                    | Fee Due              |  |  |  |
|        | Water Pollution Abatement F<br>Plan: One Single Family Reside  |                           | N/A Acres               | \$ 0                 |  |  |  |
|        | Water Pollution Abatement F<br>Plan: Multiple Single Family Re   |                           | N/A Acres               | \$ O                 |  |  |  |
|        | Water Pollution Abatement F<br>Plan: Non-residential   | Plan, Contributing Zone   | 23.19 Acres             | \$ 6,500             |  |  |  |
|        | Sewage Collection System   |                           | N/A L.F.                | \$ 0                 |  |  |  |
|        | Lift Stations without sewer lines  | 3                         | N/A Acres               | \$ 0                 |  |  |  |
|        | Underground or Aboveground   | Storage Tank Facility     | 0 Tanks                 | \$ 0                 |  |  |  |
|        | Piping System(s)(only)   |                           | N/A Each                | \$ 0                 |  |  |  |
|        | Exception  |                           | N/A Each                | \$ 0                 |  |  |  |
|        | Extension of Time  |                           | N/A Each                | \$0                  |  |  |  |
|        |  |                           |                         | ÷                    |  |  |  |

Signature:

Date: 07/12/2023

# Kimley **»Horn**

#### Application Fee Schedule

#### Texas Commission on Environmental Quality

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

#### 1. Water Pollution Abatement Plans and Modifications

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

#### 2. Contributing Zone Plans and Modifications

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

# 4. Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

#### 5. Exception Requests

| Project           | Fee   |  |  |  |  |
|-------------------|-------|--|--|--|--|
| Exception Request | \$500 |  |  |  |  |

#### 6. Extension of Time Requests

| Project                   | Fee   |
|---------------------------|-------|
| Extension of Time Request | \$150 |

Check Payable to the "Texas Commission on Environmental Quality"

# Core Data Form

Additional Forms TCEQ-10400 (Rev. 04-15)



## **TCEQ** Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175. SECTION I: General Information

| 1. Reason for Submission (If other is checked please describe in space provided.)  |   |                                     |                             |              |                            |                                 |  |
|--|---|-------------------------------------|-----------------------------|--------------|----------------------------|---------------------------------|--|
| New Permit, Registration or Author   | ,   |                                     | 1                           |              |                            | .)                              |  |
| Renewal (Core Data Form should be submitted with the renewal form)   |   |                                     |                             |              |                            |                                 |  |
| 2. Customer Reference Number (if issu  | ied)                                      | Follow this link                    |                             | 3. Re        | gulated Entity Reference   | e Number (if issued)            |  |
| CN   |   | for CN or RN n                      |                             | RN           |                            |                                 |  |
| SECTION II: Customer Informa   | tion                                      | Central Re                          | <u>gistry</u>               |              |                            |                                 |  |
| 4. General Customer Information  | 5. Effective Da                           | ate for Custome                     | r Informatio                | on Upda      | ates (mm/dd/yyyy)          |                                 |  |
| New Customer<br>Change in Legal Name (Verifiable v   | •   | odate to Custom<br>cretary of State |                             |              | v                          | Regulated Entity Ownership      |  |
| The Customer Name submitter<br>Texas Secretary of State (SOS   | •   | •                                   |                             | •            |                            | rent and active with the        |  |
| 6. Customer Legal Name (If an individua  | ıl, print last name fir                   | rst: e.g.: Doe, Joh                 | n)                          | <u>lf ne</u> | w Customer, enter previo   | ous Customer below:             |  |
|  |   |                                     |                             |              |                            |                                 |  |
| 7. TX SOS/CPA Filing Number  | 8. TX State Ta                            | ax ID (11 digits)                   |                             | 9. Fe        | ederal Tax ID (9 digits)   | 10. DUNS Number (if applicable) |  |
| 11. Type of Customer: Corpora  | ition                                     | 📃 Indi                              | vidual                      |              | Partnership: 🗌 Genera      | I Limited                       |  |
| Government: City County Federa   | State Other                               | Sole                                | e Proprietor                | ship         | Other:                     |                                 |  |
| 12. Number of Employees  |   |                                     |                             |              | ndependently Owned a       | nd Operated?                    |  |
| 0-20 21-100 101-250  | 251-500                                   | 501 and hi                          | gher                        |              | Yes No                     |                                 |  |
| 14. Customer Role (Proposed or Actual)   | - as it relates to the                    | e Regulated Entity                  | y listed on thi             | is form. I   | Please check one of the fo | Ilowing:                        |  |
|  | rator<br>oonsible Party                   |                                     | er & Operato<br>tary Cleanu |              | cant Other:                |                                 |  |
|  |   |                                     |                             | ip Appil     |                            |                                 |  |
| 15. Mailing<br>Address:  |   |                                     |                             |              |                            |                                 |  |
| City   |   | State                               | Z                           |              | 75201                      | ZIP + 4                         |  |
| 16. Country Mailing Information (if outsid   | e USA)                                    |                                     | 17. E-N                     | /ail Ado     | dress (if applicable)      |                                 |  |
|  |   |                                     |                             |              |                            |                                 |  |
| 18. Telephone Number   | 1   | 19. Extension or                    | Code                        |              | 20. Fax Number             | (if applicable)                 |  |
| (972) 974 - 6178   |   |                                     |                             |              | ( ) -                      |                                 |  |
| SECTION III: Regulated Entity  | SECTION III: Regulated Entity Information |                                     |                             |              |                            |                                 |  |
| 21. General Regulated Entity Information (If `New Regulated Entity" is selected below this form should be accompanied by a permit application)                 |   |                                     |                             |              |                            |                                 |  |
| New Regulated Entity Update to Regulated Entity Name Update to Regulated Entity Information  |   |                                     |                             |              |                            |                                 |  |
| The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal<br>of organizational endings such as Inc, LP, or LLC). |   |                                     |                             |              |                            |                                 |  |
| 22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)   |   |                                     |                             |              |                            |                                 |  |
|  |   |                                     |                             |              |                            |                                 |  |
|  |   |                                     |                             |              |                            |                                 |  |

| 22. Use Multi-Right Autores of the Right and Entry Right and   | 23. Street Address of the     |                                 |                          |               |                 |                       |                |                           |
|--|-------------------------------|---------------------------------|--------------------------|---------------|-----------------|-----------------------|----------------|---------------------------|
| City         State         ZIP         / 18/38         ZIP 4           24. County         Enter Physical Location Description if no street address is provided.         State         Nearest ZIP Code           25. Description to<br>Physical Location:         State         Nearest ZIP Code         78/738           27. Latitude (N) In Decimal:         28. Longitude (W) In Decimal:         78/738         78/738           29. Primary SIC Code (4 digits)         30. Secondary SIC Code (4 digits)         31. Primary NAICS Code<br>(5 or 6 digits)         32. Secondary NAICS Code<br>(5 or 6 digits)         32. Secondary NAICS Code<br>(5 or 6 digits)           34. Mailing<br>Address:         City         State         ZIP         78738         ZIP + 4           35. E-Mail Address:         36. Telephone Number         37. Extension or Code         38. Fex Number (fi applicable)<br>(9 72 97 4 - 6178         (1)           39. TECE Programs and Number. Cock al Programs and white in the permital/registration numbers that will be affected by the updates submited on this form. See the Core Data<br>Form Instructions for additional guidance.         Industrial Hazardous Waste           39. TECE Programs and Number. Cock al Programs and white in the permital/registration numbers that will be affected by the updates submited on this form. See the Core Data<br>Form Instructions for additional guidance.         Industrial Hazardous Waste           10. Municipal Solid Waste         Nearest Agricutture         Industrial Hazardous Waste  | Regulated Entity:             |                                 |                          |               |                 |                       |                |                           |
| Enter Physical Location Description if no street address is provided.  25. Description to Physical Location:  26. Nearest City  27. Latitude (N) In Decimal:  28. Longitude (W) In Decimal:  29. Primary SiC Code (4 digits)  30. Secondary SiC Code (4 digits)  31. Primary NAICS Code (5 or 6 digits)  33. What is the Primary Business of this entity?  34. Mailing Address:  35. E-Mail Address:  36. Telephone Number  37. Extension or Code  38. Fax Number (ff applicable)  (g72)- 974 - 6178  (g) - 5  39. TERP Programs and ID Numbers Cineck all Programs and write in the permitshegistration numbers that wite effected by the updates submitted on this form. See the Core Data Form instructions relational guidance  39. TERP Programs and ID Numbers Cineck all Programs and write in the permitshegistration numbers that wite effected by the updates submitted on this form. See the Core Data Form instructions relational guidance  39. TERP Programs and Water  30. Telephone Number  40. Tritle V Air  41. Tritle:  42. Telephone Number  43. Ext./Code  44. Fax Number  45. E-Mail Address  45. E-Mail | (No PO Boxes)                 | City                            | State                    |               | ZIP             | 78738                 | ZIP +          | - 4                       |
| 25. Description to Physical Location: 26. Nearest City State Parenest City Parenest Par | 24. County                    |                                 |                          |               |                 |                       |                |                           |
| Physical Location:       State       Nearest ZIP Code         28. Nearest City       State       Nearest ZIP Code         29. A littlude (N) In Decimal:       Seconds       Degrees       Minutes       Seconds         29. Primary SIC Code (4 digls)       30. Secondary SIC Code (4 digls)       31. Primary NAICS Code       25. Secondary NAICS Code       (5 or 6 diglts)       32. Secondary NAICS Code         33. What is the Primary Business of this entity?       (Do not repeat the SIC or NAICS description )       32. Secondary NAICS Code       (5 or 6 diglts)       32. Secondary NAICS Code         34. Mailing       Address:       City       State       ZIP       78738       ZIP + 4       14         35. E-Mail Address:       City       State       ZIP       78738       ZIP + 4       16         36. Telephone Number       37. Extension or Code       38. Fax Number (fi applicable)       16  |                               | Enter Physical Lo               | cation Description i     | f no street a | address is p    | provided.             |                |                           |
| 27. Latitude (N) In Decimal:       28. Longitude (W) In Decimal:       In Decimal:         Degrees       Minutes       Seconds       Degrees       Minutes       Seconds         28. Primary SIC Code (4 digits)       30. Secondary SIC Code (4 digits)       31. Primary NAICS Code       32. Secondary NAICS Code (5 or 6 digits)         33. What is the Primary Business of this entity?       (Do not repeat the SIC or NAICS description.)       33. What is the Primary Business of this entity?       (Do not repeat the SIC or NAICS description.)         34. Mailing   |                               |                                 |                          |               |                 |                       |                |                           |
| 27. Latitude (N)       In Decimal:       28. Longitude (W)       In Decimal:         Degrees       Minutes       Seconds       Degrees       Minutes       Seconds         29. Primary SIC Code (4 digits)       30. Secondary SIC Code (4 digits)       31. Primary NAICS Code<br>(5 or 6 digits)       32. Secondary NAICS Code<br>(5 or 6 digits)         33. What is the Primary Business of this entity?       (Do not repeat the SIC or NAICS description.)         34. Mailing<br>Address:       City       State       ZIP       78738       ZIP + 4         35. E-Mail Address:       City       State       ZIP       78738       ZIP + 4         35. Telephone Number       37. Extension or Code       38. Fax Number (fi applicable)       (g72) - 974 - 6178       (g)       -         39. TEEQ 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<br>From instructors for additional gudance.       Industrial Hazardous Waste         Dam Safety       Districts       Edwards Aquifer       Emissions Inventory Air       Industrial Hazardous Waste         Municipal Solid Waste       New Source Review Air       OSSF       Petroleum Storage Tank       PWS         Storuge       Istor       Itele V Air       Tires       Used Oit         Voluntary Cleanup       <  | 26. Nearest City              |                                 |                          |               |                 | State                 |                |                           |
| Degrees       Minutes       Seconds       Degrees       Minutes       Seconds         29. Primary SIC Code (4 digits)       30. Secondary SIC Code (4 digits)       31. Primary NAICS Code       32. Secondary NAICS Code         33. What is the Primary Business of this entity?       (Do not repeat the SIC or NAICS description.)       (5 or 6 digits)       32. Secondary NAICS Code         34. Mailing<br>Address:  |                               |                                 |                          | -             |                 |                       |                | 78738                     |
| 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)         33. What is the Primary Business of this entity?       (De not repeat the SIC or NAICS description.)       32. Secondary NAICS Code (5 or 6 digits)         34. Mailing Address:   | . ,                           | l:                              |                          |               | gitude (W)      |                       | T              |                           |
| 22. Frimary Sic Code (Highs) and Seconder Vision (5 or 6 digits) (3 or 8 digits) (5 or 6 digits) (4 or 8 digits) (5 or 6 digit | Degrees                       | Minutes S                       | econds                   | Degrees       |                 | Minutes               | Sec            | conds                     |
| 23. Primary Sic Code (+ lights) and Second equipes) (5 or 6 digits) (5 or 6 di |                               |                                 |                          |               |                 |                       |                |                           |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)  34. Mailing Address:  34. Mailing Address:  35. E-Mail Address:  36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  38. Telephone Number 37. Extension or Code 38. Fax Number (if applicable) (972)-974 - 6178  39. TECe 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.  39. TECe Programs and JD 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.  39. TECe Programs and JD 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.  39. TECe Programs and JD Numbers Check all Programs and write in the varia submitted on this form. See the Core Data Form instructions for additional guidance.  30. Districts  40. Nuncipal Solid Waste  40. Numer  40. Name:  41. Title:  41. Title:  42. Telephone Number  43. Ext./Code  44. Fax Number  45. E-Mail Address  45. E-Mail Ad | 29. Primary SIC Code (4 digit | s) 30. Secondary SIC C          |                          |               | NAICS Co        |                       | •              | IAICS Code                |
| 34. Mailing<br>Address:       City       State       ZIP       78738       ZIP + 4         35. E-Mail Address:       37. Extension or Code       38. Fax Number (if applicable)         36. Telephone Number       37. Extension or Code       38. Fax Number (if applicable)         (972)- 974 - 6178       ()       -         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.       I         Dam Safety       Districts       Edwards Aquifer       Emissions Inventory Air       Industrial Hazardous Waste         Municipal Solid Waste       New Source Review Air       OSSF       Petroleum Storage Tank       PWS         Sludge       Storm Water       Title V Air       Tires       Used Oil         Sludge       Storm Water       Wastewater Agriculture       Water Rights       Other:         Voluntary Cleanup       Waste Water       Wastewater Agriculture       41. Title:         40. Name:       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-41151       ()       -       -       -  |                               |                                 |                          |               |                 |                       | o digito/      |                           |
| Address:         City         State         ZIP         78738         ZIP + 4           35. E-Mail Address:         37. Extension or Code         38. Fax Number (if applicable)           36. Telephone Number         37. Extension or Code         38. Fax Number (if applicable)           (972)- 974 - 6178         (         -           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.   | 33. What is the Primary Bus   | iness of this entity? (Do not r | epeat the SIC or NAICS   | description.) |                 |                       |                |                           |
| Address:         City         State         ZIP         78738         ZIP + 4           35. E-Mail Address:         37. Extension or Code         38. Fax Number (if applicable)           36. Telephone Number         37. Extension or Code         38. Fax Number (if applicable)           (972)- 974 - 6178         (         -           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.   |                               | Γ                               |                          |               |                 |                       |                |                           |
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| (972)-974-6178       (         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.         Dam Safety       Districts       Edwards Aquifer       Emissions Inventory Air       Industrial Hazardous Waste         Municipal Solid Waste       New Source Review Air       OSSF       Petroleum Storage Tank       PWS         Sludge       Storm Water       Title V Air       Tires       Used Oil         Voluntary Cleanup       Waste Water       Wastewater Agriculture       Water Rights       Other:         40. Name:       43. Ext./Code       44. Fax Number       45. E-Mail Address       (1) - 1  | 35. E-Mail Address:           |                                 |                          |               |                 |                       |                |                           |
| 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.         Dam Safety       Districts       Edwards Aquifer       Emissions Inventory Air       Industrial Hazardous Waste         Municipal Solid Waste       New Source Review Air       OSSF       Petroleum Storage Tank       PWS         Sludge       Storm Water       Title V Air       Tires       Used Oil         Voluntary Cleanup       Waste Water       Wastewater Agriculture       Water Rights       Other:         40. Name:       41. Title:       41. Title:       42. Telephone Number       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-4151       (       -       -       -       -   | 36. Telepho                   | ne Number                       | 37. Extension            | or Code       |                 | 38. Fax Numb          | per (if appl   | icable)                   |
| Form instructions for additional guidance.         Image: Ima                                 | (972)- 97                     | 74 - 6178                       |                          |               |                 | ( )                   | -              |                           |
| Image: Section Number       Image: Section Nu  |                               |                                 | the permits/registration | numbers that  | will be affecte | d by the updates subr | nitted on this | s form. See the Core Data |
| Sludge Storm Water   Storm Water   Title V Air   Tires   Used Oil   Voluntary Cleanup   Waste Water   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Voluntary Cleanup   Vo   | 🔲 Dam Safety                  | Districts                       | Edwards Aqu              | uifer         | Emiss           | ions Inventory Air    | lndus          | trial Hazardous Waste     |
| Sludge Storm Water   Storm Water   Title V Air   Tires   Used Oil   Voluntary Cleanup   Waste Water   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Water Rights   Other:   Other:   Voluntary Cleanup   Voluntary Cleanup   Waste Water   Wastewater Agriculture   Voluntary Cleanup   Vo   |                               |                                 |                          |               |                 |                       |                |                           |
| Image: Constraint of the second se                                | Municipal Solid Waste         | New Source Review Air           | OSSF                     |               | Petrole         | um Storage Tank       | D PV           | VS                        |
| Image: Constraint of the second se                                |                               |                                 |                          |               |                 |                       |                |                           |
| 40. Name:       41. Title:         42. Telephone Number       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-4151       () -       -       -  | Sludge                        | Storm Water                     | 🔲 Title V Air            |               | 🗌 Tires         |                       | 🗌 Us           | ed Oil                    |
| 40. Name:       41. Title:         42. Telephone Number       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-4151       () -       -       -  |                               |                                 |                          |               |                 |                       |                |                           |
| 40. Name:       41. Title:         42. Telephone Number       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-4151       () -       -       -  | Voluntary Cleanup             | Waste Water                     | Wastewater Agricultu     |               | Water Rights    |                       | Oth            | er:                       |
| 40. Name:       41. Title:         42. Telephone Number       43. Ext./Code       44. Fax Number       45. E-Mail Address         (512)-900-4151       () -       -       -  |                               |                                 |                          |               |                 |                       |                |                           |
| 42. Telephone Number     43. Ext./Code     44. Fax Number     45. E-Mail Address       (512)-900-4151     ( ) -     -  | SECTION IV: Preparer          | Information                     | T                        |               |                 |                       |                |                           |
| (512)-900-4151   | 40. Name:                     |                                 |                          |               | 41. Title:      |                       |                |                           |
|  | 42. Telephone Number          | 43. Ext./Code                   | 44. Fax Number           |               | 45. E-Mai       | Address               |                |                           |
| SECTION V: Authorized Signature  | (512)-900-4151                |                                 | ( ) -                    |               |                 |                       |                |                           |
|  |                               | ed 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:        | Job Title: |                |
|-----------------|------------|----------------|
| Name(In Print): | Phone:     | (512)-900-4151 |
| Signature: BR-  | Date:      | 07/12/2023     |

#### APPLICATION DATE: 02/23/2023

EXISTING USE: UNDEVELOPED

PROPOSED USE: DISTRIBUTION FACILITY / PARKING LOT - NONCOMMERICIAL

LEGAL DESCRIPTION: LOT 7, BLOCK "A", OF SWEETWATER CROSSING PHASE TWO, FINAL PLAT

TOTAL SITE AREA: 23.19 ACRES

TOTAL IMPERVIOUS COVER: 15.57 ACRES

DOWNSTREAM RECEIVING WATERS: LITTLE BARTON CREEK (SOUTH) & HURST CREEK (NORTH)

WATER PROVIDER: LAZY NINE MUD NO. 1A

WASTEWATER PROVIDER: LAZY NINE MUD NO. 1A RELATED CASES:

SWEETWATER CROSSING - PHASE 1 CONSTRUCTION PLANS, DATED OCTOBER 2016 BY MALONE WHEELER INC.

## SWEETWATER CROSSING - PHASE 2

CONSTRUCTION PLANS, DATED JANUARY 2017 BY MALONE WHEELER INC.

- GENERAL PLAN NOTES: THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY. IN APPROVING THESE PLANS, TRAVIS COUNTY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER
- RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF
- RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE
- COMPLIANCE BY CITY ENGINEERS. AS PART OF THIS SITE PLAN, THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO BE ON SITE AT ALL
- TIMES THIS SITE IS NOT LOCATED WITHIN THE 100-YEAR OR 500-YEAR FLOODPLAIN PER FEMA FIRM MAP NO. 48453C0385J, TRAVIS COUNTY, TEXAS AND INCORPORATED AREAS (EFFECTIVE JANUARY 22, 2020).
- THERE ARE NO KNOWN CRITICAL ENVIRONMENTAL FEATURES ON THIS SITE.
- THIS SITE IS OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE AS DEFINED AND REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, A CZP WILL BE
- REQUIRED THE DISTURBED AREAS WITHIN THIS PROJECT SHALL BE REVEGETATED AND ALL PERMANENT EROSION/SEDIMENTATION CONTROLS COMPLETED PRIOR TO THE RELEASE OF FISCAL SURETY FOR THAT PHASE, TEMPORARY EROSION/ SEDIMENTATION CONTROLS SHALL ADJUSTED AS NEEDED PRIOR TO THIS RELEASE TO ENSURE THAT SUBSEQUENT PHASE DISTURBED AREAS ARE ADEQUATELY COVERED, ANY AREA WITHIN THE LIMIT OF DISTURBANCE OF THE PROJECT WHICH IS NOT ADEQUATELY REVEGETATED SHALL BE
- BROUGHT INTO COMPLIANCE PRIOR TO THE RELEASE OF THE FINAL PHASE. NO STRUCTURES CAN BE BUILT WITHIN WATER & WASTEWATER EASEMENTS. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE
- ESSENTIALLY "LEAD FREE" ACCORDING TO THE U.S. SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS AND BACKFLOW PREVENTERS, FIRE HYDRANTS, TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER
- AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED. 10. BY THE ACT OF SUBMITTING A BID FOR THE
- PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE BIDDER, AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSE INTENDED. THE BIDDER FURTHER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTORS AND MATERIALS SUPPLIERS KNOWLEDGE ALL MATERIALS AND
- PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES. SPECIFICATIONS SHOULD BE FOLLOWED FOR
- ALL IMPROVEMENTS SHOWN HEREIN. 12. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH

I BRYCE BARR, P.E. TEXAS LICENSE NUMBER 147739 CERTIFY THAT THE DESIGN OF THE DAM IN THIS SET OF PLANS CAN SAFELY PASS 75-PERCENT OF THE PROBABLE MAXIMUM FLOOD BASED ON THE HYDROLOGIC, HYDRAULIC, STRUCTURAL, AND GEOTECHNICAL ANALYSIS USING STANDARD ACCEPTED ENGINEERING PRACTICES.

ADMINISTRATION. (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE: INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 EAST 6TH STREET, AUSTIN, TEXAS).

- 13. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" CENTER @ 811 TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- . CONTRACTOR SHALL RESTORE ALL SIGNS AND PAVEMENT MARKINGS TO EXISTING CONDITIONS FOLLOWING THE COMPLETION OF CONSTRUCTION. CONTRACTORS SHALL REFER TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) FOR SIGN AND MARKING DIMENSIONS AND COLOR
- 15. CONTACT LCRA AT 512-578-2324 FOR THE REQUIRED PRE-CONSTRUCTION MEETING ONCE ALL TEMPORARY ESC HAS BEEN INSTALLED AND BEFORE ANY CONSTRUCTION BEGINS
- 16. DRAINAGE FOR THIS DEVELOPMENT HAS BEEN DESIGNED SUCH THAT THERE WILL BE NO ADVERSE IMPACTS ON THE CAPACITY, FUNCTION OR INTEGRITY OF TEXAS DEPARTMENT OF TRANSPORTATION RIGHT OF
- WAY DRAINAGE FACILITIES. 17. THE OWNER'S ENGINEER WILL MAKE PERIODIC SITE VISITS AND OBSERVATIONS DURING CONSTRUCTION TO ENSURE ADEQUACY OF THE DESIGN AND THE SAFETY OF STRUCTURES IN COMPLIANCE WITH THE ISSUANCE OF THE CONSTRUCTION SUMMARY REPORT AND ENGINEERING CONCURRENCE LETTER AS REQUIRED AS PART OF THE PROJECT CLOSE-OUT PROCESS
- 18. ALL STRUCTURAL FIELD CHANGES REQUIRE A PLAN REVISION APPROVAL IN WRITING BEFORE COMMENCEMENT OF THE WORK

## WATER QUALITY AND DETENTION

WATER QUALITY AND DETENTION HAS BEEN PROVIDED ONSITE OR IN EASEMENTS OBTAINED BY DEVELOPER. ALL PONDS PROPOSED IN THIS SITE PLAN ARE TO BE PRIVATELY MAINTAINED

INDEMNIFICATION NOTE:

THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY. IN APPROVING THESE PLANS, THE LAZY NINE MUD 1A MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

TRAVIS COUNTY TRANSPORTATION AND NATURAL **RESOURCES PRE-CONSTRUCTION NOTES** 

PRIOR TO SCHEDULING THE PRE-CONSTRUCTION MEETING ENSURE THAT ALL **REQUIRED NOTICES AND PERMITS ARE POSTED** AND THE CERTIFIED INSPECTOR FOR YOUR SITE HAS UPLOADED A SWP3 INSPECTION REPORT TO YOUR ACCOUNT THAT CONFIRMS THAT THE FIRST PHASE OF TEMPORARY ESC HAVE BEEN INSTALLED PER PLANS AND SPECIFICATIONS.

#### FAILURE TO FOLLOW THE PRE-CONSTRUCTION MEETING REQUIREMENTS MAY **RESULT IN WORK STOPPAGE AND ADDITIONAL** PERMIT FEES.

SPECIAL PRE-CON NOTES:

- 1. PROVIDE 48 HR. MINIMUM NOTICE TO SCHEDULE THE PRE-CON MEETING.
- 2. PROVIDE A 1/2 SIZE SET OF PLANS FOR THE
- INSPECTOR AT THE PRE-CON. 3. PROVIDE AN ANTICIPATED CONSTRUCTION
- SCHEDULE AT THE PRE-CON. 4. BRING YOUR SWP3 FOR COMPLETENESS
- CHECK AT THE PRE-CON.

ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE PLANS APPROVED BY TRAVIS COUNTY.

SCHEDULE YOUR PROJECTS PRE-CONSTRUCTION MEETING THROUGH THE MYPERMITNOW.ORG ACCOUNT AFTER THE INITIAL 3RD PARTY SWP3 INSPECTION REPORT HAS BEEN UPLOADED AND ALL PERMITS AND NOTICES HAVE BEEN POSTED, THEN FOLLOW UP WITH EMAILS TO THE ENVIRONMENTAL INSPECTOR AT ENV-INSPECTION@TRAVISCOUNTYTX.GOV AND THE ENGINEERING INSPECTOR, JOHNNY ANGLIN, AT JOHNNY.ANGLIN@TRAVISCOUNTYTX.GOV

#### LEGAL DESCRIPTION

LOT 7, BLOCK "A", OF SWEETWATER CROSSING PHASE TWO, FINAL PLAT, AN ADDITION IN TRAVIS COUNTY, TEXAS, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED UNDER DOCUMENT NO. 201700213 OF THE OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY, TEXAS.

# LAZY NINE MUD

## LAZY NINE MUD 1A

EMAIL: DENNISL@MALONEWHEELER.COM PHONE: (512) 899-0601

CONTACT: DENNIS LOZANO

# LAZY NINE MUD OPERATOR KBC ADVISORS

LAZY NINE MUD 1A EMAIL: DTATUM@CROSSROADSUS.COM PHONE: (512) 820-8459





# **ENGINEER** (imley >>> Horn

5301 SOUTHWEST PARKWAY **BUILDING 2, SUITE 100** AUSTIN, TEXAS 78735 PH (512) 646-2237 CONTACT BRYCE BARR, PE **TEXAS REGISTRATION NO. F-92** 

## LANDSCAPE ARC

**KIMLEY-HORN** 2600 N. CENTRAL EXPRESSWAY SUITE 400 **RICHARDSON, TX 75080** PHONE: (469)-452-2497 CONTACT: COURTNEY MITCHEL **SURVEYOR** 

### KIMLEY-HORN

10814 JOLLYVILLE ROAD, CAMPUS 200, AUSTIN, TEXAS 78759 PHONE: (512) 572-6674 CONTACT: ZACHARY PETRUS

# ARCHITECT

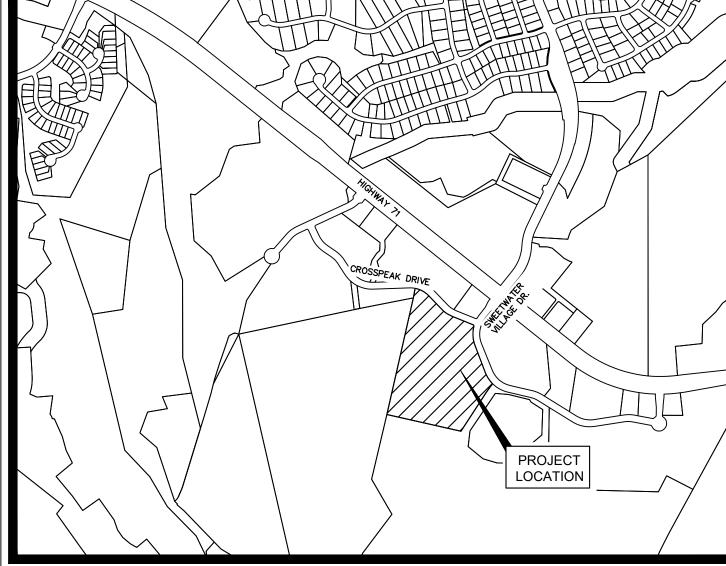
# DEVELOPER

2828 N HARWOOD ST., SUITE 190 **DALLAS, TX 75201** PHONE: (972) 974 - 6178 CONTACT: HUNTLEY LEWIS

# **OWNER**

WS-COS INVESTMENTS LLC 660 STEAMBOAT ROAD GREENWICH, CT 06830 PHONE: (512) 796 - 6601 CONTACT: J. ROBERT LONG

# CIVIL SITE DEVELOPMENT PLANS FOR SWEETWATER CROSSING LAST MILE FACILTY 16900 CROSS PEAK DRIVE **BEE CAVE, TX 78738 SHEET INDEX** Sheet Nur



| 28          | FEBRUARY  | 2023 |        |
|-------------|---|------|--------|
| HITECT      |   |      |        |
| Y           | TRAVIS COUNTY TNR   | DATE |        |
| _L          |   |      |        |
|             | TRAVIS COUNTY DEVELOPMENT PERMIT NUMBER                   | DATE |        |
| S IV, SUITE |   |      |        |
| RPLS        | TRAVIS COUNTY ESD NO. 6                                   | DATE |        |
|             |   |      | TRAVIS |
|             | LAZY NINE MUNICIPAL UTILITY DISTRICT 1A DISTRICT ENGINEER | DATE | No.:   |
|             | TEXAS COMMISSION ON ENVIRONMENTAL QUALITY                 | DATE |        |
| 00          | EAPP ID NO.   | DATE |        |
|             |   |      |        |

'HIS NOTE IS BEING PLACED ON THE PLAN SET IN PLACE OF A TEMPORARY TRAFFIC CONTROL STRATEGY WITH THE FULL UNDERSTANDING THAT, AT A MINIMUM OF 6 VEEKS PRIOR TO THE START OF CONSTRUCTION, A TEMPORARY TRAFFIC CONTRO E REVIEWED AND APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION THE OWNER/REPRESENTATIVE FURTHER RECOGNIZES THAT A REVIEW FEE AS PRESCRIBED BY THE MOST CURRENT VERSION OF THE CITY'S FEE ORDINANCE SHALL BE PAID FACH TIME A PLAN OR PLAN REVISION IS SUBMITTED TO RIGHT OF WAY MANAGEMENT DIVISION FOR REVIEW. THE FOLLOWING MUST BE TAKEN INTO CONSIDERATION WHEN DEVELOPING FUTURE TRAFFIC CONTROL STRATEGIES

PEDESTRIAN AND BICYCLE TRAFFIC ACCESS MUST BE MAINTAINED AT ALL TIMES UNLESS OTHER WISE AUTHORIZED BY RIGHT OF WAY MANAGEMENT

NO LONG-TERM LANE CLOSURES WILL BE AUTHORIZED, UNLESS RIGHT OF WAY MANAGEMENT DETERMINES THAT ADEQUATE ACCOMMODATIONS HAVE BEEN MADE TO MINIMIZE TRAFFIC IMPACT

PROJECT SHOULD BE PHASED SO THAT UTILITY INSTALLATION MINIMALLY IMPACTS EXISTING OR TEMPORARY PEDESTRIAN FACILITIES.

| mber | Sheet Title                             |
|------|---|
|      | COVER SHEET                             |
|      | GENERAL NOTES                           |
|      | KIMLEY-HORN GENERAL NOTES               |
|      | FINAL PLAT (1 OF 2)                     |
|      | FINAL PLAT (2 OF 2)                     |
|      | EXISTING CONDITIONS AND DEMO PLAN       |
|      | TREE LIST                               |
|      | OVERALL SITE PLAN                       |
|      | OVERALL DIMENSION CONTROL PLAN          |
|      | DIMENSION CONTROL PLAN (1 OF 2)         |
|      | DIMENSION CONTROL PLAN (2 OF 2)         |
|      | OVERALL PAVING PLAN                     |
|      | PAVING DETAILS (1 OF 2)                 |
|      | PAVING DETAILS (2 OF 2)                 |
|      | OVERALL GRADING PLAN                    |
|      | GRADING PLAN (1 OF 2)                   |
|      | GRADING PLAN (2 OF 2)                   |
|      | EXISTING DRAINAGE AREA MAP              |
|      | PROPOSED DRAINAGE AREA MAP              |
|      | INLET DRAINAGE AREA MAP                 |
|      | PROPOSED DRAINAGE AREA DESIGN<br>TABLES |
|      | OVERALL EROSION CONTROL PLAN            |
|      | EROSION CONTROL PLAN (1 OF 2)           |
|      | EROSION CONTROL PLAN (2 OF 2)           |
|      | EROSION CONTROL PLAN (3 OF 3)           |

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| 27 | OVERALL STORM SEWER PLAN                        |
| 28 | STORM SEWER PLAN (1 OF 3)                       |
| 29 | STORM SEWER PLAN (2 OF 3)                       |
| 30 | STORM SEWER PLAN (3 OF 3)                       |
| 31 | WQ AND DETENTION POND PLAN                      |
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| 34 | WATER PLAN (2 OF 2)                             |
| 35 | WASTEWATER PLAN (1 OF 2)                        |
| 36 | WASTEWATER PLAN (2 OF 2)                        |
| 37 | FRANCHISE UTILITY PLAN                          |
| 38 | STABLIZATION AND RESTORATION<br>PLAN            |
| 39 | STABLIZATION AND RESTORATION<br>DETAILS         |
| 40 | CITY OF AUSTIN CONSTRUCTION<br>DETAILS (1 OF 3) |
| 41 | CITY OF AUSTIN CONSTRUCTION<br>DETAILS (2 OF 3) |
| 42 | CITY OF AUSTIN CONSTRUCTION<br>DETAILS (3 OF 3) |
| 43 | CONSTRUCTION DETAILS (1 OF 2)                   |
| 44 | CONSTRUCTION DETAILS (2 OF 2)                   |
|    |   |

| TRAVIS COUNTY ESD NO. 6        |                                |  |
|--------------------------------|--------------------------------|--|
| DESIGN STANDARDS               | 2015 IFC WITH LOCAL AMENDMENTS |  |
| CONSTRUCTION CLASSIFICATION    | TYPE IIB                       |  |
| OCCUPANCY CLASSIFICATION       | S-1                            |  |
| NUMBER OF BUILDINGS            | 3                              |  |
| TOTAL BUILDING AREA            | 264,600 SF                     |  |
| BUILDING HEIGHT IN FEET        | 32'                            |  |
| BUILDING HEIGHT IN STORIES     | 1                              |  |
| HIGH-RISE                      | NO                             |  |
| UTOMATIC FIRE SPRINKLER SYSTEM | YES                            |  |
| REQUIRED FIRE FLOW @ 20 PSI    | 1,625 GPM                      |  |
| AVAILABLE FIRE FLOW @ 20 PSI   | 3,373 GPM                      |  |

# IS COUNTY REVISION BLOCK:

**Revision Description** 

SWEETWATER KBC  $\bigcirc$  $\diamondsuit$ BRYCE A. BARE 147739 Ш Ш Т S OVER ()CROSSIN E CAVE ш ER

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SHEET NUMBER

OF 44

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

BENCHMARKS PK NAIL WITH WASHER SET AT THE BM #101 NORTHWEST CORNER OF CURB INLET ON

NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE CENTERLINE. ELEV=1145.93' (NAVD '88)

BM #102 PK NAIL WITH WASHER SET AT THE NORTHEAST CORNER OF CURB INLET ON T

Reviewed By:

EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

ELEV=1157.662' (NAVD '88)

Date:

|                  | 482.301B TRAVIS COUNTY STANDARD CONSTRUCTION NOTES FOR  | Dev<br>EXH                  |
|------------------|---|-----------------------------|
|                  | ets for site developments must include the following construction notes:  | The                         |
| 1.               | Each driveway must be constructed in accordance with Travis County Code<br>Section 482.302(g), and each drainage structure or system must be<br>constructed in accordance with the City of Austin Drainage Criteria Manual,<br>unless other design criteria are approved by Travis County.  | eac<br>the<br>prin<br>Mar   |
| 2.               | Before beginning any construction, the owner must obtain a Travis County development permit and post the development permit, the TCEQ Site Notice, and any other required permits at the job site.  | line<br>Insp<br>cust<br>Cou |
| 3.               | Construction may not take place within Travis County right-of-way until after the owner has submitted a traffic control plan to Travis County and obtained written approval of the traffic control plan from Travis County.   | insp<br>The<br>item         |
| 4.               | The contractor and primary operator shall follow the sequence of construction<br>and the SWP3 in these approved plans. The contractor and primary operator<br>shall request Travis County inspection at specific milestones in the sequence<br>of the construction of the site development corresponding to the priority<br>inspections specified in Construction Sequencing notes in these approved<br>plans. Development outside the limits of construction specified in the<br>approved permit and construction plans is prohibited.   | 1.                          |
| 5.               | Before beginning any construction, all Storm Water Pollution Prevention Plan<br>(SWP3) requirements shall be met, and the first phase of the temporary<br>erosion control (ESC) plan installed with a SWP3 Inspection Report uploaded<br>to mypermitnow.org. All SWP3 and ESC Plan measures and primary operator<br>SWP3 inspections must be performed by the primary operator in accordance<br>with the approved plans and SWP3 and ESC Plan Notes throughout the<br>construction process.   |                             |
| 6.               | Before starting construction, the owner or contractor or their designated representatives shall submit a request via the mypermitnow.org customer portal for Travis County to request and schedule a mandatory Preconstruction Conference and ESC Inspection. If further assistance is needed, the TNR Planning and Engineering Division staff or TNR Storm Water Management Program staff can be contacted by telephone at 512-854-9383.   | 2.<br>3.                    |
| 7.               | The contractor shall keep Travis County TNR assigned inspection staff<br>current on the status of site development and utility construction. The<br>contractor shall notify Travis County and request priority inspections through<br>the mypermitnow.org customer portal for Travis County in accordance with<br>the specific milestones in the Construction Sequencing notes in these<br>approved plans.  | 4.                          |
| 8.<br>9 <i>.</i> | Contour data source: <u>SURVEY BY KIMLEY-HORN MARCH 29, 2023</u><br>Fill material must be managed and disposed of in accordance with all<br>requirements specified in the approved plans, SWP3, and the Travis County<br>Code. The contractor shall stockpile fill and construction materials only in the<br>areas designated on the approved plans and not within the 0.2 percent<br>annual chance floodplain or the 1 percent annual chance floodplain, waterway<br>setback, Critical Environmental Feature setback, or outside the limits of<br>construction. Disposal of solid waste materials, as defined by State law (e.g.,<br>litter, tires, decomposable wastes, etc.) is prohibited in permanent fill sites.  |                             |
| 10.              | Before disposing any excess fill material off-site, the contractor or primary<br>operator must provide the County Inspector documentation that demonstrates<br>that all required permits for the proposed disposal site location, including<br>Travis County, TCEQ Notice, and other applicable development permits, have<br>been obtained. The owner or primary operator must revise the SWP3 and<br>ESC Plan if handling or placement of excess fill on the construction site is<br>revised from the existing SWP3. If the fill disposal location is outside Travis<br>County or does not require a development permit, the contractor or primary<br>operator must provide the County Inspector the site address, contact<br>information for the property owner of the fill | 5.<br>6.                    |
| 11.              | The design engineer is responsible for the adequacy of the construction plans. In reviewing the construction plans, Travis County will rely upon the adequacy of the work of the design engineer.   | 7.<br>8.                    |
| 12.              | In the event of any conflicts between the content in the SWP3 Site Notebook<br>and the content in the construction plans approved by Travis County, the<br>construction plans shall take precedence.  | 9.                          |
| 13.              | A minimum of two survey benchmarks shall be set, including description,<br>location, and elevation; the benchmarks should be tied to a Travis County<br>control benchmark when possible.  |                             |
| 14.              | Any existing pavement, curbs, sidewalks, or drainage structures within<br>County right-of-way which are damaged, removed, or silted, will be repaired<br>by the contractor at owner or contractor's expense before approval and<br>acceptance of the construction by Travis County.   |                             |
| 15.              | Call the Texas Excavation Safety System at 8-1-1 at least 2 business days before beginning excavation activities.   | 10.                         |
| 16.<br>17.       | All storm sewer pipes shall be Class III RCP, unless otherwise noted.<br>Contractor is required to obtain a utility installation permit in accordance with<br>Travis County Code Section 482.901(a)(3) before any construction of utilities   | 11.                         |
| 18.<br>19.       | within any Travis County right-of-way.<br>This project is located on Flood Insurance Rate Map 48453 C0385J<br>Temporary stabilization must be performed in all disturbed areas that have<br>ceased construction activities for 14 days or longer, in accordance with the<br>standards described in the SWP3 and ESC Plan Sheet Notes.   | 12.                         |
| 20.              | Permanent site stabilization/re-vegetation must be performed immediately in all site areas which are at final plan grade and in all site areas specified in the approved plans for phased re-vegetation, in accordance with the standards described in the SWP3 and ESC Plan Sheet Notes.   |                             |
| 21.              | All trees within the right-of-way and drainage easements shall be saved or<br>removed in accordance with the approved construction plans. Travis County<br>tree preservation standards in Travis County Code Section 482.973, including<br>installation and maintenance of all specified tree protection measures, must<br>be followed during construction.   |                             |
| 22.              | An Engineer's Concurrence Letter in accordance with Travis County Code<br>Section 482.953 must be submitted via the mypermitnow.org customer portal<br>for Travis County when construction is substantially complete. The Engineer's<br>Concurrence Letter must be submitted before the contractor or primary<br>operator requests a final inspection by Travis County.   |                             |
| 23.              | Site improvements must be constructed in conformance with the engineer's construction plans approved by Travis County. Non-conformance with the approved plans will delay final inspection approval by the County until plan conformance is achieved or any required plan revisions are approved.   |                             |
| 24.              | Final Site Stabilization. All areas disturbed by the construction must be<br>permanently revegetated and all temporary sediment controls and<br>accumulated sedimentation must be removed before the County will issue a<br>Certificate of Compliance for final site stabilization as part of final inspection<br>and project completion. A Developers Contract, as described in the SWP3<br>and ESC Notes Sheet may be executed with Travis County for conditional<br>acceptance of a project for which has ESC Fiscal Security posted and for<br>which all items are complete   |                             |

482.1009 [Exhibit 482.950 Pre-Construction and Conference Agenda for SWP3 and ESC 004 [Exhibit 482.301G Sequence of Construction and Priority Inspections – Site Plan]<sup>64</sup> pment]° EXHIBIT 482.950 BIT 482.301E. SEQUENCE OF CONSTRUCTION AND PRIORITY Pre-Construction Conference Planning and Agenda for SWP3 and ESC Plan **INSPECTIONS – SITE DEVELOPMENT** Before starting construction, the owner or their representative must submit a request, wner and primary operator must follow this basic sequence of construction for using the mypermitnow.org customer portal for Travis County, to participate in a presite development, inclusive of all non-residential site development projects. Within construction conference with the designated County Inspector. Prior to the prelowing sequence of construction are listed Priority Inspections that the owner and construction conference request, the owner or owner's representative shall ensure the ry operator must request from a representative of Travis County's Storm Water first phase of the ESC controls are installed in conformance with the approved plans, gement Program inspection team. Each Priority Inspection must be requested onthe owner's qualified inspector has inspected the controls and verified compliance with rough the mypermitnow.org customer portal for Travis County. The Priority the plans, and an SWP3 Inspection Report documenting this information has been sent ctions in this exhibit are consistent with the priority inspections found in the to the County through the method specified by the designated County Inspector. ner portal for the project. For assurance purposes, a second request to Travis After arranging an agreed upon date with the County and providing the initial SWP3 ty is strongly encouraged by additionally sending an e-mail to env-Inspection Report, the owner or owner's designated representative shall provide notice t@traviscountytx.gov. of the SWP3 pre-construction conference and a copy of the approved plans, if equence for items 1-4 and items 9-12 must not be altered, but the sequence for requested, to the following persons or entities at least two business days before the 5-8 may be modified with the written approval of the County. conference: ESC Installation. Install all temporary erosion and sediment controls (ESC) Designated County Inspector(s) and tree protection measures in accordance with the approved ESC Plan sheets and the SWP3. Design engineer for the approved plans and SWP3, or their representative Have a qualified inspector (as specified in Section 482.934(c)(3) of the 3. Contractor(s)/Primary Operator(s) Travis County Code) inspect the temporary erosion and sediment 4 Primary Operator's qualified inspector responsible for preparing the SWP3 controls and prepare a certified SWP3 Inspection Report regarding Inspection Reports whether the temporary erosion and sediment controls were installed in Other stakeholders, as appropriate: municipalities, utilities, etc. conformance with the approved plans; The SWP3 pre-construction conference may be a standalone meeting or a part of a Upload the qualified inspector's certified SWP3 Inspection Report to the mypermitnow org customer portal for Travis County; and larger pre-construction conference, but must include an on-site inspection approval of the first phase of the project's ESC Plan by the County Inspector before construction Request a mandatory pre-construction meeting with Travis County begins. The County Inspector will discuss the following applicable items in the approved through the mypermitnow org customer portal for Travis County giving plans and the SWP3 with the participants: at least 3 business days notification. 1. The SWP3 Site Notebook for the project, including review of completeness, Pre-construction Meeting and ESC Inspection. Hold a mandatory presignatures, consistency with the approved construction and ESC plans, and construction meeting that addresses the items in EXHIBIT 482.950 and the the requirements for maintaining the SWP3 Site Notebook during the ESC Pre-construction Inspection by the County and obtain County's approval construction process. to start construction. (PRIORITY INSPECTION) The sequence of construction and ESC Plan implementation; sediment basin 2. Inspect for Compliance with SWP3 and ESC Plan. Maintain and inspect the construction scope prior to full site grading; non-structural erosion source SWP3 controls and prepare and upload a weekly certified SWP3 Inspection controls; start dates and schedule of events. Report that includes the contents listed in EXHIBIT 482.951 to the mypermitnow.org customer portal for Travis County. Sediment controls; phasing of perimeter and interior sediment controls during construction; structural erosion source controls such as drainage diversion; Construct Sediment Basin(s). Construct any storm water pond(s) first, ESC maintenance requirements. whenever applicable, to be functional as construction sediment basin(s) 4. Adequacy of the first ESC phase and future ESC phases to address specific before grading and excavating the entire site, as follows: site conditions, and adjustment and revision of the ESC Plan and SWP3 a. Clear, grub, and excavate only the site areas and cut and fill quantities controls during construction. necessary to construct the pond(s) in accordance with these approved 5. Temporary and permanent stabilization and re-vegetation requirements, plans and the minimum standards described in the SWP3 and ESC including schedule, critical site improvements and priority re-vegetation areas. Plan Sheet Notes for the temporary sediment basin embankments, walls, inflows, outfalls, drainage conveyance measures, sediment 6. On and off-site temporary and permanent spoil and fill disposal areas, haul controls, and stabilization. roads, staging areas, and stabilized construction entrances; Request County inspection and obtain County's written approval of the Permanent water quality controls construction and County inspections, and temporary sediment basin(s) before proceeding further in the related grading and drainage construction. sequence of construction. (PRIORITY INSPECTION) Construct Site Improvements. Begin the primary site clearing, excavation, and construction activities and continue the SWP3 and ESC Plan implementation and maintenance per the approved plans. 9 Construct Driveway Approach and Right-of-way Improvements. Install driveway approach and drainage and road improvements in the County right-

of-way per approved plans, when applicable. Request a County Pre-Pour Inspection of the driveway through the mypermitnow.org customer portal for Travis County giving at least 3 business days notification. (PRIORITY INSPECTION).

- Perform temporary stabilization in all disturbed areas that have ceased construction activities for 14 days or longer.
- Perform permanent site stabilization/re-vegetation immediately in all site areas at final plan grade and in all site areas specified for phased revegetation.
- Complete Permanent Water Quality Controls. Begin completion of permanent water quality control(s) and install the underdrain per approved plans, when applicable.
- a. Remove construction sediment, re-establish the basin subgrade, and install underdrain piping.
- Request County inspection and obtain County's written approval of the underdrain piping installation and associated construction materials (aggregate, filter media, etc.) before covering the underdrain and proceeding with construction of the control. (PRIORITY INSPECTION).
- Complete construction site improvements and final stabilization per the approved plans.
- Provide Engineer's Concurrence Letter through the mypermitnow.org customer portal for Travis County when construction is substantially complete and request a final inspection by Travis County. (PRIORITY INSPECTION)
- Obtain a Certificate of Compliance when all final inspection punch list items, including final site stabilization and removal of temporary sediment controls. If necessary, provide a Developers Contract to the County to request conditional acceptance for use or occupancy of the site with all items completed except re-vegetation growth coverage. Request a re-inspection when re-vegetation coverage is complete. (PRIORITY INSPECTION)

TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES NOTES:

- BEFORE PROJECT APPROVAL/ISSUANCE OF THE CERTIFICATE OF COMPLETION (COC) AND FISCAL RELEASE, THE FOLLOWING MUST BE COMPLETE: THE OWNER MUST CONTACT CITY OF BEE CAVE FOR THEIR REQUIREMENTS REGARDING PWQC (BMP) PERMITTING, A WATER QUALITY PROTECTIVE EASEMENT, AND THE BMP MAINTENANCE PLAN.
- PROVIDE A COPY OF THE RECORDED BMP MAINTENANCE PLAN TO: POSTINSPECTION@TRAVISCOUNTYTX.GOV.

Supervision of the SWP3 implementation by the primary operator's designated project manager, including roles, responsibilities, and coordination when more than one operator is responsible for implementation. Inspection and preparation of the weekly SWP3 Inspection Reports by the primary operator's gualified inspector; report submittal by the primary operator, and SWP3 monitoring inspections conducted by the County Inspector. Observation and documentation of existing site conditions adjacent to the 10. limits of construction before construction, including waterways and potential outfall discharge routes, rights-of-way and easements, buffer zones, and critical environmental features. 11. Special site conditions and plan provisions, such as protection of waterways, critical environmental features, trees to be saved, and future homebuilding on subdivision lots. Rain gage location or rainfall information source to be used during 12. construction and reporting.

13. Final inspection and acceptance requirements, including the engineer's concurrence letter, completion of revegetation coverage before the Notice of Termination is submitted by the primary operator, stabilization of residential subdivision lots, removal of temporary sediment controls, the Certificate of Compliance and release of ESC fiscal surety.

14. Exchange of telephone numbers and contact information for the primary participants.

The design engineer shall prepare and distribute notes, key decisions, and follow up from the preconstruction conference to all participants within three business days after completion of the conference.

- Areas of Inspection. At the very least, the following areas must be inspect
- Disturbed areas and the approved limits of construction.
- 2. Perimeter and interior sediment controls.
- Areas undergoing temporary stabilization or permanent vegetation establishment.
- Temporary and permanent fill and spoil storage or disposal are Storage areas for materials and equipment that are exposed to
- Outfall locations and the areas immediately downstream.
- 7. Structural controls, including sediment ponds, sediment traps, diversions. 8.
- Haul roads and locations where vehicles enter or exit the site. roadways for evidence of off-site sediment tracking.
- 9. Waterway crossings and areas adjacent to waterways and critic environmental features.
- 10. Concrete wash out areas and all areas requiring control measured storm water discharges, including dust, solid waste, de-watering spills, vehicle maintenance and washing, and wash water disch
- 11. Locations of all control measures that require maintenance, inc control measure identified in the previous SWP3 Inspection Re required maintenance or revision by the owner or primary oper
- 12. Locations of any discharge of sediment or other pollutants from any disturbance beyond the approved limits of construction.
- 13. Locations of control measures that failed to operate as designed inadequate for a particular location.
- Locations where an additional ESC or control measure is need 14.

- 1. Erosion source controls, including the approved sequence construction and grading plan limits, drainage diversion temporary and permanent fill disposal and stockpile mar measures.
- Sediment controls, including perimeter and interior contr traps and basins, and the sequence of construction requ the sediment controls.
- Permanent erosion and soil stabilization controls, based 3. sequence of construction and critical site improvements, cessation of construction activities, including temporary measures for areas inactive for longer than 14 days, and stabilization measures for areas at final grade. 4. Other applicable controls and pollution prevention meas
- Rainfall documentation:
  - For projects that comprise ten acres or more, the docum include rainfall dates and amounts in accordance with Se 482.934(e); and
  - For projects that comprise less than ten acres, the docur 2.
- include accurate rainfall data from a location closest to t C. Corrective actions required for any non-compliant items and the bringing these items into compliance.

|   |   | BX  |
|---|---|---|
| 482.1009 [Exhibit 482.951SWP3 Inspection Areas and Report Contents] <sup>65</sup>   | TRAVIS COUNTY EMERGENCY SERVICES DISTRICT NO. 6<br>FIRE DEPARTMENT – SITE PLAN NOTES  |   |
| EXHIBIT 482.951 SWP3 Inspection Areas and Report Contents<br>The owner or primary operator of the construction site shall designate a qualified   | 1. Designs for Site improvements shall meet the current Design Criteria as required by TCESD No. 6.   | DATE  |
| inspector possessing the required certification (as specified in Section 482.934(c)(3)) to perform a weekly SWP3 inspection and prepare a signed SWP3 Inspection Report of the line section findings. | 2. All plans (Site, Building, Fire Alarm, Fire Sprinkler) shall be submitted to LTFR for review.<br>Two full-size sets are required. A review letter will be generated. Reviews will not be performed   |   |
| the inspection findings.<br>The construction site areas and the control measures listed herein are to be used as a  | <ul> <li>until the applicable review fees are paid.</li> <li>3. Upon plan approval, a Permit will be issued. The Permit must be conspicuously posted.</li> <li>4. An all-weather driving surface (Fire Apparatus Access) must be installed in locations shown on</li> </ul>                                 |   |
| minimum as the uniform criteria by the owner's qualified inspector, as well as the County Inspector, to evaluate and determine a project's compliance status with the                                 | <ul> <li>the Site Plan, prior to any building construction beyond the foundation.</li> <li>All pervious/decorative paving shall be engineered and installed for 80,000 pounds live-vehicle loads. Any pervious/decorative paving within 100 feet of any building must be approved by the</li> </ul>         |   |
| approved SWP3 and ESC Plan.<br>In addition, on an ongoing basis and following storm events, the primary operator's  | <ul><li>Fire Department.</li><li>6. Vertical clearance required for fire apparatus is 13 feet, six inches for the full 25 feet width of</li></ul>   | SNO   |
| responsible on-site personnel shall also inspect and address these items during<br>construction as required by the SWP3, ESC Plan, and Travis County Code, Section                                    | access drives and routes for internal circulation. Dead-end fire apparatus access roads in excess<br>of 150 feet in length shall be provided with approved provisions for the turning around of fire<br>apparatus, per Figure B-4 of this Manual.   | REVISIONS   |
| 482.951.<br>Areas of Inspection. At the very least, the following areas must be inspected:  | <ol> <li>The maximum allowable driveway, drive aisle or Fire Lane grade is 15 percent.</li> <li>The markings of Fire Lanes must be red with white stenciling or white with red stenciling reading "FIRE LANE – TOW AWAY ZONE" in lettering no less than three inches in height.</li> </ol>                  |   |
| 1. Disturbed areas and the approved limits of construction.   | The stenciling shall be at intervals of 35 feet or less. Alternative marking of Fire Lanes may be approved by the Fire Chief, or his/her designated agent, provided Fire Lanes are clearly  |   |
| <ol> <li>Perimeter and interior sediment controls.</li> <li>Areas undergoing temporary stabilization or permanent vegetation</li> </ol>   | identified at both ends and at intervals not to exceed 35 feet. Existing Fire Lane markings shall<br>be grandfathered provided that they meet the wording and interval requirements that were<br>accepted on approved site plans and other type Fire Lane submittals approved by the fire                   |   |
| establishment.<br>4. Temporary and permanent fill and spoil storage or disposal areas.  | <ul><li>department. Existing Fire Lanes that are in need of re-painting shall meet the requirements of this section.</li><li>9. The Fire Department Connection (FDC) connection shall be installed where shown on the site</li></ul>  |   |
| <ol> <li>Storage areas for materials and equipment that are exposed to rainfall.</li> <li>Outfall locations and the areas immediately downstream.</li> </ol>  | <ul><li>Plan.</li><li>10. Hydrants must be installed with the center of the four and one-half inch steamer opening at least</li></ul>   |   |
| 7. Structural controls, including sediment ponds, sediment traps, and drainage  | 18 inches above finished grade. The four and one-half inch steamer opening must face the driveway or street with three- to six-foot setbacks from the curb line(s). No obstruction is allowed within three feet of any hydrant, and the four and one-half inch opening must be totally                      | TX 78735  |
| <ul><li>diversions.</li><li>8. Haul roads and locations where vehicles enter or exit the site, and adjacent</li></ul>   | <ul><li>unobstructed from the street/driveway.</li><li>11. Contractor shall install Blue Reflective Markers in the pavement per TCESD No. 6 specifications. No improvements may be occupied until the markers are installed.</li></ul>  | <u> </u>  |
| <ul><li>roadways for evidence of off-site sediment tracking.</li><li>9. Waterway crossings and areas adjacent to waterways and critical</li></ul>   | <ol> <li>Fire hydrants shall have National Hose Threads.</li> <li>Static water tank hard suction connector shall have six-inch National Hose Threads.</li> </ol>  | ES, INC.<br>00, AUSTI<br>-1791<br>RM F-928  |
| environmental features.<br>10. Concrete wash out areas and all areas requiring control measures for non-  | 14. A certified or witnessed pressure test is required for all water models, required hydrant flow tests or sprinkler system designs.   | OCIAT<br>UITE 1<br>0172-418<br>COM<br>ING FI  |
| storm water discharges, including dust, solid waste, de-watering, material spills, vehicle maintenance and washing, and wash water discharges.  | <ul> <li>15. Hydrants shall be painted silver and the bonnet and caps shall be painted the designated color per the gallons per minute (GPM) as follows:</li> <li>Class AA Light Blue 1500 or higher GPM</li> </ul>   | ND ASSOCI<br>NG 2, SUITI<br>FAX: 512-4<br>HORN.COM  |
| 11. Locations of all control measures that require maintenance, including any<br>control measure identified in the previous SWP3 Inspection Report which  | Class AGreen1000-1499 GPMClass BOrange500-1499 GPMClass CRedLess than 500 GPM   | IN AN UILDIN<br>UILDIN<br>VILEY-I<br>D ENG  |
| <ul><li>required maintenance or revision by the owner or primary operator.</li><li>12. Locations of any discharge of sediment or other pollutants from the site and</li></ul>                         | Class DBlackOut of Service16. Commercial dumpsters and containers with an individual capacity of one and one half cubic   | 12-646<br>MAY, B<br>MW.KII  |
| <ul><li>any disturbance beyond the approved limits of construction.</li><li>13. Locations of control measures that failed to operate as designed or proved</li></ul>                                  | <ul> <li>yards or greater shall not be stored or placed within 10 feet of openings, combustible walls or combustible eave lines.</li> <li>17. "Key Boxes"/"Key Switches" (Knox-Box® Rapid Entry System) shall be installed in the</li> </ul>  | 2023 KIMLE<br>ST PARKW/<br>PHONE: 512<br>WWW  |
| inadequate for a particular location.   | location(s) shown on the Site/Building plans as approved by TCESD No. 6. Contact LTFR for ordering information. No improvements may be occupied until the Key Box/Key Switch is installed.  | © 2023<br>WEST F<br>PHC<br>TEXAS  |
|   |   | 6301 SOUTHWEST<br>PH<br>TEXAS   |
| The SWP3 Inspection Report must include:<br>A. Findings as to whether the following structural and non-structural controls  | Erosion/Sedimentation Control General Notes   | 2301  |
| required for the site areas listed above are functioning :in compliance with the approved SWP3 and ESC Plan:  | 1. The Contractor shall install erosion/sedimentation controls prior to any site preparation work (clearing, grubbing or excavation).   | BR  |
| <ol> <li>Erosion source controls, including the approved sequence of<br/>construction and grading plan limits, drainage diversion measures,</li> </ol>  | 2. The placement of erosion/sedimentation controls shall be in accordance with the LCRA Water Quality Management Technical Manual and the approved Erosion and Sedimentation  | E OF TEXAS  |
| temporary and permanent fill disposal and stockpile management measures.  | <ul><li>Control Plan.</li><li>3. A pre-construction conference shall be held on-site with the Contractor, Design Engineer/Permit Applicant and LCRA Watershed Management Inspector after installation of the</li></ul>  |   |
| <ol> <li>Sediment controls, including perimeter and interior controls, sediment<br/>traps and basins, and the sequence of construction requirements for<br/>the sediment controls.</li> </ol>         | erosion/sedimentation controls and prior to beginning any site preparation work. The Contractor shall notify the LCRA Inspector, at least three days prior to the meeting date.   | BRYCE A. BARR<br>147739   |
| 3. Permanent erosion and soil stabilization controls, based on the sequence of construction and critical site improvements, and the   | 4. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the LCRA Watershed Management Program. Minor changes to be made as field revisions to the Erosion and   | SSIONAL ENG 06/01/2023  |
| cessation of construction activities, including temporary stabilization measures for areas inactive for longer than 14 days, and permanent  | Sedimentation Control Plan may be required by the LCRA Watershed Management Inspector during the course of construction to correct control inadequacies.  | JJECT<br>844<br>E<br>6023<br>0023<br>SHOWN<br>CRS<br>CRS<br>BAB   |
| <ul><li>stabilization measures for areas at final grade.</li><li>4. Other applicable controls and pollution prevention measures.</li></ul>  | 5. The Contractor is required to inspect the controls and fences at weekly intervals and after rainfall events in excess of 0.5" to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs                |   |
| <ul> <li>B. Rainfall documentation:</li> <li>1. For projects that comprise ten acres or more, the documentation must</li> </ul>   | to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches.  | KHA PROJECT<br>067786844<br>DATE<br>DATE<br>02/23/2023<br>SCALE: AS SHOV<br>DESIGNED BY: RS<br>DRAWN BY: CF<br>CHECKED BY: BA |
| include rainfall dates and amounts in accordance with Section<br>482.934(e); and  | 6. Prior to final acceptance by the LCRA, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris                               | KHA<br>06<br>02<br>SCALE:<br>DESIGNE<br>DRAWN I<br>CHECKE   |
| 2. For projects that comprise less than ten acres, the documentation must include accurate rainfall data from a location closest to the site.   | <ul><li>shall be disposed of in approved spoil disposal sites.</li><li>7. Permanent Erosion Control: All disturbed areas shall be restored as noted below.</li></ul>  |   |
| C. Corrective actions required for any non-compliant items and the schedule for bringing these items into compliance.   | A. A minimum of four inches of topsoil shall be placed on all disturbed areas (except rock outcrop). Salvaged topsoil from the site should be used whenever possible. Imported topsoil  | S   |
| The SWP3 Inspection Report contents must contain the inspection findings for the required areas and control measures listed herein and certify whether the site is in                                 | <ul><li>shall be weed free with a minimum 20% organic content. Topsoil placed on slopes exceeding 5 horizontal to 1 vertical shall have a relatively high resistivity to erosion.</li><li>B. The seeding for permanent erosion control shall be applied over areas disturbed by</li></ul>                   | н ш н   |
| compliance with the approved SWP3 and ESC Plan.<br>Either at the time of each SWP3 inspection, or no later than the date of the inspection,   | construction as follows (select one of the three seed combinations listed below):       Dates       Climate       Species (lb/ac)   | NOT   |
| the owner's qualified inspector shall prepare and sign a SWP3 Inspection Report.<br>The owner or primary operator shall upload each required SWP3 or ESC Plan   | Year RoundPermanent Cool/Warm<br>Season (NativePurple three-awn (Aristida purpurea)1.4Season (NativeSideoats grama (Bouteloua curtipendula)2.0Species)Silver bluestem (Bothriochloa laguroides)6.0  | Z   |
| Inspection Report to the mypermitnow.org customer portal for Travis County. An alternate method of report submittal may be used if approved by the County Inspector.                                  | Buffalograss (Buchloe dactyloides)1.4Canadian wildrye (Elymus Canadensis)1.4  | AL A  |
|   | Engelmann's daisy (Engelmannia pinnatif0.6Green sprangletop (Leptochloa dubia)2.6Mexican hat (Ratibida columnifera)1.0  |   |
|   | Little bluestem (Schizachyrium scoparium1.8Indiangrass (Sorghastrum nutans)1.8  |   |
|   | Texas Wintergrass (Nassella leucotricha)     15.0       Total     35.0       Mar 30-Oct 1     Permanent Warm Season       Bermuda (Cynodon dactylon)(hulled)     45.0   | Ш<br>U  |
|   | Oct 1-Mar         Permanent Cool/Warm         Bermuda (Cynodon dactylon)(unhulled)         70.0           20         Second         #Consol Pure (Secold example)         00.0  |   |
|   | 30       Season       *Cereal Rye (Secale cereale)<br>Total       90.0<br>160.0         Take care to distribute seed evenly, by sowing fine and large seeds separately or by using a fine   |   |
|   | seed box. When broadcasting seeding, the application rate should be doubled and the area rolled<br>to ensure a good seed/soil contact   |   |
|   | *From September 15 to March 1, Oats (21 lb/acre) and Winter Wheat (30 lb/acre) may be substituted for Rye.  | (1)   |
|   | Mulch type used shall be hay, straw or mulch applied at a rate of 3500 lb/acre (hay), 4500 lb/acre (straw) or 2500 lb/acre (hydraulic mulch). Tackifier, if used shall be biodegradable.  |   |
|   | C. The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil,<br>but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at ten-day<br>intervals during the first two months. Rainfall occurrences of ½ inch or more shall postpone the | )<br>SSS<br>ILT)<br>XAS   |
|   | <ul><li>watering schedule for one week.</li><li>D. Restoration shall be acceptable when the grass has grown at least 1½ inches high with 70%</li></ul>  | CROS<br>FACILT<br>CAVE<br>CAVE<br>Y, TEXA8  |
|   | coverage, provided no bare spots larger than 16 square feet exist. Critical areas including creek crossings, slopes, stormwater discharge points must be completely stabilized. Permanent Water quality BMPs must attain 80% coverage.  |   |
|   | 8. Developer Information:<br>$Owner_KBC$ Phone # (972)974-6178  | WATER<br>T MILE F<br>TTY OF BEE   |
|   | Address 2828 N HARWOOD ST., SUITE 1900 DALLAS, TX 75201<br>Owner's representative responsible for plan alterations:   | TWA<br>ST N<br>CITY (   |
|   | KIMLEY-HORN Phone # (512) 646-2237  |   |
|   | Person or firm responsible for erosion/sedimentation control maintenance:Phone # Phone #  | SWEE<br>LA  |
|   | Person or firm responsible for tree/natural area protection Maintenance:Phone #   | S<br>S  |
|   | 9. The contractor shall not dispose of surplus excavated material from the site without notifying the LCRA Watershed Management Inspector at least 48 hours prior with the  | SHEET NUMBER  |
|   | location and a copy of the permit issued to receive the material.   | 2 OF 44   |
|   |   |   |

# KH GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, CITY (OR TOWN) STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING
- SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED. 2. THE CONTRACTOR SHALL COMPLY WITH CITY (OR TOWN) "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE CITY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
- 3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS. 4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
- 5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS 6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER
- IMMEDIATELY 7. IF THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW. 8 CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING
- 9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL. 10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR. APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE CITY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE CITY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM. 11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO
- COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION 12.IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO
- BEGINNING CONSTRUCTION 13. CONTRACTOR SHALL CALL TEXAS 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION. 14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES. 15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE
- ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY. 16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL OR VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON
- THESE PLANS. 17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE. AND UTILITY POLE ADJUSTMENTS NEEDED. 18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND
- OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT. 19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING 5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE REQUIRED CONTRACTOR OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK. 20.BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY
- TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM. 21.CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING
- TO WORK SETBACKS FROM POWER LINES. 22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS, APPROVALS, AND BONDS PRIOR TO CONSTRUCTION
- 23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS. GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND CITY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS. 24.ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE
- IS AVAILABLE 25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES. JURISDICTIONAL AGENCIES. AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES. 26.CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- 27.CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES. 28 ALL SYMBOLS SHOWN ON THESE PLANS (E.G. FIRE HYDRANT, METERS, VALVES, INLETS, ETC....) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE CITY INSPECTOR. 29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT 30.REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
- 31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE FINAL CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S SENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC BASED ON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL DIMENSION CONTROL PLAN, SURVEY BOUNDARY AND/OR PLAT. ANY
- DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY. 32.ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA. 33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND COMPLY WITH CITY STANDARD
- SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING 34.ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY. 35.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE
- WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 36.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING
- 37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED, ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR 38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, POLES, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
- 39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC .... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER. 40.ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
- 41.THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION. 42.CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING
- DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES. 43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN. PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY. 44.THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- 45.SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR 46. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES. AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS
- 47.SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS. 48.CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND CONTRACTOR PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS. 49.LIGHT POLES, SIGNS, AND OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
- 50.ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING. 52.CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING 53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE CITY
- OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS. 54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE CITY OF A TRAFFIC CONTROL PLAN PRIOR TO THE START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN. 55.CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS OR VARIANCES FROM THE PLANS
- 56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND CITY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO THE CONSTRUCTION SITE LAND DISTURBANCE. 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE "TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000". 3. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START OF LAND DISTURBANCE. 4. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT
- 5. CONTRACTOR IS SOLELY RESPONSIBLE FOR INSTALLATION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIFLD CONDITIONS CHANGE 6. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP EMPLOYED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. 7. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET PER
- APPROVED DETAILS 8. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED. CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING. 10. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT

- NOTIFY THE ENGINEER
- QUALITY. PROTECTIVE MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR
- ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
- ALL TIMES FOR ALL INGRESS/EGRESS
- REMOVED IMMEDIATELY OFF-SITE ROADWAYS. 17. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA
- STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP BMP. PLANS. THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
- MATERIAL AND TRASH AS CONSTRUCTION PROGRESSES ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK,
- PAVEMENT OR A UNIFORM PERENNIAL VEGETATIVE COVER ACCORDANCE WITH APPLICABLE REGULATIONS.
- STORM WATER DISCHARGE AUTHORIZATION
- POLLUTANT DISCHARGE ELIMINATION SYSTEM TXR 150000.
- RECEIVING DISCHARGE FROM THE SITE
- BY THE TCEQ AND EPA (E.G. NOI).
- 7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO TCEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

- AND REMOVED FROM THE SITE. RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND
- PROCESS FOR THE REMOVAL OF THEIR FACILITIES.
- IMPLEMENTING THE DEMOLITION PLAN:
- a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER, b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER, c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
- STARTING ANY WORK ON THE SITE
- SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.

# FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

- ANY DISCREPANCIES. 2. CONTRACTOR SHALL OBTAIN ANY REQUIRED GRADING PERMITS FROM THE CITY.
- FI EVATION 5. PROPOSED CONTOURS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND DESIGNATED GRADIENT ARE TO BE USED IN CASE OF
- DISCREPANCY 6. ALL FINISHED GRADES SHALL TRANSITION UNIFORMLY BETWEEN THE FINISHED ELEVATIONS SHOWN.
- PAVEMENT SECTION VARIANCE FROM A BALANCED SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CIVIL ENGINEER. 9. ALL GRADING AND EARTHWORK SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA
- CONTRACTOR AT NO ADDITIONAL EXPENSE. 11. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED PRIOR TO THE START
- REQUIREMENTS. GRADE CONTROL POINTS RELATED TO EARTHWORK
- THE RECEIVING LANDOWNER'S APPROVAL TO DO SO.
- DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES. REASON OR ANY LENGTH OF TIME, UNLESS THESE PLANS SPECIFICALLY INDICATE THIS IS REQUIRED.
- 17. TEMPORARY CULVERTS MAY BE REQUIRED IN SOME LOCATIONS TO CONVEY RUN-OFF. 18. REFER TO DIMENSION CONTROL PLAN, AND PLAT FOR HORIZONTAL DIMENSIONS.
- PLACEMENT
- CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. SHALL REFER TO THE GEOTECHNICAL REPORT AND STRUCTURAL PLANS AND SPECIFICATIONS FILL, CONDITIONING, AND PREPARATION IN THE BUILDING PAD
- FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
- 26. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY
- INFORMATION
- 28.EXISTING TREE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN THE FIELD THAT AFFECT THE GRADING PLAN TO THE CIVIL ENGINEER. PRESERVATION PLAN BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING THE WORK

11. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED AS PART OF THE PROJECT SITE AND MUST ALSO COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED OR SHOWN ON THE EROSION CONTROL PLAN. 12. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER

13. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE, TO VERIFY THAT THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY. 14. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH CITY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT 15. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND

16. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THE CONSTRUCTION AS REQUESTED BY OWNER AND CITY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE

18. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES. PER TCEQ AND CITY STANDARDS. IF NO ENGINEERING DESIGN HAS BEEN PROVIDED FOR A SEDIMENTATION BASIN ON THESE 19. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR. 20. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION SHALL NOT BE ALLOWED TO DRAIN DIRECTLY OFF SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION.

PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE. 21. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF ANY AREA, UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE 22.CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE 23. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS

24.AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN

CONTRACTOR SHALL COMPLY WITH ALL TCEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS. 2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE TCEQ GENERAL PERMIT TO DISCHARGE UNDER THE TEXAS

3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO TCEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE CITY)

4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED

CERTIFICATION STATEMENT ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP 6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE CITY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.

DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY STRUCTURES. A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. 2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE

3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR. 4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND

5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO 6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL. STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW 8. SURFACE PAVEMENT INDICATED MAY OVERLAY OTHER HIDDEN STRUCTURES, SUCH AS ADDITIONAL LAYERS OF PAVEMENT,

. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF

3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT 4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE TO TOP OF FINISHED GRADE

7. CONTOURS AND SPOT GRADES SHOWN ARE ELEVATIONS OF TOP OF THE FINISHED SURFACE. WHEN PERFORMING THE GRADING OPERATIONS, THE CONTRACTOR SHALL PROVIDE AN APPROPRIATE ELEVATION HOLD-DOWN ALLOWANCE FOR THE THICKNESS OF

PAVEMENT, SIDEWALK, TOPSOIL, MULCH, STONE, LANDSCAPING, RIP-RAP AND ALL OTHER SURFACE MATERIALS THAT WILL CONTRIBUTE TO THE TOP OF FINISHED GRADE. FOR EXAMPLE, THE LIMITS OF EARTHWORK IN PAVED AREAS IS THE BOTTOM OF THE 8. NO REPRESENTATIONS OF EARTHWORK QUANTITIES OR SITE BALANCE ARE MADE BY THESE PLANS. THE CONTRACTOR SHALL PROVIDE THEIR OWN EARTHWORK CALCULATION TO DETERMINE THEIR CONTRACT QUANTITIES AND COST. ANY SIGNIFICANT

10. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL

OF GRADING. REFERENCE EROSION CONTROL PLAN, DETAILS, GENERAL NOTES, AND SWPPP FOR ADDITIONAL INFORMATION AND 12.BEFORE ANY EARTHWORK IS PERFORMED, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF THE PROJECT'S PROPERTY LINE AND SITE IMPROVEMENTS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ENGINEERING AND SURVEYING FOR LINE AND

13. CONTRACTOR TO DISPOSE OF ALL EXCESS EXCAVATION MATERIALS IN A MANNER THAT ADHERES TO LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. THE CONTRACTOR SHALL KEEP A RECORD OF WHERE EXCESS EXCAVATION WAS DISPOSED, ALONG WITH

14. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF TOPSOIL AT THE COMPLETION OF FINE GRADING. CONTRACTOR SHALL REFER TO LANDSCAPE ARCHITECTURE PLANS FOR SPECIFICATIONS AND REQUIREMENTS FOR TOPSOIL. 15. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING 16.NO EARTHWORK FILL SHALL BE PLACED IN ANY EXISTING DRAINAGE WAY, SWALE, CHANNEL, DITCH, CREEK, OR FLOODPLAIN FOR ANY

19. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND CONDITION FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO

20.CONTRACTOR IS RESPONSIBLE FOR ALL SOILS TESTING AND CERTIFICATION. UNLESS SPECIFIED OTHERWISE BY OWNER. ALL SOILS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR AND SHALL COMPLY WITH CITY STANDARD SPECIFICATIONS AND THE GEOTECHNICAL REPORT. SOILS TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING SOILS. THE OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR SOILS TESTING 21.ALL COPIES OF SOILS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING

22.IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE SOILS, THAT THE WORK 23. THE SCOPE OF WORK FOR CIVIL IMPROVEMENT SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. CONTRACTOR

24.DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO

OF THE PROPOSED BUILDING(S) DURING GRADING OPERATIONS AND IN THE FINAL CONDITION. IF THE CONTRACTOR OBSERVES THAT THIS WILL NOT BE ACHIEVED, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW THE LOCATION.

SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE CITY, AT NO ADDITIONAL COST TO THE OWNER. 27. CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS NEEDED FOR GRADING OPERATIONS AND TO ACCOMMODATE PROPOSED GRADE, INCLUDING THE UNKNOWN UTILITIES NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL REFER TO THE GENERAL NOTES "OVERALL" SECTION THESE PLANS FOR ADDITIONAL

29. CONTRACTOR SHALL FIELD VERIFY ALL PROTECTED TREE LOCATIONS. INDIVIDUAL PROTECTED TREE CRITICAL ROOT ZONES. AND

PROPOSED SITE GRADING. AND NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY CONFLICTS WITH THE TREE

30. TREE PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY STANDARD TREE PROTECTION DETAILS AND THE

APPROVED TREE PRESERVATION PLANS BY THE LANDSCAPE ARCHITECT. 31. CONTRACTOR SHALL REFER TO THE LANDSCAPING AND TREE PRESERVATIONS PLANS FOR ALL INFORMATION AND DETAILS

REGARDING EXISTING TREES TO BE REMOVED AND PRESERVED. 32.NO TREE SHALL BE REMOVED UNLESS A TREE REMOVAL PERMIT HAS BEEN ISSUED BY THE CITY, OR CITY HAS OTHERWISE CONFIRMED IN WRITING THAT ONE IS NOT NEEDED FOR THE TREE(S).

33 NO TREE SHALL BE REMOVED OR DAMAGED WITHOUT PRIOR AUTHORIZATION OF THE OWNER OR OWNER'S REPRESENTATIVE EXISTING TREES SHALL BE PRESERVED WHENEVER POSSIBLE AND GRADING IMPACT TO THEM HELD TO A MINIMUM. 34.AFTER PLACEMENT OF SUBGRADE AND PRIOR TO PLACEMENT OF PAVEMENT, CONTRACTOR SHALL TEST AND OBSERVE PAVEMENT

AREAS FOR EVIDENCE OF PONDING AND INADEQUATE SLOPE FOR DRAINAGE. ALL AREAS SHALL ADEQUATELY DRAIN TOWARDS THE INTENDED STRUCTURE TO CONVEY STORMWATER RUNOFF. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER IF ANY AREAS OF POOR DRAINAGE ARE DISCOVERED 35.CONTRACTOR FIELD ADJUSTMENT OF PROPOSED SPOT GRADES IS ALLOWED, IF THE APPROVAL OF THE CIVIL ENGINEER IS OBTAINED.

TAINING WALLS: RETAINING WALLS SHOWN ARE FOR SITE GRADING PURPOSES ONLY, AND INCLUDE ONLY LOCATION AND SURFACE SPOT ELEVATIONS AT THE TOP AND BOTTOM OF THE WALL 2. RETAINING WALL TYPE OR SYSTEM SHALL BE SELECTED BY THE OWNER.

DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE 3. RETAINING WALL DESIGN SHALL BE PROVIDED BY OTHERS AND SHALL FIT IN THE WALL ZONE OR LOCATION SHOWN ON THESE PLANS. STRUCTURAL DESIGN AND PERMITTING OF RETAINING WALLS, RAILINGS, AND OTHER WALL SAFETY DEVICES SHALL BE PERFORMED BY A LICENSED ENGINEER AND ARE NOT PART OF THIS PLAN SET.

4. RETAINING WALL DESIGN SHALL MEET THE INTENT OF THE GRADING PLAN AND SHALL ACCOUNT FOR ANY INFLUENCE ON ADJACENT BUILDING FOUNDATIONS, UTILITIES, PROPERTY LINES AND OTHER CONSTRUCTABILITY NOTES. 5. RETAINING WALL ENGINEER SHALL CONSULT THESE PLANS AND THE GEOTECHNICAL REPORT FOR POTENTIAL CONFLICTS.

ALL PAVING MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS. THE CITY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE CITY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING

SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION/DETAIL SHALL BE FOLLOWED. ALL PRIVATE ON-SITE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION) INCLUDING ALL ADDENDA 3. ALL FIRELANE PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARDS AND DETAILS. IF THESE ARE DIFFERENT THAN THOSE IN THE GEOTECHNICAL REPORT, THEN THE MORE RESTRICTIVE SHALL BE FOLLOWED.

4. ALL PUBLIC PAVING AND PAVING SUBGRADE SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS 5. CONTRACTOR IS RESPONSIBLE FOR ALL PAVING AND PAVING SUBGRADE TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL PAVING AND PAVING SUBGRADE TESTING SHALL BE COORDINATED WITH THE APPROPRIATE CITY INSPECTOR. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING PAVING AND SUBGRADE. OWNER SHALL

APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR PAVING AND PAVING SUBGRADE TESTING. 6. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW, BY THE STANDARD TESTING PROCEDURES OF THE PAVING AND PAVING SUBGRADE, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND CITY SPECIFICATIONS. 7. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED

BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING. IF NONE IS CURRENTLY EXISTING 8. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD

CONSTRUCTION DETAIL AND SPECIFICATIONS 9. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA AND TAS STANDARDS. 10. ALL ACCESSIBLE RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA AND TAS STANDARDS, LATEST EDITION

11. ANY COMPONENTS OF THE PROJECT SUBJECT TO RESIDENTIAL USE SHALL ALSO CONFORM TO THE FAIR HOUSING ACT, AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT 12 CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EXISTING PAVEMENT WITH A SMOOTH FLUSH CONNECTION 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. ALL PAINT AND

PAVEMENT MARKINGS SHALL ADHERE TO CITY AND OWNER STANDARDS. 14 REFER TO GEOTECHNICAL REPORT FOR PAVING JOINT LAYOUT PLAN REQUIREMENTS FOR PRIVATE PAVEMENT 15. REFER TO CITY STANDARD DETAILS AND SPECIFICATIONS FOR JOINT LAYOUT PLAN REQUIREMENTS FOR PUBLIC PAVEMENT 16. ALL REINFORCING STEEL SHALL CONFORM TO THE GEOTECHNICAL REPORT, CITY STANDARDS, AND ASTM A-615, GRADE 60, AND SHALL

BE SUPPORTED BY BAR CHAIRS. CONTRACTOR SHALL USE THE MORE STRINGENT OF THE CITY AND GEOTECHNICAL STANDARDS. 7. ALL JOINTS SHALL EXTEND THROUGH THE CURB. 18. THE MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS SHALL BE 2 FEET. 19. CONTRACTOR SHALL SUBMIT A JOINTING PLAN TO THE ENGINEER AND OWNER PRIOR TO BEGINNING ANY OF THE PAVING WORK.

20.ALL SAWCUTS SHALL BE FULL DEPTH FOR PAVEMENT REMOVAL AND CONNECTION TO EXISTING PAVEMENT. 21.FIRE LANES SHALL BE MARKED AND LABELED AS A FIRELANE PER CITY STANDARDS. 22.UNLESS THE PLANS SPECIFICALLY DICTATE TO THE CONTRARY, ON-SITE AND OTHER DIRECTIONAL SIGNS SHALL BE ORIENTED SO THEY ARE READILY VISIBLE TO THE ONCOMING TRAFFIC FOR WHICH THEY ARE INTENDED THIS PRELIMINARY DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED 23.CONTRACTOR IS RESPONSIBLE FOR INSTALLING NECESSARY CONDUIT FOR LIGHTING, IRRIGATION, ETC. PRIOR TO PLACEMENT OF PAVEMENT. ALL CONSTRUCTION DOCUMENTS (CIVIL, MEP, LANDSCAPE, IRRIGATION, AND ARCHITECT) SHALL BE CONSULTED.

24.BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA, TAS, AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION. 25.CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT

TO VERIFY THAT ADA/TAS SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA AND TAS SLOPE COMPLIANCE ISSUES.

ALL STORM SEWER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

- 2. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER. . THE CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING STORM
- SEWER FACILITIES THAT ARE TO BE CONNECTED TO. PRIOR TO START OF CONSTRUCTION OF ANY STORM SEWER, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED 4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION
- 7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE 5. FLOW LINE, TOP-OF-CURB, RIM, THROAT, AND GRATE ELEVATIONS OF PROPOSED INLETS SHALL BE VERIFIED WITH THE GRADING PLAN AND FIELD CONDITIONS PRIOR TO THEIR INSTALLATION.
  - 6. ALL PUBLIC STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
  - 7. ALL PRIVATE STORM SEWER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS 3. ALL PVC TO RCP CONNECTIONS AND ALL STORM PIPE CONNECTIONS ENTERING STRUCTURES OR OTHER STORM PIPES SHALL HAVE A CONCRETE COLLAR AND BE GROUTED TO ASSURE THE CONNECTION IS WATERTIGHT
- 9. ALL PUBLIC STORM SEWER LINES SHALL BE MINIMUM CLASS III RCP. PRIVATE STORM SEWER LINES 18-INCHES AND GREATER SHALL BE CLASS III RCP OR OTHER APPROVED MATERIAL 10. WHERE COVER EXCEEDS 20-FEET OR IS LESS THAN 2-FEET, CLASS IV RCP SHALL BE USED. SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB 11. IF CONTRACTOR PROPOSES TO USE HDPE OR PVC IN LIEU OF RCP FOR PRIVATE STORM SEWER. CONTRACTOR SHALL SUBMIT
  - TECHNICAL DATA TO THE OWNER, ENGINEER AND CITY ENGINEER/INSPECTOR FOR APPROVAL PRIOR TO ORDERING THE MATERIAL. ANY PROPOSED HDPE AND PVC SHALL BE WATERTIGHT. 12. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL STORM SEWER LINES.
  - 13.EMBEDMENT FOR ALL STORM SEWER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 14. ALL WYE CONNECTIONS AND PIPE BENDS ARE TO BE PREFABRICATED AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
  - 15. USE 4 FOOT JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100 FEET 16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.

17. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.

. ANY PONDS THAT ARE INTENDED TO HOLD WATER INDEFINITELY SHALL BE CONSTRUCTED WATERTIGHT 2. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR

POND LINER SPECIFICATIONS WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE REMOVED FROM THE SITE AND APPROPRIATELY DISPOSED BY THE 3. A GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE ALL POND LINER MATERIAL, PLACEMENT PROCEDURES, AND PROVIDE

- STORM SEWER PIPES AND HEADWALLS THAT CONNECT TO A POND INTENDED TO HOLD WATER INDEFINITELY SHALL BE INSTALLED WITH WATERTIGHT JOINTS TO AT LEAST 1-FOOT ABOVE THE NORMAL POOL WATER SURFACE ELEVATION. 5. ANY GRAVEL OR OTHER PERVIOUS EMBEDMENT AROUND PIPES OR OUTFALL STRUCTURES NEAR THE POND SHALL BE ELIMINATED FOR
- AT LEAST 20-FEET FROM THE POND SO NO ROUTE FOR WATER TO LEAK THROUGH THE EMBEDMENT MATERIAL IS PROVIDED. BACKFILL IN THESE AREAS SHALL BE OF IMPERVIOUS MATERIAL 6. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE WATER LEVEL FOLLOWING COMPLETION AND FILLING OF THE POND
- SHALL BE MONITORED BY THE CONTRACTOR FOR AT LEAST 60 DAYS TO OBSERVE WATER INFLOW, OUTFLOW, AND CALCULATE EVAPORATION TO VERIFY THAT THE POND IS WATERTIGHT 7. FOR ANY PONDS INTENDED TO HOLD WATER INDEFINITELY: THE POND WATER LEVEL SHALL ALSO BE MAINTAINED BY THE
- CONTRACTOR FOR THE DURATION OF CONSTRUCTION SO THAT IT REMAINS FULL TO ITS DESIGN WATER LEVEL, AND IS NOT LOWERED, AS THIS MAY DRY-OUT THE POND LINER AND RISK ITS WATERTIGHT PROPERTIES.

ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

- WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED. 3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF
- ALL UTILITY SERVICES ENTERING THE BUILDING. 4. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE. 5. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF
- 6. ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 7. ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE
- PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS. 8. FIRE SPRINKLER LINES SHALL BE DESIGNED AND INSTALLED BY A LICENSED FIRE SPRINKLER CONTRACTOR, AND COMPLY TO THE APPLICABLE CODES AND INSPECTIONS REQUIRED. THESE PLANS WERE PREPARED WITHOUT THE BENEFIT OF THE FIRE SPRINKLER DESIGN. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES.
- 9. EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS. 10. CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, TCEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS 11. CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES
- 12. ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE. 25. CONTRACTOR SHALL ENSURE THAT SUFFICIENT POSITIVE SLOPE AWAY FROM THE BUILDING PAD IS ACHIEVED FOR ENTIRE PERIMETER 13. CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED. AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT 14. CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING
  - PROPERTIES 15. CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED
  - SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. 16. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. 17. VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED
  - PAVEMENT 18. THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED
  - 19. ALL FIRE HYDRANTS, VALVES, TEES, BENDS, WYES, REDUCERS, FITTINGS, AND ENDS SHALL BE MECHANICALLY RESTRAINED AND/OR

- TESTING TO ENSURE THE POND LINER MATERIAL PLACED IS WATERTIGHT.

WATER AND WASTEWATER

2. CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND

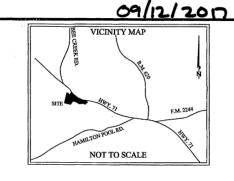
THE WATER AND WASTEWATER IMPROVEMENTS.

|                            |                      |  |  |  | ВY                          |
|----------------------------|----------------------|--|--|--|-----------------------------|
| 2                          | 0.CONTRA             | BLOCKED TO CITY STANDARDS.<br>CTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE  |  |  |                             |
| D 2                        | 1.ALL CRC            | ARE GREATER THAN 9-FEET FROM THE CROSSING.<br>SSINGS AND LOCATIONS WHERE WASTEWATER IS LESS THAN 9-FEET FROM WATER, WASTEWATER CONSTRUCTION AND<br>ALS SHALL COMPLY WITH TCEQ CHAPTER 217.53.  |  |  | DATE                        |
|                            | 2.ALL CRC<br>SHALL C | SSING AND LOCATIONS WHERE WATER IS LESS THAN 9-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS<br>OMPLY WITH TCEQ CHAPTER 290.44.<br>ER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TCEQ STANDARDS AND  |  |  |                             |
|                            | SPECIFIC             | ER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND TOED STANDARDS AND<br>CATIONS. AT A MINIMUM, THIS SHALL CONSIST OF THE FOLLOWING:<br>'ERLINES SHALL BE HYDROSTATICALLY TESTED AND CHLORINATED BEFORE BEING PLACED INTO SERVICE. CONTRACTOR  |  |  |                             |
| b                          | . WASTEV             | OORDINATE WITH THE CITY FOR THEIR REQUIRED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS.<br>/ATER LINES AND MANHOLES SHALL BE PRESSURE TESTED. CONTRACTOR SHALL COORDINATE WITH THE CITY FOR THEIR<br>ED PROCEDURES AND SHALL ALSO COMPLY WITH TCEQ REGULATIONS. AFTER COMPLETION OF THESE TESTS, A TELEVISION   |  |  |                             |
| 2                          | INSPECT<br>4.CONTRA  | ION SHALL BE PERFORMED AND PROVIDED TO THE CITY AND OWNER ON A DVD.<br>CTOR SHALL INSTALL DETECTABLE WIRING OR MARKING TAPE A MINIMUM OF 12" ABOVE WATER AND WASTEWATER LINES.   |  |  |                             |
| 2                          | SHALL C              | DECALS SHALL BE LABELED "CAUTION - WATER LINE", OR "CAUTION - SEWER LINE". DETECTABLE WIRING AND MARKING TAPE<br>OMPLY WITH CITY STANDARDS, AND SHALL BE INCLUDED IN THE COST OF THE WATER AND WASTEWATER PIPE.<br>IRON PIPE SHALL BE PROTECTED FROM CORROSION BY A LOW-DENSITY POLYETHYLENE LINER WRAP THAT IS AT LEAST A |  |  | SNO                         |
| Y                          | SINGLE I             | AYER OF 8-MIL. ALL DUCTILE IRON JOINTS SHALL BE BONDED.<br>INES SHALL BE INSTALLED AT NO LESS THAN THE MINIMUM COVER REQUIRED BY THE CITY.   |  |  | REVISIONS                   |
| 2                          | INTERVA              | CTOR SHALL PROVIDE CLEAN-OUTS FOR PRIVATE SANITARY SEWER LINES AT ALL CHANGES IN DIRECTION AND 100-FOOT<br>LS, OR AS REQUIRED BY THE APPLICABLE PLUMBING CODE. CLEAN-OUTS REQUIRED IN PAVEMENT OR SIDEWALKS SHALL<br>ST IRON COVERS FLUSH WITH FINISHED GRADE.   |  |  | RE                          |
| 2                          | 8.CONTRA<br>FLOOR E  | CTOR SHALL PROVIDE BACKWATER VALVES FOR PLUMBING FIXTURES AS REQUIRED BY THE APPLICABLE PLUMBING CODE (E.G.<br>ELEVATION OF FIXTURE UNIT IS BELOW THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE   |  |  |                             |
| 2                          | 9.THE CON            | SEWER). CONTRACTOR SHALL REVIEW BOTH MEP AND CIVIL PLANS TO CONFIRM WHERE THESE ARE REQUIRED.<br>ITRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL<br>ER IN THE STATE OF TEXAS. TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH    |  |  |                             |
| т                          | SAFETY<br>OPEN TF    | REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO<br>RENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.   |  |  |                             |
| 31                         |                      | ITRACTOR SHALL KEEP TRENCHES FREE FROM WATER.  |  |  | Ň                           |
| <sub>Е</sub> <u>А</u><br>А |                      | AREA   |  | , INC.<br>AUSTIN, TX 78735<br>91         |                             |
| A                          | AWWA                 | AMERICANS WITH DISABILITIES ACT<br>AMERICAN WATER WORKS ASSOCIATION  |  | N, TX                                    |                             |
| В                          | BC                   | BACK TO BACK<br>BEGIN CURVE<br>BACK OF CURB  | 0  | INC.<br>AUSTI<br>91                      | F-928                       |
| В                          | BCR                  | BACK OF CORD<br>BEGIN CURB RETURN<br>BEST MANAGEMENT PRACTICE  |  |  | 1<br>FIRM F                 |
| В                          | BOC                  | BACK OF CURB<br>BEGIN VERTICAL CURVE ELEVATION   |  | OCIA<br>UITE<br>12-41                    |                             |
| B'<br>B'                   | BVCS<br>BW           | BEGIN VERTICAL CURVE STATION<br>BOTTOM OF WALL   |  | ID ASS<br>IG 2, SI<br>FAX: 5             | .EY-HORN.CON<br>ENGINEERING |
| С                          | CITY                 | CUBIC FEET PER SECOND<br>CITY, TOWN, OR OTHER APPLICABLE LOCAL GOVERNMENT JURISDICTION   |  | ORN AND<br>BUILDING<br>€-2237 FA         | -EY-h                       |
| С                          | CL                   | CENTERLINE<br>CENTERLINE<br>CONCRETE   |  | -HORN A<br>Y, BUILDI<br>646-2237         | www.kimley<br>Gistered en   |
| С                          | Y                    | CUBIC YARD<br>DEMOLITION   | Ð  | ALEY.<br>KWA'<br>512-                    | www<br>REGISTE              |
| L D                        | )G<br>)TL            | DECOMPOSED GRANITE<br>DETAIL   |  | 2023 KIN<br>ST PARI<br>PHONE:            | RE(                         |
| E                          | C                    | EACH<br>END CURVE  |  | © 20<br>WEST<br>PF                       | TEXAS                       |
| Е                          | G                    | END CURB RETURN<br>EXISTING GROUND<br>ELEVATION  |  | © 202<br>5301 SOUTHWEST<br>PH            | ·                           |
| E                          | LEC                  | ELEVATION<br>ELECTRICAL / ELECTRICITY<br>ELEVATION   |  | 101 SC                                   |                             |
| E                          | PA                   | UNITES STATES ENVIRONMENTAL PROTECTION AGENCY<br>EASEMENT  |  | 53                                       |                             |
|                            | VCS                  | END VERTICAL CURVE ELEVATION<br>END VERTICAL CURVE STATION   | Rud  | 2  |                             |
| F.                         | -F                   | EXISTING<br>FACE TO FACE   | E OF   | TEXA                                     |                             |
| F                          | Ή                    | FINISHED GROUND<br>FIRE HYDRANT<br>FLOWLINE  |  | <b>*</b>                                 |                             |
|                            | OC                   | FLOW LINE<br>FACE OF CURB<br>FEET  | BRYCE A  | . BARR                                   |                             |
| Н                          | IGL                  | HYDRAULIC GRADE LINE<br>KIMLEY-HORN AND ASSOCIATES, INC.   | 1477<br>P. (/CFN                               | 39<br>SED.                               |                             |
| - K                        | (HA<br>AT            | KIMLEY-HORN AND ASSOCIATES, INC.<br>LATERAL  | SVONAL   | ENGINE 06/01                             | /2023                       |
| LI                         | T                    |  |  | Σ g g                                    | BB                          |
| Μ                          | ΛE                   | MAXIMUM<br>MATCH EXISTING ELEVATION<br>MANHOLE   | KHA PROJECT<br>067786844<br>DATE<br>02/23/2023 | SHOWN<br>RSB<br>CRS                      | BAB                         |
| Μ                          | /IN                  | MINUTE / MINIMUM<br>NUMBER   | HA PROJEC<br>067786844<br>DATE<br>02/23/2023   | S   ∑                                    | BΥ:                         |
| N                          | TOT                  | NOTICE OF INTENT, REF. TCEQ GENERAL PERMIT<br>NOTICE OF TERMINATION, REF. TCEQ GENERAL PERMIT  | КНА<br>06<br>02                                | SCALE: A<br>DESIGNED E<br>DRAWN BY:      | CHECKED                     |
| 0                          | C                    | NOT TO SCALE<br>ON CENTER<br>OFFSET  |  | SC DE DE                                 | GH I                        |
| ΕÖ                         | OSHA                 | OFFSET<br>OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION<br>POINT OF CURVATURE  |  |  |                             |
| Р                          | CC                   | PORTLAND CEMENT CONCRETE / POINT OF COMPOUND CURVATURE<br>PROPOSED GRADE LINE  |  |  |                             |
|                            |                      | POINT OF INFLECTION<br>PROPOSED  |  | S  |                             |
| P                          | PSI                  | POINT OF REVERSE CURVATURE<br>POUNDS PER SQUARE INCH   | Z  | -  |                             |
| P                          | VC                   | POINT OF TANGENCY<br>POLYVINYL CHLORIDE<br>POINT OF VERTICAL INFLECTION  | L<br>L<br>L<br>L                               |  |                             |
| н<br>С Р                   | VMT                  | POINT OF VERTICAL INFLECTION<br>PAVEMENT<br>REINFORCED CONCRETE PIPE   | <u> </u>                                       | ž  |                             |
| R<br>R                     | ROW<br>RT            | RIGHT OF WAY<br>RIGHT  |  |  |                             |
| S                          | S                    | SQUARE FEET<br>SANITARY SEWER  |  | <b>X</b>                                 |                             |
| S                          | ТА                   | SANITARY SEWER MANHOLE<br>STATION<br>STANDARD  |  | ENERAL NOTE                              |                             |
| S                          | SY                   | STANDARD<br>SQUARE YARD<br>ARCHITECTURAL BARRIERS TEXAS ACCESSIBILITY STANDARDS  |  | Z  |                             |
| R T<br>L T                 | TC<br>TCEQ           | TOP OF CURB<br>TEXAS COMMISSION OF ENVIRONMENTAL QUALITY   |  | Ш<br>()                                  |                             |
| T.                         | XDOT                 | TEMPORARY<br>TEXAS DEPARTMENT OF TRANSPORTATION  |  | Ú  |                             |
| Т                          | W                    | TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES<br>TOP OF WALL<br>TYPICAL  |  |  |                             |
| , V                        | /C                   | VERTICAL CURVE<br>WATER  |  |  |                             |
| W                          | VW                   | WASTEWATER   |  |  |                             |
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|                            |                      |  |  | CITY OF BEE CAVE<br>TRAVIS COUNTY, TEXAS |                             |
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|                            |                      |  | SWEETWATER CROSSI                              | -  |                             |
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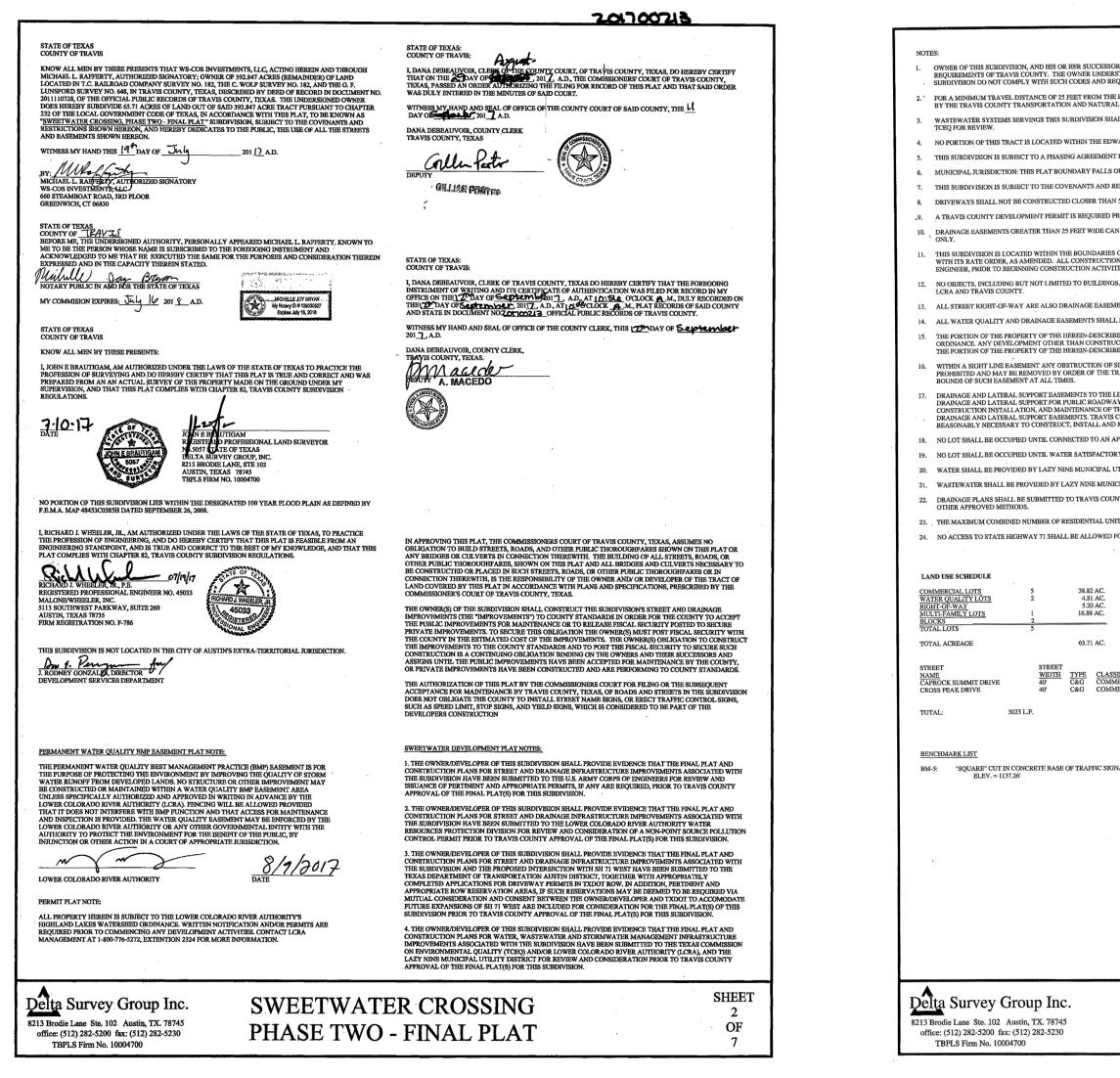
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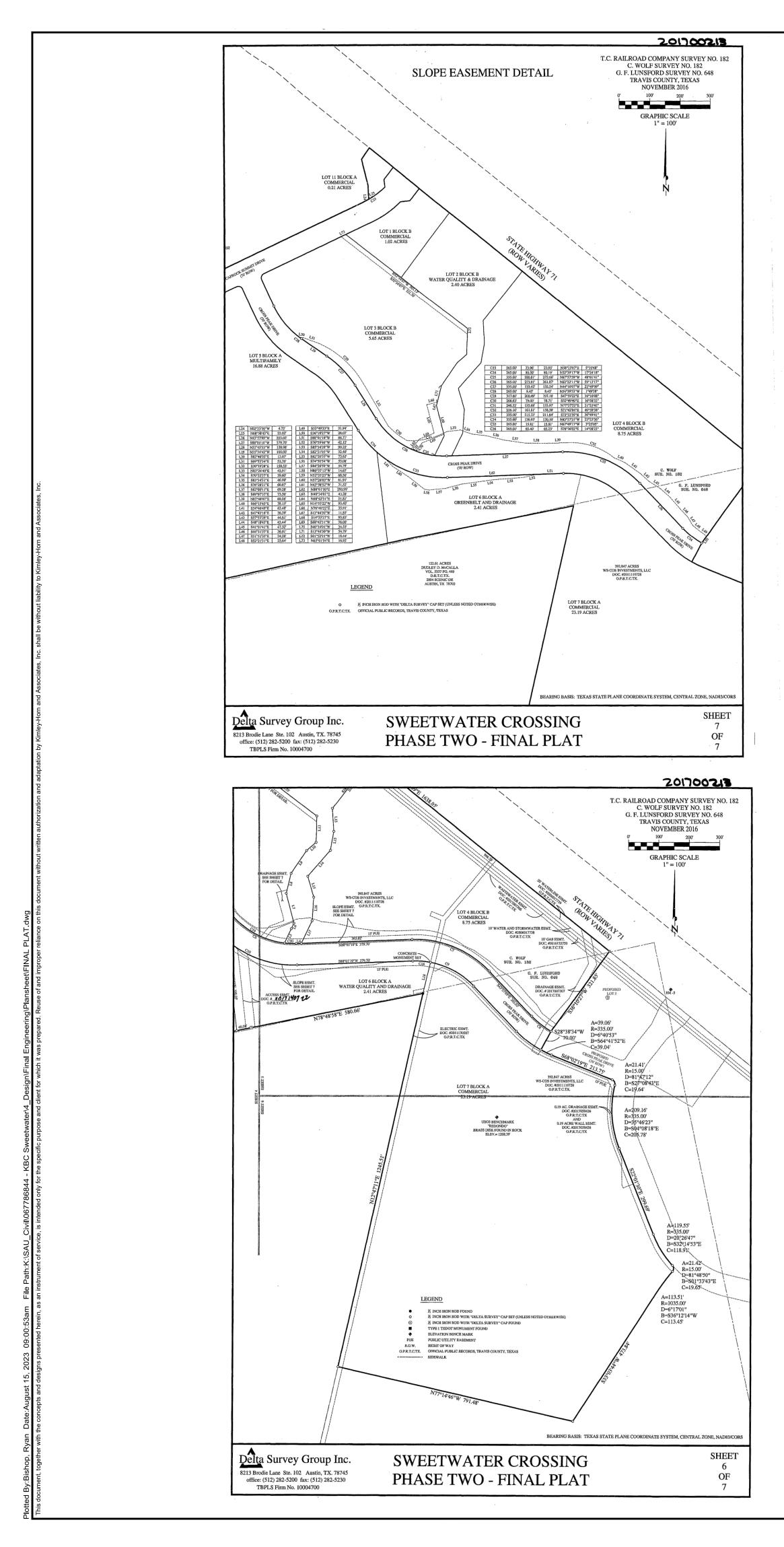
TRAVIS COUNTY CONSUMER PROTECTION NOTICE FOR HOMEBUYERS: IF YOU ARE BUYING A LOT OR HOME, YOU SHOULD DETERMINE WHETHER IT IS INSIDE OR OUTSIDE THE CITY LIMITS. DEPENDING ON STATE LAW AND OTHER FACTORS, LAND OUTSIDE THE CITY LIMITS MAY BE SUBJECT TO FEWER LOCAL GOVERNMENT CONTROLS OVER THE DEVELOPMENT AND USE OF LAND THAN INSIDE THE CITY LIMITS. BECAUSE OF THIS, LOCAL GOVERNMENT MAY NOT BE ABLE TO RESTRICT THE NATURE OR EXTENT OF DEVELOPMENT NEAR THE LOT OR HOME NOR PROHIBIT NEARBY LAND USES THAT ARE **INCOMPATIBLE WITH A RESIDENTIAL** NEIGHBORHOOD. THIS CAN AFFECT THE VALUE **OF YOUR PROPERTY. TRAVIS COUNTY REQUIRES** THIS NOTICE TO BE PLACED ON SUBDIVISION PLATS. IT IS NOT A STATEMENT OR **REPRESENTATION OF THE OWNER OF THE** PROPERTY, THE SUBDIVIDER, OR THEIR **REPRESENTATIVES.** SHEET

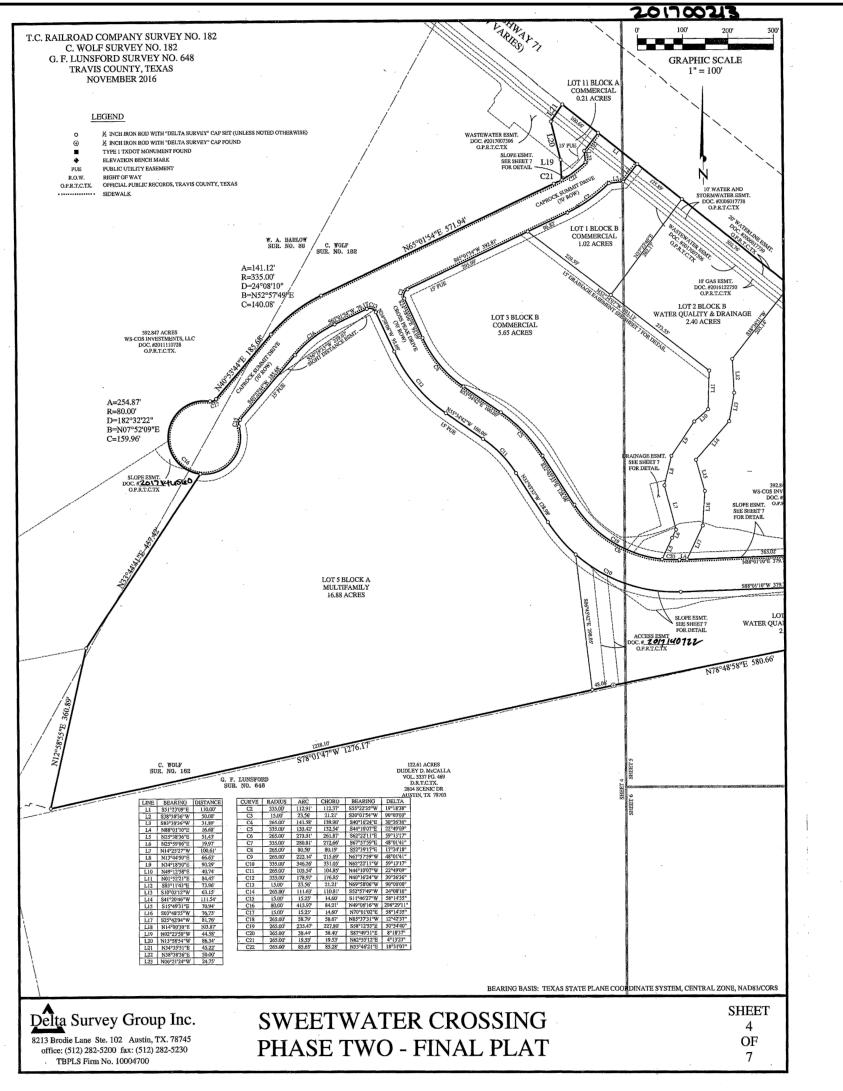
| Delta Survey Group Inc.  | SWEETWATER CROSSING    |
|--|------------------------|
| 8213 Brodie Lane Ste. 102 Austin, TX. 78745<br>office: (512) 282-5200 fax: (512) 282-5230<br>TBPLS Firm No. 10004700 | PHASE TWO - FINAL PLAT |



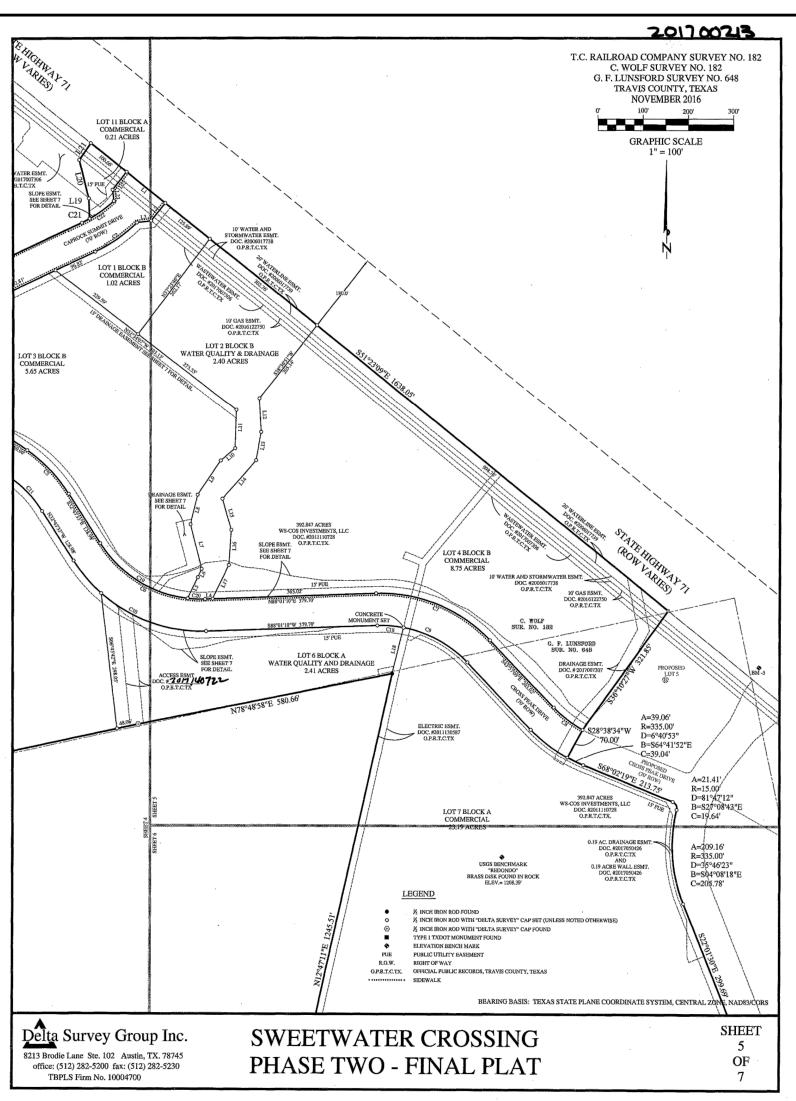
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|---|---|
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| SSORS AND ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND<br>BERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR REPLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS<br>I REQUIREMENTS.<br>THE ROADWAY EDGE, DRIVEWAY GRADES MAY EXCEED 14% ONLY WITH THE SPECIFIC WRITTEN APPROVAL OF THE SURFACE AND GEOMETRIC DESIGN PROPOSALS  |   |
| RAL RESOURCES.<br>SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH TRAVIS COUNTY PLANS AND SPECIFICATIONS. PLANS AND SPECIFICATION SHALL BE SUBMITTED TO  |   |
| EDWARDS AQUIFER RECHARGE ZONE.<br>ENT RECORDED AS DOCUMENT NO <b>ZOTIVLE (LO</b> OF THE OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS<br>LS OUTSIDE C.O.A. ETJ, LAKEWAY ETJ, AND WILL BE REGULATED BY TRAVIS COUNTY. MUNICIPAL JURISDICTION - BEE CAVE ETJ.   | KEVISIONS   |
| D RESTRICTIONS RECORDED AS DOCUMENT NO. 2017032085. OFFICIAL PUBLIC RECORDS, TRAVIS COUNTY, TEXAS<br>IAN 50 FEET OR 60% OF THE LOT'S FRONTAGE TO THE EDGE OF PAVEMENT OF AN INTERSECTING LOCAL OR COLLECTOR STREET.<br>D PRIOR TO ANY SITE DEVELOPMENT.   | REV   |
| CAN BE USED FOR OPEN CHANNEL OR ENCLOSED CONDUIT SYSTEMS. DRAINAGE EASEMENTS 15 FEET WIDE ARE FOR ENCLOSED CONDUIT DRAINAGE SYSTEMS   |   |
| IES OF THE LAZY NINE MUNICIPAL DISTRICT IA. WATER AND WASTEWATER SERVICE TO THIS SUBDIVISION WILL BE PROVIDED BY THE DISTRICT IN ACCORDANCE<br>TION PLANS FOR WATER, WASTEWATER, AND STORM DRAINAGE IMPROVEMENTS MUST BE PRESENTED TO THE DISTRICT AND APPROVED BY THE DISTRICT'S<br>IVITIES. THE DISTRICT MAY INSPECT ALL WATER, WASTEWATER, AND STORM DRAINAGE IMPROVEMENTS.<br>NGS, FENCES, LANDSCAPING OR OTHER STRUCTURES SHALL BE ALLOWED IN DRAINAGE EASEMENTS AND WATER QUALITY EASEMENTS EXCEPT AS APPROVED BY   |   |
| EMENTS, WATER AND WASTEWATER EASEMENTS, AND GAS EASEMENTS AS PROVIDED BY LAZY NINE MUNICIPAL UTILITY DISTRICT IA.<br>ALL BE MAINTAINED BY THE LAZY NINE MUNICIPAL UTILITY DISTRICT IA.  |   |
| RIBED SUBDIVISION THAT DRAINS TO LAKE TRAVIS IS SUBJECT TO THE LOWER COLORADO RIVER AUTHORITY'S NONPOINT-SOURCE (NFS) POLUTION CONTROL<br>RUCTION OF A SINGLE-FAMILY HOME OR ASSOCIATED STRUCTURE MAY REQUIRE AN NEWS DEVELOPMENT PERMIT FROM THE LOWER COLORADO RIVER AUTHORITY.<br>RIBED SUBDIVISION THAT DRAINS TO LITTLE BARTON CREEK IS SUBJECT TO THE CITY OF BEE CAVE NONPOINT SOURCE POLUTION CONTROL REGULATIONS.<br>DE SIGHT LINE BY VEGETATION, FENCING, EARTHWORK, BUILDINGS, SIGNS OR ANY OTHER OBJECT WITH IS DETERMINED TO CAUSE A TRAFFIC HAZARD IS<br>E TRAVIS COUNTY COMMISSIONERS COURT AT THE OWNER'S EXPENSE. THE PROPERTY OWNER IS TO MAINTAIN AN UNOBSTRUCTED VIEW CORRIDOR WITHIN THE | S S S S S S S S S S S S S S S S S S S   |
| E LIMITS SHOWN ON THIS PLAT ARE HEREBY DEDICATED TO THE PUBLIC FOR THE CONSTRUCTION, MAINTENANCE AND THE RIGHT TO PLACE EARTHEN FILL FOR<br>WAYS ON THIS PLAT. PROPERTY OWNERS MAY USE THEIR PROPERTY WITHIN THESE EASIMENTS ONLY IN THOSE WAYS THAT ARE CONSISTENT WITH THE<br>JF THE DRAINAGE AND LATERAL SUPPORT EASEMENT DEDICATED HEREIN. PROPERTY OWNERS MAY DO NOTHING THAT WOULD IMPAIR, DAMAGE OR DESTROY THE<br>JS COUNTY AND ITS SUCCESSOR AND ASSIGNS HAYE THE RIGHT TO USE SO MUCH OF THE SURFACE OF THE PROPERTY WITHIN THE EASEMENTS AS MAY BE<br>IND MAINTAIN DRAINAGE AND LATERAL SUPPORT FACILITIES WITHIN THE EASEMENTS  | X 7873  |
| N APPROVED PUBLIC SEWER SYSTEM.   | O<br>MC.<br>JSTIN, TX 78735<br>928  |
| TORY FOR HUMAN CONSUMPTION IS AVAILABLE FROM A SOURCE IN ADEQUATE AND SUFFICIENT SUPPLY FOR THIS PROPOSED DEVELOPMENT.<br>J. UTILITY DISTRICT 1A.<br>INICIPAL UTILITY DISTRICT 1A.  | FES, INC.<br>3-1791<br>RM F-921   |
| OUNTY FOR REVIEW PRIOR TO SITE DEVELOPMENT. RAINFALL RUN-OFF SHALL BE HELD TO THE AMOUNT EXISTING AT UNDEVELOPED STATUS BY PONDING OR<br>UNITS ON LOT 2, BLOCK A AND LOT 5, BLOCK A OF SWEETWATER CROSSING IS 847.  | N AND ASSOCIATES, IN<br>ILDING 2, SUITE 100, AI<br>EY-HORN.COM<br>ENGINEERING FIRM F-   |
| SD FOR LOT 11, BLOCK A.   | ND AS<br>ING 2, 5<br>GINEEF   |
|   | MLEY-HORN AND ASSOCIATES, IN<br>KWAY, BUILDING 2, SUITE 100, AU<br>: 512-646-2237 FAX: 512-418-1791<br>WWW.KIMLEY-HORN.COM<br>GISTERED ENGINEERING FIRM F-6 |
|   | © 301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AU<br>PHONE: 512-646-2237 FAX: 512-418-1791<br>WWW.KIMLEY-HORN.COM<br>TEXAS REGISTERED ENGINEERING FIRM F-6 |
| ASSIFICATION · OWNERSHIP LENGTH<br>MMERCIAL COLLECTOR PUBLIC 1134 LF.   | 2023 KII<br>ST PAR<br>PHONE   |
| MMERCIAL COLLECTOR PUBLIC 1889 L.F.   | TEN I I I I I I I I I I I I I I I I I I I   |
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|   | BRYCE A. BARR   |
|   | 70, 147739<br>70, (/CENSED, ()<br>550,000 ENG   |
| SWEETWATER CROSSING   | ₹ m m m   |
| Sweet water crossing3PHASE TWO - FINAL PLAT0F7  | BAB BAB   |
|   | KHA PROJECT<br>067786844<br>067786844<br>DATE<br>02/23/2023<br>SCALE: AS SHO<br>DESIGNED BY: RS<br>DRAWN BY: CF<br>CHECKED BY: BJ                           |
|   | KHA PF<br>06778<br>06778<br>06778<br>02723<br>02723<br>02723<br>DA<br>DA<br>DRAWN BY:<br>CHECKED B  |
|   |   |
|   | 5   |
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|   | FINAL PLAT (1 OF 2)   |
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|   |   |
|   | U N N N N N N N N N N N N N N N N N N N   |
|   | SSI   |
|   |   |
|   | SWEETWATER CROSSING<br>LAST MILE FACILTY<br>CITY OF BEE CAVE<br>TRAVIS COUNTY, TEXAS  |
|   |   |
|   |   |
|   | ET<br>AS<br>CI  |
|   |   |
|   | N<br>N  |
|   | SHEET NUMBER  |
|   |   |

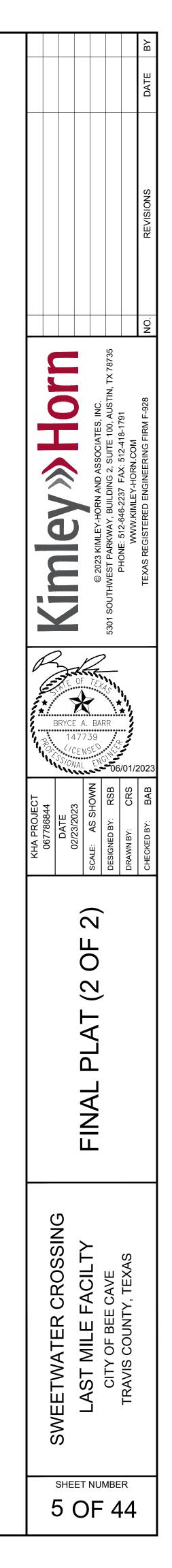
4 OF 44

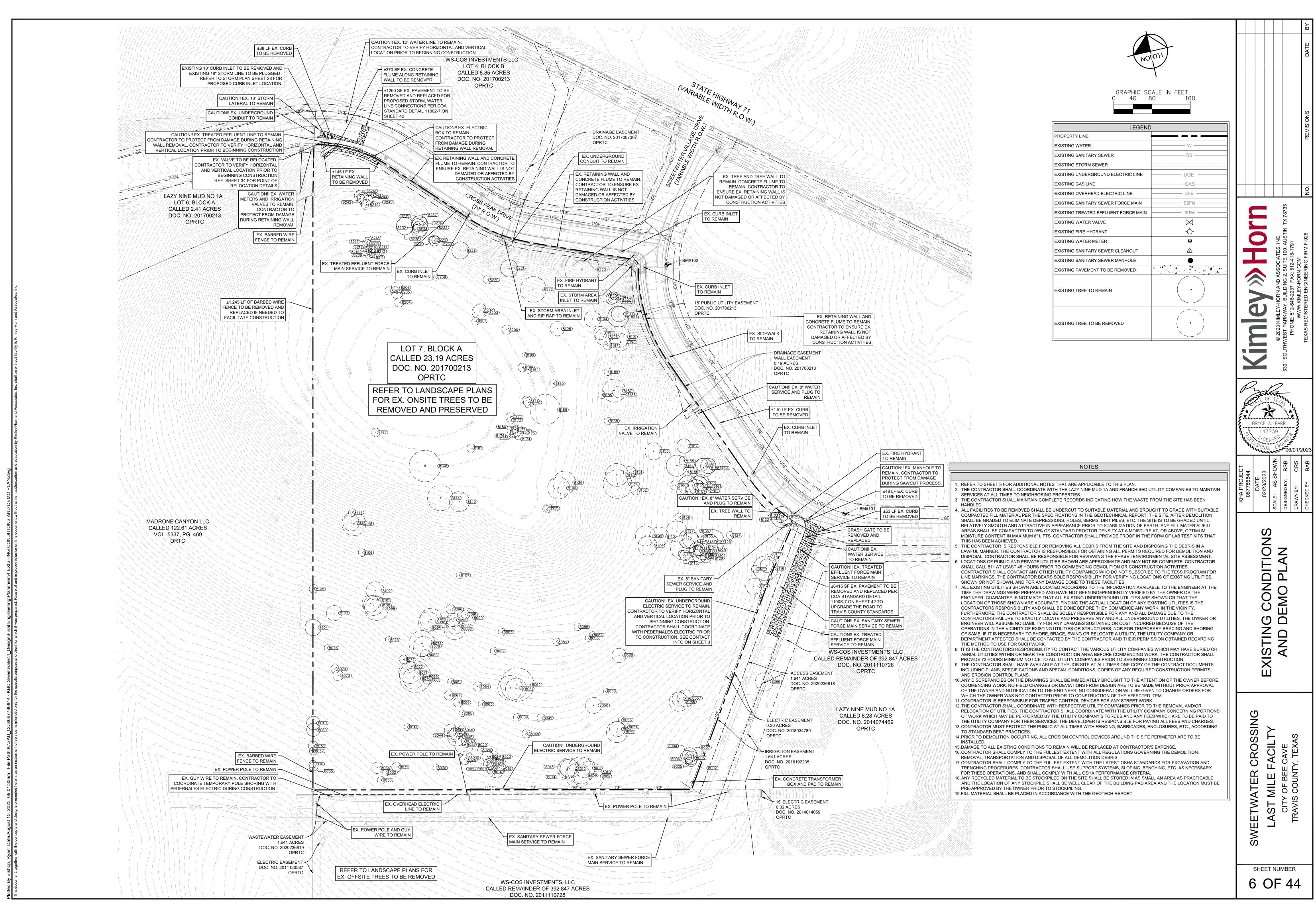


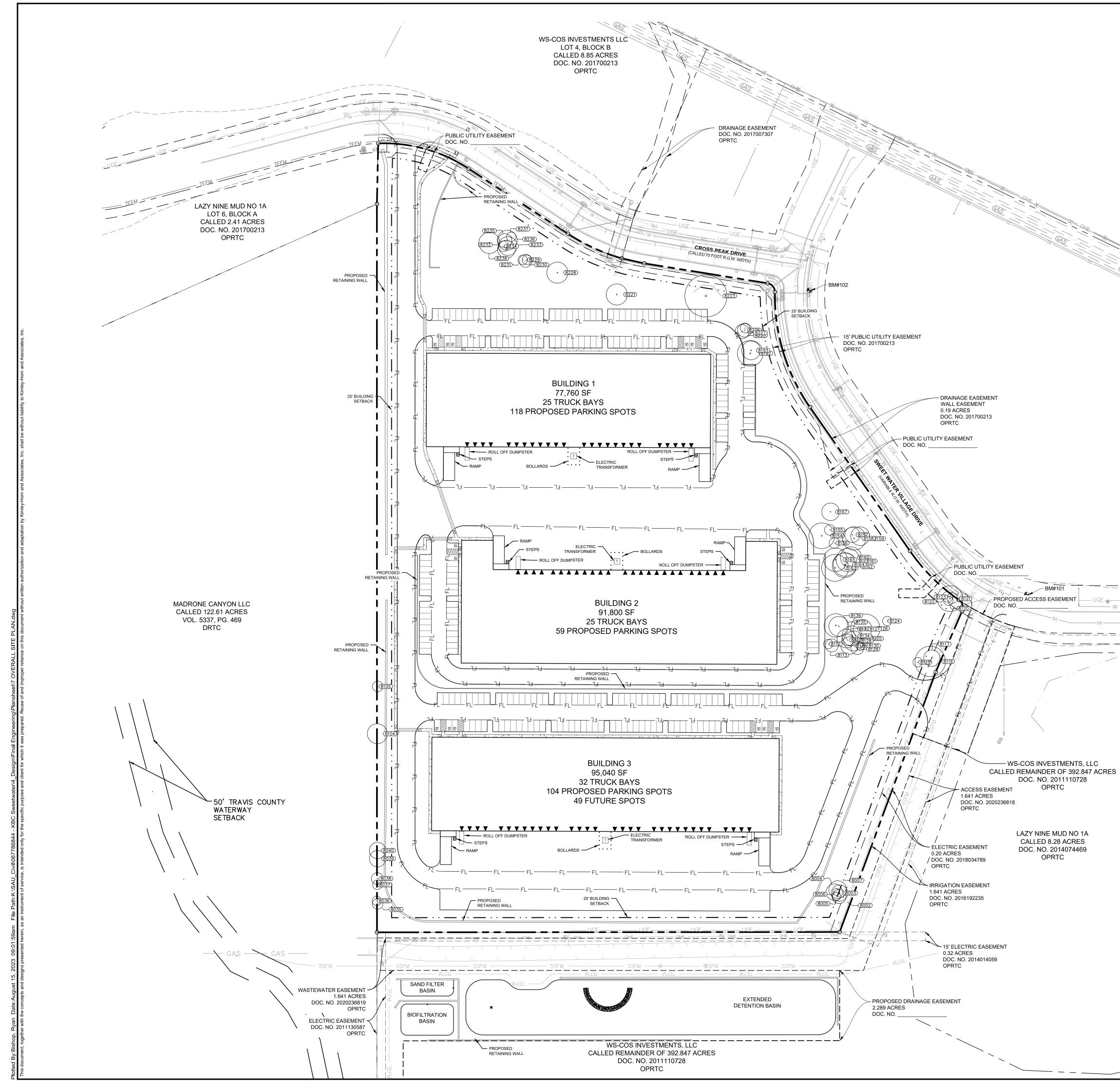


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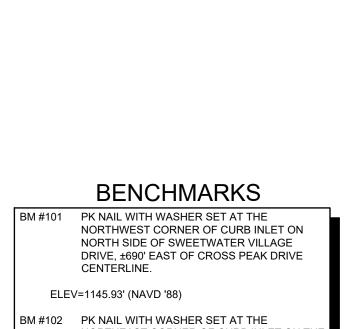


GRAPHIC SCALE IN FEET 40 80 160 LEGEND PROPERTY BOUNDARY PROPOSED FIRE LANE ----- FL ----- FL ----PROPOSED PARKING COUNT  $\bigotimes \land \boxtimes$ (SEE KEYNOTE LEGEND THIS SHEET) £ PROPOSED ACCESSIBLE PARKING SPACE PROPOSED BARRIER FREE RAMP EXISTING SANITARY SEWER MANHOLE (W) EXISTING FIRE HYDRANT ÷ EXISTING POWER POLE  $\heartsuit$ EXISTING SANITARY SEWER LINE EXISTING WATER LINE

| SITE DATA TABLE        |           |  |
|------------------------|-----------|--|
|                        | PROPOSED  |  |
| GROSS AREA (SF)        | 1,010,239 |  |
| BUILDING COVERAGE (SF) | 264,600   |  |
| BUILDING COVERAGE (%)  | 26%       |  |
| FAR                    | 0.26      |  |
| IMPERVIOUS COVER (SF)  | 678,322   |  |
| IMPERVIOUS COVER (%)   | 67.1%     |  |

| PARKING TABLE           |                                  |  |
|-------------------------|----------------------------------|--|
| PROPOSED                |                                  |  |
| USE                     | INDUSTRIAL                       |  |
| REQUIREMENTS            | MIN. 1/5000 SF, MAX.<br>1/350 SF |  |
| GROSS BUILDING SQUARE   | 264,600                          |  |
| REQUIRED MIN. PARKING   | 53 SPACES                        |  |
| REQUIRED MAX. PARKING   | 756 SPACES                       |  |
| TYPICAL SPACES PROVIDED | 257                              |  |
| ADA SPACES REQUIRED     | 16                               |  |
| ADA SPACES PROVIDED     | 16                               |  |
| TOTAL SPACES PROVIDED   | 273                              |  |

| BUILDING DATE TABLE |         |  |  |  |  |  |  |  |
|---------------------|---------|--|--|--|--|--|--|--|
| USE INDUSTRIAL      |         |  |  |  |  |  |  |  |
| NO. OF BUILDINGS    | 3       |  |  |  |  |  |  |  |
| NO. OF STORIES      | 1       |  |  |  |  |  |  |  |
| HEIGHT              | 32'     |  |  |  |  |  |  |  |
| SQUARE FOOTAGE      | 264,600 |  |  |  |  |  |  |  |

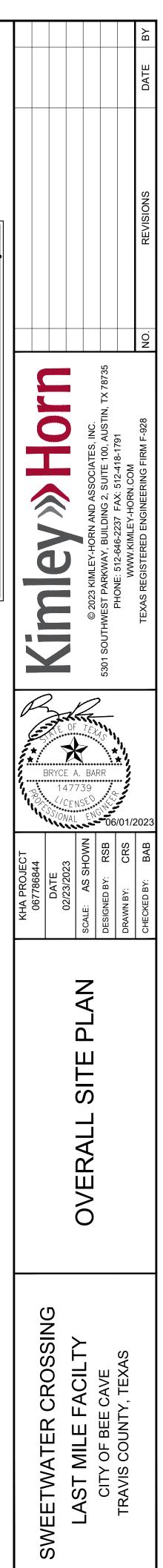


NORTHEAST CORNER OF CURB INLET ON THE EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

ELEV=1157.662' (NAVD '88)

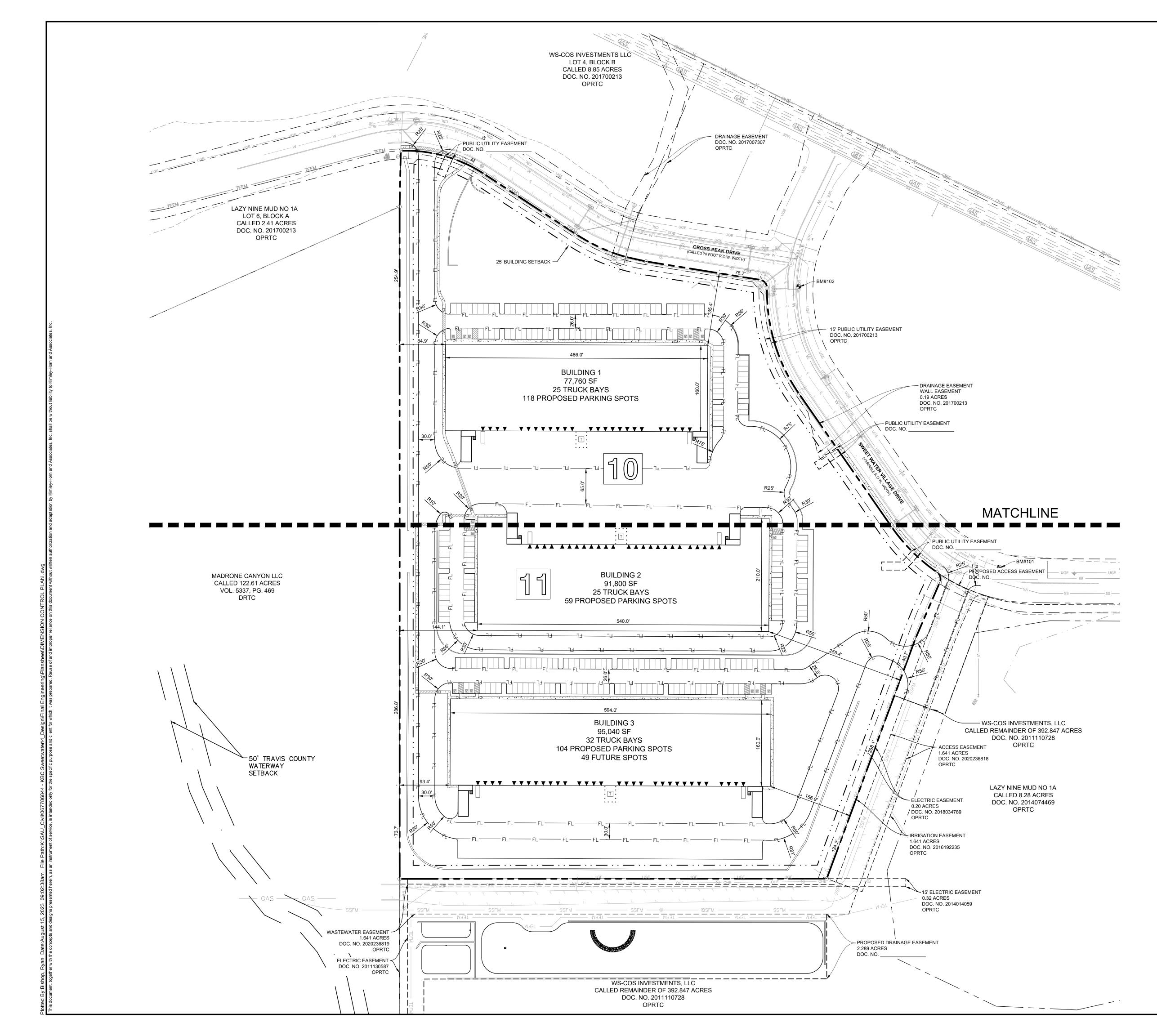


Know what's **below. Call** before you dig.



SHEET NUMBER

8 OF 44





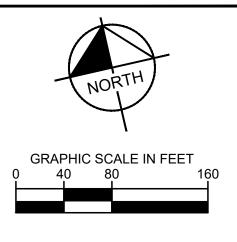
# BENCHMARKS

BM #101 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE CENTERLINE.

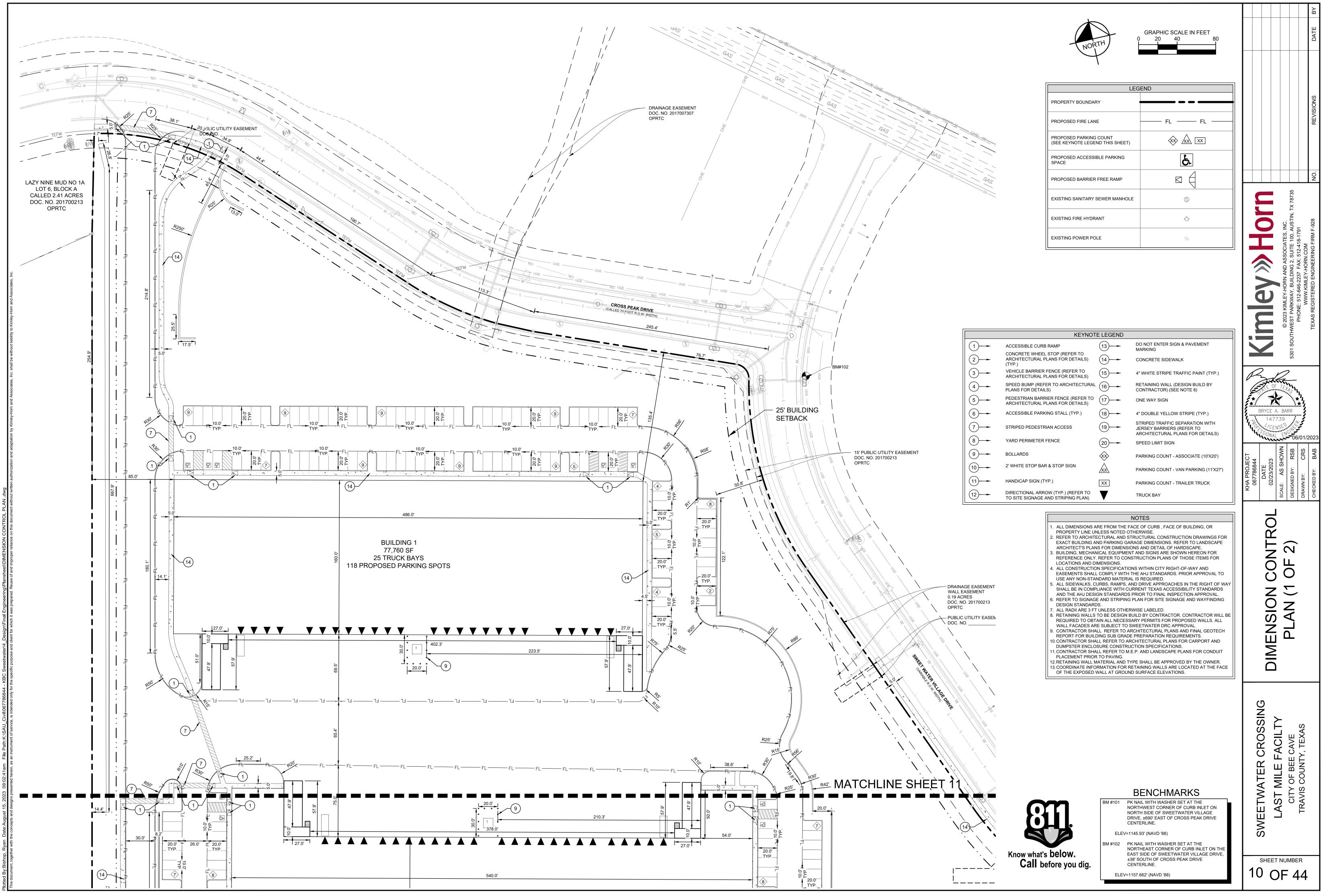
ELEV=1145.93' (NAVD '88)

BM #102 PK NAIL WITH WASHER SET AT THE NORTHEAST CORNER OF CURB INLET ON THE EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

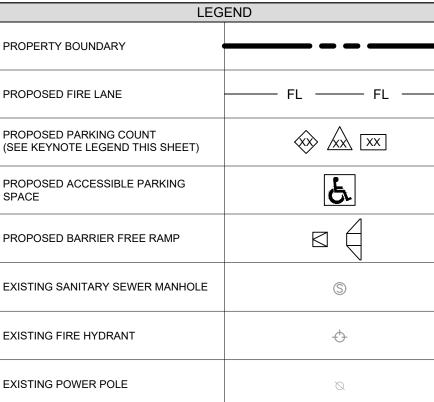




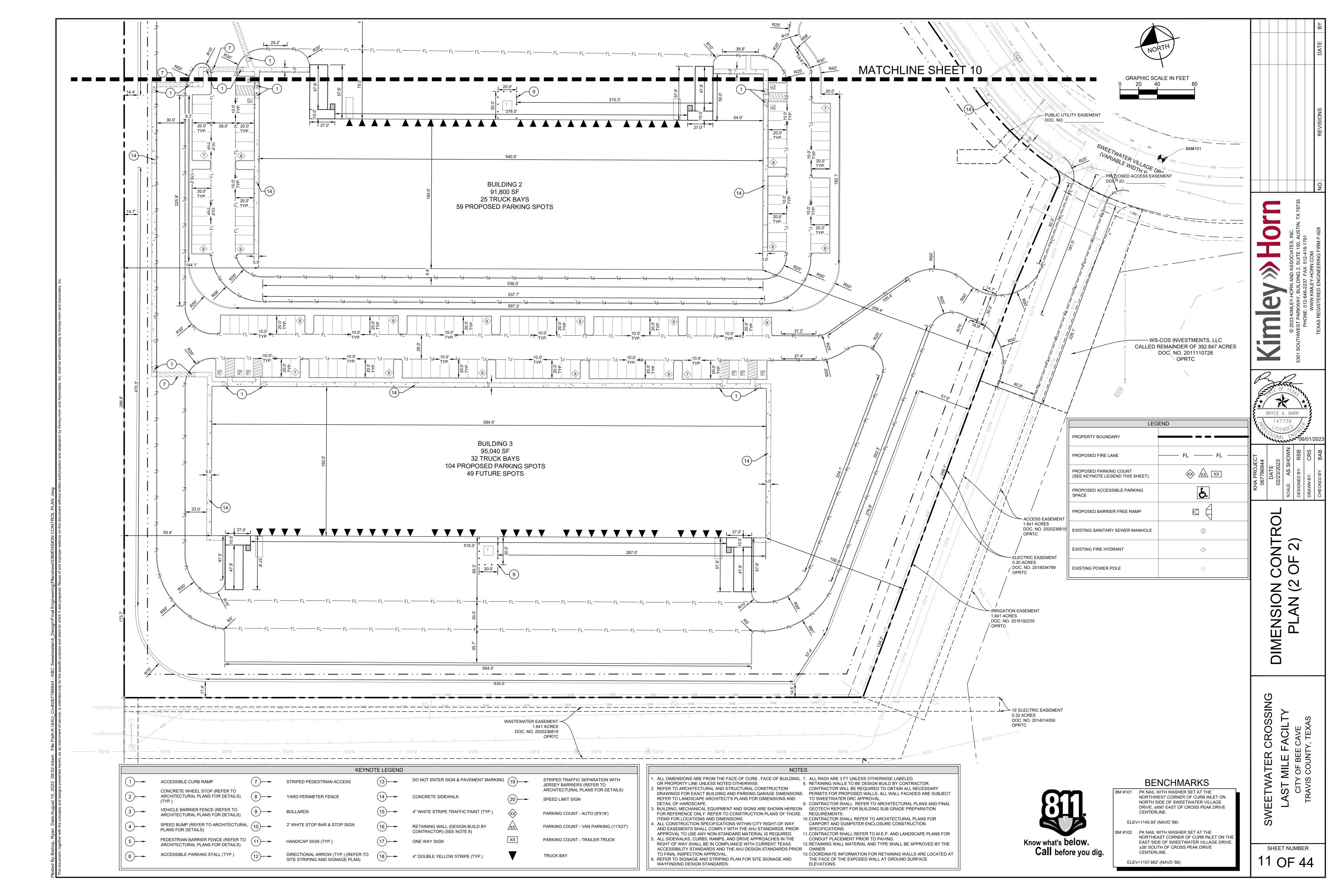
|                          |                     |   |   |  | BΥ                                      |
|--------------------------|---------------------|---|---|--|---|
|                          |                     |   |   |  | DATE B                                  |
|                          |                     |   |   |  | Ď                                       |
|                          |                     |   |   |  |   |
|                          |                     |   |   |  | SNO                                     |
|                          |                     |   |   |  | REVISIONS                               |
|                          |                     |   |   |  |   |
|                          |                     |   |   |  | ON                                      |
|                          |                     |   | 8735  |  | Z                                       |
|                          | NIII IEV »> TOI     | © 2023 KIMLEY-HORN AND ASSOCIATES, INC. | 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735 | PHONE: 512-646-2237_FAX: 512-418-1791<br>WWW.KIMLEY-HORN.COM | TEXAS REGISTERED ENGINEERING FIRM F-928 |
|                          | 2                   | $\sim$                                  | 230   |  |   |
|                          | ALE O               | F TEX                                   | ورور<br>الو <sup>ري</sup><br>ال                                 | · .  |   |
| *<br><br>PP              | BRYCE<br>147        | А. ВА<br>739                            | RR  | *****  |   |
|                          | SSIONA              |   |   | 5/01/2<br>(0   | 2023                                    |
| KHA PROJECT<br>067786844 | DATE<br>02/23/2023  | AS SHOWN                                | BY: RSB   | CRS  | BY: BAB                                 |
| КНА Р<br>0677            | 02/2                | SCALE:                                  | DESIGNED BY:  | DRAWN BY   | CHECKED BY:                             |
|                          | OVERALL DIMENSION   |   | CON KOL PLAN  |  |   |
|                          | SWEELWALER CROSSING | LAST MILE FACILTY                       | CITY OF BEE CAVE  | TRAVIS COUNTY, TEXAS   |   |
|                          | S<br>N              |   |   |  |   |

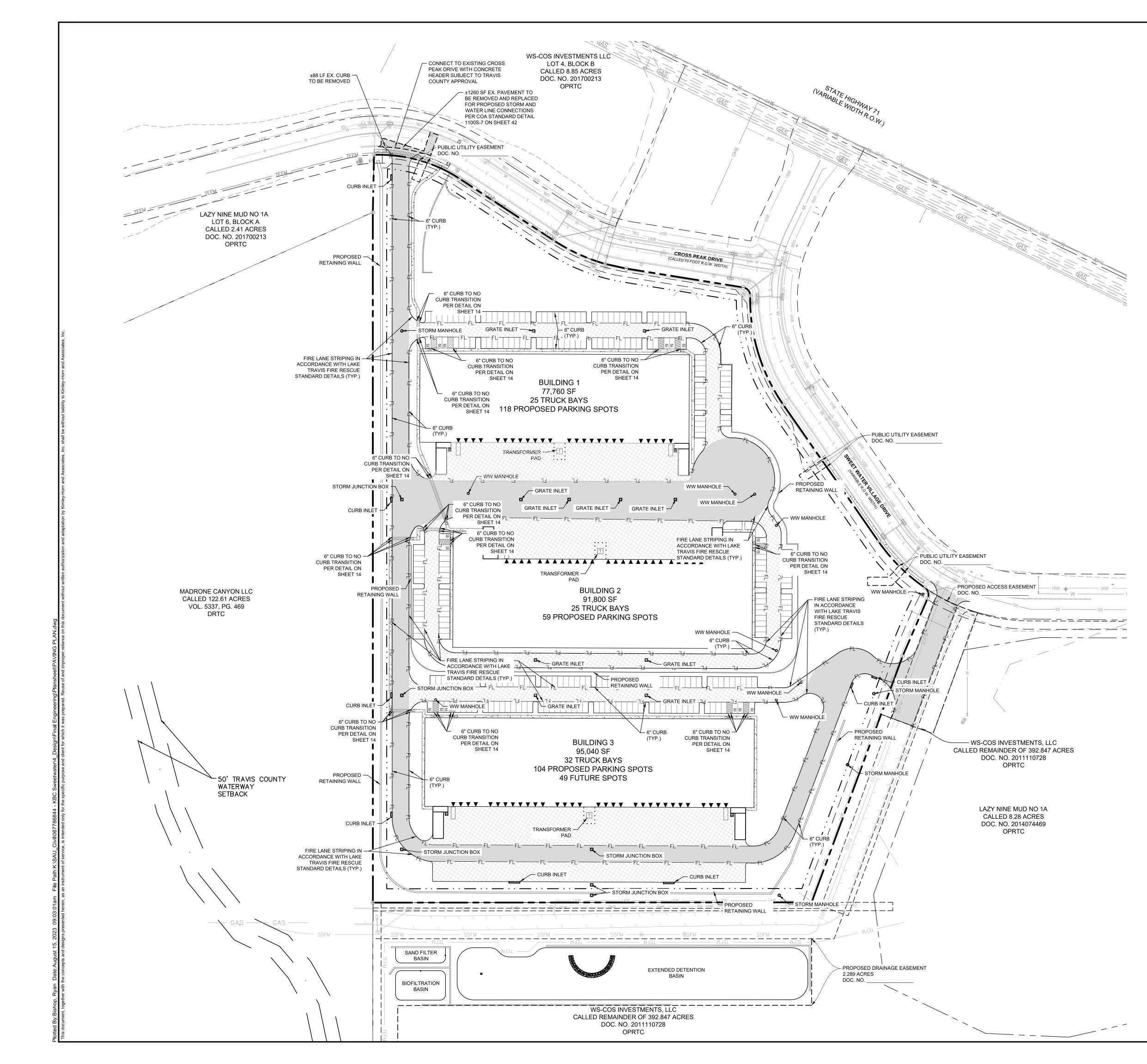




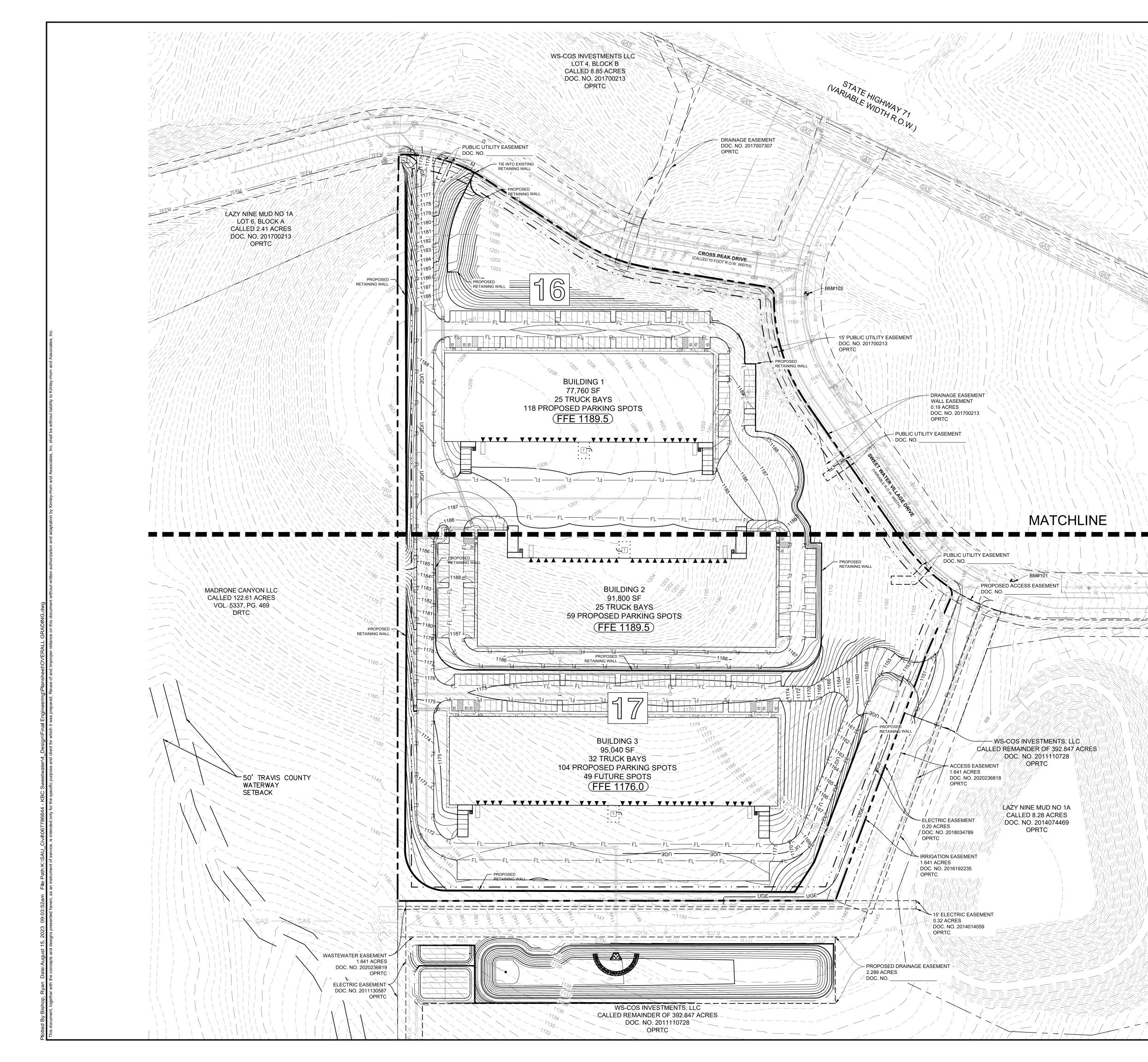


|    | KEYNOT  | E LEGEND     |  |
|----|---|--------------|--|
| )  | ACCESSIBLE CURB RAMP  | (13)         | DO NOT ENTER SIGN & PAVEMENT<br>MARKING  |
|    | CONCRETE WHEEL STOP (REFER TO<br>ARCHITECTURAL PLANS FOR DETAILS)<br>(TYP.) | (14)         | CONCRETE SIDEWALK  |
| )  | VEHICLE BARRIER FENCE (REFER TO<br>ARCHITECTURAL PLANS FOR DETAILS)         | (15)         | 4" WHITE STRIPE TRAFFIC PAINT (TYP.)   |
|    | SPEED BUMP (REFER TO ARCHITECTURAL PLANS FOR DETAILS)                       | (16)         | RETAINING WALL (DESIGN BUILD BY CONTRACTOR) (SEE NOTE 8)   |
| )  | PEDESTRIAN BARRIER FENCE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)         | 17           | ONE WAY SIGN   |
| )  | ACCESSIBLE PARKING STALL (TYP.)   | (18)         | 4" DOUBLE YELLOW STRIPE (TYP.)   |
| )  | STRIPED PEDESTRIAN ACCESS   | (19)         | STRIPED TRAFFIC SEPARATION WITH<br>JERSEY BARRIERS (REFER TO<br>ARCHITECTURAL PLANS FOR DETAILS) |
| )  | YARD PERIMETER FENCE  | 20           | SPEED LIMIT SIGN   |
| )  | BOLLARDS  | $\bigotimes$ | PARKING COUNT - ASSOCIATE (10'X20')  |
|    | 2' WHITE STOP BAR & STOP SIGN   | $\bigwedge$  | PARKING COUNT - VAN PARKING (11'X27')  |
| 1) | HANDICAP SIGN (TYP.)  | XX           | PARKING COUNT - TRAILER TRUCK  |
| 2) | DIRECTIONAL ARROW (TYP.) (REFER TO<br>TO SITE SIGNAGE AND STRIPING PLAN)    | ▼            | TRUCK BAY  |





|  | SCALE IN FEET  | DATE BY  |
|--|--|--|
| LEGE         PROPOSED FIRELANE         PROPERTY LINE         SAWCUT LINE         SAWCUT LINE         PROPOSED CURB         STANDARD-DUTY PAVEMENT         MEDIUM DUTY PAVEMENT         HEAVY DUTY PAVEMENT         PROPOSED PAVEMENT TO MATCH EXISTING<br>CROSS PEAK DRIVE PAVEMENT SECTION.<br>REFER TO SWEETWATER CROSSING - PHASE<br>1 CONSTRUCTION PLANS, DATED OCTOBER<br>2016 BY MALONE WHEELER INC.         PROPOSED SIDEWALK   | FL   | Signation  |
| PREPARATION NOTES. 3. REFERENCE DIMENSION CONTROL PLA<br>RADII AND LAYOUT INFORMATION. 4. REFERENCE IRRIGATION AND MEP PLA<br>UNLESS OTHERWISE NOTED ON THIS S 5. ISOLATION JOINT SHALL BE USED WHE<br>STRUCTURAL ELEMENT SUBJECT TO D<br>E.G., LIGHT POLES, RETAINING WALLS,<br>ENTRYWAY PIERS, BUILDING WALLS, M<br>BOXES, ETC. 6. EXISTING MANHOLE TOPS, VALVE BOX<br>REQUIRED TO MATCH PROPOSED GRA<br>BE PERFORMED UPON COMPLETION O<br>SMOOTH TRANSITION. 7. REFERENCE SHEETS 13 & 14 FOR PAVE<br>REFER TO GEOTECHNICAL REPORT FOR<br>SECTIONS AND SUBGRADE PREPARATIO | FOR ADDITIONAL PAVING, JOINT, AND SOIL<br>ANS ON SHEETS 9 THROUGH 11 FOR CURB<br>ANS FOR CONDUIT SIZES AND LOCATIONS<br>SHEET.<br>REVER THE PAVEMENT WILL ABUT A<br>DIFFERENT MAGNITUDE OF MOVEMENT,<br>EXISTING PAVEMENT, STAIRWAYS,<br>MANHOLES, GRATE INLETS, JUNCTION<br>RES, ETC. ARE TO BE ADJUSTED AS<br>ADES. IF NECESSARY, ADJUSTMENTS SHALL<br>OF PAVING AND FINE GRADING TO ENSURE A<br>EMENT SECTION DETAILS.<br>CH NOTE | KHA PROJECT<br>667786844<br>067786844<br>DATE<br>DATE<br>DATE<br>DATE<br>02/23/2023<br>CELE: AS SHOWN<br>DESIGNED BY: RSB<br>DESIGNED BY: RS |
|  |  | OVERALL PAVING<br>PLAN   |
| Know what's below.   | SENCHMARKS<br>AIL WITH WASHER SET AT THE<br>THWEST CORNER OF CURB INLET ON<br>TH SIDE OF SWEETWATER VILLAGE<br>/E, ±690' EAST OF CROSS PEAK DRIVE<br>TERLINE.<br>5.93' (NAVD '88)<br>WAIL WITH WASHER SET AT THE<br>THEAST CORNER OF CURB INLET ON THE<br>TSIDE OF SWEETWATER VILLAGE DRIVE,<br>SOUTH OF CROSS PEAK DRIVE<br>TERLINE.  | SWEETWATER CROSSING<br>SWEETWATER CROSSING<br>LAST MILE FACILTY<br>CITY OF BEE CAVE<br>TRAVIS COUNTY, TEXAS<br>TRAVIS COUNTY, TEXAS  |





# BENCHMARKS

PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE CENTERLINE.

SW

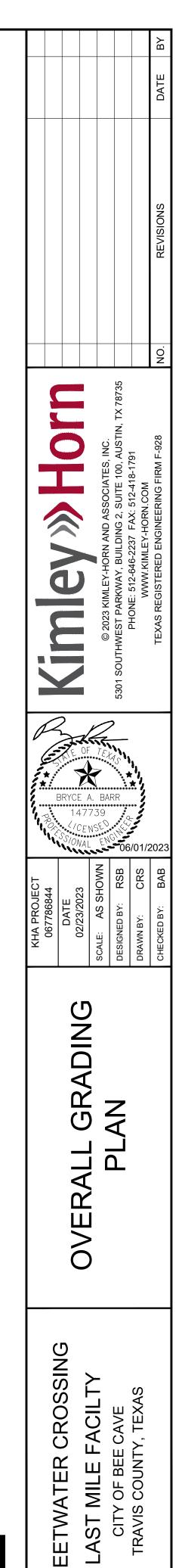
SHEET NUMBER

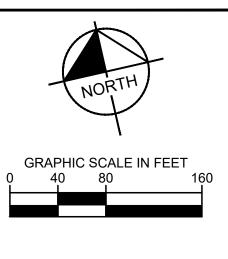
15 OF 44

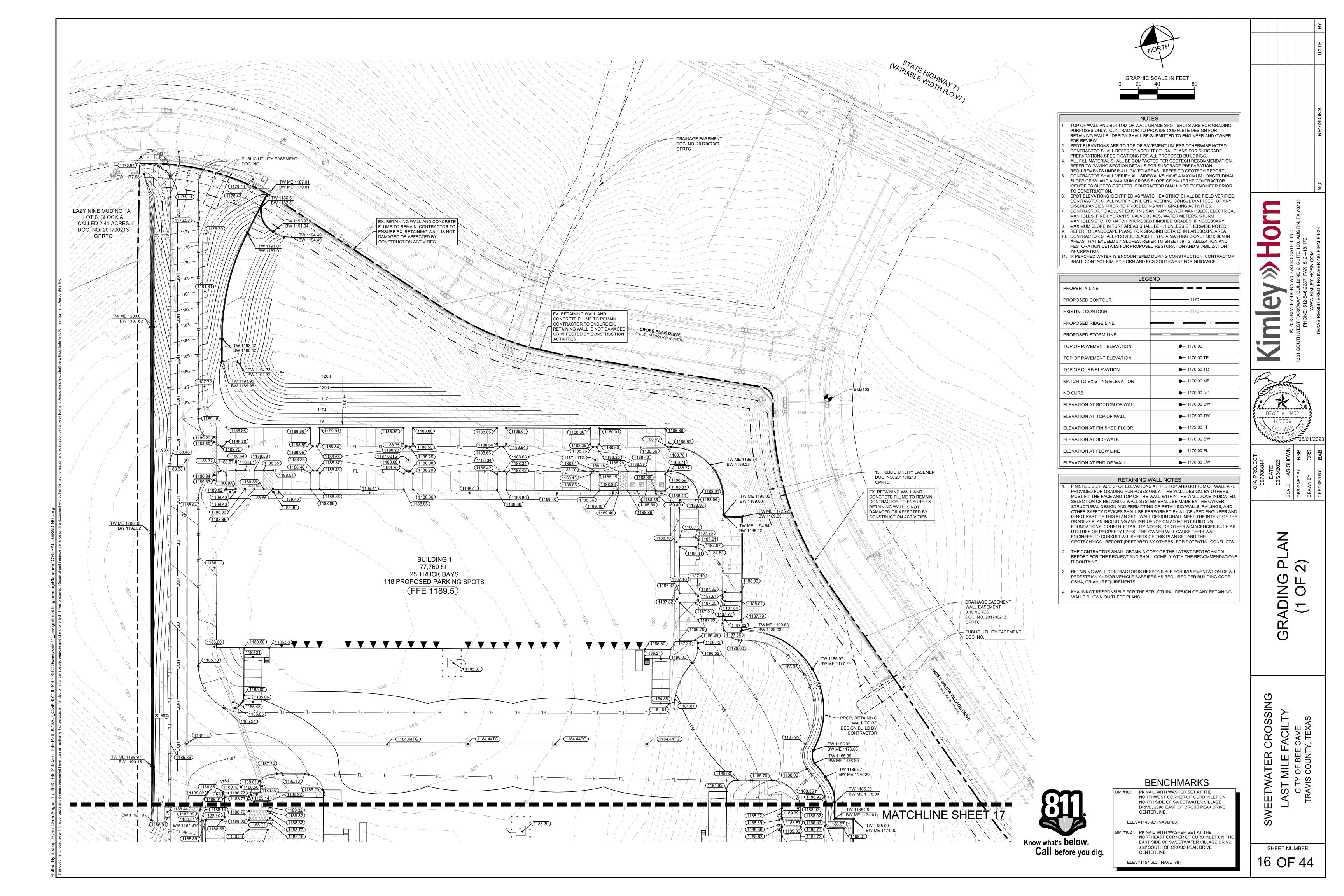
ELEV=1145.93' (NAVD '88)

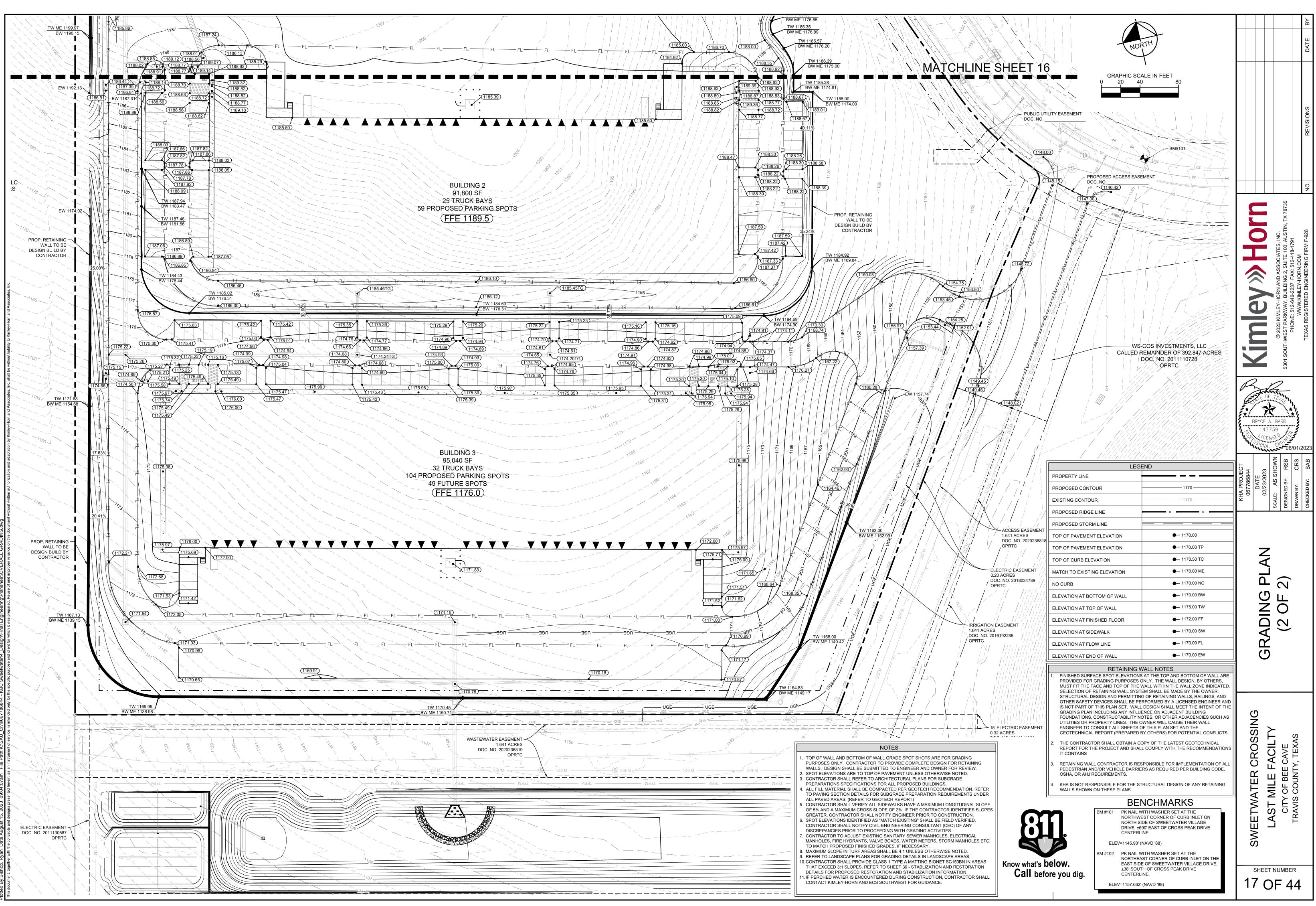
BM #102 PK NAIL WITH WASHER SET AT THE NORTHEAST CORNER OF CURB INLET ON THE EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

| BM #101 | PK NAI    |
|---------|-----------|
|         | NORTH     |
|         | NORTH     |
|         | DRIVE,    |
|         | CENTE     |
|         |           |
| EL EL   | EV=1145.9 |

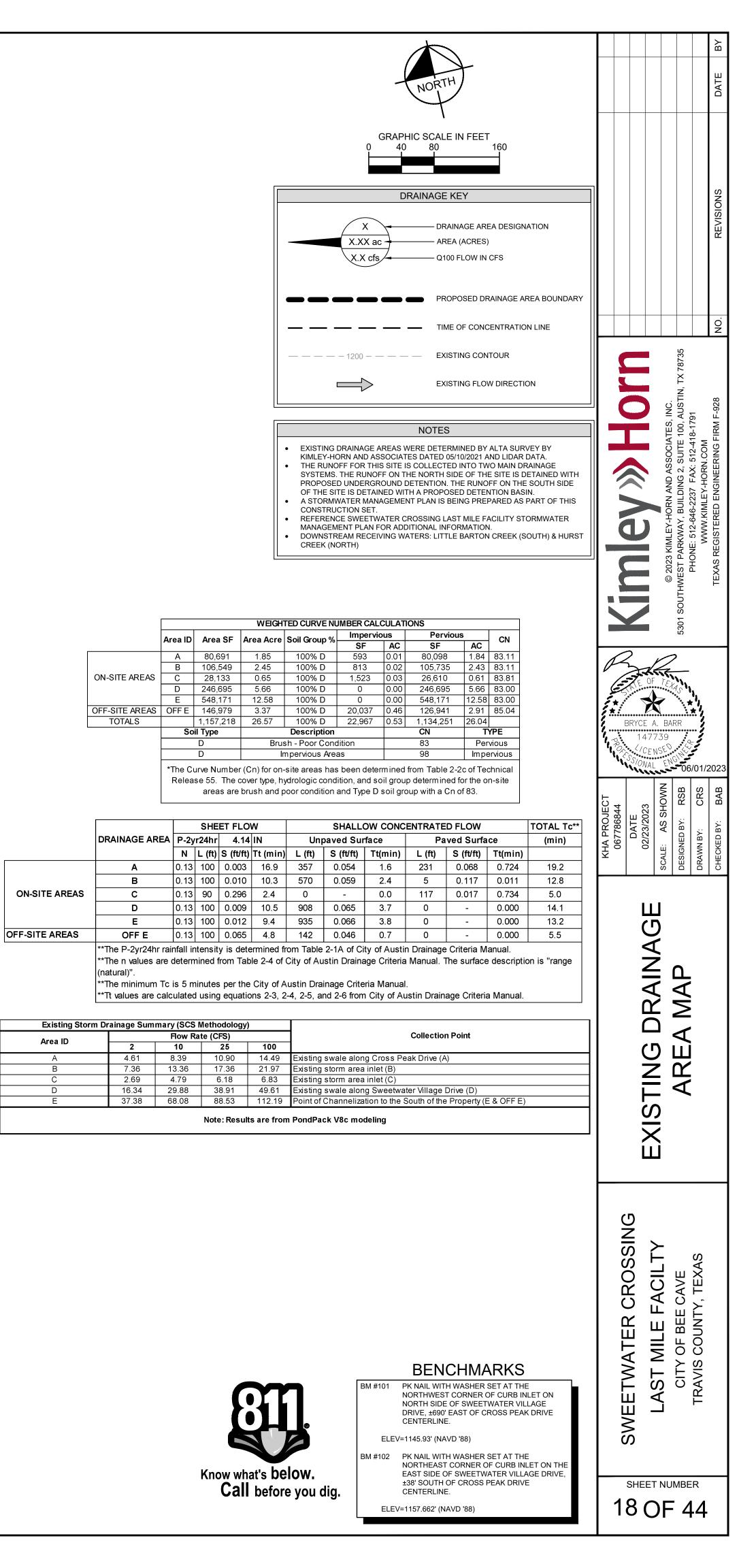


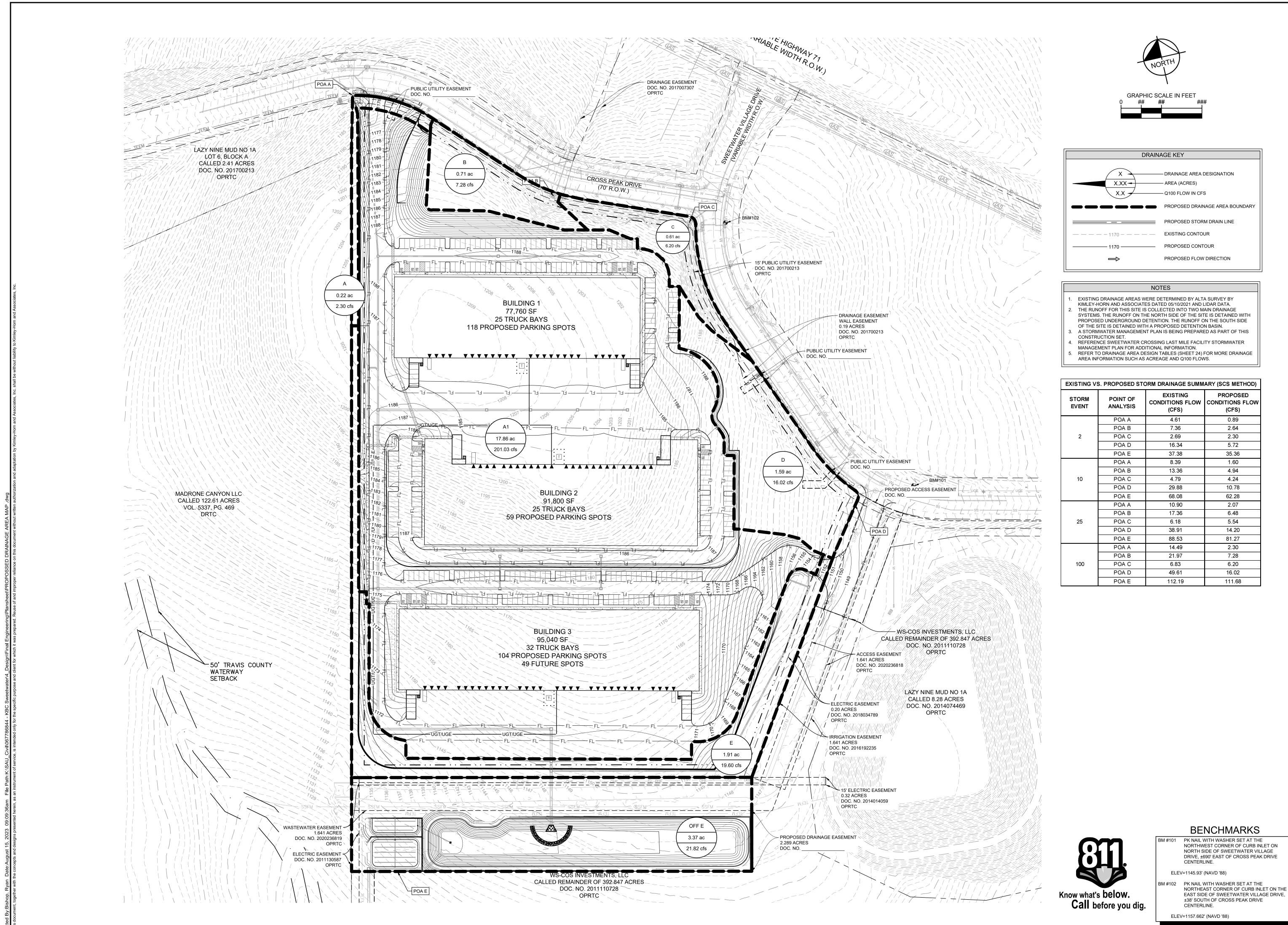


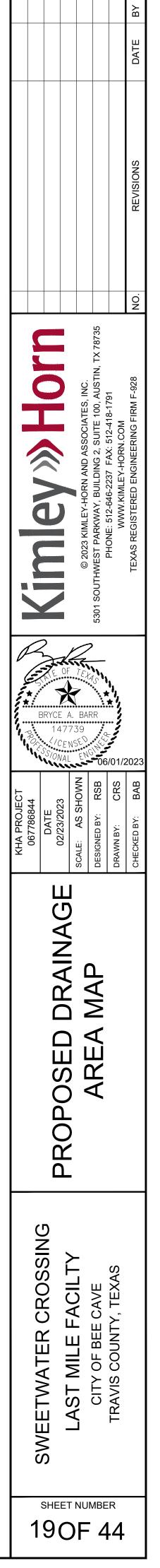


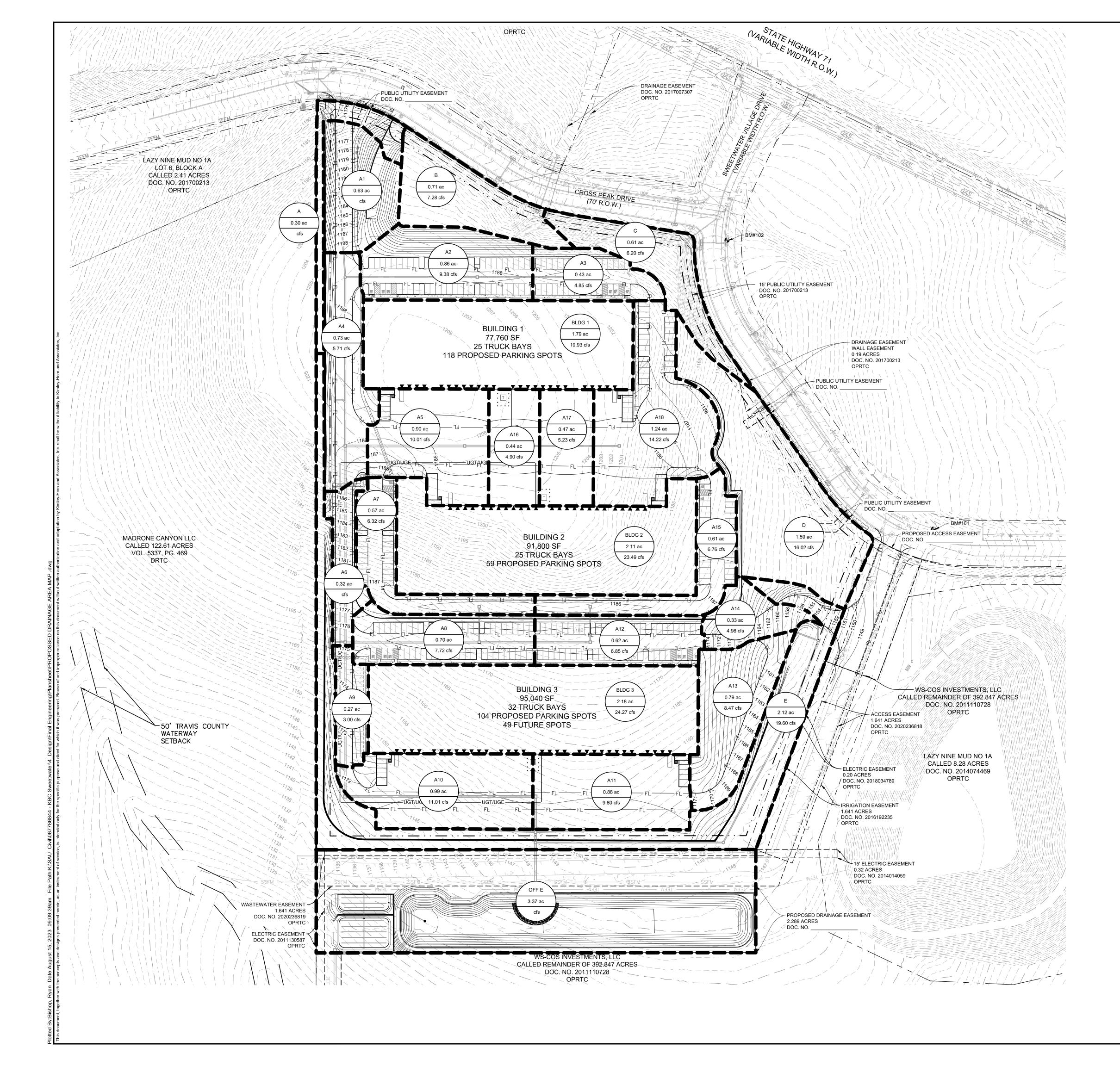


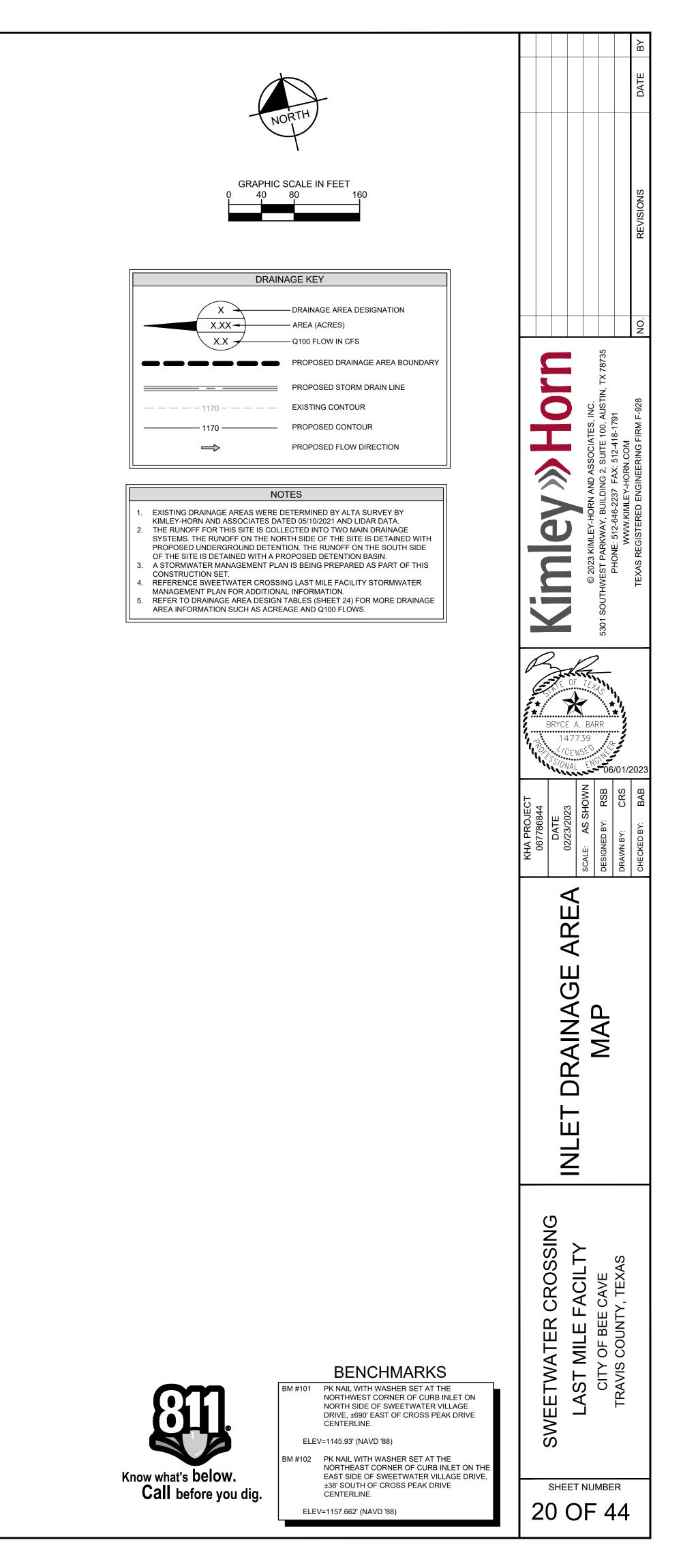












| Area ID | Area SF   | Area Acre | Soil Group %                      | Impervi  | ous   | Perviou | ls    | CN    |
|---------|-----------|-----------|-----------------------------------|----------|-------|---------|-------|-------|
|         | Alea SF   | Alea Acre | Soli Group %                      | SF       | AC    | SF      | AC    |       |
| A1      | 27,437    | 0.63      | 100% D                            | 9,785    | 0.22  | 17,651  | 0.41  | 86.4  |
| A2      | 37,554    | 0.86      | 100% D                            | 21,113   | 0.48  | 16,442  | 0.38  | 90.1  |
| A3      | 18,946    | 0.43      | 100% D                            | 14,269   | 0.33  | 4,677   | 0.11  | 93.5  |
| A4      | 31,946    | 0.73      | 100% D                            | 19,550   | 0.45  | 12,396  | 0.28  | 91.0  |
| A5      | 39,123    | 0.90      | 100% D                            | 37,922   | 0.87  | 1,201   | 0.03  | 97.4  |
| A6      | 14,065    | 0.32      | 100% D                            | 10,613   | 0.24  | 3,453   | 0.08  | 93.5  |
| A7      | 24,655    | 0.57      | 100% D                            | 21,461   | 0.49  | 3,193   | 0.07  | 95.6  |
| A8      | 30,433    | 0.70      | 100% D                            | 22,180   | 0.51  | 8,253   | 0.19  | 93.1  |
| A9      | 11,755    | 0.27      | 100% D                            | 11,105   | 0.25  | 651     | 0.01  | 97.0  |
| A10     | 43,130    | 0.99      | 100% D                            | 41,357   | 0.95  | 1,773   | 0.04  | 97.2  |
| A11     | 38,362    | 0.88      | 100% D                            | 38,362   | 0.88  | 0       | 0.00  | 98.0  |
| A12     | 27,220    | 0.62      | 100% D                            | 21,002   | 0.48  | 6,218   | 0.14  | 93.8  |
| A13     | 34,322    | 0.79      | 100% D                            | 12,895   | 0.30  | 21,427  | 0.49  | 86.7  |
| A14     | 14,484    | 0.33      | 100% D                            | 7,181    | 0.16  | 7,303   | 0.17  | 88.9  |
| A15     | 26,493    | 0.61      | 100% D                            | 22,570   | 0.52  | 3,923   | 0.09  | 95.3  |
| A16     | 19,227    | 0.44      | 100% D                            | 19,227   | 0.44  | 0       | 0.00  | 98.0  |
| A17     | 20,380    | 0.47      | 100% D                            | 20,380   | 0.47  | 0       | 0.00  | 98.0  |
| A18     | 53,986    | 1.24      | 100% D                            | 50,314   | 1.16  | 3,671   | 0.08  | 96.7  |
| OFF E   | 146,979   | 3.37      | 100% D                            | 22,241   | 0.51  | 124,738 | 2.86  | 82.7  |
| А       | 12,990    | 0.30      | 100% D                            | 1,721    | 0.04  | 11,269  | 0.26  | 82.3  |
| В       | 30,896    | 0.71      | 100% D                            | 1,222    | 0.03  | 29,674  | 0.68  | 80.7  |
| С       | 26,637    | 0.61      | 100% D                            | 2,183    | 0.05  | 24,454  | 0.56  | 81.4  |
| D       | 69,298    | 1.59      | 100% D                            | 477      | 0.01  | 68,821  | 1.58  | 80.1  |
| E       | 92,299    | 2.12      | 100% D                            | 6,833    | 0.16  | 85,466  | 1.96  | 81.3  |
| 3LDG 1  | 77,760    | 1.79      | 100% D                            | 77,760   | 1.79  | 0       | 0.00  | 98.0  |
| 3LDG 2  | 91,800    | 2.11      | 100% D                            | 91,800   | 2.11  | 0       | 0.00  | 98.0  |
| 3LDG 3  | 95,040    | 2.18      | 100% D                            | 95,040   | 2.18  | 0       | 0.00  | 98.0  |
|         | 1,157,218 | 26.57     | 100% D                            | 700,563  | 16.08 | 456,655 | 10.48 |       |
| Sc      | oil Type  |           | Description                       |          |       | CN      | TY    | ΈE    |
|         | D         | Open S    | pace (Good Co                     | ndition) |       | 80      | Perv  | ious  |
|         | D         | I         | mpervious Area                    | S        |       | 98      | Impe  | rviou |
|         |           | . ,       | en determined<br>condition, and s |          |       |         |       |       |

|                      | · · · · · · · · · · · · · · · · · · · |                           |                |                 |           | Curb Inlets                    | in Sump Calcul                    | ation Summ          | nary: 100 y    | ear   |  |  |                    |        |                      |
|----------------------|---------------------------------------|---------------------------|----------------|-----------------|-----------|--------------------------------|-----------------------------------|---------------------|----------------|---|--|--|--------------------|--------|----------------------|
| Drainage<br>Area No. | Inlet No.                             | Q <sub>100</sub><br>(cfs) | Qpass<br>(cfs) | Qtotal<br>(cfs) | W<br>(ft) | Inlet<br>Depression, a<br>(ft) | Curb opening<br>height, h<br>(ft) | Reduction<br>Factor | Length<br>(ft) | d <sub>weir</sub><br>Above S <sub>x</sub><br>(ft) | d <sub>orifice</sub><br>above S <sub>x</sub><br>(ft) | Depth of Ponding<br>over S <sub>x</sub> , d (ft) | S <sub>x</sub> (%) | Z      | Ponded<br>Width (ft) |
| A1                   | I-A1                                  | 7.47                      | 0.00           | 7.47            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.40  | 0.00   | 0.31   | 5.21%              | 19.19  | 5.93                 |
| A4                   | I-A4                                  | 6.66                      | 0.00           | 6.66            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.37  | 0.00   | 0.31   | 0.68%              | 147.06 | 45.47                |
| A6                   | I-A6                                  | 5.71                      | 0.00           | 5.71            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.34  | 0.00   | 0.31   | 0.24%              | 416.67 | 128.82               |
| A9                   | I-A9                                  | 3.00                      | 0.00           | 3.00            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.22  | 0.00   | 0.22   | 1.00%              | 100.00 | 21.93                |
| A10                  | I-A10                                 | 11.01                     | 0.00           | 11.01           | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.52  | 0.00   | 0.31   | 1.55%              | 64.52  | 19.95                |
| A11                  | I-A11                                 | 9.80                      | 0.00           | 9.80            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.48  | 0.00   | 0.31   | 1.55%              | 64.52  | 19.95                |
| A13                  | I-A13                                 | 8.47                      | 0.00           | 8.47            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.44  | 0.00   | 0.31   | 9.47%              | 10.56  | 3.26                 |
| A14                  | I-A14                                 | 4.98                      | 0.00           | 4.98            | 1.50      | 0.42                           | 0.52                              | 1.00                | 10.00          | 0.31  | 0.00   | 0.31   | 3.32%              | 30.12  | 9.26                 |

|               |       | SHEE        | T FLOW    | /        |        | SHALL     | OW CONC | ENTRATE | D FLOW    |         | TOTAL Tc* |
|---------------|-------|-------------|-----------|----------|--------|-----------|---------|---------|-----------|---------|-----------|
| DRAINAGE AREA | P-2y  | P-2yr24hr 4 |           | IN       | Un     | paved Sur | face    | Ра      | ved Surfa | се      | (min)     |
|               | N     | L (ft)      | S (ft/ft) | Tt (min) | L (ft) | S (ft/ft) | Tt(min) | L       | S         | Tt(min) |           |
| A1            | 0.015 | 100         | 0.042     | 1.0      | -      | -         | 0.0     | 80      | 0.044     | 0.3     | 5.0       |
| A2            | 0.015 | 100         | 0.012     | 1.7      | -      | -         | 0.0     | 193     | 0.003     | 3.1     | 5.0       |
| A3            | 0.015 | 99          | 0.012     | 1.7      | -      | -         | 0.0     | 0       | 0.000     | 0.0     | 5.0       |
| A4            | 0.015 | 100         | 0.013     | 1.6      | -      | -         | 0.0     | 160     | 0.007     | 1.6     | 5.0       |
| A5            | 0.015 | 100         | 0.001     | 4.5      | -      | -         | 0.0     | 85      | 0.011     | 0.7     | 5.2       |
| A6            | 0.015 | 100         | 0.011     | 1.7      | -      | -         | 0.0     | 277     | 0.013     | 2.0     | 5.0       |
| A7            | 0.015 | 100         | 0.018     | 1.4      | -      | -         | 0.0     | 113     | 0.004     | 1.4     | 5.0       |
| A8            | 0.015 | 100         | 0.001     | 4.5      | -      | -         | 0.0     | 91      | 0.009     | 0.8     | 5.3       |
| A9            | 0.015 | 100         | 0.009     | 1.9      | -      | -         | 0.0     | 107     | 0.009     | 0.9     | 5.0       |
| A10           | 0.015 | 100         | 0.014     | 1.6      | -      | -         | 0.0     | 74      | 0.012     | 0.6     | 5.0       |
| A11           | 0.015 | 100         | 0.006     | 2.2      | -      | -         | 0.0     | 322     | 0.014     | 2.3     | 5.0       |
| A12           | 0.015 | 100         | 0.007     | 2.1      | -      | -         | 0.0     | 11      | 0.009     | 0.1     | 5.0       |
| A13           | 0.015 | 100         | 0.055     | 0.9      | -      | -         | 0.0     | 138     | 0.042     | 0.6     | 5.0       |
| A14           | 0.015 | 100         | 0.062     | 0.9      | -      | -         | 0.0     | 175     | 0.058     | 0.6     | 5.0       |
| A15           | 0.015 | 100         | 0.013     | 1.6      | -      | -         | 0.0     | 165     | 0.015     | 1.1     | 5.0       |
| A16           | 0.015 | 100         | 0.013     | 1.6      | -      | -         | 0.0     | 12      | 0.017     | 0.1     | 5.0       |
| A17           | 0.015 | 100         | 0.013     | 1.6      | -      | -         | 0.0     | 17      | 0.012     | 0.1     | 5.0       |
| A18           | 0.015 | 100         | 0.013     | 1.6      | -      | -         | 0.0     | 191     | 0.018     | 1.2     | 5.0       |
| OFF E         | 0.015 | 100         | 0.065     | 0.9      | 142    | 0.073     | 0.0     | -       | -         | 0.0     | 5.0       |
| Α             | 0.015 | 100         | 0.006     | 2.2      | 356    | 0.087     | 1.2     | -       | -         | 0.0     | 5.0       |
| В             | 0.015 | 84          | 0.211     | 0.5      | -      | -         | 0.0     | -       | -         | 0.0     | 5.0       |
| С             | 0.015 | 100         | 0.192     | 0.6      | 5      | 0.280     | 0.0     | -       | -         | 0.0     | 5.0       |
| D             | 0.015 | 100         | 0.121     | 0.7      | 406    | 0.072     | 1.6     | -       | -         | 0.0     | 5.0       |
| E             | 0.015 | 100         | 0.023     | 1.3      | 1103   | 0.050     | 5.1     | -       | -         | 0.0     | 6.4       |
| BLDG 1        | 0.015 |             | 0.001     | 0.0      | -      | -         | 0.0     | -       | -         | 0.0     | 5.0       |
| BLDG 2        | 0.015 |             | 0.001     | 0.0      | -      | -         | 0.0     | -       | -         | 0.0     | 5.0       |
| BLDG 3        | 0.015 |             | 0.001     | 0.0      | -      | -         | 0.0     | -       | -         | 0.0     | 5.0       |

\*\*The P-2yr24hr rainfall intensity is determined from Table 2-1A of City of Austin Drainage Criteria Manual. \*\*The n values are determined from Table 2-4 of City of Austin Drainage Criteria Manual. The surface description is "concrete

(rough or smoothed finish)" for paved surfaces, or "dense grasses" for unpaved surfaces.

\*\*The minimum Tc is 5 minutes per the City of Austin Drainage Criteria Manual. \*\*Tt values are calculated using equations 2-3, 2-4, 2-5, and 2-6 from City of Austin Drainage Criteria Manual.

|                      | Grate Inlets in Sump Calculation Summary: 100 year |                           |                |                 |           |           |                  |                           |   |                                |                        |                              |                             |
|----------------------|--|---------------------------|----------------|-----------------|-----------|-----------|------------------|---------------------------|---|--------------------------------|------------------------|------------------------------|-----------------------------|
| Drainage<br>Area No. | Inlet No.  | Q <sub>100</sub><br>(cfs) | Qpass<br>(cfs) | Qtotal<br>(cfs) | W<br>(ft) | L<br>(ft) | Open Area<br>(%) | Percent<br>Clogged<br>(%) | Effective<br>Area<br>(ft <sup>2</sup> ) | Effective<br>Perimeter<br>(ft) | d <sub>weir</sub> (ft) | d <sub>orifice</sub><br>(ft) | Depth of Ponding,<br>d (ft) |
| A2                   | I-A2   | 9.38                      | 0.00           | 9.38            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.43                   | 0.05                         | 0.43                        |
| A3                   | I-A3   | 4.85                      | 0.00           | 4.85            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.28                   | 0.01                         | 0.28                        |
| A5                   | I-A5   | 10.01                     | 0.00           | 10.01           | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.45                   | 0.06                         | 0.45                        |
| A7                   | I-A7   | 6.32                      | 0.00           | 6.32            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.33                   | 0.02                         | 0.33                        |
| A8                   | I-A8   | 7.72                      | 0.00           | 7.72            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.38                   | 0.03                         | 0.38                        |
| A12                  | I-A12  | 6.85                      | 0.00           | 6.85            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.35                   | 0.03                         | 0.35                        |
| A15                  | I-A15  | 6.76                      | 0.00           | 6.76            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.35                   | 0.03                         | 0.35                        |
| A16                  | I-A16  | 4.90                      | 0.00           | 4.90            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.28                   | 0.01                         | 0.28                        |
| A17                  | I-A17  | 5.23                      | 0.00           | 5.23            | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.29                   | 0.02                         | 0.29                        |
| A18                  | I-A18  | 14.22                     | 0.00           | 14.22           | 4.00      | 4.00      | 0.75             | 0.35                      | 7.80                                    | 10.40                          | 0.57                   | 0.11                         | 0.57                        |

| roposed Storn | Drainage Su |        |          | ology) |
|---------------|-------------|--------|----------|--------|
| Area ID       |             |        | te (CFS) |        |
|               | 2           | 10     | 25       | 100    |
| A1            | 3.11        | 5.35   | 6.83     | 7.47   |
| A2            | 4.26        | 6.95   | 8.71     | 9.38   |
| A3            | 2.34        | 3.68   | 4.56     | 4.85   |
| A4            | 3.05        | 4.96   | 6.20     | 6.66   |
| A5            | 5.07        | 7.72   | 9.47     | 10.01  |
| A6            | 2.69        | 4.29   | 5.34     | 5.71   |
| A7            | 3.15        | 4.84   | 5.97     | 6.32   |
| A8            | 3.70        | 5.84   | 7.24     | 7.72   |
| A9            | 1.52        | 2.31   | 2.84     | 3.00   |
| A10           | 5.57        | 8.48   | 10.41    | 11.01  |
| A11           | 4.98        | 7.56   | 9.27     | 9.80   |
| A12           | 3.33        | 5.20   | 6.44     | 6.85   |
| A13           | 3.58        | 6.10   | 7.76     | 8.47   |
| A14           | 2.18        | 3.64   | 4.59     | 4.98   |
| A15           | 3.35        | 5.17   | 6.38     | 6.76   |
| A16           | 2.49        | 3.78   | 4.64     | 4.90   |
| A17           | 2.66        | 4.04   | 4.95     | 5.23   |
| A18           | 7.13        | 10.92  | 13.43    | 14.22  |
| OFF E         | 7.76        | 14.66  | 19.32    | 21.82  |
| Α             | 0.89        | 1.60   | 2.07     | 2.30   |
| В             | 2.64        | 4.94   | 6.48     | 7.28   |
| С             | 2.30        | 4.24   | 5.54     | 6.20   |
| D             | 5.72        | 10.78  | 14.20    | 16.02  |
| E             | 7.11        | 13.28  | 17.43    | 19.60  |
| BLDG 1        | 10.14       | 15.38  | 18.86    | 19.93  |
| BLDG 2        | 11.95       | 18.12  | 22.23    | 23.49  |
| BLDG 3        | 12.35       | 18.73  | 22.97    | 24.27  |
| POND IN       | 106.36      | 167.71 | 208.39   | 222.85 |
| POND OUT      | 32.74       | 57.56  | 74.56    | 102.48 |
| POA A         | 0.89        | 1.60   | 2.07     | 2.30   |
| POA B         | 2.64        | 4.94   | 6.48     | 7.28   |
| POA C         | 2.30        | 4.24   | 5.54     | 6.20   |
| POA D         | 5.72        | 10.78  | 14.20    | 16.02  |
| POAE          | 35.36       | 62.28  | 81.27    | 111.68 |



# BENCHMARKS

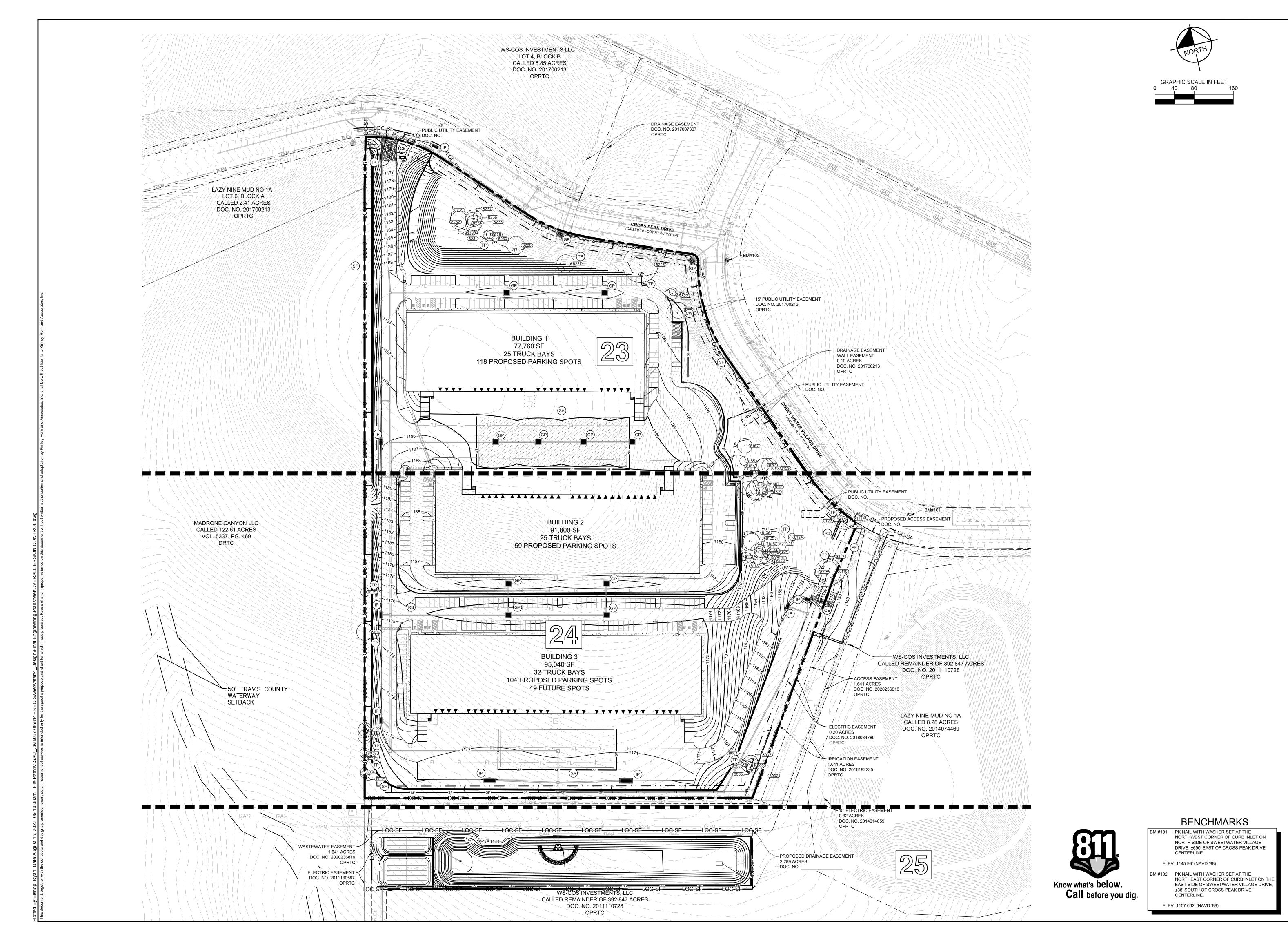
 

 BM #101
 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE CENTERLINE.

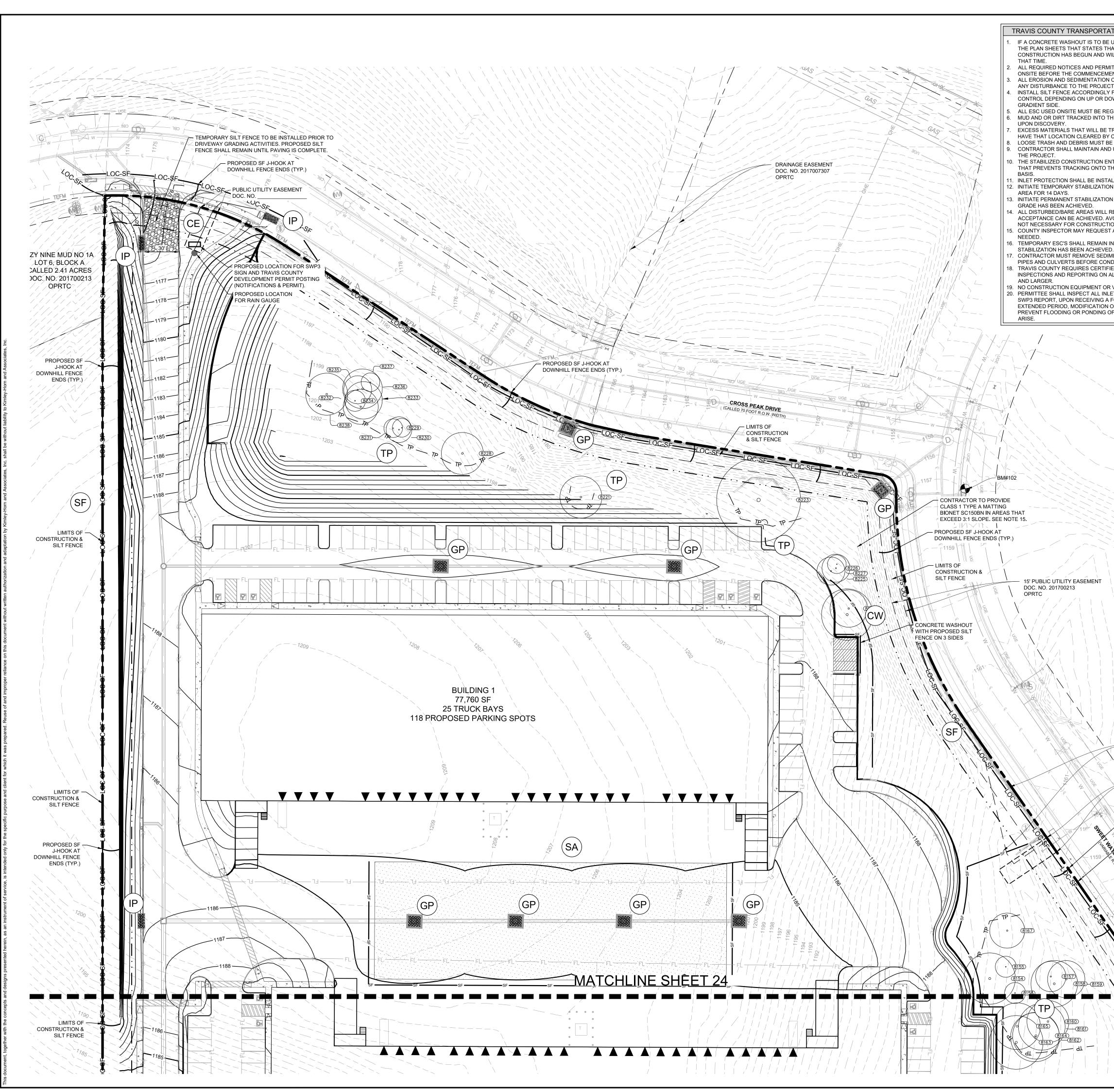
ELEV=1145.93' (NAVD '88)

BM #102 PK NAIL WITH WASHER SET AT THE NORTHEAST CORNER OF CURB INLET ON THE EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

|  |  | DATE BY                                 |
|--|--|---|
|  |  | REVISIONS                               |
|  |  | NO.                                     |
| Kimley»Horn                                    | © 2023 KIMLEY-HORN AND ASSOCIATES, INC.<br>5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735<br>PHONE: 512-646-2237 FAX: 512-418-1791<br>WWW KIMLEY-HORN.COM | TEXAS REGISTERED ENGINEERING FIRM F-928 |
| BRYCE A.<br>BRYCE A.<br>BRYCE A.<br>CEN        | 7.E.H.A.S<br>BARR<br>39<br>SE O. M.<br>ENGINE<br>ENGINE<br>06/01/  | 2023                                    |
| KHA PROJECT<br>067786844<br>DATE<br>02/23/2023 | SCALE: AS SHOWN<br>DESIGNED BY: RSB<br>DRAWN BY: CRS   | снескер ву: ВАВ                         |
| PROPOSED DRAINAGE                              | AREA DESIGN TABLES   |   |
| SWEETWATER CROSSING                            | CITY OF BEE CAVE<br>TRAVIS COUNTY, TEXAS   |   |
|  | NUMBER   |   |

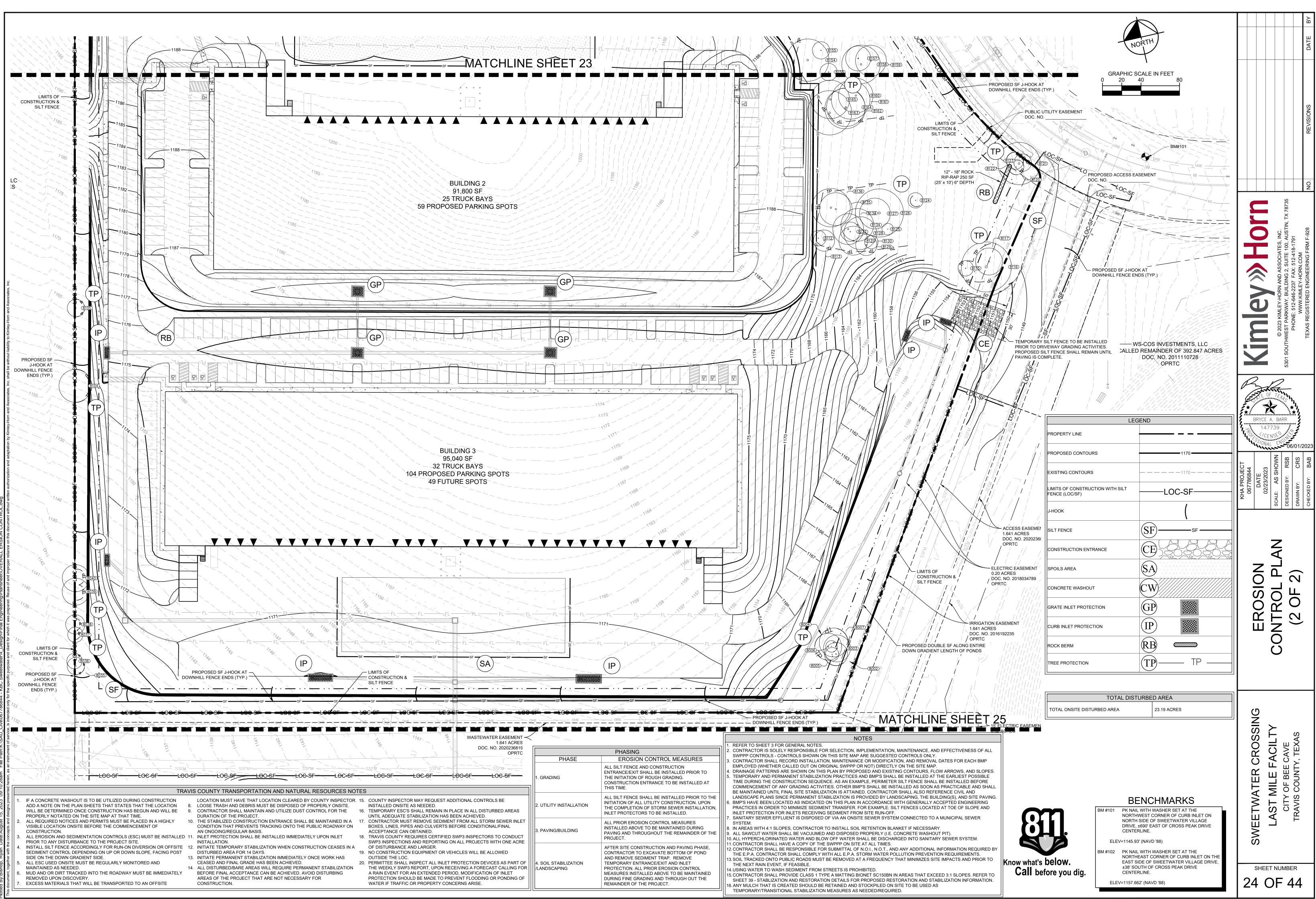


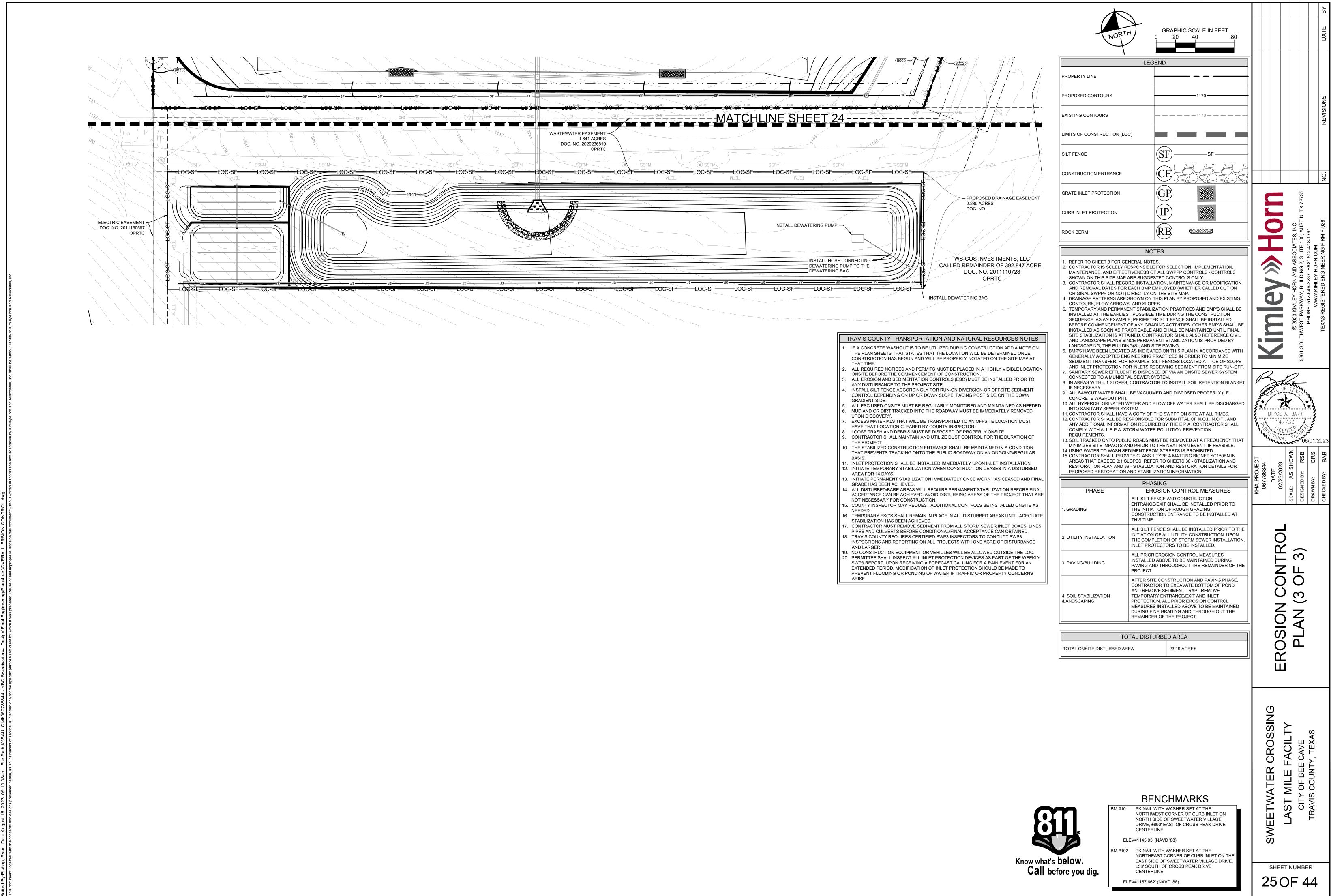
|  |                                 |                                       |  |  | DATE BY                                 |  |  |  |  |
|--|---------------------------------|---------------------------------------|--|--|---|--|--|--|--|
|  |                                 |                                       |  |  | REVISIONS                               |  |  |  |  |
|  |                                 |                                       |  |  | NO.                                     |  |  |  |  |
|  |                                 | 2023 KIMLEY-HORN AND ASSOCIATES, INC. | 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735    | PHONE: 512-646-2237 FAX: 512-416-1791<br>WWW.KIMLEY-HORN.COM | TEXAS REGISTERED ENGINEERING FIRM F-928 |  |  |  |  |
| A the second sec | BRYCE /<br>147<br>2/CE          | A. BAF<br>739<br>NSED<br>EN           | 7,5<br>7,7<br>7,7<br>7,7<br>7,7<br>7,7<br>7,7<br>7,7<br>7,7<br>7,7 | /01/2  | 2023                                    |  |  |  |  |
| KHA PROJECT<br>067786844   | DATE<br>02/23/2023              | SCALE: AS SHOWN                       | DESIGNED BY: RSB   | DRAWN BY: CRS  | СНЕСКЕD ВҮ: ВАВ                         |  |  |  |  |
|  | OVERALL EROSION<br>CONTROL PLAN |                                       |  |  |   |  |  |  |  |
|  |                                 |                                       | CITY OF BEE CAVE   | TRAVIS COUNTY, TEXAS   |   |  |  |  |  |
| 2  | shee<br>220                     |                                       |  | R<br>4   |   |  |  |  |  |



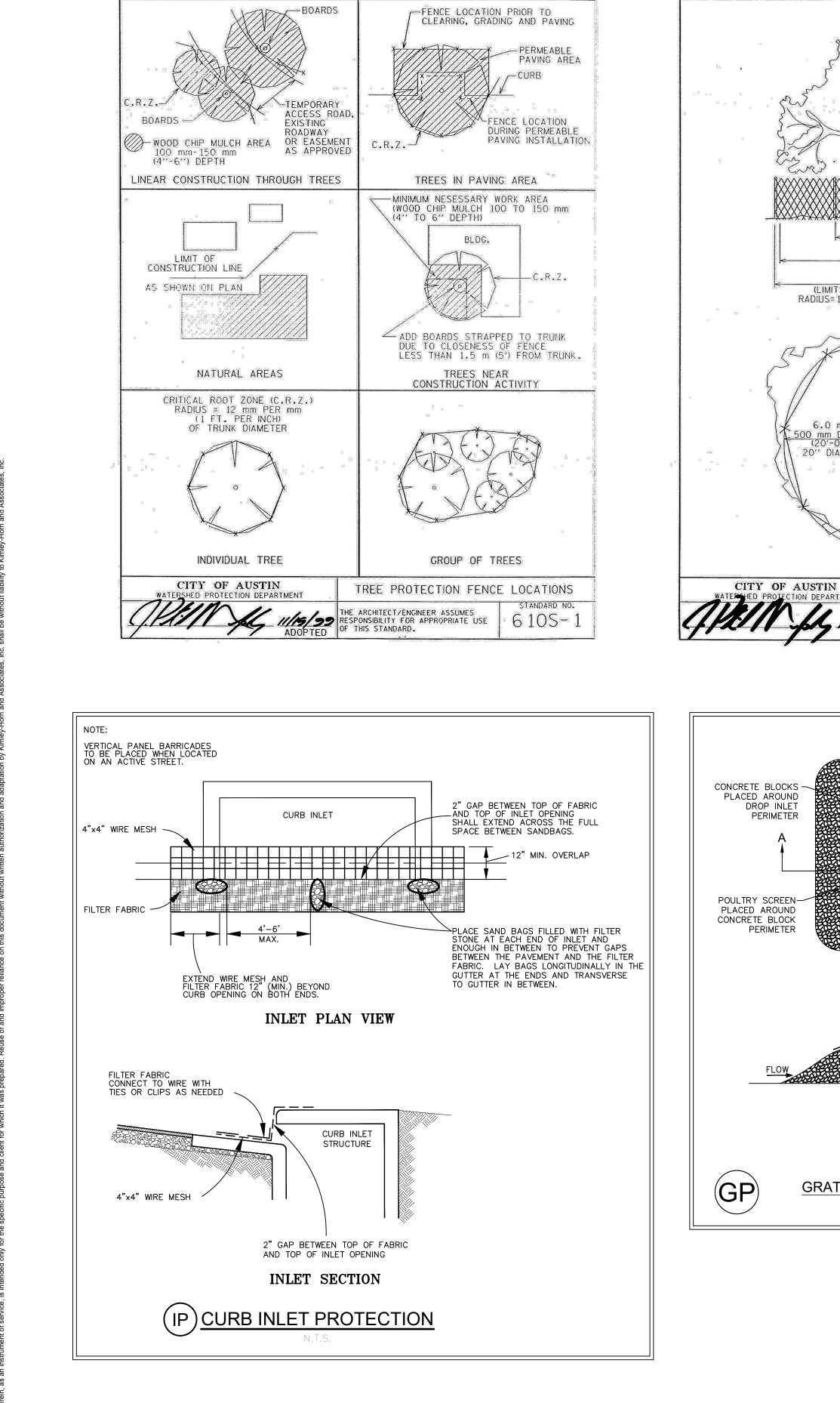
3ishop, Ryan Date:August 15, 2023 09:10:16am File Path:K:\SAU\_Civil\067786844 - KBC Sweetwater\4\_Design\Final Engineering\Plansheet\OVERALL ERSION CONTROL.dwg

| ATION AND NATURAL RESOURCES NOTES<br>E UTILIZED DURING CONSTRUCTION ADD A NOTE ON<br>HAT THE LOCATION WILL BE DETERMINED ONCE   | NORTH   | 0 20   | CSCALE IN FEET  | _  |                            |                              | DATE BY                                       |
|---|---|--|---|----|----------------------------|------------------------------|---|
| WILL BE PROPERLY NOTATED ON THE SITE MAP AT<br>MITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION<br>IENT OF CONSTRUCTION.<br>N CONTROLS (ESC) MUST BE INSTALLED PRIOR TO |   |  |   |    |                            |                              | DA  |
| CT SITE.<br>Y FOR RUN-ON DIVERSION OR OFFSITE SEDIMENT<br>OWN SLOPE, FACING POST SIDE ON THE DOWN   | PROPERTY LINE   | LEGEND   |   |    |                            |                              |   |
| EGULARLY MONITORED AND MAINTAINED AS NEEDED.<br>THE ROADWAY MUST BE IMMEDIATELY REMOVED<br>TRANSPORTED TO AN OFFSITE LOCATION MUST                                      | PROPOSED CONTOURS   |  | 1170-   |    |                            |                              | য   |
| Y COUNTY INSPECTOR.<br>BE DISPOSED OF PROPERLY ONSITE.<br>D UTILIZE DUST CONTROL FOR THE DURATION OF  | EXISTING CONTOURS   |  | — — — 1170 — — — — —  |    |                            |                              | REVISIONS                                     |
| NTRANCE SHALL BE MAINTAINED IN A CONDITION<br>THE PUBLIC ROADWAY ON AN ONGOING/REGULAR<br>ALLED IMMEDIATELY UPON INLET INSTALLATION.                                    | LIMITS OF CONSTRUCTION WI<br>FENCE (LOC/SF)   | TH SILT  | -LOC-SF   |    |                            |                              | L L L L L L L L L L L L L L L L L L L         |
| ON WHEN CONSTRUCTION CEASES IN A DISTURBED<br>ON IMMEDIATELY ONCE WORK HAS CEASED AND FINAL   | Ј-НООК  |  | (   |    |                            |                              |   |
| REQUIRE PERMANENT STABILIZATION BEFORE FINAL<br>VOID DISTURBING AREAS OF THE PROJECT THAT ARE<br>TON.   | SILT FENCE  | (SF)-  | SF  |    |                            |                              | ÖZ  |
| T ADDITIONAL CONTROLS BE INSTALLED ONSITE AS  | CONSTRUCTION ENTRANCE   |  |   |    |                            | 735                          |   |
| MENT FROM ALL STORM SEWER INLET BOXES, LINES,<br>NDITIONAL/FINAL ACCEPTANCE CAN OBTAINED.<br>FIED SWP3 INSPECTORS TO CONDUCT SWP3                                       | SPOILS AREA   | (SA)   |   |    |                            | N, TX 78735                  |   |
| ALL PROJECTS WITH ONE ACRE OF DISTURBANCE<br>R VEHICLES WILL BE ALLOWED OUTSIDE THE LOC.<br>LET PROTECTION DEVICES AS PART OF THE WEEKLY                                | CONCRETE WASHOUT  | CW   |   |    | 0                          | ATES, INC.<br>100, AUSTIN, 1 | 18-1791<br>FIRM F-928                         |
| FORECAST CALLING FOR A RAIN EVENT FOR AN<br>OF INLET PROTECTION SHOULD BE MADE TO<br>OF WATER IF TRAFFIC OR PROPERTY CONCERNS   | GRATE INLET PROTECTION  | GP   |   |    | T                          |                              | ÷ < -   |
|   | CURB INLET PROTECTION   | (IP)   |   |    |                            | DRN AND ASS<br>BUILDING 2, S | 23/ FAX: 512-2<br>.EY-HORN.COM<br>ENGINEERING |
|   | ROCK BERM   | (RB)   |   |    |                            | Ť, Ž                         | $\sim$ $-$                                    |
|   | TREE PROTECTION   | <br>(TP)-  | TP  |    |                            | 2023 KIMLEY-<br>ST PARKWAY   | NE: 512-6463<br>WWW.KIM<br>REGISTERED         |
|   |   |  |   |    |                            |                              | TEXAS REC                                     |
|   | <ul> <li>SHOWN ON THIS SITE MAP</li> <li>CONTRACTOR SHALL RECO<br/>AND REMOVAL DATES FOR<br/>ORIGINAL SWPPP OR NOT)</li> <li>DRAINAGE PATTERNS ARE<br/>CONTOURS, FLOW ARROW</li> <li>TEMPORARY AND PERMAN<br/>INSTALLED AT THE EARLIE<br/>SEQUENCE. AS AN EXAMPI<br/>BEFORE COMMENCEMENT<br/>INSTALLED AS SOON AS PF<br/>SITE STABILIZATION IS ATT<br/>AND LANDSCAPE PLANS S<br/>LANDSCAPING, THE BUILDI</li> <li>BMP'S HAVE BEEN LOCATE<br/>GENERALLY ACCEPTED EN<br/>SEDIMENT TRANSFER. FOF<br/>AND INLET PROTECTION FF</li> <li>SANITARY SEWER EFFLUE<br/>CONNECTED TO A MUNICIF</li> <li>IN AREAS WITH 4:1 SLOPES<br/>IF NECESSARY.</li> <li>ALL SAWCUT WATER SHALL<br/>CONCRETE WASHOUT PIT)</li> <li>ALL HYPERCHLORINATED '<br/>INTO SANITARY SEWER SY</li> <li>CONTRACTOR SHALL HAVE</li> <li>CONTRACTOR SHALL HAVE</li> <li>COMPLY WITH ALL E.P.A. S<br/>REQUIREMENTS.</li> <li>SOIL TRACKED ONTO PUBL</li> </ul> | RESPONSIBLE FOR SELE<br>CTIVENESS OF ALL SWP<br>ARE SUGGESTED CONTORD INSTALLATION, MAI<br>REACH BMP EMPLOYED<br>DIRECTLY ON THE SITE<br>SHOWN ON THIS PLAN<br>/S, AND SLOPES.<br>IENT STABILIZATION PR.<br>ST POSSIBLE TIME DUR<br>LE, PERIMETER SILT FEIT<br>OF ANY GRADING ACTI<br>RACTICABLE AND SHALL<br>CANTED. CONTRACTOR ST<br>INCE PERMANENT STAB<br>ING(S), AND SITE PAVING<br>ED AS INDICATED ON TH<br>NGINEERING PRACTICES<br>REXAMPLE: SILT FENCE<br>OR INLETS RECEIVING ST<br>NT IS DISPOSED OF VIA<br>PAL SEWER SYSTEM.<br>S, CONTRACTOR TO INS'<br>L BE VACUUMED AND D<br>D.<br>WATER AND BLOW OFF<br>STEM.<br>E A COPY OF THE SWPP<br>ESPONSIBLE FOR SUBN<br>TION REQUIRED BY THE<br>STORM WATER POLLUTION<br>LIC ROADS MUST BE REL<br>ND PRIOR TO THE NEXT<br>EDIMENT FROM STREET<br>VIDE CLASS 1 TYPE A M.<br>SLOPES. REFER TO SHELD<br>OR PROPOSED RESTORA | PP CONTROLS - CONTROLS<br>TROLS ONLY.<br>NTENANCE OR MODIFICATIO<br>(WHETHER CALLED OUT ON<br>MAP.<br>BY PROPOSED AND EXISTING<br>ACTICES AND BMP'S SHALL B<br>ING THE CONSTRUCTION<br>NCE SHALL BE INSTALLED<br>VITIES. OTHER BMP'S SHALL I<br>BE MAINTAINED UNTIL FINAL<br>SHALL ALSO REFERENCE CIVI<br>ILIZATION IS PROVIDED BY<br>3.<br>IS PLAN IN ACCORDANCE WIT<br>S LOCATED AT TOE OF SLOP<br>SEDIMENT FROM SITE RUN-OF<br>AN ONSITE SEWER SYSTEM<br>TALL SOIL RETENTION BLANK<br>ISPOSED PROPERLY (I.E.<br>WATER SHALL BE DISCHARG<br>P ON SITE AT ALL TIMES.<br>IITTAL OF N.O.I., N.O.T., AND<br>E E.P.A. CONTRACTOR SHALL<br>DN PREVENTION<br>MOVED AT A FREQUENCY TH.<br>TALL SOIL RETENTION BLANK<br>ISPOSED PROPERLY (I.E.<br>WATER SHALL BE DISCHARG<br>P ON SITE AT ALL TIMES.<br>IITTAL OF N.O.I., N.O.T., AND<br>E E.P.A. CONTRACTOR SHALL<br>DN PREVENTION<br>MOVED AT A FREQUENCY TH.<br>TALN EVENT, IF FEASIBLE.<br>S IS PROHIBITED.<br>ATTING BIONET SC150BN IN<br>ET 39 - STABLIZATION AND<br>ATION AND STABILIZATION |    | 7786844<br>DATE<br>23/2023 | NWN<br>SB                    | CHECKED BY: BAB 52                            |
| DRAINAGE EASEMENT<br>WALL EASEMENT<br>0.19 ACRES<br>DOC. NO. 201700213<br>OPRTC   | PHASE<br>1. GRADING   | EROSION C<br>ALL SILT FENCE AND<br>ENTRANCE/EXIT SHA<br>THE INITIATION OF RO<br>CONSTRUCTION ENT<br>THIS TIME.   | LL BE INSTALLED PRIOR TO<br>DUGH GRADING.<br>RANCE TO BE INSTALLED AT   |    | ERO(                       | ONTRC                        |   |
| PUBLIC UTILITY EASEMENT<br>DOC. NO.   | 2. UTILITY INSTALLATION   | INITIATION OF ALL UT   | LL BE INSTALLED PRIOR TO T<br>ILITY CONSTRUCTION. UPON<br>STORM SEWER INSTALLATION<br>TO BE INSTALLED.  |    |                            | ŭ                            |   |
| PROPOSED SF J-HOOK AT<br>DOWNHILL FENCE ENDS (TYP.)   | 3. PAVING/BUILDING  | INSTALLED ABOVE TO   | CONTROL MEASURES<br>) BE MAINTAINED DURING<br>6HOUT THE REMAINDER OF T  | HE |                            |                              |   |
| TEMPORARY SILT FENCE<br>TO BE INSTALLED PRIOR<br>TO DRIVEWAY GRADING<br>ACTIVITIES  | 4. SOIL STABILIZATION<br>/LANDSCAPING   | AFTER SITE CONSTR<br>CONTRACTOR TO EX<br>AND REMOVE SEDIMI<br>TEMPORARY ENTRAM<br>PROTECTION. ALL PR<br>MEASURES INSTALLE  | NCE/EXIT AND INLET<br>NOR EROSION CONTROL<br>D ABOVE TO BE MAINTAINED<br>IG AND THROUGH OUT THE   |    | SING                       |                              | Ŋ   |
|   | TOTAL ONSITE DISTURBED A  | OTAL DISTURBED A<br>REA 23.  | REA<br>19 ACRES   |    | CROS                       | E CAVE                       | TEXA  |
|   | BM #10  | NORTHWEST CORN<br>NORTH SIDE OF SW<br>DRIVE, ±690' EAST (<br>CENTERLINE.<br>(LEV=1145.93' (NAVD '88)<br>2 PK NAIL WITH WASI  | HER SET AT THE<br>IER OF CURB INLET ON<br>/EETWATER VILLAGE<br>OF CROSS PEAK DRIVE  |    | ATER                       |                              | TRAVIS COUNTY,                                |
| LIMITS OF<br>CONSTRUCTION &<br>SILT FENCE   | fore you dig.   |  | ETWATER VILLAGE DRIVE,<br>DSS PEAK DRIVE  |    | shee<br>23 (               | T NUMBE                      |   |

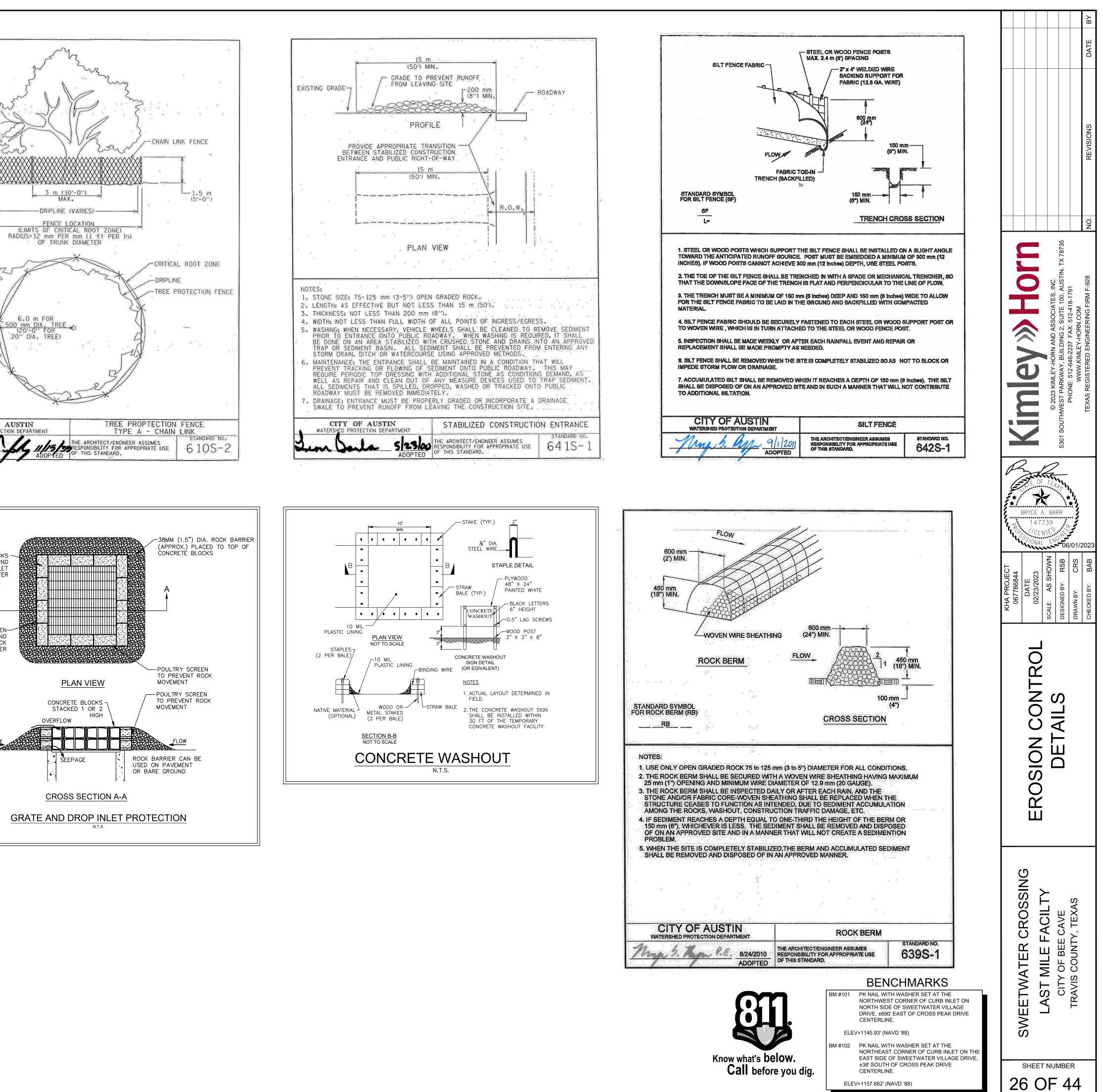


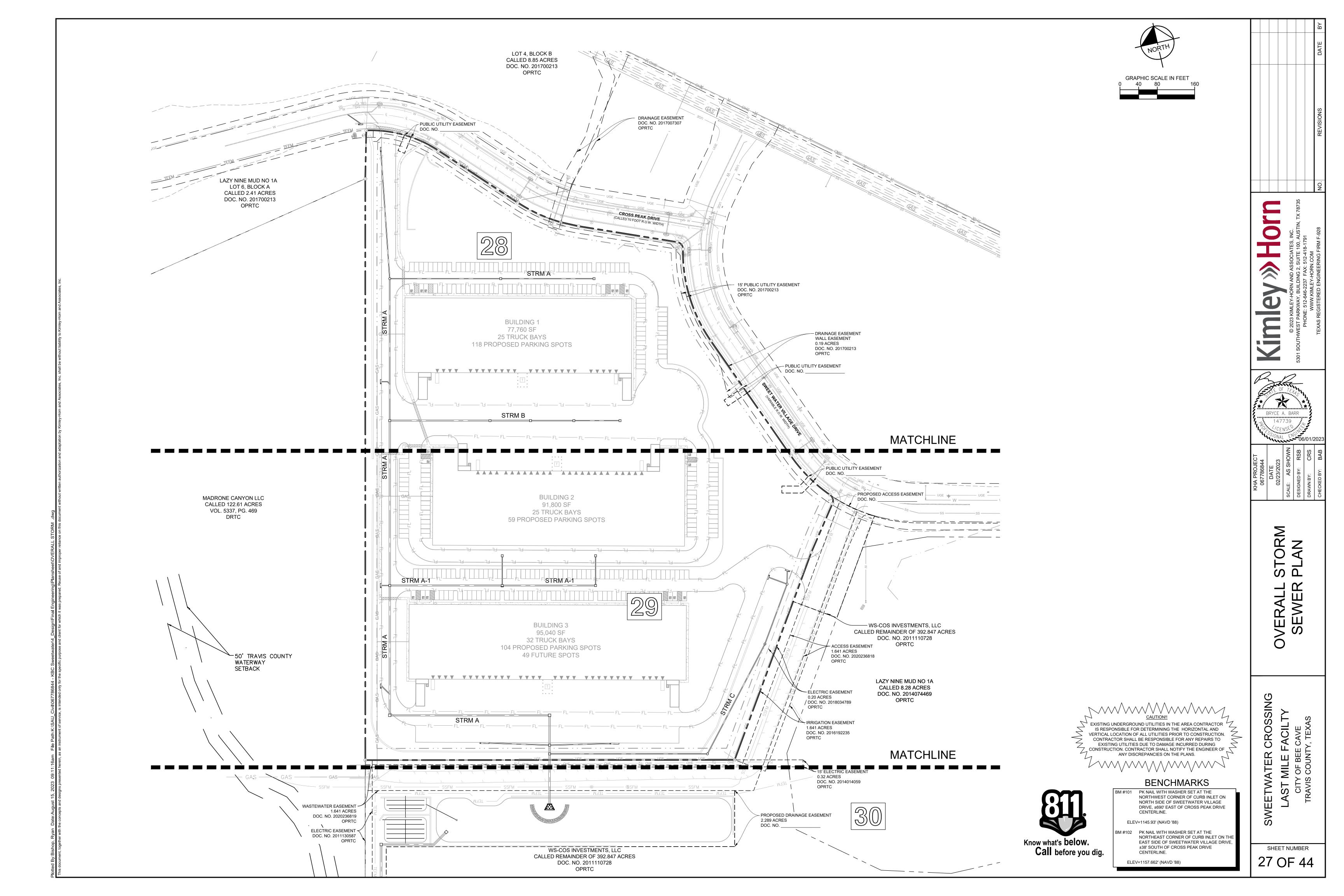


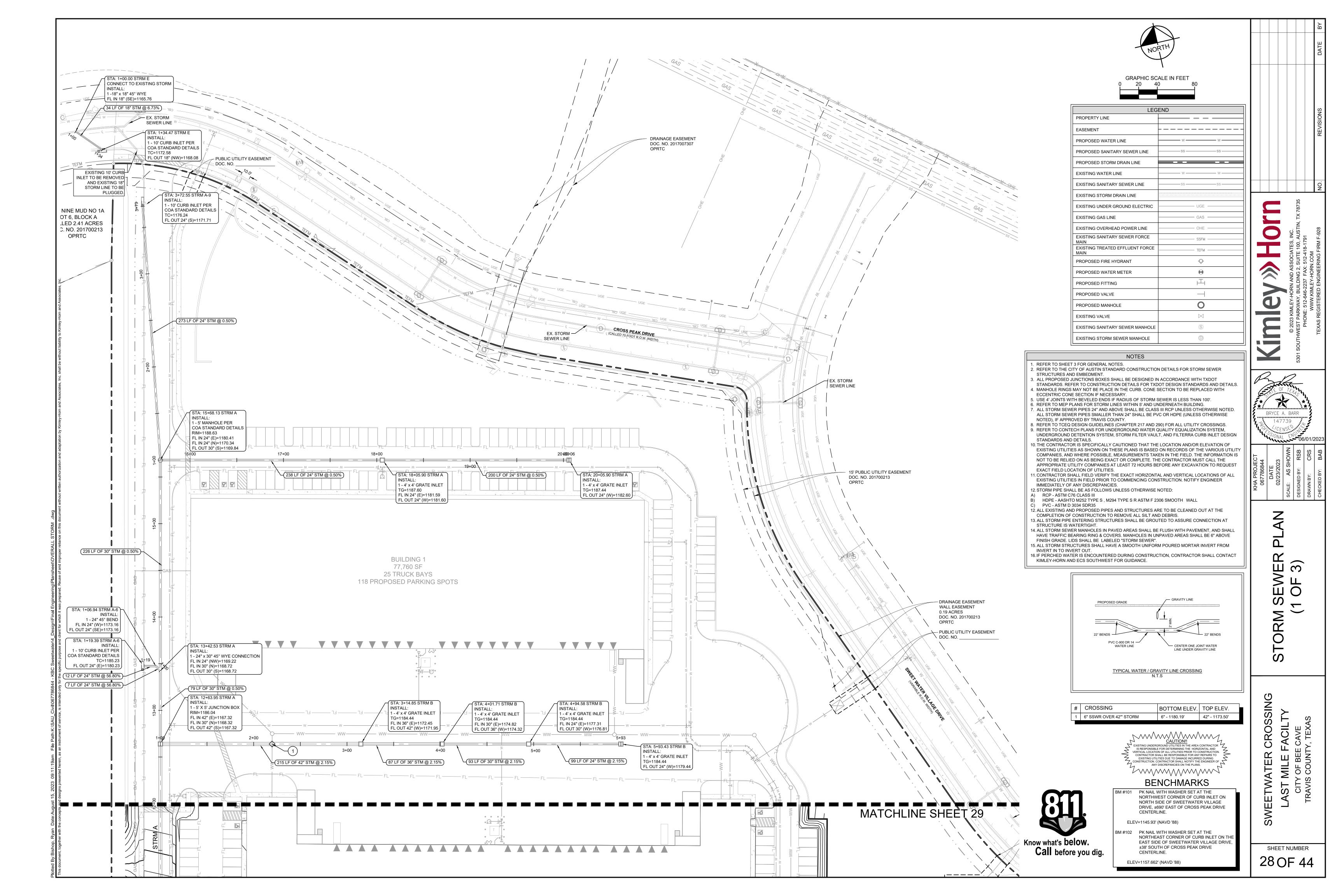
| Т          | RAVIS COUNTY TRANSPOR  |
|------------|--|
| 1.         | IF A CONCRETE WASHOUT IS TO<br>THE PLAN SHEETS THAT STATES<br>CONSTRUCTION HAS BEGUN AND<br>THAT TIME.   |
| 2.         | ALL REQUIRED NOTICES AND PER<br>ONSITE BEFORE THE COMMENCE   |
| 3.         | ALL EROSION AND SEDIMENTATION ANY DISTURBANCE TO THE PROJ  |
| 4.         | INSTALL SILT FENCE ACCORDING<br>CONTROL DEPENDING ON UP OR<br>GRADIENT SIDE.   |
| 5.<br>6.   | ALL ESC USED ONSITE MUST BE<br>MUD AND OR DIRT TRACKED INTO  |
| 7.         | UPON DISCOVERY.<br>EXCESS MATERIALS THAT WILL B<br>HAVE THAT LOCATION CLEARED  |
| 8.<br>9.   | LOOSE TRASH AND DEBRIS MUST<br>CONTRACTOR SHALL MAINTAIN A   |
| 10.        | THE PROJECT.<br>THE STABILIZED CONSTRUCTION<br>THAT PREVENTS TRACKING ONTO<br>DASIS  |
| 11.<br>12. | BASIS.<br>INLET PROTECTION SHALL BE INS<br>INITIATE TEMPORARY STABILIZAT   |
| 13.        | AREA FOR 14 DAYS.<br>INITIATE PERMANENT STABILIZAT<br>GRADE HAS BEEN ACHIEVED.   |
| 14.        | ALL DISTURBED/BARE AREAS WIL<br>ACCEPTANCE CAN BE ACHIEVED<br>NOT NECESSARY FOR CONSTRUCT  |
| 15.        | COUNTY INSPECTOR MAY REQUE<br>NEEDED.  |
| 16.        | TEMPORARY ESC'S SHALL REMA<br>STABILIZATION HAS BEEN ACHIEV  |
| 17.        | CONTRACTOR MUST REMOVE SE<br>PIPES AND CULVERTS BEFORE C   |
| 18.        | TRAVIS COUNTY REQUIRES CER<br>INSPECTIONS AND REPORTING C<br>AND LARGER.   |
| 19.<br>20. | NO CONSTRUCTION EQUIPMENT<br>PERMITTEE SHALL INSPECT ALL I<br>SWP3 REPORT, UPON RECEIVING<br>EXTENDED PERIOD, MODIFICATIO<br>PREVENT FLOODING OR PONDING |

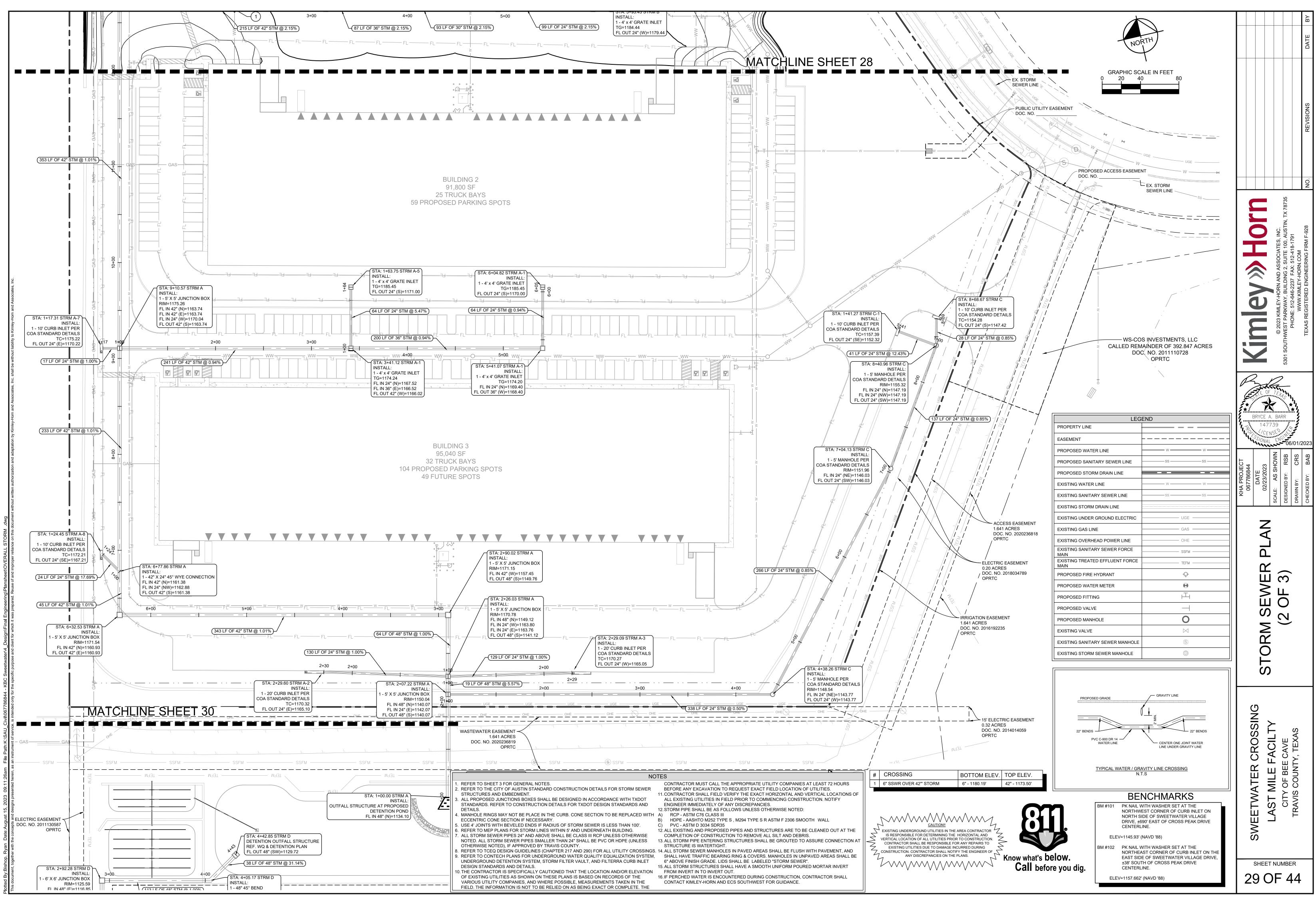


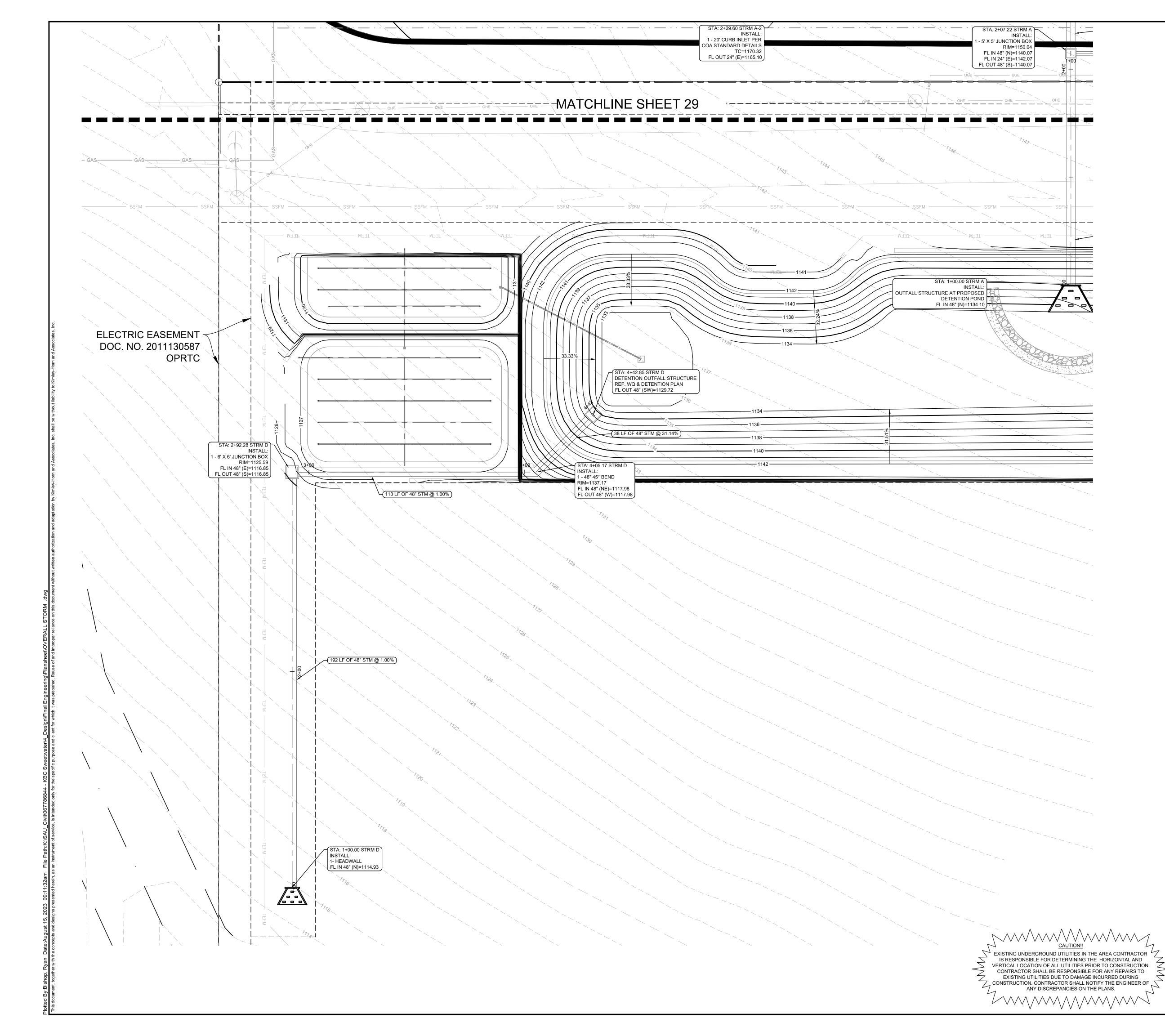
1 By:Bishop, Ryan Date:August 15, 2023 09:10:52am File Path:K:\SAU\_Civil\067786844 - KBC Sweetwater\4\_Design\Final Engineering\Plansheet\ERSION DETAILS.dwg













|   | LEGEND      |    |  |  |  |
|---|-------------|----|--|--|--|
| PROPERTY LINE                           |             |    |  |  |  |
|   |             |    |  |  |  |
| EASEMENT                                |             |    |  |  |  |
| PROPOSED WATER LINE                     | W           | W  |  |  |  |
| PROPOSED SANITARY SEWER LINE            | SS          | SS |  |  |  |
| PROPOSED STORM DRAIN LINE               |             |    |  |  |  |
| EXISTING WATER LINE                     |             | W  |  |  |  |
| EXISTING SANITARY SEWER LINE            | SS          | SS |  |  |  |
| EXISTING STORM DRAIN LINE               |             |    |  |  |  |
| EXISTING UNDER GROUND ELECTRIC          | UGE ·       |    |  |  |  |
| EXISTING GAS LINE                       | GAS ·       |    |  |  |  |
| EXISTING OVERHEAD POWER LINE            | OHE -       |    |  |  |  |
| EXISTING SANITARY SEWER FORCE<br>MAIN   | SSFM -      |    |  |  |  |
| EXISTING TREATED EFFLUENT FORCE<br>MAIN | TEFM ·      |    |  |  |  |
| PROPOSED FIRE HYDRANT                   | ¢           |    |  |  |  |
| PROPOSED WATER METER                    |             |    |  |  |  |
| PROPOSED FITTING                        | H           |    |  |  |  |
| PROPOSED VALVE                          | —           |    |  |  |  |
| PROPOSED MANHOLE                        | 0           |    |  |  |  |
| EXISTING VALVE                          | $\boxtimes$ |    |  |  |  |
| EXISTING SANITARY SEWER MANHOLE         | S           |    |  |  |  |
| EXISTING STORM SEWER MANHOLE            | D           |    |  |  |  |

NOTES

ALL PROPOSED JUNCTIONS BOXES SHALL BE DESIGNED IN ACCORDANCE WITH TXDOT STANDARDS. REFER TO CONSTRUCTION DETAILS FOR TXDOT

 MANHOLE RINGS MAY NOT BE PLACE IN THE CURB. CONE SECTION TO BE REPLACED WITH ECCENTRIC CONE SECTION IF NECESSARY.

5. USE 4' JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS

7. ALL STORM SEWER PIPES 24" AND ABOVE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED. ALL STORM SEWER PIPES SMALLER THAN 24" SHALL

BE PVC OR HDPE (UNLESS OTHERWISE NOTED), IF APPROVED BY TRAVIS

10. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF

6. REFER TO MEP PLANS FOR STORM LINES WITHIN 5' AND UNDERNEATH

8. REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL

9. REFER TO CONTECH PLANS FOR UNDERGROUND WATER QUALITY EQUALIZATION SYSTEM, UNDERGROUND DETENTION SYSTEM, STORM FILTER VAULT, AND FILTERRA CURB INLET DESIGN STANDARDS AND

1. CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN FIELD PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY

12. STORM PIPE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
A) RCP - ASTM C76 CLASS III
B) HDPE - AASHTO M252 TYPE S , M294 TYPE S R ASTM F 2306 SMOOTH

12. ALL EXISTING AND PROPOSED PIPES AND STRUCTURES ARE TO BE

CLEANED OUT AT THE COMPLETION OF CONSTRUCTION TO REMOVE ALL

13. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE

14. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS

15. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
16. IF PERCHED WATER IS ENCOUNTERED DURING CONSTRUCTION,

CONTRACTOR SHALL CONTACT KIMLEY-HORN AND ECS SOUTHWEST FOR

BENCHMARKS

NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE

NORTHEAST CORNER OF CURB INLET ON TH

EAST SIDE OF SWEETWATER VILLAGE DRIVE,

±38' SOUTH OF CROSS PEAK DRIVE

BM #101 PK NAIL WITH WASHER SET AT THE

BM #102 PK NAIL WITH WASHER SET AT THE

CENTERLINE. ELEV=1145.93' (NAVD '88)

CENTERLINE.

ELEV=1157.662' (NAVD '88)

. REFER TO THE CITY OF TRAVIS COUNTY STANDARD CONSTRUCTION

DETAILS FOR STORM SEWER STRUCTURES AND EMBEDMENT.

. REFER TO SHEET 3 FOR GENERAL NOTES.

DESIGN STANDARDS AND DETAILS.

THAN 100'.

BUILDING.

COUNTY.

DETAILS.

UTILITIES.

DISCREPANCIES.

WALL

SILT AND DEBRIS.

GUIDANCE.

Know what's below.

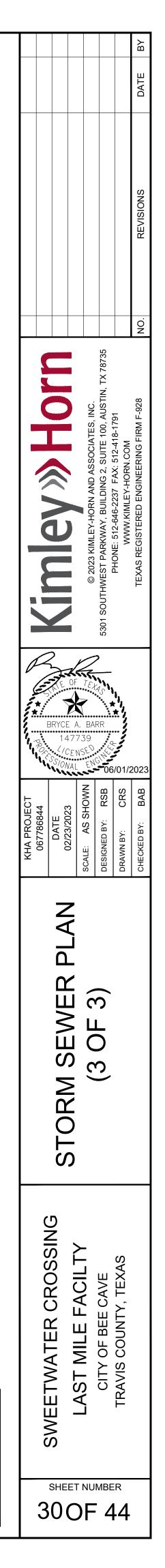
Call before you dig.

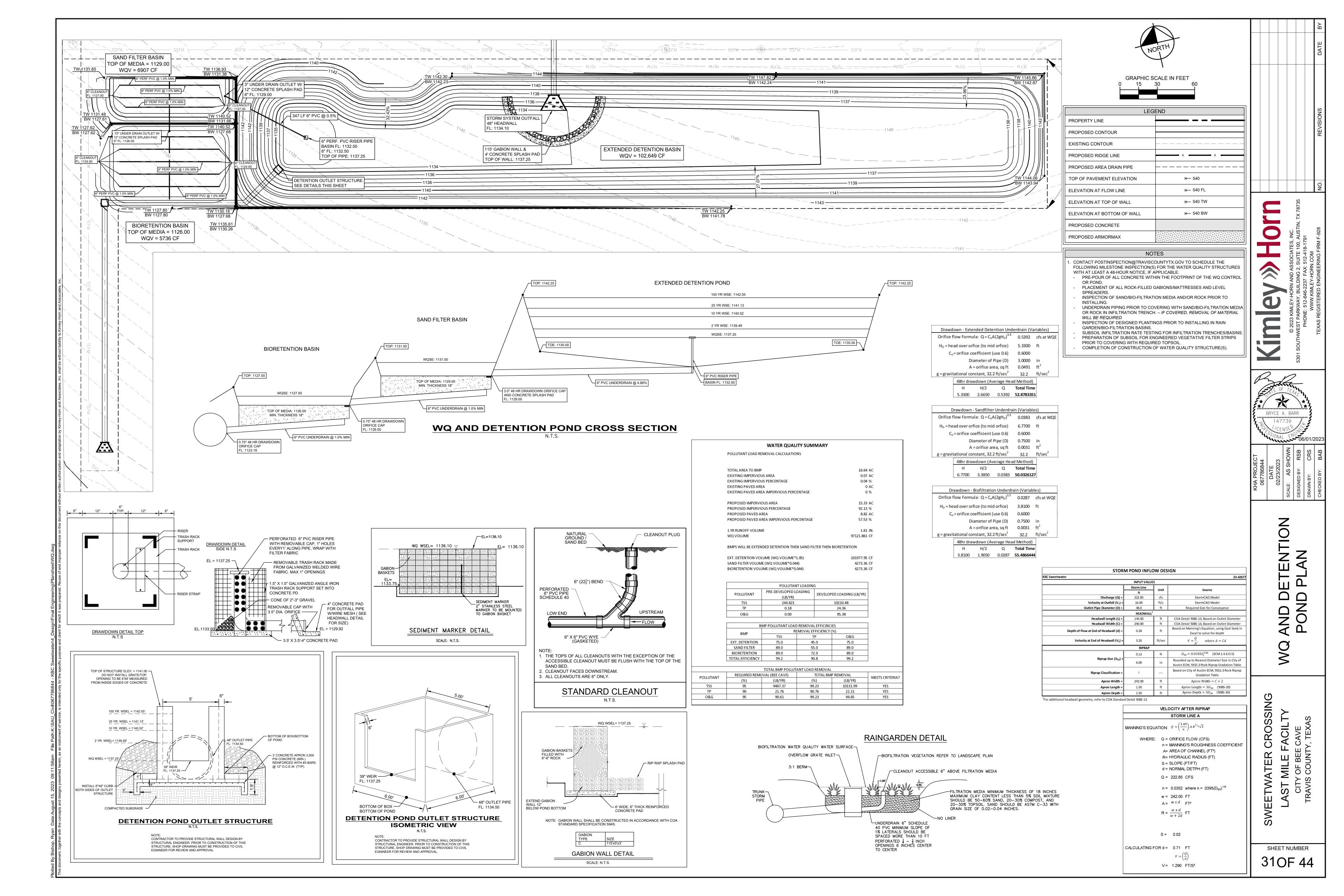
C) PVC - ASTM D 3034 SDR35

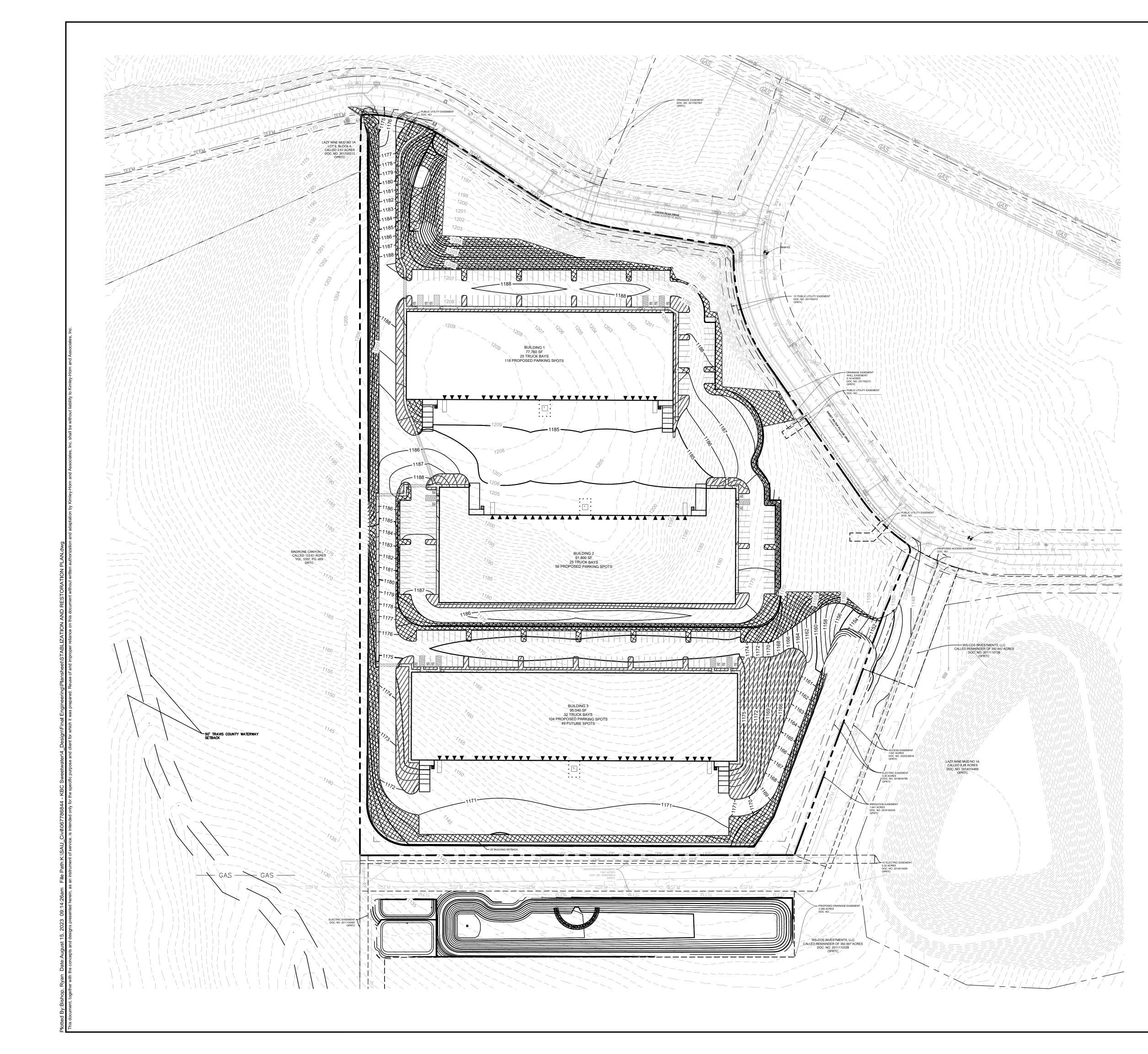
CONNECTION AT STRUCTURE IS WATERTIGHT.

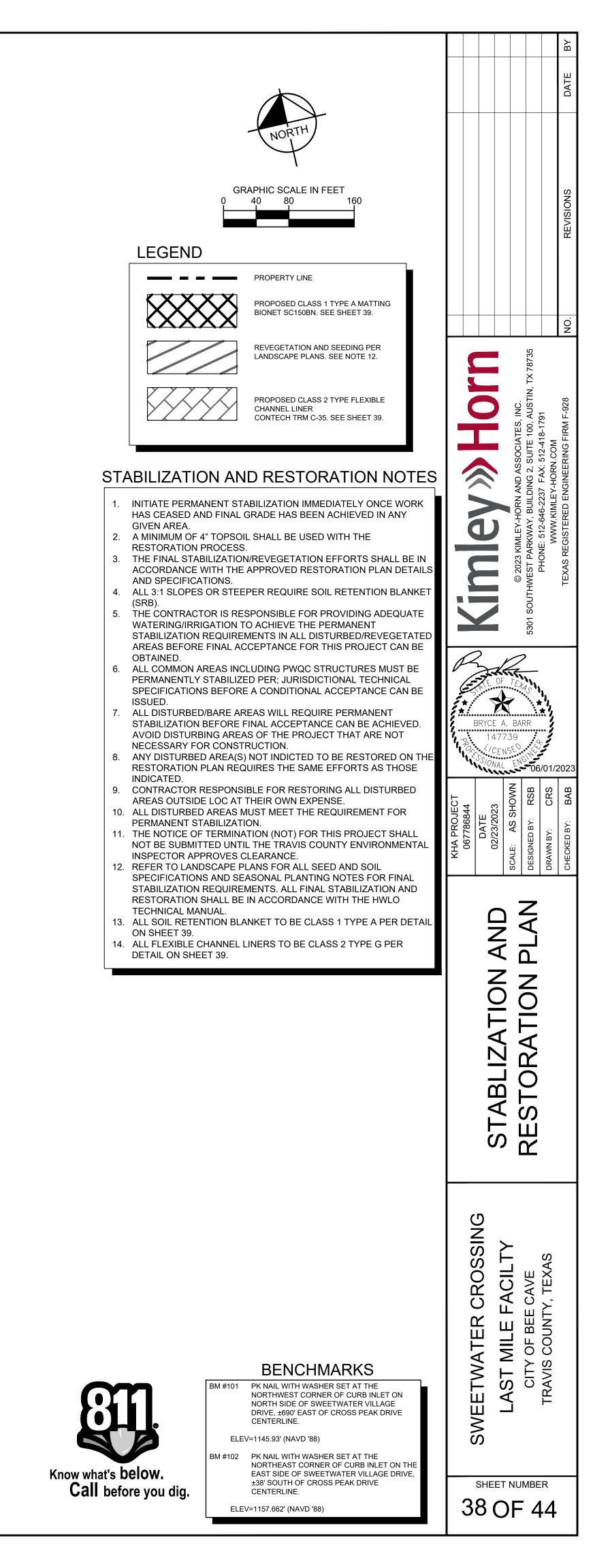
SHALL BE LABELED "STORM SEWER".

UTILITY CROSSINGS.











# Specification Sheet BioNet<sup>®</sup> SC150BN<sup>™</sup> Erosion Control Blanket

DESCRIPTION

The extended-term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 18 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with a 100% biodegradable woven natural organic fiber netting. The netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands (commonly referred to as Leno weave) to form an approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an overlap guide for adjacent mats.

The SC150BN shall meet Type 3.B specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

|              | Materia  | l Content                      |                                       |  |  |
|--------------|--|--------------------------------|---------------------------------------|--|--|
| Matrix       | 70% Straw Fiber  | 0.35 lbs/sq yd<br>(0.19 kg/sm) |                                       |  |  |
|              | 30% Coconut Fiber                                      |                                | 0.15 lbs/sq yd (0.08<br>kg/sm)        |  |  |
|              | Top: Leno woven 100 <sup>0</sup><br>biodegradable jute |                                | 9.35 lb/1000 sq ft<br>(4.5 kg/100 sm) |  |  |
| Netting      | Bottom: 100% biodeg<br>organic jute                    | radable                        | 7.7 lb/1000 sq ft<br>(3.76 kg/100 sm) |  |  |
| Thread       | Biodegradable  |                                |                                       |  |  |
|              |  |                                |                                       |  |  |
|              | Standard   | Roll Sizes                     |                                       |  |  |
| Width        | 6.67 ft (2.03 m)                                       | 8.0 ft (2.4 m)                 | 16 ft (4.87 m)                        |  |  |
| Length       | 108 ft (32.92 m)                                       | 112 ft (34.14 m)               | 112 ft (34.14 m)                      |  |  |
| Weight ± 10% | 52.22 lbs (23.69 kg)                                   | 65.28 lbs (29.6 k              | g) 130.5 <b>lbs (59.2 kg)</b>         |  |  |
| Area         | 80 sq yd (66.9 sm)                                     | 100 sq yd<br>(83.61 sm)        | 200 sq yd<br>(167.22 sm)              |  |  |
|              | Leno weave   | Leno top and                   | Leno top and                          |  |  |

bottom

NORTH **AMERICAN** GREEN<sup>®</sup> nagreen.com 800-772-2040

top only

Western Green 4609 E. Boonville-New Harmony Rd. Evansville, IN 47725

bottom



| Index Property        | Test Metho    |
|-----------------------|---------------|
| Thickness             | ASTM D6525    |
| Resiliency            | ECTC Guidelin |
| Water Absorbency      | ASTM D1117    |
| Mass/Unit Area        | ASTM D6475    |
| Swell                 | ECTC Guidelin |
| Smolder Resistance    | ECTC Guidelin |
| Stiffness             | ASTM D1388    |
| Light Penetration     | ASTM D6567    |
| Tensile Strength - MD | ASTM D6818    |
| Elongation - MD       | ASTM D6818    |
| Tensile Strength - TD | ASTM D6818    |
| Elongation - TD       | ASTM D6818    |
| Biomass Improvement   | ASTM D7322    |
|                       |               |

| Design Perm              | issible She |
|--------------------------|-------------|
| Unvegetated Shear Stress | 2.1         |
| Unvegetated Velocity     | 8.00        |
|                          |             |

|                  | - |       |         |
|------------------|---|-------|---------|
|                  |   |       | Slope G |
| Slope Length (L) |   | ≤ 3:1 | 3:      |
| ≤ 20 ft (6 m)    |   | 0.001 | 0       |
| 20-50 ft         |   | 0.051 | 0       |
| ≥ 50 ft (15.2 m) |   | 0.10  | 0       |
|                  |   |       |         |

|                | Roughness | Coefficient |
|----------------|-----------|-------------|
| Flow Depth     |           | Ma          |
| ≤ 0.50 ft (0.1 | 5 m)      |             |
| 0.50 – 2.0 ft  |           | 0.0         |
| ≥ 2.0 ft (0.60 | m)        |             |
|                |           |             |

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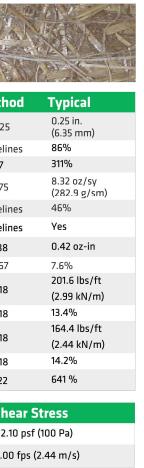
# **CONTECH TRM C-35**

The Turf Reinforcement Matrix (TRM) shall consist of a lofty web of polyolefin fibers positioned between two high strength, biaxially oriented nets and mechanically bound together by parallel stitching with polyolefin thread. The matrix shall possess strength and elongation properties to limit stretching and shall be maintained in a water-saturated condition. Every component of the matrix shall be stabilized against ultraviolet degradation and inert to chemicals normally encountered in a natural soil environment. The product shall have the following properties:

|  |  | M  | ARV <sup>2</sup>                                       |
|--|--|--|--|
| Property   | Test Method  | English  | Metric   |
| Physical   |  |  |  |
| Mass/Unit Area   | ASTM D6566   | 8.0 oz/sy  | 271g/m <sup>3</sup>                                    |
| Thickness  | ASTM D6525   | 0.35 in  | 8.9 mm   |
| Light Penetration (%<br>Passing)   | ASTM D6567   | 40%  | 40%  |
| Color  | Visual   | Gree   | en la              |
| Mechanical   |  |  |  |
| Tensile Strength   | ASTM D6818   | 225 x 175 lb/ft  | 3.3 x 2.6 kN/m   |
| Tensile Elongation   | ASTM D6818   | 50% (max)  | 50% (max)  |
| Resiliency   | ASTM D6524   | 80%  | 80%  |
| Flexibility  | ASTM D6575   | 0.015 in-lb (ave)  | 16,000 mg-cm (ave)                                     |
| Durability   |  |  |  |
| UV Resistance @ 1000 hrs   | ASTM D4355   | 80%  | 80%  |
| Performance  |  |  |  |
| Shear Stress <sup>3</sup>  | ASTM D6460   | 5 psf  | 240 Pa   |
| Manning's "n" <sup>4</sup>   | Calculated   | 0.025  | 0.025  |
| Seedling Emergence <sup>5</sup> ECTC Dra<br>Method #   |  | _  | -  |
| Roll Size  |  | 6.5 ft / 138.5 ft  | 2.0 m x 42.2 m   |
| OTES:  |  | 0.5 117 150.5 11   | 2.0 11 × 42.2 11                                       |
| <ol> <li>The property values listed a</li> <li>MARV indicates minimum a</li> <li>Statistically, it yields a 97.7 will exceed the value report</li> </ol> | average roll value, ca<br>% degree of confiden<br>ted. | 4 and are subject to change with<br>alculates as the typical minus tw<br>nce that any sample taken durin | o standard deviations.<br>ng quality assurance testing |

- 3. Maximum permissible shear stress has been obtained through vegetated testing programs featuring specific soil types, vegetation classes, flow conditions, and failure criteria. These conditions may not be relevant to
- every project nor are they replicated by other manufacturers. 12 inches.

Fracion Control Spac Sheets 5-3-01 DOC



#### Slope Design Data: C Factors Gradients (S)

3:1 − 2:1 ≥ 2:1 0.029 0.063 0.055 0.092 0.080 0.120

– Unveg. lanning's n

0.050 .050-0.018

0.018

EC\_RMX\_MPDS\_SC150BN\_1.19



4. Calculated as typical values from large-scale flexible channel lining test programs with a flow depth of 6 to

5. Calculated as average plant height obtained with tall fescue grass in sand 14 days after seeding.



# BENCHMARKS

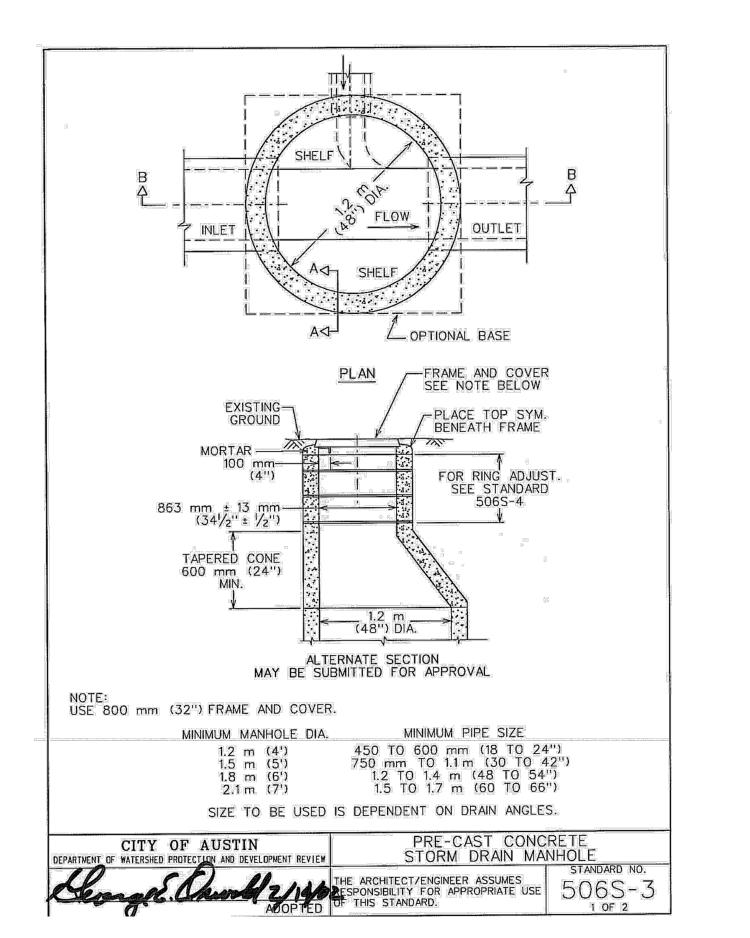
BM #101 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, ±690' EAST OF CROSS PEAK DRIVE CENTERLINE.

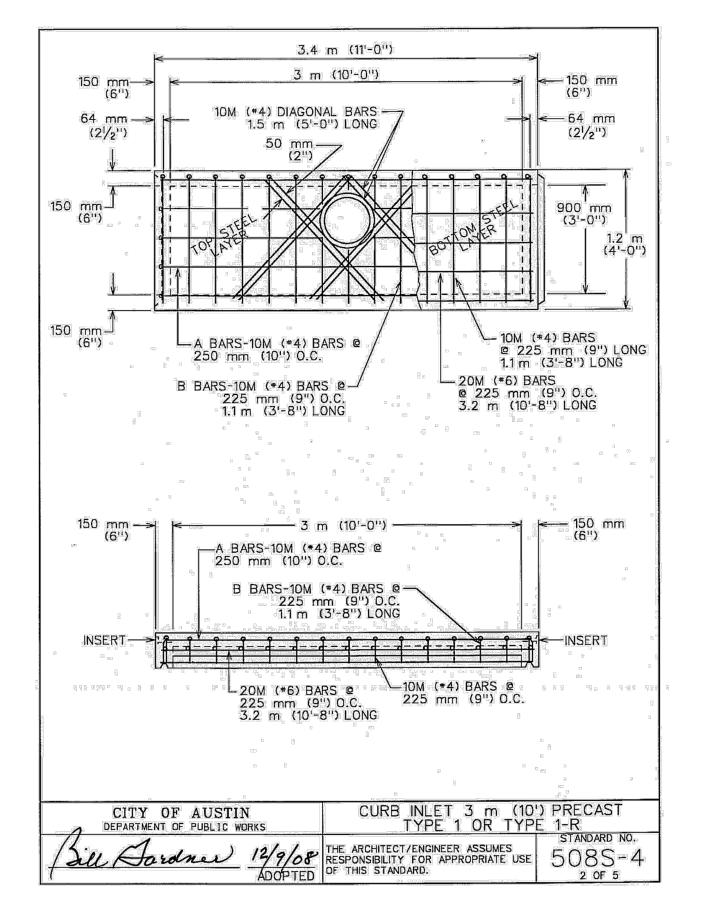
ELEV=1145.93' (NAVD '88)

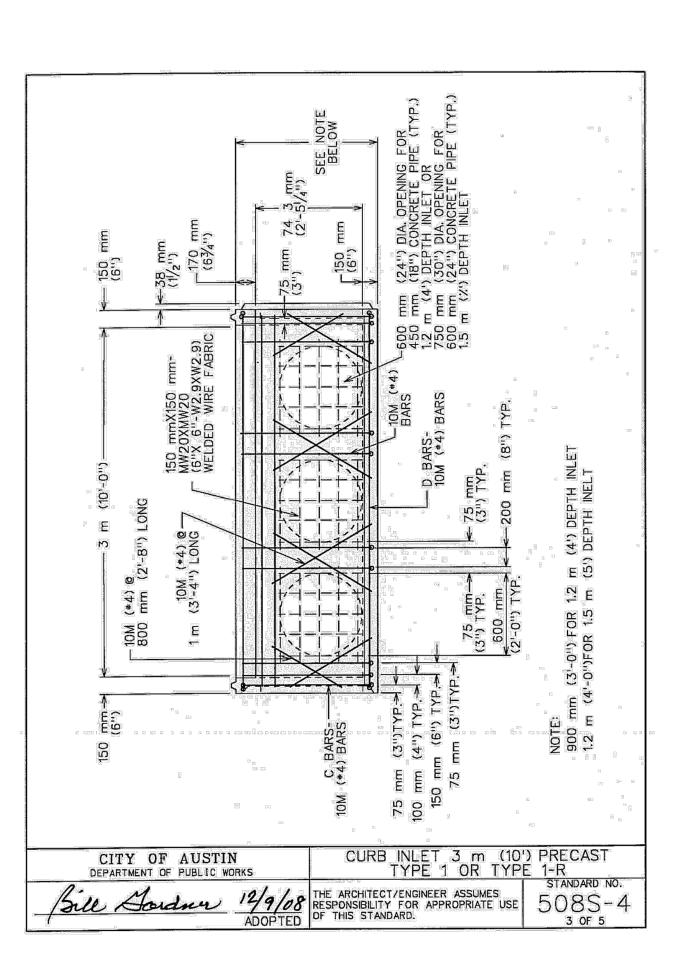
BM #102 PK NAIL WITH WASHER SET AT THE NORTHEAST CORNER OF CURB INLET ON THI EAST SIDE OF SWEETWATER VILLAGE DRIVE, ±38' SOUTH OF CROSS PEAK DRIVE CENTERLINE.

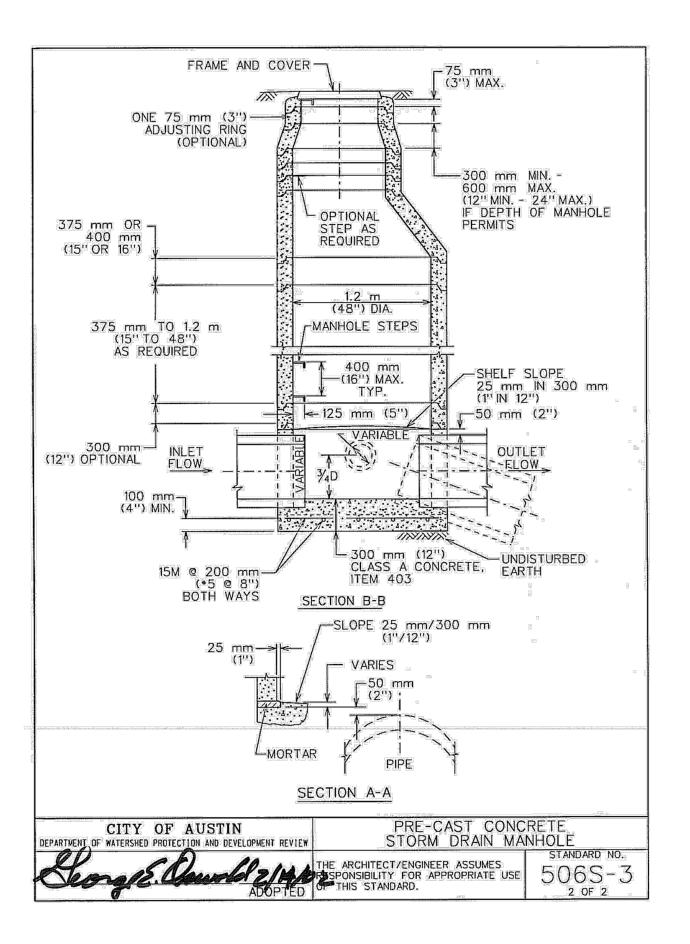
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| Solution       Solution <th< th=""></th<> |
| KHA PROJECT<br>067786844<br>067786844<br>DATE<br>DATE<br>DATE<br>02/23/2023<br>SCALE: AS SHOWN<br>DESIGNED BY: RSB<br>DESIGNED BY: RSB<br>DESIGNED BY: RSB<br>DESIGNED BY: RSB<br>DRAWN BY: CRS<br>CHECKED BY: BAB  |
| STABLIZATION AND<br>RESTORATION<br>DETAILS  |
| SWEETWATER CROSSING<br>LAST MILE FACILTY<br>CITY OF BEE CAVE<br>TRAVIS COUNTY, TEXAS  |
| sheet number<br>390F 44   |

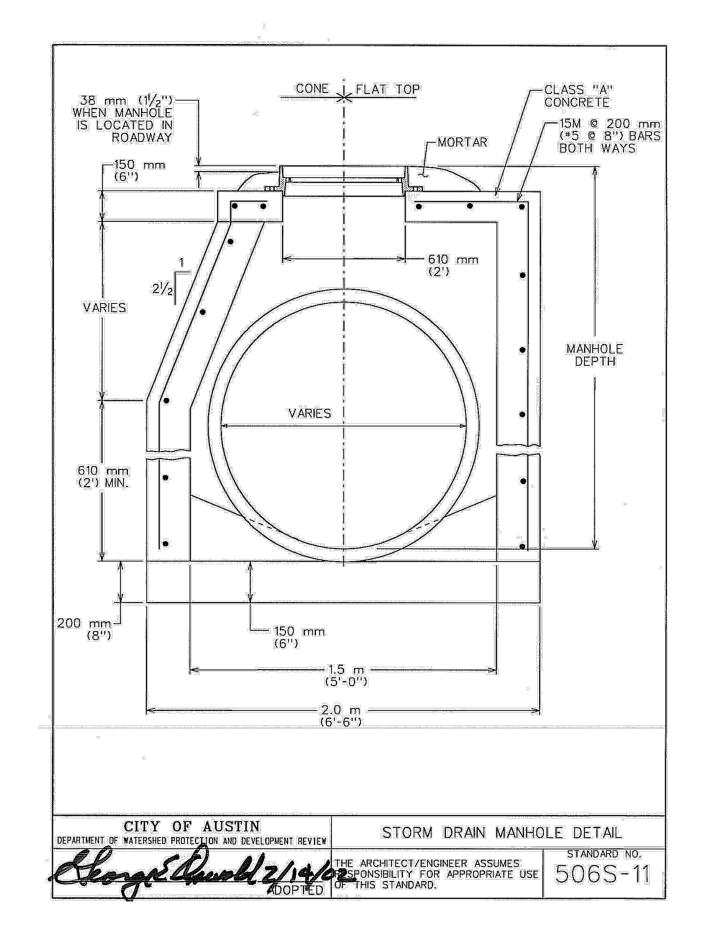


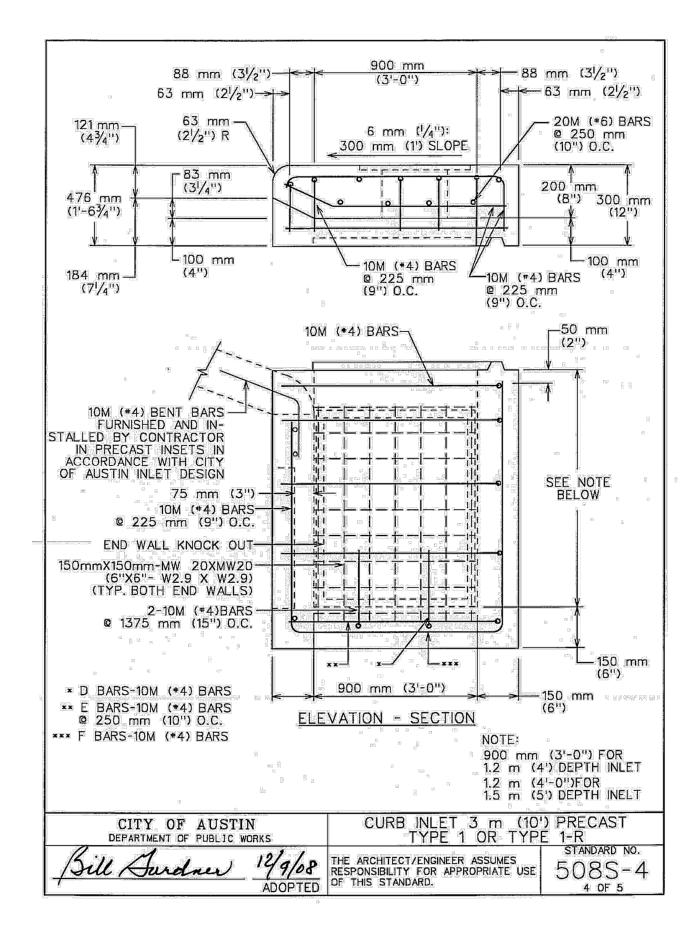


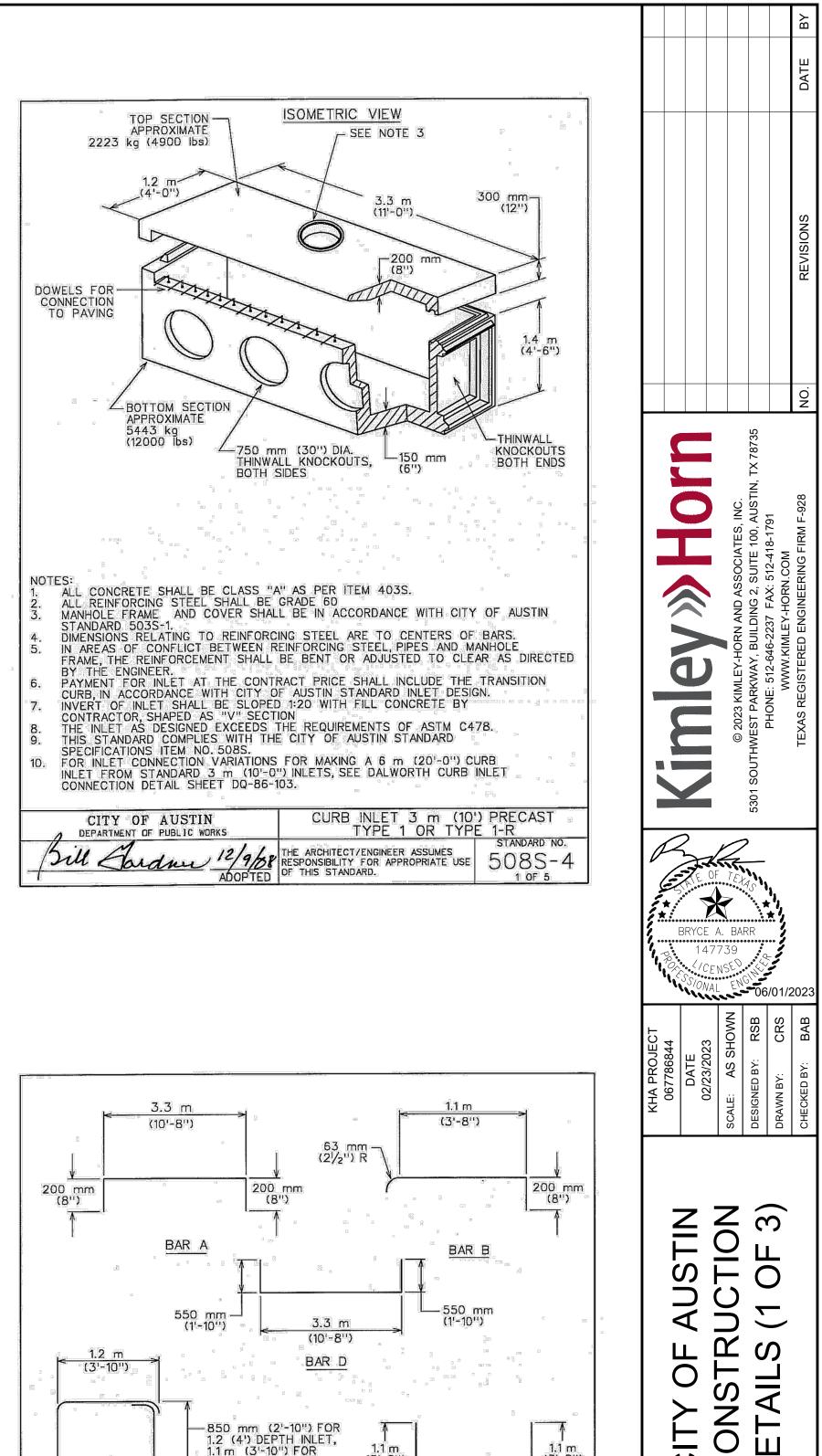


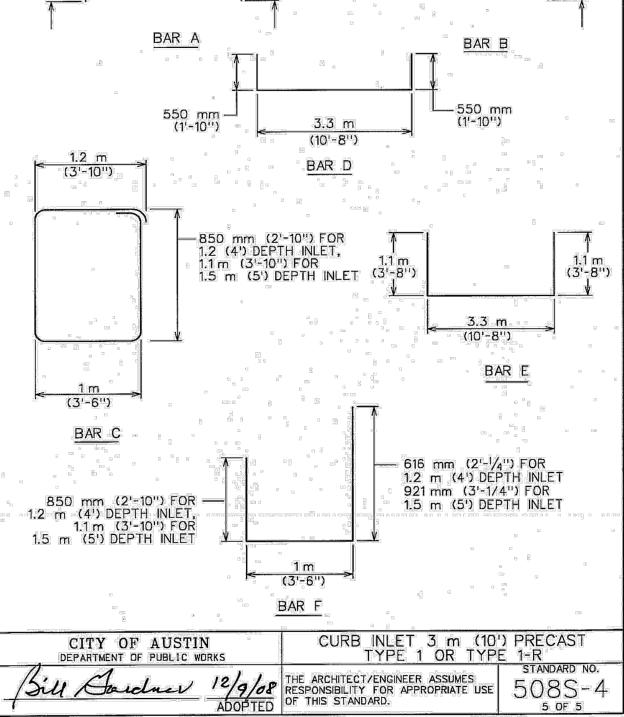












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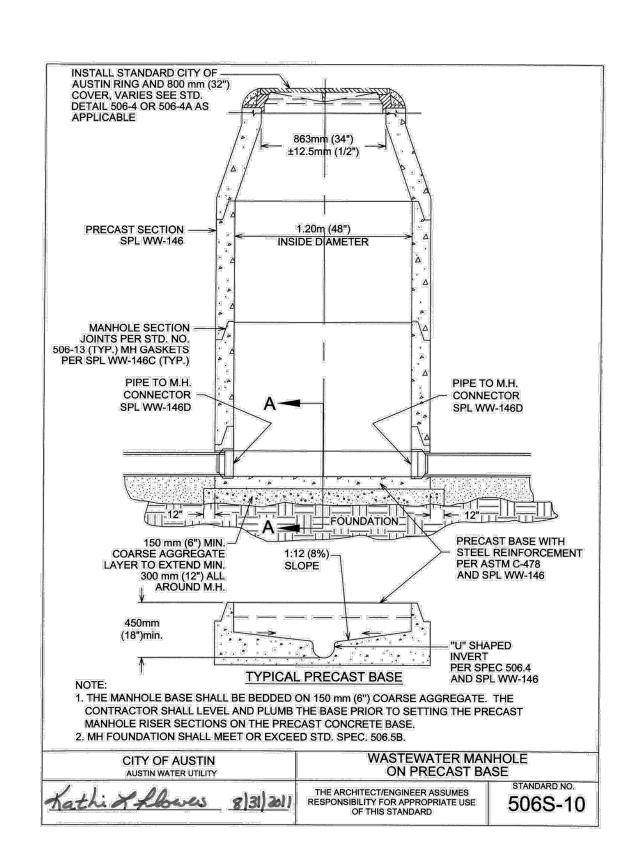
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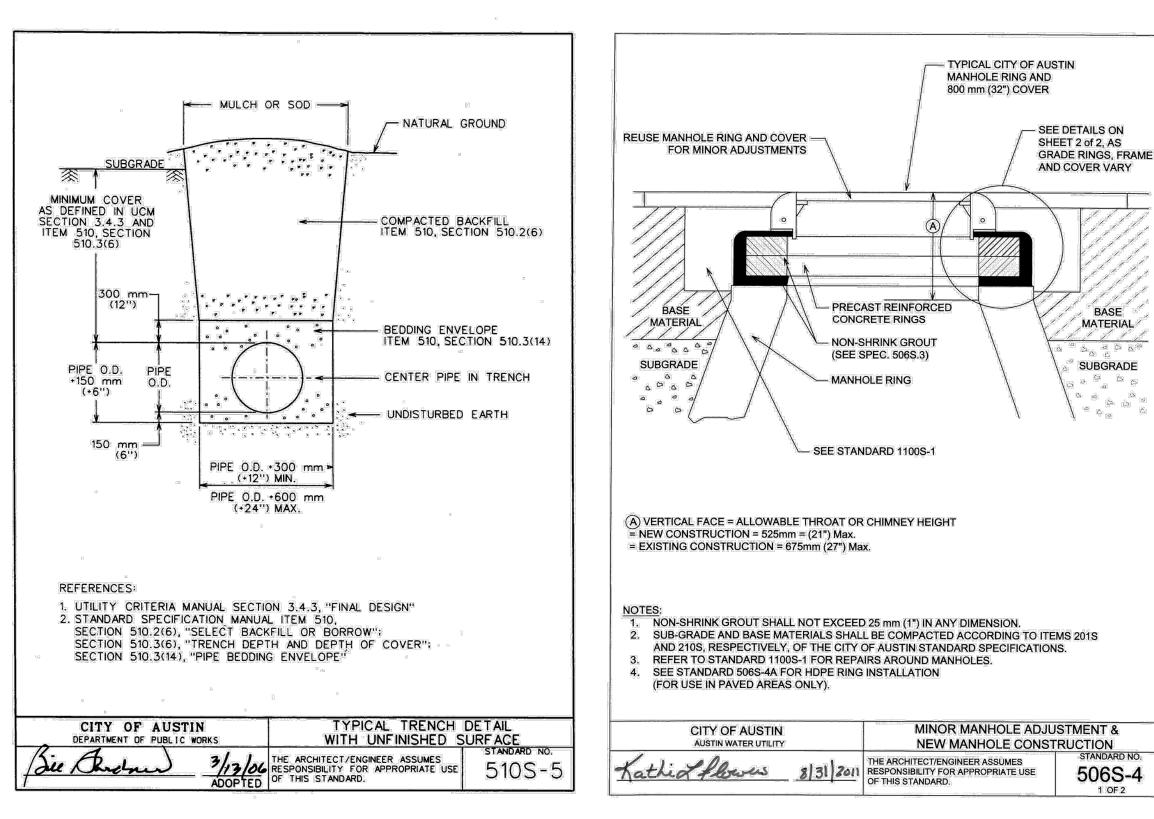
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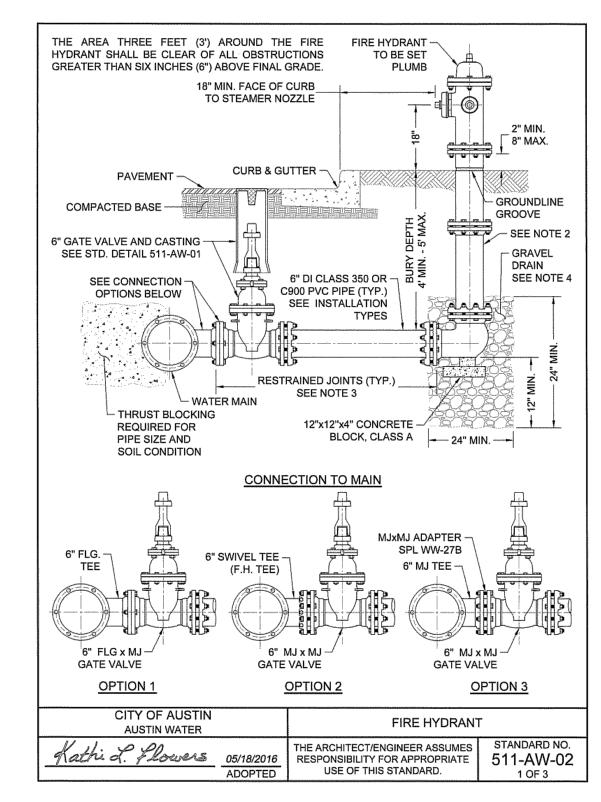
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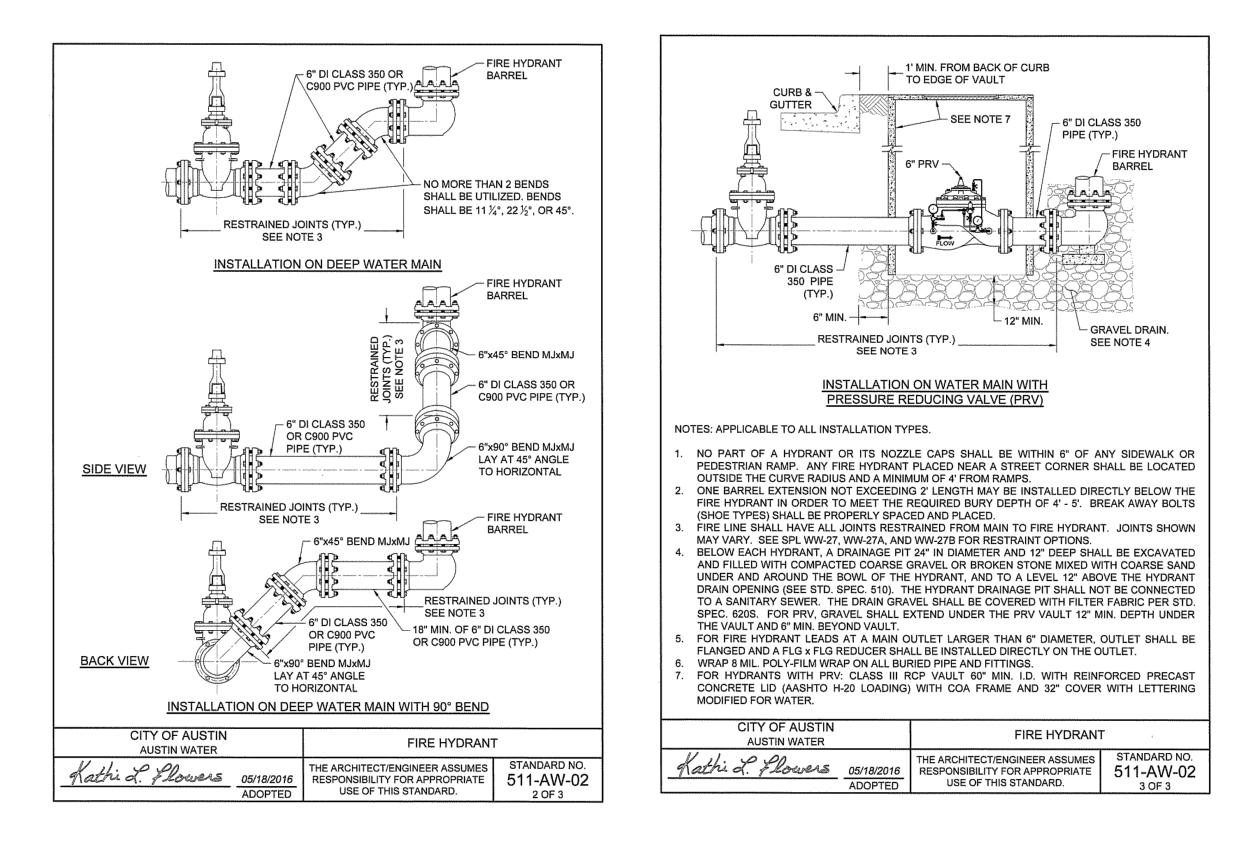
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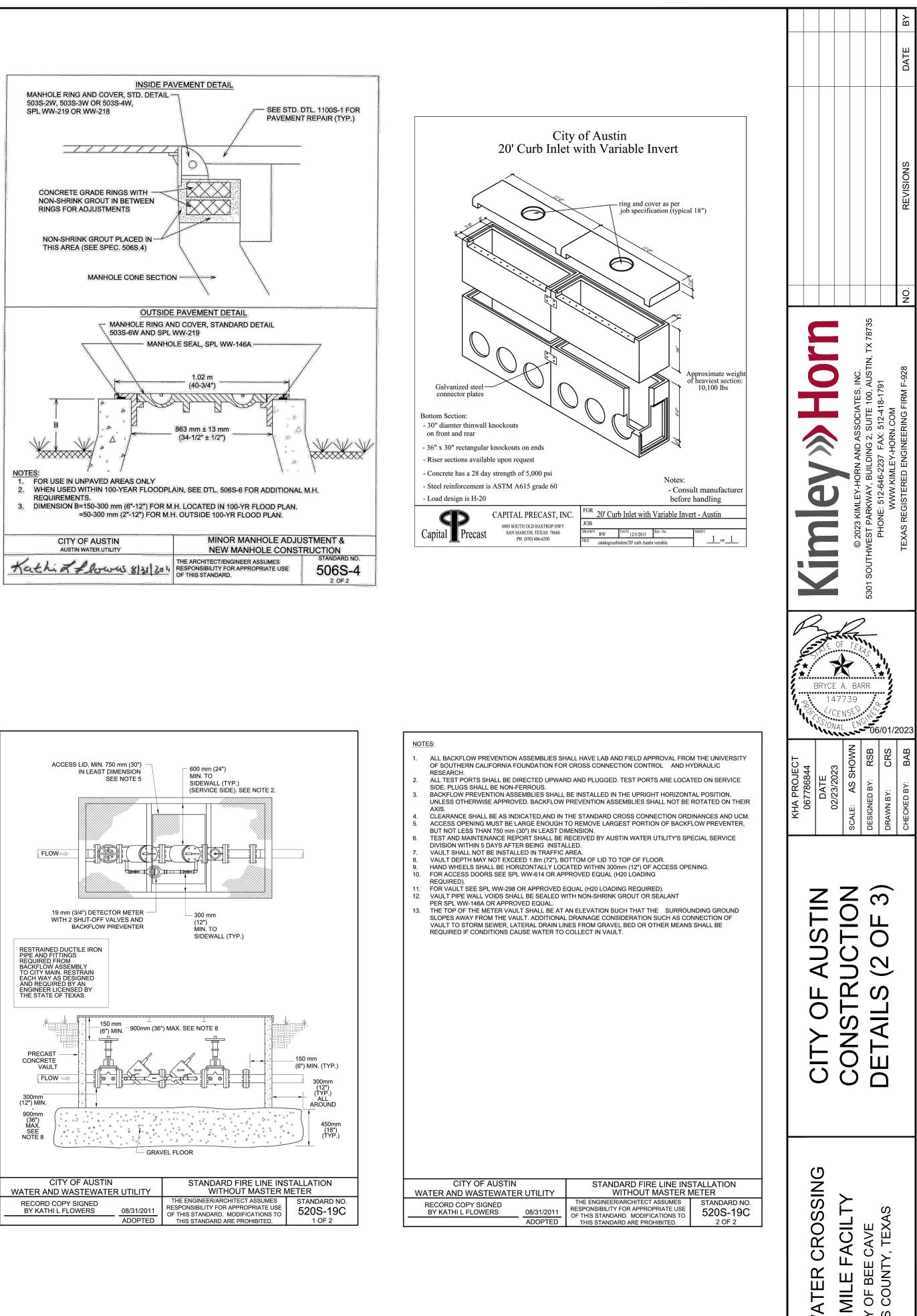


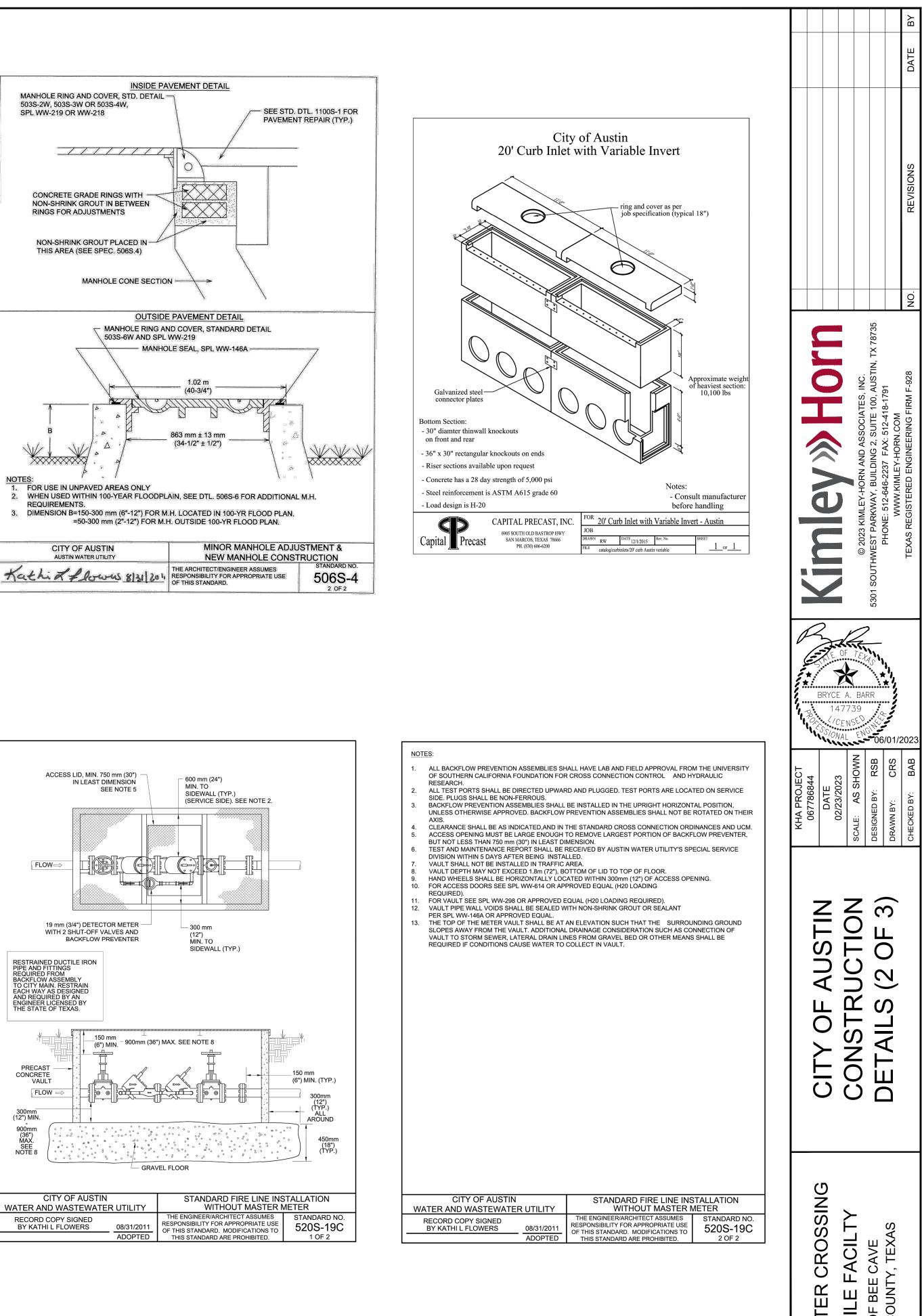












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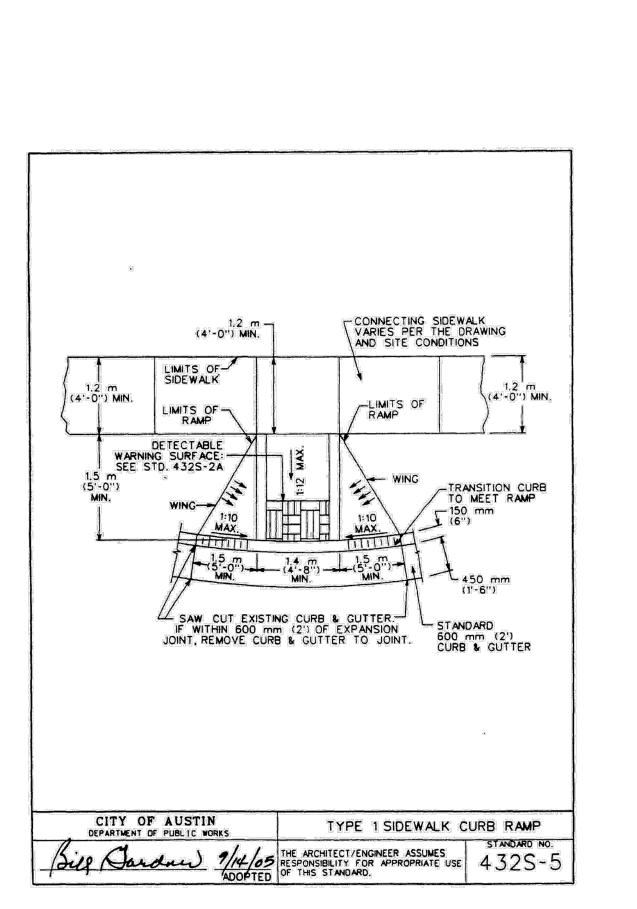
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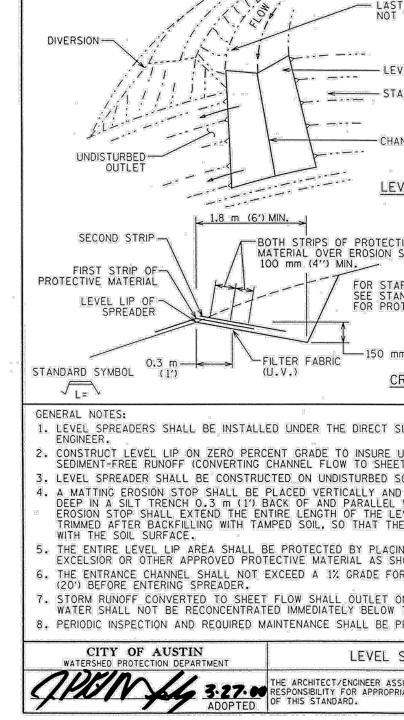
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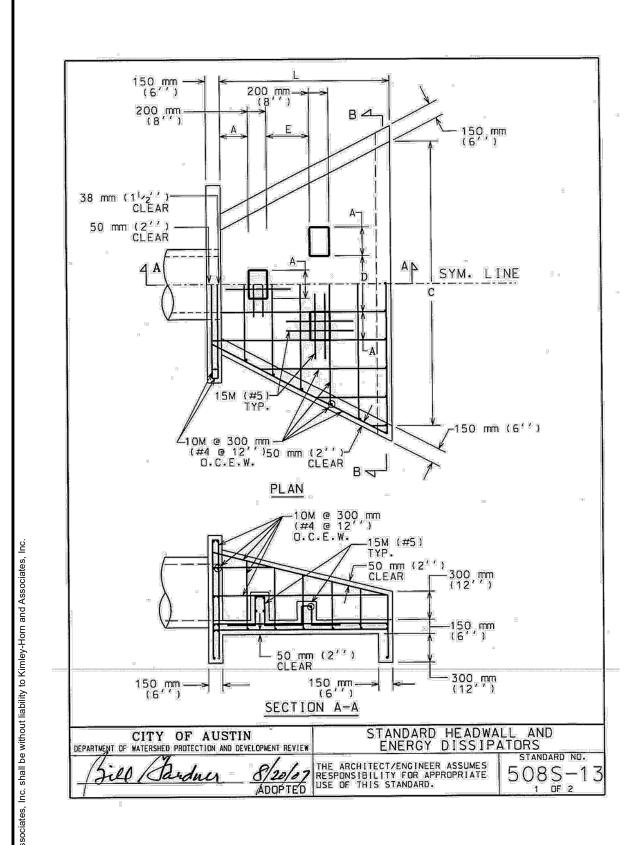
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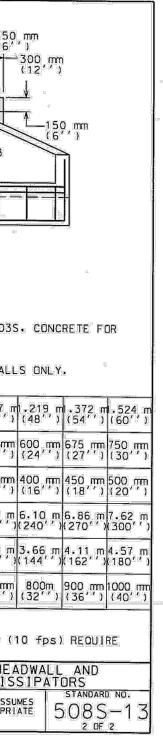
shop, Ryan Date:August 15, 2023 09:14:52am File Path:K:\SAU\_Civil\067786844 - KBC Sweetwater\4\_Design\Final Engineering\Plansheet\CITY OF AUSTIN CONSTRUCTION DETAILS.dwg

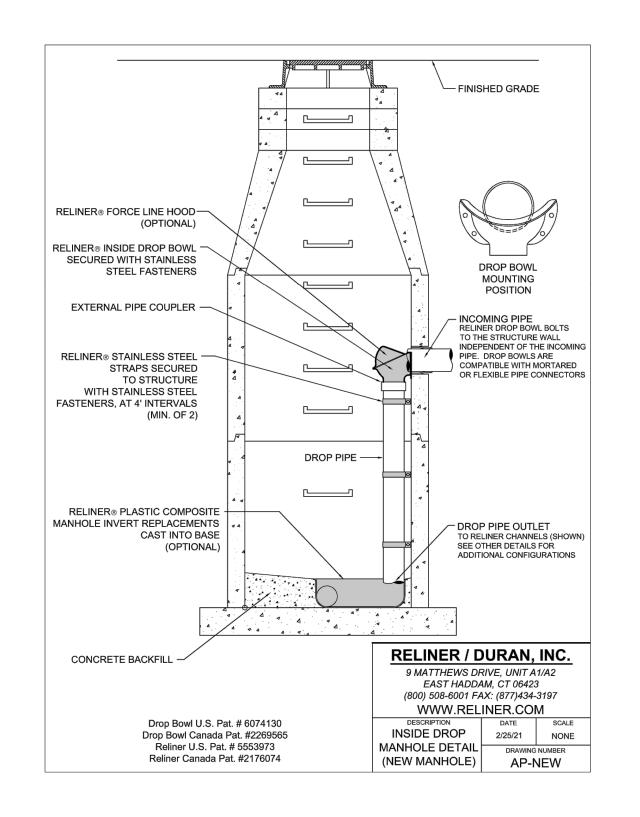


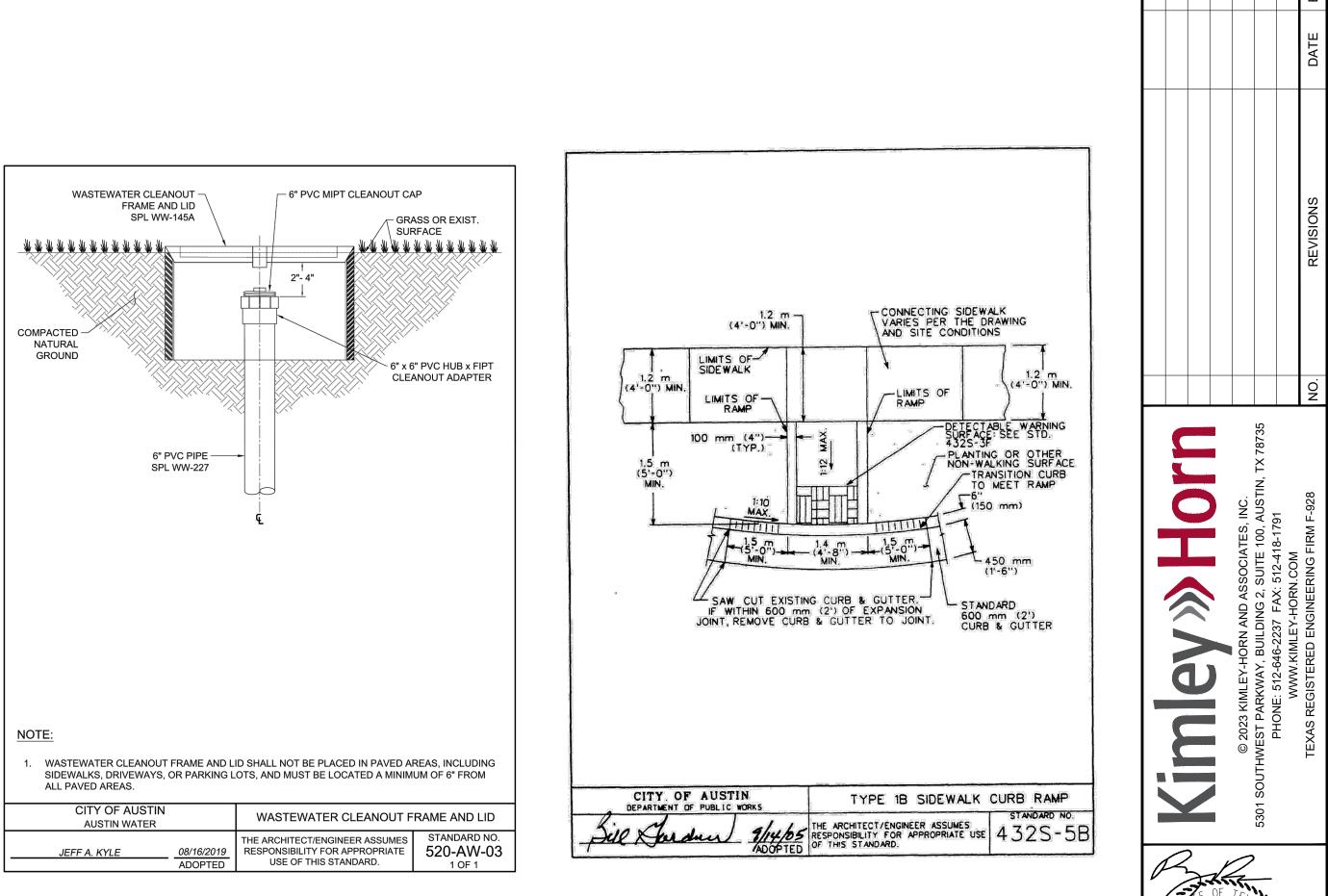




| F        | 3        |                               |                    | El Elsever.        |  |              | _         |                   | and a part of the              |                 | <u></u>        |
|----------|----------|-------------------------------|--------------------|--------------------|--|--------------|-----------|-------------------|--------------------------------|-----------------|----------------|
|          |          |                               |                    | 82 <b>(</b> ]      | 50 mm -                                | B            | <>        | <u>  D</u>        | *                              | -B              | 0              |
|          | 8        |                               | 6                  | 300<br>(12'        | 50,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ->           |           |                   |                                |                 | ;0<br>;''<br>; |
| 5        |          | 23                            | 300 m<br>(12       | 0 0 0 0            |  | a            |           | 5<br>             |                                |                 | 1<br>7 623     |
|          |          | 70 20 2                       | ⊐E- <i>d</i> d ⊽-  | <u>k</u>           | $\rightarrow$                          | Ż            | 1         | 5                 |                                |                 | $\overline{}$  |
| A MARY T |          | 38 mm (                       | CLEAR              |                    |  |              | Ц         |                   | ŮЦ                             | B               |                |
|          |          |                               | 0<br>2             |                    |  |              |           |                   |                                |                 |                |
|          | er<br>er |                               | 50                 | mm (2'             |  |              |           | 16. <u> </u>      |                                |                 | - 60<br>- 60   |
|          |          | 873<br>873                    |                    | CLL                |  | 8            | <u>SE</u> | CTION             | B-B                            |                 |                |
|          |          | NOTES                         |                    |                    | 2                                      | 8            |           |                   |                                |                 |                |
| 1000     |          | 1. ALL<br>STU                 | CONCRE<br>RCTURE S | ETE SHA<br>3.      | LL BE                                  | TYPE         | "C        | " AS P            | ER SPE                         | C. 40           | 3S,            |
|          |          | 2. CHA<br>3. DIS              | MFER AL<br>SIPATOF |                    |  |              |           |                   |                                | EADWAI          | LLS            |
|          | D        | 457,mm<br>(18,*)              | 533 ,m<br>(21 , 1) | 610,mm<br>(24,**)  | 685 m<br>(27'')                        | 765<br>(30   | m)        | 838 mm<br>(33'')  | 914 m<br>(36'')                | 1.067<br>(42''  | m<br>)         |
|          | A        | 225 m<br>(9**)                | 250 m<br>(10'')    | 300 mm<br>(12'')   | 350 mm<br>(14'')                       | 375<br>(15'  | رس<br>ر   | 400 mi<br>(16'')  | 450 mm<br>(18 '')              | 1525 ,rr<br>(21 | m e            |
|          | В        | 150 mm<br>(6'')               | 175, m<br>(7' ')   | 200, mm<br>(8' ' ) | 225 mm<br>(9'')                        | 250<br>(10   | ۳ŋ        | 275,mm<br>(11,7)  | 300 mm<br>(12 ** )             | 350,m<br>(14    | m 4            |
|          | С        | 2.29 m<br>(90'')              | 2.67 m<br>(105'')  | 3.05 m<br>(120'')  | 343,m<br>(135,"                        | 3.81<br>(150 | , m       | 4.19 m<br>(165'   | 4.57 m<br>(180'                | 5.33<br>(210'   | ,т е<br>) (    |
|          | L        | 1.37,m<br>(54'')              | 1.60 m<br>(63'')   | 1.83 m<br>(72'')   | 2.06 m<br>(81 )                        | 2.29<br>(90' | , m<br>)  | 2.51 m<br>(99'')  | 2.74 m<br>(108'                | 3.20<br>(126'   | m]:<br>/)(     |
|          | E        | 300,mm<br>(12,7)              | 350,mm<br>(14,1)   | 400 mm<br>(16'')   | 450 jm<br>(18'')                       | 500<br>(20'  | ښب<br>رې  | 550,mm<br>(22,'') | 600 mm<br>(24'')               | 700 m<br>(28, " | m) (           |
|          | 21.621   | DIMENSI<br>DISCHAR<br>ROCK DL | GE VEL             | DCITIES            | GREAT                                  |              |           |                   |                                |                 | (1)            |
| 1        | DEPART   | CI'I                          | Y OF               | AUSTI              | N<br>VELOPMENT R                       | EVIEW        |           | Si                | TANDAI<br>ENERG                | RD HE           | E A I<br>S S   |
| 1.117    | [2       | Sile (                        | Fard               | ha.                | 8/21<br>ADOP                           | 107          | RESP      | PONSIBIL          | CT/ENGIN<br>ITY FOR<br>STANDAF | APPROPI         | SUM<br>R1A     |
| 22-      |          |                               |                    |                    |  |              |           |                   |                                | - ricel         | _              |

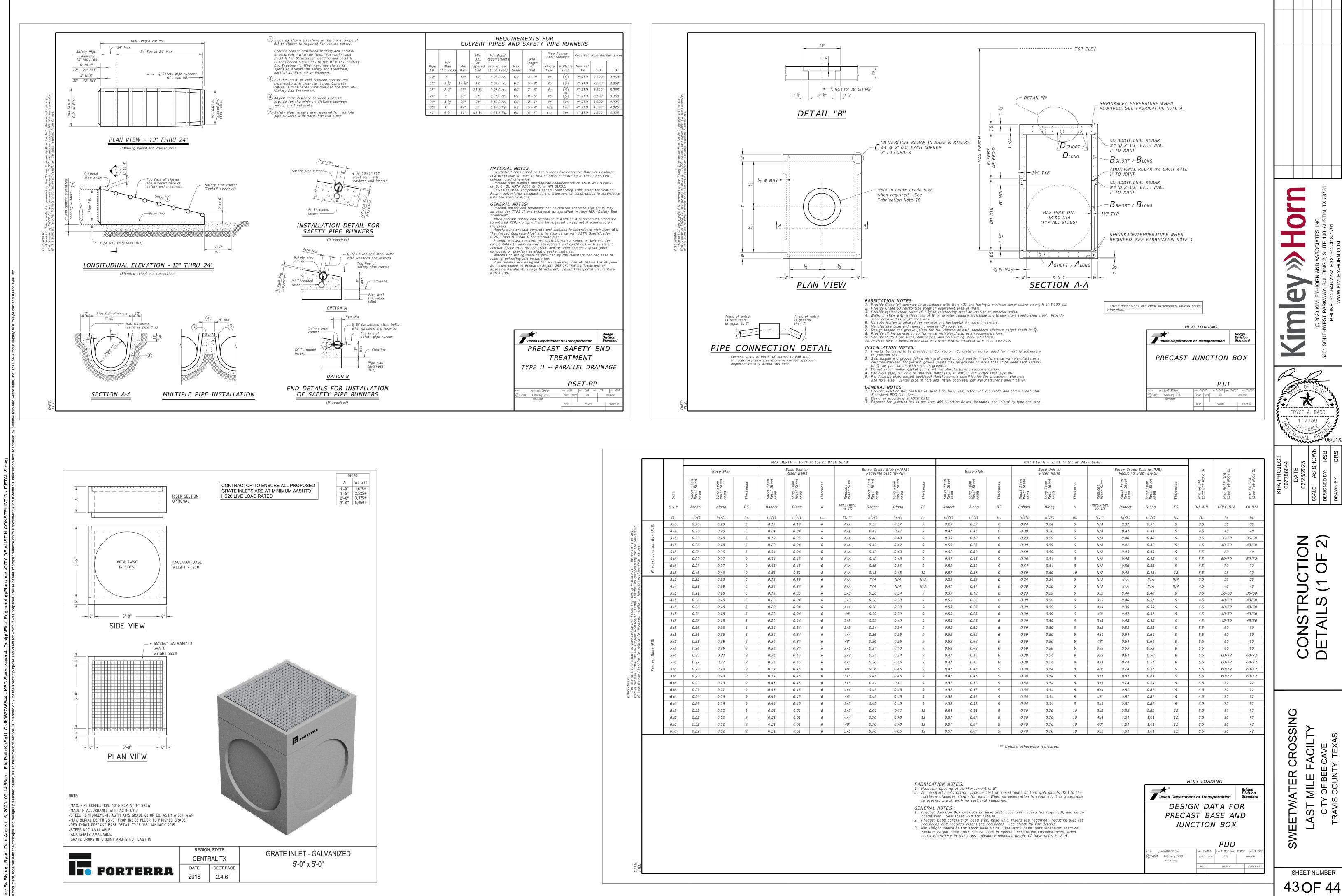






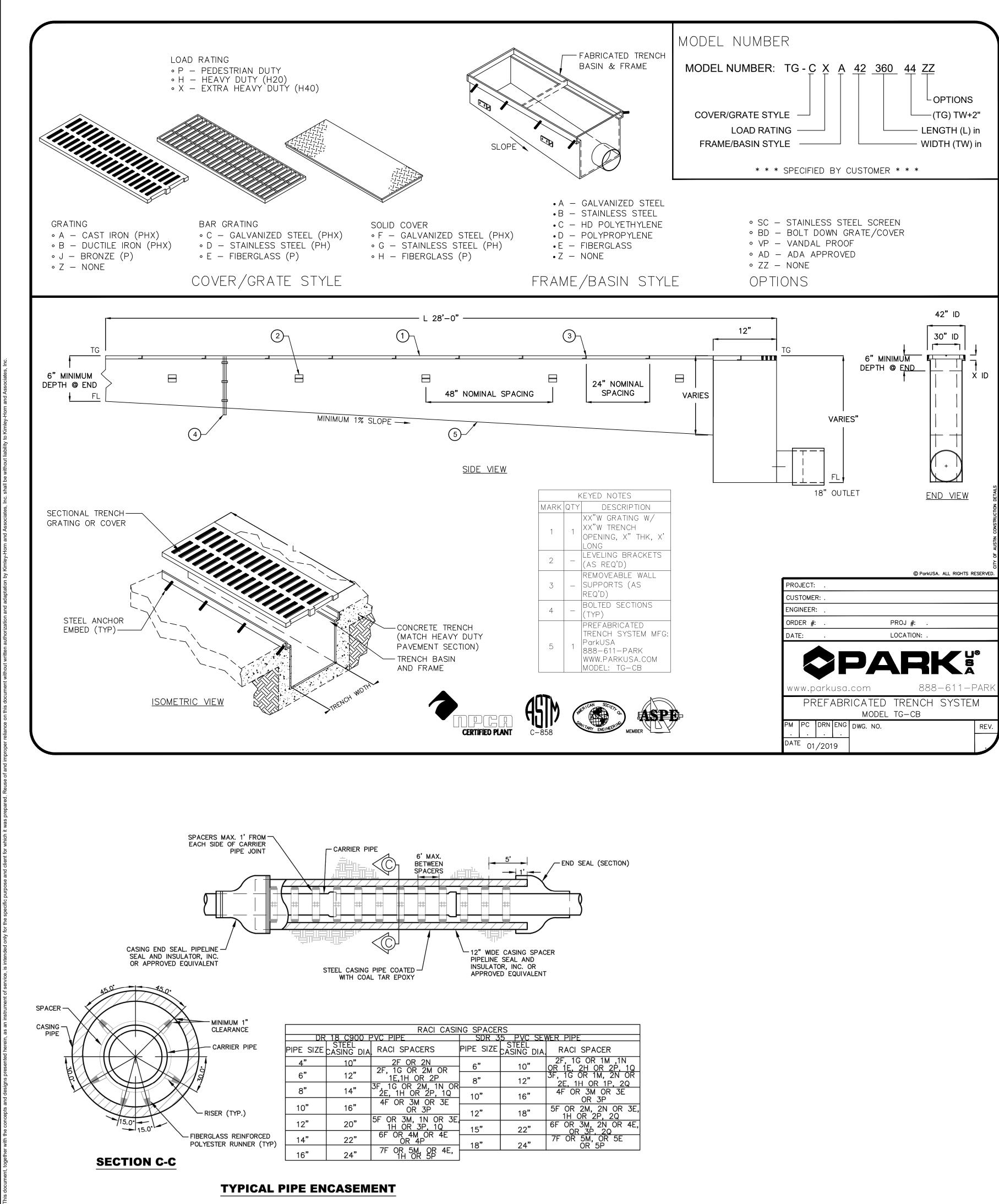
| 5<br>  |
|--|
| ST 6-m (20') OF DIVERSION<br>T TO EXCEED 1% GRADE  |
| EVEL SPREADER<br>TABILIZED SLOPE   |
| HANNEL GRADET OX   |
| EVEL SPREADER  |
|  |
| TAPLE REQUIREMENTS<br>TANDARD & SPECIFICATIONS<br>ROTECTIVE MATERIAL   |
| mm (6 <sup>24</sup> ) MIN: 2 <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup> <sup>10</sup>   |
| SUPERVISION OF THE   |
| UNIFORM SPREADING OF<br>EET FLOW).<br>SOIL (NOT ON FILL).<br>ND AT LEAST 150 mm (6'')<br>L WITH THE LIP. THIS<br>LEVEL LIP AND SHALL BE<br>THE UPPER EDGE IS FLUSH |
| CING 2 STRIPS OF JUTE,<br>SHOWN ABOVE.<br>FOR AT LEAST 6 m   |
| ONTO STABILIZED AREAS.<br>W THE POINT OF DISCHARGE.<br>PROVIDED.   |
| SPREADER   |
| STANDARD NO.   |
|  |

|             |  | © 2023 KIMLEY-HORN AND ASSOCIATES, INC. | 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735 | WWWW.KIMLEY-HORN.COM | TEXAS REGISTERED ENGINEERING FIRM F-928 NO. |
|-------------|--|---|---|----------------------|---|
| KHA PROJECT | DATE<br>DATE<br>02/23/2023<br>02/23/2023 | 739<br>NSE                              | DESIGNED BY: RSB 90 Kr 38                                       | DRAWN BY: CRS 7/10   | CHECKED BY: BAB 200                         |
|             |  | CONSIRUCTION                            |   |                      |   |
|             |  |   | CITY OF BEE CAVE  | TRAVIS COUNTY, TEXAS |   |
|             | <sup>SHEE<sup>-</sup></sup>              |   |   | R<br>4               |   |



|              |            | MAX DEPTH = 15 ft. to top of BASE SLAB |                       |           |                     |                             |       |                 |                    |                             | MAX DEPTH = 25 ft. to top of BASE SLAB  |  |  |   |   |   |  |                 |                        |                       |  |                               |                           |                          |
|--------------|------------|--|-----------------------|-----------|---------------------|-----------------------------|-------|-----------------|--------------------|-----------------------------|---|--|--|---|---|---|--|-----------------|------------------------|-----------------------|--|-------------------------------|---------------------------|--------------------------|
|              |            |  | Base Slab             |           |                     | Base Unit or<br>Riser Walls |       |                 |                    | Slab (w/PJB)<br>Slab (w/PB) |   |  | Base Slab Base Unit or<br>Riser Walls  |   |   |   | Below Grade Slab (w/PJB)<br>Reducing Slab (w/PB)                 |                 |                        |                       | (6 :                                       | e 2)                          | e 2)                      |                          |
|              |            | rt Span<br>If Steel                    | r Span<br>f Steel     | kness     | rt Span<br>If Steel | r Span<br>f Steel           | kness | r Size          | rt Span<br>f Steel | r Span<br>f Steel           | kness   | rt Span<br>If Steel  | f Steel  | kness   | rt Span<br>f Steel  | f Steel   | kness  | r Size          | rt Span<br>If Steel    | f Steel               | kness                                      | Height<br>: Gen Not           | HOLE DIA<br>Fab Note      | KO DIA<br>Fab Not        |
|              | Size       | Shoi<br>Rein<br>Areë                   | Long<br>Reinf<br>Area | Thick     | Shou<br>Rein        | Long<br>Reint<br>Area       | Thic  | RWSxRWL         | Shoi<br>Rein       | tong<br>Reinf<br>Area       | Thick   | Short<br>Reinf<br>Area   | Long<br>Reinf<br>Area  | Thic  | Shoi<br>Rein  | teint<br>Area   | Thic   | RWSxRWL         | Short<br>Reinf<br>Area | Long<br>Reind<br>Area | Thic                                       | Min<br>(See                   | Max<br>(See               | Max<br>(See              |
|              | X x Y      | Ashort<br>in²/ft                       | Along<br>in²/ft       | BS<br>in. | Bshort<br>in²/ft    | Blong<br>in²/ft             | in.   | or ID<br>ft. ** | Dshort<br>in²/ft   | Dlong<br>in²/ft             | TS<br>in.   | Ashort<br>in²/ft   | Along<br>in²/ft  | BS<br>in.   | Bshort<br>in²/ft  | Blong<br>in²/ft   | W<br>in.   | or ID<br>ft. ** | Dshort<br>in²/ft       | Dlong<br>in²/ft       | TS<br>in.                                  | BH MIN<br>ft.                 | HOLE DIA                  | KO DI<br>in.             |
| B)           | 3x3        | 0.23                                   | 0.23                  | 6         | 0.19                | 0.19                        | 6     | N/A             | 0.37               | 0.37                        | 9   | 0.29   | 0.29   | 6   | 0.24  | 0.24  | 6  | N/A             | 0.37                   | 0.37                  | 9  | 3.5                           | 36                        | 36                       |
| If d)        | 4x4        | 0.29                                   | 0.29                  | 6         | 0.24                | 0.24                        | 6     | N/A             | 0.41               | 0.41                        | 9   | 0.47   | 0.47   | 6   | 0.38  | 0.38  | 6  | N/A             | 0.41                   | 0.41                  | 9  | 4.5                           | 48                        | 48                       |
| Box          | 3x5        | 0.29                                   | 0.18                  | 6         | 0.19                | 0.35                        | 6     | N/A             | 0.48               | 0.48                        | 9   | 0.39   | 0.18   | 6   | 0.23  | 0.59  | 6  | N/A             | 0.48                   | 0.48                  | 9  | 3.5                           | 36/60                     | 36/60                    |
| tion         | 4x5        | 0.36                                   | 0.18                  | 6         | 0.22                | 0.34                        | 6     | N/A             | 0.42               | 0.42                        | 9   | 0.53   | 0.26   | 6   | 0.39  | 0.59  | 6  | N/A             | 0.42                   | 0.42                  | 9  | 4.5                           | 48/60                     | 48/60                    |
| Junc         | 5x5        | 0.36                                   | 0.36                  | 6         | 0.34                | 0.34                        | 6     | N/A             | 0.43               | 0.43                        | 9   | 0.62   | 0.62   | 6   | 0.59  | 0.59  | 6  | N/A             | 0.43                   | 0.43                  | 9  | 5.5                           | 60                        | 60                       |
| ast ,        | 5x6        | 0.27                                   | 0.27                  | 9         | 0.34                | 0.45                        | 6     | N/A             | 0.48               | 0.48                        | 9   | 0.47   | 0.45   | 9   | 0.38  | 0.54  | 8  | N/A             | 0.48                   | 0.48                  | 9  | 5.5                           | 60/72                     | 60/72                    |
| rece         | 6x6        | 0.27                                   | 0.27                  | 9         | 0.45                | 0.45                        | 6     | N/A             | 0.56               | 0.56                        | 9   | 0.52   | 0.52   | 9   | 0.54  | 0.54  | 8  | N/A             | 0.56                   | 0.56                  | 9  | 6.5                           | 72                        | 72                       |
| μ.           | 8x8        | 0.46                                   | 0.46                  | 9         | 0.51                | 0.51                        | 8     | N/A             | 0.45               | 0.45                        | 12  | 0.87   | 0.87   | 9   | 0.59  | 0.59  | 10   | N/A             | 0.45                   | 0.45                  | 12   | 8.5                           | 96                        | 72                       |
|              | 3x3        | 0.23                                   | 0.23                  | 6         | 0.19                | 0.19                        | 6     | N/A             | N/A                | N/A                         | N/A   | 0.29   | 0.29   | 6   | 0.24  | 0.24  | 6  | N/A             | N/A                    | N/A                   | N/A  | 3.5                           | 36                        | 36                       |
|              | 4x4        | 0.29                                   | 0.29                  | 6         | 0.24                | 0.24                        | 6     | N/A<br>3x3      | N/A                | N/A                         | N/A<br>9  | 0.47   | 0.47   | 6   | 0.38  | 0.38  | 6  | N/A<br>3x3      | N/A                    | N/A                   | N/A<br>9                                   | 4.5<br>3.5                    | 48                        | 48<br>36/60              |
|              | 3x5<br>4x5 | 0.29                                   | 0.18                  | 6         | 0.19                | 0.35                        | 6     | 3x3<br>3x3      | 0.30               | 0.34                        | 9   | 0.39<br>0.53   | 0.18<br>0.26   | 6   | 0.23  | 0.59  | 6  | 3x3<br>3x3      | 0.40                   | 0.40                  | 9  | 4.5                           | 48/60                     | 48/60                    |
|              | 4x5<br>4x5 | 0.36                                   | 0.18                  | 6         | 0.22                | 0.34                        | 6     | 4x4             | 0.30               | 0.30                        | 9   | 0.53   | 0.26   | 6   | 0.39  | 0.59  | 6  | 4x4             | 0.40                   | 0.37                  | 9  | 4.5                           | 48/60                     | 48/60                    |
|              | 4x5        | 0.36                                   | 0.18                  | 6         | 0.22                | 0.34                        | 6     | 48"             | 0.39               | 0.39                        | 9   | 0.53   | 0.26   | 6   | 0.39  | 0.59  | 6  | 48"             | 0.47                   | 0.47                  | 9  | 4.5                           | 48/60                     | 48/60                    |
|              | 4x5        | 0.36                                   | 0.18                  | 6         | 0.22                | 0.34                        | 6     | 3x5             | 0.33               | 0.40                        | 9   | 0.53   | 0.26   | 6   | 0.39  | 0.59  | 6  | 3x5             | 0.48                   | 0.48                  | 9  | 4.5                           | 48/60                     | 48/60                    |
|              | 5x5        | 0.36                                   | 0.36                  | 6         | 0.34                | 0.34                        | 6     | 3x3             | 0.34               | 0.34                        | 9   | 0.62   | 0.62   | 6   | 0.59  | 0.59  | 6  | 3x3             | 0.53                   | 0.53                  | 9  | 5.5                           | 60                        | 60                       |
|              | 5x5        | 0.36                                   | 0.36                  | 6         | 0.34                | 0.34                        | 6     | 4x4             | 0.36               | 0.36                        | 9   | 0.62   | 0.62   | 6   | 0.59  | 0.59  | 6  | 4x4             | 0.64                   | 0.64                  | 9  | 5.5                           | 60                        | 60                       |
| ( <i>B</i> o | 5x5        | 0.38                                   | 0.38                  | 6         | 0.34                | 0.34                        | 6     | 48"             | 0.36               | 0.36                        | 9   | 0.62   | 0.62   | 6   | 0.59  | 0.59  | 6  | 48"             | 0.64                   | 0.64                  | 9  | 5.5                           | 60                        | 60                       |
| se (P        | 5x5        | 0.36                                   | 0.36                  | 6         | 0.34                | 0.34                        | 6     | 3x5             | 0.34               | 0.40                        | 9   | 0.62   | 0.62   | 6   | 0.59  | 0.59  | 6  | 3x5             | 0.53                   | 0.53                  | 9  | 5.5                           | 60                        | 60                       |
| Ba           | 5x6        | 0.31                                   | 0.31                  | 9         | 0.34                | 0.45                        | 6     | 3x3             | 0.34               | 0.34                        | 9   | 0.47   | 0.45   | 9   | 0.38  | 0.54  | 8  | 3x3             | 0.61                   | 0.50                  | 9  | 5.5                           | 60/72                     | 60/72                    |
| cast         | 5x6        | 0.27                                   | 0.27                  | 9         | 0.34                | 0.45                        | 6     | 4x4             | 0.36               | 0.45                        | 9   | 0.47   | 0.45   | 9   | 0.38  | 0.54  | 8  | 4x4             | 0.74                   | 0.57                  | 9  | 5.5                           | 60/72                     | 60/72                    |
| Pre          | 5x6        | 0.29                                   | 0.29                  | 9         | 0.34                | 0.45                        | б     | 48"             | 0.36               | 0.45                        | 9   | 0.47   | 0.45   | 9   | 0.38  | 0.54  | 8  | 48"             | 0.74                   | 0.57                  | 9  | 5.5                           | 60/72                     | 60/72                    |
|              | 5x6        | 0.29                                   | 0.29                  | 9         | 0.34                | 0.45                        | 6     | 3x5             | 0.45               | 0.45                        | 9   | 0.47   | 0.45   | 9   | 0.38  | 0.54  | 8  | 3x5             | 0.61                   | 0.61                  | 9  | 5.5                           | 60/72                     | 60/72                    |
|              | 6x6        | 0.29                                   | 0.29                  | 9         | 0.45                | 0.45                        | 6     | 3x3             | 0.41               | 0.41                        | 9   | 0.52   | 0.52   | 9   | 0.54  | 0.54  | 8  | 3x3             | 0.74                   | 0.74                  | 9  | 6.5                           | 72                        | 72                       |
|              | 6x6        | 0.27                                   | 0.27                  | 9         | 0.45                | 0.45                        | 6     | 4x4             | 0.45               | 0.45                        | 9   | 0.52   | 0.52   | 9   | 0.54  | 0.54  | 8  | 4x4             | 0.87                   | 0.87                  | 9  | 6.5                           | 72                        | 72                       |
|              | 6x6        | 0.29                                   | 0.29                  | 9         | 0.45                | 0.45                        | 6     | 48"             | 0.45               | 0.45                        | 9   | 0.52   | 0.52   | 9   | 0.54  | 0.54  | 8  | 48"             | 0.87                   | 0.87                  | 9  | 6.5                           | 72                        | 72                       |
|              | 6x6        | 0.29                                   | 0.29                  | 9         | 0.45                | 0.45                        | 6     | 3x5             | 0.45               | 0.45                        | 9   | 0.52   | 0.52   | 9   | 0.54  | 0.54  | 8  | 3x5<br>3x3      | 0.87                   | 0.87                  | 9<br>12                                    | 6.5<br>8.5                    | 72<br>96                  | 72                       |
|              | 8x8<br>8x8 | 0.52                                   | 0.52                  | 9         | 0.51                | 0.51                        | 8     | 3x3<br>4x4      | 0.70               | 0.61                        | 12<br>12  | 0.91   | 0.91   | 9   | 0.70  | 0.70  | 10   | 4x4             | 1.01                   | 1.01                  | 12   | 8.5                           | 96                        | 72                       |
|              | 8x8        | 0.52                                   | 0.52                  | 9         | 0.51                | 0.51                        | 8     | 48"             | 0.70               | 0.70                        | 12  | 0.87   | 0.87   | 9   | 0.70  | 0.70  | 10   | 48"             | 1.01                   | 1.01                  | 12   | 8.5                           | 96                        | 72                       |
|              | 8x8        | 0.52                                   | 0.52                  | 9         | 0.51                | 0.51                        | 8     | 3x5             | 0.70               | 0.85                        | 12  | 0.87   | 0.87   | 9   | 0.70  | 0.70  | 10   | 3x5             | 1.01                   | 1.01                  | 12   | 8.5                           | 96                        | 72                       |
|              |            |  |                       |           |                     |                             |       |                 |                    |                             | FABRICA   | TION NOTES   | ç.   | ** Ur   | less otherwis   | e indicated.  |  |                 |                        |                       |  | HL93 LOAD                     | DING                      |                          |
|              |            |  |                       |           |                     |                             |       |                 |                    |                             | <ol> <li>Maximu</li> <li>At manimu<br/>maximu<br/>to prov</li> <li>GENERAL</li> <li>Precast<br/>grades</li> <li>Precast<br/>require</li> <li>Min Hei<br/>Smallei</li> </ol> | m spacing of<br>ffacturer's op<br>m diameter sl<br>ide a wall wit<br>NOTES:<br>Junction Box<br>slab. See she<br>Base consist<br>d), and reduc<br>ght shown is<br>height base | reinforcement<br>tion, provide o<br>nown for each<br>h no sectional<br>consists of b<br>et PJB for de<br>s of base sla<br>ed risers (as<br>for stock bas<br>units can be u | cast or core<br>. When no p<br>l reduction.<br>pase slab, ba<br>tails.<br>b, base unit,<br>required). S<br>e units. Use<br>ised in spec | nenetration is<br>nse unit, risers<br>risers (as re<br>See sheet PB i<br>stock base u<br>ial installation | n wall panels (<br>required, it is<br>(as required)<br>quired), reduci<br>for details.<br>nits whenever<br>circumstances<br>ase units is 2' | acceptable<br>, and below<br>ng slab (as<br>practical.<br>; when |                 |                        | Тте                   | xas Departm<br>DESI<br>PRECA               | AST BA                        | ATA FO<br>ASE AN<br>N BOX | ID                       |
|              |            |  |                       |           |                     |                             |       |                 |                    |                             |   |  |  |   |   |   |  |                 |                        |                       | std10-20.dgn<br>February 2020<br>REVISIONS | DN: TxDOT<br>CONT SEC<br>DIST | COUNTY                    | xDOT ck<br>HIGHW,<br>SHE |

|             |           |      |                           |   |   |                      | NO. RI                                  |
|-------------|-----------|------|---------------------------|---|---|----------------------|---|
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|             |           | RYCE | OF<br>E A.<br>F773<br>VAL | RET BAR                                 | R<br>R<br>06  | /01/2                | 2023                                    |
| KHA PROJECT | 067786844 | DATE | 6202162120                | SCALE: AS SHOWN                         | DESIGNED BY: RSB  | DRAWN BY: CRS        | СНЕСКЕД ВУ: ВАВ                         |
|             |           |      | こうして                      |   |   |                      |   |
|             |           |      | I AST MILE FACILTY        |   | CITY OF BEE CAVE  | TRAVIS COUNTY, TEXAS |   |



|                          |                                      |   |   |                      | BΥ                                      |
|--------------------------|--------------------------------------|---|---|----------------------|---|
|                          |                                      |   |   |                      | DATE                                    |
|                          |                                      |   |   |                      | REVISIONS                               |
|                          |                                      |   |   |                      | NO                                      |
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|                          | RYCE A<br>BRYCE A<br>1477<br>SSIONAL | 7.E.H.<br>A. BAF<br>7.39<br>VSE<br>E.N. | 75<br>75<br>77<br>77<br>77<br>77<br>70<br>6                     | /01/2                | 2023                                    |
| KHA PROJECT<br>067786844 | DATE<br>02/23/2023                   | SCALE: AS SHOWN                         | DESIGNED BY: RSB  | DRAWN BY: CRS        | снескер ву: ВАВ                         |
|                          | CONSTRUCTION                         |   |   |                      |   |
|                          |                                      |   | CITY OF BEE CAVE  | TRAVIS COUNTY, TEXAS |   |
| 4                        | SHEET<br>4 C                         | )F                                      |   | R<br>4               |   |