

CONTRIBUTING ZONE PLAN

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

Prepared For:

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***SECTION 1:
EDWARDS AQUIFER APPLICATION
COVER PAGE***

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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 Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

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

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

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

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

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

1. Regulated Entity Name: Sweetwater Crossing Last Mile Facility				2. Regulated Entity No.:					
3. Customer Name: Velocis Bee Cave JV, LP				4. Customer No.:					
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification		Extension		Exception			
6. Plan Type: (Please circle/check one)	<input type="checkbox"/> WPAP	<input checked="" type="checkbox"/> CZP	<input type="checkbox"/> SCS	<input type="checkbox"/> UST	<input type="checkbox"/> AST	<input type="checkbox"/> EXP	<input type="checkbox"/> EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	<input type="checkbox"/> Residential		<input checked="" type="checkbox"/> Non-residential		8. Site (acres):		23.19-acres (17.96-acres within Contributing Zone)		
9. Application Fee:	\$6,500		10. Permanent BMP(s):		On-Site: Extended Detention Pond, Sand Filter Basin, Bioretention Basing				
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):		N/A				
13. County:	Travis		14. Watershed:		Little Barton Creek				

Application Distribution

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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.	
Bryce Barr, P.E.	
Print Name of Customer/Authorized Agent <i>B. Barr</i>	07/12/2023
Signature of Customer/Authorized Agent	Date

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

***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: 07/12/2023

Signature of Customer/Agent:



Regulated Entity Name: Sweetwater Crossing Last Mile Facility

Project Information

1. County: Travis
2. Stream Basin: Little Barton Creek
3. Groundwater Conservation District (if applicable): Southwestern Travis County Groundwater Conservation District (SWTCGCD)
4. Customer (Applicant):
Contact Person: Paul Smith
Entity: Velocis Bee Cave JV, LP
Mailing Address: 300 Crescent Court, Suite 850
City, State: Dallas, Texas Zip: 75201
Telephone: (214) 702 - 0220 Fax: N/A
Email Address: paul.smith@velocis.com

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. 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. 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:

Project site boundaries.

USGS Quadrangle Name(s).

10. Attachment C - Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

Area of the site

Offsite areas

Impervious cover

Permanent BMP(s)

Proposed site use

Site history

Previous development

Area(s) to be demolished

11. Existing project site conditions are noted below:

Existing commercial site

- Existing industrial site
- Existing residential site
- Existing paved and/or unpaved roads
- Undeveloped (Cleared)
- Undeveloped (Undisturbed/Not cleared)
- Other: _____

12. The type of project is:

- Residential: # of Lots: _____
- Residential: # of Living Unit Equivalents: _____
- Commercial
- Industrial
- Other: _____

13. Total project area (size of site): 23.19 Acres

Total disturbed area: 17.96 Acres

14. Estimated projected population: 696 (maximum occupancy)

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

1. Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
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 Cover	490,921	÷ 43,560 =	11.269

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:

- TXDOT road project.
- County road or roads built to county specifications.
- City thoroughfare or roads to be dedicated to a municipality.
- Street or road providing access to private driveways.

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

- Concrete
- Asphalt concrete pavement
- Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.

Width of R.O.W.: _____ feet.

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

21. Pavement Area:

Length of R.O.W.: _____ feet.

Width of R.O.W.: _____ feet.

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

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ 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. 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 Travis County MUD No. 1-A Treatment Plant. The treatment facility is:

Existing.

Proposed.

N/A

Permanent Aboveground Storage Tanks (ASTs) \geq 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

<i>AST Number</i>	<i>Size (Gallons)</i>	<i>Substance to be Stored</i>	<i>Tank Material</i>
1			
2			
3			
4			
5			

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):

3. Table 3 - Secondary Containment

<i>Length (L)(Ft.)</i>	<i>Width(W)(Ft.)</i>	<i>Height (H)(Ft.)</i>	<i>L x W x H = (Ft3)</i>	<i>Gallons</i>

Total: _____ Gallons

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 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.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

34. 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. 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. 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. Locations where soil stabilization practices are expected to occur.
42. Surface waters (including wetlands).
 N/A
43. 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. 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: Article 20.04 Nonpoint Source Pollution Control for the City of Bee Cave, TX was used to design the sedimentation and filtration pond. Due to the City of Bee Cave TSS removal requirement of 95%, the TCEQ TGM requirements of 80% are being met with this design.
- 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 multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing

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

- Attachment 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.
 - The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
 - The site will not be used for multi-family residential developments, schools, or small business sites.
52. Attachment J - BMPs for Upgradient Stormwater.
- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
 - No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
53. Attachment K - BMPs for On-site Stormwater.
- A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
 - Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
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
 - 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.

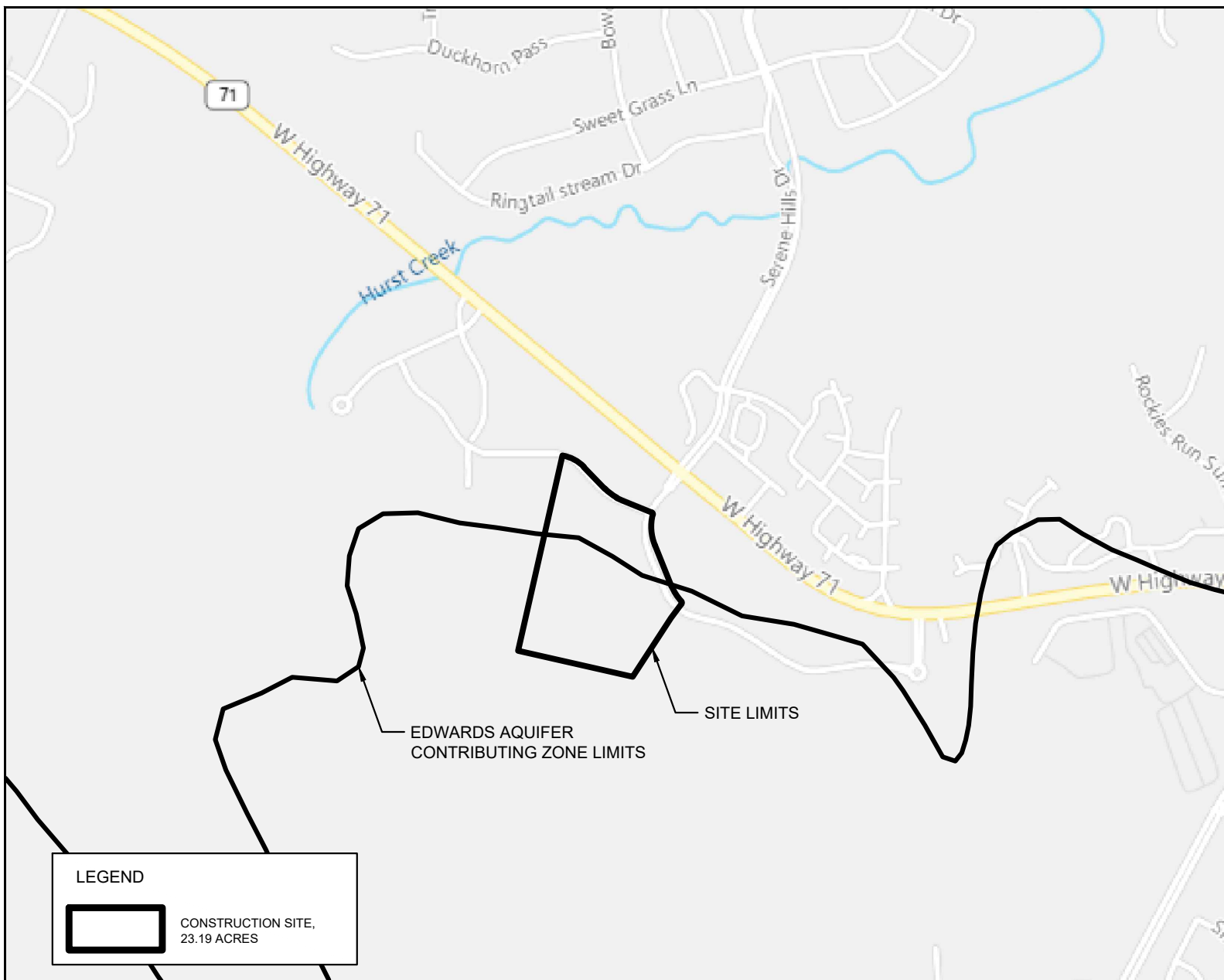
Administrative Information

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

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.

ROAD MAP

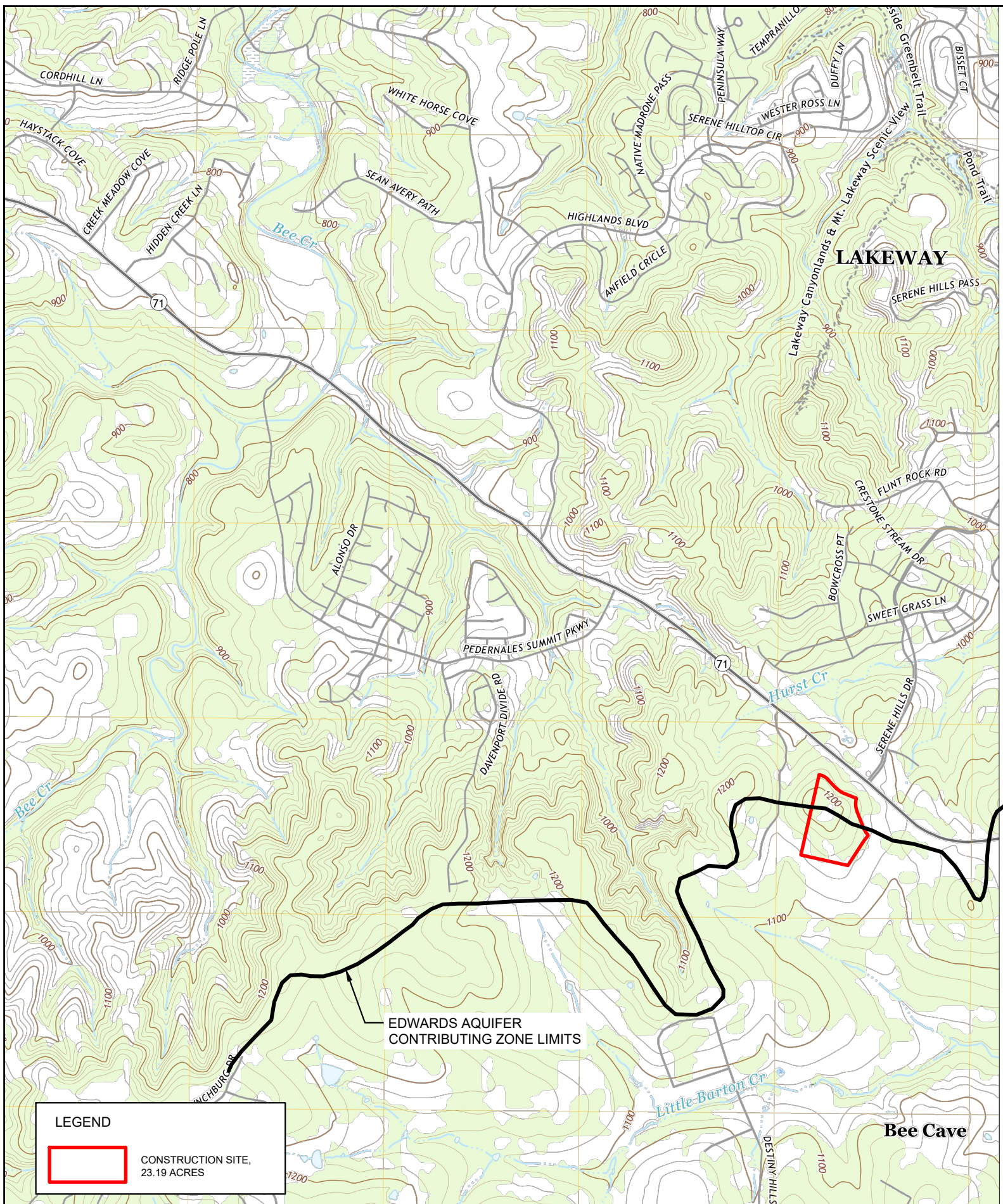


DIRECTIONS FROM TCEQ HEADQUARTERS TO PROJECT SITE:

1. GET ON I-35 S FROM PARK 35 CIR AND S INTERSTATE 35 FRONTAGE RD.
2. TURN RIGHT ONTO PARK 35 CIR.
3. TURN RIGHT ONTO N INTERSTATE 35 FRONTAGE RD.
4. USE THE LEFT LANE TO TAKE THE RAMP ONTO I-35 S.
5. TAKE EXIT 235A TOWARD 15TH ST.
6. TURN RIGHT ONTO E 15TH ST.
7. CONTINUE STRAIGHT ONTO ENFIELD RD.
8. TURN LEFT ONTO WINSTED LN.
9. SLIGHT LEFT TO MERGE ONTO TX-1 LOOP S.
10. TAKE THE EXIT TOWARD US-290 E/TX-71 E/SOUTHWEST PKWY.
11. TURN RIGHT ONTO SOUTHWEST PKWY.
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 1	DATE	04/25/2023	ROAD MAP	SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS		Kimley»Horn <small>5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100. AUSTIN, TX 78735 PHONE: 512-646-2237 WWW.KIMLEY-HORN.COM © 2021 KIMLEY-HORN AND ASSOCIATES, INC. TBPE Firm No. F-928</small>
	DESIGN	RSB				
	DRAWN	RSB				
	CHECKED	BAB				
	KHA NUMBER	067786844				

USGS QUADRANGLE MAP



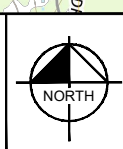
LEGEND

 CONSTRUCTION SITE, 23.19 ACRES

SHEET NUMBER	DATE	04/25/2023
1	DESIGN	RSB
	DRAWN	RSB
	CHECKED	BAB
KHA NUMBER		067786844

USGS Quadrangle Map
 Quad Name: Shingle Hills, TX

SWEETWATER CROSSING LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS



Kimley Horn

5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100,
 AUSTIN, TX 78735
 PHONE: 512-646-2237
 WWW.KIMLEY-HORN.COM
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 TBPE Firm No. F-928

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 within 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

(Not Applicable)

ALTERNATIVE SECONDARY CONTAINMENT STRUCTURE DESIGN ROAD MAP

(Not Applicable)

AST CONTAINMENT STRUCTURE DRAWINGS

(Not Applicable)

20% OR LESS IMPERVIOUS COVER WAIVER

(Not Applicable)

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: 75201
Telephone: (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  Date 8.14.23

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

By:  Date 07/12/2023
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. 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: Onion Creek; and Colorado River.

Temporary Best Management Practices (TBMPs)

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

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

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

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

Soil Stabilization Practices

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

17. Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices. A schedule of the interim and permanent soil stabilization practices for the site is attached.
18. Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

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

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.

**SWEETWATER CROSSING LAST MILE FACILITY
CONTRIBUTING ZONE PLAN**

- 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 (1.82 Acres)
 4. Rough Subgrade Preparation (earthwork, grading, street and drainage excavation and embankment) (1.82 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 (1.19 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 down-gradient sides of the property to prevent silt from escaping the construction area. A temporary construction entrance will be placed at the site entry/exit point to reduce tracking onto adjoining streets. A construction staging area will be used onsite to perform all vehicle maintenance and for equipment and material storage. A concrete truck washout pit will be placed on site to provide containment and easier cleanup of waste from concrete operations. The location of all structural temporary BMP's are shown on the 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 where 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:

**SWEETWATER CROSSING LAST MILE FACILITY
CONTRIBUTING ZONE PLAN**

- 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.

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

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

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

Personnel provided by the permittee must inspect:

- disturbed areas of the construction site that have not been finally stabilized;
- areas used for storage of materials that are exposed to precipitation;
- structural controls (for evidence of, or the potential for, 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).

**SWEETWATER CROSSING LAST MILE FACILITY
CONTRIBUTING ZONE PLAN**

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

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

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

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

Corrective Action

Personnel Responsible for Corrective Actions

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

Corrective Action Forms

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

Schedule of Interim and Permanent Soil Stabilization

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

1. Hydraulic Mulch and Seeding: Disturbed areas subject to erosion shall be stabilized with hydraulic mulch and/or seeded and watered to provide interim stabilization. For areas that are not to be sodded as per the project landscaping plan, a minimum of 85% vegetative cover will be established to provide permanent stabilization.
2. Sodding and Wood Mulch: As per the project landscaping plan, Sodding and wood mulch will be applied to landscaped areas to provide permanent stabilization prior to project completion.

Records of the following shall be maintained:

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

Stabilization measures must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, and except as provided in the following, must be initiated no more 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 14th day after construction activity temporarily or permanently ceased is precluded by snow cover or frozen ground conditions, stabilization measures must be initiated as soon as practical.

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

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

Maintenance

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

- All measures will be maintained in good working order. The operator should correct any damage or deficiencies as soon as practicable after the inspection, but in no case later than seven (7) calendar days after the inspection.
- BMP Maintenance (as applicable)
- Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Drainage swale will be inspected and repaired as necessary.
- Inlet control will be inspected and repaired as necessary.
- Check dam will be inspected and repaired as necessary.

**SWEETWATER CROSSING LAST MILE FACILITY
CONTRIBUTING ZONE PLAN**

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

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

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

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

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

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

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

Amendment Log

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Construction Activity Sequence Log

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

*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 Date	Removal Date

Stabilization Activities Log

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

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.

Rain Gauge Log

Date	Location of Rain Gauge	Gauge Reading

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

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

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

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

Contractor or Subcontractor Certification and Signature

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

Signature of Contractor or Subcontractor: _____ Date:

Printed Name and Affiliation: _____

Certification and Signature by Permittee

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

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

Printed Name and Affiliation: _____

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

Section A – Initial Report
(Complete this section within 24 hours of discovering the condition that triggered corrective action)

Name of Project	Tracking No.	Today's Date
Date Problem First Discovered		Time Problem First Discovered
Name and Contact Information of Individual Completing this Form		
<p>What site conditions triggered the requirement to conduct corrective action:</p> <input type="checkbox"/> A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3 <input type="checkbox"/> The stormwater controls that have been installed and maintained are not effective enough for the discharge to meet applicable water quality standards <input type="checkbox"/> A prohibited discharge has occurred or is occurring		
Provide a description of the problem:		
Deadline for completing corrective action (<i>Enter date that is either: (1) no more than 7 calendar days after the date you discovered the problem, or (2) if it is infeasible to complete work within the first 7 days, enter the date that is as soon as practicable following the 7th day</i>):		
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
(Complete this section no later than 7 calendar days after discovering the condition that triggered corrective action)

Section B.1 – Why the Problem Occurred

Cause(s) of Problem (Add an additional sheet if necessary)	How This Was Determined and the Date You Determined the Cause
1.	1.
2.	2.
3.	3.

Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem

List of Stormwater Control Modification(s) Needed to Correct Problem (Add an additional sheet if necessary)	Completion Date	SWPPP Update Necessary?	Notes
1.		<input type="checkbox"/> Yes <input type="checkbox"/> No Date:	
2.		<input type="checkbox"/> Yes <input type="checkbox"/> No Date:	
3.		<input type="checkbox"/> Yes <input type="checkbox"/> No Date:	

Contractor or Subcontractor Certification and Signature

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

Signature of Contractor or Subcontractor: _____ Date:

Printed Name and Affiliation: _____

Certification and Signature by Permittee

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

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

Printed Name and Affiliation: _____

***SECTION 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 L. Raftery
Authorized Signatory

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

I _____
Paul Smith
Print Name

Vice President
Title - Owner/President/Other

of _____
Velocis Bee Cave JV, LP
Corporation/Partnership/Entity Name

have authorized _____
Bryce Barr, P.E.
Print Name of Agent/Engineer

of _____
Kimley-Horn and Associates, Inc.
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

Paul Smith

Applicant's Signature

7.17.23

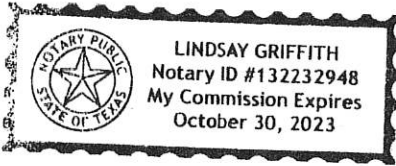
Date

THE STATE OF TX §

County of Dallas §

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 17 day of July, 2023



Lindsay Griffith Coker
NOTARY PUBLIC

Lindsay Griffith Coker
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10.30.23

Application Fee Form



Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Sweetwater Crossing Last Mile Facility
 Regulated Entity Location: 16900 Cross Peak Drive Bee Cave, TX 78738
 Name of Customer: Velocis Bee Cave JV, LP Contact Person: Paul Smith
 Phone: (214) 702-0220 Customer Reference Number (if issued): _____
 Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

- Hays Travis Williamson

San Antonio Regional Office (3362)

- Bexar Medina Uvalde
 Comal Kinney

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

- Austin Regional Office San Antonio Regional Office
 Mailed to: TCEQ - Cashier Overnight Delivery to: TCEQ - Cashier
 Revenues Section 12100 Park 35 Circle
 Mail Code 214 Building A, 3rd Floor
 P.O. Box 13088 Austin, TX 78753
 Austin, TX 78711-3088 (512)239-0357

Site Location (Check All That Apply):

- Recharge Zone Contributing Zone Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	N/A Acres	\$ 0
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	N/A Acres	\$ 0
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	23.19 Acres	\$ 6,500
Sewage Collection System	N/A L.F.	\$ 0
Lift Stations without sewer lines	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

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

2. Contributing Zone Plans and Modifications

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

3. Organized Sewage Collection Systems and Modifications

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

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

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

5. Exception Requests

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

6. Extension of Time Requests

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

Check Payable to the "Texas Commission on
Environmental Quality"

Core Data Form



TCEQ Core Data Form

TCEQ Use Only

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)		_____	
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).				
6. Customer Legal Name (If an individual, print last name first: e.g.: Doe, John)			If new Customer, enter previous Customer below:	
_____			_____	
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)	
_____	_____	_____	_____	
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other: _____		
12. Number of Employees		13. Independently Owned and Operated?		
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input type="checkbox"/> Yes <input type="checkbox"/> No		
14. Customer Role (Proposed or Actual) - as it relates to the Regulated Entity listed on this form. Please check one of the following:				
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other: _____				
15. Mailing Address:	_____			
	City	_____	State	_____
	ZIP	75201	ZIP + 4	_____
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)	
_____			_____	
18. Telephone Number		19. Extension or Code	20. Fax Number (if applicable)	
(972) 974 - 6178		_____	(_____) _____ - _____	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If "New Regulated Entity" is selected below this form should be accompanied by a permit application)	
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	

23. Street Address of the Regulated Entity: (No PO Boxes)							
	City		State		ZIP	78738	ZIP + 4
24. County							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City				State			Nearest ZIP Code	78738
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 (5 or 6 digits)		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.)

34. Mailing Address:							
	City		State		ZIP	78738	ZIP + 4
35. E-Mail Address:							
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.


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

SECTION IV: Preparer Information

40. Name:				41. Title:	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512)-900-4151		() -			

SECTION V: Authorized Signature

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

Company:		Job Title:	
Name (In Print):		Phone:	(512)-900-4151
Signature: 		Date:	07/12/2023

APPLICATION DATE: 02/23/2023

EXISTING USE: UNDEVELOPED

PROPOSED USE: DISTRIBUTION FACILITY / PARKING LOT - NONCOMMERCIAL

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

DOWNSREAM 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:

- 1. THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY... 2. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA... 3. AS PART OF THIS SITE PLAN, THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO BE ON SITE AT ALL TIMES... 4. THIS SITE IS NOT LOCATED WITHIN THE 100-YEAR OR 500-YEAR FLOODPLAIN PER FEMA FIRM MAP NO. 48453C0385J... 5. THERE ARE NO KNOWN CRITICAL ENVIRONMENTAL FEATURES ON THIS SITE... 6. THIS SITE IS OVER THE EDWARDS AQUIFER CONTRIBUTING ZONE AS DEFINED AND REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY... 7. 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... 8. NO STRUCTURES CAN BE BUILT WITHIN WATER & WASTEWATER EASEMENTS... 9. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE U.S. SAFE DRINKING WATER ACT... 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... 11. 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

- ADMINISTRATION. (OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE... 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... 14. CONTRACTOR SHALL RESTORE ALL SIGNS AND PAVEMENT MARKINGS TO EXISTING CONDITIONS FOLLOWING THE COMPLETION OF CONSTRUCTION... 15. CONTACT LCRA AT 512-578-2324 FOR THE REQUIRED PRE-CONSTRUCTION MEETING... 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... 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...

INDEMNIFICATION NOTE: THE ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY...

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...

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...

LEGAL DESCRIPTION LOT 7, BLOCK "A", OF SWEETWATER CROSSING PHASE TWO, FINAL PLAT, AN ADDITION IN TRAVIS COUNTY, TEXAS...

LAZY NINE MUD

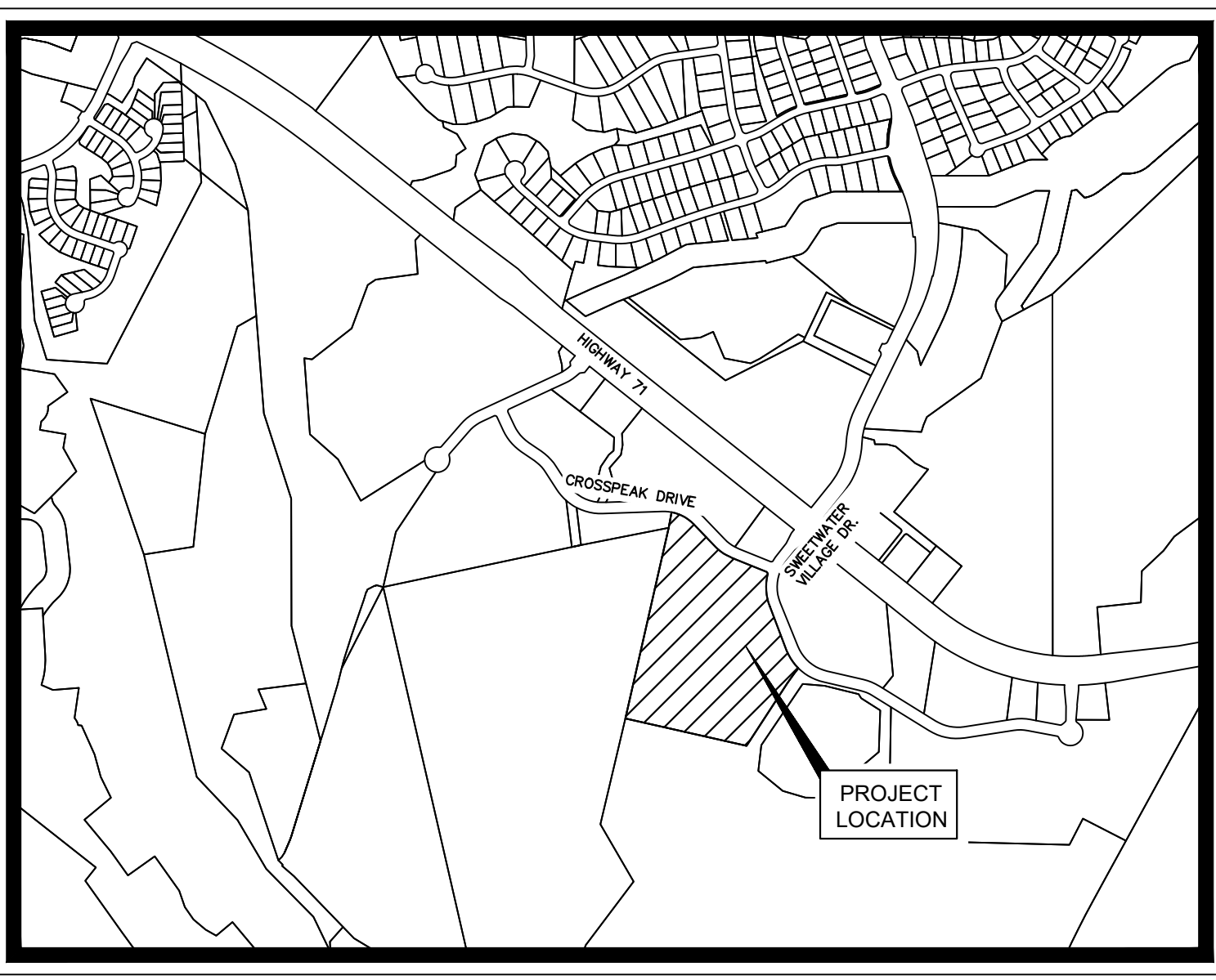
LAZY NINE MUD 1A EMAIL: DENNISL@MALONEWHEELER.COM PHONE: (512) 899-0601 CONTACT: DENNIS LOZANO

LAZY NINE MUD OPERATOR

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

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.

CIVIL SITE DEVELOPMENT PLANS FOR SWEETWATER CROSSING LAST MILE FACILITY 16900 CROSS PEAK DRIVE BEE CAVE, TX 78738



VICINITY MAP SCALE: 1" = 1,000'

FEBRUARY 2023

ENGINEER Kimley»Horn

5301 SOUTHWEST PARKWAY BUILDING 2, SUITE 100 AUSTIN, TEXAS 78735 PH (512) 646-2237 CONTACT BRYCE BARR, PE TEXAS REGISTRATION NO. F-928

LANDSCAPE ARCHITECT

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

SURVEYOR

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

ARCHITECT

LAZY NINE MUNICIPAL UTILITY DISTRICT 1A DISTRICT ENGINEER

DEVELOPER

KBC ADVISORS 2828 N HARWOOD ST., SUITE 1900 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

SHEET INDEX

Table with 2 columns: Sheet Number, Sheet Title. Lists sheets 1 through 25 including Cover Sheet, General Notes, Final Plat, etc.

Table with 2 columns: Sheet Number, Sheet Title. Lists sheets 26 through 44 including Erosion Control Details, Storm Sewer Plan, etc.

TRAVIS COUNTY ESD NO. 6 table with columns: DESIGN STANDARDS, CONSTRUCTION CLASSIFICATION, OCCUPANCY CLASSIFICATION, etc.

TRAVIS COUNTY REVISION BLOCK:

Table for revision block with columns: No., Revision Description, Reviewed By, Date.

BENCHMARKS

Table with 2 columns: BM #, Description. Lists benchmarks BM #101 and BM #102.



Table for revisions with columns: NO, REVISIONS, DATE, BY.

Kimley»Horn logo and contact information: 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735.

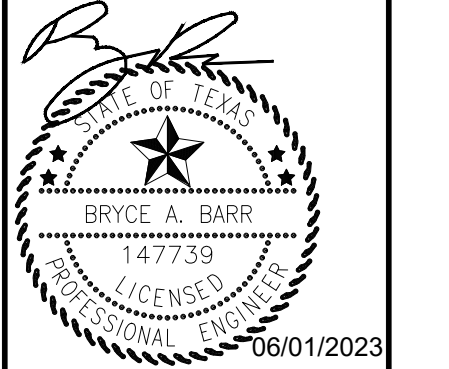


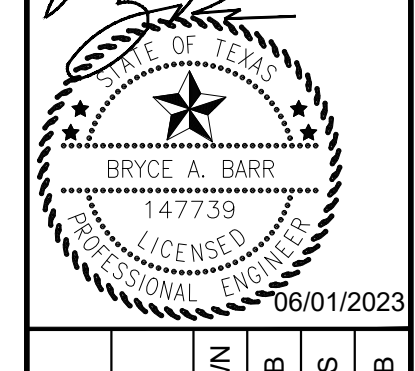
Table with project details: KHA PROJECT, DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY.

COVER SHEET

SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS

Plotted By: bslatop, Ryan Date: August 15, 2023 09:00:22am File Path: K:\SASU_Civil\067786844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet1 COVER SHEET.dwg

General Notes for Sweetwater Crossing construction project. Includes sections for: KH GENERAL NOTES, OVERALL, EROSION CONTROL, STORM WATER DISCHARGE AUTHORIZATION, RETAINING WALLS, PAVING, DEMOLITION, GRADING, WATER AND WASTEWATER, and APPROPRIATE TREE PRESERVATION. The notes specify construction standards, safety protocols, and material requirements in accordance with local, state, and federal regulations.



Project information: RHA PROJECT 06778864, DATE 09/23/2023, SCALE AS SHOWN, DESIGNED BY: RSB, DRAWN BY: CRS, CHECKED BY: BAB. Includes a north arrow and project title 'SWEETWATER CROSSING'.

Project location: SWEETWATER CROSSING, LAST MILE FACILITY, CITY OF BEE CAE, TRAVIS COUNTY, TEXAS. SHEET NUMBER 3 OF 44.

Table with 2 columns: REVISIONS, NO. Contains revision tracking information.

Table with 2 columns: NO., DATE. Contains revision dates.

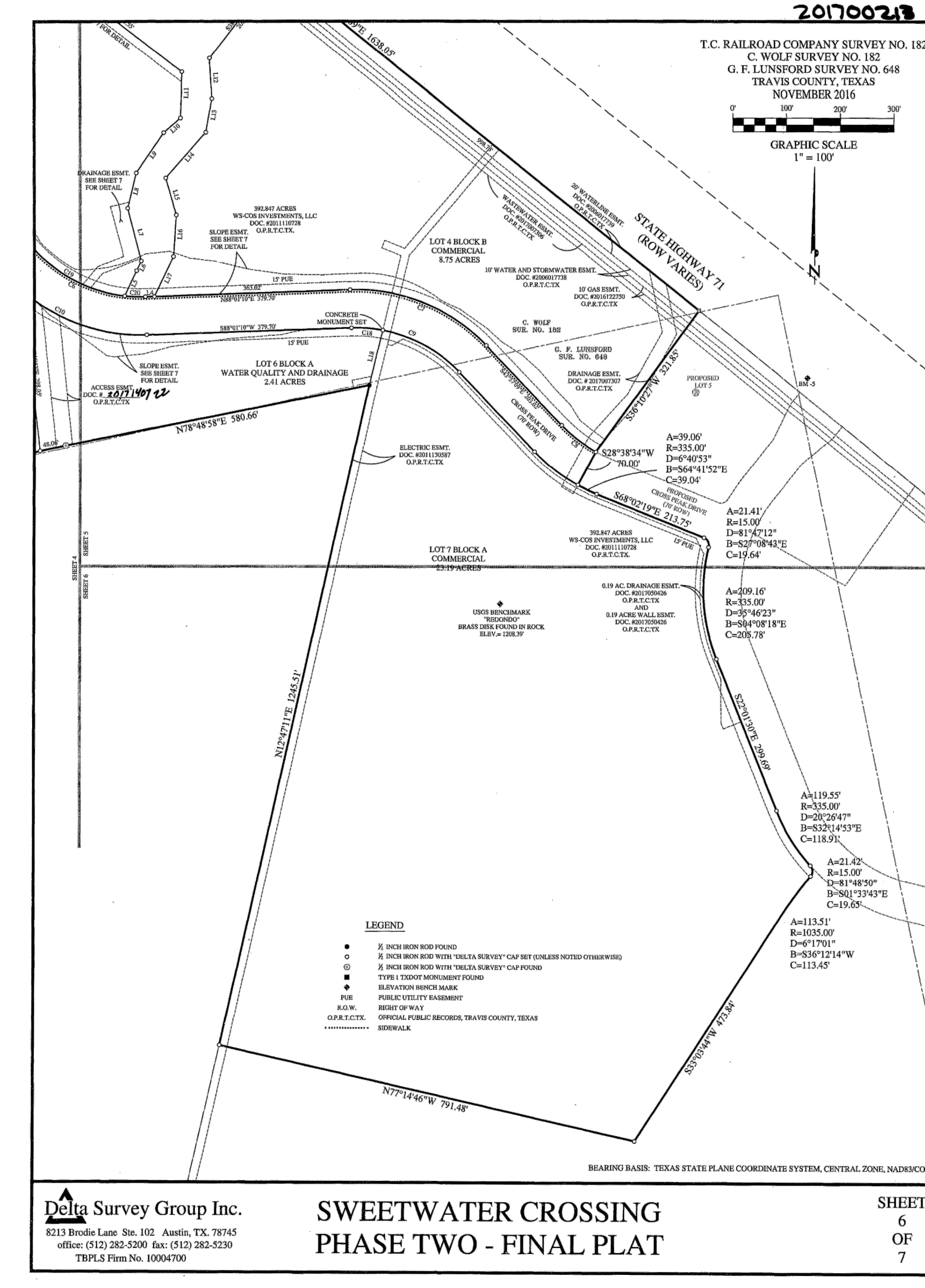
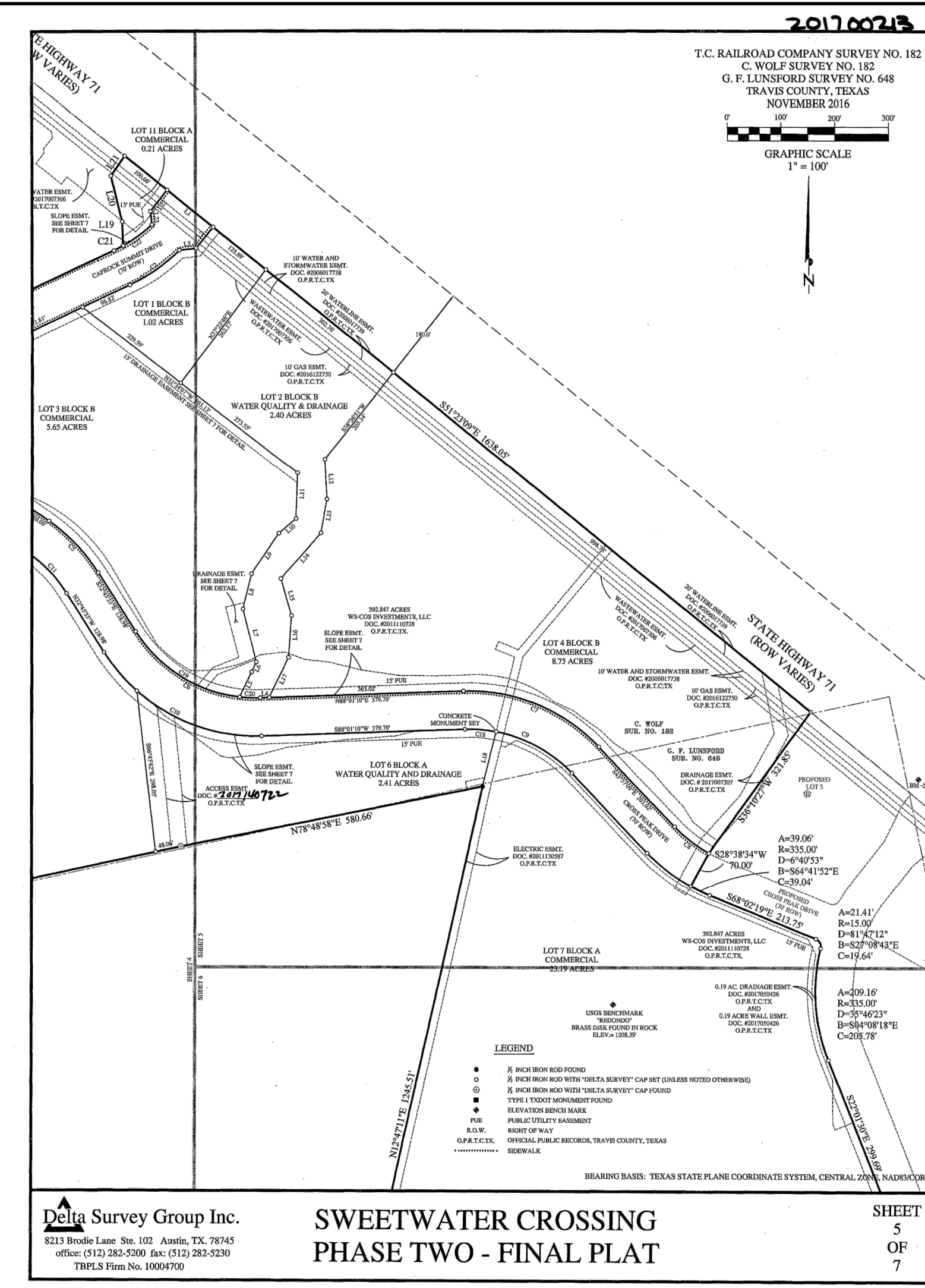
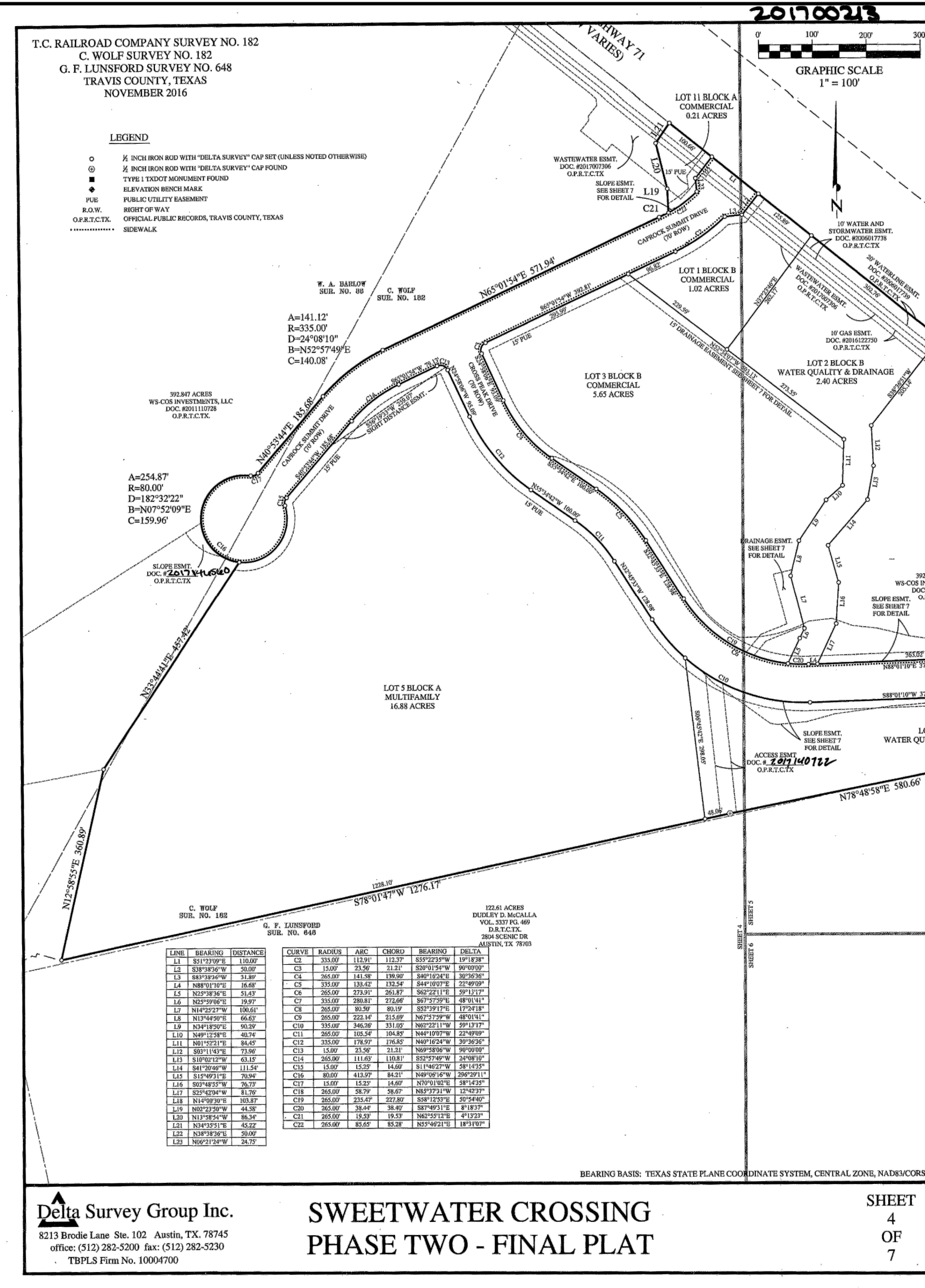
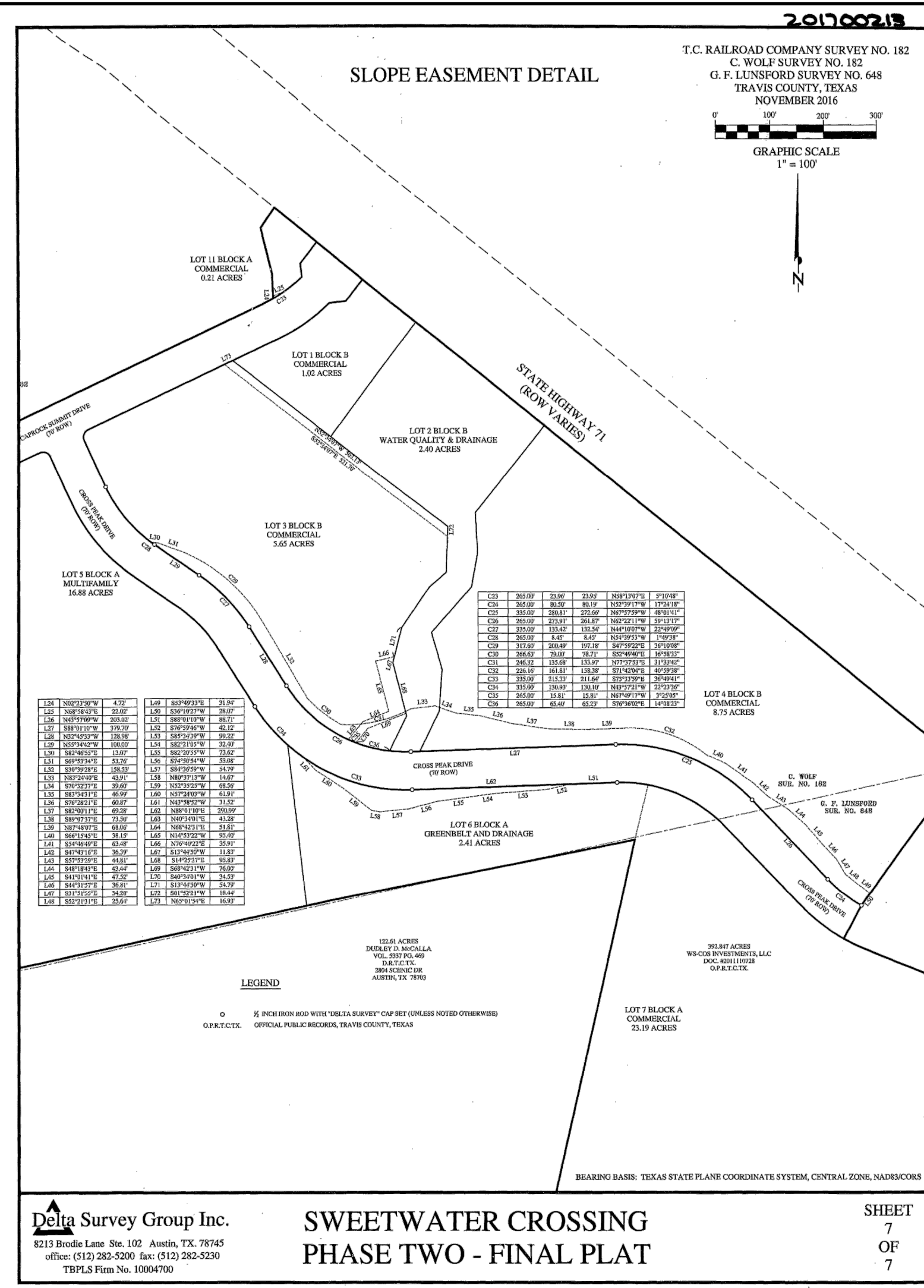
Table with 2 columns: NO., DATE. Contains revision dates.

Table with 2 columns: NO., DATE. Contains revision dates.

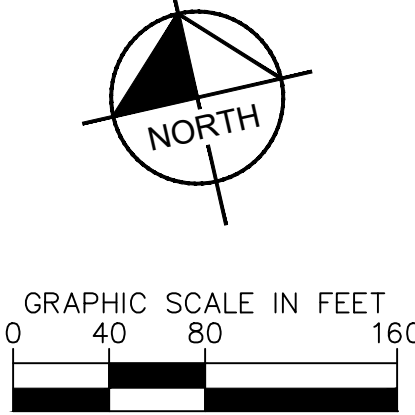
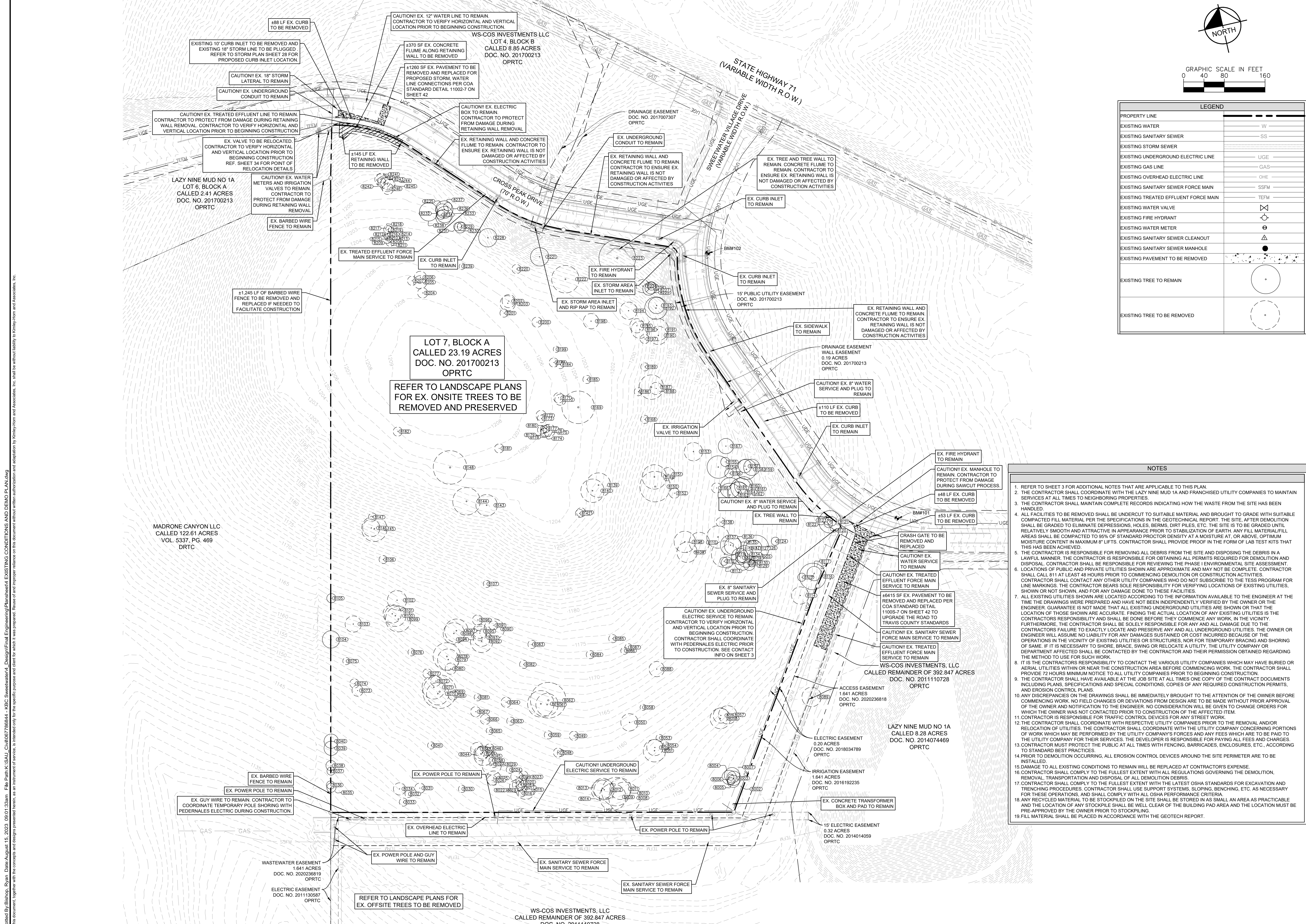
Table with 2 columns: NO., DATE. Contains revision dates.

Vertical text on the left margin: Printed by Bishop, Ryan Date: August 15, 2023 09:30:38am File Path: K:\ASU-CM\00778864-KBC-Sweetwater_Crossing\Final Engineering\PlanSheet\GENERAL NOTES.dwg

Plotted by: slp, Ryan Date: August 15, 2023 09:00:53am File Path: K:\SAL_Civil\067786844 - KBC Sweetwater - Design\Final Engineering\Phase2\FINAL PLAT.dwg
 This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any proposal or design on this document without authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



KHA PROJECT 067786844		DATE 02/23/2023		SCALE AS SHOWN		DESIGNED BY RSB		DRAWN BY CRS		CHECKED BY BAB	
KIMLEY-HORN & ASSOCIATES, INC.		1477359		PROFESSIONAL ENGINEER		STATE OF TEXAS		SINCE 1917		1477359	
© 2023 KIMLEY-HORN AND ASSOCIATES, INC.		5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735		PHONE: 512-646-2237 FAX: 512-418-1791		WWW.KIMLEY-HORN.COM		TEXAS REGISTERED ENGINEERING FIRM F-928		NO. _____	
REVISIONS		DATE		BY							
SWEETWATER CROSSING		LAST MILE FACILITY		CITY OF BEE CAVE		TRAVIS COUNTY, TEXAS		SHEET NUMBER		5 OF 44	
FINAL PLAT (2 OF 2)											



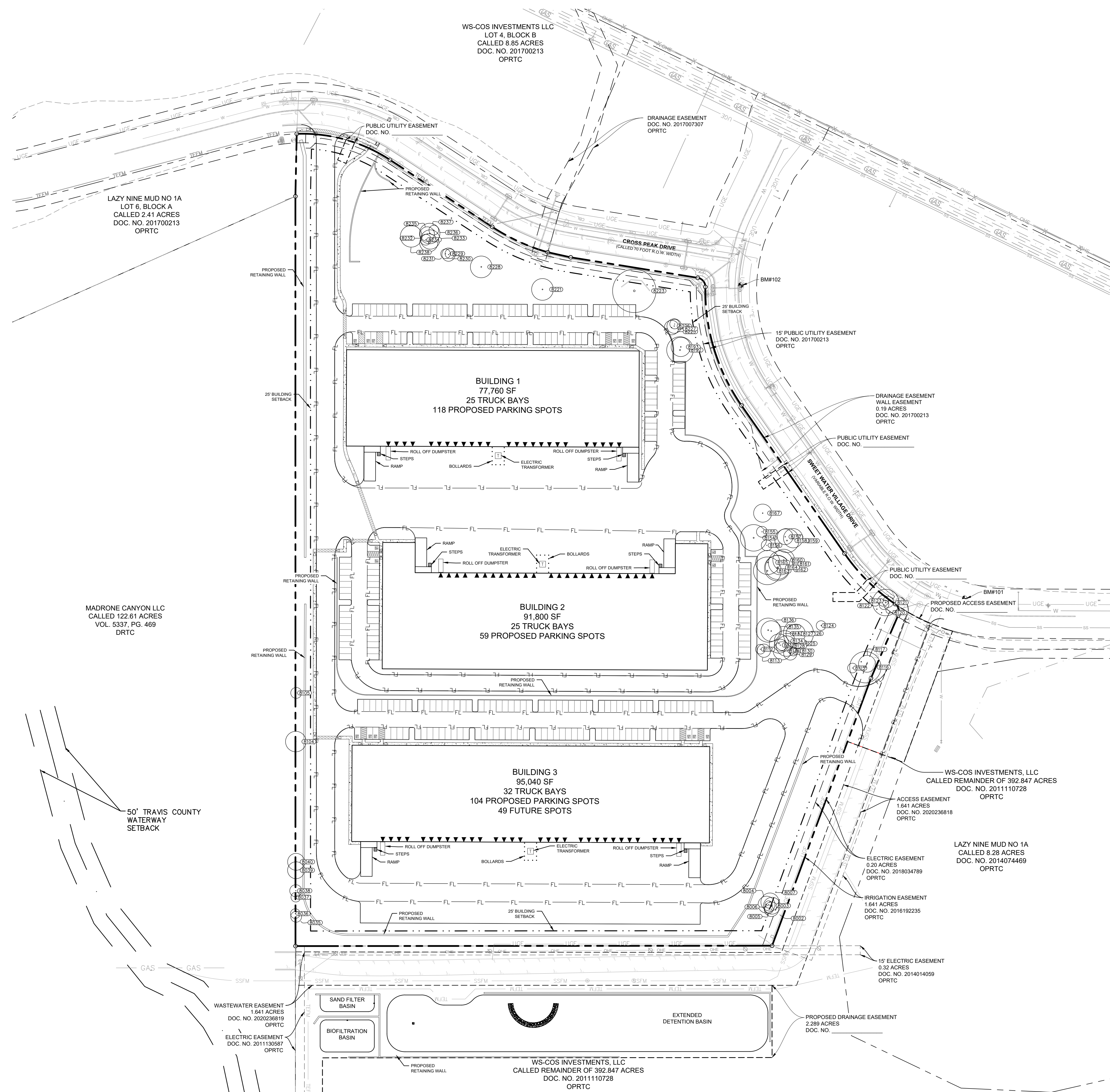
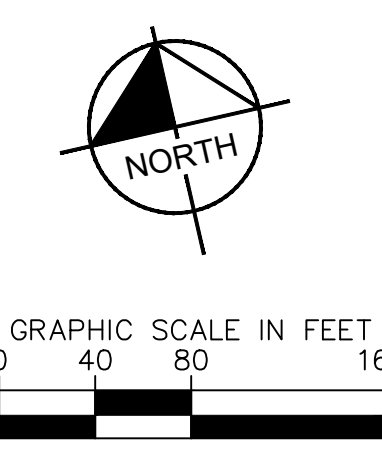
LEGEND	
PROPERTY LINE	---
EXISTING WATER	W
EXISTING SANITARY SEWER	SS
EXISTING STORM SEWER	SSS
EXISTING UNDERGROUND ELECTRIC LINE	UGE
EXISTING GAS LINE	GAS
EXISTING OVERHEAD ELECTRIC LINE	OHE
EXISTING SANITARY SEWER FORCE MAIN	SSFM
EXISTING TREATED EFFLUENT FORCE MAIN	TEFM
EXISTING WATER VALVE	⊗
EXISTING FIRE HYDRANT	⊙
EXISTING WATER METER	⊙
EXISTING SANITARY SEWER CLEANOUT	⊙
EXISTING SANITARY SEWER MANHOLE	⊙
EXISTING PAVEMENT TO BE REMOVED	⊙
EXISTING TREE TO REMAIN	⊙
EXISTING TREE TO BE REMOVED	⊙

- NOTES**
- REFER TO SHEET 3 FOR ADDITIONAL NOTES THAT ARE APPLICABLE TO THIS PLAN.
 - THE CONTRACTOR SHALL COORDINATE WITH THE LAZY NINE MUD 1A AND FRANCHISED UTILITY COMPANIES TO MAINTAIN SERVICES AT ALL TIMES TO NEIGHBORING PROPERTIES.
 - THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS INDICATING HOW THE WASTE FROM THE SITE HAS BEEN HANDLED.
 - ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT. THE SITE AFTER DEMOLITION SHALL BE GRADED TO ELIMINATE DEPRESSIONS, HOLES, BERMS, DIRT PILES, ETC. THE SITE IS TO BE GRADED UNTIL RELATIVELY SMOOTH AND ATTRACTIVE IN APPEARANCE PRIOR TO STABILIZATION OF EARTH. ANY FILL MATERIAL/FILL AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE AT OR ABOVE OPTIMUM MOISTURE CONTENT IN MAXIMUM 8" LIFTS. CONTRACTOR SHALL PROVIDE PROOF IN THE FORM OF LAB TEST KITS THAT THIS HAS BEEN ACHIEVED.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE PHASE I ENVIRONMENTAL SITE ASSESSMENT.
 - LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TESS PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
 - ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE THEY COMMENCE ANY WORK. IN THE VICINITY THEREAFTER, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND 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, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING 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.
 - 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. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS.
 - ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
 - CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
 - THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE DEVELOPER IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
 - CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. ACCORDING TO STANDARD BEST PRACTICES.
 - PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AROUND THE SITE PERIMETER ARE TO BE INSTALLED.
 - DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
 - ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICABLE AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE OWNER PRIOR TO STOCKPIILING.
 - FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECH REPORT.

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	NO.	DATE	BY
	NO.	DATE	BY
	NO.	DATE	BY
<p>EXISTING CONDITIONS AND DEMO PLAN</p>			
<p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p>			
<p>SHEET NUMBER 6 OF 44</p>			

Plotted By: blabop, Ryan Date: August 15, 2023 09:01:33am File Path: K:\S\AU_Civil\07786844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet4 - EXISTING CONDITIONS AND DEMO PLAN.dwg
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LEGEND	
PROPERTY BOUNDARY	---
PROPOSED FIRE LANE	FL FL
PROPOSED PARKING COUNT (SEE KEYNOTE LEGEND THIS SHEET)	⬡ ⬢ ⬣
PROPOSED ACCESSIBLE PARKING SPACE	♿
PROPOSED BARRIER FREE RAMP	▭
EXISTING SANITARY SEWER MANHOLE	⊙
EXISTING FIRE HYDRANT	⊕
EXISTING POWER POLE	⊙
EXISTING SANITARY SEWER LINE	—WW—
EXISTING WATER LINE	—W—

SITE DATA TABLE	
GROSS AREA (SF)	PROPOSED 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	
USE	INDUSTRIAL
REQUIREMENTS	MIN. 1/5000 SF, MAX. 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

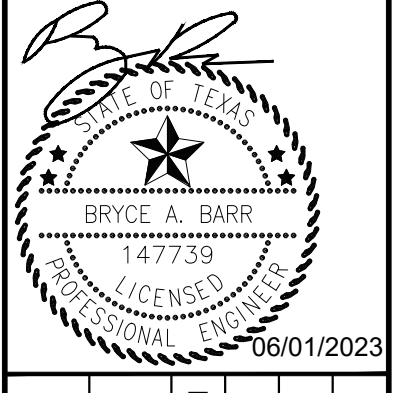
BUILDING DATE TABLE	
USE	INDUSTRIAL
NO. OF BUILDINGS	3
NO. OF STORIES	1
HEIGHT	32'
SQUARE FOOTAGE	264,600

BENCHMARKS	
BM #101	PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, 4690' 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, 438' SOUTH OF CROSS PEAK DRIVE CENTERLINE. ELEV=1157.662' (NAVD '88)



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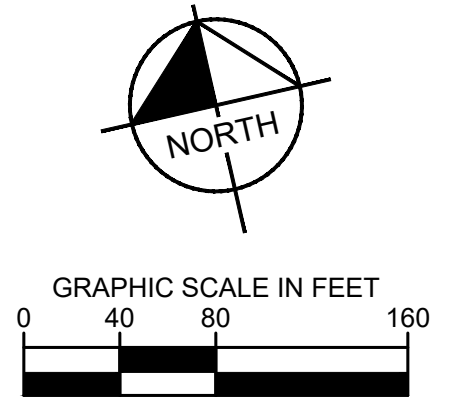
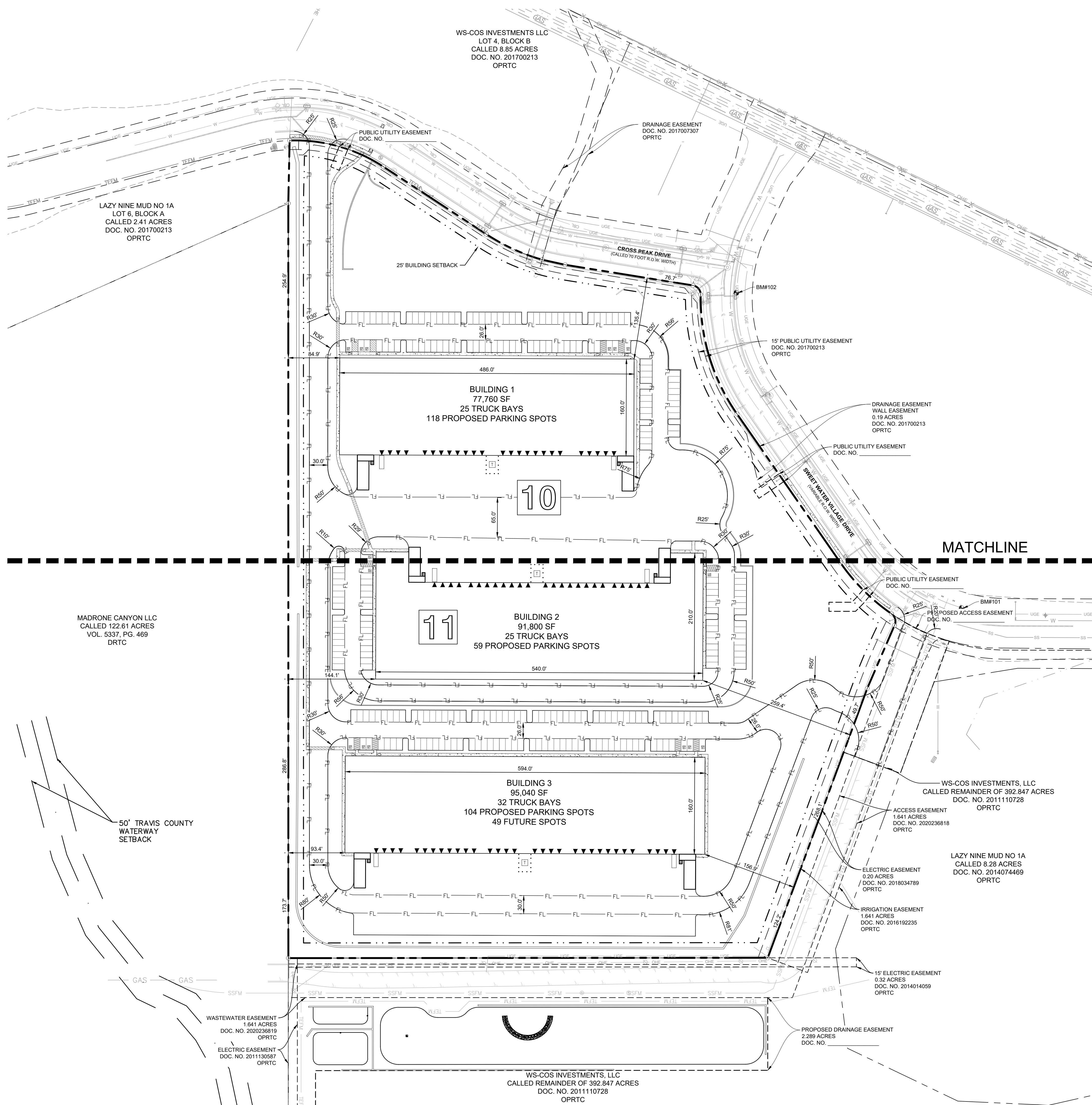


KHA PROJECT	067786844	DATE	02/23/2023	SCALE	AS SHOWN	DESIGNED BY:	RSB	CRS	CHECKED BY:	BAB
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OVERALL SITE PLAN

**SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS**

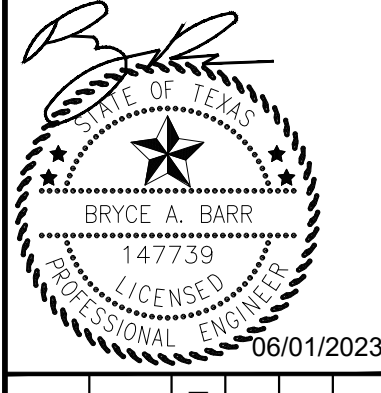
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DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY:	RSB
DRAWN BY:	CRS
CHECKED BY:	BAB

OVERALL DIMENSION CONTROL PLAN

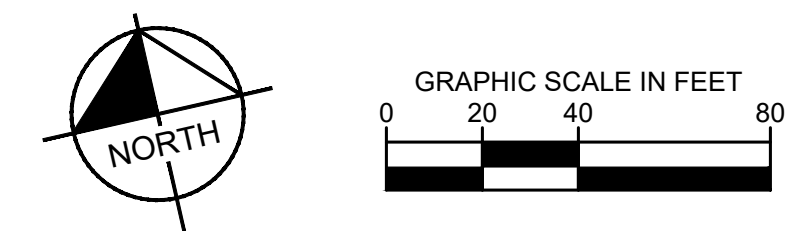
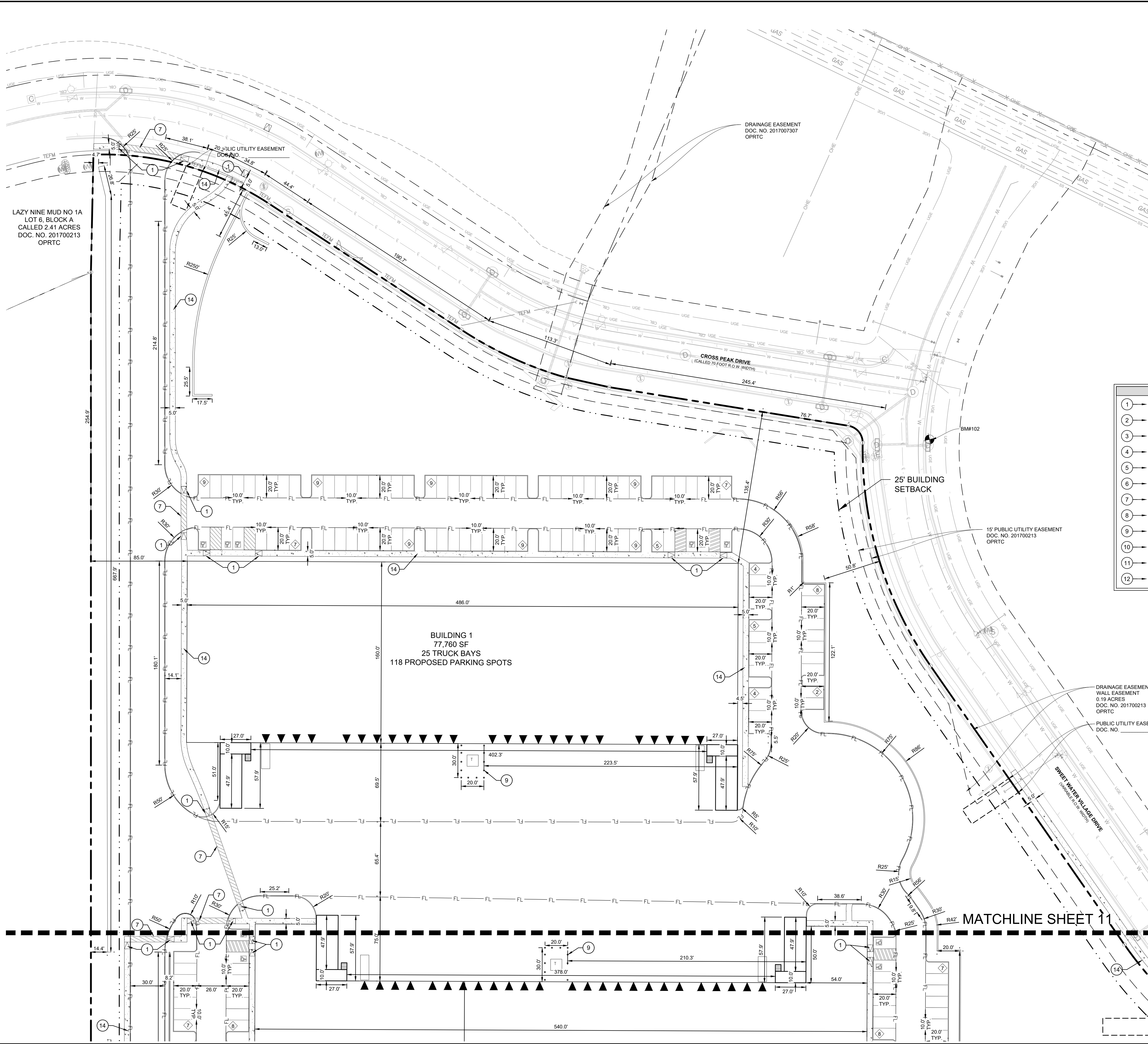
SWEETWATER CROSSING
LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS



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. ELEV=1157.662' (NAVD '88)

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LEGEND	
PROPERTY BOUNDARY	---
PROPOSED FIRE LANE	FL FL
PROPOSED PARKING COUNT (SEE KEYNOTE LEGEND THIS SHEET)	⊠ ⊡ ⊢
PROPOSED ACCESSIBLE PARKING SPACE	♿
PROPOSED BARRIER FREE RAMP	▭
EXISTING SANITARY SEWER MANHOLE	⊙
EXISTING FIRE HYDRANT	⊕
EXISTING POWER POLE	⊖

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

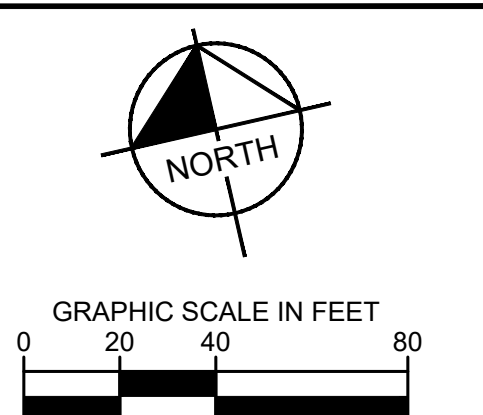
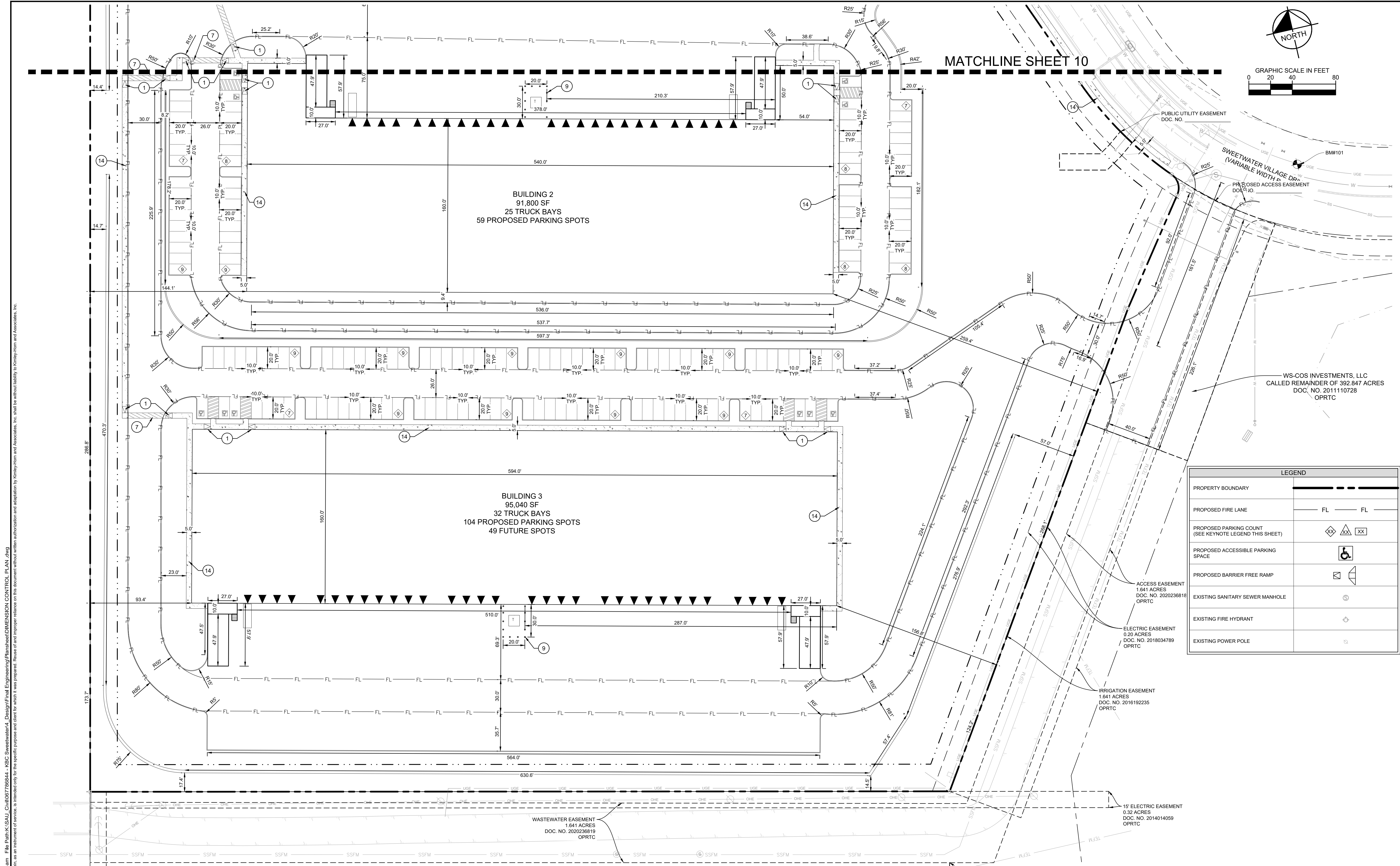
- NOTES**
- ALL DIMENSIONS ARE FROM THE FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS NOTED OTHERWISE.
 - REFER TO ARCHITECTURAL AND STRUCTURAL CONSTRUCTION DRAWINGS FOR EXACT BUILDING AND PARKING GARAGE DIMENSIONS. REFER TO LANDSCAPE ARCHITECT'S PLANS FOR DIMENSIONS AND DETAIL OF HARDSCAPE.
 - BUILDING, MECHANICAL EQUIPMENT AND SIGNS ARE SHOWN HEREON FOR REFERENCE ONLY. REFER TO CONSTRUCTION PLANS OF THOSE ITEMS FOR LOCATIONS AND DIMENSIONS.
 - ALL CONSTRUCTION SPECIFICATIONS WITHIN CITY RIGHT-OF-WAY AND EASEMENTS SHALL COMPLY WITH THE AHJ STANDARDS. PRIOR APPROVAL TO USE ANY NON-STANDARD MATERIAL IS REQUIRED.
 - ALL SIDEWALKS, CURBS, RAMPS, AND DRIVE APPROACHES IN THE RIGHT OF WAY SHALL BE IN COMPLIANCE WITH CURRENT TEXAS ACCESSIBILITY STANDARDS AND THE AHJ DESIGN STANDARDS PRIOR TO FINAL INSPECTION APPROVAL.
 - REFER TO SIGNAGE AND STRIPING PLAN FOR SITE SIGNAGE AND WAYFINDING DESIGN STANDARDS.
 - ALL RADII ARE 3 FT UNLESS OTHERWISE LABELED.
 - RETAINING WALLS TO BE DESIGN BUILD BY CONTRACTOR. CONTRACTOR WILL BE REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR PROPOSED WALLS. ALL WALL FACADES ARE SUBJECT TO SWEETWATER DRC APPROVAL.
 - CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND FINAL GEOTECH REPORT FOR BUILDING SUB GRADE PREPARATION REQUIREMENTS.
 - CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR CARPORT AND DUMPSTER ENCLOSURE CONSTRUCTION SPECIFICATIONS.
 - CONTRACTOR SHALL REFER TO M.E.P. AND LANDSCAPE PLANS FOR CONDUIT PLACEMENT PRIOR TO PAVING.
 - RETAINING WALL MATERIAL AND TYPE SHALL BE APPROVED BY THE OWNER.
 - COORDINATE INFORMATION FOR RETAINING WALLS ARE LOCATED AT THE FACE OF THE EXPOSED WALL AT GROUND SURFACE ELEVATIONS.

BENCHMARKS

BM #101	PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, 4690' 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, 438' SOUTH OF CROSS PEAK DRIVE CENTERLINE. ELEV=1157.662' (NAVD '88)



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	<p>DIMENSION CONTROL PLAN (1 OF 2)</p> <p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p>			
<p>KHA PROJECT: 067786844 DATE: 02/23/2023 SCALE: AS SHOWN DESIGNED BY: RSB DRAWN BY: CRS CHECKED BY: BAB</p>	<p>SHEET NUMBER 10 OF 44</p>			



MATCHLINE SHEET 10

BUILDING 2
91,800 SF
25 TRUCK BAYS
59 PROPOSED PARKING SPOTS

BUILDING 3
95,040 SF
32 TRUCK BAYS
104 PROPOSED PARKING SPOTS
49 FUTURE SPOTS

LEGEND	
PROPERTY BOUNDARY	---
PROPOSED FIRE LANE	FL FL
PROPOSED PARKING COUNT (SEE KEYNOTE LEGEND THIS SHEET)	⊠ ⊡ ⊢
PROPOSED ACCESSIBLE PARKING SPACE	♿
PROPOSED BARRIER FREE RAMP	▭ ▭
EXISTING SANITARY SEWER MANHOLE	⊙
EXISTING FIRE HYDRANT	⊕
EXISTING POWER POLE	⊖

KEYNOTE LEGEND		
1 ACCESSIBLE CURB RAMP	7 STRIPED PEDESTRIAN ACCESS	13 DO NOT ENTER SIGN & PAVEMENT MARKING
2 CONCRETE WHEEL STOP (REFER TO ARCHITECTURAL PLANS FOR DETAILS) (TYP.)	8 YARD PERIMETER FENCE	14 CONCRETE SIDEWALK
3 VEHICLE BARRIER FENCE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	9 BOLLARDS	15 4" WHITE STRIPE TRAFFIC PAINT (TYP.)
4 SPEED BUMP (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	10 2' WHITE STOP BAR & STOP SIGN	16 RETAINING WALL (DESIGN BUILD BY CONTRACTOR) (SEE NOTE 8)
5 PEDESTRIAN BARRIER FENCE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)	11 HANDICAP SIGN (TYP.)	17 ONE WAY SIGN
6 ACCESSIBLE PARKING STALL (TYP.)	12 DIRECTIONAL ARROW (TYP.) (REFER TO SITE STRIPING AND SIGNAGE PLAN)	18 4" DOUBLE YELLOW STRIPE (TYP.)
		19 STRIPED TRAFFIC SEPARATION WITH JERSEY BARRIERS (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
		20 SPEED LIMIT SIGN
		⊠ PARKING COUNT - AUTO (9X18')
		⊡ PARKING COUNT - VAN PARKING (11'X27')
		⊢ PARKING COUNT - TRAILER TRUCK
		▼ TRUCK BAY

NOTES

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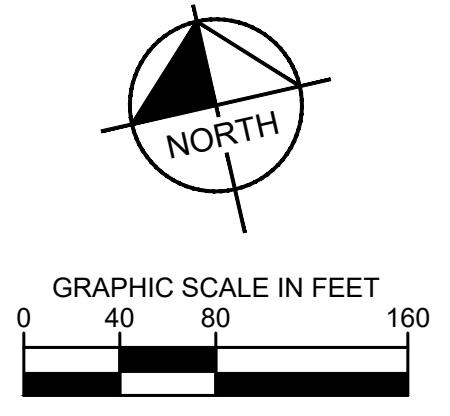
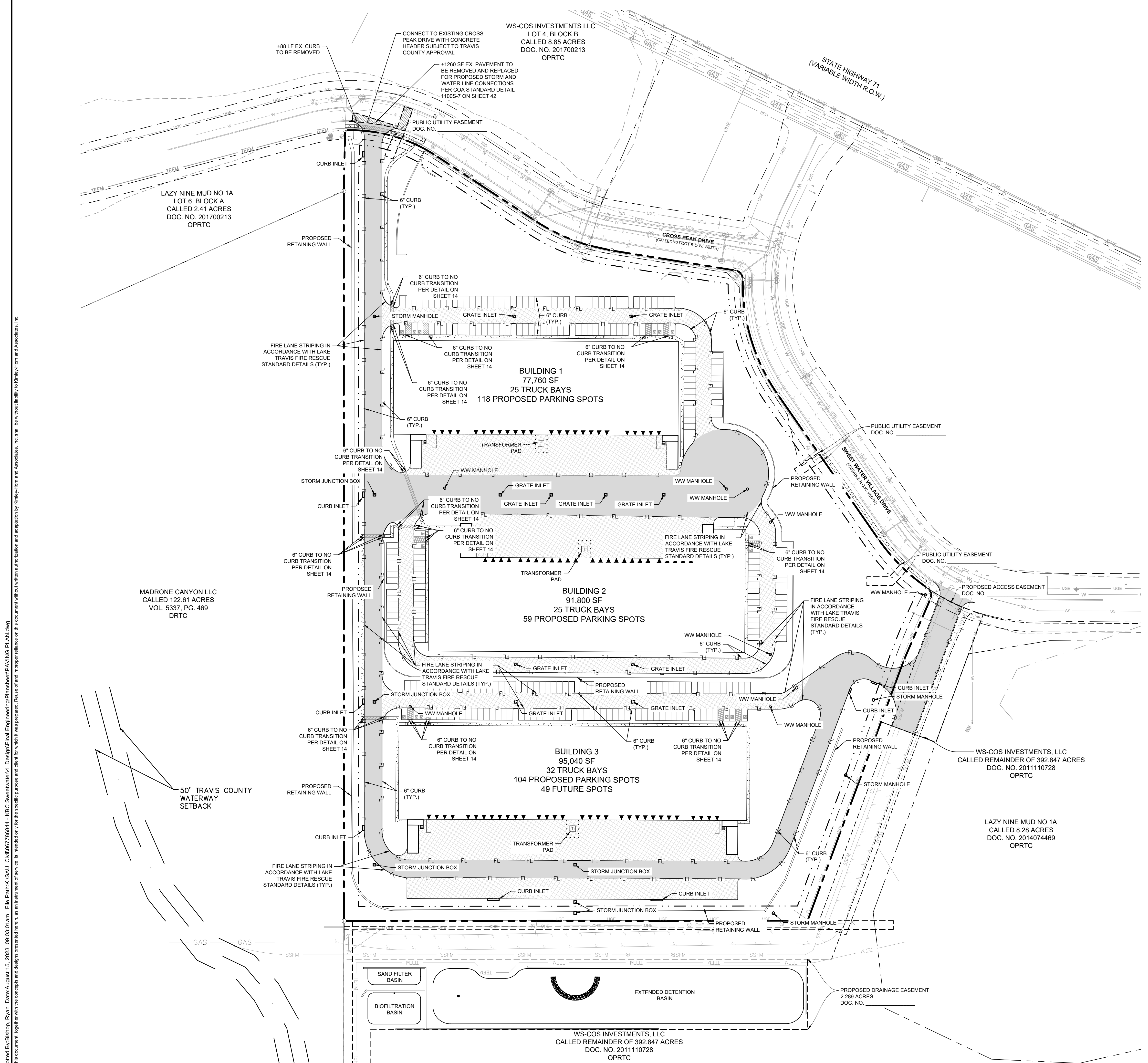


BENCHMARKS

BM #101	PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, 4690' 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, 438' SOUTH OF CROSS PEAK DRIVE CENTERLINE. ELEV=1157.662' (NAVD '88)

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	NO.	DATE	BY				
<p>PROFESSIONAL SEAL</p> <p>STATE OF TEXAS SINCE 1988 147739 LICENSED PROFESSIONAL ENGINEER</p>	<p>DATE 06/01/2023</p>						
<p>KHA PROJECT 067768844</p> <p>DATE 02/23/2023</p> <p>SCALE AS SHOWN</p> <p>DESIGNED BY: RSB</p> <p>DRAWN BY: CRS</p> <p>CHECKED BY: BAB</p>	<p>PROJECT DIMENSION CONTROL PLAN (2 OF 2)</p>						
<p>SWEETWATER CROSSING</p> <p>LAST MILE FACILITY</p> <p>CITY OF BEE CAVE</p> <p>TRAVIS COUNTY, TEXAS</p>	<p>SHEET NUMBER</p> <p>11 OF 44</p>						

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LEGEND	
PROPOSED FIRELANE	FL — FL
PROPERTY LINE	---
SAWCUT LINE	- - - - -
PROPOSED CURB	—
STANDARD-DUTY PAVEMENT	□
MEDIUM DUTY PAVEMENT	▨
HEAVY DUTY PAVEMENT	▩
PROPOSED PAVEMENT TO MATCH EXISTING CROSS PEAK DRIVE PAVEMENT SECTION REFER TO SWEETWATER CROSSING - PHASE 1 CONSTRUCTION PLANS, DATED OCTOBER 2016 BY MALONE WHEELER INC.	▧
PROPOSED SIDEWALK	▤

- NOTES**
- REFERENCE SHEET 3 FOR GENERAL NOTES.
 - REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVING, JOINT, AND SOIL PREPARATION NOTES.
 - REFERENCE DIMENSION CONTROL PLANS ON SHEETS 9 THROUGH 11 FOR CURB RADI AND LAYOUT INFORMATION.
 - REFERENCE IRRIGATION AND MEP PLANS FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
 - ISOLATION JOINT SHALL BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G. LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, MANHOLES, GRATE INLETS, JUNCTION BOXES, ETC.
 - EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
 - REFERENCE SHEETS 13 & 14 FOR PAVEMENT SECTION DETAILS.

GEOTECH NOTE

REFER TO GEOTECHNICAL REPORT FOR SPECIFICATIONS FOR PAVEMENT SECTIONS AND SUBGRADE PREPARATION
 TITLE: GEOTECHNICAL ENGINEERING REPORT, BEE CAVE DISTRIBUTION CENTER
 ECS PROJECT NUMBER: 17-5609
 BY: ECS SOUTHWEST, LLP
 REPORT DATED: 08/11/2021
 ADDENDUM DATED: 06/22/2021

BENCHMARKS

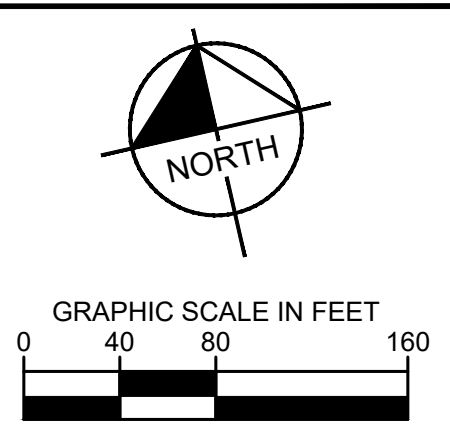
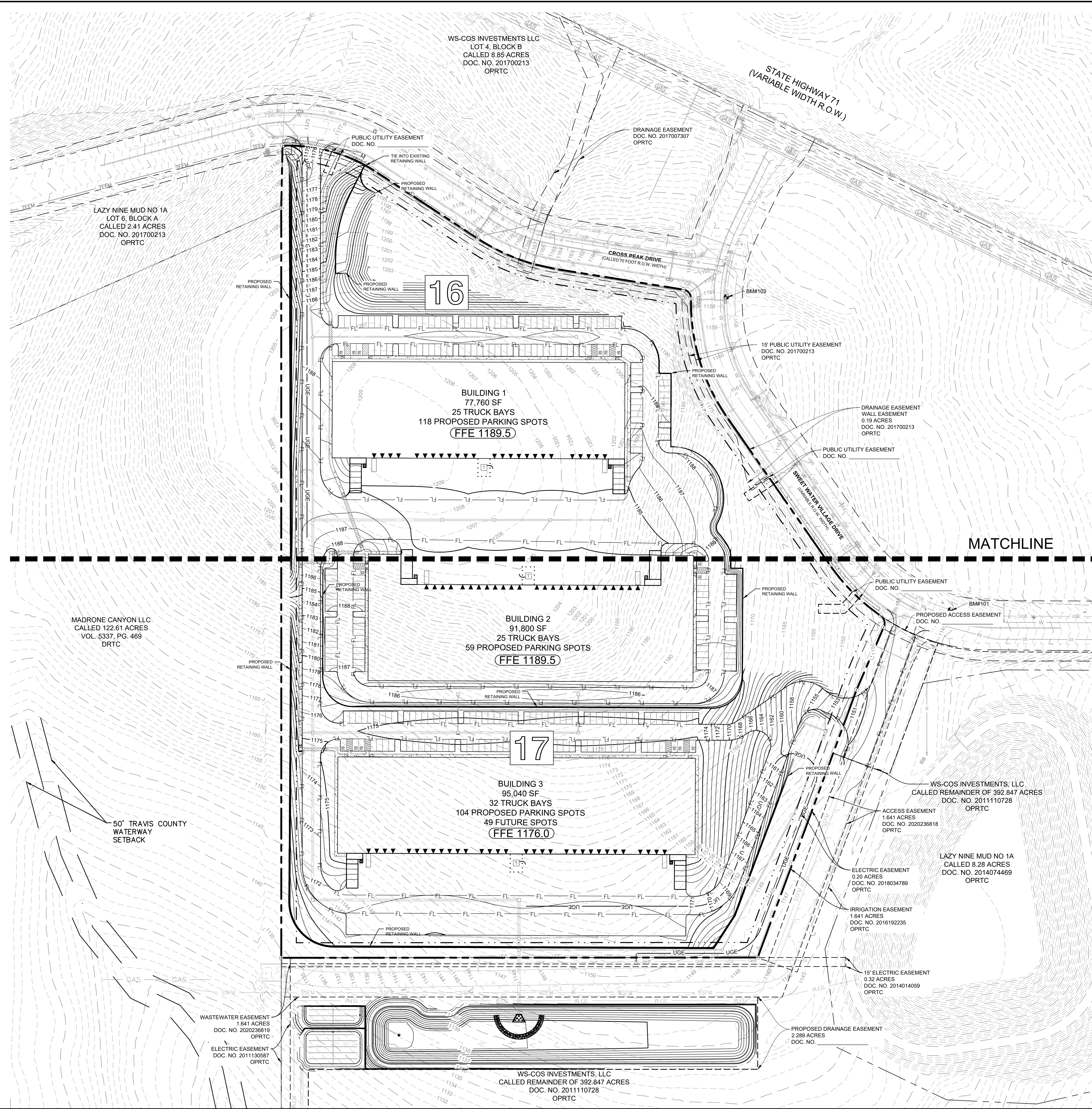
BM #101	PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, 4690' EAST OF CROSS PEAK DRIVE CENTERLINE. ELEV=1145.93' (NAVD '88)
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<p>© 2023 KIMLEY-HORN AND ASSOCIATES, INC. 5301 SOUTHWEST PARKWAY, BUILDING 2, SUITE 100, AUSTIN, TX 78735 PHONE: 512-646-2237 FAX: 512-418-1791 WWW.KIMLEY-HORN.COM TEXAS REGISTERED ENGINEERING FIRM F-928</p>	NO.	DATE
	REVISIONS	BY
<p>OVERALL PAVING PLAN</p> <p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p>	SHEET NUMBER	12 OF 44

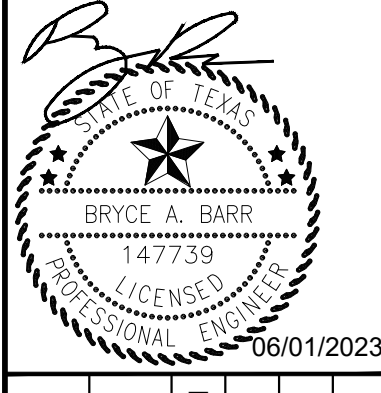
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KHA PROJECT	067786844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY:	RSB
DRAWN BY:	CRS
CHECKED BY:	BAB

OVERALL GRADING PLAN

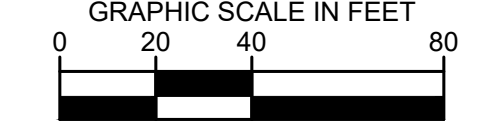
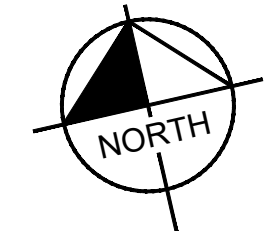
**SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS**

SHEET NUMBER
15 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)
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STATE HIGHWAY 71
(VARIABLE WIDTH R.O.W.)

DRAINAGE EASEMENT
DOC. NO. 2017007307
OPRTC

PUBLIC UTILITY EASEMENT
DOC. NO.

LAZY NINE MUD NO 1A
LOT 6, BLOCK A
CALLED 2.41 ACRES
DOC. NO. 201700213
OPRTC

EX. RETAINING WALL AND CONCRETE
FLUME TO REMAIN. CONTRACTOR TO
ENSURE EX. RETAINING WALL IS NOT
DAMAGED OR AFFECTED BY
CONSTRUCTION ACTIVITIES

EX. RETAINING WALL AND
CONCRETE FLUME TO REMAIN.
CONTRACTOR TO ENSURE EX.
RETAINING WALL IS NOT DAMAGED
OR AFFECTED BY CONSTRUCTION
ACTIVITIES

CROSS PEAK DRIVE
(CALLED 20 FOOT R.O.W. WIDTH)

EX. RETAINING WALL AND
CONCRETE FLUME TO REMAIN.
CONTRACTOR TO ENSURE EX.
RETAINING WALL IS NOT
DAMAGED OR AFFECTED BY
CONSTRUCTION ACTIVITIES

15' PUBLIC UTILITY EASEMENT
DOC. NO. 201700213
OPRTC

- NOTES**
1. TOP OF WALL AND BOTTOM OF WALL GRADE SPOT SHOTS ARE FOR GRADING PURPOSES ONLY. CONTRACTOR TO PROVIDE COMPLETE DESIGN FOR RETAINING WALLS. DESIGN SHALL BE SUBMITTED TO ENGINEER AND OWNER FOR REVIEW.
 2. SPOT ELEVATIONS ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
 3. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR SUBGRADE PREPARATIONS SPECIFICATIONS FOR ALL PROPOSED BUILDINGS.
 4. ALL FILL MATERIAL SHALL BE COMPACTED PER GEOTECH RECOMMENDATION. REFER TO PAVING SECTION DETAILS FOR SUBGRADE PREPARATION REQUIREMENTS UNDER ALL PAVED AREAS. (REFER TO GEOTECH REPORT) CONTRACTOR SHALL VERIFY ALL SIDEWALKS HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%. IF THE CONTRACTOR IDENTIFIES SLOPES GREATER, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO CONSTRUCTION.
 5. SPOT ELEVATIONS IDENTIFIED AS "MATCH EXISTING" SHALL BE FIELD VERIFIED. CONTRACTOR SHALL NOTIFY CIVIL ENGINEERING CONSULTANT (CEC) OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH GRADING ACTIVITIES.
 6. CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLES, ELECTRICAL MANHOLES, FIRE HYDRANTS, VALVE BOXES, WATER METERS, STORM MANHOLES ETC. TO MATCH PROPOSED FINISHED GRADES, IF NECESSARY.
 7. MAXIMUM SLOPE IN TURF AREAS SHALL BE 4:1 UNLESS OTHERWISE NOTED.
 8. REFER TO LANDSCAPE PLANS FOR GRADING DETAILS IN LANDSCAPE AREA.
 9. CONTRACTOR SHALL PROVIDE CLASS 1 TYPE A MATTING BIONET SC150B IN AREAS THAT EXCEED 3:1 SLOPES. REFER TO SHEET 39 - STABILIZATION AND RESTORATION DETAILS FOR PROPOSED RESTORATION AND STABILIZATION INFORMATION.
 10. IF PERCHED WATER IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT KIMLEY-HORN AND ECS SOUTHWEST FOR GUIDANCE.

LEGEND

PROPERTY LINE	---
PROPOSED CONTOUR	1170
EXISTING CONTOUR	1170
PROPOSED RIDGE LINE	---
PROPOSED STORM LINE	---
TOP OF PAVEMENT ELEVATION	● 1170.00
TOP OF PAVEMENT ELEVATION	● 1170.00 TP
TOP OF CURB ELEVATION	● 1170.50 TC
MATCH TO EXISTING ELEVATION	● 1170.00 ME
NO CURB	● 1170.00 NC
ELEVATION AT BOTTOM OF WALL	● 1170.00 BW
ELEVATION AT TOP OF WALL	● 1175.00 TW
ELEVATION AT FINISHED FLOOR	● 1172.00 FF
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ELEVATION AT FLOW LINE	● 1170.00 FL
ELEVATION AT END OF WALL	● 1170.00 EW

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BENCHMARKS

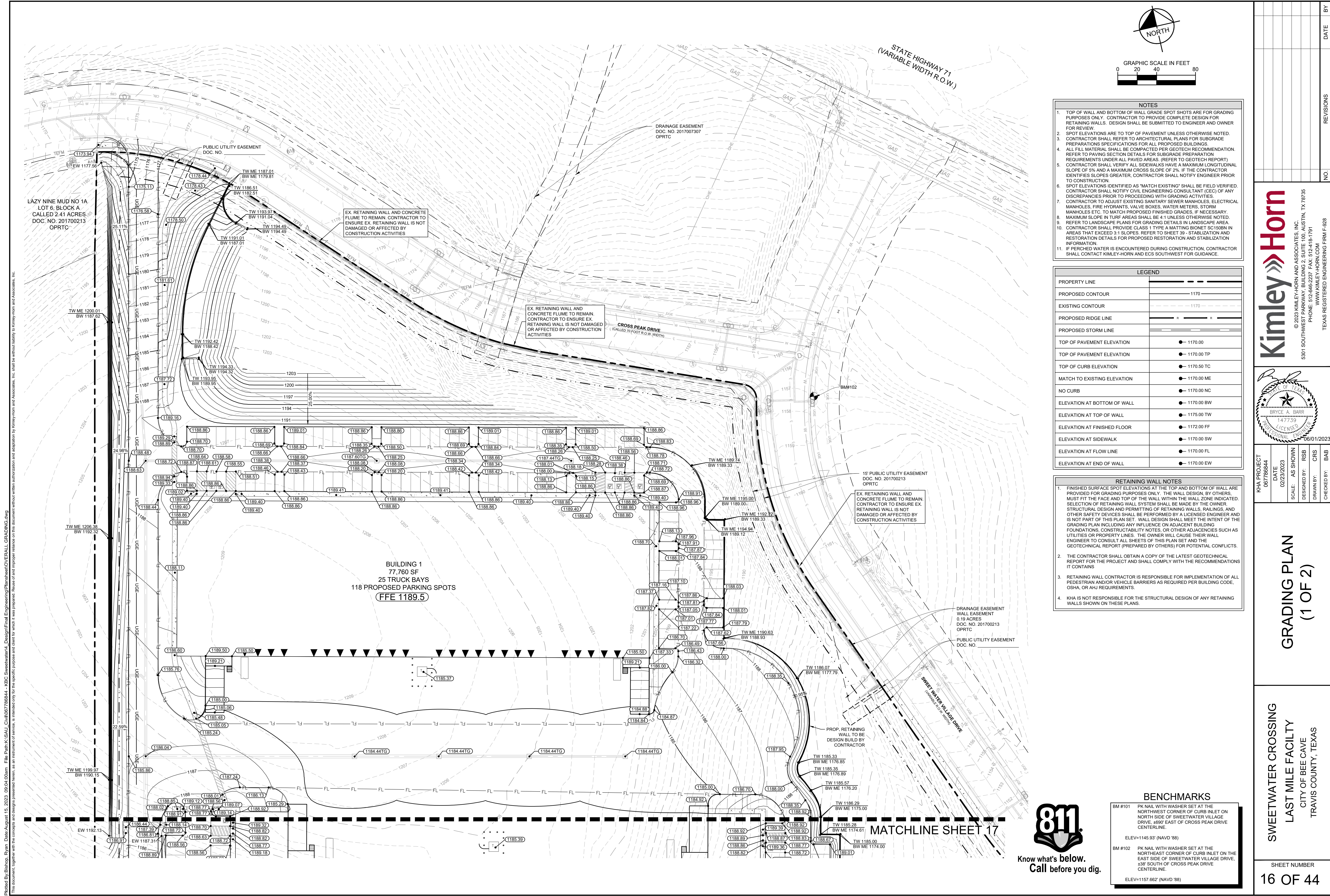
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Know what's below.
Call before you dig.

MATCHLINE SHEET 17

BUILDING 1
77,760 SF
25 TRUCK BAYS
118 PROPOSED PARKING SPOTS
(FFE 1189.5)

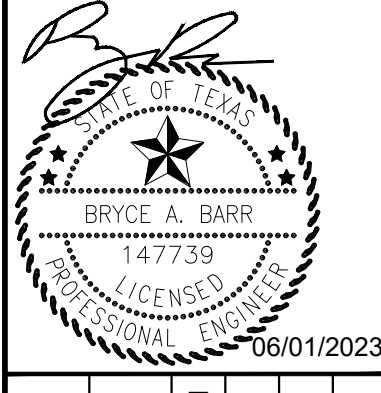


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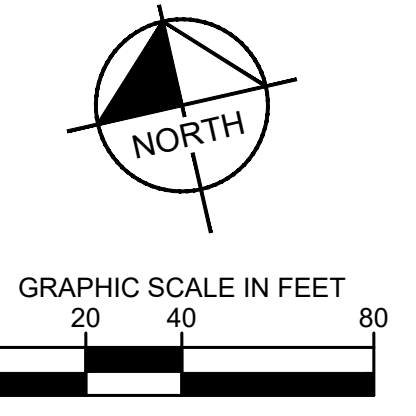
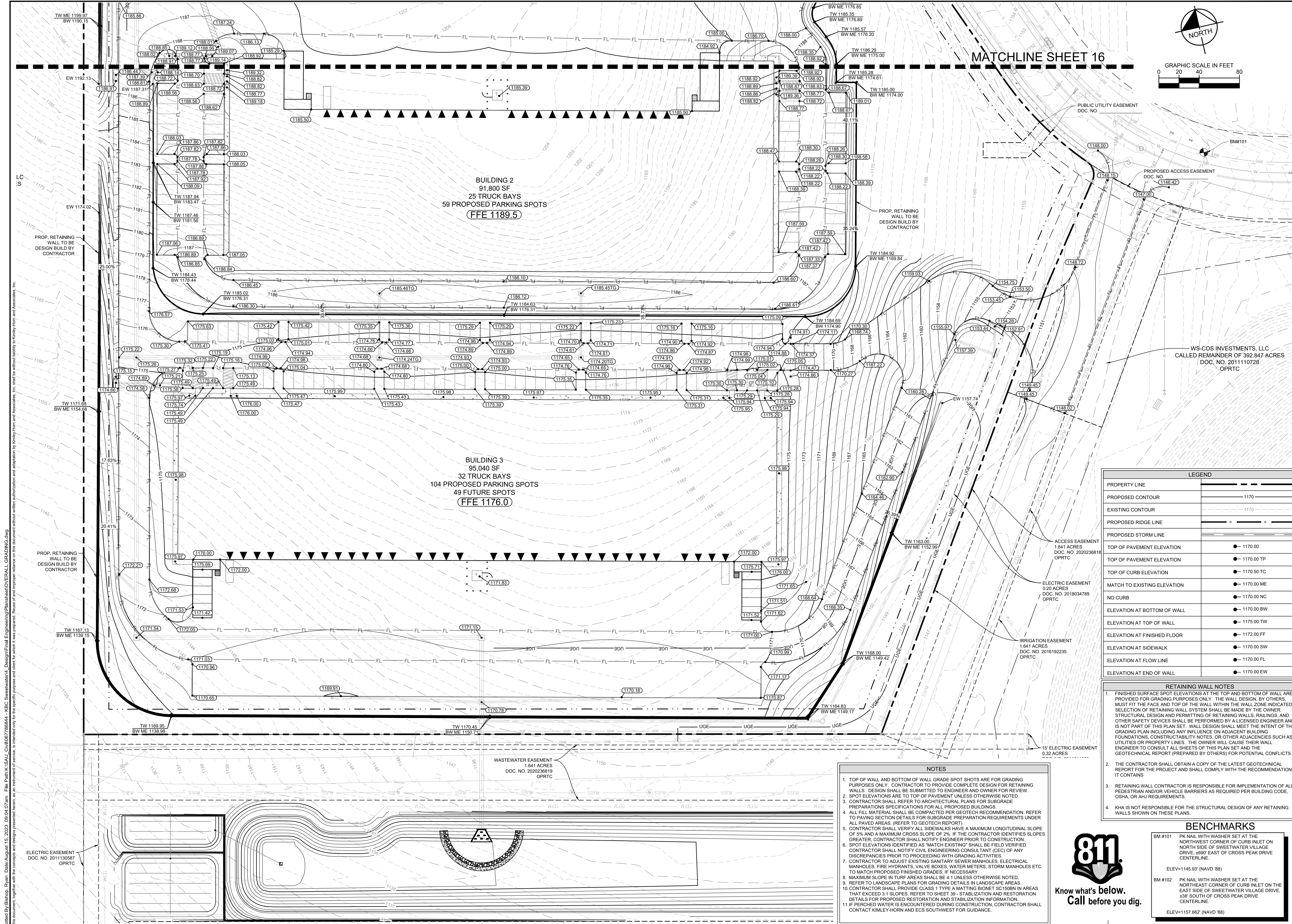
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KHA PROJECT	06776844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY	RSB
DRAWN BY	CRS
CHECKED BY	BAB

**GRADING PLAN
(1 OF 2)**

SWEETWATER CROSSING
LAST MILE FACILITY
CITY OF BEE CAVE
TRAVIS COUNTY, TEXAS



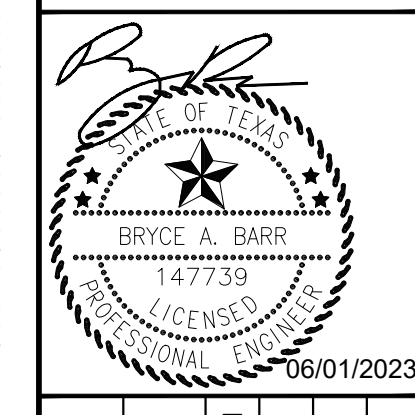
MATCHLINE SHEET 16

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 TEXAS REGISTERED ENGINEERING FIRM F-988



KHA PROJECT	06776844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY	RSB
DRAWN BY	CRS
CHECKED BY	BAB

GRADING PLAN
(2 OF 2)

SWEETWATER CROSSING
LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS

SHEET NUMBER
17 OF 44

LEGEND	
PROPERTY LINE	---
PROPOSED CONTOUR	---
EXISTING CONTOUR	---
PROPOSED RIDGE LINE	— R — R —
PROPOSED STORM LINE	---
TOP OF PAVEMENT ELEVATION	● 1170.00
TOP OF PAVEMENT ELEVATION	● 1170.00 TP
TOP OF CURB ELEVATION	● 1170.00 TC
MATCH TO EXISTING ELEVATION	● 1170.00 ME
NO CURB	● 1170.00 NC
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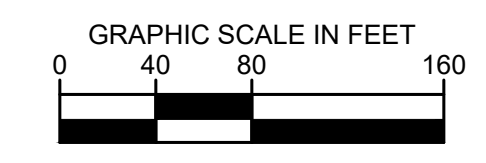
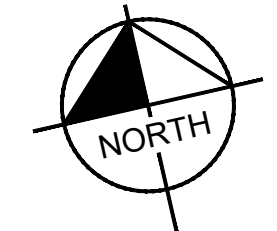
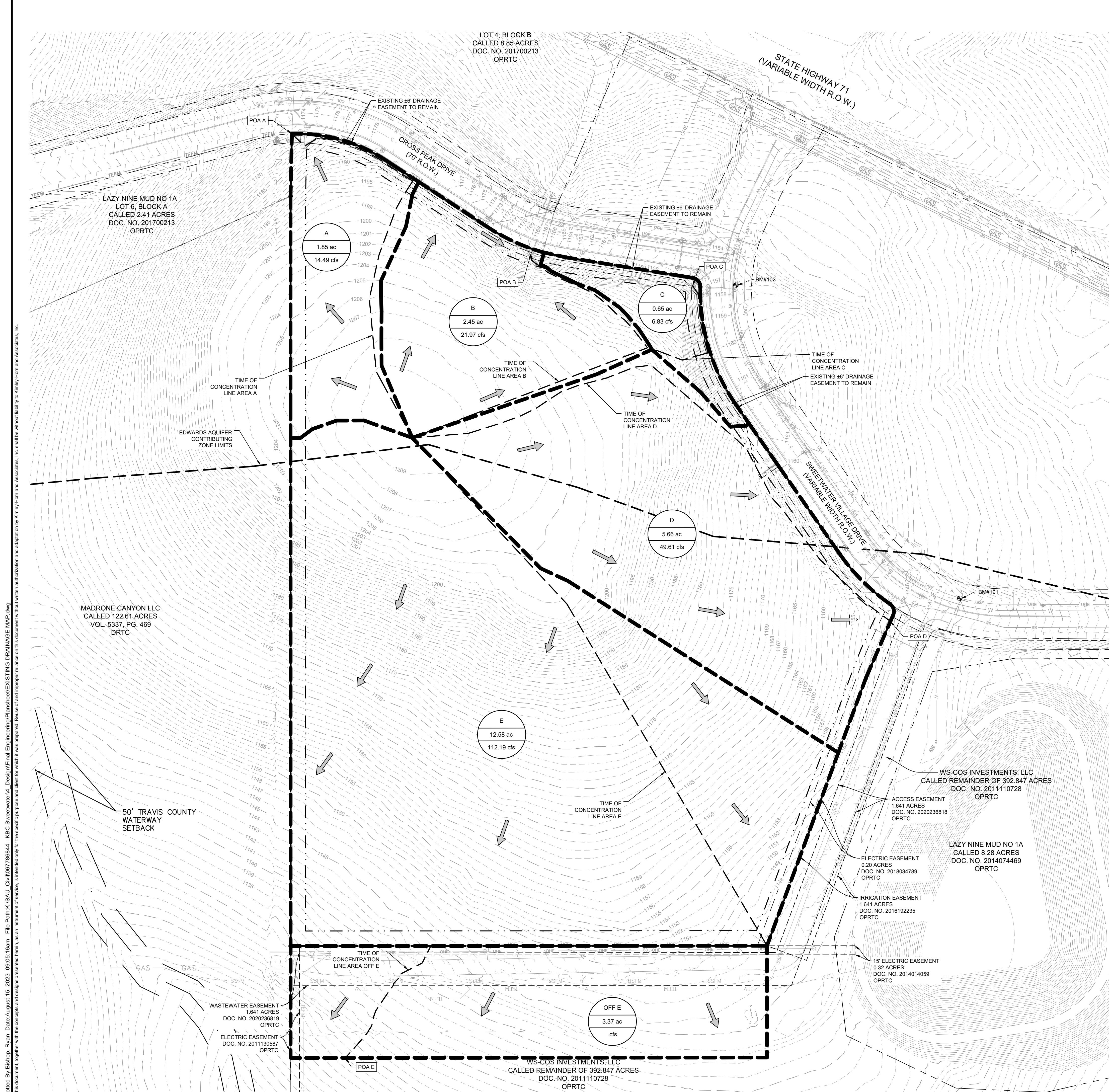
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BENCHMARKS

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DRAINAGE KEY

- X → DRAINAGE AREA DESIGNATION
- X.XX ac → AREA (ACRES)
- X.X cfs → @100 FLOW IN CFS
- PROPOSED DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION LINE
- EXISTING CONTOUR
- EXISTING FLOW DIRECTION

- NOTES**
- EXISTING DRAINAGE AREAS WERE DETERMINED BY ALTA SURVEY BY KIMLEY-HORN AND ASSOCIATES DATED 05/10/2021 AND LIDAR DATA.
 - THE RUNOFF FOR THIS SITE IS COLLECTED INTO TWO MAIN DRAINAGE SYSTEMS. THE RUNOFF ON THE NORTH SIDE OF THE SITE IS DETAINED WITH PROPOSED UNDERGROUND DETENTION. THE RUNOFF ON THE SOUTH SIDE OF THE SITE IS DETAINED WITH A PROPOSED DETENTION BASIN.
 - A STORMWATER MANAGEMENT PLAN IS BEING PREPARED AS PART OF THIS CONSTRUCTION SET.
 - REFERENCE SWEETWATER CROSSING LAST MILE FACILITY STORMWATER MANAGEMENT PLAN FOR ADDITIONAL INFORMATION.
 - DOWNSWATER RECEIVING WATERS: LITTLE BARTON CREEK (SOUTH) & HURST CREEK (NORTH)

WEIGHTED CURVE NUMBER CALCULATIONS

Area ID	Area SF	Area Acre	Soil Group %	Impervious			Pervious			CN
				SF	AC	SN	SF	AC	SN	
A	80,691	1.85	100% D	593	0.01	80,098	1.84	83.11		
B	106,549	2.45	100% D	813	0.02	105,735	2.43	83.11		
C	28,133	0.65	100% D	1,523	0.03	26,610	0.61	83.81		
D	246,695	5.66	100% D	0	0.00	246,695	5.66	83.00		
E	548,171	12.58	100% D	0	0.00	548,171	12.58	83.00		
OFF E	146,979	3.37	100% D	20,037	0.46	126,941	2.91	85.04		
TOTALS	1,157,218	26.57	100% D	22,967	0.53	1,134,251	26.04			

Soil Type Description CN TYPE
 D Brush - Poor Condition 83 Pervious
 D Impervious Areas 98 Impervious

*The Curve Number (Cn) for on-site areas has been determined from Table 2-2c of Technical Release 55. The cover type, hydrologic condition, and soil group determined for the on-site areas are brush and poor condition and Type D soil group with a Cn of 83.

ON-SITE AREAS

DRAINAGE AREA	SHEET FLOW				SHALLOW CONCENTRATED FLOW				TOTAL Tc** (min)			
	P-2yr24hr	4.14 IN	Unpaved Surface	Paved Surface	L (ft)	S (ft/ft)	Tt (min)	L (ft)		S (ft/ft)	Tt (min)	
A	0.13	100	0.003	16.9	357	0.054	1.6	231	0.068	0.724	19.2	
B	0.13	100	0.010	10.3	570	0.059	2.4	5	0.117	0.011	12.8	
C	0.13	90	0.296	2.4	0			117	0.017	0.734	5.0	
D	0.13	100	0.009	10.5	908	0.065	3.7	0	-	0.000	14.1	
E	0.13	100	0.012	9.4	935	0.066	3.8	0	-	0.000	13.2	
OFF-SITE AREAS	OFF E	0.13	100	0.065	4.8	142	0.046	0.7	0	-	0.000	5.5

**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 "range (natural)".
 ****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.

Existing Storm Drainage Summary (SCS Methodology)

Area ID	Flow Rate (CFS)				Collection Point
	2	10	25	100	
A	4.61	8.39	10.90	14.49	Existing swale along Cross Peak Drive (A)
B	7.36	13.36	17.36	21.97	Existing storm area inlet (B)
C	2.69	4.79	6.18	6.83	Existing storm area inlet (C)
D	16.34	29.88	38.91	49.61	Existing swale along Sweetwater Village Drive (D)
E	37.38	68.08	88.53	112.19	Point of Channelization to the South of the Property (E & OFF E)

Note: Results are from PondPack V8c modeling

BENCHMARKS

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EXISTING DRAINAGE AREA MAP

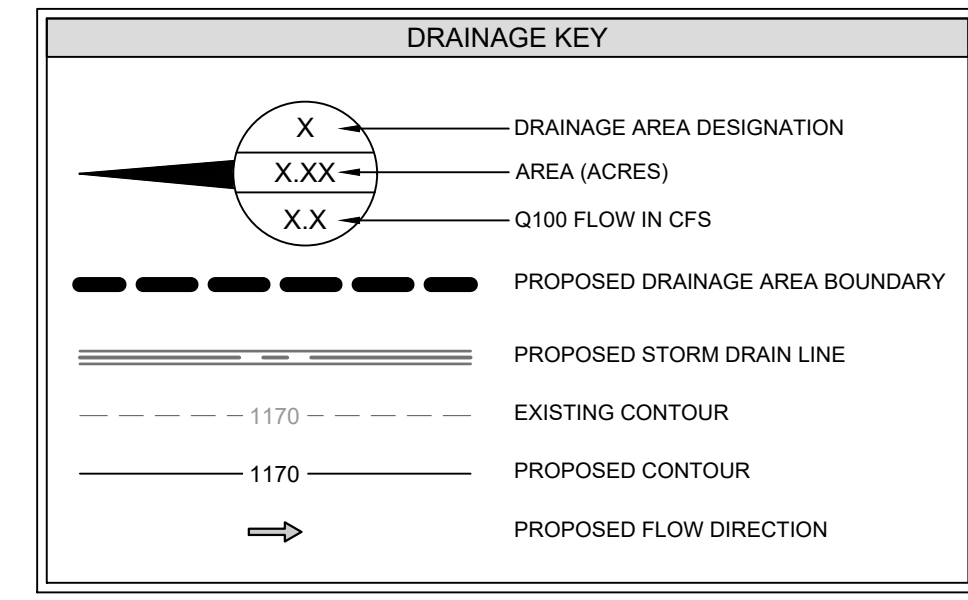
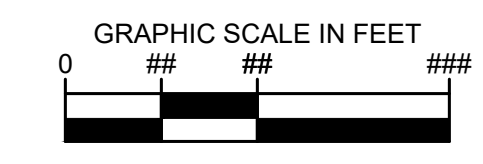
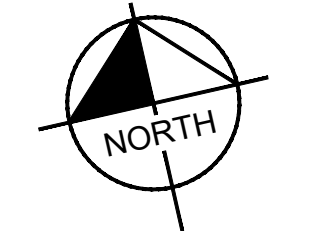
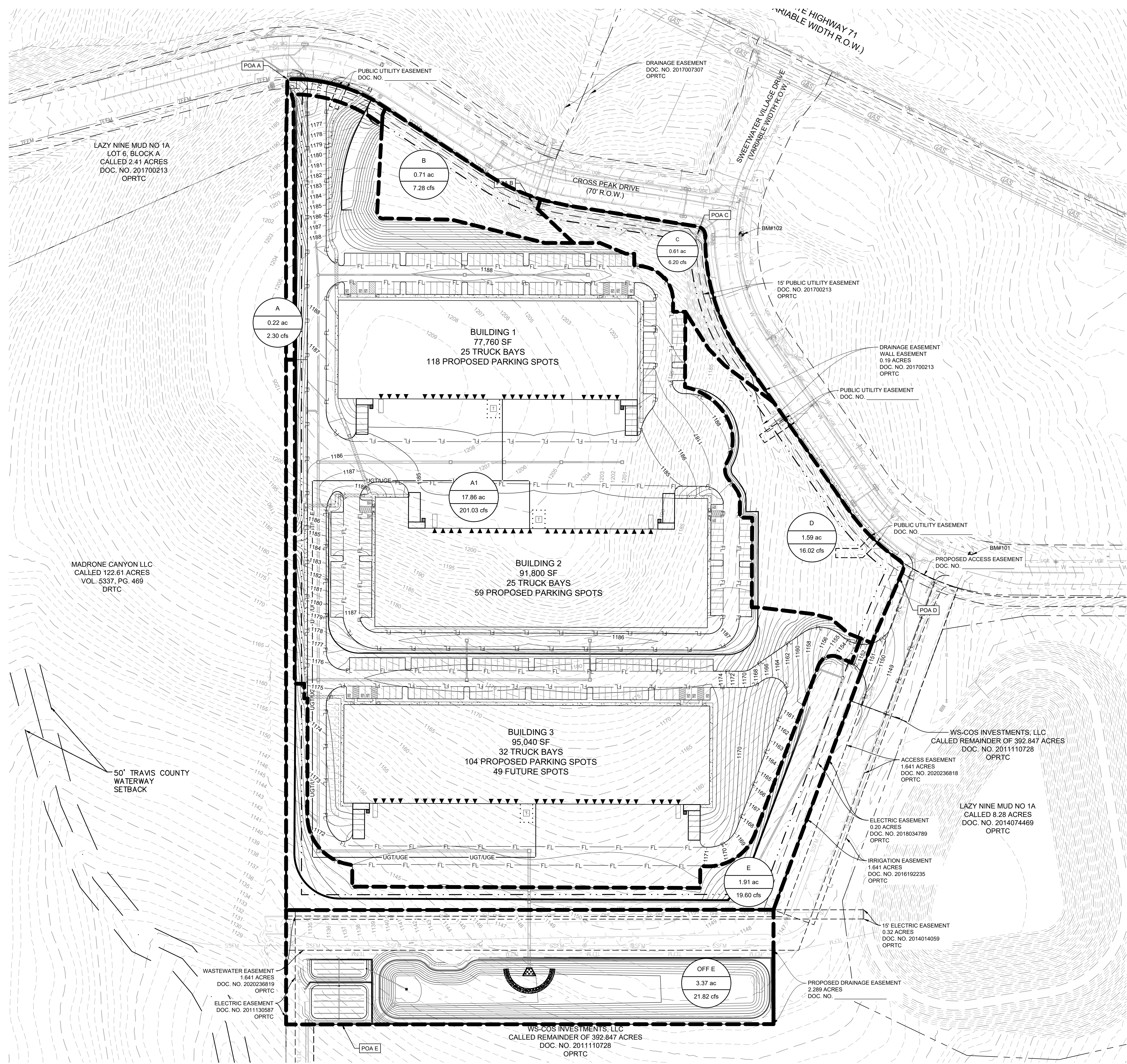
SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS

KHA PROJECT: 06776844
 DATE: 02/23/2023
 SCALE: AS SHOWN
 DESIGNED BY: RSB
 DRAWN BY: CRS
 CHECKED BY: BAB

SHEET NUMBER: 18 OF 44

Plotted By: blallop, Ryan Date: August 15, 2023 09:05:16am File Path: K:\SAL_Civil\06776844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\EXISTING DRAINAGE MAP.dwg
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- NOTES**
- EXISTING DRAINAGE AREAS WERE DETERMINED BY ALTA SURVEY BY KIMLEY-HORN AND ASSOCIATES DATED 05/10/2021 AND LIDAR DATA.
 - THE RUNOFF FOR THIS SITE IS COLLECTED INTO TWO MAIN DRAINAGE SYSTEMS. THE RUNOFF ON THE NORTH SIDE OF THE SITE IS DETAINED WITH PROPOSED UNDERGROUND DETENTION. THE RUNOFF ON THE SOUTH SIDE OF THE SITE IS DETAINED WITH A PROPOSED DETENTION BASIN.
 - A STORMWATER MANAGEMENT PLAN IS BEING PREPARED AS PART OF THIS CONSTRUCTION SET.
 - REFERENCE SWEETWATER CROSSING LAST MILE FACILITY STORMWATER MANAGEMENT PLAN FOR ADDITIONAL INFORMATION.
 - REFER TO DRAINAGE AREA DESIGN TABLES (SHEET 24) FOR MORE DRAINAGE AREA INFORMATION SUCH AS ACREAGE AND Q100 FLOWS.

EXISTING VS. PROPOSED STORM DRAINAGE SUMMARY (SCS METHOD)

STORM EVENT	POINT OF ANALYSIS	EXISTING CONDITIONS FLOW (CFS)	PROPOSED CONDITIONS FLOW (CFS)
2	POA A	4.61	0.89
	POA B	7.36	2.64
	POA C	2.69	2.30
	POA D	16.34	5.72
	POA E	37.38	35.36
10	POA A	8.39	1.60
	POA B	13.36	4.94
	POA C	4.79	4.24
	POA D	29.88	10.78
	POA E	68.08	62.28
25	POA A	10.90	2.07
	POA B	17.36	6.48
	POA C	6.18	5.54
	POA D	38.91	14.20
	POA E	88.53	81.27
100	POA A	14.49	2.30
	POA B	21.97	7.28
	POA C	6.83	6.20
	POA D	49.61	16.02
	POA E	112.19	111.68

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KHA PROJECT: 067786844
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 SCALE: AS SHOWN
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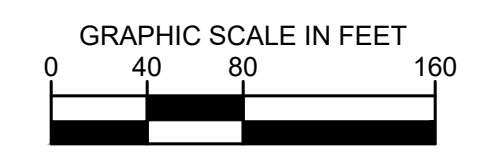
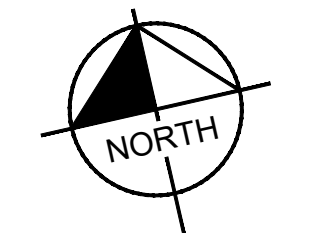
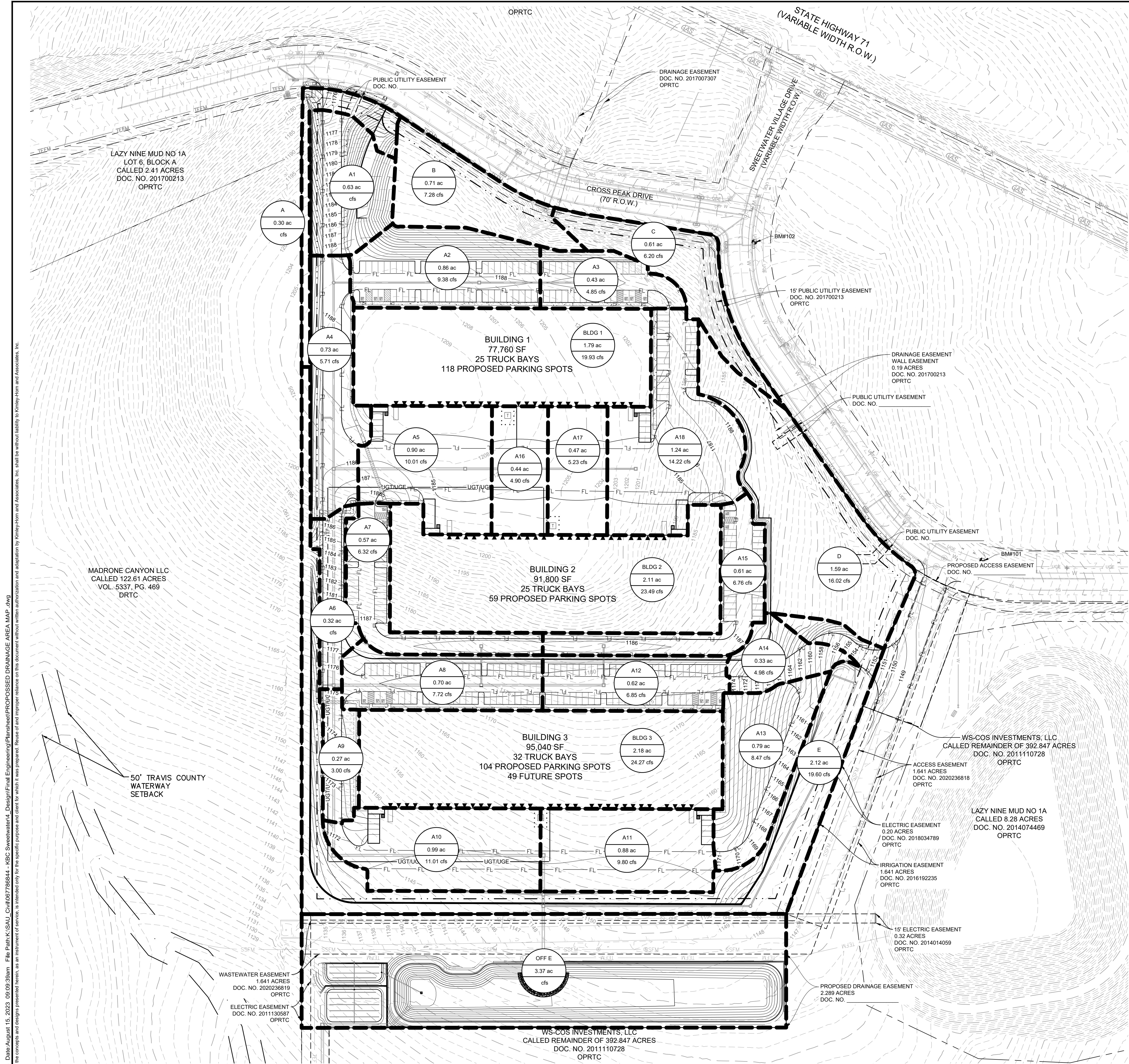
PROPOSED DRAINAGE AREA MAP

SWEETWATER CROSSING LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS

SHEET NUMBER
19 OF 44



- BENCHMARKS**
- BM #101 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE. 4690' 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. 438' SOUTH OF CROSS PEAK DRIVE CENTERLINE.
 ELEV=1157.662' (NAVD '88)



DRAINAGE KEY

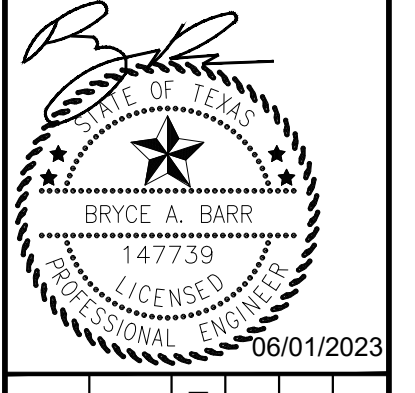
- X — DRAINAGE AREA DESIGNATION
- X.XX — AREA (ACRES)
- X.X — Q100 FLOW IN CFS
- PROPOSED DRAINAGE AREA BOUNDARY
- == PROPOSED STORM DRAIN LINE
- 1170 — EXISTING CONTOUR
- 1170 — PROPOSED CONTOUR
- PROPOSED FLOW DIRECTION

- NOTES**
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 - REFERENCE SWEETWATER CROSSING LAST MILE FACILITY STORMWATER MANAGEMENT PLAN FOR ADDITIONAL INFORMATION.
 - REFER TO DRAINAGE AREA DESIGN TABLES (SHEET 24) FOR MORE DRAINAGE AREA INFORMATION SUCH AS ACREAGE AND Q100 FLOWS.

NO.	REVISIONS	DATE	BY

Kimley-Horn

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KHA PROJECT	06776844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY:	RSB
DRAWN BY:	CRS
CHECKED BY:	BAB

**INLET DRAINAGE AREA
MAP**

SWEETWATER CROSSING
LAST MILE FACILITY
CITY OF BEE CAVE
TRAVIS COUNTY, TEXAS

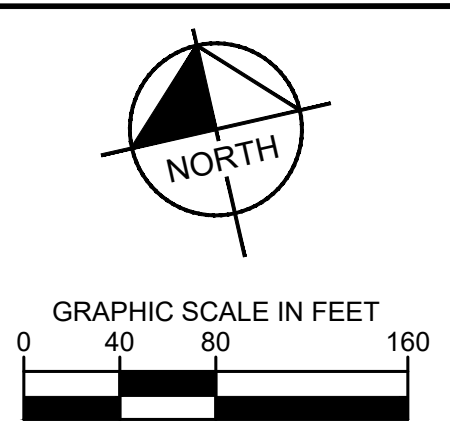
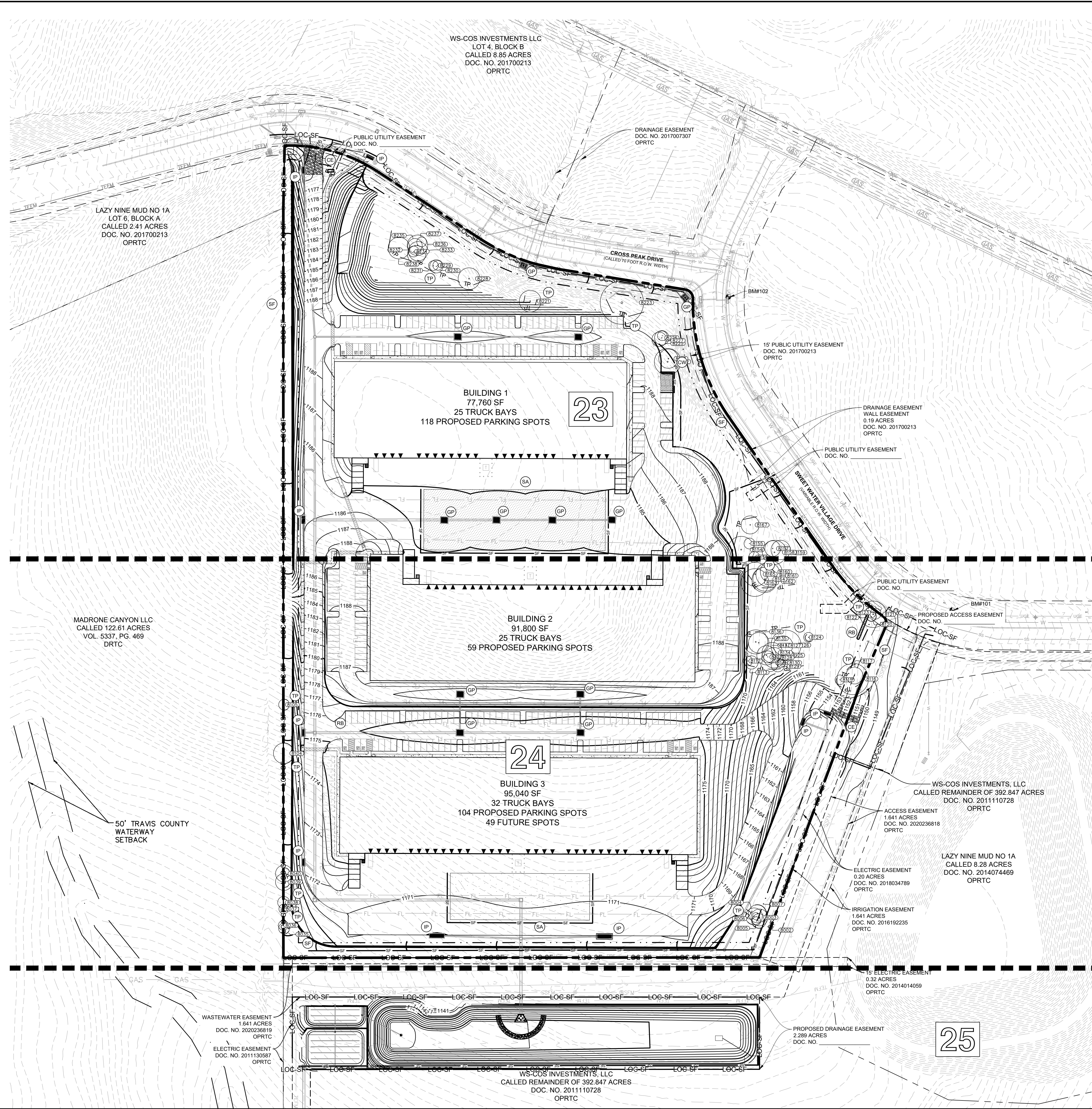


BENCHMARKS

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. ELEV=1157.662' (NAVD '88)

Plotted By: Blalock, Ryan Date: August 15, 2023 09:09:38am File Path: K:\S\AU_Civil\06776844 - KBC Sweetwater4 - Design\Final Engineering\Plan\Sheet\PROPOSED DRAINAGE AREA MAP.dwg
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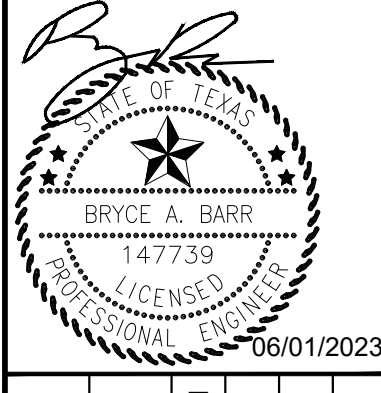
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NO	REVISIONS	DATE	BY

Kimley & Horn

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KHA PROJECT 067786844	DATE 02/23/2023	SCALE AS SHOWN	DESIGNED BY RSB	DRAWN BY CRS	CHECKED BY BAB
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OVERALL EROSION CONTROL PLAN

SWEETWATER CROSSING
LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS

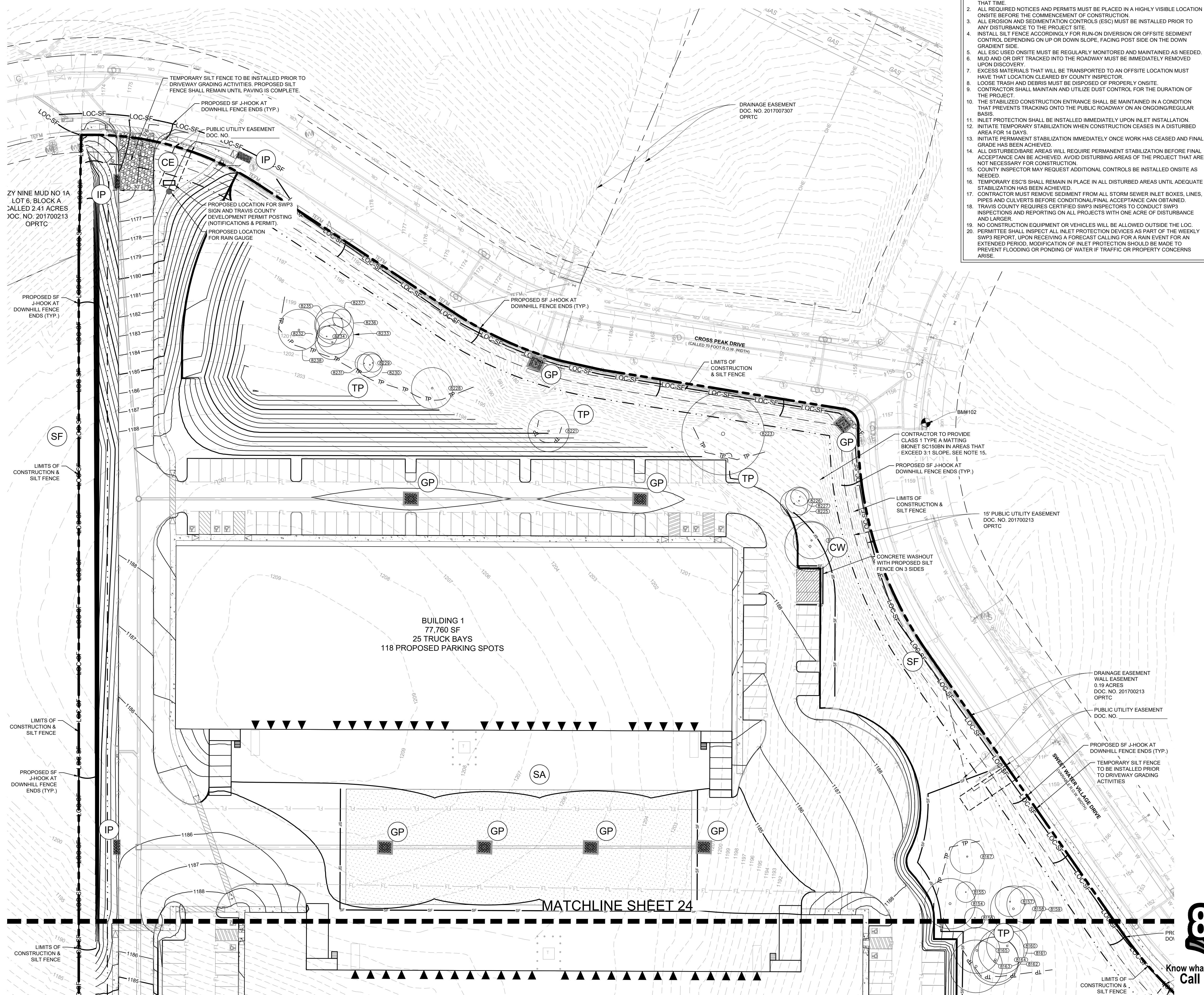
SHEET NUMBER
22 OF 44

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

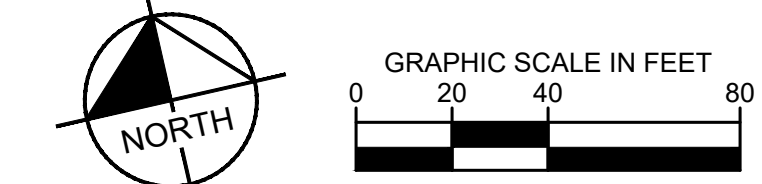
BENCHMARKS

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. ELEV=1157.662' (NAVD '88)

Plotted By: blabop, Ryan Date: August 15, 2023 09:10:16am File Path: K:\SAU_Civil\067786844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\Overall Erosion Control.dwg
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- TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES NOTES**
- IF A CONCRETE WASHOUT IS TO BE UTILIZED DURING CONSTRUCTION ADD A NOTE ON THE PLAN SHEETS THAT STATES THAT THE LOCATION WILL BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND WILL BE PROPERLY NOTATED ON THE SITE MAP AT THAT TIME.
 - ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ON SITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 - ALL EROSION AND SEDIMENTATION CONTROLS (ESC) MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO THE PROJECT SITE.
 - INSTALL SILT FENCE ACCORDINGLY FOR RUN-ON DIVERSION OR OFFSITE SEDIMENT CONTROL DEPENDING ON UP OR DOWN SLOPE, FACING POST SIDE ON THE DOWN GRADIENT SIDE.
 - ALL ESC USED ON SITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
 - MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 - EXCESS MATERIALS THAT WILL BE TRANSPORTED TO AN OFFSITE LOCATION MUST HAVE THAT LOCATION CLEARED BY COUNTY INSPECTOR.
 - LOOSE TRASH AND DEBRIS MUST BE DISPOSED OF PROPERLY ON SITE.
 - CONTRACTOR SHALL MAINTAIN AND UTILIZE DUST CONTROL FOR THE DURATION OF THE PROJECT.
 - THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING ONTO THE PUBLIC ROADWAY ON AN ONGOING/REGULAR BASIS.
 - INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON INLET INSTALLATION.
 - INITIATE TEMPORARY STABILIZATION WHEN CONSTRUCTION CEASES IN A DISTURBED AREA FOR 14 DAYS.
 - INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED.
 - ALL DISTURBED/BARE AREAS WILL REQUIRE PERMANENT STABILIZATION BEFORE FINAL ACCEPTANCE CAN BE ACHIEVED. AVOID DISTURBING AREAS OF THE PROJECT THAT ARE NOT NECESSARY FOR CONSTRUCTION.
 - COUNTY INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ON SITE AS NEEDED.
 - TEMPORARY ESC'S SHALL REMAIN IN PLACE IN ALL DISTURBED AREAS UNTIL ADEQUATE STABILIZATION HAS BEEN ACHIEVED.
 - CONTRACTOR MUST REMOVE SEDIMENT FROM ALL STORM SEWER INLET BOXES, LINES, PIPES AND CULVERTS BEFORE CONDITIONAL FINAL ACCEPTANCE CAN OBTAINED.
 - TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
 - NO CONSTRUCTION EQUIPMENT OR VEHICLES WILL BE ALLOWED OUTSIDE THE LOC.
 - PERMITTEE SHALL INSPECT ALL INLET PROTECTION DEVICES AS PART OF THE WEEKLY SWP3 REPORT. UPON RECEIVING A FORECAST CALLING FOR A RAIN EVENT FOR AN EXTENDED PERIOD, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.



LEGEND	
PROPERTY LINE	---
PROPOSED CONTOURS	- - - - - 1170
EXISTING CONTOURS	- - - - - 1170
LIMITS OF CONSTRUCTION WITH SILT FENCE (LOC-SF)	LOC-SF
J-HOOK	()
SILT FENCE	(SF) --- SF
CONSTRUCTION ENTRANCE	(CE) [Pattern]
SPOILS AREA	(SA) [Pattern]
CONCRETE WASHOUT	(CW) [Pattern]
GRATE INLET PROTECTION	(GP) [Pattern]
CURB INLET PROTECTION	(IP) [Pattern]
ROCK BERM	(RB) [Pattern]
TREE PROTECTION	(TP) --- TP

- NOTES**
- REFER TO SHEET 3 FOR GENERAL NOTES.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
 - CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
 - DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
 - TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ACHIEVED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
 - BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
 - SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ON SITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.
 - IN AREAS WITH 4:1 SLOPES, CONTRACTOR TO INSTALL SOIL RETENTION BLANKET IF NECESSARY.
 - ALL SAWDUST WATER SHALL BE VACUUMED AND DISPOSED PROPERLY (I.E. CONCRETE WASHOUT PIT).
 - ALL HYPERCHLORINATED WATER AND BLOW OFF WATER SHALL BE DISCHARGED INTO SANITARY SEWER SYSTEM.
 - CONTRACTOR SHALL HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T. AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.
 - SOIL TRACKED ONTO PUBLIC ROADS MUST BE REMOVED AT A FREQUENCY THAT MINIMIZES SITE IMPACTS AND PRIOR TO THE NEXT RAIN EVENT, IF FEASIBLE.
 - USING WATER TO WASH SEDIMENT FROM STREETS IS PROHIBITED.
 - CONTRACTOR SHALL PROVIDE CLASS 1 TYPE A MATTING BIONET SC150BN IN AREAS THAT EXCEED 3:1 SLOPES. REFER TO SHEET 39 - STABILIZATION AND RESTORATION DETAILS FOR PROPOSED RESTORATION AND STABILIZATION INFORMATION.
 - ANY MULCH THAT IS CREATED SHOULD BE RETAINED AND STOCKPILED ON SITE TO BE USED AS TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.

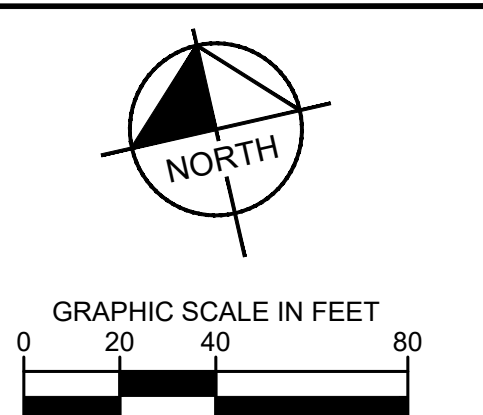
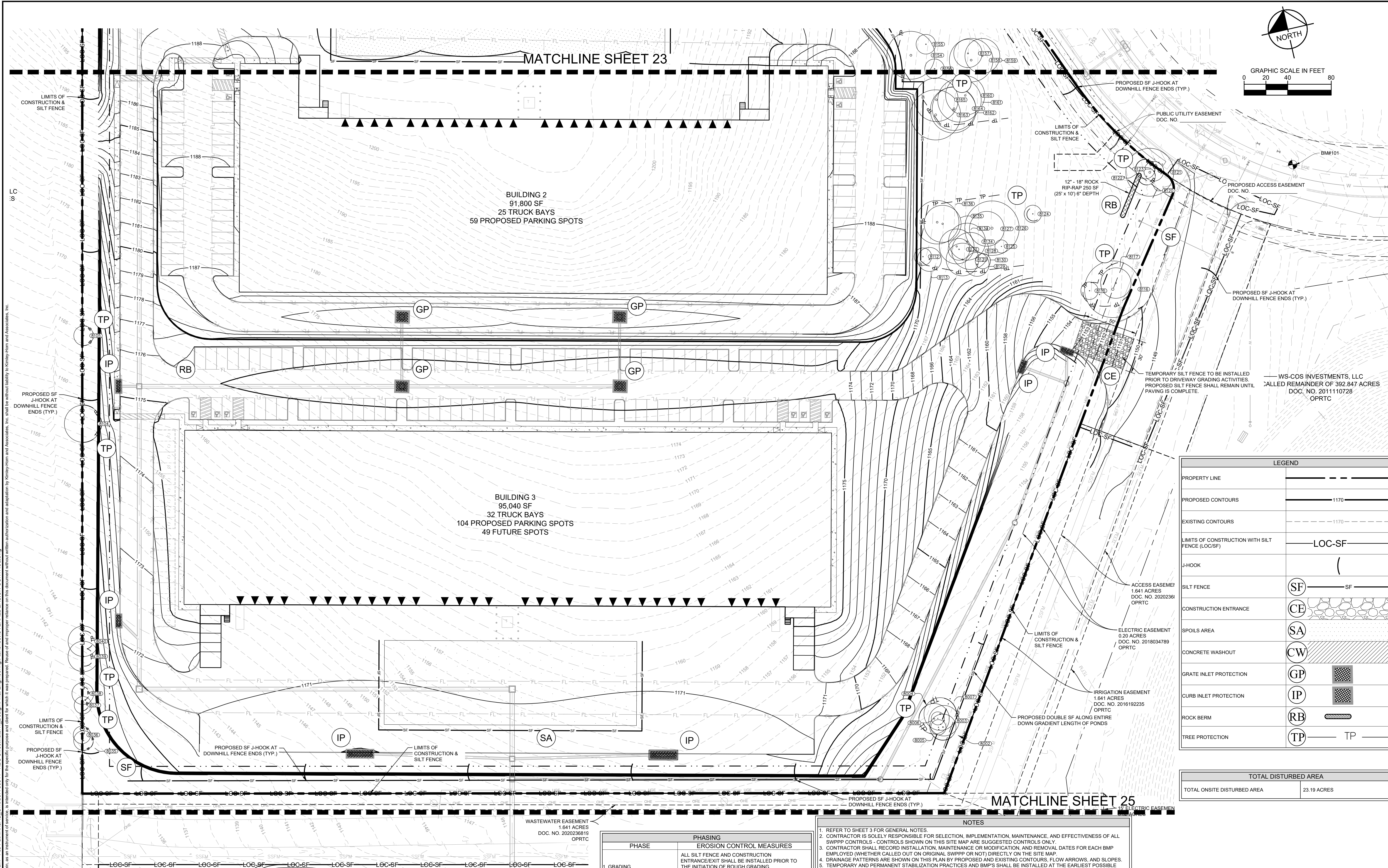
PHASING	
PHASE	EROSION CONTROL MEASURES
1. GRADING	ALL SILT FENCE AND CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING. CONSTRUCTION ENTRANCE TO BE INSTALLED AT THIS TIME.
2. UTILITY INSTALLATION	ALL SILT FENCE SHALL BE INSTALLED PRIOR TO THE INITIATION OF ALL UTILITY CONSTRUCTION, UPON THE COMPLETION OF STORM SEWER INSTALLATION, INLET PROTECTORS TO BE INSTALLED.
3. PAVING/BUILDING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
4. SOIL STABILIZATION/LANDSCAPING	AFTER SITE CONSTRUCTION AND PAVING PHASE, CONTRACTOR TO EXCAVATE BOTTOM OF POND AND REMOVE SEDIMENT TRAP. REMOVE TEMPORARY ENTRANCE/EXIT AND INLET PROTECTION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING FINE GRADING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
TOTAL DISTURBED AREA	
TOTAL ON SITE DISTURBED AREA	23.19 ACRES

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. ELEV=1157.662' (NAVD '88)



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<p>EROSION CONTROL PLAN (1 OF 2)</p>	<p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p>
<p>SHEET NUMBER 23 OF 44</p>	<p>NO. _____ DATE _____ REVISIONS _____</p>



LEGEND	
PROPERTY LINE	---
PROPOSED CONTOURS	1170
EXISTING CONTOURS	1170
LIMITS OF CONSTRUCTION WITH SILT FENCE (LOC/SF)	LOC-SF
J-HOOK	()
SILT FENCE	(SF)
CONSTRUCTION ENTRANCE	(CE)
SPOILS AREA	(SA)
CONCRETE WASHOUT	(CW)
GRATE INLET PROTECTION	(GP)
CURB INLET PROTECTION	(IP)
ROCK BERM	(RB)
TREE PROTECTION	(TP)

TOTAL DISTURBED AREA	
TOTAL ONSITE DISTURBED AREA	23.19 ACRES

TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES NOTES

- IF A CONCRETE WASHOUT IS TO BE UTILIZED DURING CONSTRUCTION ADD A NOTE ON THE PLAN SHEETS THAT STATES THE LOCATION WILL BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND WILL BE PROPERLY NOTATED ON THE SITE MAP AT THAT TIME.
- ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ONSITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
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- INSTALL SILT FENCE ACCORDINGLY FOR RUN-ON DIVERSION OR OFFSITE SEDIMENT CONTROL DEPENDING ON UP OR DOWN SLOPE, FACING POST SIDE ON THE DOWN GRADIENT SIDE.
- ALL ESC USED ONSITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
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- COUNTY INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE AS NEEDED.
- TEMPORARY ESCS SHALL REMAIN IN PLACE IN ALL DISTURBED AREAS UNTIL ADEQUATE STABILIZATION HAS BEEN ACHIEVED.
- CONTRACTOR MUST REMOVE SEDIMENT FROM ALL STORM SEWER INLET BOXES, LINES, PIPES AND CULVERTS BEFORE CONDITIONAL/FINAL ACCEPTANCE CAN BE OBTAINED.
- TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
- NO CONSTRUCTION EQUIPMENT OR VEHICLES WILL BE ALLOWED OUTSIDE THE LOC.
- PERMITTEE SHALL INSPECT ALL INLET PROTECTION DEVICES AS PART OF THE WEEKLY SWP3 REPORT, UPON RECEIVING A FORECAST CALLING FOR A RAIN EVENT FOR AN EXTENDED PERIOD, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.

PHASE	PHASING
1. GRADING	EROSION CONTROL MEASURES ALL SILT FENCE AND CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING. CONSTRUCTION ENTRANCE TO BE INSTALLED AT THIS TIME.
2. UTILITY INSTALLATION	ALL SILT FENCE SHALL BE INSTALLED PRIOR TO THE INITIATION OF ALL UTILITY CONSTRUCTION. UPON THE COMPLETION OF STORM SEWER INSTALLATION, INLET PROTECTORS TO BE INSTALLED.
3. PAVING/BUILDING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
4. SOIL STABILIZATION /LANDSCAPING	AFTER SITE CONSTRUCTION AND PAVING PHASE, CONTRACTOR TO EXCAVATE BOTTOM OF POND AND REMOVE SEDIMENT TRAP. REMOVE TEMPORARY ENTRANCE/EXIT AND INLET PROTECTION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING FINE GRADING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

- NOTES**
- REFER TO SHEET 3 FOR GENERAL NOTES.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
 - CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
 - DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
 - TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
 - BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOP OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
 - SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.
 - IN AREAS WITH 4:1 SLOPES, CONTRACTOR TO INSTALL SOIL RETENTION BLANKET IF NECESSARY.
 - ALL SAWCUT WATER SHALL BE VACUUMED AND DISPOSED PROPERLY (I.E. CONCRETE WASHOUT PIT).
 - ALL HYPERCHLORINATED WATER AND BLOW OFF WATER SHALL BE DISCHARGED INTO SANITARY SEWER SYSTEM.
 - CONTRACTOR SHALL HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T., AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.
 - SOIL TRACKED ONTO PUBLIC ROADS MUST BE REMOVED AT A FREQUENCY THAT MINIMIZES SITE IMPACTS AND PRIOR TO THE NEXT RAIN EVENT, IF FEASIBLE.
 - USING WATER TO WASH SEDIMENT FROM STREETS IS PROHIBITED.
 - CONTRACTOR SHALL PROVIDE CLASS 1 TYPE A MATTING BONET SC1508N IN AREAS THAT EXCEED 3:1 SLOPES. REFER TO SHEET 09 - STABILIZATION AND RESTORATION DETAILS FOR PROPOSED RESTORATION AND STABILIZATION INFORMATION.
 - ANY MULCH THAT IS CREATED SHOULD BE RETAINED AND STOCKPILED ON SITE TO BE USED AS TEMPORARY/TRANSITIONAL STABILIZATION MEASURES AS NEEDED/REQUIRED.

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. +28' SOUTH OF CROSS PEAK DRIVE CENTERLINE. ELEV=1157.662' (NAVD '88)



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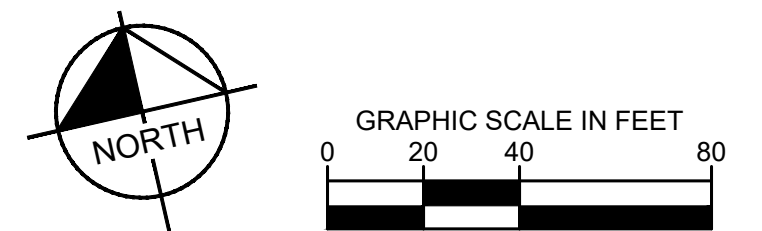
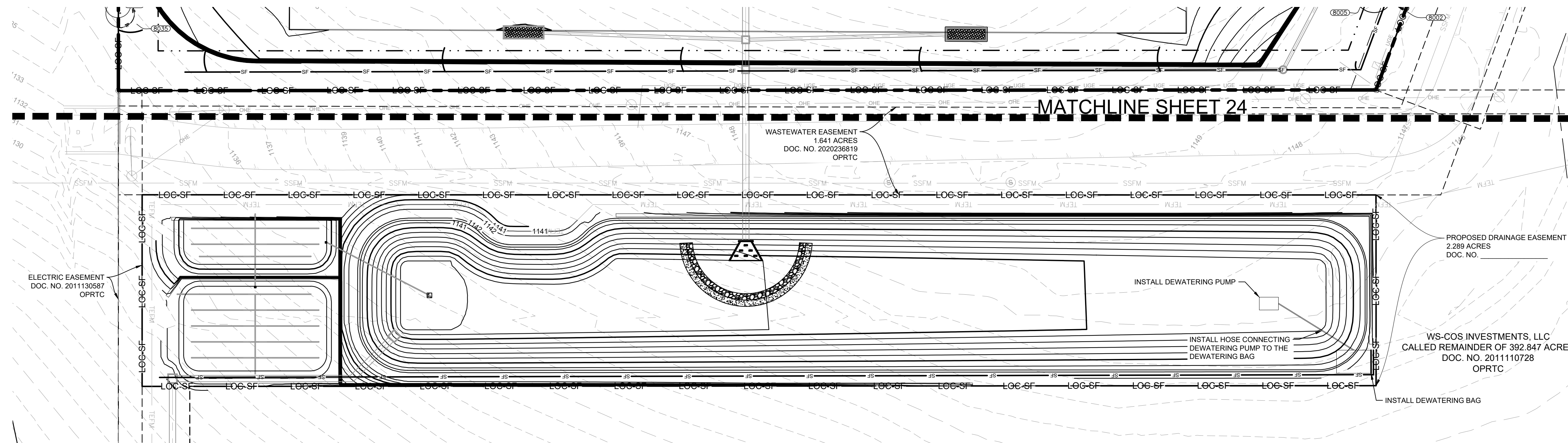
EROSION CONTROL PLAN (2 OF 2)

**SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS**

SHEET NUMBER
24 OF 44

NO.	REVISIONS	DATE	BY

Plotted By: blakop, Ryan Date: August 15, 2023 09:10:38am File Path: K:\SAU_Civil\067786844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\Overall Erosion Control.dwg
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LEGEND	
PROPERTY LINE	---
PROPOSED CONTOURS	--- 1170
EXISTING CONTOURS	- - - 1170
LIMITS OF CONSTRUCTION (LOC)	▬
SILT FENCE	(SF) — SF
CONSTRUCTION ENTRANCE	(CE) [Pattern]
GRATE INLET PROTECTION	(GP) [Pattern]
CURB INLET PROTECTION	(IP) [Pattern]
ROCK BERM	(RB) [Pattern]

- NOTES**
- REFER TO SHEET 3 FOR GENERAL NOTES.
 - CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
 - CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
 - DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
 - TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
 - BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
 - SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.
 - IN AREAS WITH 4:1 SLOPES, CONTRACTOR TO INSTALL SOIL RETENTION BLANKET IF NECESSARY.
 - ALL SAWCUT WATER SHALL BE VACUUMED AND DISPOSED PROPERLY (I.E. CONCRETE WASHOUT PIT).
 - ALL HYPERCHLORINATED WATER AND BLOW OFF WATER SHALL BE DISCHARGED INTO SANITARY SEWER SYSTEM.
 - CONTRACTOR SHALL HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTAL OF N.O.I., N.O.T., AND ANY ADDITIONAL INFORMATION REQUIRED BY THE E.P.A. CONTRACTOR SHALL COMPLY WITH ALL E.P.A. STORM WATER POLLUTION PREVENTION REQUIREMENTS.
 - SOIL TRACKED ONTO PUBLIC ROADS MUST BE REMOVED AT A FREQUENCY THAT MINIMIZES SITE IMPACTS AND PRIOR TO THE NEXT RAIN EVENT, IF FEASIBLE.
 - USING WATER TO WASH SEDIMENT FROM STREETS IS PROHIBITED.
 - CONTRACTOR SHALL PROVIDE CLASS 1 TYPE A MATTING BIOMAT SC150BN IN AREAS THAT EXCEED 3:1 SLOPES. REFER TO SHEETS 38 - STABILIZATION AND RESTORATION PLAN AND 39 - STABILIZATION AND RESTORATION DETAILS FOR PROPOSED RESTORATION AND STABILIZATION INFORMATION.

- TRAVIS COUNTY TRANSPORTATION AND NATURAL RESOURCES NOTES**
- IF A CONCRETE WASHOUT IS TO BE UTILIZED DURING CONSTRUCTION ADD A NOTE ON THE PLAN SHEETS THAT STATES THAT THE LOCATION WILL BE DETERMINED ONCE CONSTRUCTION HAS BEGUN AND WILL BE PROPERLY NOTATED ON THE SITE MAP AT THAT TIME.
 - ALL REQUIRED NOTICES AND PERMITS MUST BE PLACED IN A HIGHLY VISIBLE LOCATION ONSITE BEFORE THE COMMENCEMENT OF CONSTRUCTION.
 - ALL EROSION AND SEDIMENTATION CONTROLS (ESC) MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO THE PROJECT SITE.
 - INSTALL SILT FENCE ACCORDINGLY FOR RUN-ON DIVERSION OR OFFSITE SEDIMENT CONTROL DEPENDING ON UP OR DOWN SLOPE, FACING POST SIDE ON THE DOWN GRADIENT SIDE.
 - ALL ESC USED ONSITE MUST BE REGULARLY MONITORED AND MAINTAINED AS NEEDED.
 - MUD AND OR DIRT TRACKED INTO THE ROADWAY MUST BE IMMEDIATELY REMOVED UPON DISCOVERY.
 - EXCESS MATERIALS THAT WILL BE TRANSPORTED TO AN OFFSITE LOCATION MUST HAVE THAT LOCATION CLEARED BY COUNTY INSPECTOR.
 - LOOSE TRASH AND DEBRIS MUST BE DISPOSED OF PROPERLY ONSITE.
 - CONTRACTOR SHALL MAINTAIN AND UTILIZE DUST CONTROL FOR THE DURATION OF THE PROJECT.
 - THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING ONTO THE PUBLIC ROADWAY ON AN ONGOING/REGULAR BASIS.
 - INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON INLET INSTALLATION.
 - INITIATE TEMPORARY STABILIZATION WHEN CONSTRUCTION CEASES IN A DISTURBED AREA FOR 14 DAYS.
 - INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED.
 - ALL DISTURBED/BARE AREAS WILL REQUIRE PERMANENT STABILIZATION BEFORE FINAL ACCEPTANCE CAN BE ACHIEVED. AVOID DISTURBING AREAS OF THE PROJECT THAT ARE NOT NECESSARY FOR CONSTRUCTION.
 - COUNTY INSPECTOR MAY REQUEST ADDITIONAL CONTROLS BE INSTALLED ONSITE AS NEEDED.
 - TEMPORARY ESC'S SHALL REMAIN IN PLACE IN ALL DISTURBED AREAS UNTIL ADEQUATE STABILIZATION HAS BEEN ACHIEVED.
 - CONTRACTOR MUST REMOVE SEDIMENT FROM ALL STORM SEWER INLET BOXES, LINES, PIPES AND CULVERTS BEFORE CONDITIONAL/FINAL ACCEPTANCE CAN OBTAINED.
 - TRAVIS COUNTY REQUIRES CERTIFIED SWP3 INSPECTORS TO CONDUCT SWP3 INSPECTIONS AND REPORTING ON ALL PROJECTS WITH ONE ACRE OF DISTURBANCE AND LARGER.
 - NO CONSTRUCTION EQUIPMENT OR VEHICLES WILL BE ALLOWED OUTSIDE THE LOC. PERMITTEE SHALL INSPECT ALL INLET PROTECTION DEVICES AS PART OF THE WEEKLY SWP3 REPORT. UPON RECEIVING A FORECAST CALLING FOR A RAIN EVENT FOR AN EXTENDED PERIOD, MODIFICATION OF INLET PROTECTION SHOULD BE MADE TO PREVENT FLOODING OR PONDING OF WATER IF TRAFFIC OR PROPERTY CONCERNS ARISE.

PHASING	
PHASE	EROSION CONTROL MEASURES
1. GRADING	ALL SILT FENCE AND CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO THE INITIATION OF ROUGH GRADING. CONSTRUCTION ENTRANCE TO BE INSTALLED AT THIS TIME.
2. UTILITY INSTALLATION	ALL SILT FENCE SHALL BE INSTALLED PRIOR TO THE INITIATION OF ALL UTILITY CONSTRUCTION. UPON THE COMPLETION OF STORM SEWER INSTALLATION, INLET PROTECTORS TO BE INSTALLED.
3. PAVING/BUILDING	ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING PAVING AND THROUGHOUT THE REMAINDER OF THE PROJECT.
4. SOIL STABILIZATION LANDSCAPING	AFTER SITE CONSTRUCTION AND PAVING PHASE, CONTRACTOR TO EXCAVATE BOTTOM OF POND AND REMOVE SEDIMENT TRAP. REMOVE TEMPORARY ENTRANCE/EXIT AND INLET PROTECTION. ALL PRIOR EROSION CONTROL MEASURES INSTALLED ABOVE TO BE MAINTAINED DURING FINE GRADING AND THROUGHOUT THE REMAINDER OF THE PROJECT.

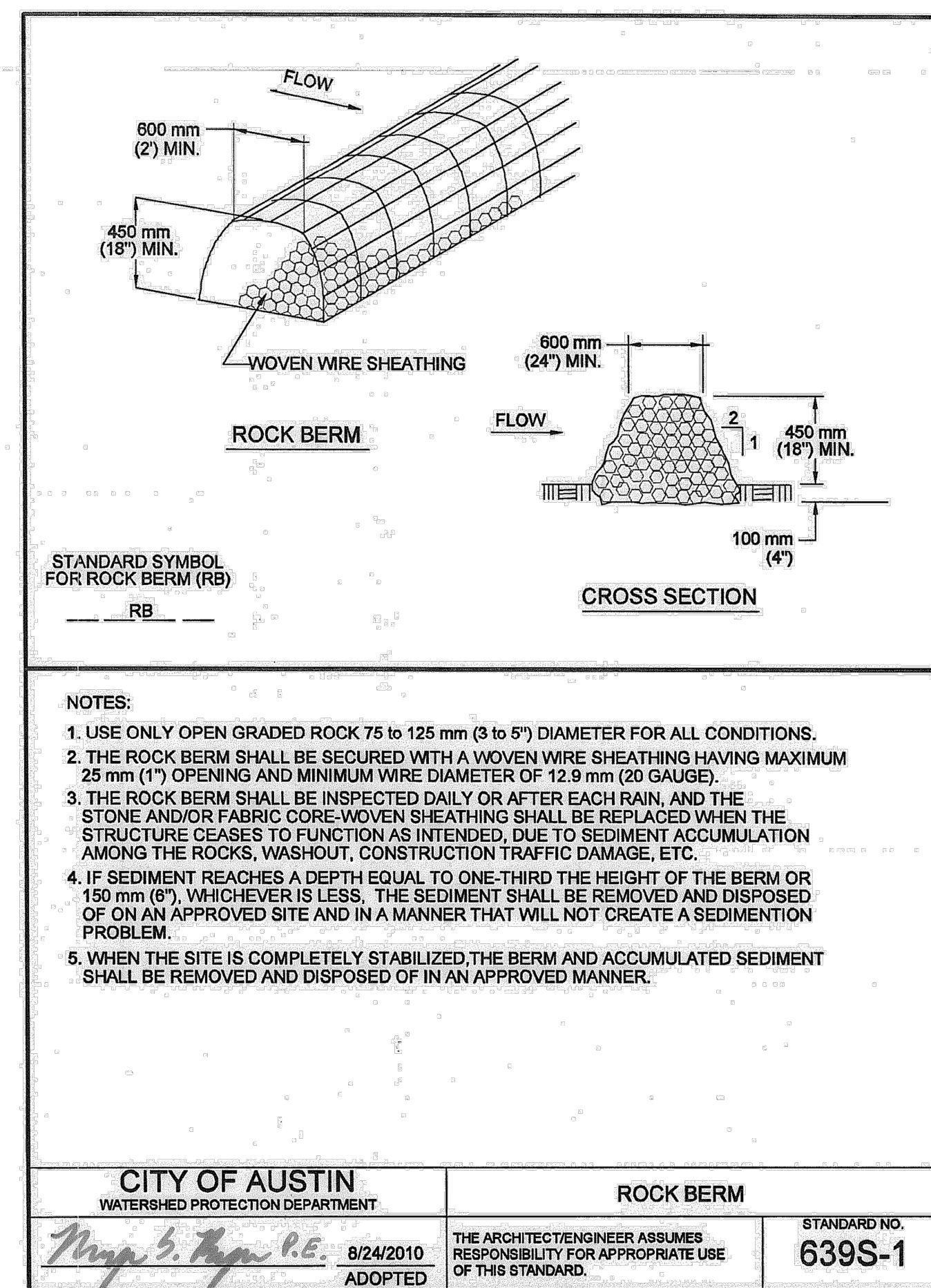
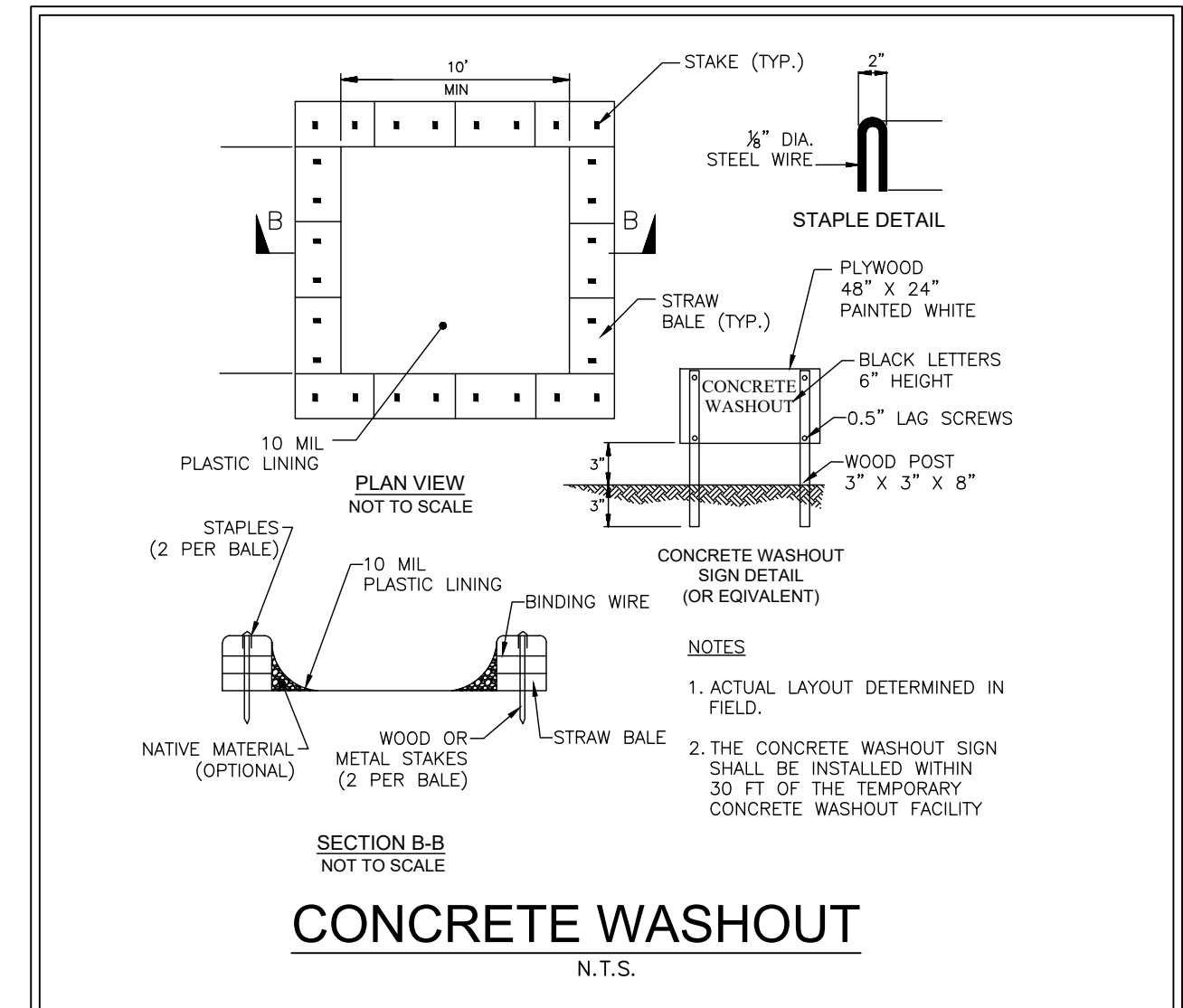
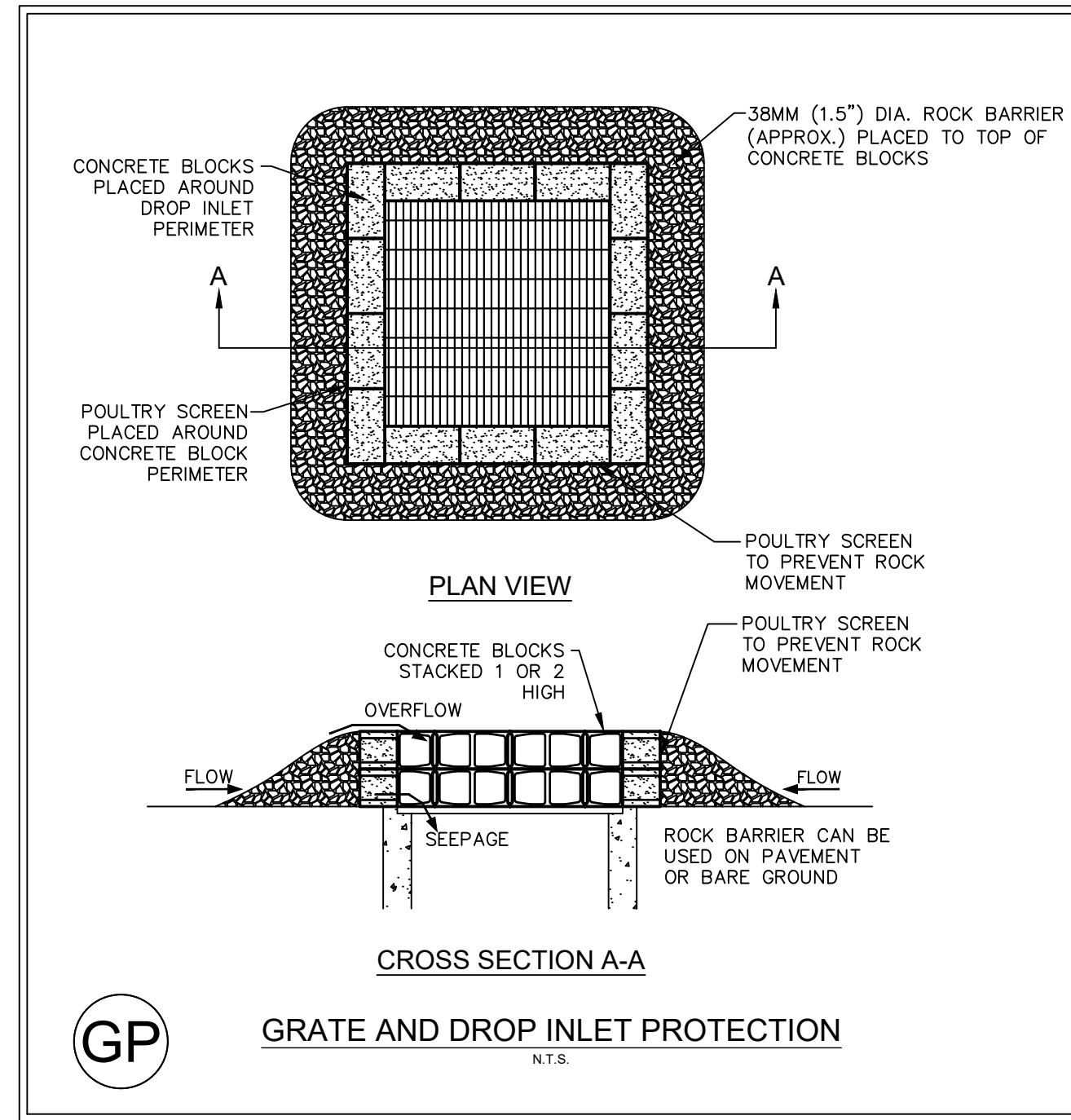
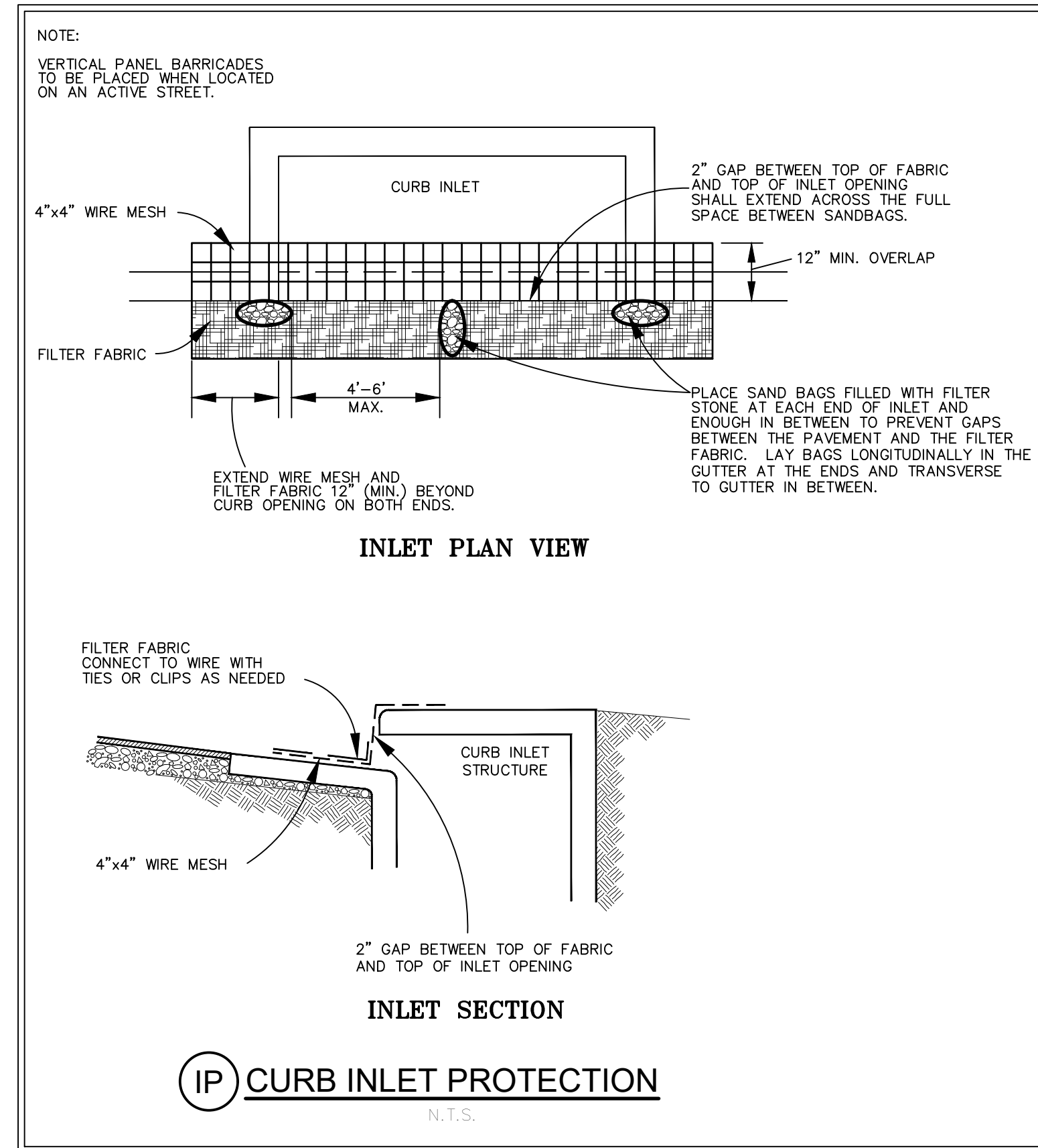
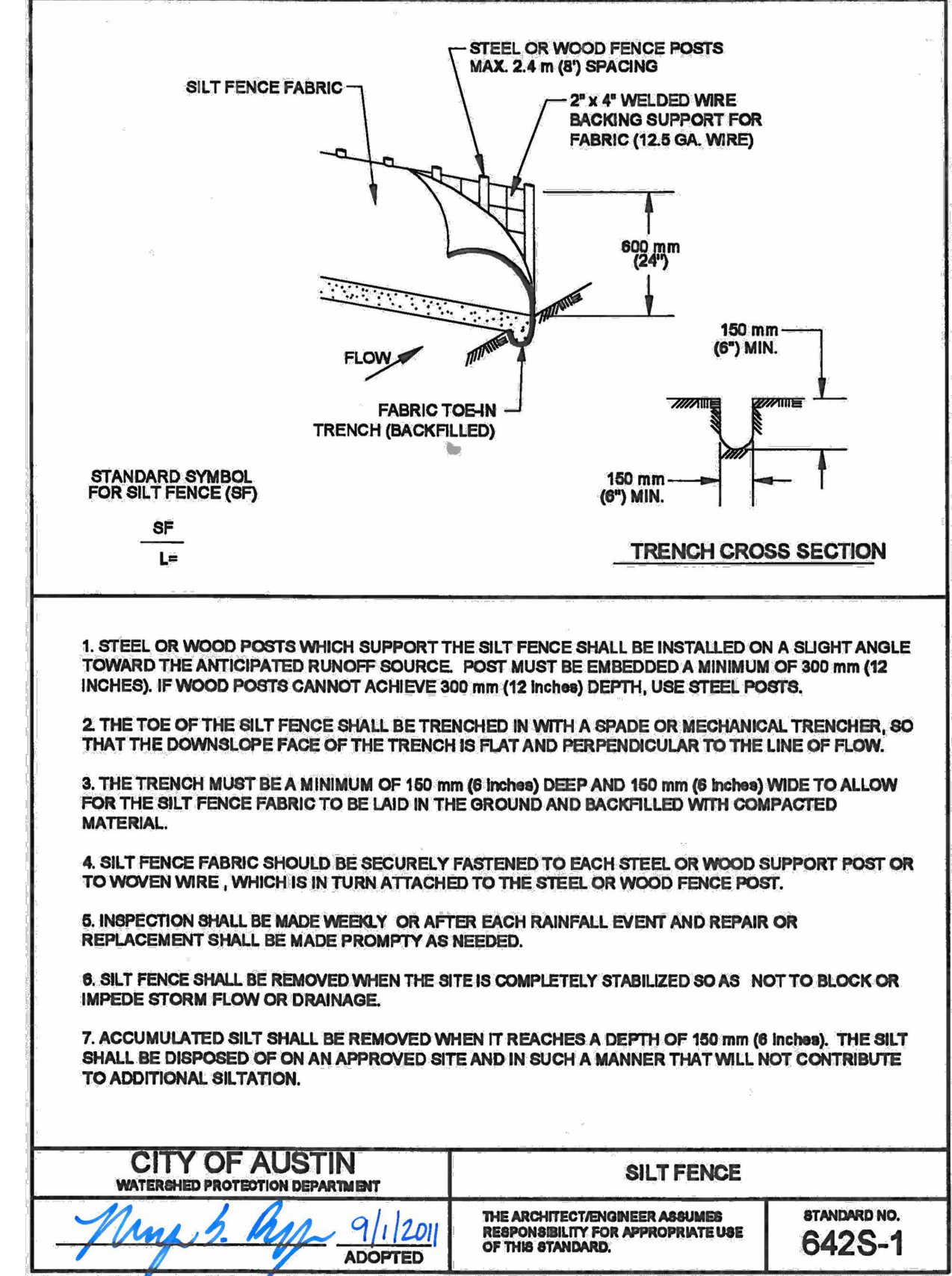
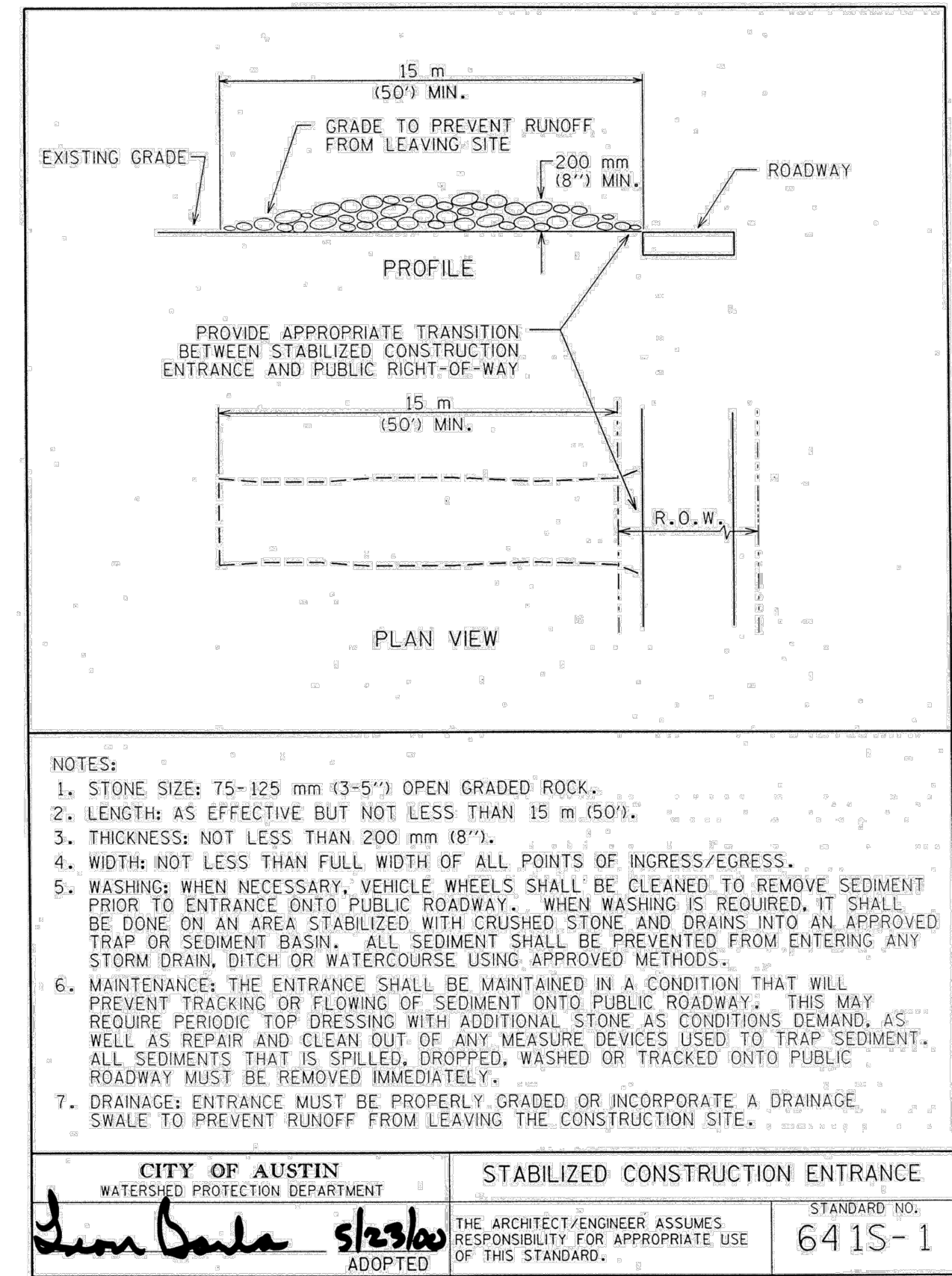
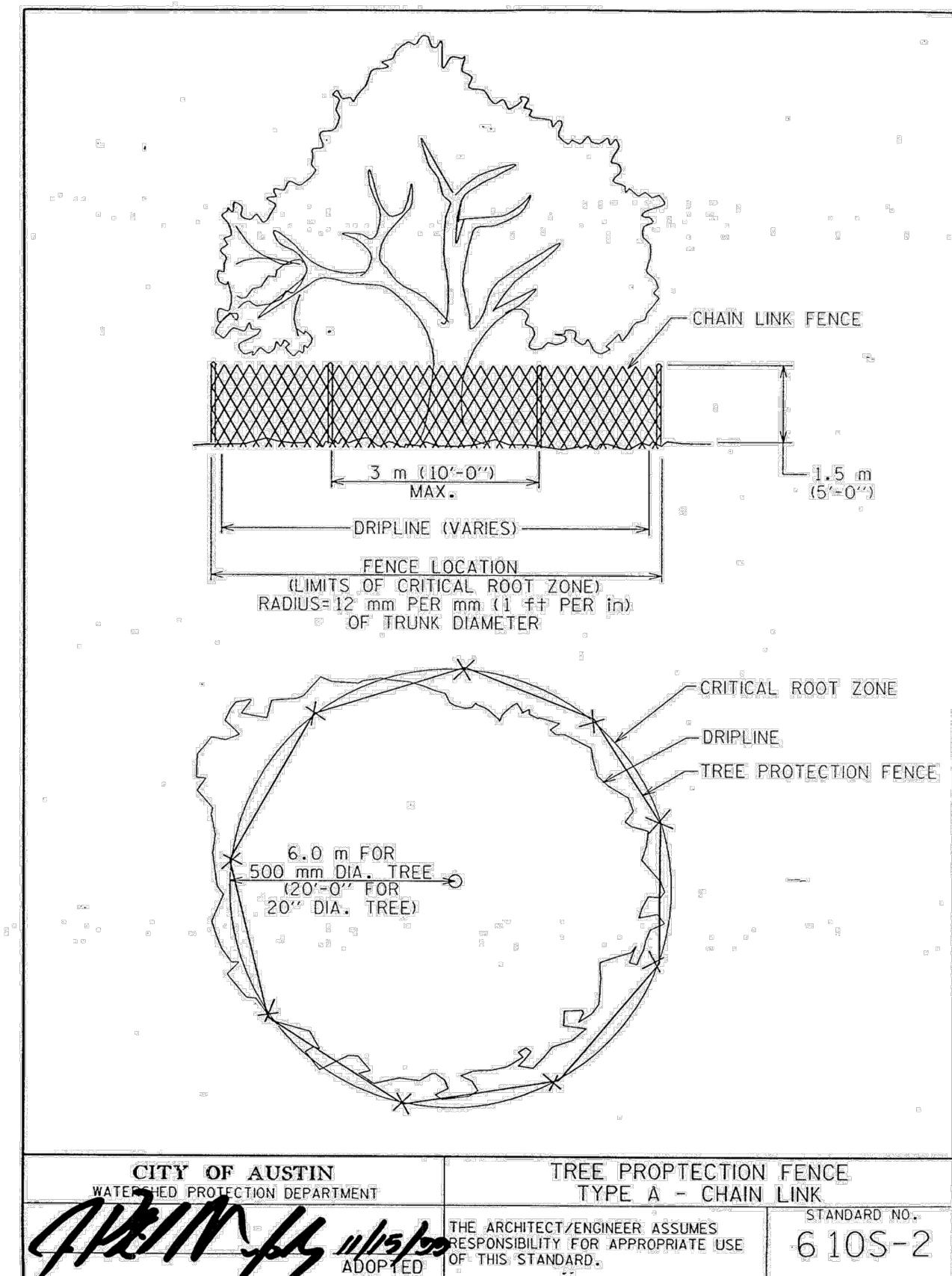
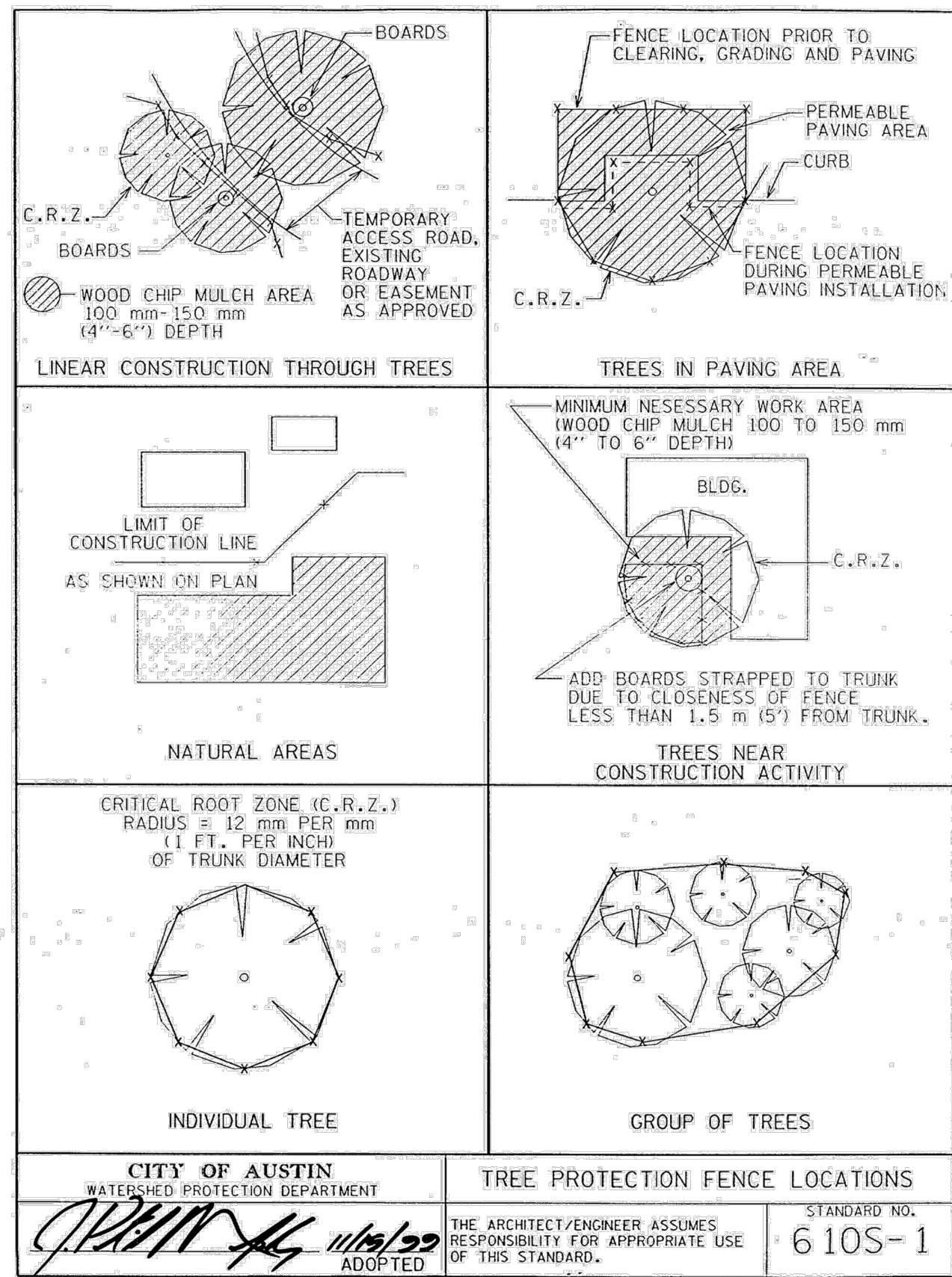
TOTAL DISTURBED AREA	
TOTAL ONSITE DISTURBED AREA	23.19 ACRES

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. ELEV=1157.66' (NAVD '88)



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	<p>EROSION CONTROL PLAN (3 OF 3)</p> <p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p> <p>SHEET NUMBER 25 OF 44</p>			



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)
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TEXAS REGISTERED ENGINEERING FIRM F-928

EROSION CONTROL DETAILS

SWEETWATER CROSSING
LAST MILE FACILITY
CITY OF BEE CAVE
TRAVIS COUNTY, TEXAS

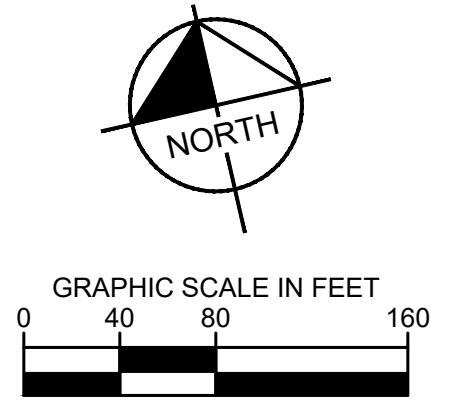
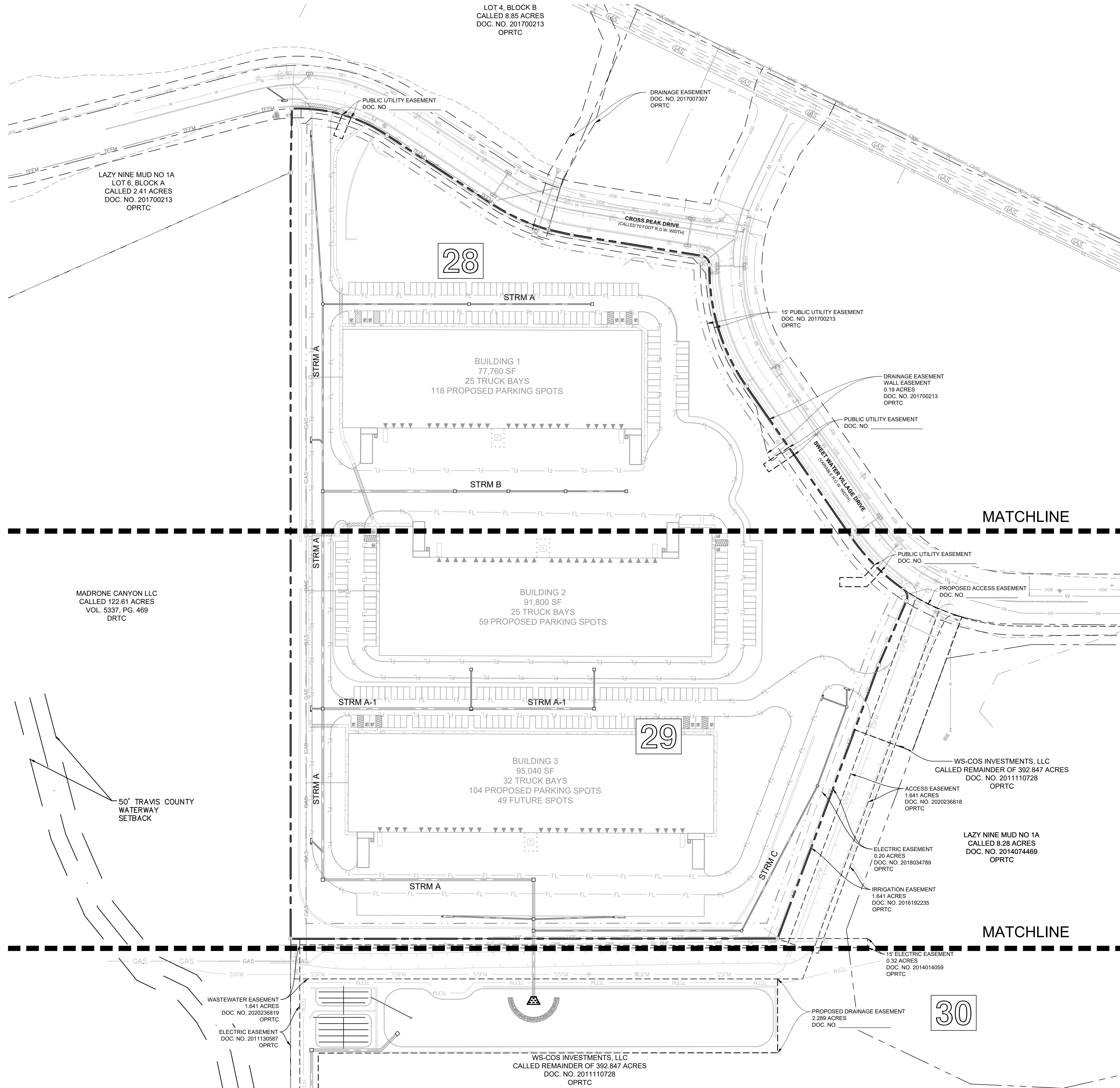
REVISIONS

NO.	DATE	BY

SHEET NUMBER
26 OF 44

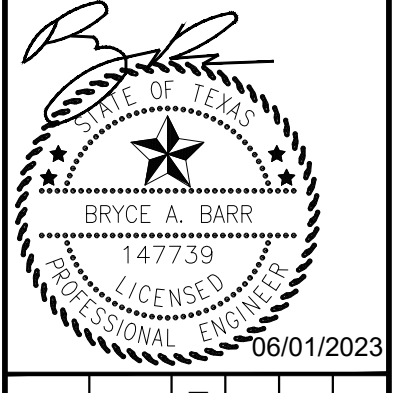
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 TEXAS REGISTERED ENGINEERING FIRM F-928



KHA PROJECT	067786844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY:	RSB
DRAWN BY:	CRS
CHECKED BY:	BAB

**OVERALL STORM
 SEWER PLAN**

**SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS**

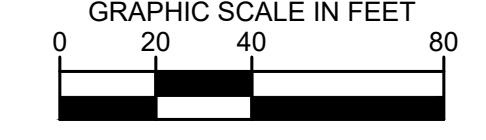
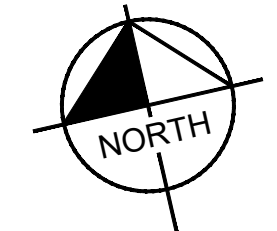
CAUTION!
 EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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

BENCHMARKS

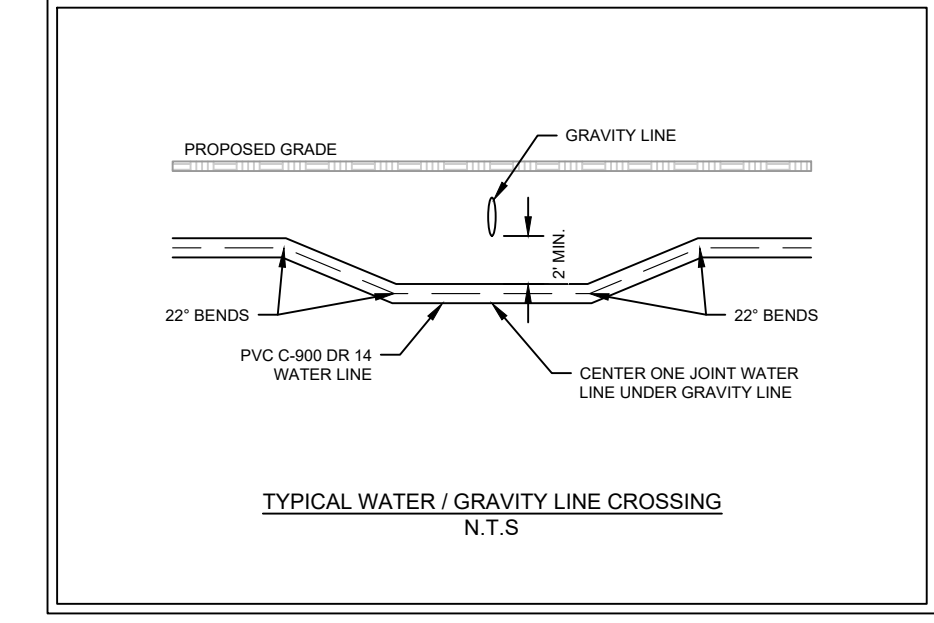
BM #101 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, +690' EAST OF CROSS PEAK DRIVE CENTERLINE.
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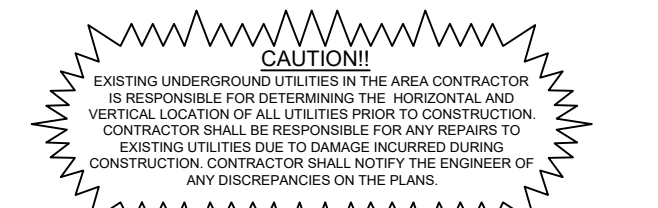


LEGEND	
PROPERTY LINE	---
EASEMENT	---
PROPOSED WATER LINE	—W—W—
PROPOSED SANITARY SEWER LINE	—SS—SS—
PROPOSED STORM DRAIN LINE	—SD—SD—
EXISTING WATER LINE	—W—W—
EXISTING SANITARY SEWER LINE	—SS—SS—
EXISTING STORM DRAIN LINE	—SD—SD—
EXISTING UNDER GROUND ELECTRIC	—UGE—
EXISTING GAS LINE	—GAS—
EXISTING OVERHEAD POWER LINE	—OHE—
EXISTING SANITARY SEWER FORCE MAIN	—SSFM—
EXISTING TREATED EFFLUENT FORCE MAIN	—TEFM—
PROPOSED FIRE HYDRANT	⊕
PROPOSED WATER METER	⊕
PROPOSED FITTING	⊕
PROPOSED VALVE	⊕
PROPOSED MANHOLE	⊕
EXISTING VALVE	⊕
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING STORM SEWER MANHOLE	⊕

- NOTES**
- REFER TO SHEET 3 FOR GENERAL NOTES.
 - REFER TO THE CITY OF AUSTIN STANDARD CONSTRUCTION DETAILS FOR STORM SEWER STRUCTURES AND EMBEDMENT.
 - ALL PROPOSED JUNCTION BOXES SHALL BE DESIGNED IN ACCORDANCE WITH TxDOT STANDARDS. REFER TO CONSTRUCTION DETAILS FOR TxDOT DESIGN STANDARDS AND DETAILS.
 - MANHOLE RINGS MAY NOT BE PLACED IN THE CURB. CONE SECTION TO BE REPLACED WITH ECCENTRIC CONE SECTION IF NECESSARY.
 - USE 4" JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100'.
 - REFER TO MEP PLANS FOR STORM LINES WITHIN 5' AND UNDERNEATH BUILDING.
 - 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 COUNTY.
 - REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS.
 - REFER TO CONTECH PLANS FOR UNDERGROUND WATER QUALITY EQUALIZATION SYSTEM, UNDERGROUND DETENTION SYSTEM, STORM FILTER VAULT, AND FILTERRA CURB INLET DESIGN STANDARDS AND DETAILS.
 - 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 UTILITIES.
 - 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 DISCREPANCIES.
 - 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 WALL
 C) PVC - ASTM D 3034 SDR35
 - ALL EXISTING AND PROPOSED PIPES AND STRUCTURES ARE TO BE CLEANED OUT AT THE COMPLETION OF CONSTRUCTION TO REMOVE ALL SILT AND DEBRIS.
 - ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
 - 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 SHALL BE LABELED "STORM SEWER".
 - ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
 - IF PERCHED WATER IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT KIMLEY-HORN AND ECS SOUTHWEST FOR GUIDANCE.

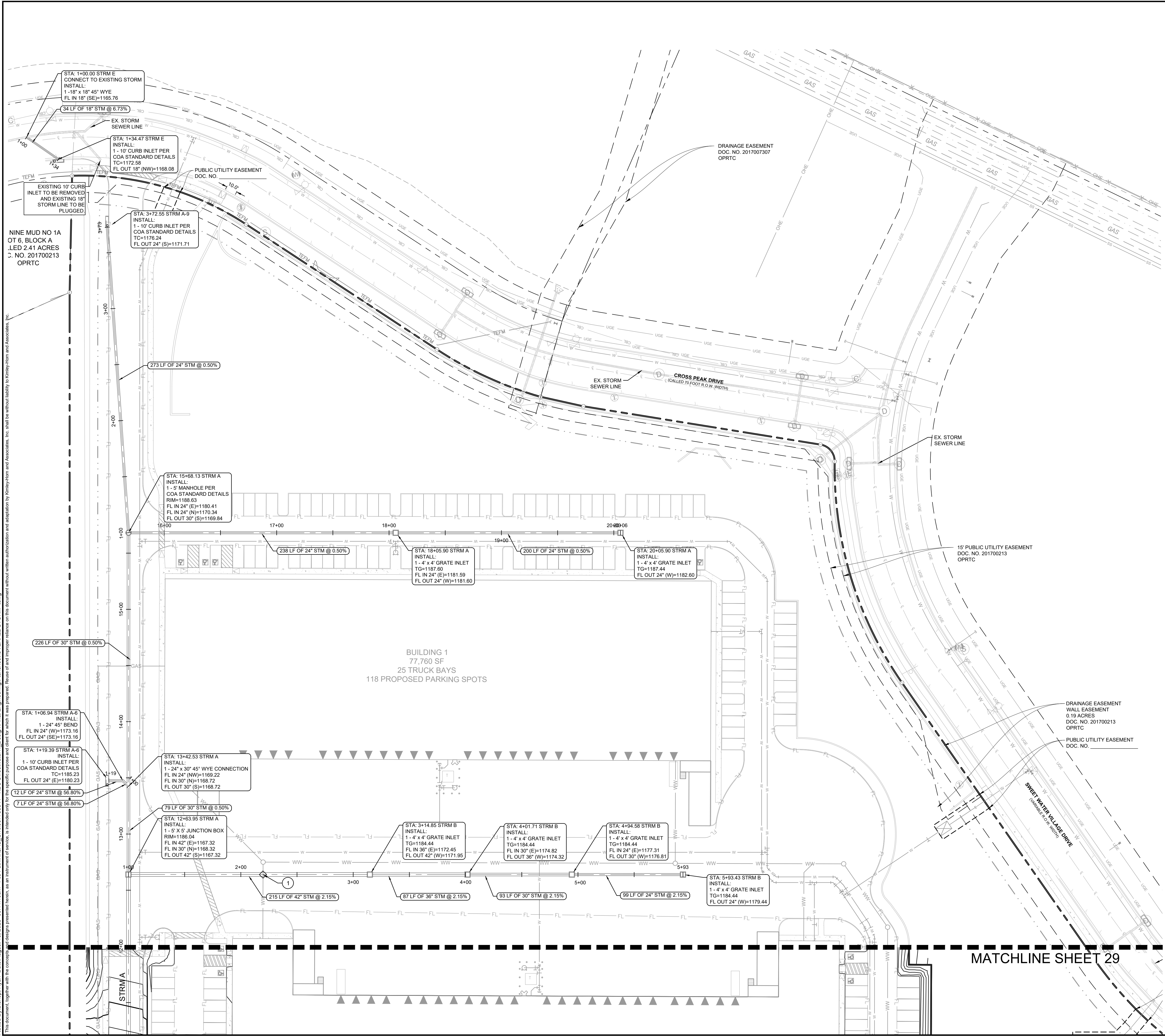


#	CROSSING	BOTTOM ELEV.	TOP ELEV.
1	6" SSWR OVER 42" STORM	6' - 1180.19'	42' - 1173.50'



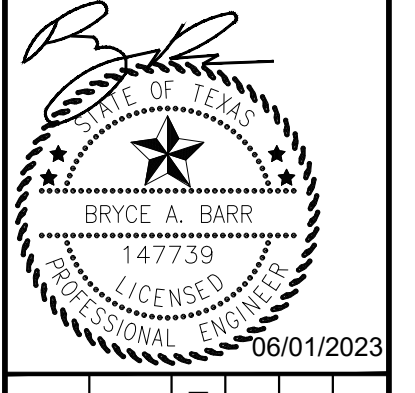
BENCHMARKS

- BM #101 PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE, 4590' 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, 238' SOUTH OF CROSS PEAK DRIVE CENTERLINE.
ELEV=1157.66' (NAVD '88)



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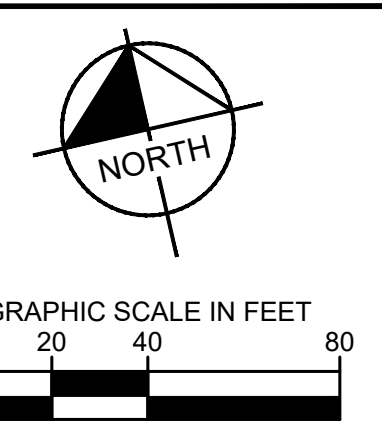
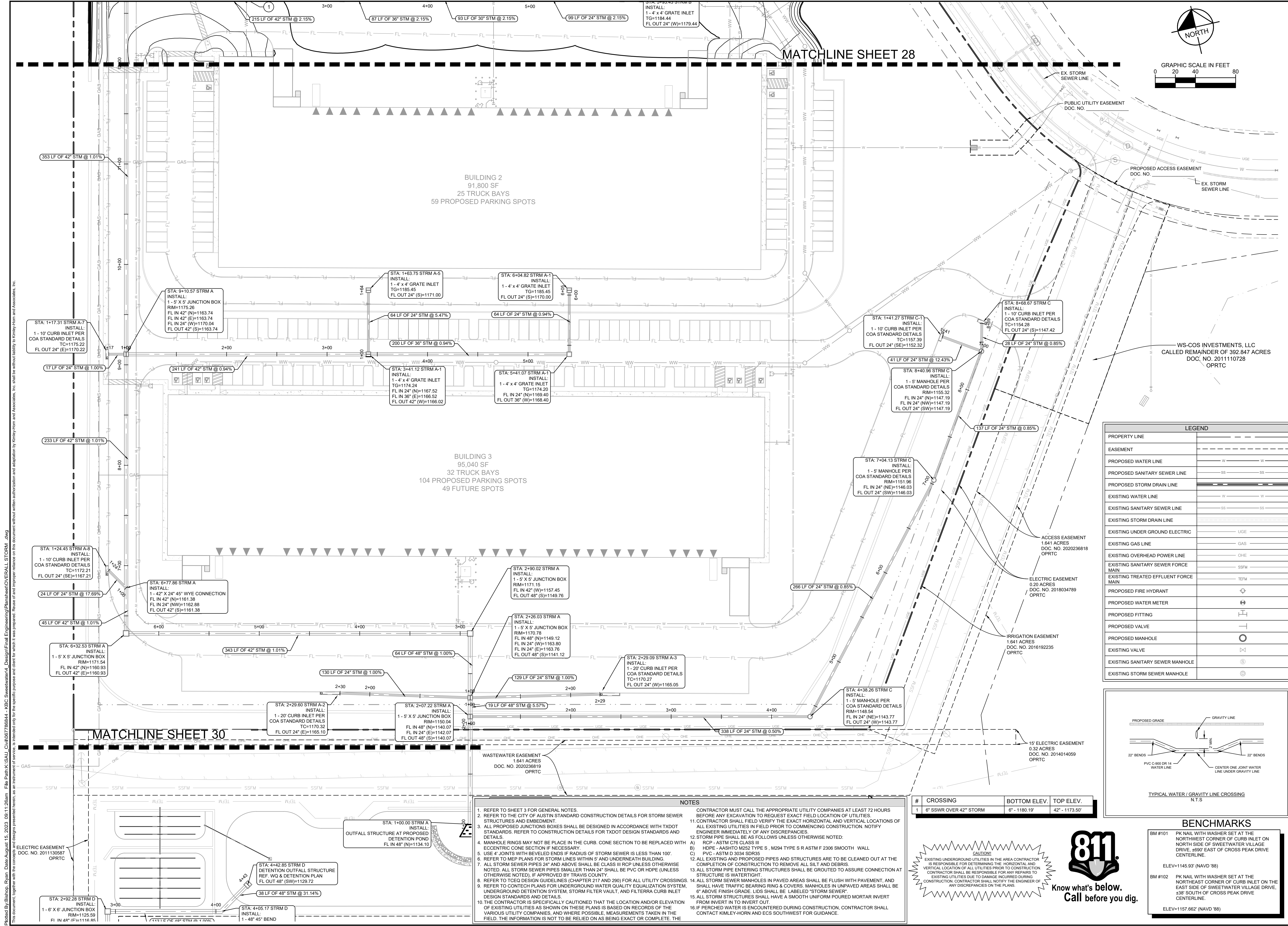
KHA PROJECT	06768844
DATE	02/23/2023
SCALE	AS SHOWN
DESIGNED BY	RSB
DRAWN BY	CRS
CHECKED BY	BAB

**STORM SEWER PLAN
(1 OF 3)**

**SWEETWATER CROSSING
LAST MILE FACILITY
CITY OF BEE CAVE
TRAVIS COUNTY, TEXAS**

SHEET NUMBER
28 OF 44

Plotted By: blalop, Ryan Date: August 15, 2023 09:11:18am File Path: K:\SASU_Civil\067788844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\OVERALL STORM.dwg
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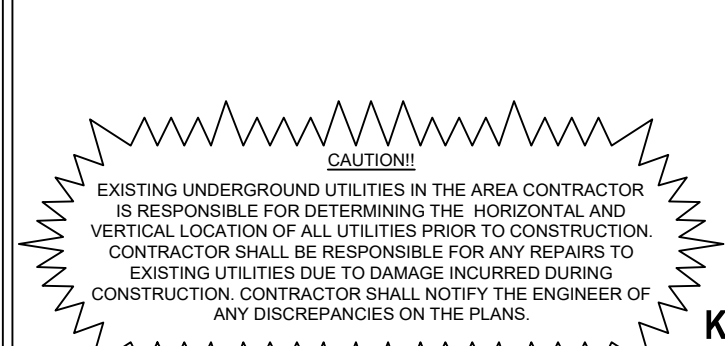
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DATE: 02/23/2023
SCALE: AS SHOWN
DESIGNED BY: RSB
DRAWN BY: CRS
CHECKED BY: BAB

STORM SEWER PLAN
(2 OF 3)

SWEETWATER CROSSING
LAST MILE FACILITY
CITY OF BEE CAVE
TRAVIS COUNTY, TEXAS

SHEET NUMBER
29 OF 44

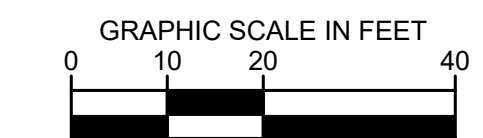
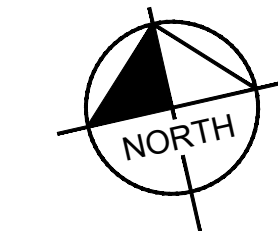
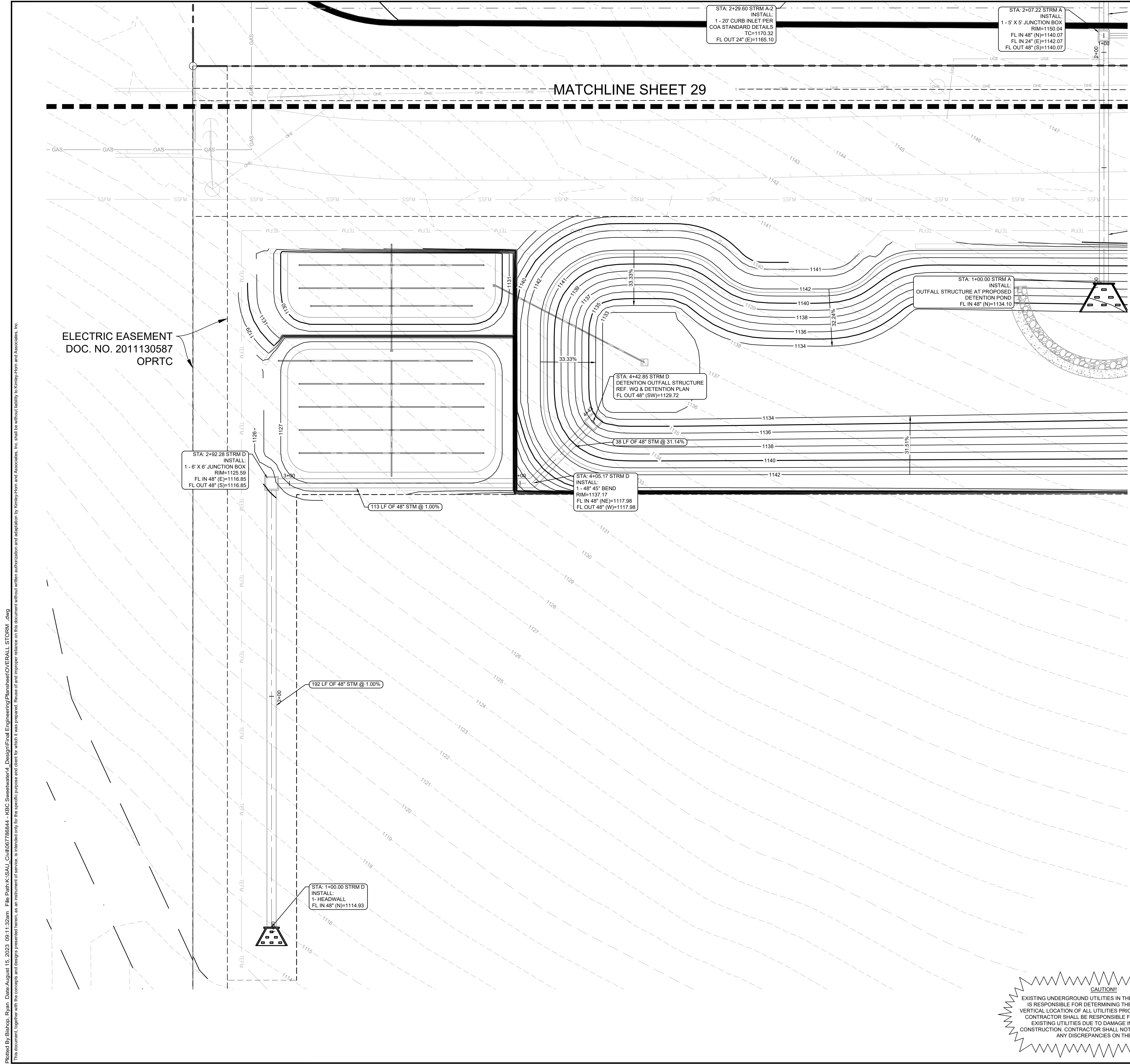
#	CROSSING	BOTTOM ELEV.	TOP ELEV.
1	6" SWR OVER 42" STORM	6' - 1180.19'	42' - 1173.50'



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. ELEV=1157.662' (NAVD '88)

Plotted by: Blalock, Ryan Date: August 15, 2023 09:11:28am File Path: K:\SASU_Civil\06726844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\OVERALL STORM.dwg
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LEGEND	
PROPERTY LINE	---
EASEMENT	---
PROPOSED WATER LINE	—W—W—
PROPOSED SANITARY SEWER LINE	—SS—SS—
PROPOSED STORM DRAIN LINE	—SD—SD—
EXISTING WATER LINE	—W—W—
EXISTING SANITARY SEWER LINE	—SS—SS—
EXISTING STORM DRAIN LINE	—SD—SD—
EXISTING UNDER GROUND ELECTRIC	—UG—
EXISTING GAS LINE	—GAS—
EXISTING OVERHEAD POWER LINE	—OHE—
EXISTING SANITARY SEWER FORCE MAIN	—SSFM—
EXISTING TREATED EFFLUENT FORCE MAIN	—TEFM—
PROPOSED FIRE HYDRANT	⊕
PROPOSED WATER METER	⊕
PROPOSED FITTING	⊕
PROPOSED VALVE	⊕
PROPOSED MANHOLE	⊕
EXISTING VALVE	⊕
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING STORM SEWER MANHOLE	⊕

- NOTES**
- REFER TO SHEET 3 FOR GENERAL NOTES.
 - REFER TO THE CITY OF TRAVIS COUNTY STANDARD CONSTRUCTION DETAILS FOR STORM SEWER STRUCTURES AND EMBEDMENT.
 - ALL PROPOSED JUNCTION BOXES SHALL BE DESIGNED IN ACCORDANCE WITH TXDOT STANDARDS. REFER TO CONSTRUCTION DETAILS FOR TXDOT DESIGN STANDARDS AND DETAILS.
 - MANHOLE RINGS MAY NOT BE PLACED IN THE CURB. CONE SECTION TO BE REPLACED WITH ECCENTRIC CONE SECTION IF NECESSARY.
 - USE 4" JOINTS WITH BEVELED ENDS IF RADIUS OF STORM SEWER IS LESS THAN 100'.
 - REFER TO MEP PLANS FOR STORM LINES WITHIN 5' AND UNDERNEATH BUILDING.
 - 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 COUNTY.
 - REFER TO TCEQ DESIGN GUIDELINES (CHAPTER 217 AND 290) FOR ALL UTILITY CROSSINGS.
 - REFER TO CONTECH PLANS FOR UNDERGROUND WATER QUALITY EQUALIZATION SYSTEM, UNDERGROUND DETENTION SYSTEM, STORM FILTER VAULT, AND FILTERRA CURB INLET DESIGN STANDARDS AND DETAILS.
 - 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 UTILITIES.
 - 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 DISCREPANCIES.
 - 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 WALL
 C) PVC - ASTM D 3034 SDR35
 - ALL EXISTING AND PROPOSED PIPES AND STRUCTURES ARE TO BE CLEANED OUT AT THE COMPLETION OF CONSTRUCTION TO REMOVE ALL SILT AND DEBRIS.
 - ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
 - ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RINGS & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
 - ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
 - IF PERCHED WATER IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT KIMLEY-HORN AND ECS SOUTHWEST FOR GUIDANCE.

BENCHMARKS

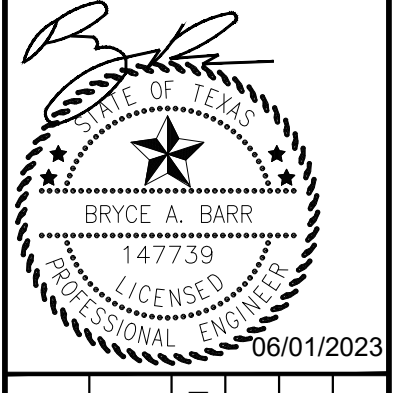
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CAUTION!
 EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



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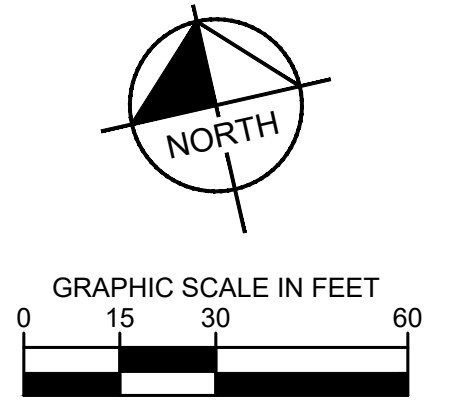
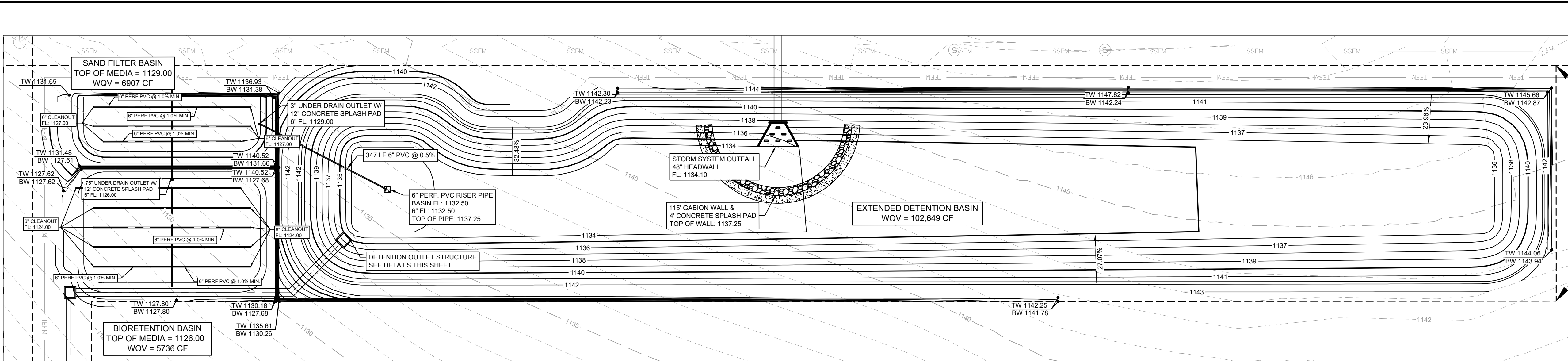
**STORM SEWER PLAN
 (3 OF 3)**

**SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS**

SHEET NUMBER
30 OF 44

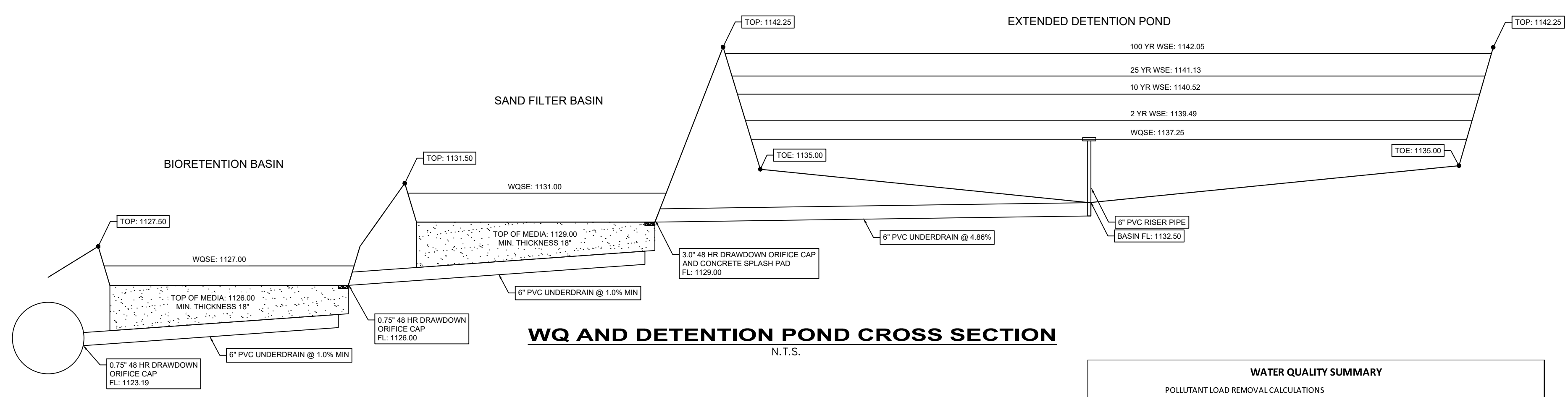
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LEGEND	
PROPERTY LINE	- - - - -
PROPOSED CONTOUR	— — — — —
EXISTING CONTOUR	- - - - -
PROPOSED RIDGE LINE	— R — R —
PROPOSED AREA DRAIN PIPE	— — — — —
TOP OF PAVEMENT ELEVATION	x— 540
ELEVATION AT FLOW LINE	x— 540 FL
ELEVATION AT TOP OF WALL	x— 540 TW
ELEVATION AT BOTTOM OF WALL	x— 540 BW
PROPOSED CONCRETE	▒
PROPOSED ARMORMAX	▒

- NOTES**
- CONTACT POSTINSPECTION@TRAVISCOUNTYTX.GOV TO SCHEDULE THE FOLLOWING MILESTONE INSPECTION(S) FOR THE WATER QUALITY STRUCTURES WITH AT LEAST A 48-HOUR NOTICE, IF APPLICABLE.
 - PRE-POUR OF ALL CONCRETE WITHIN THE FOOTPRINT OF THE WQ CONTROL OR POND.
 - PLACEMENT OF ALL ROCK-FILLED GABIONS/MATTRESSES AND LEVEL SPREADERS.
 - INSPECTION OF SANDBIO-FILTRATION MEDIA AND/OR ROCK PRIOR TO INSTALLING.
 - UNDERDRAIN PIPING PRIOR TO COVERING WITH SANDBIO-FILTRATION MEDIA OR ROCK IN INFILTRATION TRENCH - IF COVERED, REMOVAL OF MATERIAL WILL BE REQUIRED.
 - INSPECTION OF DESIGNED PLANTINGS PRIOR TO INSTALLING IN RAIN GARDEN/BIO-FILTRATION BASINS.
 - SUBSOIL INFILTRATION RATE TESTING FOR INFILTRATION TRENCHES/BASINS PRIOR TO COVERING WITH REQUIRED TOPSOIL.
 - PREPARATION OF SUBSOIL FOR ENGINEERED VEGETATIVE FILTER STRIPS PRIOR TO COVERING WITH REQUIRED TOPSOIL.
 - COMPLETION OF CONSTRUCTION OF WATER QUALITY STRUCTURE(S).



Drawdown - Extended Detention Underdrain (Variables)

Orifice flow Formula: $Q = C_d A (2gH_o)^{0.5}$ 0.5392 cfs at WQE
 H_o = head over orifice (to mid orifice) 5.3300 ft
 C_d = orifice coefficient (use 0.6) 0.6000
 Diameter of Pipe (D) 3.0000 in
 Area of orifice, sq ft 0.0491 ft²
 g = gravitational constant, 32.2 ft/sec² 32.2 ft/sec²

H	H/2	Q	Total Time
5.3300	2.6650	0.5392	52.8783351

Drawdown - Sandfilter Underdrain (Variables)

Orifice flow Formula: $Q = C_d A (2gH_o)^{0.5}$ 0.0383 cfs at WQE
 H_o = head over orifice (to mid orifice) 6.7700 ft
 C_d = orifice coefficient (use 0.6) 0.6000
 Diameter of Pipe (D) 0.7500 in
 Area of orifice, sq ft 0.0031 ft²
 g = gravitational constant, 32.2 ft/sec² 32.2 ft/sec²

H	H/2	Q	Total Time
6.7700	3.3850	0.0383	50.0326127

Drawdown - Biofiltration Underdrain (Variables)

Orifice flow Formula: $Q = C_d A (2gH_o)^{0.5}$ 0.0287 cfs at WQE
 H_o = head over orifice (to mid orifice) 3.8100 ft
 C_d = orifice coefficient (use 0.6) 0.6000
 Diameter of Pipe (D) 0.7500 in
 Area of orifice, sq ft 0.0031 ft²
 g = gravitational constant, 32.2 ft/sec² 32.2 ft/sec²

H	H/2	Q	Total Time
3.8100	1.9050	0.0287	55.4866444

WATER QUALITY SUMMARY

POLLUTANT LOAD REMOVAL CALCULATIONS

TOTAL AREA TO BMP	16.64 AC
EXISTING IMPERVIOUS AREA	0.07 AC
EXISTING IMPERVIOUS PERCENTAGE	0.04 %
EXISTING PAVED AREA	0 AC
EXISTING PAVED AREA IMPERVIOUS PERCENTAGE	0 %
PROPOSED IMPERVIOUS AREA	15.33 AC
PROPOSED IMPERVIOUS PERCENTAGE	92.13 %
PROPOSED PAVED AREA	8.82 AC
PROPOSED PAVED AREA IMPERVIOUS PERCENTAGE	57.53 %
1 YR RUNOFF VOLUME	1.61 IN.
WQ VOLUME	97221.861 CF
BMPs WILL BE EXTENDED DETENTION THEN SAND FILTER THEN BIORETENTION	
EXT. DETENTION VOLUME (WQ VOLUME*1.05)	101977.95 CF
SAND FILTER VOLUME (WQ VOLUME*0.044)	4273.36 CF
BIORETENTION VOLUME (WQ VOLUME*0.044)	4273.36 CF

POLLUTANT LOADING

POLLUTANT	PRE-DEVELOPED LOADING (LB/YR)	DEVELOPED LOADING (LB/YR)
TSS	248.821	10218.48
TP	0.18	24.36
O&G	0.00	95.38

BMP POLLUTANT LOAD REMOVAL EFFICIENCIES

BMP	TSS	TP	O&G
EXT. DETENTION	75.0	45.0	75.0
SAND FILTER	89.0	55.0	89.0
BIORETENTION	89.0	72.0	89.0
TOTAL EFFICIENCY	99.2	90.8	99.2

TOTAL BMP POLLUTANT LOAD REMOVAL

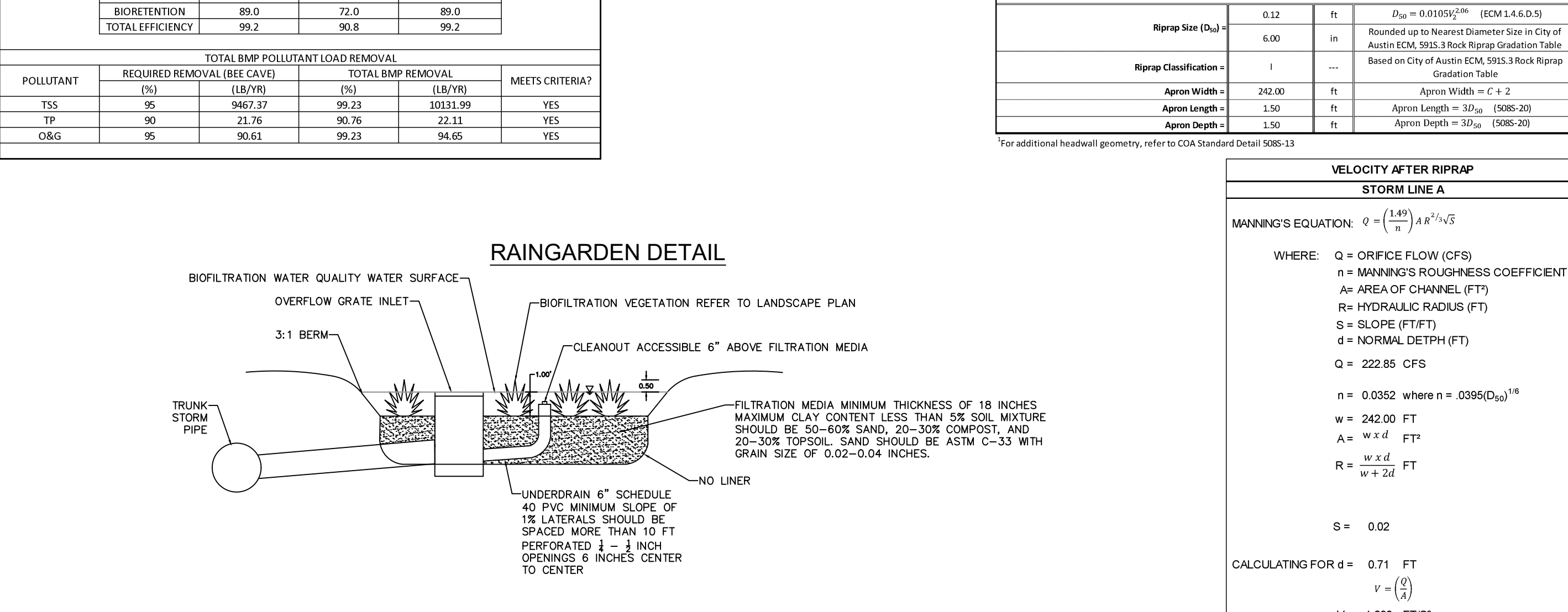
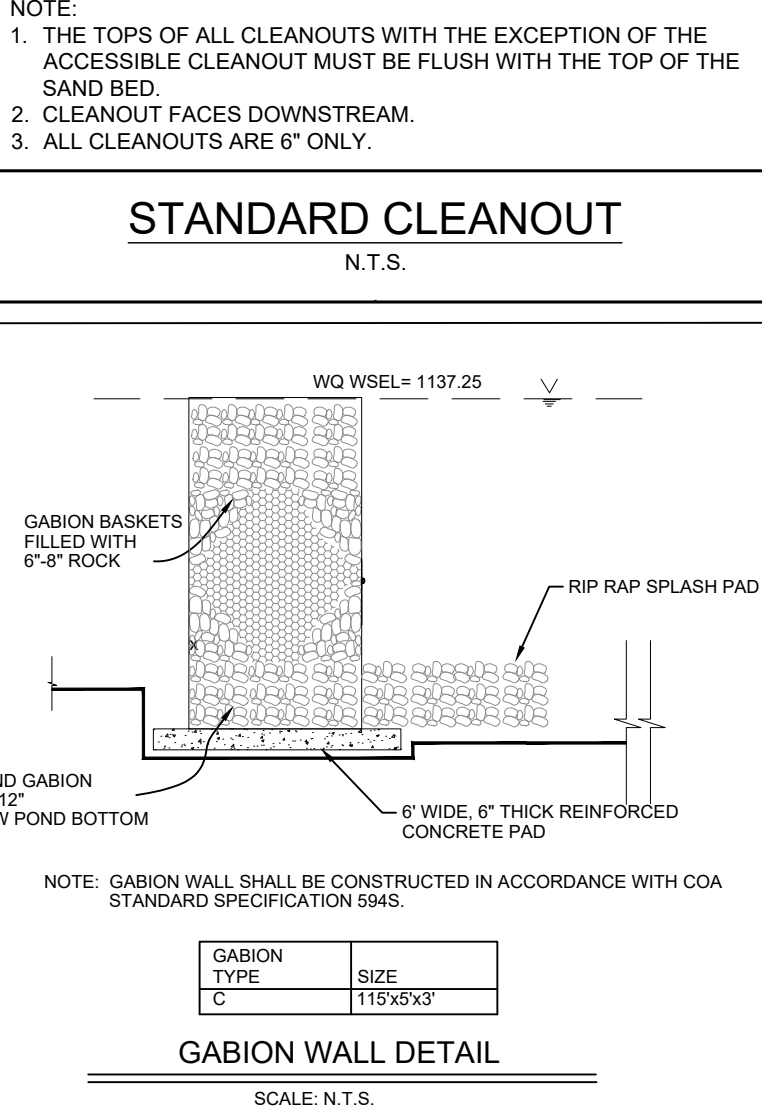
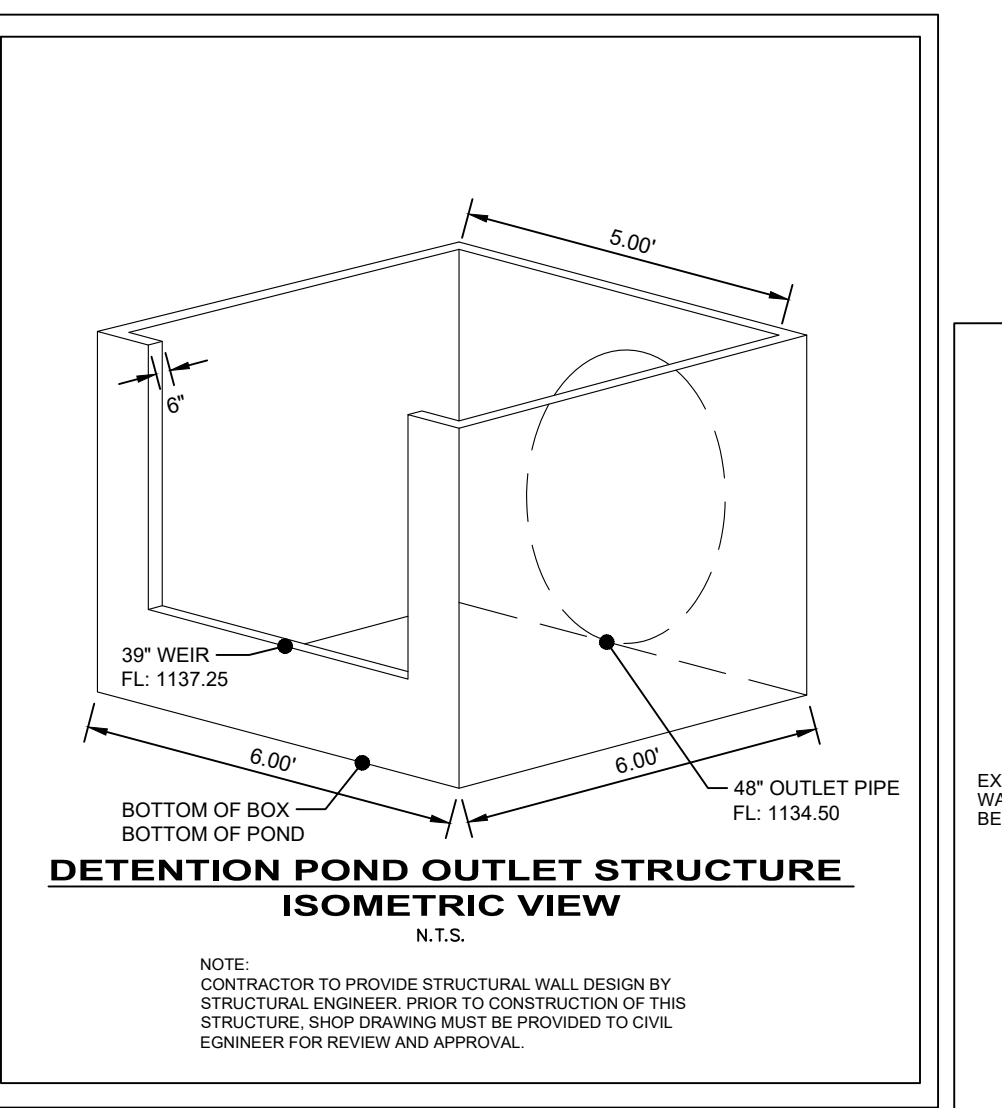
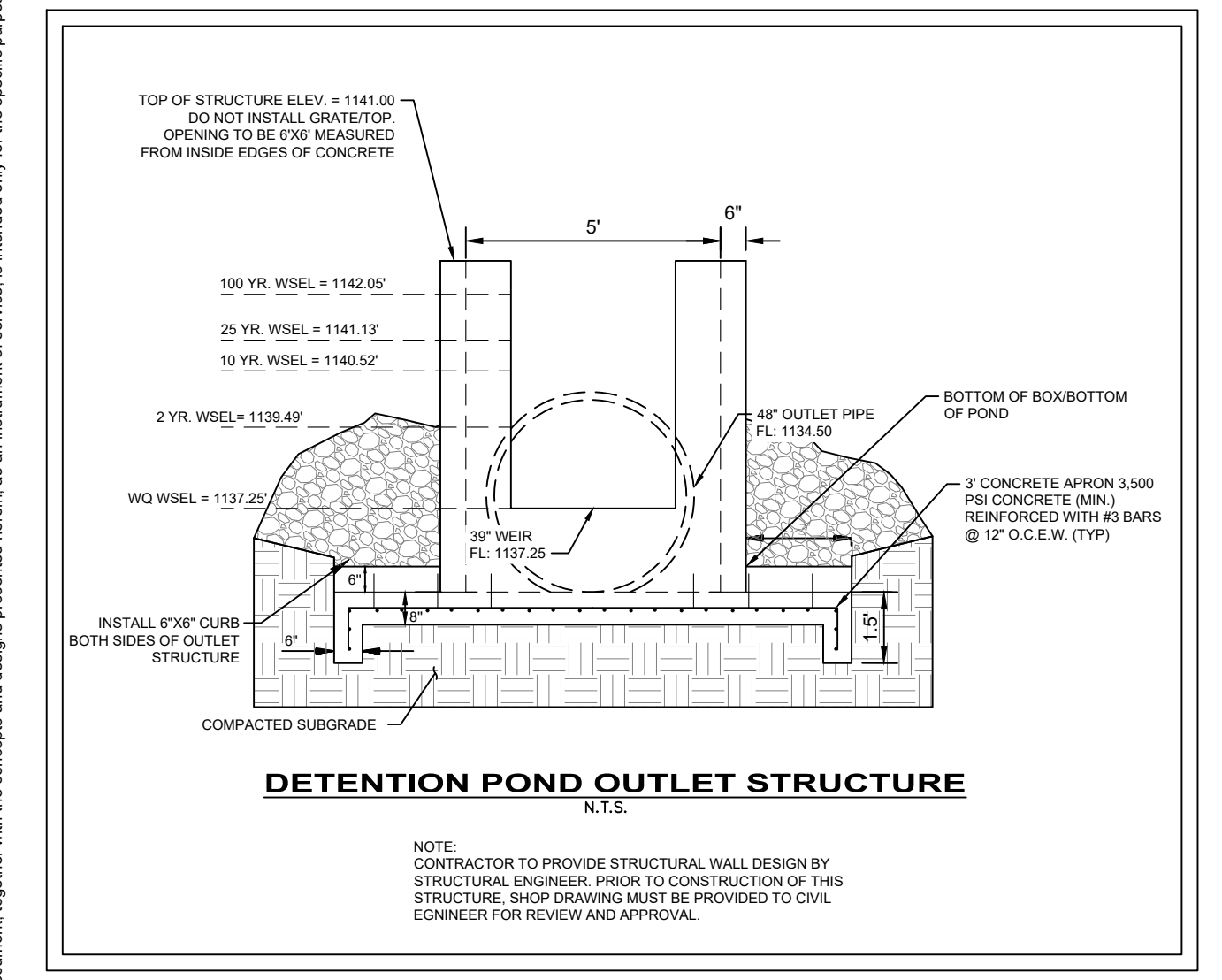
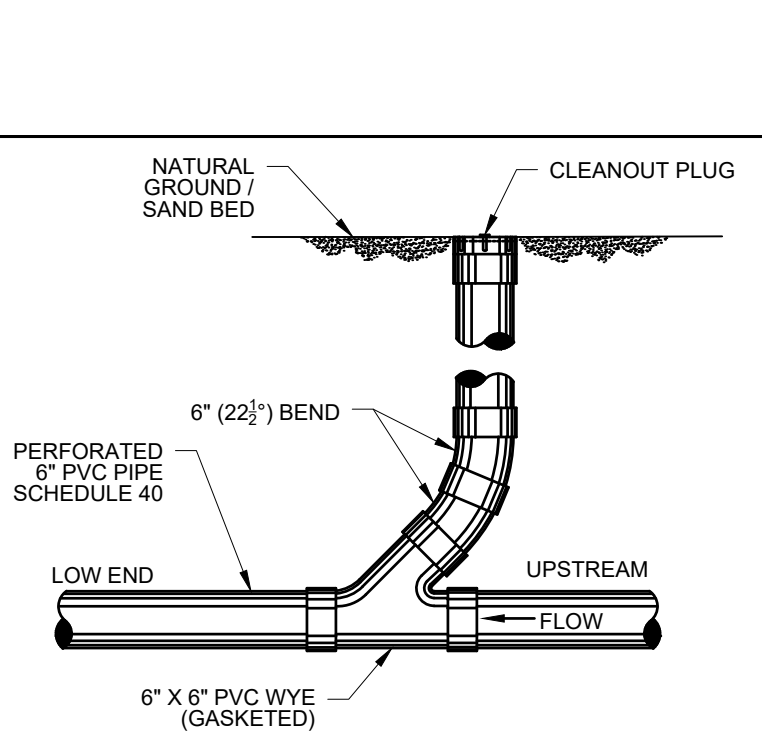
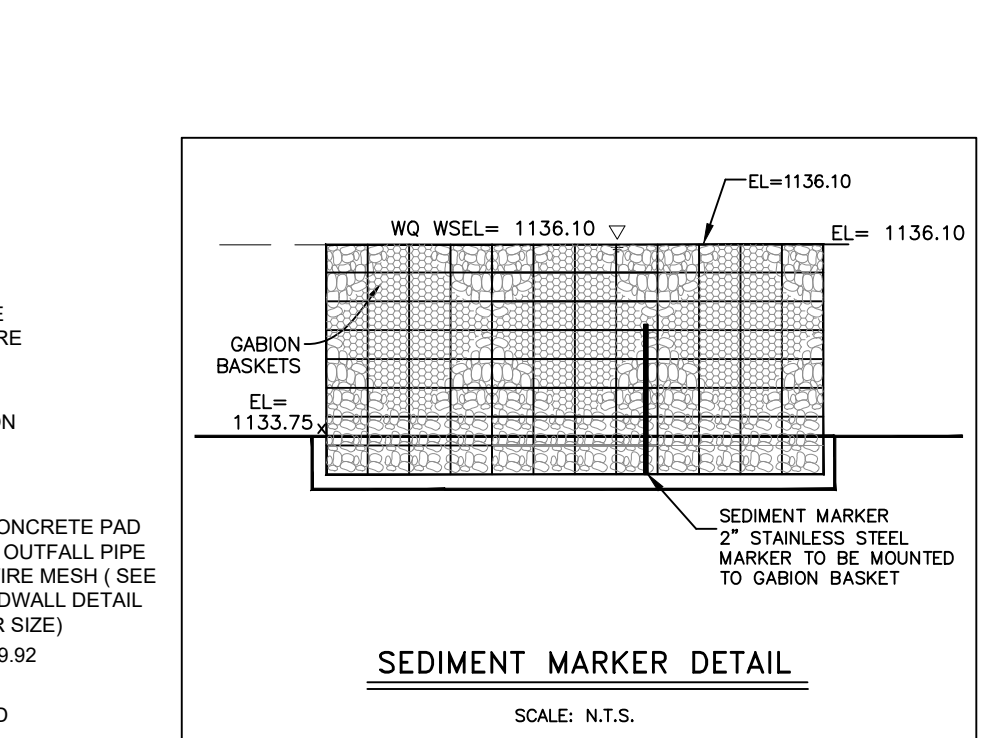
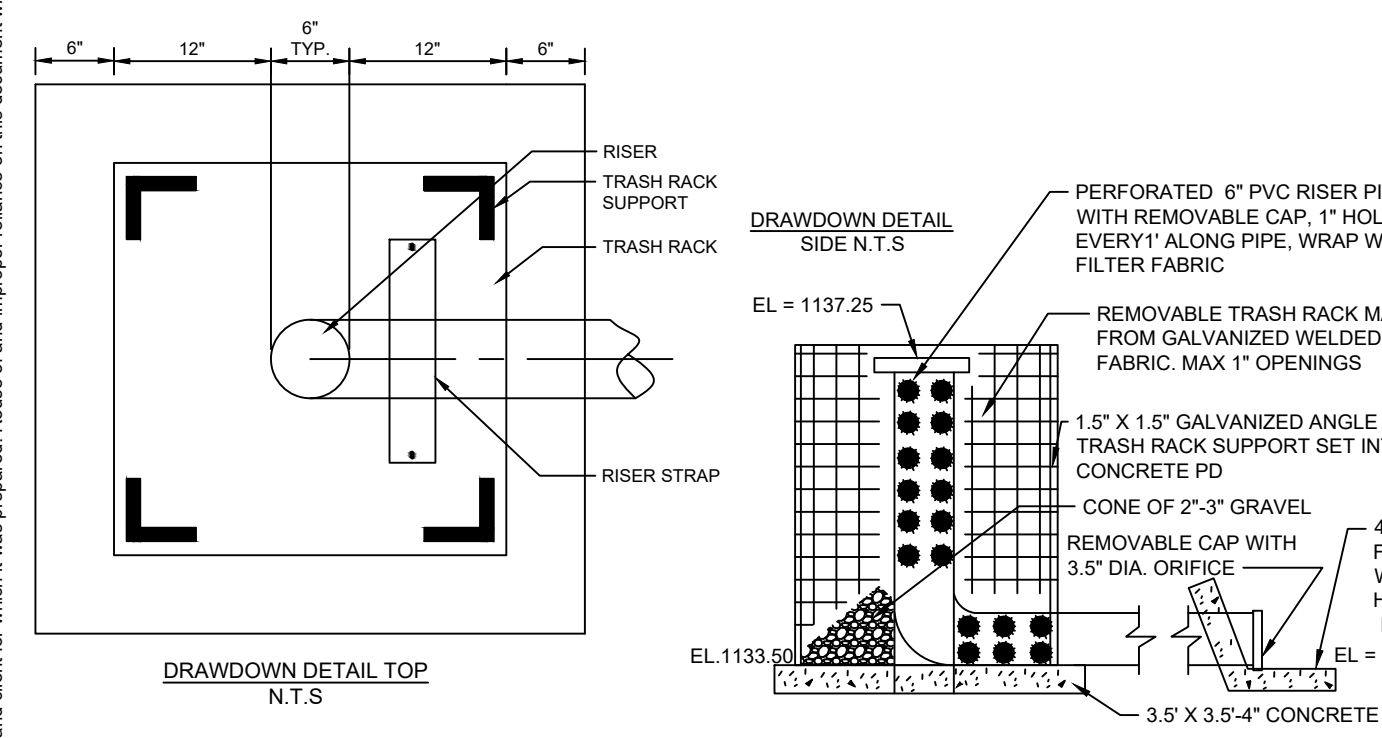
POLLUTANT	REQUIRED REMOVAL (BEE CAVE) (%)	REQUIRED REMOVAL (LB/YR)	TOTAL BMP REMOVAL (%)	TOTAL BMP REMOVAL (LB/YR)	MEETS CRITERIA?
TSS	95	242.37	99.23	10211.99	YES
TP	90	21.76	90.76	22.11	YES
O&G	95	90.61	99.23	94.65	YES

STORM POND INFLOW DESIGN

KBC Sweetwater 23-42677

INPUT VALUES	Storm Line	Unit	Source
Discharge (Q)	222.85	cfs	StormCAD Model
Velocity at Outlet (V)	16.00	ft/s	StormCAD Model
Outlet Pipe Diameter (D)	48.0	ft	Required size for Conveyance
HEADWALL			
Headwall Length (L)	144.00	ft	COA Detail 5085-13, Based on Outlet Diameter
Headwall Width (W)	240.00	ft	COA Detail 5085-13, Based on Outlet Diameter
Depth of Flow at End of Headwall (d)	0.28	ft	Based on Manning's Equation, using Goal Seek in Excel to solve for depth
Velocity at End of Headwall (V)	3.26	ft/sec	$V = \frac{Q}{A}$ where $A = Cd$
RIPRAP			
Riprap Size (D ₅₀)	0.12	ft	$D_{50} = 0.0105Q^{0.26}$ (ECM 1.4.6.D.5)
	6.00	in	Rounded up to Nearest Diameter Size in City of Austin SCM 5915.3 Rock Riprap Gradation Table
Riprap Classification	I	---	Based on City of Austin SCM 5915.3 Rock Riprap Gradation Table
Riprap Length	242.00	ft	Apron Width = C + 2
Apron Length	1.50	ft	Apron Length = 3D ₅₀ (5085-20)
Apron Depth	1.50	ft	Apron Depth = 3D ₅₀ (5085-20)

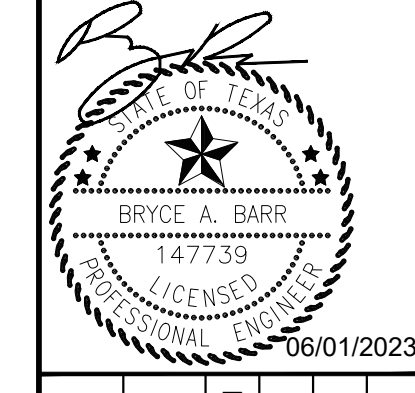
For additional headwall geometry, refer to COA Standard Detail 5085-13



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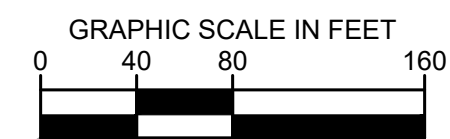
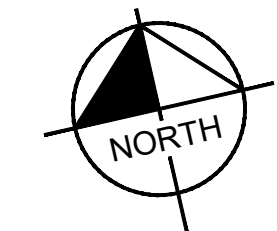
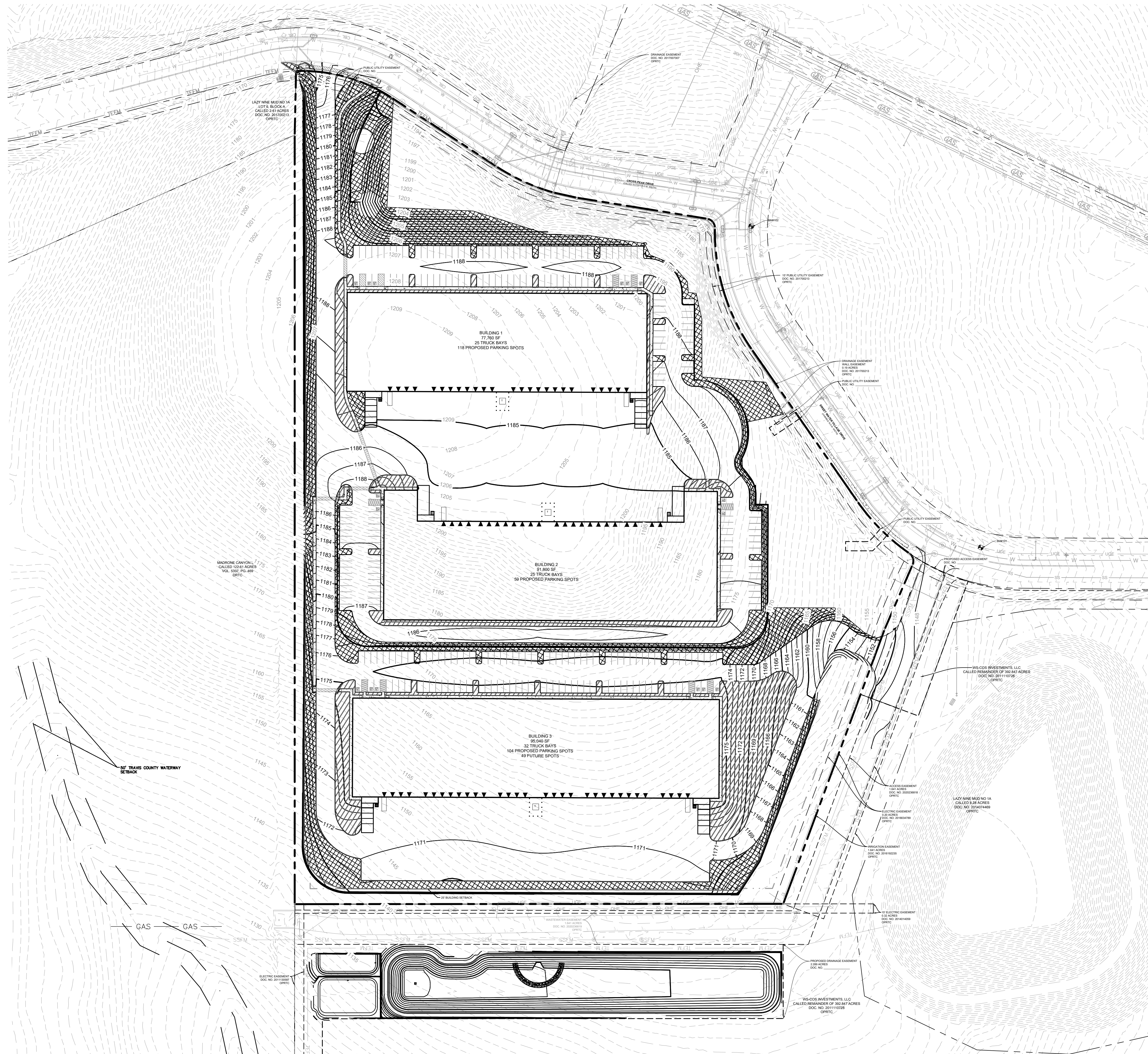
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KHA PROJECT 067786844
 DATE 02/23/2023
 SCALE AS SHOWN
 DESIGNED BY RSB
 DRAWN BY CRS
 CHECKED BY BAB

WQ AND DETENTION POND PLAN

Plotted By: blallop, Ryan Date: August 15, 2023 09:14:28am File Path: K:\SAU_Civil\067786844 - KBC Sweetwater4 - Design\Final Engineering\Plans\Sheet\STABILIZATION AND RESTORATION PLAN.dwg
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LEGEND

	PROPERTY LINE
	PROPOSED CLASS 1 TYPE A MATTING BIONET SC150BN. SEE SHEET 39.
	REVEGETATION AND SEEDING PER LANDSCAPE PLANS. SEE NOTE 12.
	PROPOSED CLASS 2 TYPE FLEXIBLE CHANNEL LINER CONTECH TRM C-35. SEE SHEET 39.

STABILIZATION AND RESTORATION NOTES

- INITIATE PERMANENT STABILIZATION IMMEDIATELY ONCE WORK HAS CEASED AND FINAL GRADE HAS BEEN ACHIEVED IN ANY GIVEN AREA.
- A MINIMUM OF 4" TOPSOIL SHALL BE USED WITH THE RESTORATION PROCESS.
- THE FINAL STABILIZATION/REVEGETATION EFFORTS SHALL BE IN ACCORDANCE WITH THE APPROVED RESTORATION PLAN DETAILS AND SPECIFICATIONS.
- ALL 3:1 SLOPES OR STEEPER REQUIRE SOIL RETENTION BLANKET (SRB).
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE WATERING/IRRIGATION TO ACHIEVE THE PERMANENT STABILIZATION REQUIREMENTS IN ALL DISTURBED/REVEGETATED AREAS BEFORE FINAL ACCEPTANCE FOR THIS PROJECT CAN BE OBTAINED.
- ALL COMMON AREAS INCLUDING PWQC STRUCTURES MUST BE PERMANENTLY STABILIZED PER JURISDICTIONAL TECHNICAL SPECIFICATIONS BEFORE A CONDITIONAL ACCEPTANCE CAN BE ISSUED.
- ALL DISTURBED/BARE AREAS WILL REQUIRE PERMANENT STABILIZATION BEFORE FINAL ACCEPTANCE CAN BE ACHIEVED. AVOID DISTURBING AREAS OF THE PROJECT THAT ARE NOT NECESSARY FOR CONSTRUCTION.
- ANY DISTURBED AREA(S) NOT INDICATED TO BE RESTORED ON THE RESTORATION PLAN REQUIRES THE SAME EFFORTS AS THOSE INDICATED.
- CONTRACTOR RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS OUTSIDE LOC AT THEIR OWN EXPENSE.
- ALL DISTURBED AREAS MUST MEET THE REQUIREMENT FOR PERMANENT STABILIZATION.
- THE NOTICE OF TERMINATION (NOT) FOR THIS PROJECT SHALL NOT BE SUBMITTED UNTIL THE TRAVIS COUNTY ENVIRONMENTAL INSPECTOR APPROVES CLEARANCE.
- REFER TO LANDSCAPE PLANS FOR ALL SEED AND SOIL SPECIFICATIONS AND SEASONAL PLANTING NOTES FOR FINAL STABILIZATION REQUIREMENTS. ALL FINAL STABILIZATION AND RESTORATION SHALL BE IN ACCORDANCE WITH THE HWLO TECHNICAL MANUAL.
- ALL SOIL RETENTION BLANKET TO BE CLASS 1 TYPE A PER DETAIL ON SHEET 39.
- ALL FLEXIBLE CHANNEL LINERS TO BE CLASS 2 TYPE G PER DETAIL ON SHEET 39.

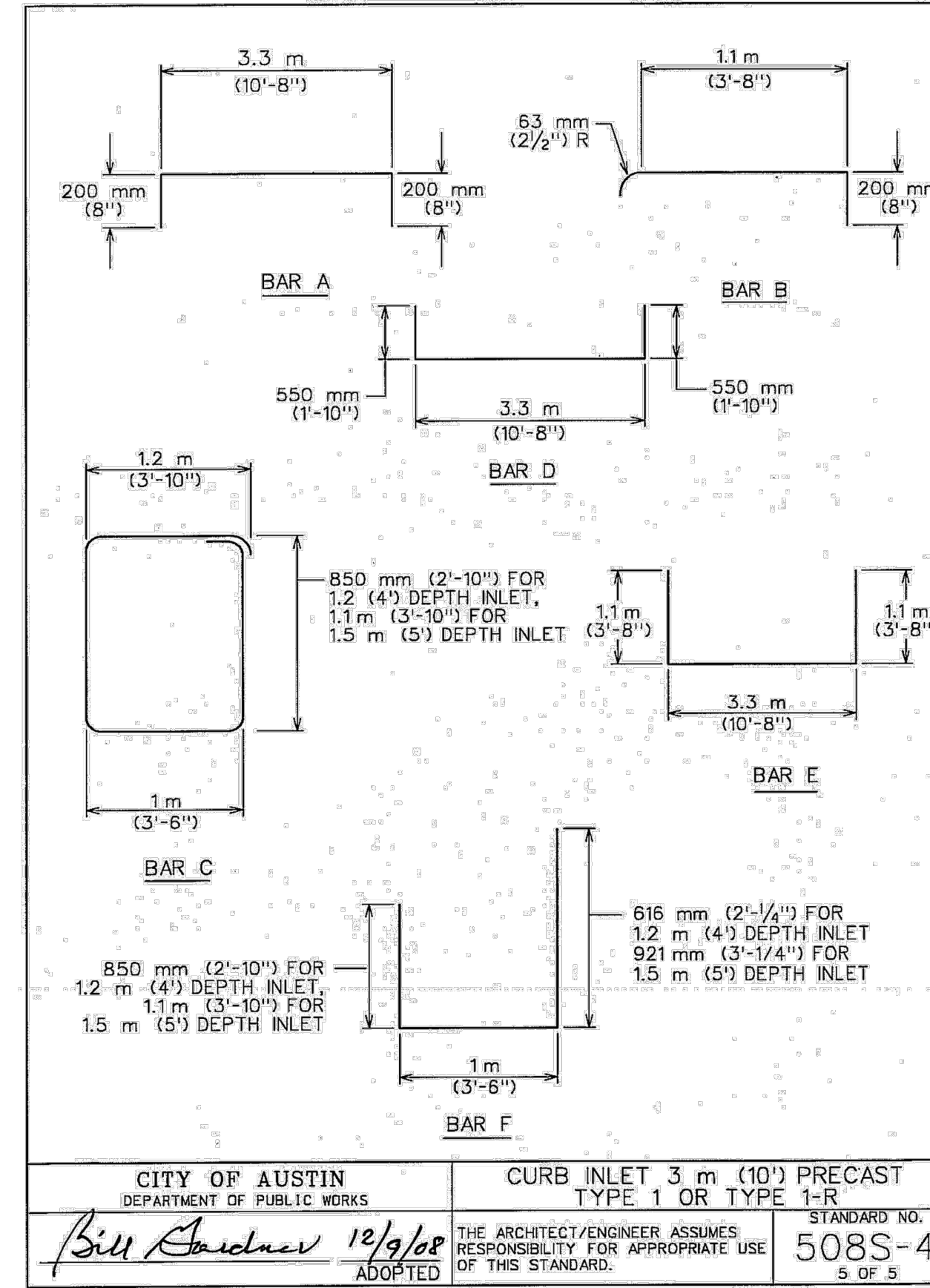
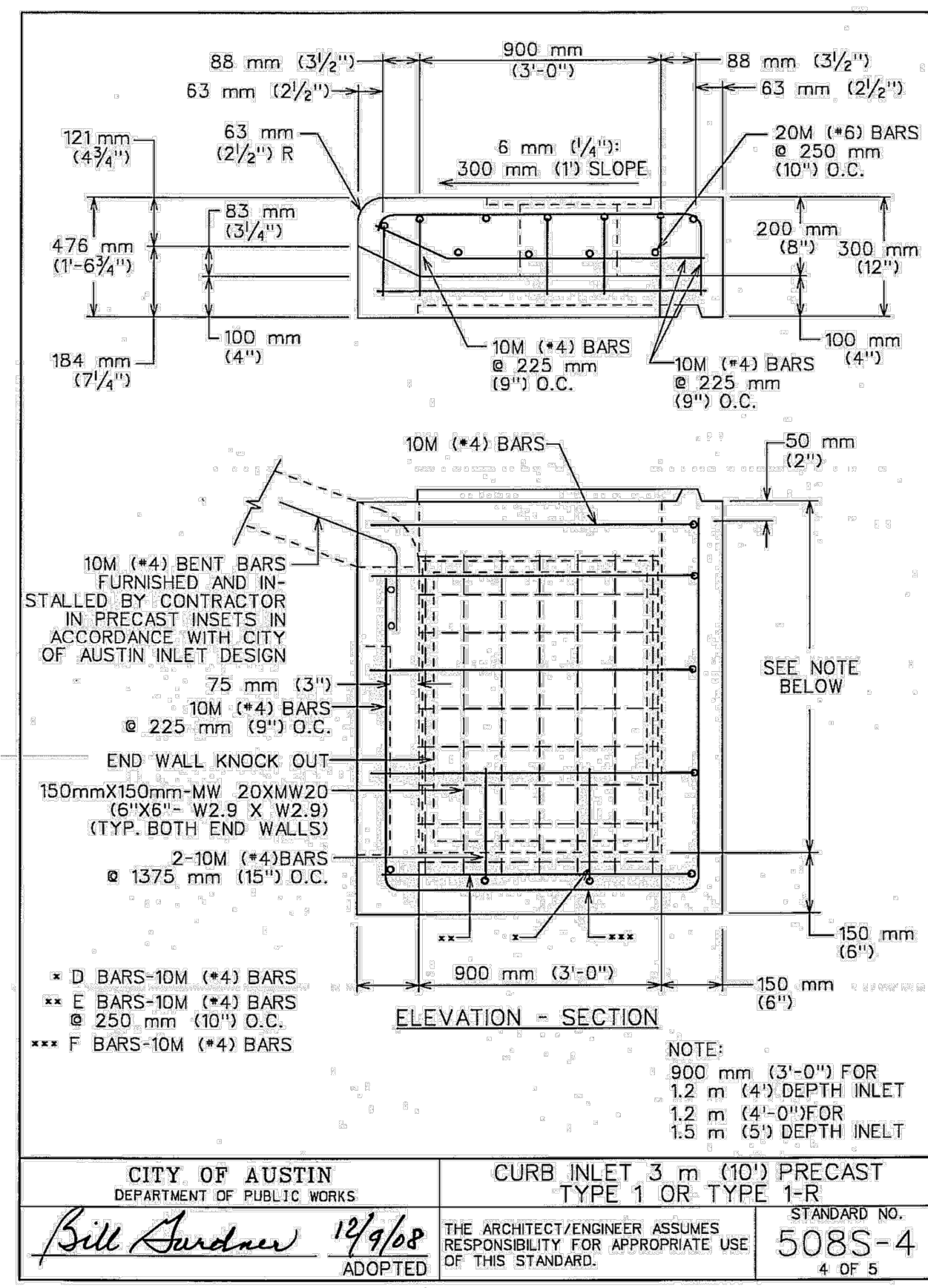
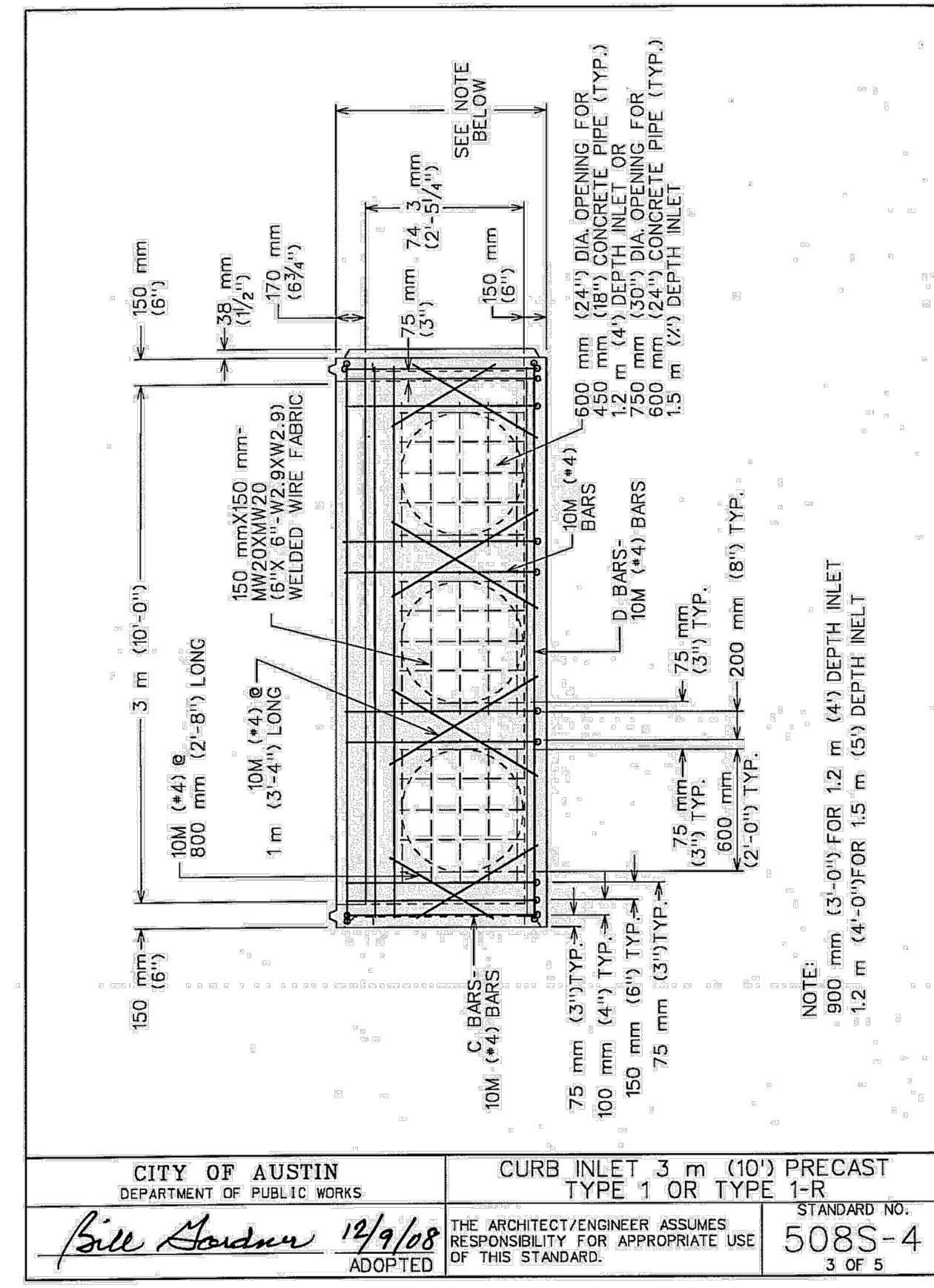
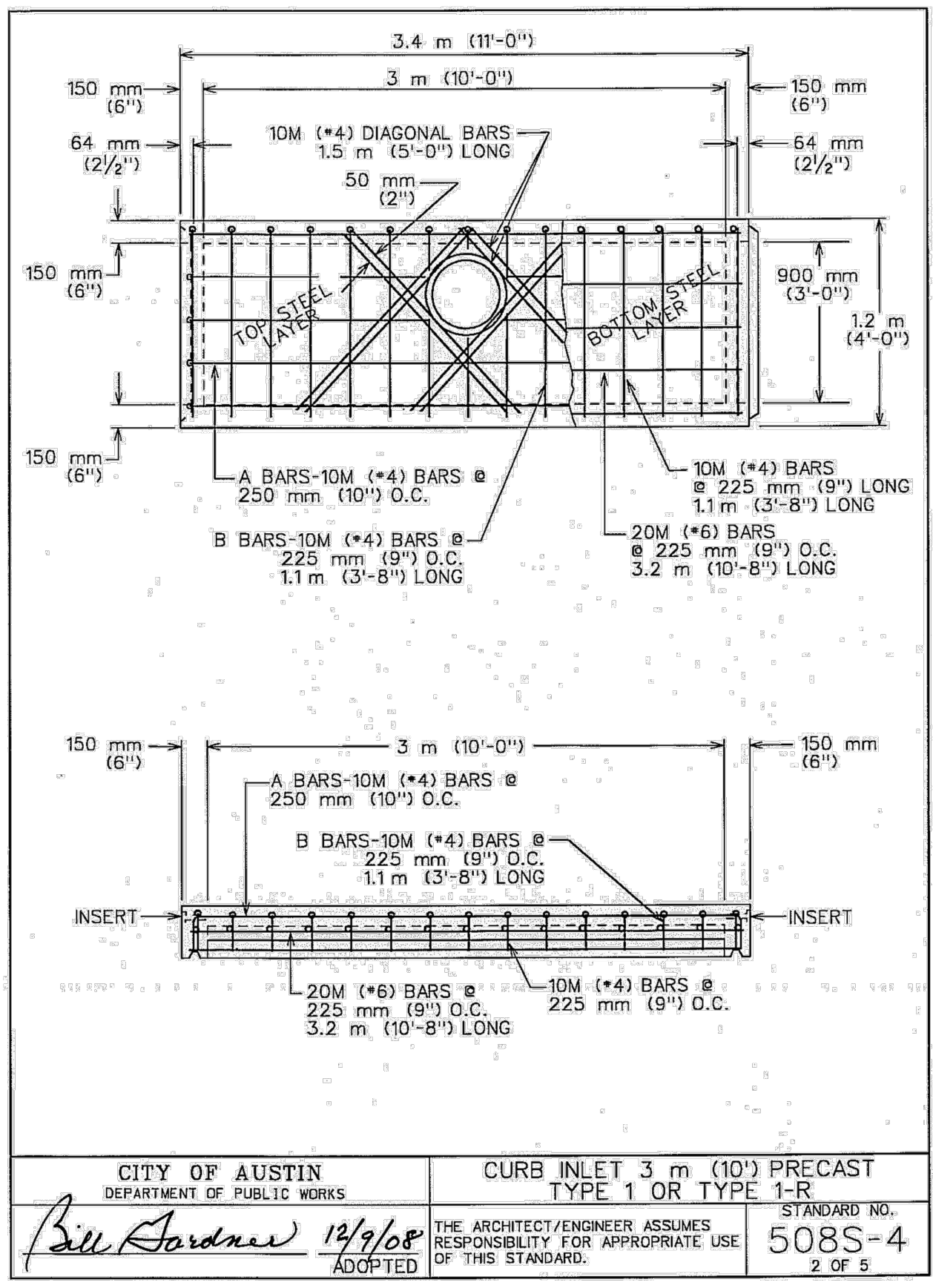
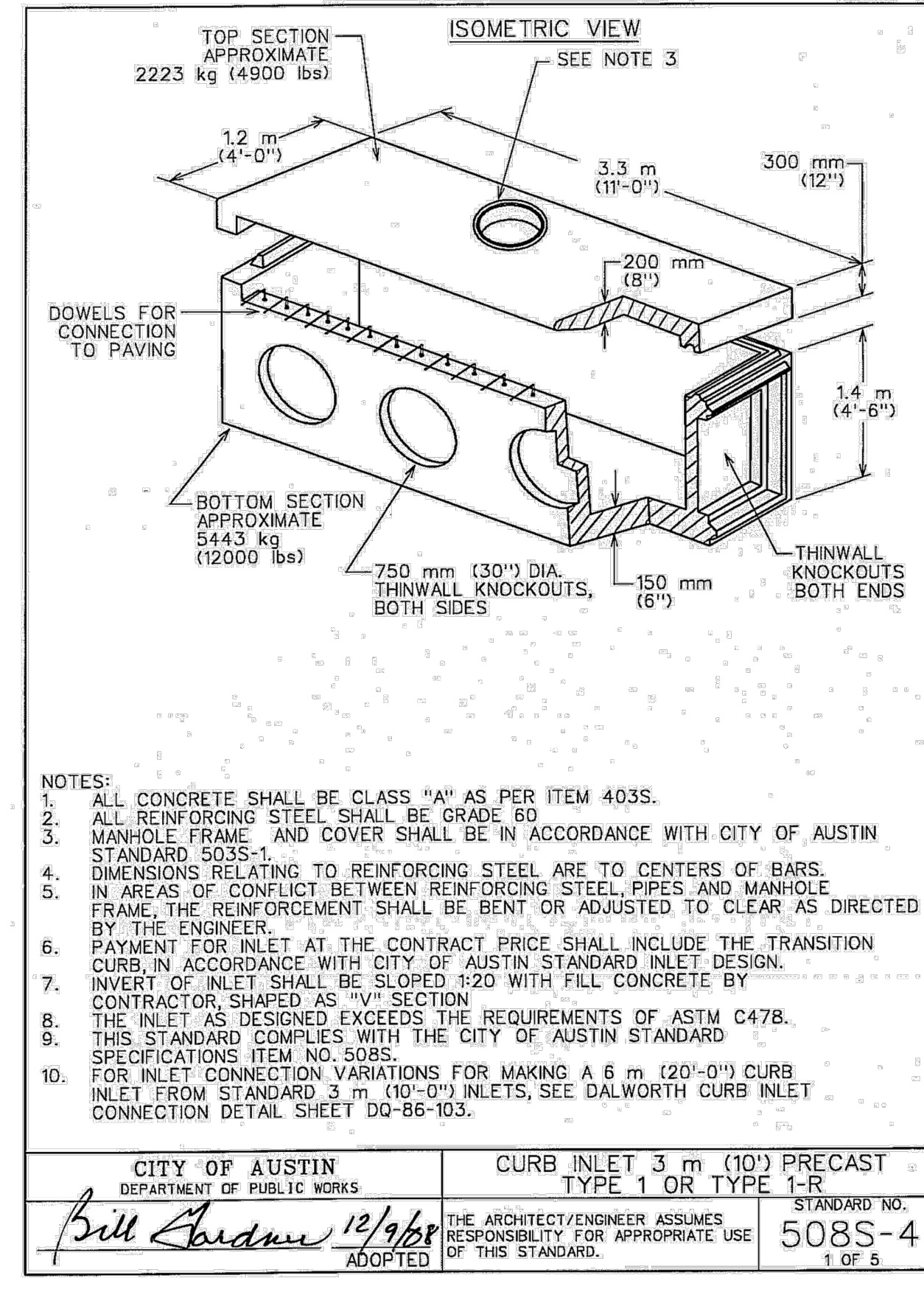
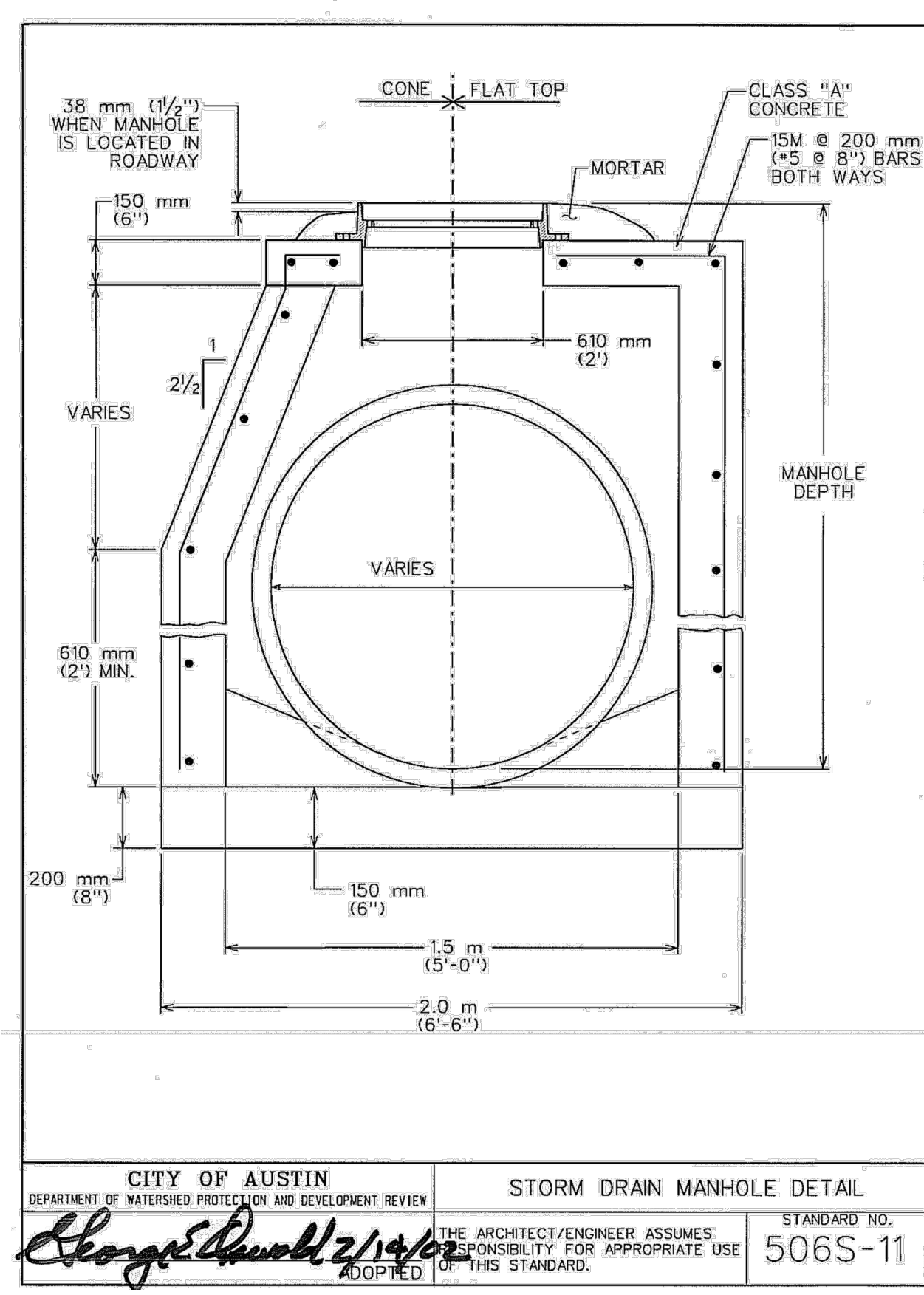
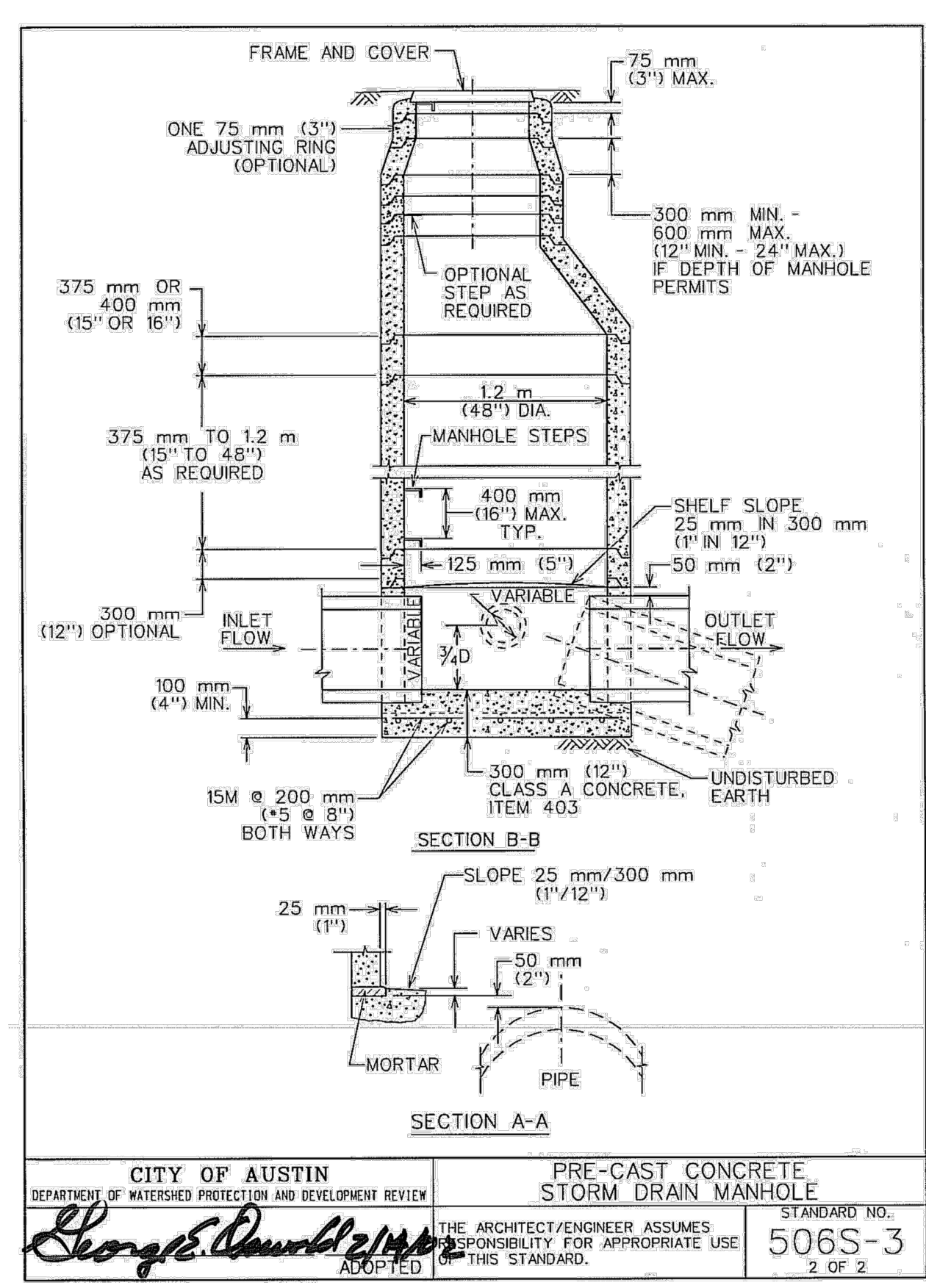
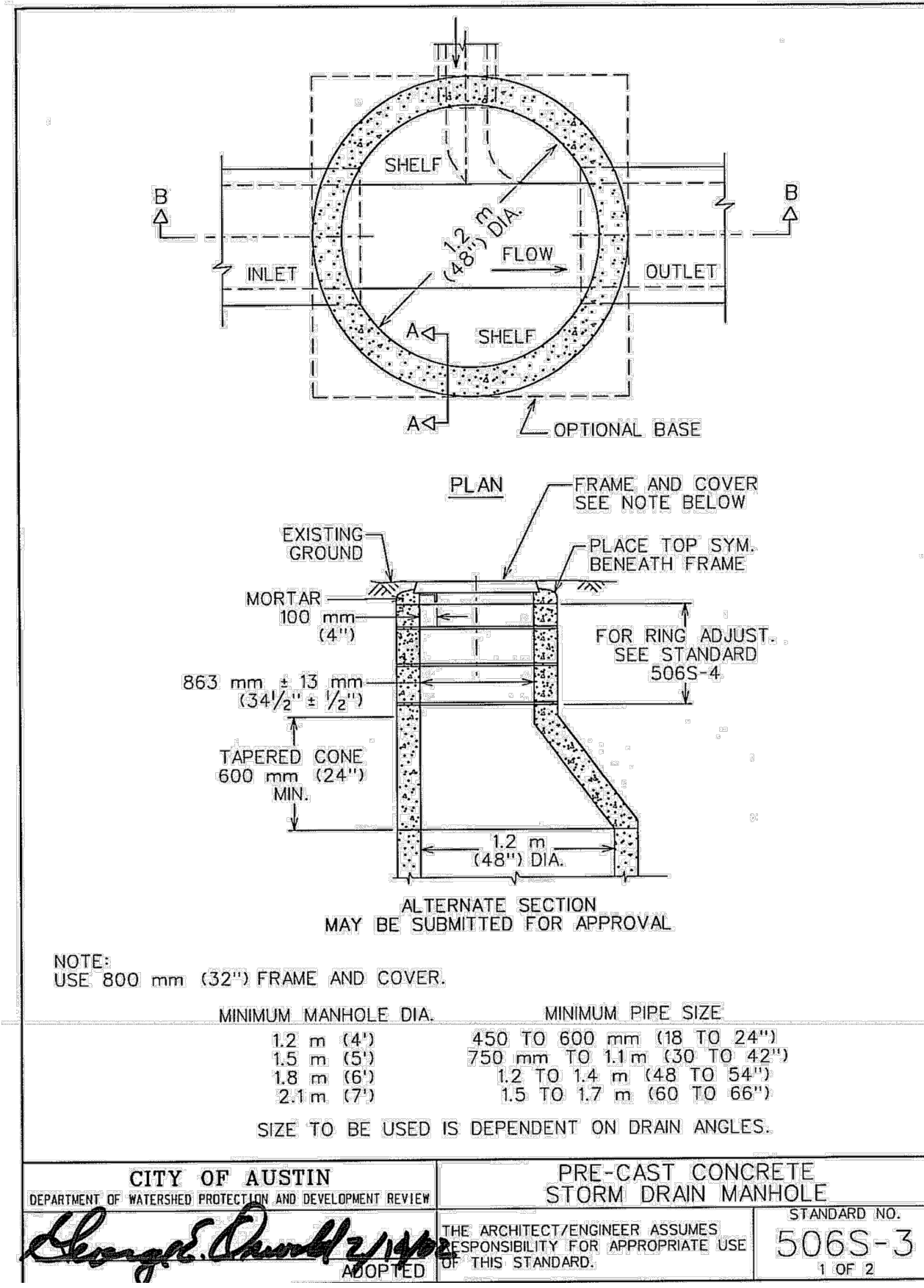
BENCHMARKS

BM #101	PK NAIL WITH WASHER SET AT THE NORTHWEST CORNER OF CURB INLET ON NORTH SIDE OF SWEETWATER VILLAGE DRIVE. 4590' 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. 459' SOUTH OF CROSS PEAK DRIVE CENTERLINE.
ELEV=1157.662' (NAVD '88)	



Know what's below.
Call before you dig.

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<p>STABILIZATION AND RESTORATION PLAN</p>	<p>SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS</p>
<p>KHA PROJECT: 067786844 DATE: 02/23/2023 SCALE: AS SHOWN DESIGNED BY: RSB DRAWN BY: CRS CHECKED BY: BAB</p>	<p>SHEET NUMBER 38 OF 44</p>



Plotted By: blakop, Ryan Date: August 15, 2023 09:14:43am File Path: K:\SAU_Civil\06776844 - KBC Sweetwater4 - Design\Final Engineering\PlanSheet\CITY OF AUSTIN CONSTRUCTION DETAILS.dwg
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TEXAS REGISTERED ENGINEERING FIRM F-928

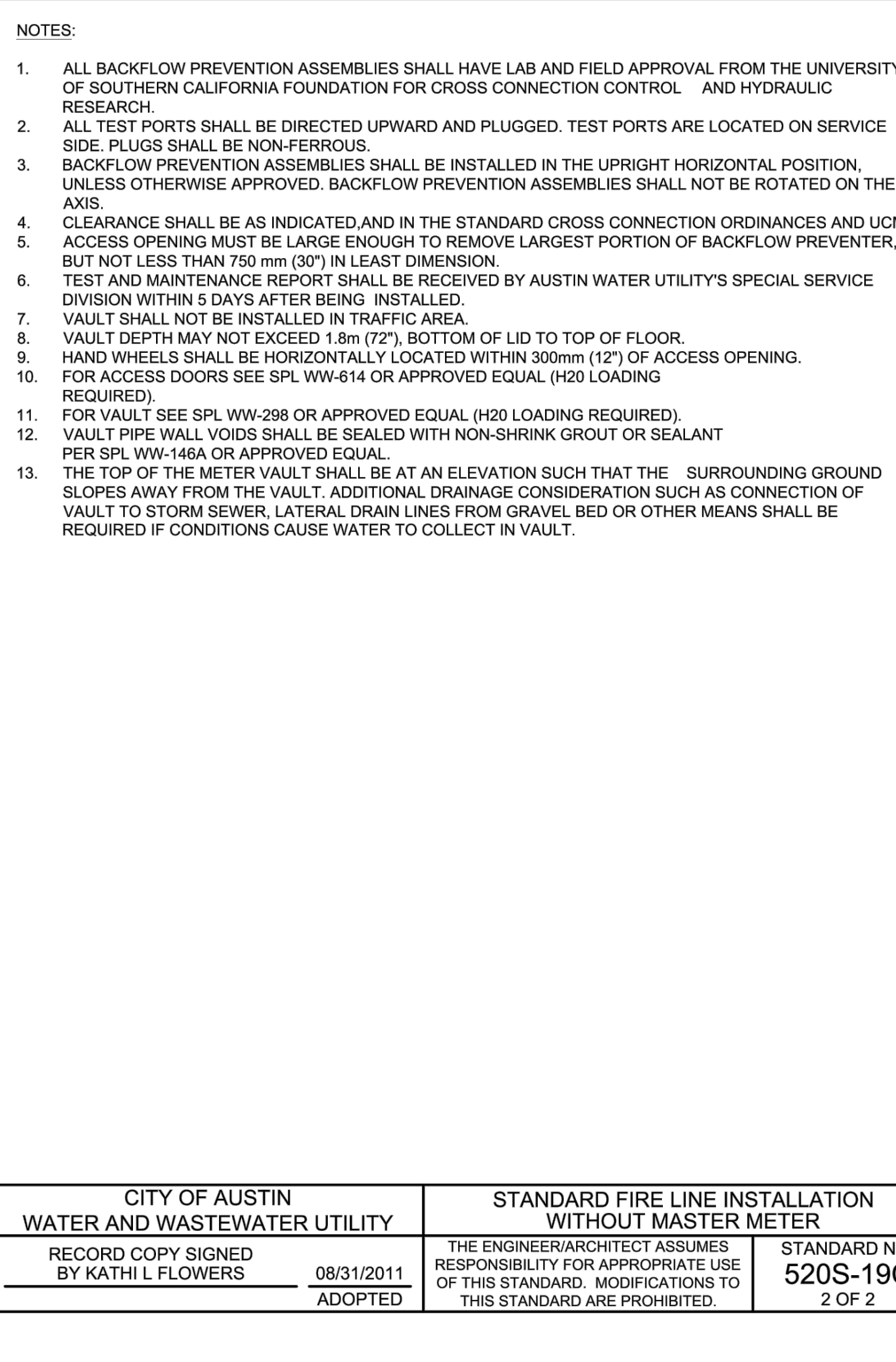
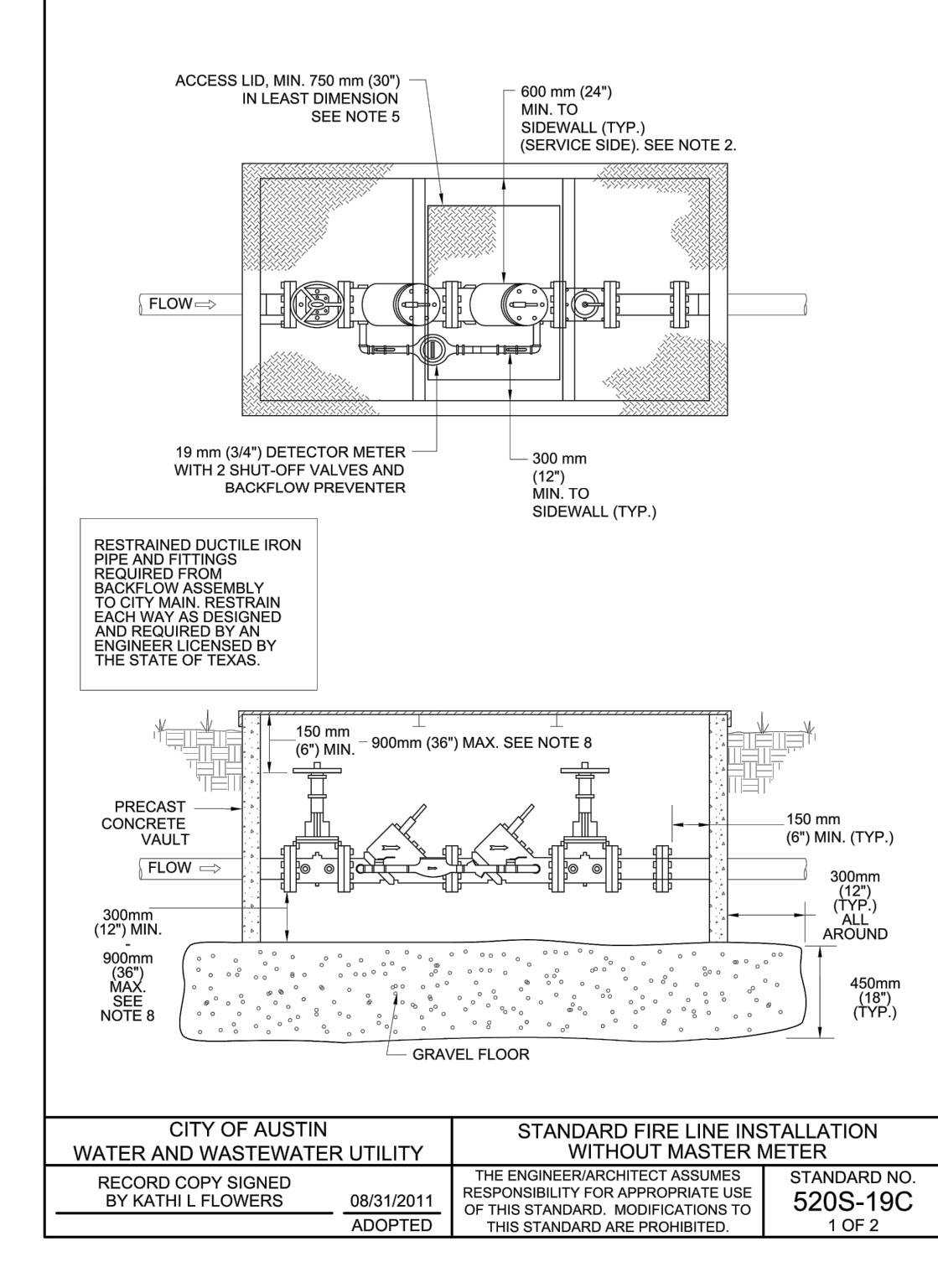
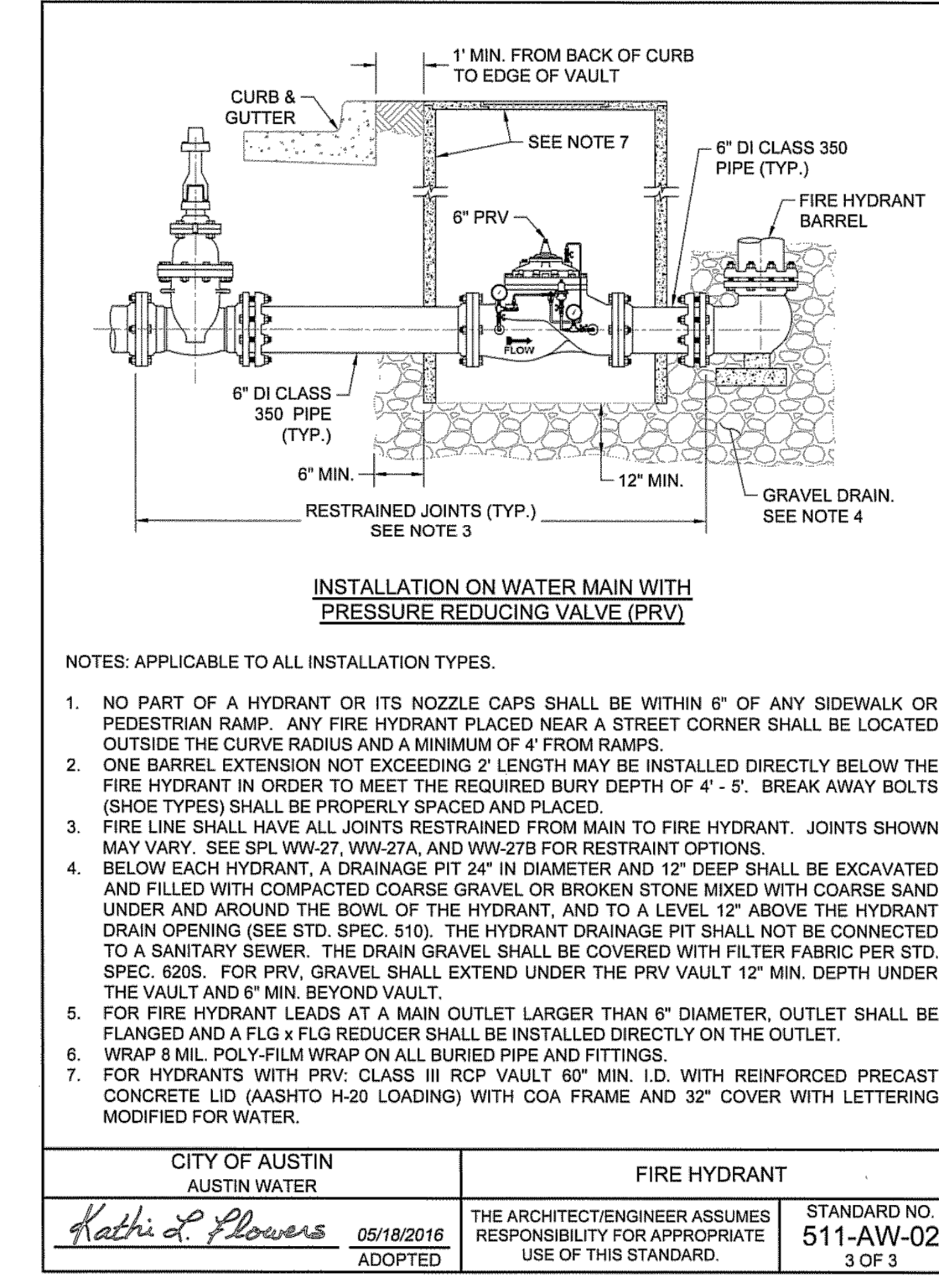
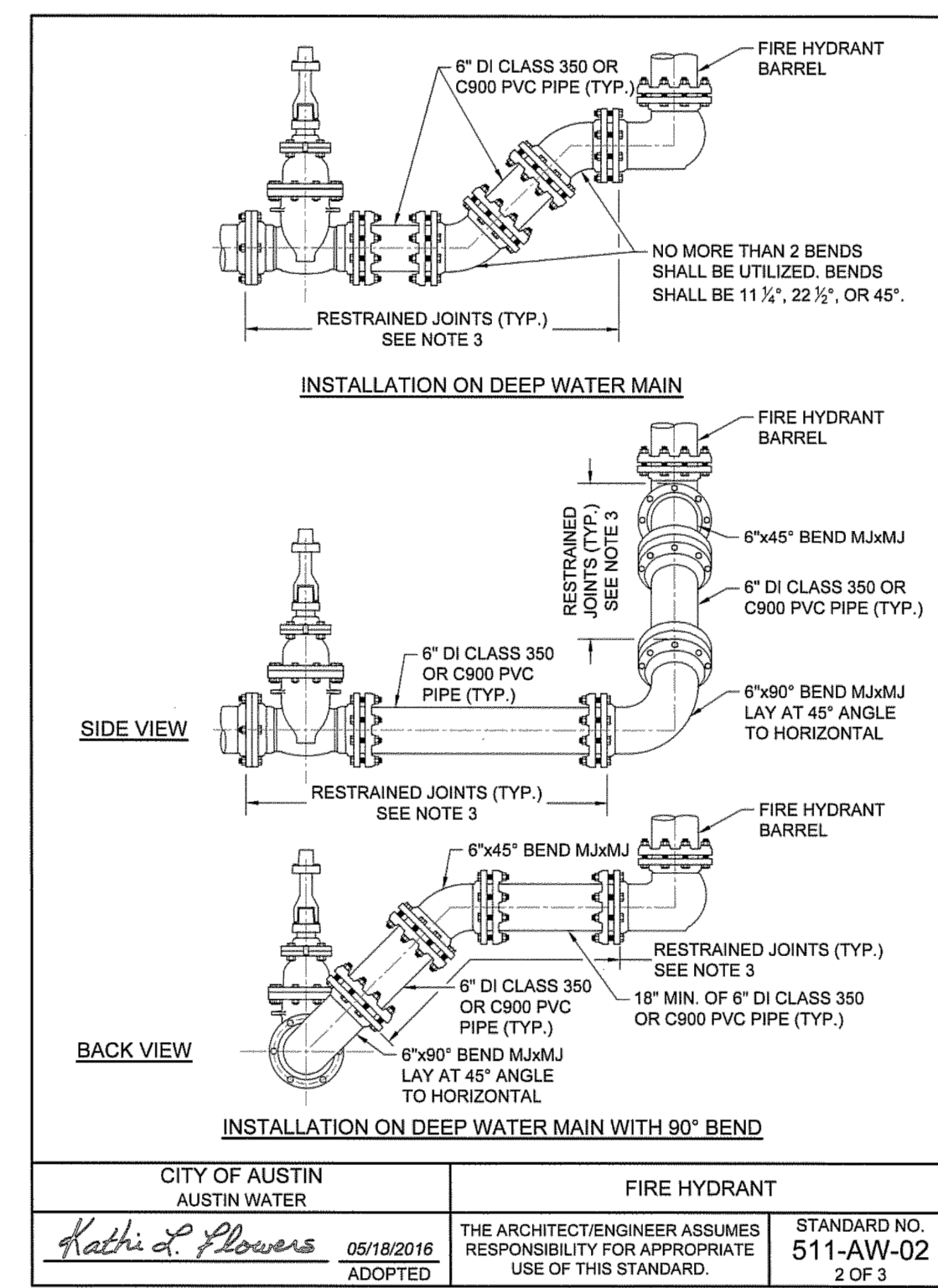
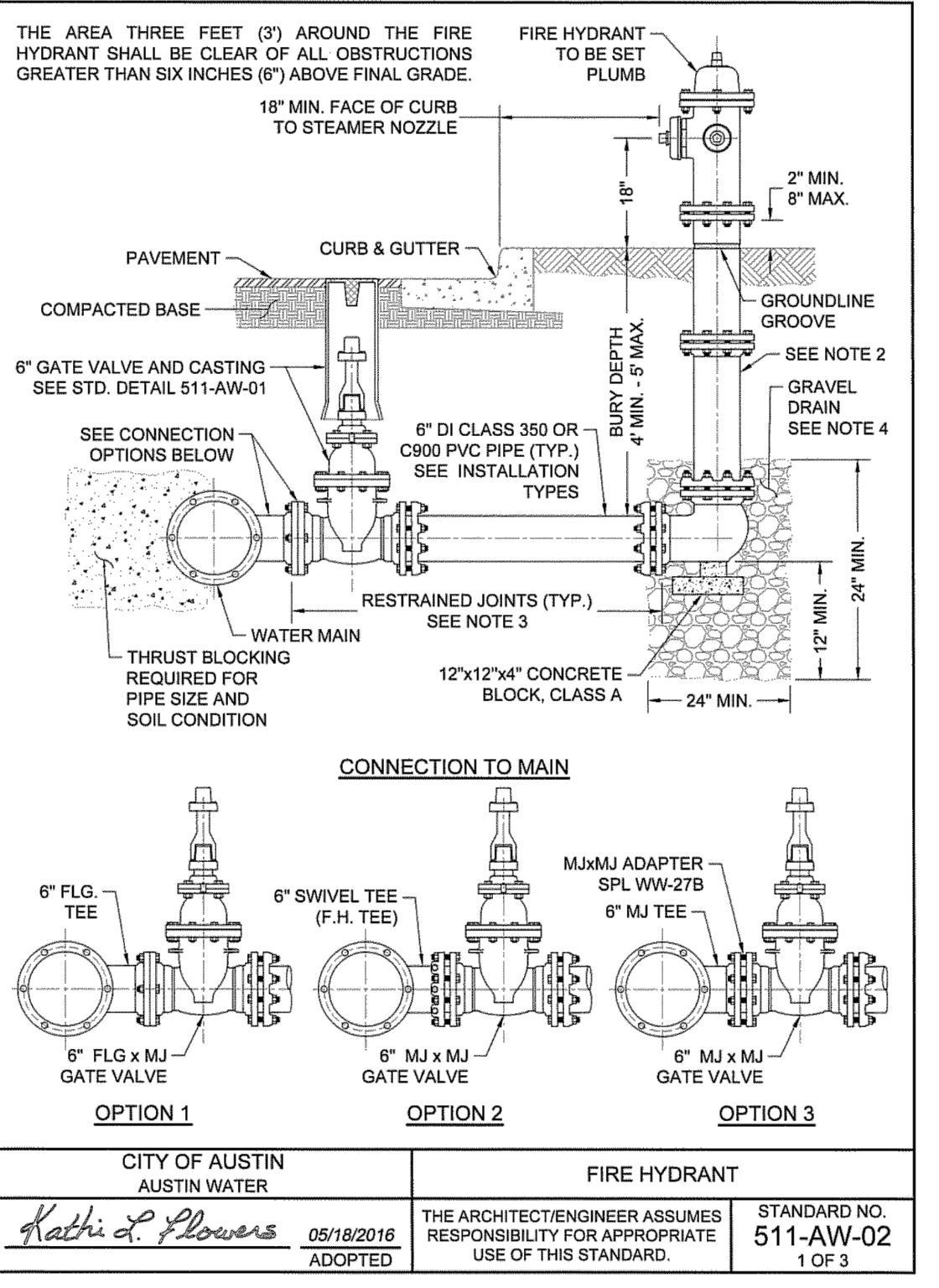
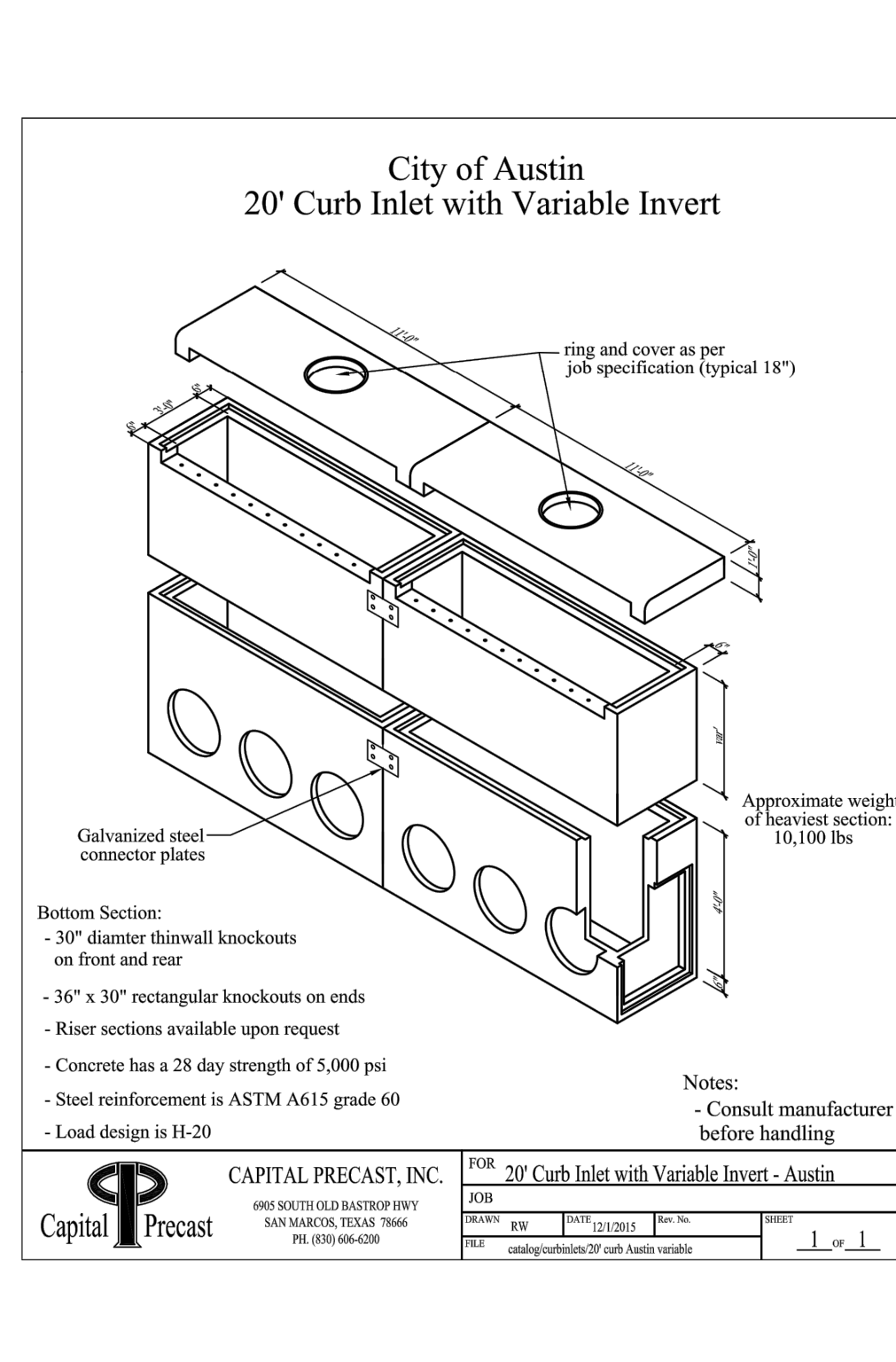
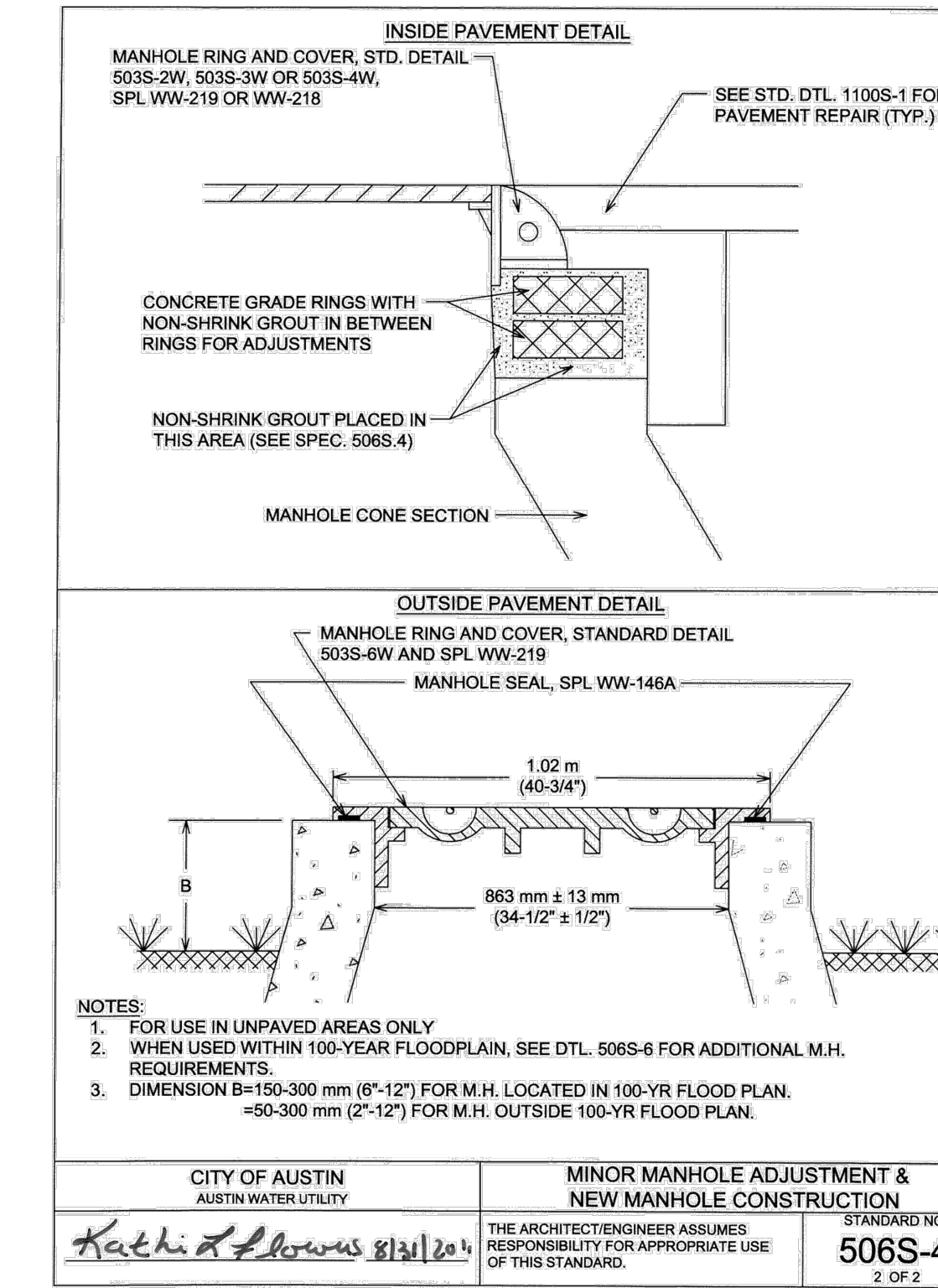
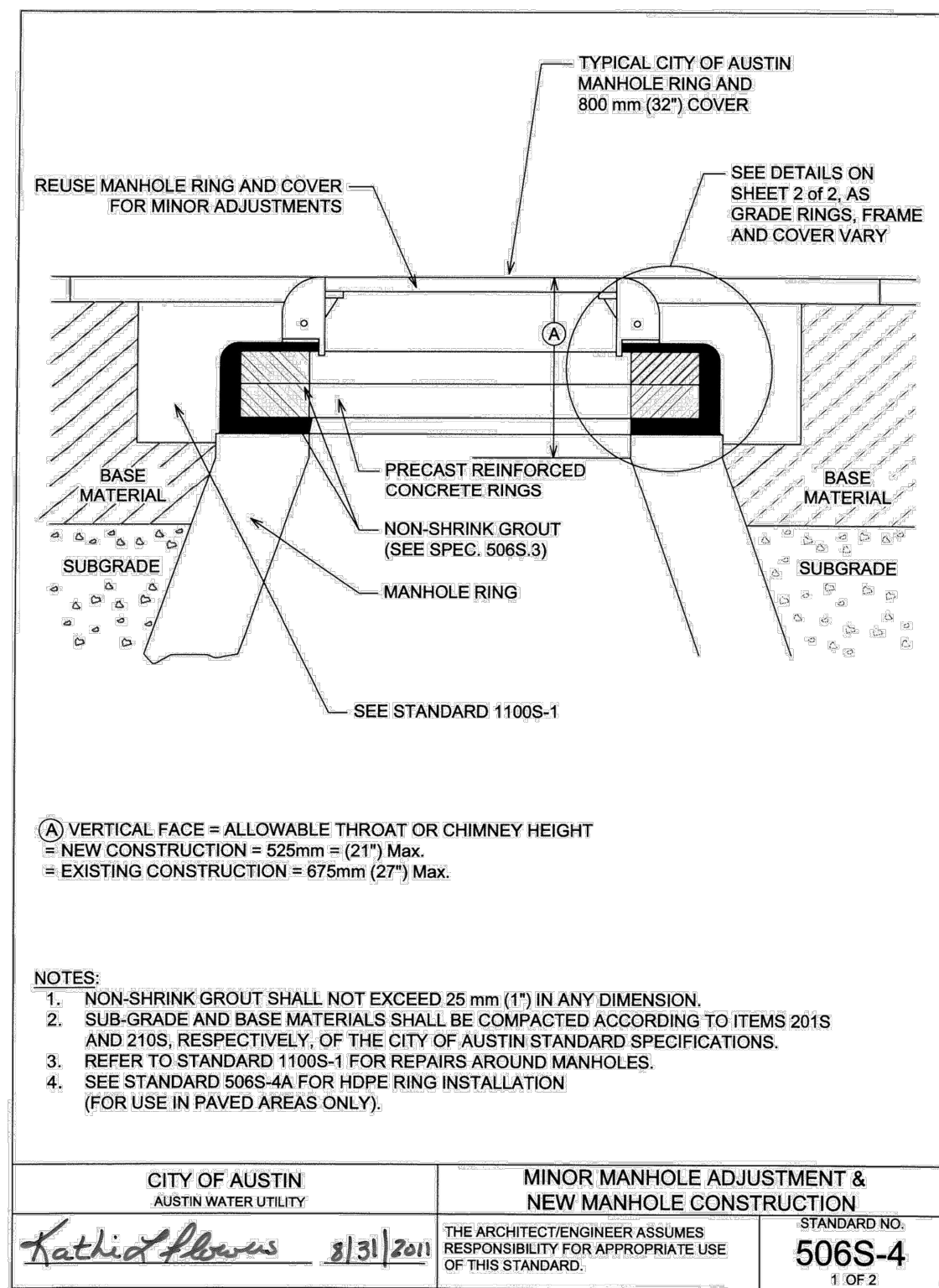
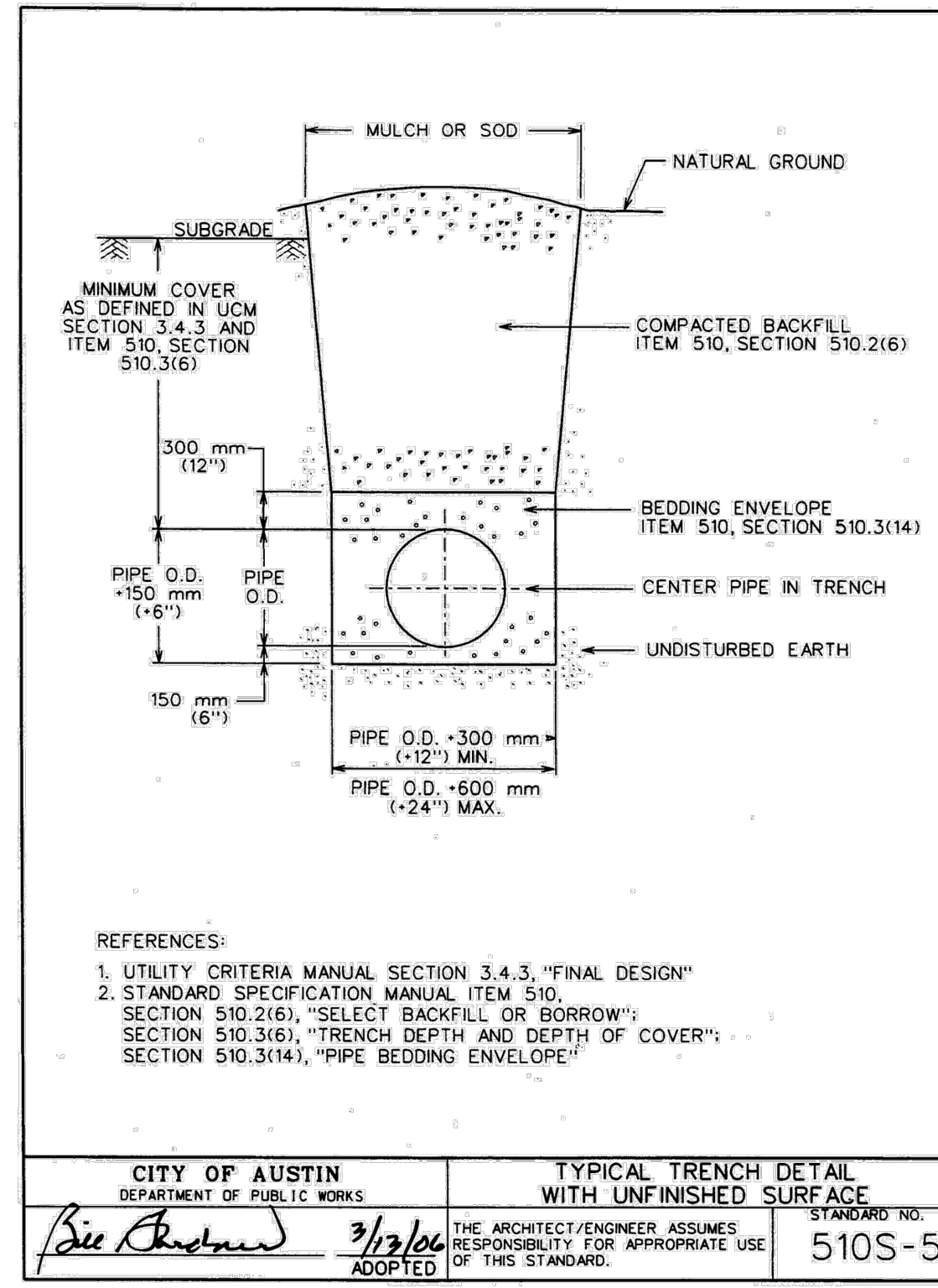
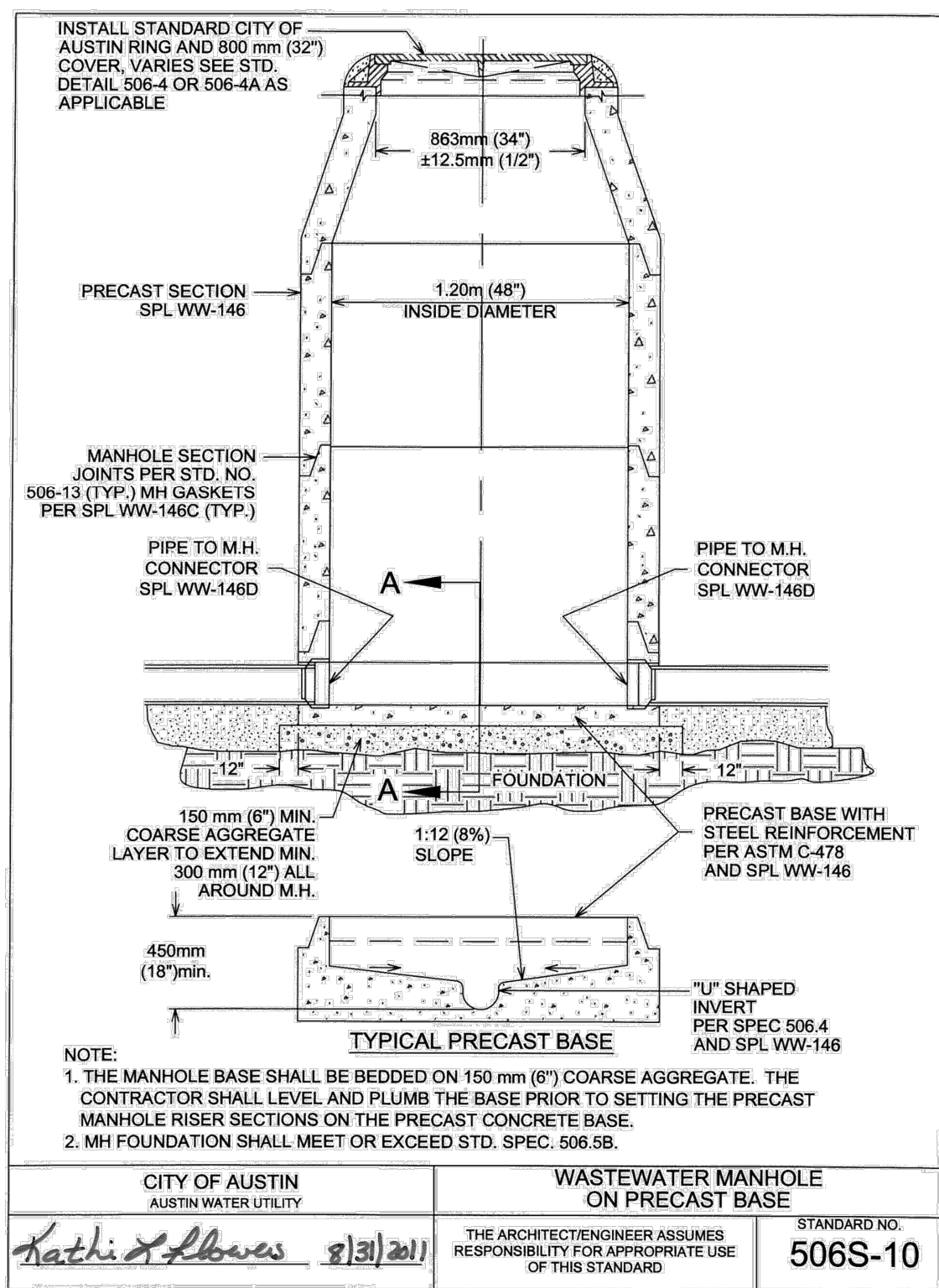
NO.	REVISIONS	DATE

CITY OF AUSTIN
 DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION
 DETAILS (1 OF 3)

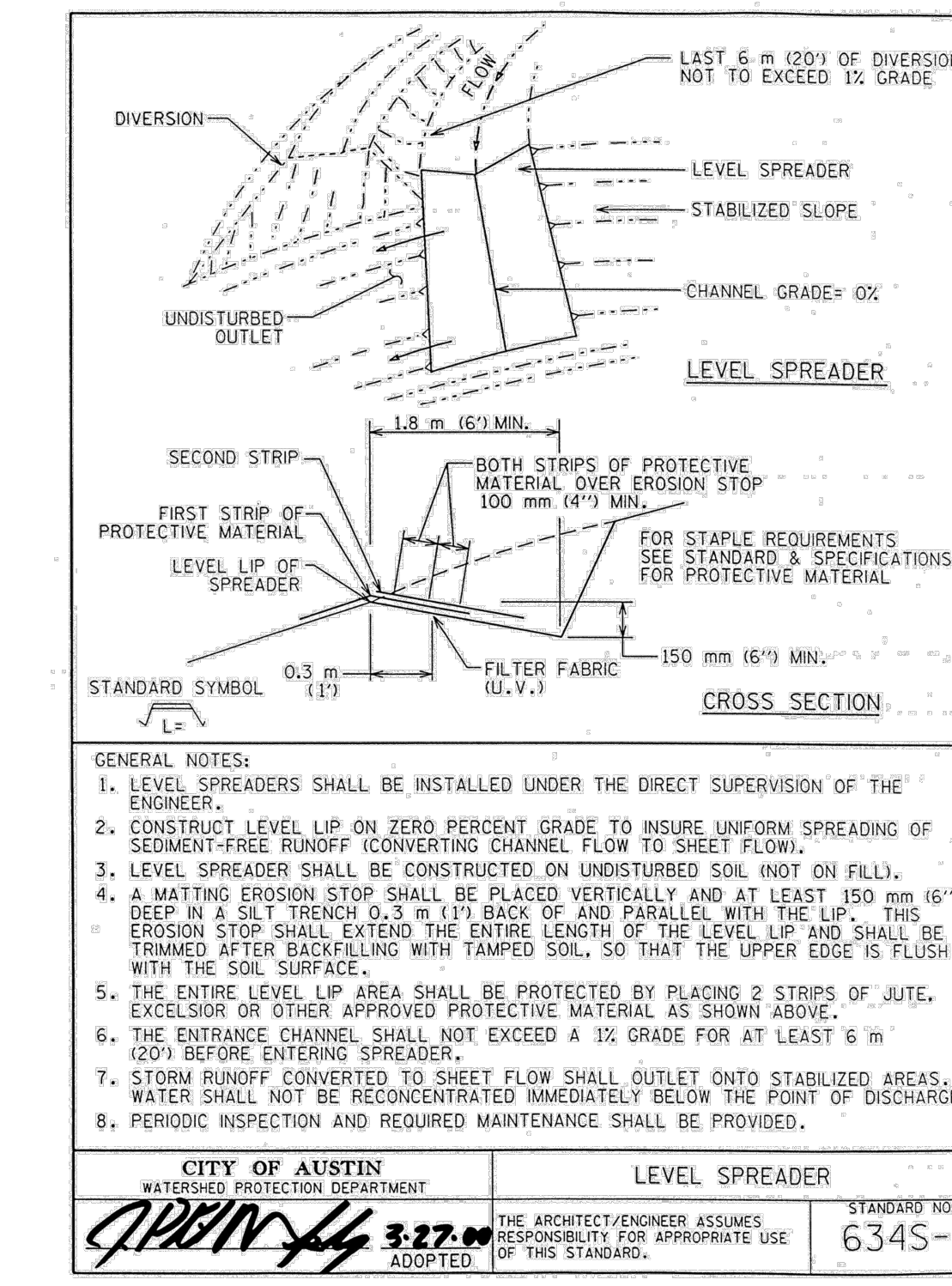
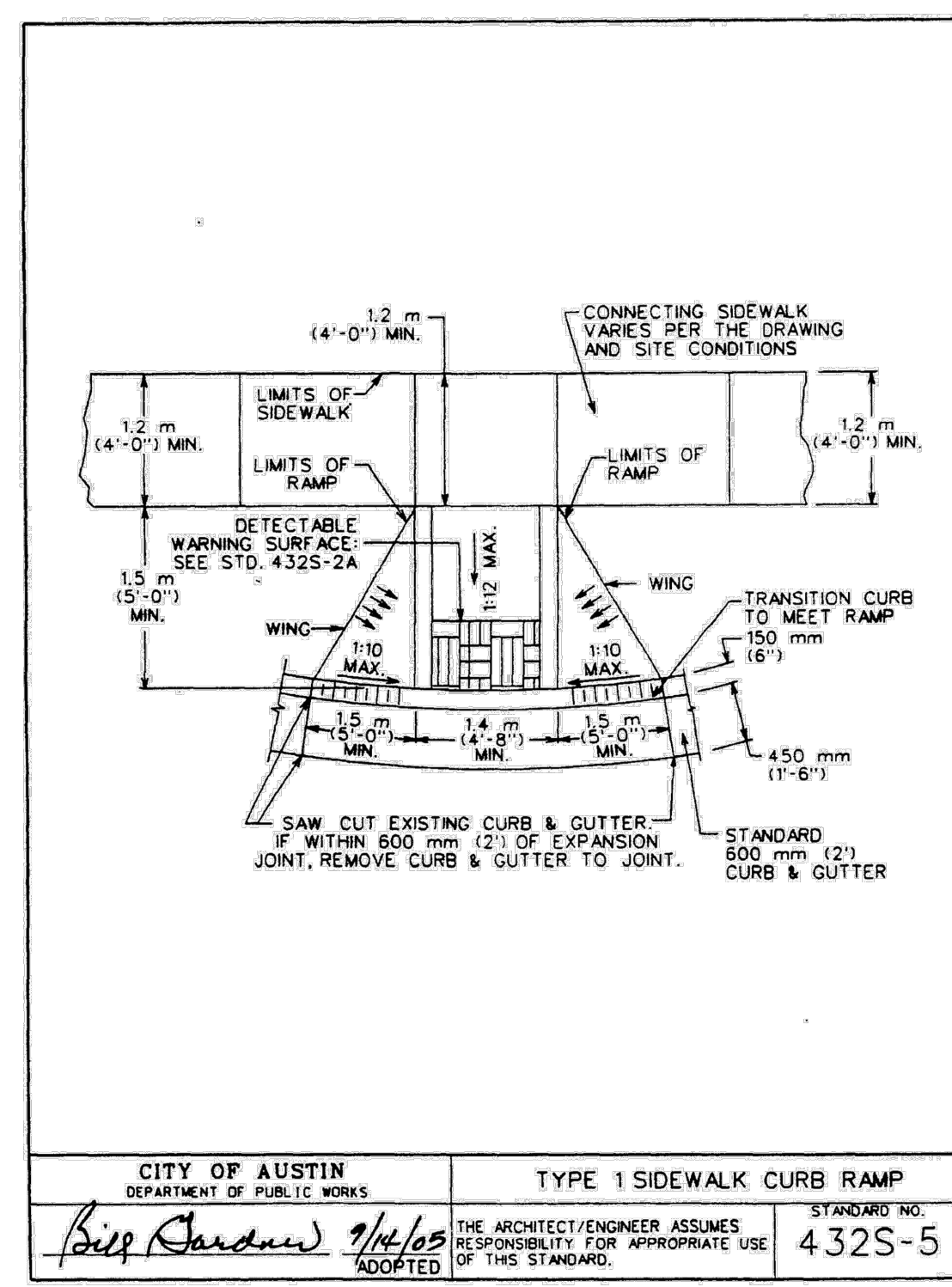
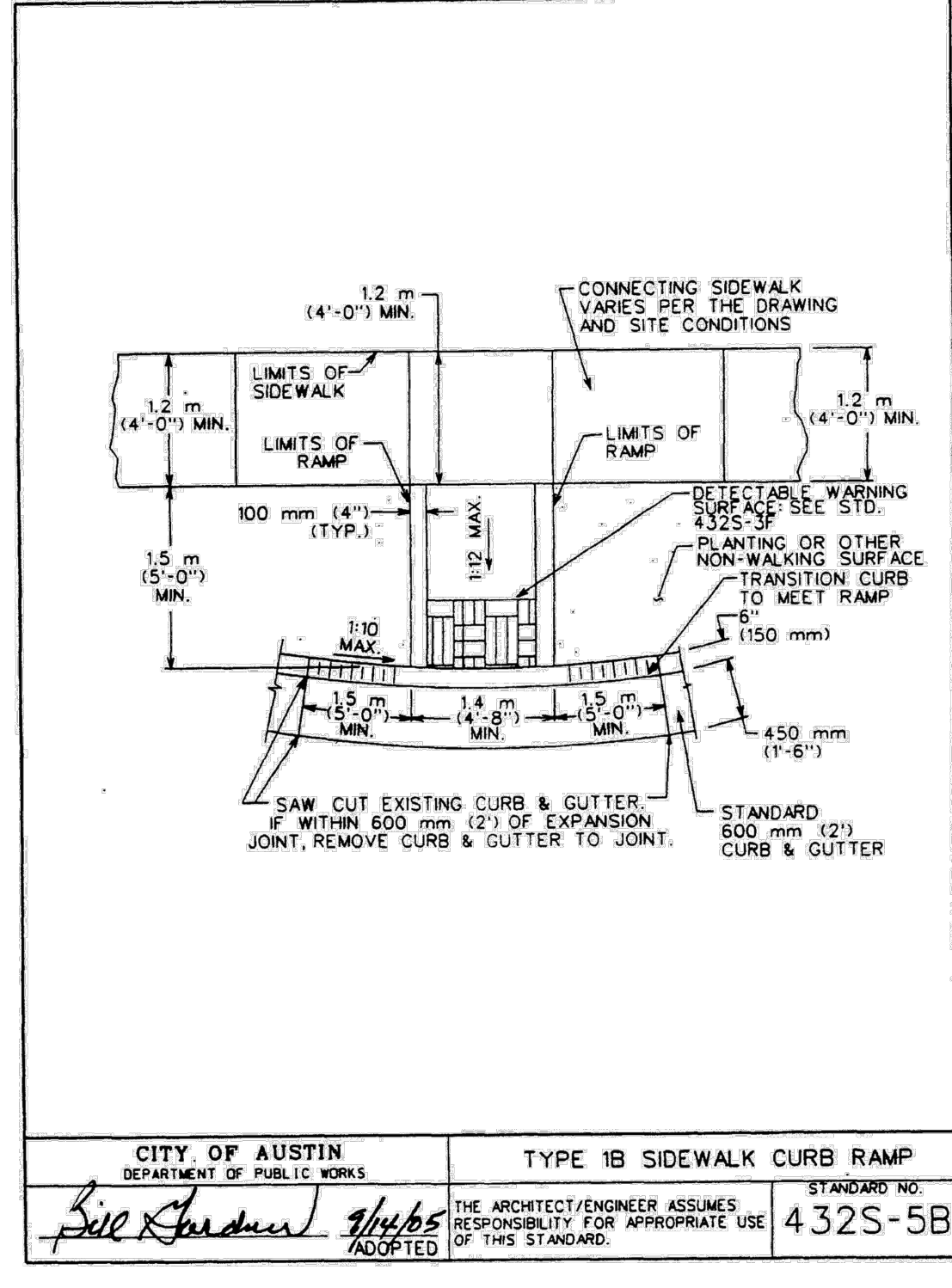
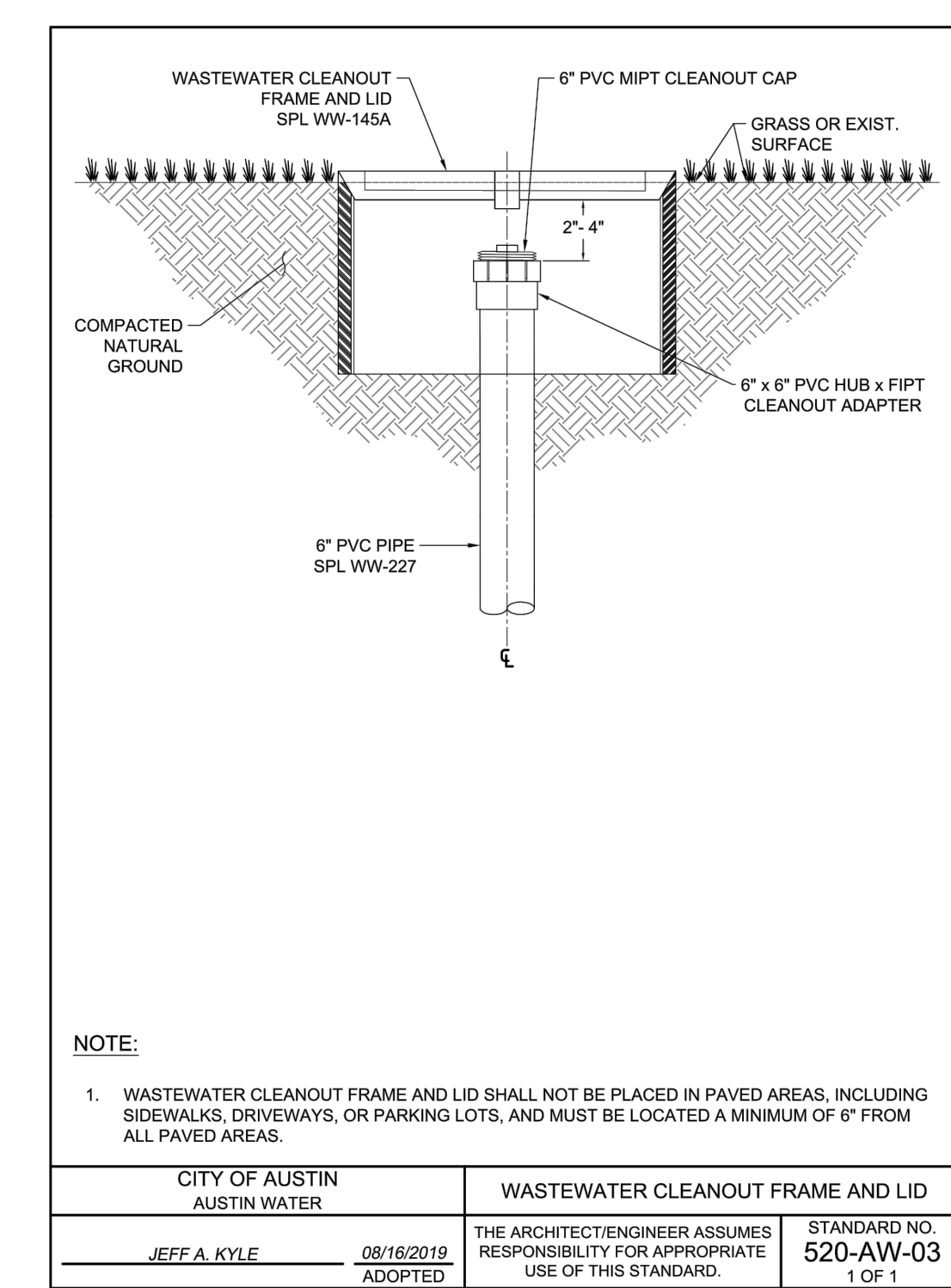
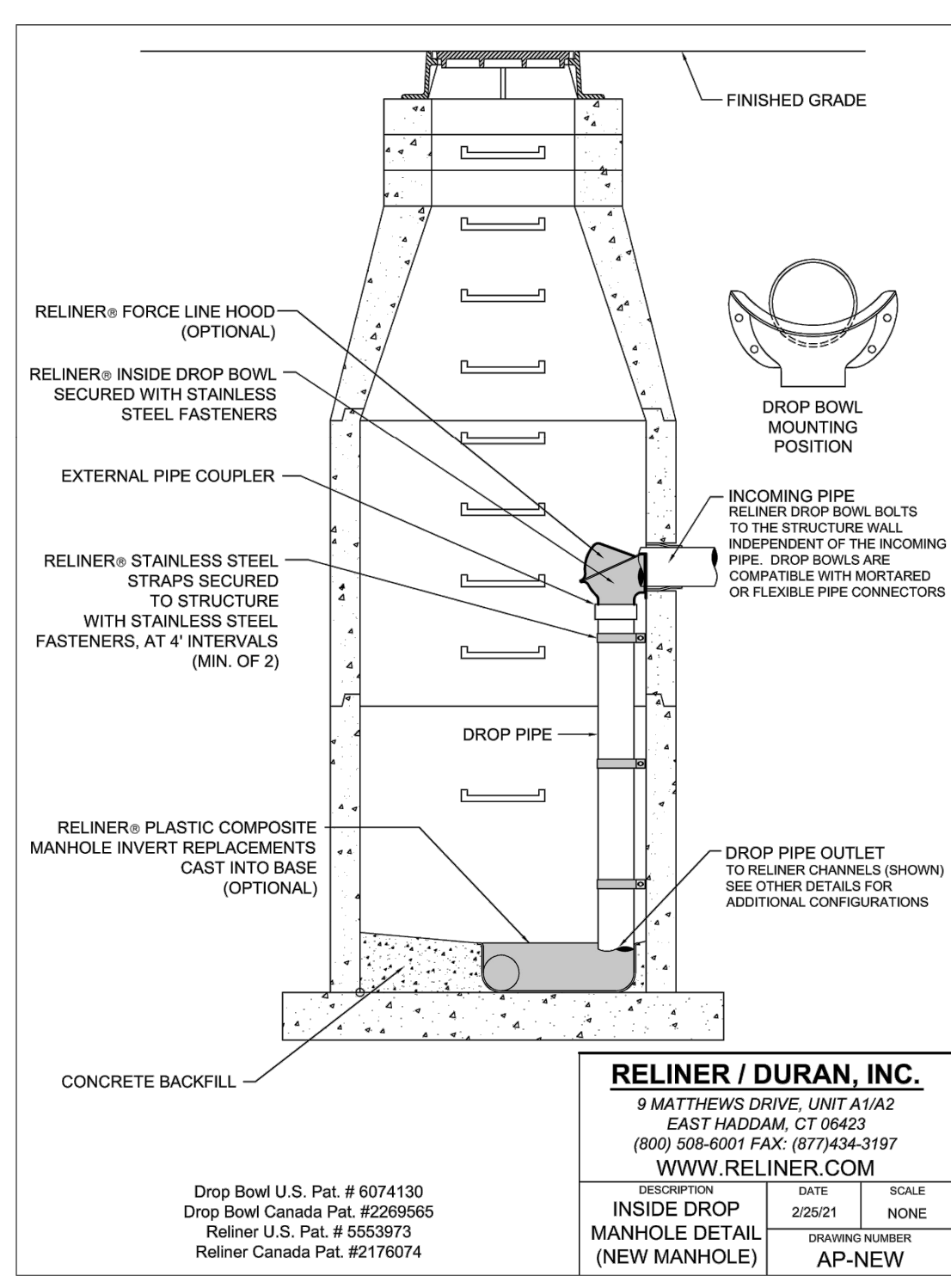
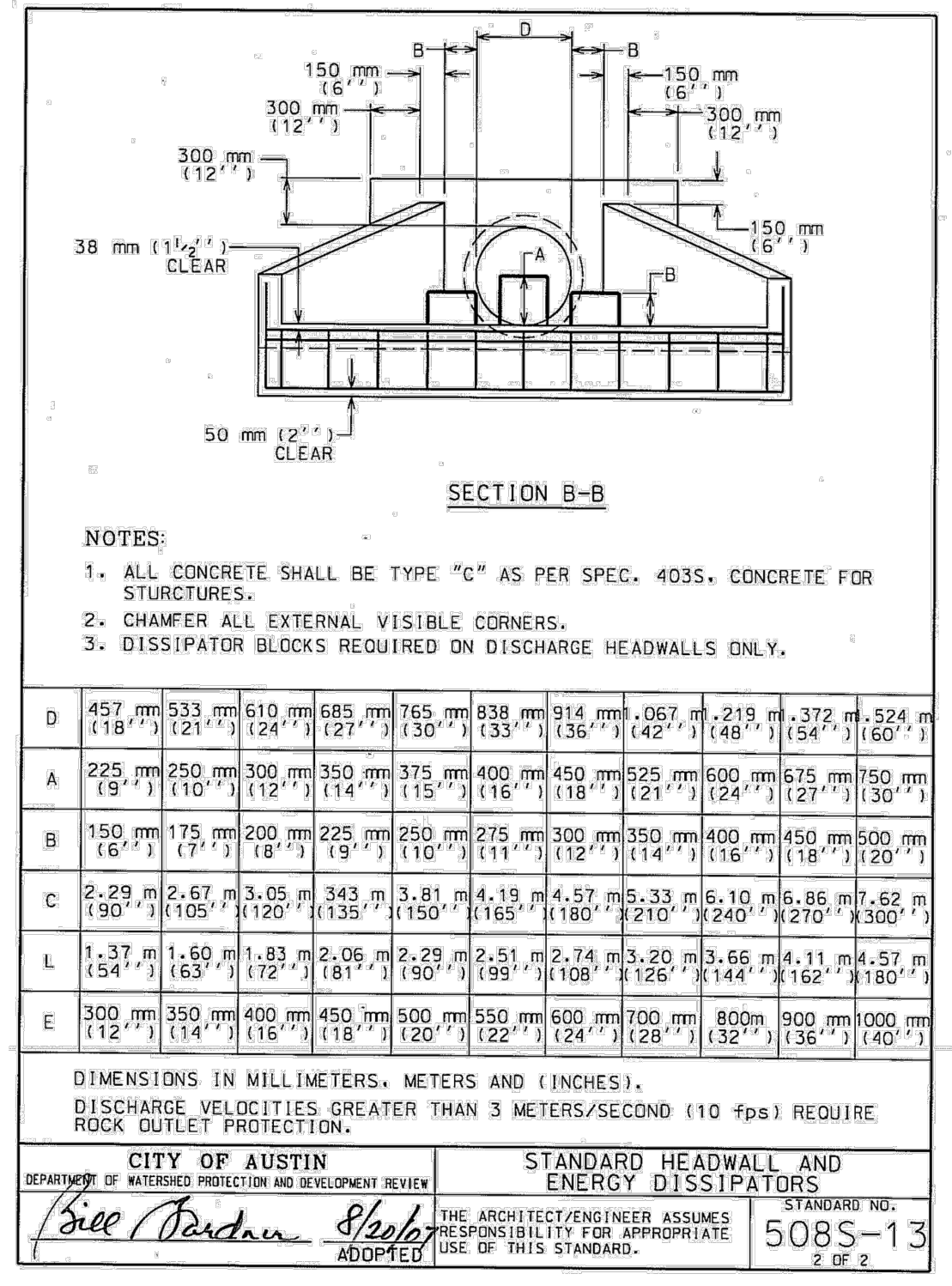
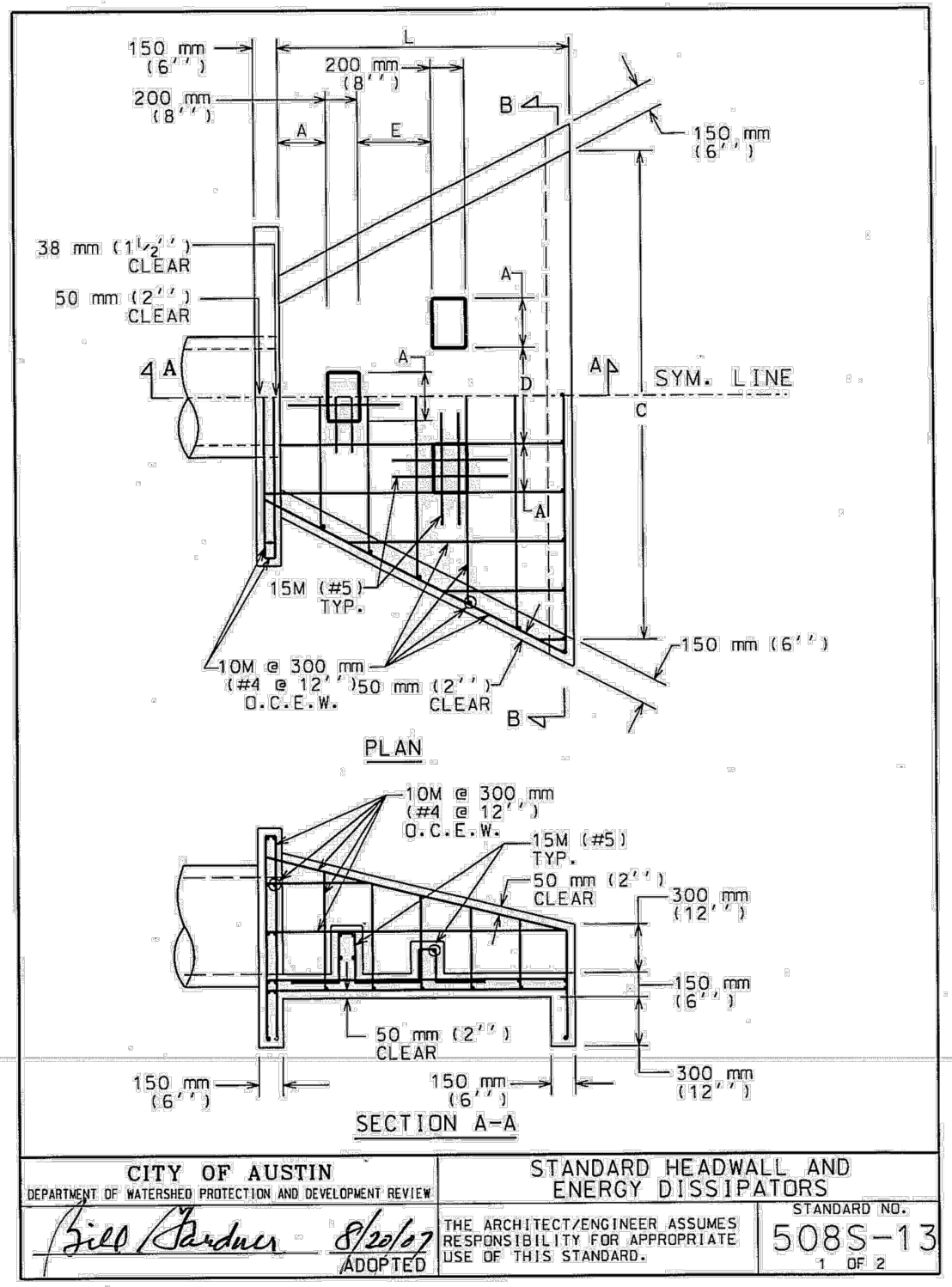
SWEETWATER CROSSING
 LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS

SHEET NUMBER
400F 44



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<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> CITY OF AUSTIN CONSTRUCTION DETAILS (2 OF 3) </p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> KHA PROJECT 067786844 DATE 02/23/2023 SCALE: AS SHOWN DESIGNED BY: RSB DRAWN BY: CRS CHECKED BY: BAB </p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS </p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);"> SHEET NUMBER 410F 44 </p>



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	NO		DATE
		REVISIONS	
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS			
TYPE 1B SIDEWALK CURB RAMP		STANDARD NO. 432S-5B	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.			
KHA PROJECT	DATE	SCALE	CHECKED BY:
067768844	02/23/2023	AS SHOWN	BAB
DESIGNED BY:	DRWN BY:	CRS	
RSB	RSB		
CITY OF AUSTIN CONSTRUCTION DETAILS (3 OF 3)			
SWEETWATER CROSSING LAST MILE FACILITY CITY OF BEE CAVE TRAVIS COUNTY, TEXAS			
SHEET NUMBER 42 OF 44			

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LOAD RATING

- P - PEDESTRIAN DUTY
- H - HEAVY DUTY (H20)
- X - EXTRA HEAVY DUTY (H40)

COVER/GRATE STYLE

- A - CAST IRON (PHX)
- B - DUCTILE IRON (PHX)
- J - BRONZE (P)
- Z - NONE

FRAME/BASIN STYLE

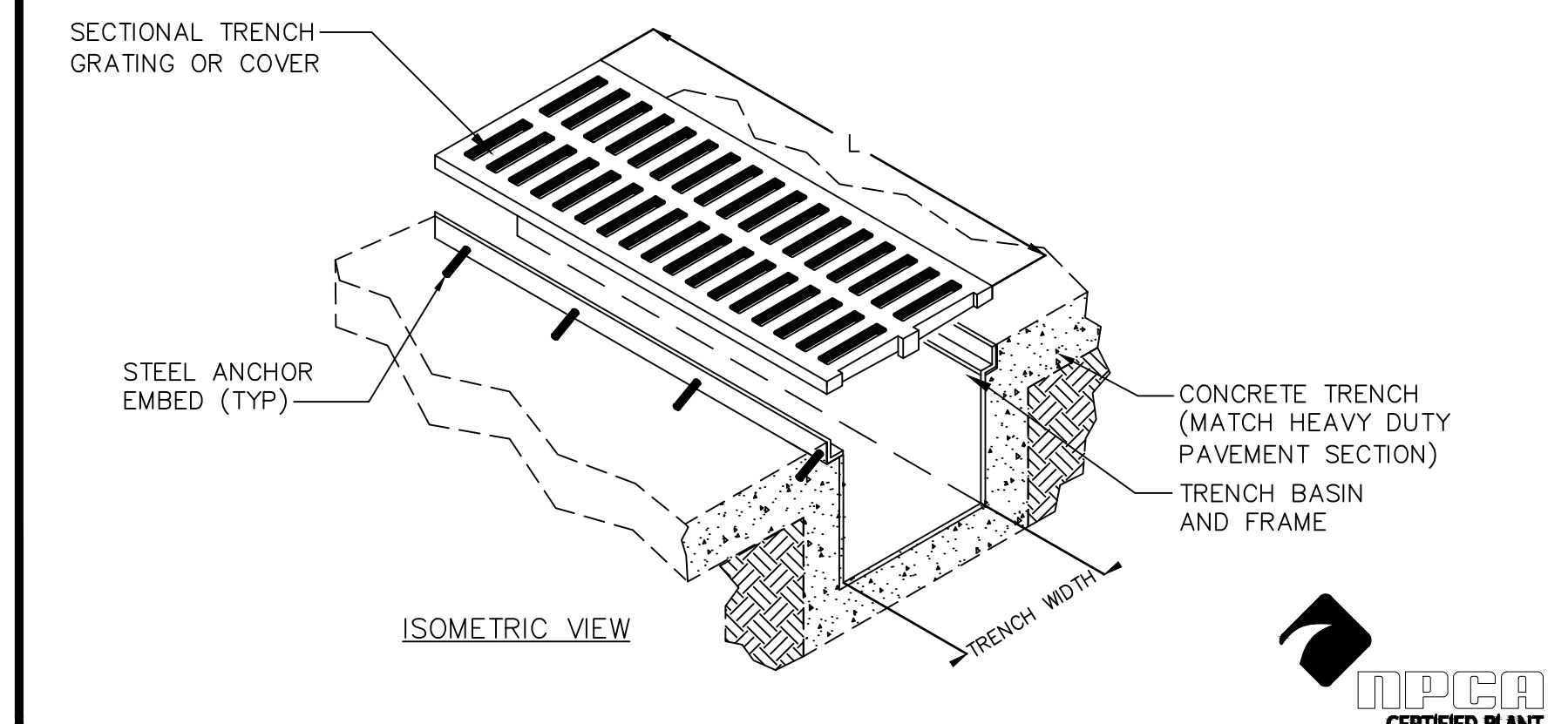
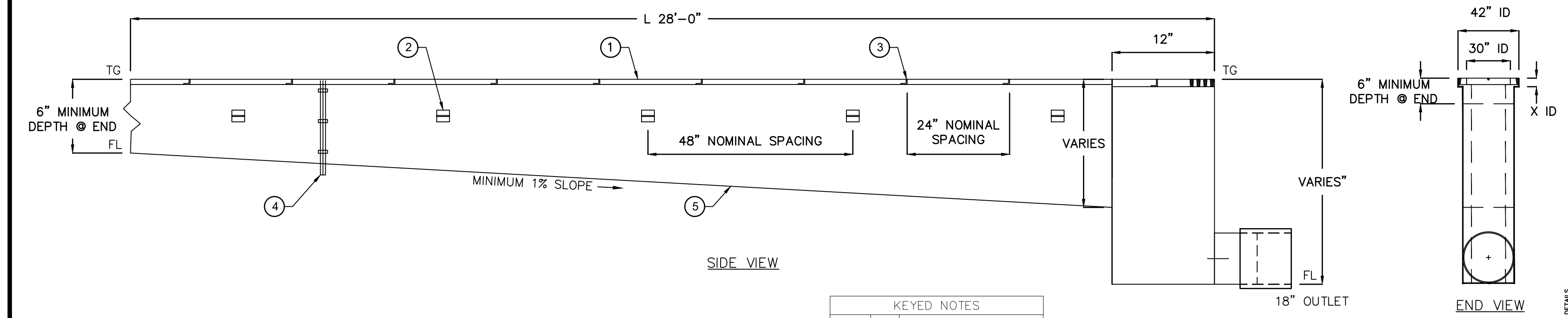
- A - GALVANIZED STEEL
- B - STAINLESS STEEL
- C - HD POLYETHYLENE
- D - POLYPROPYLENE
- E - FIBERGLASS
- H - FIBERGLASS (P)
- Z - NONE

MODEL NUMBER

MODEL NUMBER: TG - C X A 42 360 44 ZZ

COVER/GRATE STYLE: C, X, A
 LOAD RATING: 42
 FRAME/BASIN STYLE: 360, 44
 OPTIONS: ZZ

*** SPECIFIED BY CUSTOMER ***



MARK	QTY	DESCRIPTION
1	1	XX"W GRATING W/ XX"W TRENCH OPENING, X" THK, X' LONG
2	-	LEVELING BRACKETS (AS REQ'D)
3	-	REMOVEABLE WALL SUPPORTS (AS REQ'D)
4	-	BOLTED SECTIONS (TYP)
5	1	PREFABRICATED TRENCH SYSTEM MFG: ParkUSA 888-611-PARK WWW.PARKUSA.COM MODEL: TG-CB

PROJECT: .
 CUSTOMER: .
 ENGINEER: .
 ORDER #: . PROJ #: .
 DATE: . LOCATION: .

PARK AND

www.parkusa.com 888-611-PARK

PREFABRICATED TRENCH SYSTEM
 MODEL TG-CB

PM	PC	DRN	ENG	DWG. NO.	REV.
DATE 01/2019					



SECTION C-C

DR 18 C900 PVC PIPE				SDR 35 PVC SEWER PIPE			
PIPE SIZE	CASING DIA.	RACI SPACERS	RACI SPACERS	PIPE SIZE	CASING DIA.	RACI SPACER	RACI SPACER
4"	10"	2F OR 2N	2F, 1G OR 2M OR 1E, 1H OR 2P	6"	10"	2F, 1G OR 1M, 1N	OR 1E, 2H OR 2P, 1Q
6"	12"	2F, 1G OR 2M OR 1E, 1H OR 2P	2F, 1G OR 1M, 2N OR 2E, 1H OR 1P, 2Q	8"	12"	2F, 1H OR 1P, 2Q	OR 3P
8"	14"	3F, 1G OR 2M, 1N OR 2E, 1H OR 2P, 1Q	4F OR 3M OR 3E OR 3P	10"	16"	4F OR 3M OR 3E OR 3P	
10"	16"	5F OR 3M, 1N OR 3E, 1H OR 3P, 1Q	5F OR 2M, 2N OR 3E, 1H OR 2P, 2Q	12"	18"	5F OR 2M, 2N OR 3E, 1H OR 2P, 2Q	
12"	20"	6F OR 4M OR 4E, OR 4P	6F OR 3M, 2N OR 4E, OR 3P, 2Q	15"	22"	6F OR 3M, 2N OR 4E, OR 3P, 2Q	
14"	22"	7F OR 5M OR 4E, 1H OR 5P	7F OR 5M OR 5E OR 5P	18"	24"	7F OR 5M OR 5E OR 5P	

	NO.		REVISIONS
	BY		DATE

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KHA PROJECT	067786844	DATE	02/23/2023	SCALE	AS SHOWN
DESIGNED BY:	RSB	CHECKED BY:	CRS	DATE	06/01/2023

CONSTRUCTION
DETAILS (2 OF 2)

SWEETWATER CROSSING
LAST MILE FACILITY
 CITY OF BEE CAVE
 TRAVIS COUNTY, TEXAS

SHEET NUMBER
44 OF 44