



BIG CHIEF STORAGE CONSTRIBUTING ZONE PLAN

Submitted to:

**Texas Commission on Environmental Quality
Region 11 Field Office (Austin)
12100 Park 35 Circle, Bldg. A, Rm 179
Austin TX 78753**

Submitted by / Agent:

**Eli Engineering, PLLC
700 Theresa Cove
Cedar Park, TX 78613
Office: (512) 658-8095
Attn: Gary Eli Jones, P.E.**

Owner / Applicant:

**Big Chief Storage, LLC
250 N Bagdad Rd
Leander, TX 78641
Voice: 512-280-3388
Attn: Mr. Terry Oliver**



A handwritten signature in black ink, appearing to read "Gary Eli Jones".

8/15/2023

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: BIG CHIEF STORAGE					2. Regulated Entity No.:				
3. Customer Name: BIG CHIEF STORAGE, LLC					4. Customer No.:				
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	<input type="radio"/> Modification			<input type="radio"/> Extension		<input type="radio"/> Exception		
6. Plan Type: (Please circle/check one)	<input type="radio"/> WPAP	<input checked="" type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT	<input type="radio"/> Technical Clarification	<input type="radio"/> Optional Enhanced Measures
7. Land Use: (Please circle/check one)	<input type="radio"/> Residential		<input checked="" type="radio"/> Non-residential			8. Site (acres):			5.74 AC
9. Application Fee:	\$5000		10. Permanent BMP(s):			Batch Detention			
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):			N/A			
13. County:	Williamson		14. Watershed:			SOUTH FORK SAN GABRIEL RIVER			

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.)	—	—	_x_
Region (1 req.)	—	—	_x_
County(ies)	—	—	_X_
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 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.

Gary Eli Jones, P.E.

Print Name of Customer/Authorized Agent

Gary Jones 8/15/2023

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):

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.

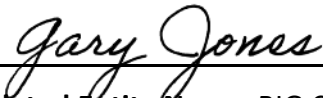
Signature

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: Gary Eli Jones, P.E.

Date: 5/21/23

Signature of Customer/Agent:



Regulated Entity Name: BIG CHIEF STORAGE

Project Information

1. County: Williamson
2. Stream Basin: SOUTH FORK SAN GABRIEL
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

Contact Person: TERRY OLIVER

Entity: BIG CHIEF STORAGE, LLC

Mailing Address: 250 N BAGDAD ROAD

City, State: LEANDER, TX

Telephone: 512-280-3388

Email Address: TOliver@apachemoving.net

Zip: 78641

Fax: N/A

5. Agent/Representative (If any):

Contact Person: Gary Eli Jones, P.E.

Entity: Eli Engineeing, PLLC

Mailing Address: 700 Theresa Cove

City, State: Cedar Park, TX

Zip: 78613

Telephone: 512-658-8095

Fax: N/A

Email Address: geitexas@gmail.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 LEANDER.
- 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.

210 LEN BAR LANE. PROJECT IS LOCATED ON AOUTH SIDE OF LEN BAR JUST PAST THE 1ST DRIVEWAY ON RIGHT WHICH IS OFF OF CR 270 IN LEANDER, TX.

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): 5.74 Acres

Total disturbed area: 3.73 Acres

14. Estimated projected population: 8 Employess on site

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

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	26,850	÷ 43,560 =	0.62
Parking	30,649	÷ 43,560 =	0.70
Other paved surfaces	0	÷ 43,560 =	0
Total Impervious Cover	57,499	÷ 43,560 =	1.32

Total Impervious Cover 1.32 ÷ Total Acreage 5.74 X 100 = 23% 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
- Asphaltic 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 pavement area: _____ feet.

Width of pavement area: _____ 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 _____ (name) Treatment Plant. The treatment facility is:

Existing.

Proposed.

N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

N/A

27. Tanks and substance stored:

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):

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" = 30'.
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): FEMA FIRM Map / Map Service Center / 48491C0455F Eff. 12/20/2019.
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: _____.
 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

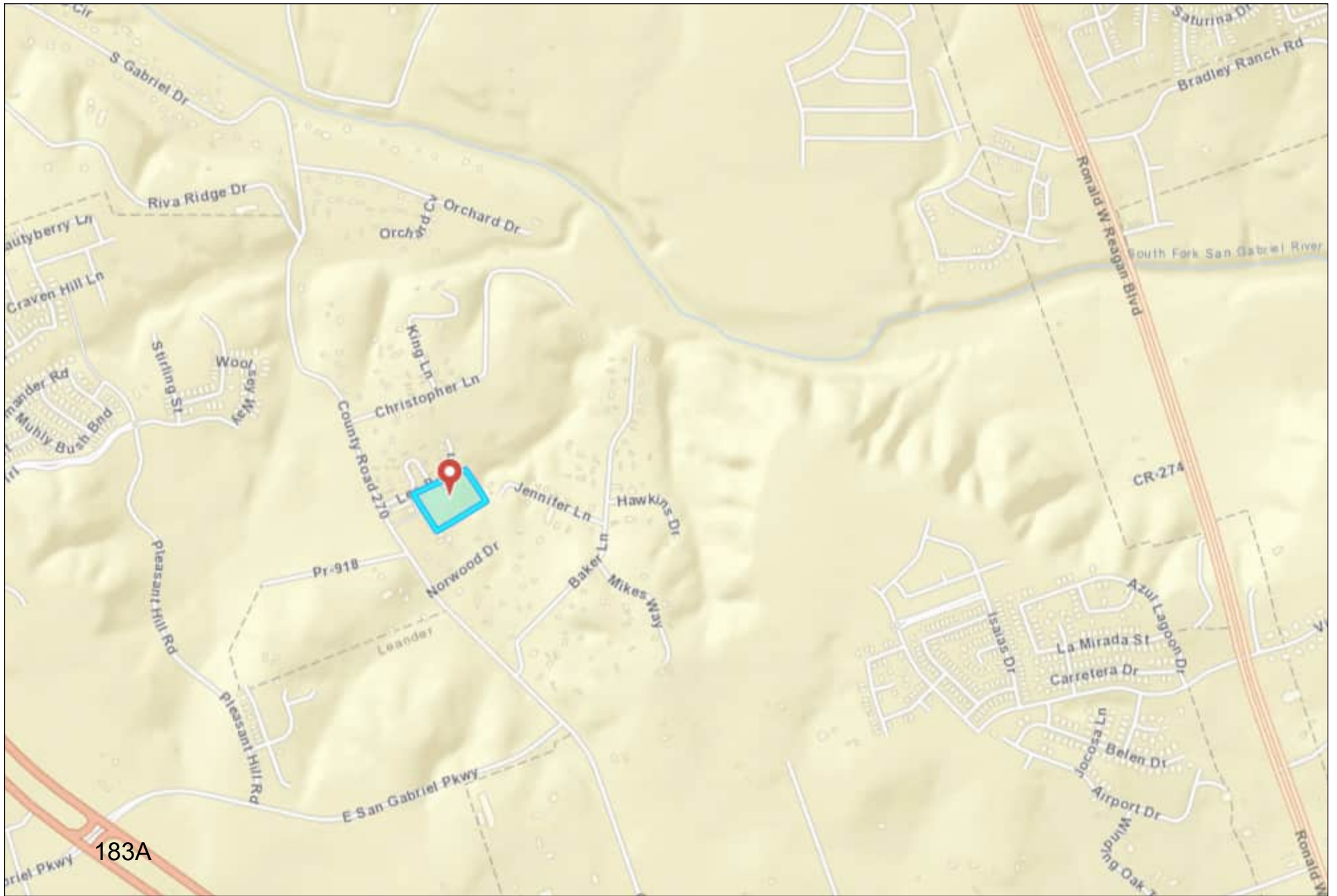
Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

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.



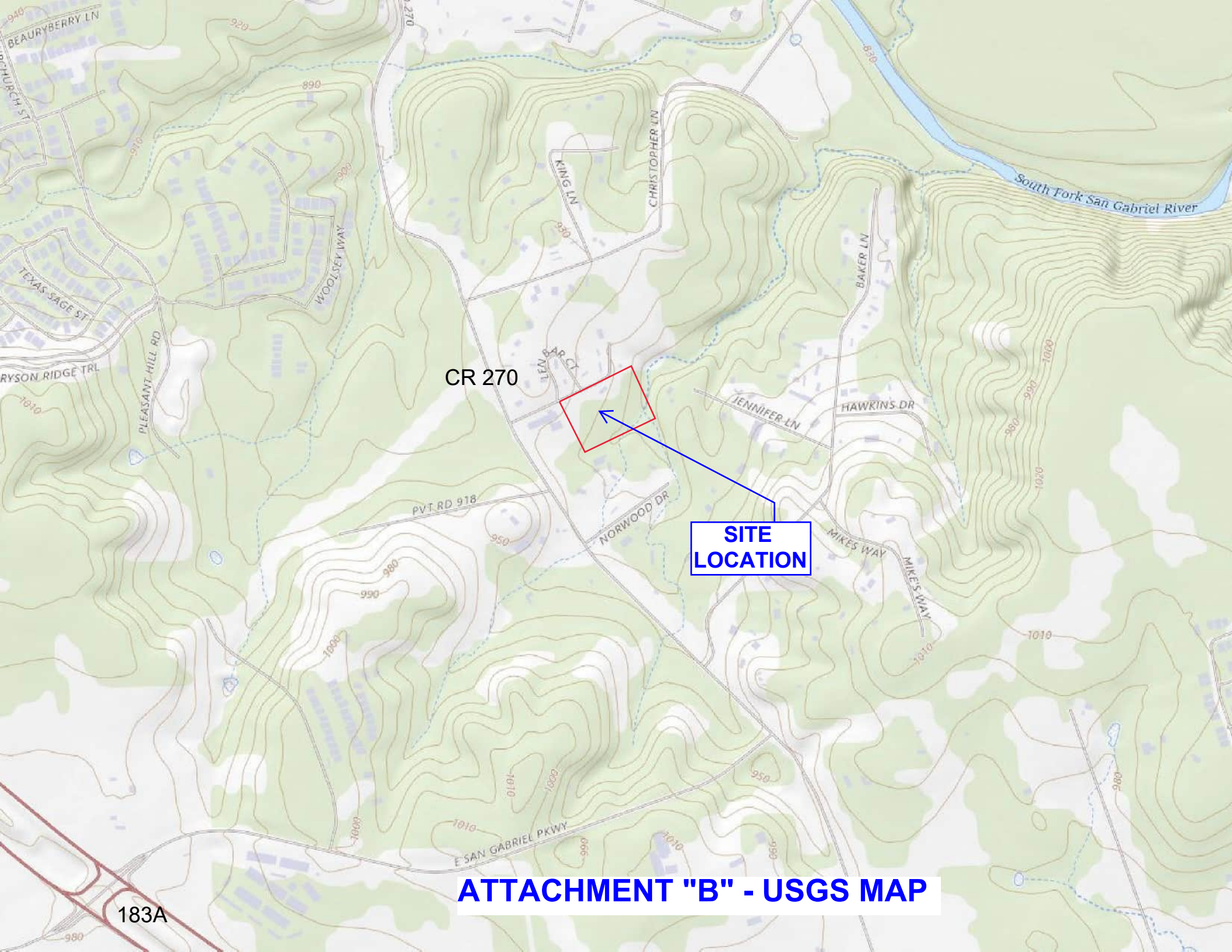
ATTACHMENT "A" - ROAD MAP

Web Print: 05/21/2023



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.





CR 270

**SITE
LOCATION**

ATTACHMENT "B" - USGS MAP

183A



Firm # 17877

August 16, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Contributing Zone Plan Permit
Attachment C-Project Narrative**

To Whom It May Concern:

Eli Engineering, PLLC is pleased to submit this Project Narrative accompanying the Contributing Zone plan application for the Big Chief Storage project. This project, located at 210 Len Bar Lane, Leander Texas. The 5.74 acre property is part of the South San Gabriel Ranches which was platted in 1969. The existing home storage shed and driveways on the property (~0.06 ac) will be removed. The existing improvements were built around 1987 according to Appraisal District records which means they were in place prior to June 1, 1999 when CZP rules were effective. The proposed project consists of two 12,000 SF storage buildings and one 2,850 SF office building along with a fire storage tank, access roads and detention/water quality pond.

The project is located in the Edwards Aquifer Contributing Zone. Domestic water will be provided by Aqua Water and wastewater for the small office will be permitted through Williamson County Septic Department. Pedernales Electric will provide electric service to the property. The site has two unnamed creeks entering along its southern boundary that then combine into one branch approximately 180-ft north of the south-eastern corner of the lot. Both branches and stream leaving this confluence are classified as a FEMA Zone A (approximate) per FIS Map 48491C0455F (effective date of December 20, 2019). A detailed drainage study of the property has been prepared per Williamson County Flood Order requirements to establish the Atlas 14 floodplain and base flood elevations for the property. The proposed buildings are well above base flood elevations.

The permanent BMP for the development includes batch detention. The total impervious cover for the site is 1.32 ac (23%) with 0.06 ac of existing impervious cover. A total of 1.88 acres of the property will drain to the batch detention pond. The total 4,824 CF of water quality volume required for the site is provided in the pond. Water quality volume in the pond will be provided up to elevation 894.85 with a

volume of 4,960 CF. Full details of the calculations and proposed pond is included in the Site Plan Construction set.

There are two upstream drainage basins from unnamed creeks entering the southern boundary that combine into one branch approximately 180 feet north of the southeastern corner of the property. Both branches and stream leaving this confluence are classified as a FEMA Zone A (approximate) per FIS Map 48491C0455F (effective December 20, 2019). A detailed drainage study using Atlas 14 rainfall rates per Williamson County regulations has been prepared for the project to establish an accurate floodplain boundary and base flood elevations for the property. No development is proposed in the Atlas 14 floodplain. The proposed water quality / detention pond discharges to this tributary.

If you have any questions or need further assistance, please call me at 512-658-8095.

Sincerely,

A handwritten signature in black ink, appearing to read "Gary Eli Jones". The signature is fluid and cursive, with a long horizontal stroke at the end.

8/16/2023

Gary Eli Jones, P.E.
Authorized Agent



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment D-Factors Affecting Surface Water Quality**

To Whom It May Concern:

The proposed 5.74 acre property includes proposed impervious cover of 23% when fully developed. The impervious cover will be routed to the proposed detention/water quality pond in the SE corner of the property, just upstream of the Atlas 14 floodplain. The permanent BMP proposed for the property is a batch detention system with 4,960 CF of the pond dedicated to water quality. Due to the slope of the property and the size of the building footprints, grate inlets in and around the buildings are proposed to capture 100% of the proposed impervious cover and convey to the pond. There are no factors other than normal parking lot and building impervious cover proposed that would affect surface water quality. The outlet for the pond is proposed at the existing flowline of the property flowing to the unnamed tributary on the property.

If you have any questions or need further assistance, please call me at 512-658-8095.

Sincerely,

Gary Eli Jones, P.E.
Authorized Agent



May 21, 2023

Ms. Lillian Butler
 Texas Commission on Environmental Quality
 12100 Park 35 Circle, Bld A, Rm 179
 Austin, TX 78753

**Re: Big Chief Storage
 Attachment E-Volume and Character of Stormwater**

To Whom It May Concern:

The development of the site will Change the volume and character of the stormwater from the site. In order to deal with the slope of the property, there will be approximately 2475 CY of cut and 5520 CY of fill for a net of approximately 3045 CY of import required. The drainage area map is divided into seven (7) drainage areas to account for the areas draining to grate inlets and total 1.88 acres that drains to the pond. The remaining portion of the property does not propose any impervious cover, therefore it will drain directly to the creek and bypass the pond. All of the proposed impervious cover is routed to the proposed batch detention pond. A summary of existing and proposed flows at the analysis point may be seen below:

Detention pond rating table.

FRQ	ELEV (FT)	CUM VOL (AC-FT)	PEAK INFLOW (CFS)	PEAK OUTFLOW (CFS)	ALLOWABLE (CFS)	DELTA (CFS)
-	893.15	0.00	-	0.0	-	-
-	893.50	0.00	-	0.0	-	-
-	894.00	0.02	-	0.0	-	-
-	894.50	0.06	-	0.0	-	-
WQV	894.85	0.11	-	0.0	-	-
-	895.00	0.14	-	0.2	-	-
-	895.50	0.23	-	1.6	-	-
2	895.73	0.28	8.22	2.5	2.85	-0.4
-	896.00	0.33	-	5.6	-	-
10	896.06	0.34	13.15	6.5	7.42	-0.9
25	896.23	0.38	16.57	9.8	10.96	-1.1
100	896.47	0.43	22.27	15.3	17.14	-1.8
-	896.50	0.43	-	16.1	-	-

HMS results.

FEQ	HMS ELEMENT	DA (SQM)	PEAK Q (CFS)	TIME TO PEAK	RUNOFF VOL (IN)
2	PRE	0.0029	2.9	01Jan2023, 12:05	0.99
2	POST	0.0029	8.2	01Jan2023, 12:04	3.08
2	DET-POND	0.0029	2.5	01Jan2023, 12:17	3.01
2	DELTA	-	-0.4	-	-
10	PRE	0.0029	7.4	01Jan2023, 12:05	2.57
10	POST	0.0029	13.2	01Jan2023, 12:04	5.22
10	DET-POND	0.0029	6.5	01Jan2023, 12:11	5.12
10	DELTA	-	-0.9	-	-
25	PRE	0.0029	11.0	01Jan2023, 12:04	3.92
25	POST	0.0029	16.6	01Jan2023, 12:04	6.84
25	DET-POND	0.0029	9.8	01Jan2023, 12:09	6.73
25	DELTA	-	-1.1	-	-
100	PRE	0.0029	17.1	01Jan2023, 12:04	6.6
100	POST	0.0029	22.3	01Jan2023, 12:04	9.86
100	DET-POND	0.0029	15.3	01Jan2023, 12:08	9.73
100	DELTA	-	-1.8	-	-

Note, the summary above only considers the pre and post developed flows for the site and ignores all offsite flows per Williamson County floodplain regulations. The impervious cover proposed for the project is captured by the pond and the permanent BMP for the project will be Batch Detention in accordance with TCEQ RG-348 Technical Criteria.

If you have any questions or need further assistance, please call me at 512-658-8095.

Sincerely,



Gary Eli Jones, P.E.
Authorized Agent



Firm # 17877

May 31, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment F – Suitability Letter**

To Whom It May Concern:

There is no centralized collection of wastewater available for this project. There will be a small office for 8-employees with a permitted septic system through Williamson County Septic department. 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.

If you have any questions or need further assistance, please call me at 512-658-8095.

Sincerely,

Gary Eli Jones, P.E.
Authorized Agent

J. Terron Evertson, PE, DR, CFM

July 26, 2023

Big Chief Storage LLC
250 North Bagdad Road
Leander, Texas 78641

RE: 200 Len Bar Lane, Leander, Texas 78641
South San Gabriel Ranches, Lot 7 E/PT, ACRES 5.74

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

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

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

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

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

Sincerely,



Christopher Moreno, OS 35962
Williamson County - OSSF



Firm # 17877

May 31, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment J - BMPs for Upgradient Stormwater**

To Whom It May Concern:

There are two unnamed creeks that traverse the south portion of this property and merge in the SE corner. All offsite flow is conveyed through the property in the existing condition. The proposed development on the site is isolated from the floodplain and routed through the water quality / detention pond prior to being released to the Unnamed Creek. As part of the permitting process through Williamson County, we have prepared a detailed study of the Zone A floodplain using current Atlas 14 rainfall rates to establish base flood elevations on the property. All proposed development is outside the floodplain except for some very small ineffective flow areas along the creek. The remaining portion of the floodplain will remain in an existing condition, therefore no BMP's are required for the off site flows.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent



Firm # 17877

May 31, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment K-BMPs for On-site Stormwater**

To Whom It May Concern:

The proposed BMP for new on-site impervious cover is a batch detention pond. This BMP has a TSS removal efficiency of 91%. The outlet structure for the pond is designed so that the drawdown time of each basin does not exceed 48 hours. Based on the TCEQ Spreadsheet, 80% of the total annual mass loading of total suspended solids generated by regulated activity on the site is 1,100 lbs. The BMP catchment area is 1.88 acres with 1.33 ac of impervious cover. The TSS load removal from this catchment by the batch detention system is 1,100 lbs which results in a total volume required of 4,824 CF. The proposed water quality volume in the pond is 4,960 CF at elevation 894.85.

Temporary BMP's during construction include silt fence and inlet protection which will be maintained until the site is restored.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent

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

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

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

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

where:

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

A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

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

County = **Williamson**
 Total project area included in plan * = **5.74** acres
 Predevelopment impervious area within the limits of the plan * = **0.06** acres
 Total post-development impervious area within the limits of the plan * = **1.32** acres
 Total post-development impervious cover fraction * = **0.23**
 P = **32** inches

$L_{M \text{ TOTAL PROJECT}}$ = **1100** lbs.

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

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

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

Drainage Basin/Outfall Area No. = **1** "PR DA-1"
 Total drainage basin/outfall area = **5.74** acres
 Predevelopment impervious area within drainage basin/outfall area = **0.06** acres
 Post-development impervious area within drainage basin/outfall area = **1.32** acres
 Post-development impervious fraction within drainage basin/outfall area = **0.23**
 $L_{M \text{ THIS BASIN}}$ = **1100** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Batch Detention**
 Removal efficiency = **91** percent

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

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

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

where:

A_C = Total On-Site drainage area in the BMP catchment area

A_i = Impervious area proposed in the BMP catchment area

A_p = Pervious area remaining in the BMP catchment area

L_R = TSS Load removed from this catchment area by the proposed BMP

A_C = **1.88** acres

A_i = **1.32** acres

A_p = **0.56** acres

L_R = **1339** lbs

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

Desired L_M THIS BASIN = **1100** lbs.
 $F = 0.82$

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth = **1.16** inches
 Post Development Runoff Coefficient = **0.51**
 On-site Water Quality Volume = **4020** cubic feet

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

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

Storage for Sediment = **804**
Total Capture Volume (required water quality volume(s) x 1.20) = 4824 cubic feet



Gary Eli Jones

8/15/2023

BATCH DETENTION POND		
Contributing Drainage Area =	"PR DA-1"	
Total Drainage Area =	5.74	acre
Pre-Development I.C. =	0.06	acre
Post-Development I.C. =	1.32	acre
Post-Development I.C. Fraction =	0.23	
L_M TOTAL PROJECT =	1100	lbs
A_C =	1.88	acre
A_I =	1.32	acre
A_P =	0.56	acre
L_R =	1339	lbs
Desired L_M this basin =	1100	lbs
Fraction of Annual Runoff (F) =	0.82	
Rainfall Depth =	1.16	inch
Post Development Runoff Coefficient =	0.51	
On-site Water Quality Volume =	4020	cubic ft
Off-site area draining to BMP =	0.00	acre
Off-site Impervious cover draining to BMP =	0.00	acre
Impervious fraction of off-site area =	-	
Off-site Runoff Coefficient =	-	
Off-site Water Quality Volume =	0	cubic ft
Storage for Sediment =	804	cubic ft
Total Capture Volume Required =	4824	cubic ft
Total Capture Volume Provided =	4960	cubic ft



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment L-BMP's for Surface Streams**

To Whom It May Concern:

There is an existing unnamed tributary on the south boundary of this property. No development is proposed in the tributary. Temporary BMP's including silt fence, J-hooks, stabilized construction entrance, concrete washout and inlet protection will be provided during construction and after the site is stabilized, the batch detention pond will provide water quality for the permanent BMP.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment M-Construction Plans**

To Whom It May Concern:

Construction plans and design calculations for the proposed permanent BMP 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 BMP and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent

GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- If blasting is planned by the Contractor, a blasting permit must be secured from Williamson County prior to commencement of any construction. Blasting will not be permitted within 15 feet of any existing utility lines or structures without prior written consent of the Engineer.
- Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc., that are damaged or removed shall be repaired or replaced by the contractor at no cost to the Owner.
- The Contractor shall verify all depths and locations of existing utilities prior to any construction. Any discrepancies with the construction plans found in the field shall be brought immediately to the attention of the Engineer.
- All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. Re-vegetation of all disturbed or exposed areas shall consist of sodding, seeding, at the Contractor's option. However, the type of re-vegetation must equal or exceed the type of vegetation present before construction unless otherwise requested by the property owner.
- The Contractor and the Engineer shall keep accurate records of all construction that deviates from the plans herein. The Engineer shall furnish Williamson County accurate "As-Built" drawings following completion of all construction. These "As-Built" drawings shall meet with the satisfaction of Brushy Creek MUD prior to final acceptance.
- Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities.

Available Benchmark Basis:
is described as follow:

TBM #1 - A 'box' cut into concrete culvert along north side of Len Bar Lane, 15' north of Len Bar pavement edge, and 553' east of County Road 270 pavement edge. Elev=917.70'

TBM #2 -

- Backfill behind curb shall be compacted to obtain a minimum of 95% maximum density to within 3" of top of curb. Material used shall be primarily granular material with no rocks larger than 6" in the greatest dimension. The remaining 3" shall be clean topsoil free from all clods and suitable for sustaining plant life.
- Depth of cover for all crossings under pavement including gas, electric, telephone, cable TV, water services, etc., shall be a minimum of 30" below subgrade.
- The subgrade material for the streets shown herein was tested by (NO PROPOSED STREETS).

Street	Crushed Limestone Base		HMCA
	Thickness	Thickness	Thickness
Concrete Pavement			5" light duty

The Geotechnical Engineer shall inspect the subgrade for compliance with the design assumptions made during preparation of the Soils Report. Any adjustments that are required shall be made through revision of the construction plans.

EROSION AND SEDIMENTATION CONTROL NOTES

- Erosion control measures, site work and restoration work will be done in accordance with the City of Austin Erosion and Sedimentation Control Ordinance.
- All slopes shall be sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in which they are applied.
- Brush berms, hay bales, sedimentation basins and similar recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Such installation shall be regularly inspected by Williamson County for effectiveness. Additional measures may be required if, in the opinion of the County Engineer, they are warranted.
- All temporary erosion control measures will not be removed until final inspection and approval of the project by the Engineer. It shall be the responsibility of the Contractor to maintain all temporary erosion control structure and to remove each structure as approved by the Engineer.

TRAFFIC MARKING NOTES

- Any methods, street markings and signage necessary for warning motorists, warning pedestrians or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest edition.
- The pavement markings, markers, paint, traffic buttons, traffic controls and signs shall be installed in accordance with the Texas State Department of Highways and Public Transportation Standard Specification for Construction of Highways, Streets and Bridges and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

TRENCH SAFETY NOTES

- In accordance with the Laws of the State of Texas and the U.S. Occupational Safety and Health Administration regulations, all trenches over 5 feet in depth in either hard or compact or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench Safety Systems to be utilized for this project shall be provided by Contractor as required in Section 509 of the City of Austin Standard Specifications.
- In accordance with the U.S. Occupational Safety and Health Administration regulations, when employees are required to be in trenches 4-foot deep or more, adequate means of exit, such as a ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.
- If trench safety system details were not provided because trenches were anticipated to be less than 5 feet in depth, and during construction it is found that trenches are in fact 5 feet or more in depth or trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the Engineer notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are submitted to and accepted by the City of Round Rock, and, a bid item for implementation of trench safety systems is added to the contract by change order.

Texas Commission on Environmental Quality Water Pollution Abatement Plan General Construction Notes

Edwards Aquifer Protection Program Construction Notes - Legal Disclaimer

The following listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction. Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or control activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes" is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation.

- A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
 - the name of the approved project;
 - the activity start date; and
 - the contact information of the prime contractor.
- All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.
- If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.
- No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
- Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
- Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
- Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.
- Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.
- If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- The following records shall be maintained and made available to the TCEQ upon request:
 - 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.
- The holder of any approved Edwards Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-2529 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329
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THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

TCEQ-0592 (Rev. July 15, 2015)

Page 2 of 2

SEQUENCE OF CONSTRUCTION

- CONDUCT PRE-CONSTRUCTION CONFERENCE
- INSTALL ALL EROSION CONTROL.
- ESTABLISH SUBGRADE ON SITE.
- CONSTRUCT DRIVEWAYS AND INSTALL ALL UNDERGROUND UTILITIES
- CONSTRUCT BUILDING PAD(S) PER STRUCTURAL ENGINEER'S SPECIFICATIONS.
- PROCESS AND COMPACT SUBGRADE TO FINAL GRADES.
- INSTALL PAVING
- FINAL BUILDING
- INSTALL ALL LANDSCAPE AND IRRIGATION, RE-VEGETATE ALL DISTURBED AREAS.
- REMOVE TEMPORARY EROSION CONTROL SUBSEQUENT TO ESTABLISHMENT OF VEGETATION.



Jun 14, 2023

TBPELS FIRM No. 17817



ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8606

geli@elieng.com

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
GENERAL NOTES

HORIZ = NTS
VERT = 1:1
DRAWING SCALE:
SURVEYED:
FILE NAME:
DATE:
DRAWN: GEJ
DESIGNED: EEI

SHEET
2
OF
19

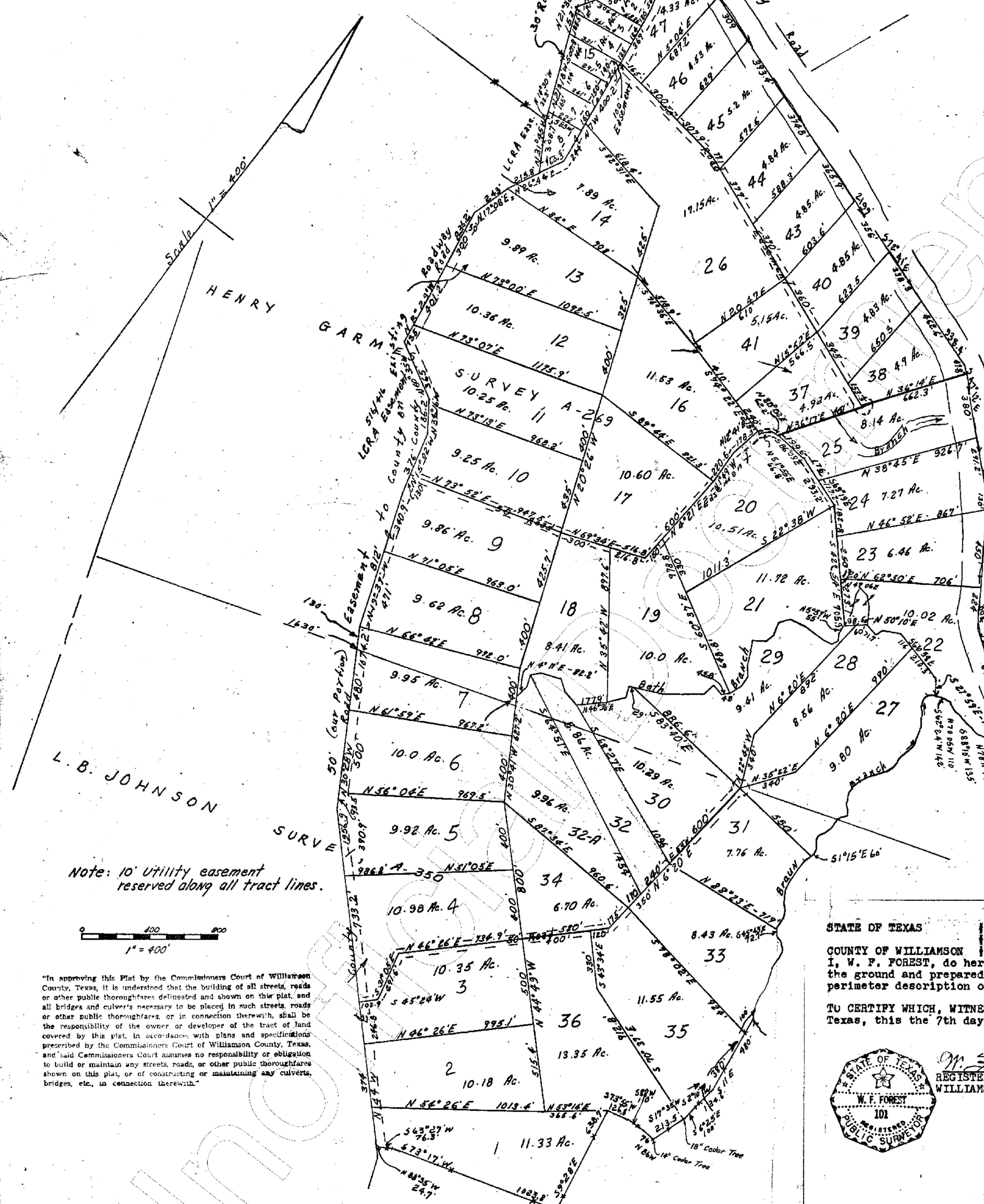
THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP

SOUTH SAN GABRIEL RANCHES

12
CABINET B
SLIDE 86

- Meanders of Braun Branch**
- S 66° 50' W - 54'
 - S 21° 23' E - 104.5'
 - S 26° 10' E - 170'
 - S 15° E - 94'
 - South - 122'
 - S 34° W - 193'
 - S 7° E - 107'
 - S 38° 40' E - 113'
 - S 39° 15' W - 50'
 - S 1° 15' W - 140'
 - S 63° 40' W - 45'
 - S 35° 55' E - 70.3'
 - S 1° 15' E - 280'
 - S 17° 45' E - 75.4'
 - S 60° 47' E - 58.2'
 - S 23° 45' E - 60'
 - S 2° E - 54'
 - S 29° 45' E - 70'
 - S 45° 43' E - 72.7'
 - S 1° E - 200'
 - S 10° 47' E - 222.1'

- Meanders of Beth Branch**
- N 4° 11' E - 82.2'
 - N 22° 59' W - 76.7'
 - N 42° 56' E - 66.9'
 - N 68° 56' E - 119.2'
 - S 55° 49' E - 84.9'
 - S 77° 44' E - 38.3'
 - N 46° 36' E - 177.9'
 - N 37° 03' E - 114.0'
 - N 16° 59' W - 68'
 - N 65° 10' E - 204.5'
 - N 57° 12' E - 129.3'
 - N 50° 39' E - 112.1'
 - N 10° 45' E - 78.6'
 - S 75° 15' E - 68.4'
 - N 43° 34' E - 48'
 - N 20° 19' E - 97.4'
 - N 0° 32' W - 63.5'
 - N 46° 04' W - 69.4'
 - N 28° 09' W - 152'
 - N 54° 06' E - 76.9'
 - N 16° 09' E - 59'
 - N 11° 53' W - 90.3'
 - N 38° 14' E - 68.9'
 - N 20° 26' E - 89.9'
 - S 29° 06' E - 138.8'
 - N 20° 21' E - 61'
 - N 35° 22' E - 418'
 - N 29° 14' W - 51.8'
 - N 5° 37' W - 149.2'
 - N 23° 44' W - 105.3'
 - N 3° 41' W - 49.4'
 - S 88° 28' E - 67.8'
 - S 47° 30' E - 67.4'
 - S 39° 30' E - 10.8'
 - S 71° 58' E - 71.7'
 - N 23° 03' E - 55.9'
 - N 69° E - 104.7'
 - S 66° 50' E - 324.3'
 - S 27° 59' E - 134.9'

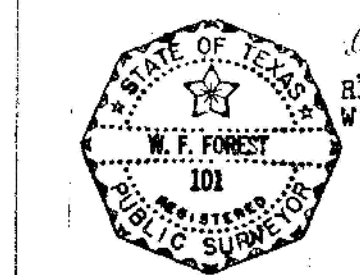


Note: 10' utility easement reserved along all tract lines.

"In approving this Plat by the Commissioners Court of Williamson County, Texas, it is understood that the building of all streets, roads or other public thoroughfares delineated and shown on this plat, and all bridges and culverts necessary to be placed in such streets, roads or other public thoroughfares or in connection therewith, shall be the responsibility of the owner or developer of the tract of land covered by this plat, in accordance with plans and specifications prescribed by the Commissioners Court of Williamson County, Texas, and said Commissioners Court assumes no responsibility or obligation to build or maintain any streets, roads or other public thoroughfares shown on this plat, or of constructing or maintaining any culverts, bridges, etc., in connection therewith."

STATE OF TEXAS
COUNTY OF WILLIAMSON
KNOW ALL MEN BY THESE PRESENTS,
I, W. F. FOREST, do hereby certify that I did survey on the ground and prepared the above plat and the attached perimeter description of South San Gabriel Ranches,
TO CERTIFY WHICH, WITNESS my hand and seal at Georgetown Texas, this the 7th day of June, 1969, A. D.

W. F. FOREST
REGISTERED PUBLIC SURVEYOR # 101
WILLIAMSON COUNTY SURVEYOR



553
FILED FOR RECORD
JUN 9 - 1969
DICK C. CRYSTAL
Clerk County Court Williamson Co., Texas

PROJECT / PERMIT #	
NO.	
DATE	
REVISION	
BY	



Jun 14, 2023
TEPELS FIRM No. 17817
ELI ENGINEERING
ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
512-658-8695

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
FINAL PLAT (1 OF 2)

DRAWING SCALE:	HORIZ = NTS	VERT = 1:1
SURVEYED:		
FILE NAME:		
DATE:		
DRAWN:	GEJ	
DESIGNED:	EEL	

SHEET
3
OF
19

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP

CABINET B 553 SLIDE 87

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

KNOW ALL MEN BY THESE PRESENTS:

That Gene Bilberry, Trustee, with principal offices and place of business in Kingsland, Llano County, Texas, owner of the hereon designated land out of the L. B. Johnson Survey, A-350 and the Henry Garmes Survey, A-269, in Williamson County, Texas, being that certain 407.56 acre tract conveyed by L. G. Whitehead et ux to Gene Bilberry, Trustee, by deed dated May 8, 1969 recorded in Vol. 517, Page 612, of the Deed Records of Williamson County, Texas, do hereby subdivide said 407.56 acres in accordance with the foregoing plat and do hereby adopt this plat and subdivision to be known as SOUTH SAN GABRIEL RANCHES and do hereby dedicate to the public use all streets and easements shown on said plat.

WITNESS MY HAND this the 22nd day of May A. D. 1969.

Gene Bilberry
GENE BILBERRY, TRUSTEE

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

BEFORE ME, the undersigned, a Notary Public in and for said County and State, on this day personally appeared Gene Bilberry, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the act of such corporation for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 22nd day of May A. D. 1969.

[Signature]
NOTARY PUBLIC IN AND FOR
WILLIAMSON COUNTY, TEXAS.

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

KNOW ALL MEN BY THESE PRESENTS:

That I, L. G. Whitehead, lienholder on the hereabove designated 407.56 acres of land out of the L. B. Johnson Survey, A-350 and the Henry Garmes Survey, A-269, Williamson County, Texas, as evidenced by Deed of Trust to Joe B. McMaster, Trustee, recorded in Vol. 139, Page 170, of the Deed of Trust Records of Williamson County, Texas, do hereby adopt this plat as a subdivision to be known as SOUTH SAN GABRIEL RANCHES, and do hereby dedicate to the public use, all streets and easements shown thereon.

WITNESS OUR HANDS this the 22nd day of May A. D. 1969.

L. G. Whitehead
L. G. WHITEHEAD

THE STATE OF TEXAS
COUNTY OF WILLIAMSON

BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared L. G. Whitehead, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 22nd day of May A. D. 1969.

[Signature]
NOTARY PUBLIC IN AND FOR
WILLIAMSON COUNTY, TEXAS

PERIMETER FIELD NOTES OF SOUTH SAN GABRIEL RANCHES

BEING 407.56 acres in Williamson County, Texas, 269.76 acres of the Henry Garmes Survey, Abst. # 269, and 137.8 acres of the L. B. Johnson Survey, Abst. # 350, being the same tract called 407.38 acres described in a deed to L. G. Whitehead of record in Vol. 451, Page 641, Deed Records, Williamson County, Texas. Surveyed on the ground by W. F. Forest, Registered Public Surveyor # 101, in May of 1969.

BEGINNING at an iron pin set beside a fence corner post at the lower S E corner of the Whitehead tract. This point stands S 73° E 4657 feet from the N W corner of the L. B. Johnson Survey.

THENCE S 73° 17' W 1023.8 feet with a fence to set an iron pin in a fence.

THENCE S 63° 27' W 76.3 feet to set an iron pin beside a fence corner post in the East line of a County Road.

THENCE N 88° 35' W 24.7 feet to set an iron pin in the center of the road.

THENCE with center of said road, marking all angle points with iron pins as follows; N 44° W 1956.9 feet, N 30° 28' W 1074.2 feet, N 19° 37' W 812 feet, N 15° 02' W 376 feet, N 34° 16' W 184.2 feet, N 60° 35' W 365 feet, N 8° 29' W 836.2 feet, N 17° 08' E 243 feet, N 26° 44' E 215.8 feet.

THENCE N 31° 45' W, leaving the road, at 61.7 feet pass a 17 inch Elm fence corner, continuing with an old fence 308.7 feet to a 14 inch Liveoak fence corner.

THENCE N 14° 30' W 33.3 feet, N 21° 18' W 500.8 feet, N 21° 30' W 153 feet, with an old fence to a fence corner.

THENCE N 33° 30' E, at 51 feet pass a field fence corner, in all 386 feet to set an iron pin at a bend in a fence.

THENCE N 15° 40' W with a fence, at 257 feet set an iron pin in the center of the road, 407 feet to a point in the center of the South San Gabriel River and N W corner of the Whitehead tract.

THENCE down stream down center of river, S 70° 38' E 2199 feet, S 72° 41' E 938.4 feet, S 47° 12' E 719 feet, S 34° 15' E 804 feet, S 54° 45' E 678.7 feet to a corner of Whitehead tract opposite the mouth of Braun Branch.

THENCE up said branch as follows; S 53° 30' W 155 feet, N 78° W 77 feet, S 88° 10' W 135 feet, N 70° 05' W 110 feet, S 62° 24' W 142 feet, setting iron pins at all angle points, to the junction of Braun and Beth Branches.

THENCE with Braun Branch, S 66° 50' W 54 feet, S 21° 23' E 104.5 feet, S 26° 10' E 170 feet, S 15° E 94 feet, South 122 feet, S 34° W 193 feet, S 7° E 107 feet, S 38° 10' E 113 feet, S 39° 15' W 50 feet, S 1° 15' W 140 feet, S 69° 40' W 45 feet, S 35° 55' E 70.3 feet, S 1° 15' E 280 feet, S 17° 45' E 75.4 feet, S 60° 47' E 58.2 feet, S 29° 45' E 60 feet, S 8° E 54 feet, S 29° 45' E 70 feet, S 45° 43' E 72.7 feet, S 1° E 200 feet, S 18° 47' E 222.7 feet to a fence corner at the head of this branch.

THENCE S 11° E 480 feet, S 2° 10' W 134.6 feet, S 6° 25' E 100 feet and S 17° 35' W 213.5 feet to a 14 inch cedar fence corner.

THENCE N 86° W 76 feet, S 88° W 110 feet, S 73° 55' W 126.8 feet with a fence to set an iron pin at a fence corner post.

THENCE S 9° 28' E 638.7 feet with an old fence to the POINT OF BEGINNING.

STATE OF TEXAS
COUNTY OF WILLIAMSON | KNOW ALL MEN BY THESE PRESENTS:
I, W. F. FOREST, do hereby certify that I did prepare the above description and made survey on the ground.
TO CERTIFY WHICH, WITNESS my hand and seal at Georgetown, Texas this the 7th day of June, 1969. A. D.



W. F. Forest
W. F. FOREST
REGISTERED PUBLIC SURVEYOR # 101
WILLIAMSON COUNTY SURVEYOR

BE IT RESOLVED BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS,

1. That the owner, Gene Bilberry, Trustee, of that certain tract of land designated "South San Gabriel Ranches" is hereby authorized to file for record in the office of the County Clerk of Williamson County, Texas, the map or plat of said attached tract, and the said County Clerk of Williamson County, Texas is hereby authorized to accept for filing and to record said map or plat of said tract.

2. In approving this plat by the Commissioners Court of Williamson County, Texas it is understood that the building of all streets, roads and all other public thoroughfares delineated and shown on this plat and all bridges and culverts necessary to be placed in such streets, roads or other public thoroughfares or in connection therewith shall be the responsibility of the owner or developer of the tract of land covered by this plat, in accordance with plans and specifications prescribed by the Commissioners Court of Williamson County, Texas, and said Commissioners Court assumes no responsibility or obligation to build or maintain any streets, roads or other public thoroughfares shown on this plat or of constructing or maintaining any culverts bridges, etc. in connection therewith.

ADOPTED AND APPROVED this the 9th. day of June 1969 A. D.

Sam V. Stone
SAM V. STONE COUNTY JUDGE

ATTEST:

I, Sam V. Stone, County Judge of Williamson County, Texas, do hereby certify that the above and foregoing resolution is a true and correct exemplification of the original resolution passed and adopted by the Commissioners Court of Williamson County, Texas, at the Regular meeting held at Georgetown, Texas on this the 9th. day of June 1969 A. D., at which time a quorum was present.

Sam V. Stone
SAM V. STONE COUNTY JUDGE

STATE OF TEXAS

COUNTY OF WILLIAMSON | BEFORE ME, the undersigned authority, a Notary Public in and for said County and State, on this day personally appeared, Sam V. Stone, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledges to me that he executed the same in the capacity of County Judge and Chairman of the Commissioners Court, and that he executed the same for the purposes and consideration expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 9th. day of June 1969. A. D.

Bonnie Marie NOTARY PUBLIC

Filed for record June 9, 1969, at 3:15 o'clock P. M.
Recorded June 10, 1969, at 10:45 o'clock A. M.

Dick Cervenko
Dick Cervenko,
County Clerk, Williamson
County, Texas

PROJECT / PERMIT #	
REVISION	
NO.	
DATE	
BY	
Jun 14, 2023	
TEP/ELS FIRM No. 17817 ELI ENGINEERING ELI ENGINEERING, PLLC. 700 THERESA COVE, CEDAR PARK, TX 78613 512-655-8605 eli@elieng.com	
BIG CHIEF STORAGE SITE PLAN IMPROVEMENTS FINAL PLAT (2 OF 2)	
DRAWING SCALE:	HORIZ = NTS
SURVEYED:	VERT = 1:1
FILE NAME:	
DATE:	
DRAWN:	GEJ
DESIGNED:	EEL
SHEET 4 OF 19	

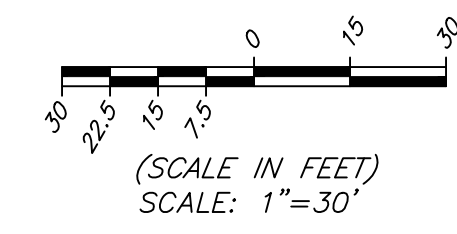
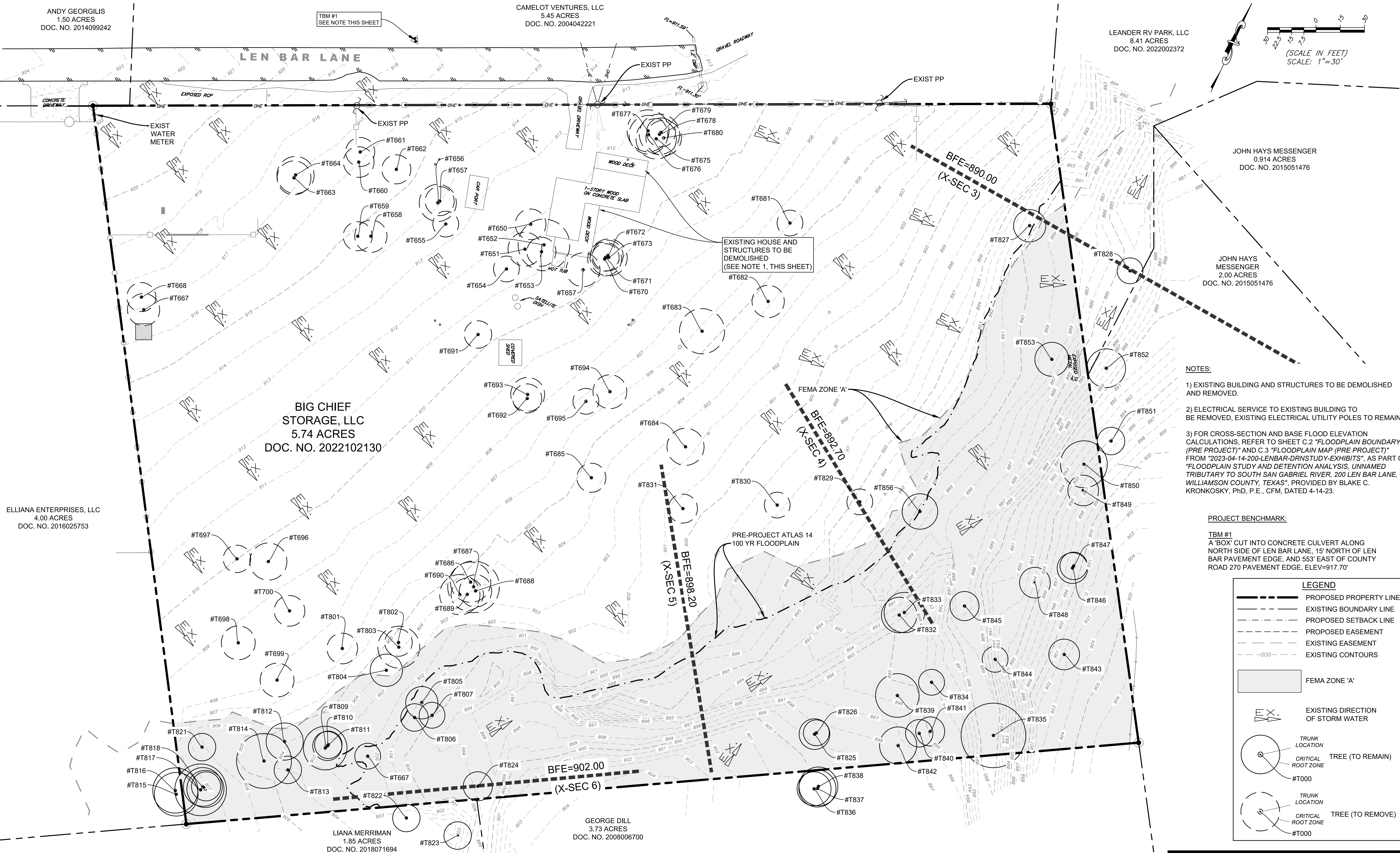
ANDY GEORGILOS
1.50 ACRES
DOC. NO. 2014099242

CAMELOT VENTURES, LLC
5.45 ACRES
DOC. NO. 2004042221

LEANDER RV PARK, LLC
8.41 ACRES
DOC. NO. 2022002372

JOHN HAYS MESSENGER
0.914 ACRES
DOC. NO. 2015051476

JOHN HAYS MESSENGER
2.00 ACRES
DOC. NO. 2015051476



BIG CHIEF STORAGE, LLC
5.74 ACRES
DOC. NO. 2022102130

ELLIANA ENTERPRISES, LLC
4.00 ACRES
DOC. NO. 2016025753

LIANA MERRIMAN
1.85 ACRES
DOC. NO. 2018071694

GEORGE DILL
3.73 ACRES
DOC. NO. 2008006700

- NOTES:**
- 1) EXISTING BUILDING AND STRUCTURES TO BE DEMOLISHED AND REMOVED.
 - 2) ELECTRICAL SERVICE TO EXISTING BUILDING TO BE REMOVED, EXISTING ELECTRICAL UTILITY POLES TO REMAIN.
 - 3) FOR CROSS-SECTION AND BASE FLOOD ELEVATION CALCULATIONS, REFER TO SHEET C.2 "FLOODPLAIN BOUNDARY CALCULATIONS" AND C.3 "FLOODPLAIN MAP (PRE PROJECT)" FROM "2023-04-14-200-LENBAR-DRN-STUDY-EXHIBITS", AS PART OF "FLOODPLAIN STUDY AND DETENTION ANALYSIS, UNNAMED TRIBUTARY TO SOUTH SAN GABRIEL RIVER, 200 LEN BAR LANE, WILLIAMSON COUNTY, TEXAS", PROVIDED BY BLAKE C. KRONKOSKY, PhD, P.E., CFM, DATED 4-14-23.

PROJECT BENCHMARK:

TBM #1
A 'BOX' CUT INTO CONCRETE CULVERT ALONG NORTH SIDE OF LEN BAR LANE, 15' NORTH OF LEN BAR PAVEMENT EDGE, AND 553' EAST OF COUNTY ROAD 270 PAVEMENT EDGE, ELEV=917.70'

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING BOUNDARY LINE
- PROPOSED SETBACK LINE
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING CONTOURS
- FEMA ZONE 'A'
- EXISTING DIRECTION OF STORM WATER
- TRUNK LOCATION
- CRITICAL ROOT ZONE
- #T000 TREE (TO REMAIN)
- TRUNK LOCATION
- CRITICAL ROOT ZONE
- #T000 TREE (TO REMOVE)

TREE LIST (R) DENOTES TREE REMOVAL

TAG #	SIZE(IN)	SPECIES	TAG #	SIZE(IN)	SPECIES	TAG #	SIZE(IN)	SPECIES	TAG #	SIZE(IN)	SPECIES	TAG #	SIZE(IN)	SPECIES
650 (R)	9.5	Live Oak	668 (R)	9	Live Oak	686 (R)	12.5	Live Oak	804	8.5	Red Oak	822	8.5	Cedar Elm
651 (R)	10.5	Cedar Elm	669 (R)	10.5	Live Oak	687 (R)	16	Live Oak	805	10	Red Oak	823	8.5	Cedar Elm
652 (R)	15	Live Oak	670 (R)	10.5	Red Oak	688 (R)	10	Live Oak	806	8.5	Red Oak	824	9	Cedar Elm
653 (R)	9	Live Oak	671 (R)	8.5	Red Oak	689 (R)	10	Live Oak	807	8	Red Oak	825	9.5	Red Oak
654 (R)	8	Live Oak	672 (R)	9.5	Red Oak	690 (R)	12.5	Red Oak	808 (R)	8	Red Oak	826	8	Red Oak
655 (R)	8	Live Oak	673 (R)	11.5	Red Oak	691 (R)	8.5	Live Oak	809	13.5	Cedar Elm	827	10	Shin Oak
656 (R)	11.5	Live Oak	674 (R)	9	Tree Not Found	692 (R)	9	Live Oak	810	9	Cedar Elm	828	9	Cedar Elm
657 (R)	9	Live Oak	675 (R)	12.5	Live Oak	693 (R)	10.5	Live Oak	811	8.5	Cedar Elm	829 (R)	8	Shin Oak
658 (R)	10	Live Oak	676 (R)	12	Live Oak	694 (R)	10.5	Red Oak	812	11.5	Cedar Elm	830 (R)	8	Shin Oak
659 (R)	9	Live Oak	677 (R)	13	Live Oak	695 (R)	8	Red Oak	813	8.5	Red Oak	831 (R)	9	Red Oak
660 (R)	9.5	Live Oak	678 (R)	12.5	Live Oak	696 (R)	11.5	Live Oak	814	11	Red Oak	832	11	Red Oak
661 (R)	9	Live Oak	679 (R)	9	Live Oak	697 (R)	8.5	Live Oak	815	17	Red Oak	833	12.5	Red Oak
662 (R)	9	Live Oak	680 (R)	11	Live Oak	698 (R)	10.5	Cedar Elm	816	14	Red Oak	834	8	Red Oak
663 (R)	10.5	Live Oak	681 (R)	8	Red Oak	699 (R)	10.5	Cedar Elm	817	16	Red Oak	835	20	Black Willow
664 (R)	11.5	Live Oak	682 (R)	10	Live Oak	700 (R)	9.5	Red Oak	818	12	Red Oak	836	10.5	Red Oak
665 (R)		Tree Not Found	683 (R)	14	Cedar Elm	801	9.5	Red Oak	819 (R)	11.5	Red Oak	837	11.5	Red Oak
666 (R)		Tree Not Found	684 (R)	11.5	Live Oak	802	8.5	Red Oak	820 (R)	9	Red Oak	838	12	Red Oak
667 (R)	10	Live Oak	685 (R)	9	Red Oak	803	13	Red Oak	821	8.5	Cedar Elm	839	13.5	Red Oak

PROJECT / PERMIT # : _____

REVISION NO. DATE BY

Jun 14, 2023

GARY ELI JONES
79198
REGISTERED PROFESSIONAL ENGINEER

ELLI ENGINEERING, PLLC
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8695

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN

DRAWING SCALE: _____ VERT = _____

SURVEYED: _____ FILE NAME: _____

DATE: _____ DRAWN: GEJ DESIGNED: EEI

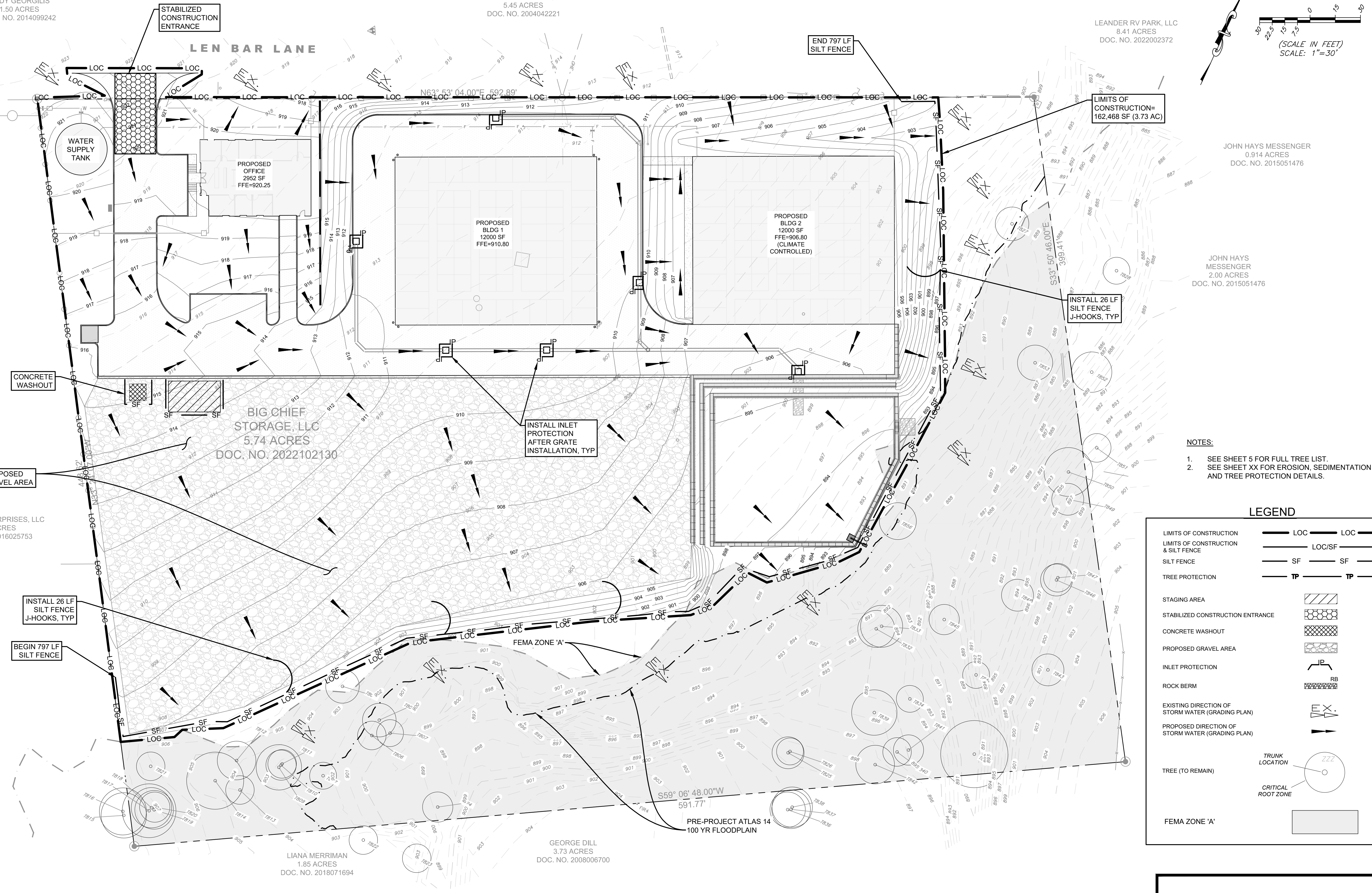
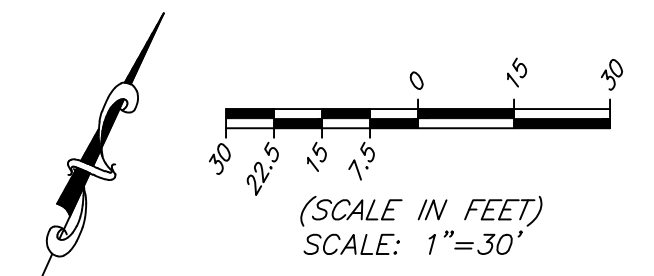
SHEET 5 OF 19

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP

ANDY GEORGILOS
1.50 ACRES
DOC. NO. 2014099242

CAMELOT VENTURES, LLC
5.45 ACRES
DOC. NO. 2004042221

LEANDER RV PARK, LLC
8.41 ACRES
DOC. NO. 2022002372



LIMITS OF CONSTRUCTION= 162,468 SF (3.73 AC)

PROPOSED OFFICE
2952 SF
FFE=920.25

PROPOSED BLDG 1
12000 SF
FFE=910.80

PROPOSED BLDG 2
12000 SF
FFE=906.80
(CLIMATE CONTROLLED)

BIG CHIEF STORAGE, LLC
5.74 ACRES
DOC. NO. 2022102130

ELLIANA ENTERPRISES, LLC
4.00 ACRES
DOC. NO. 2016025753

LIANA MERRIMAN
1.85 ACRES
DOC. NO. 2018071694

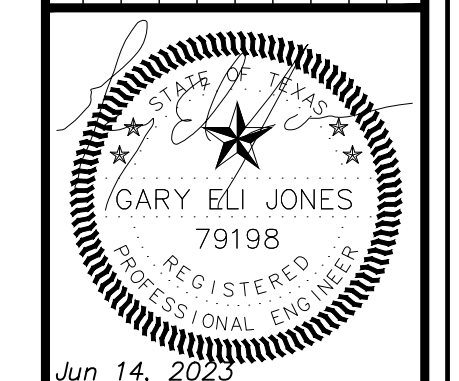
GEORGE DILL
3.73 ACRES
DOC. NO. 2008006700

- NOTES:**
- SEE SHEET 5 FOR FULL TREE LIST.
 - SEE SHEET XX FOR EROSION, SEDIMENTATION AND TREE PROTECTION DETAILS.

LEGEND

LIMITS OF CONSTRUCTION	LOC	LOC
LIMITS OF CONSTRUCTION & SILT FENCE	LOC/SF	LOC/SF
SILT FENCE	SF	SF
TREE PROTECTION	TP	TP
STAGING AREA	[Hatched Pattern]	
STABILIZED CONSTRUCTION ENTRANCE	[Grid Pattern]	
CONCRETE WASHOUT	[Cross-hatch Pattern]	
PROPOSED GRAVEL AREA	[Dotted Pattern]	
INLET PROTECTION	[IP Symbol]	
ROCK BERM	[RB Symbol]	
EXISTING DIRECTION OF STORM WATER (GRADING PLAN)	[Arrow]	
PROPOSED DIRECTION OF STORM WATER (GRADING PLAN)	[Arrow]	
TREE (TO REMAIN)	[Tree Symbol]	
	TRUNK LOCATION	[ZZZ]
	CRITICAL ROOT ZONE	[Circle]
FEMA ZONE 'A'	[Shaded Area]	

PROJECT / PERMIT #	
NO.	
DATE	
REVISION	



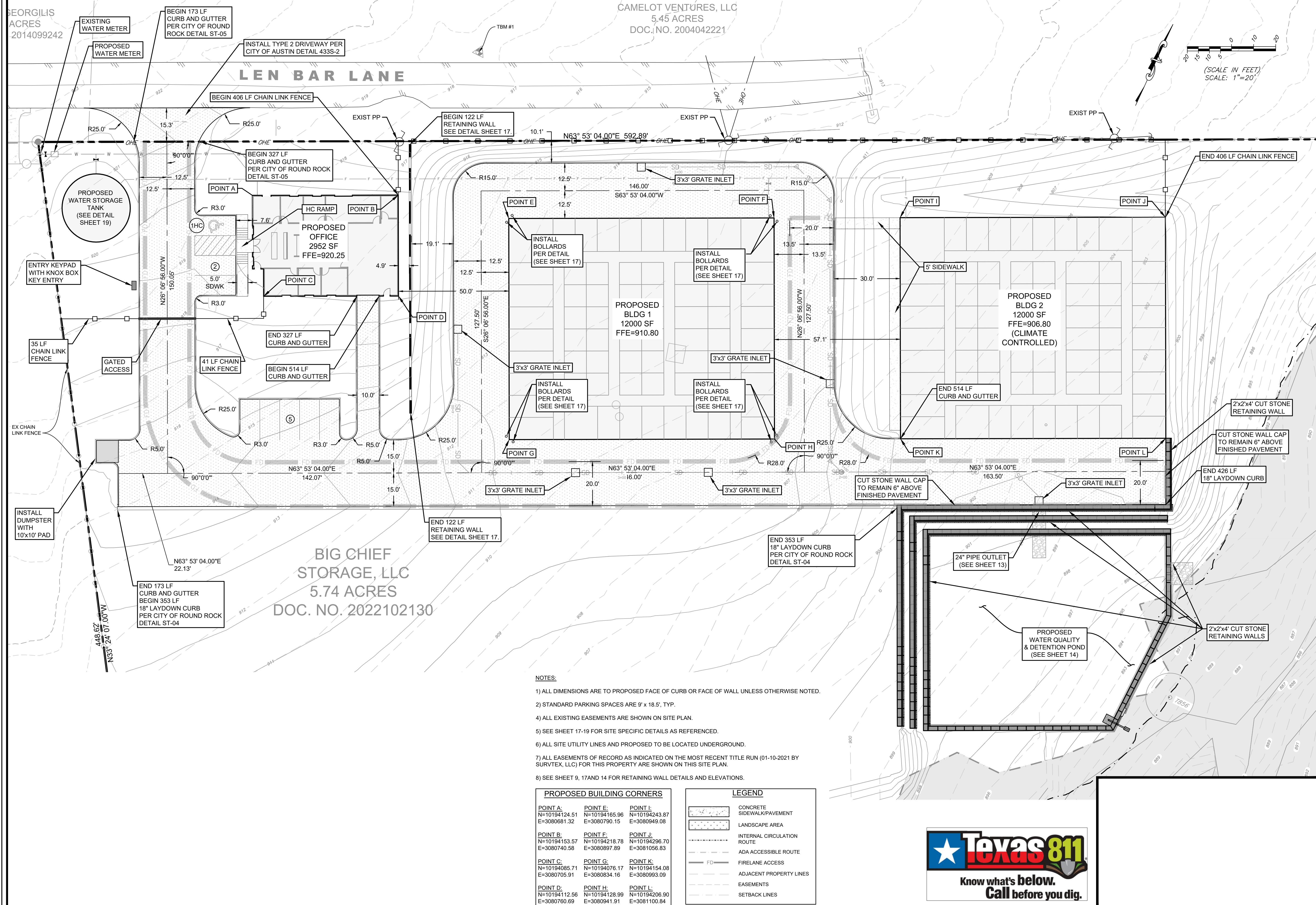
ELI ENGINEERING
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8695
gelijones@gmail.com
TBPELS FIRM No. 17877

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
EROSION SEDIMENTATION CONTROL AND TREE PROTECTION PLAN

DRAWING SCALE:	HORIZ. =	VERT. =
SURVEYED:	FILE NAME:	
DATE:	DRAWN: GEJ	DESIGNED: EEI



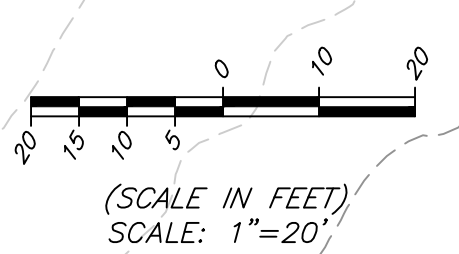
THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP



GEORGI LIS
ACRES
2014099242

CAMELOT VENTURES, LLC
5.45 ACRES
DOC. NO. 2004042221

BIG CHIEF
STORAGE, LLC
5.74 ACRES
DOC. NO. 2022102130



- NOTES:**
- 1) ALL DIMENSIONS ARE TO PROPOSED FACE OF CURB OR FACE OF WALL UNLESS OTHERWISE NOTED.
 - 2) STANDARD PARKING SPACES ARE 9' x 18.5', TYP.
 - 4) ALL EXISTING EASEMENTS ARE SHOWN ON SITE PLAN.
 - 5) SEE SHEET 17-19 FOR SITE SPECIFIC DETAILS AS REFERENCED.
 - 6) ALL SITE UTILITY LINES AND PROPOSED TO BE LOCATED UNDERGROUND.
 - 7) ALL EASEMENTS OF RECORD AS INDICATED ON THE MOST RECENT TITLE RUN (01-10-2021 BY SURVTX, LLC) FOR THIS PROPERTY ARE SHOWN ON THIS SITE PLAN.
 - 8) SEE SHEET 9, 17 AND 14 FOR RETAINING WALL DETAILS AND ELEVATIONS.

PROPOSED BUILDING CORNERS		
POINT A: N=10194124.51 E=3080681.32	POINT E: N=10194165.96 E=3080790.15	POINT I: N=10194243.87 E=3080949.08
POINT B: N=10194153.57 E=3080740.58	POINT F: N=10194218.78 E=3080897.89	POINT J: N=10194296.70 E=3081056.83
POINT C: N=10194085.71 E=3080705.91	POINT G: N=10194076.17 E=3080834.16	POINT K: N=10194154.08 E=3080993.09
POINT D: N=10194112.56 E=3080760.69	POINT H: N=10194128.99 E=3080941.91	POINT L: N=10194206.90 E=3081100.84

LEGEND	
	CONCRETE SIDEWALK/PAVEMENT
	LANDSCAPE AREA
	INTERNAL CIRCULATION ROUTE
	ADA ACCESSIBLE ROUTE
	FIRELANE ACCESS
	ADJACENT PROPERTY LINES
	EASEMENTS
	SETBACK LINES

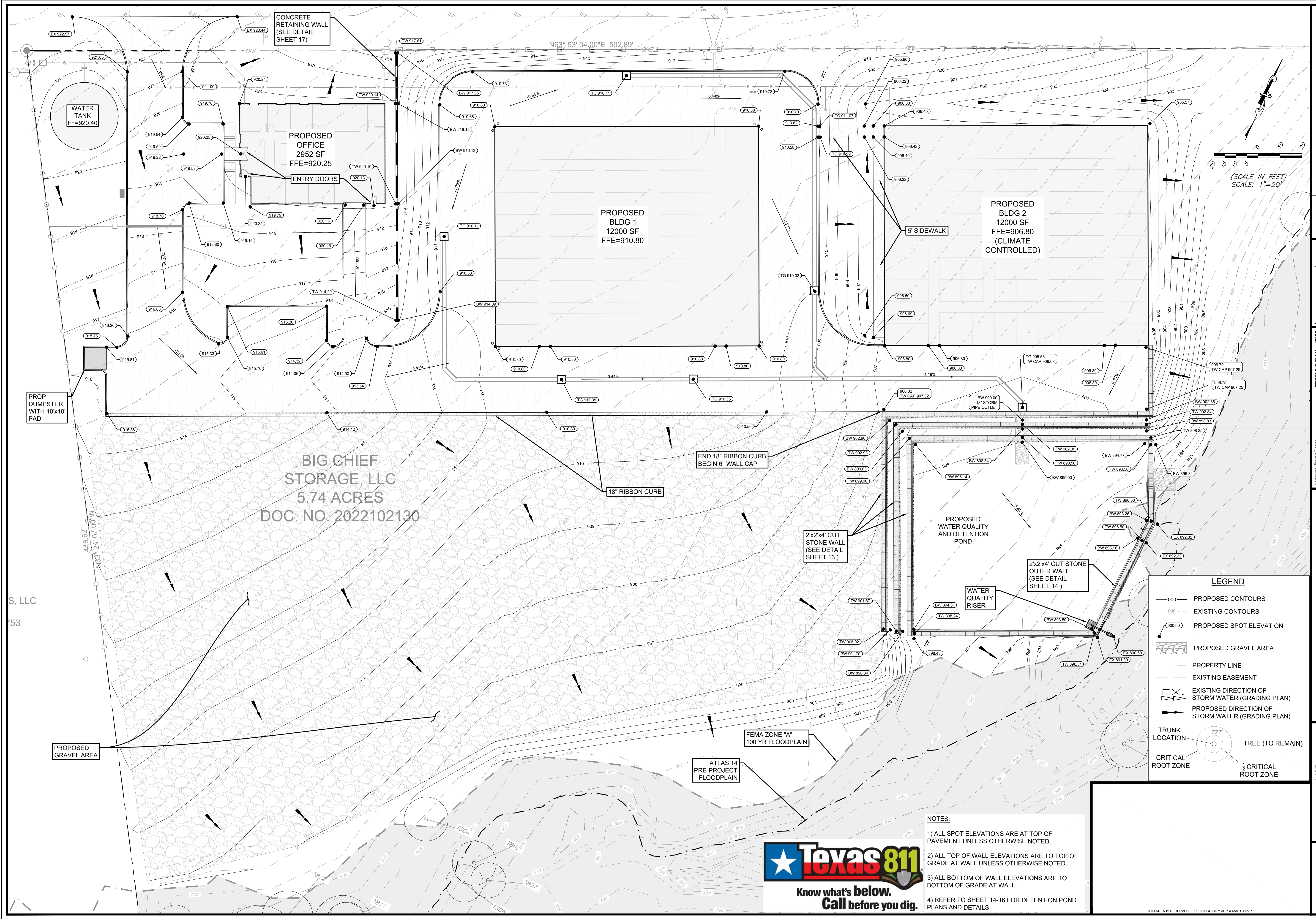


<p>PROJECT / PERMIT # : _____</p> <p>NO. _____</p> <p>DATE _____</p> <p>REVISION _____</p>	<p style="text-align: center;">GARY ELI JONES 79198 REGISTERED PROFESSIONAL ENGINEER</p> <p style="text-align: center;">Jun 14, 2023</p> <p style="text-align: center;">ELI ENGINEERING</p> <p style="text-align: center;">ELI ENGINEERING, PLLC. 700 THERESA COVE, CEDAR PARK, TX 78613 512-656-8695</p>
<p>WILLIAMSON COUNTY, TEXAS</p> <p>BIG CHIEF STORAGE</p> <p>SITE PLAN IMPROVEMENTS</p> <p>SITE AND DIMENSIONAL CONTROL PLAN</p>	
<p>DRAWING SCALE: _____</p> <p>HORIZ. = _____</p> <p>VERT. = _____</p> <p>SURVEYED: _____</p> <p>FILE NAME: _____</p> <p>DATE: _____</p> <p>DRAWN: GEJ</p> <p>DESIGNED: EEI</p>	<p>SHEET</p> <p>7</p> <p>OF</p> <p>19</p>

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PROJECT No. / PERMIT # : _____



(SCALE IN FEET)
SCALE: 1"=20'

LEGEND

	PROPOSED CONTOURS
	EXISTING CONTOURS
	PROPOSED SPOT ELEVATION
	PROPOSED GRAVEL AREA
	PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DIRECTION OF STORM WATER (GRADING PLAN)
	PROPOSED DIRECTION OF STORM WATER (GRADING PLAN)
	TRUNK LOCATION
	TREE (TO REMAIN)
	CRITICAL ROOT ZONE

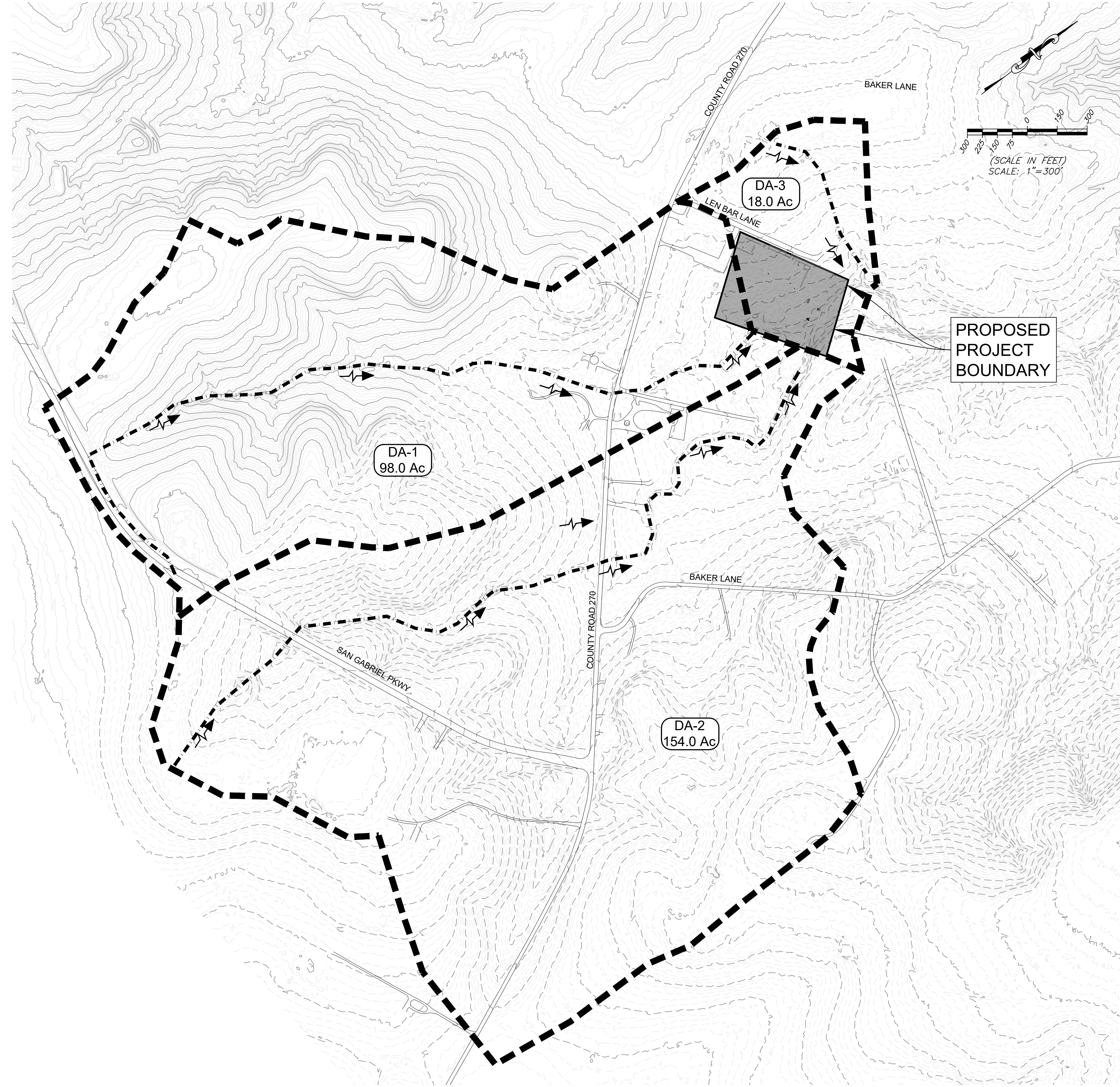
- NOTES:**
- 1) ALL SPOT ELEVATIONS ARE AT TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
 - 2) ALL TOP OF WALL ELEVATIONS ARE TO TOP OF GRADE AT WALL UNLESS OTHERWISE NOTED.
 - 3) ALL BOTTOM OF WALL ELEVATIONS ARE TO BOTTOM OF GRADE AT WALL.
 - 4) REFER TO SHEET 14-16 FOR DETENTION POND PLANS AND DETAILS.



PROJECT / PERMIT #		NO.		DATE	
REVISION		NO.		DATE	
Jun 14, 2023 TPBELS FIRM No. 17877 ELI ENGINEERING ELI ENGINEERING, PLLC. 700 THERESA COVE, CEDAR PARK, TX 78613 512-656-8695 gelijones@gmail.com					
BIG CHIEF STORAGE SITE PLAN IMPROVEMENTS			SITE GRADING PLAN		
DRAWING SCALE:	HORIZ. =	VERT. =	SHEET		
SURVEYED:	FILE NAME:	DATE:	9		
DRAWN:	GEJ	EEL	OF		
DESIGNED:			19		

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NOTES:
 1. REFER TO "FLOODPLAIN STUDY AND DETENTION ANALYSIS, UNNAMED TRIBUTARY TO SOUTH SAN GABRIEL RIVER, 200 LEN BAR LANE, WILLIAMSON COUNTY, TEXAS" PREPARED BY BLAKE C. KRONKOSKY, Ph.D., P.E., CFM, DATED 04-14-23.

TABLE 1. DA SIZES

ID	AC	SQM
1	98	0.153
2	154	0.241
3	18	0.028

TABLE 2. TIME OF CONCENTRATION CALCULATIONS

AREA	Sheet Flow (min)				Shallow Concentrated Flow (min)				Open Channel Flow (min)				Tc (min)	Lag (0.6Tc) (min)
	L (ft)	s (ft)	n	P2 (ft)	L (ft)	s (ft)	SURFACE	time (min)	D (ft)	V(ft/s)	time (min)			
1	100	0.030	0.06	3.94	4	-	-	0	4220	5	14	18	11	
2	100	0.030	0.13	3.94	7	650	UNPAVED	4	3600	5	12	23	14	
3	100	0.020	0.13	3.94	8	550	UNPAVED	3	265	5	1	12	7	

TABLE 1. LANDUSE CATEGORIES

CATEGORY	DESCRIPTION	CN	
		UNADJUSTED	ADJUSTED
1	Fully developed urban areas (vegetation established)-Poor condition (grass cover 50%)	89	74
2	Fully developed urban areas (vegetation established)-Fair condition (grass cover 50% to 75%)	84	69
3	Fully developed urban areas (vegetation established)-Paved, open ditches (including right of way)	93	78
4	Agricultural lands-Brush-brush-weed-grass mixture with brush the major element-Condition: Good	73	65

TABLE 2. WT CN CALCULATIONS

ID	CN				WT CN	ADJ CN				
	CAT 1	AREA (SQFT)	CAT 2	AREA (SQFT)						
1	89	1,965,759	84	882,272	93	0	73	1,430,564	83	68
2	89	217,077	84	2,937,108	93	462,182	73	1,716,864	81	66
3	89	0	84	485,539	93	0	73	327,211	79	65

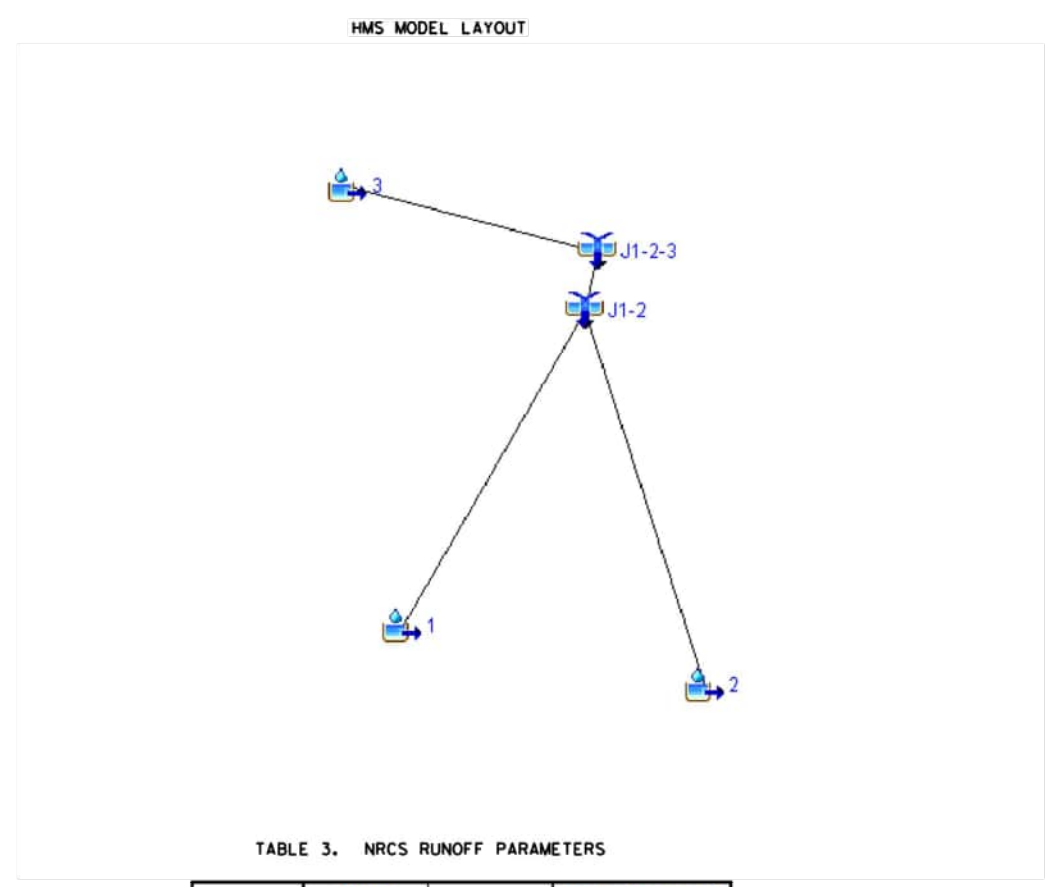


TABLE 3. NRCS RUNOFF PARAMETERS

ID	AREA SQM	CN	LAG (0.6XTc) (MIN)
1	0.153	68	11
2	0.241	66	14
3	0.028	65	7

TABLE 2. HEC-HMS RESULTS (100-YR ATLAS 14)

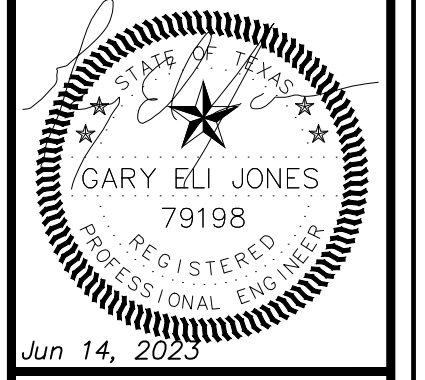
Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)	HEC-RAS FLOW LOCATION
2	0.241	853	01Jan2023, 12:16	6.73	REACH 2, XS 5
1	0.153	629	01Jan2023, 12:13	7.02	REACH 1, XS 7
J1-2	0.394	1462	01Jan2023, 12:14	6.84	REACH 3, XS 3
3	0.028	130	01Jan2023, 12:08	6.60	-
J1-2-3	0.422	1560	01Jan2023, 12:14	6.83	REACH 3, XS 0

NOTES:
 1. HEC-HMS VER 3.5 USED FOR CALCULATING NRCS PEAK FLOWS.

LEGEND

- PROPOSED DRAINAGE AREA BOUNDARY
- - - - EXISTING Tc FLOW PATH
- ZZ 0.0 Ac DRAINAGE AREA LABEL
- ← EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION

NO.	DATE	REVISION



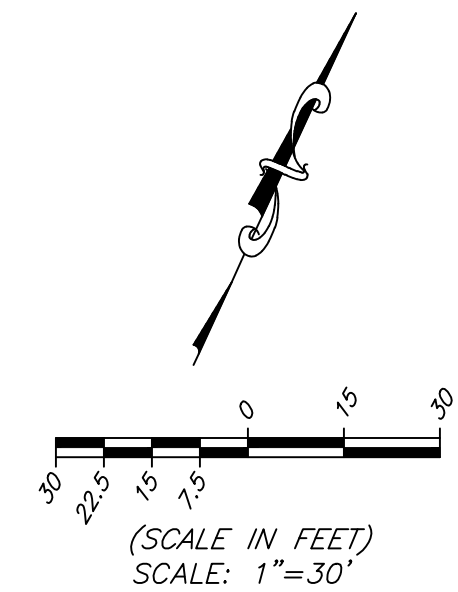
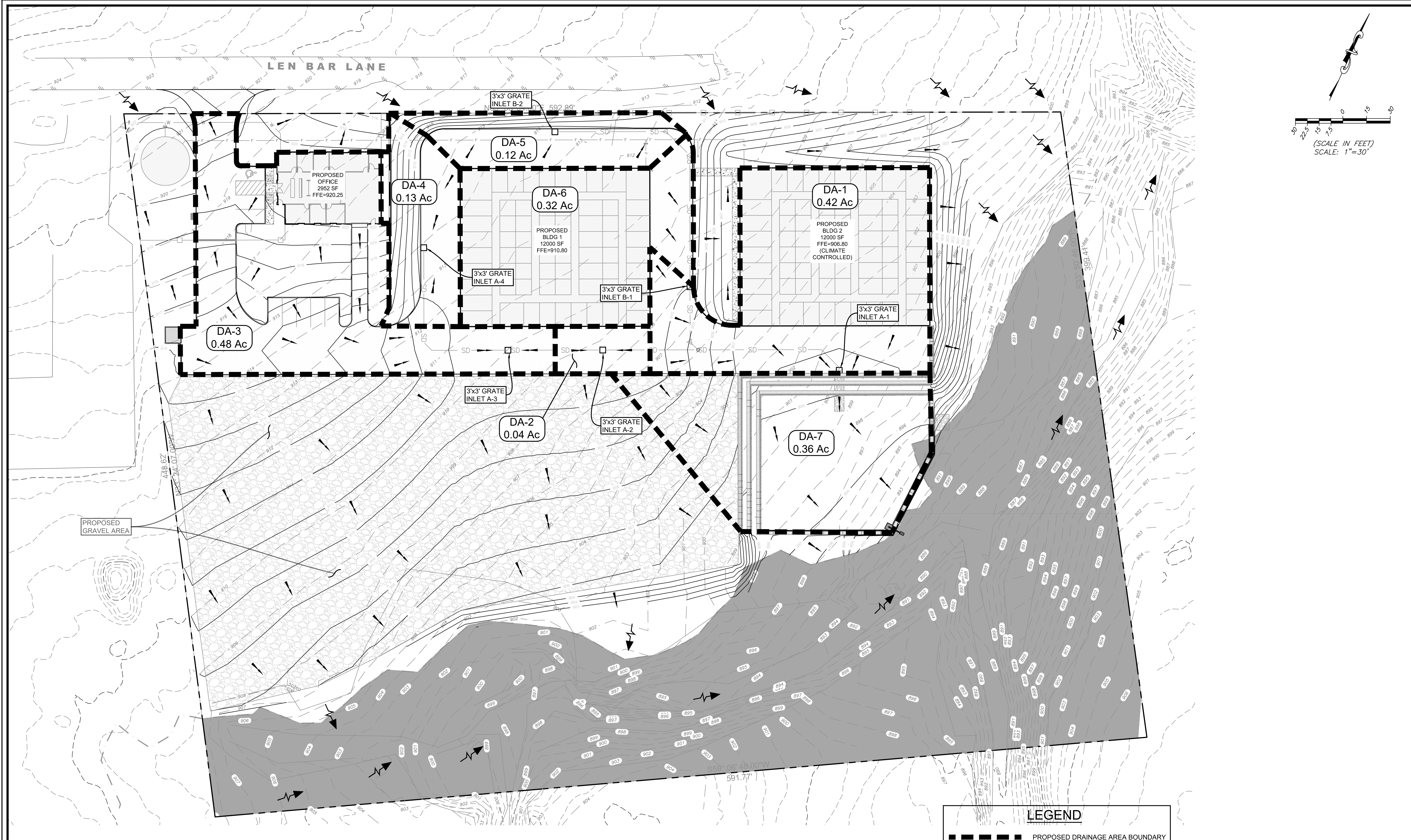
Jun 14, 2023
 TBPELS FIRM No. 17877
ELI ENGINEERING
 ELI ENGINEERING, PLLC.
 700 THERESA COVE, CEDAR PARK, TX 78613
 512-656-8695

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
 SITE PLAN IMPROVEMENTS
 EXISTING FLOODPLAIN DRAINAGE AREA MAP

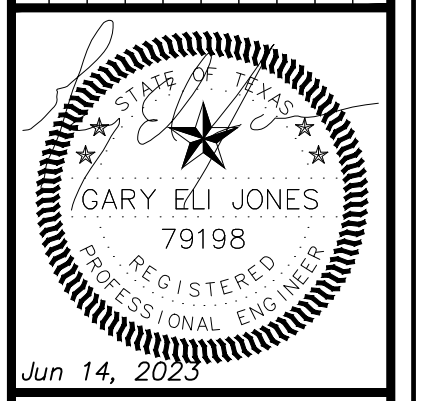
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SURVEYED:	FILE NAME:	DATE:
DRAWN:	GEJ	EEL
DESIGNED:		

SHEET
10
 OF
19

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REVISION	
BY	



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ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8695

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
PROPOSED DRAINAGE AREA MAP

DRAWING SCALE:	HORIZ. #	VERT. #
SURVEYED:		
FILE NAME:		
DATE:		
DRAWN:	GEJ	
DESIGNED:	EEL	

SHEET
11
OF
19

- NOTES:**
- REFER TO SHEET 12 FOR DRAINAGE AND INLET CALCULATIONS.
 - REFER TO SHEET 14-16 FOR DETENTION POND PLAN, CALCULATIONS AND DETAILS.
 - REFER TO SHEET 9 FOR GRADING PLAN.
 - REFER TO SHEET 13 FOR STORM SEWER PLAN AND PROFILE.

LEGEND

- PROPOSED DRAINAGE AREA BOUNDARY
- EXISTING Tc FLOW PATH
- EXISTING FEMA ZONE 'A'
- DRAINAGE AREA LABEL
- EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION
- PROPOSED GRAVEL AREA

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP

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STAGE / STORAGE			
Contour Elevation	Contour Area (sq. ft)	Incremental Volume Avg. End (cu. ft)	Cumulative Volume Avg. End (cu. ft)
893.15	0	0	0
893.5	400.14	70.02	70.02
894	2,233.80	658.48	728.50
894.5	5,297.36	1882.8	2611.30
894.85			4960.00
895	8,124.00	3355.34	5966.64
895.5	8,561.05	4171.26	10137.90
896	8,640.00	4300.47	14438.37
896.5	9,244.37	4471.3	18909.67

TOTAL AREA TO	SF	AC
POND	81,770	1.88
TOTAL I.C.	57,713	1.32
% IC TO POND		71%

BIG CHIEF Rational Method Runoff Calculations									
AREA	ACREAGE (ac.)	TIME OF CONCENTRATION (min.)	RAINFALL INTENSITY		RUNOFF COEFFICIENT		Q 2 (cfs)	Q 10 (cfs)	
			2 YR (in/hr)	10 YR (in/hr)	2 YR	10 YR			
			25 YR (in/hr)	100 YR (in/hr)	25 YR	100 YR			
AREA									
DA-01	0.42	10.00	4.59	7.18	0.75	0.83	1.46	2.53	
DA-02	0.04	10.00	4.59	7.18	0.75	0.83	0.14	0.25	
DA-03	0.31	10.00	4.59	7.18	0.68	0.73	0.96	1.62	
DA-04	0.05	10.00	4.59	7.18	0.18	0.26	0.04	0.09	
DA-05	0.28	10.00	4.59	7.18	0.18	0.26	0.23	0.52	
DA-06	0.32	10.00	4.59	7.18	0.57	0.83	0.84	1.92	
AREA									
DA-01	0.42	10.00	8.71	11.15	0.88	0.97	3.25	4.59	
DA-02	0.04	10.00	8.71	11.15	0.88	0.97	0.32	0.45	
DA-03	0.48	10.00	8.71	11.15	0.78	0.87	3.25	4.62	
DA-04	0.13	10.00	8.71	11.15	0.28	0.31	0.31	0.45	
DA-05	0.12	10.00	8.71	11.15	0.28	0.31	0.30	0.43	
DA-06	0.32	10.00	8.71	11.15	0.88	0.97	2.47	3.49	

BIG CHIEF STORM DRAIN - RUNOFF COEFFICIENTS											
Rational Method	PROPOSED	Area (SF)	Area (Ac)	C2	C10	C25	C100	COMPOSITE			
								C2	C10	C25	C100
DA-01	Grass/Pasture	0	0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	6,493	0.15	0.75	0.83	0.88	0.97	0.26	0.29	0.31	0.34
	Roof	12,000	0.28	0.75	0.83	0.88	0.97	0.49	0.54	0.57	0.63
		18,493	0.42					0.75	0.83	0.88	0.97
DA-02	Grass/Pasture		0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	1,799	0.04	0.75	0.83	0.88	0.97	0.75	0.83	0.88	0.97
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		1,799	0.04					0.75	0.83	0.88	0.97
DA-03	Grass/Pasture	4,479	0.10	0.33	0.38	0.42	0.49	0.08	0.08	0.09	0.11
	Pavement	13,407	0.31	0.75	0.83	0.88	0.97	0.48	0.53	0.57	0.62
	Roof	2,952	0.07	0.75	0.83	0.88	0.97	0.12	0.12	0.12	0.14
		20,838	0.48					0.68	0.73	0.78	0.87
DA-04	Grass/Pasture	2,324	0.05	0.33	0.38	0.42	0.49	0.04	0.06	0.07	0.08
	Pavement	3,325	0.08	0.75	0.83	0.88	0.97	0.13	0.20	0.21	0.23
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		5,649	0.13					0.18	0.26	0.28	0.31
DA-05	Grass/Pasture	1,665	0.04	0.33	0.38	0.42	0.49	0.03	0.05	0.05	0.06
	Pavement	3,690	0.08	0.75	0.83	0.88	0.97	0.15	0.22	0.23	0.25
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		5,355	0.12					0.18	0.26	0.28	0.31
DA-06	Grass/Pasture		0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	2,047	0.05	0.75	0.83	0.88	0.97	0.08	0.12	0.13	0.14
	Roof	12,000	0.28	0.75	0.83	0.88	0.97	0.49	0.71	0.75	0.83
		14,047	0.32					0.57	0.83	0.88	0.97
DA-07	Grass/Pasture	15,589	0.36	0.33	0.38	0.42	0.49	0.28	0.42	0.47	0.54
	Pavement	0	0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
	Roof	0	0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		15,589	0.36					0.28	0.42	0.47	0.54

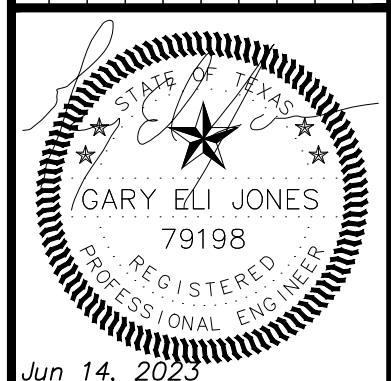
Rainfall Intensity-Duration-Frequency Coefficients for Texas

Based on "National Oceanic and Atmospheric Administration's (NOAA) Atlas 14 Precipitation-Frequency Atlas of the United States, Volume 11 Version 2.0: Texas" (Perica et al. 2018)

Parameter Selection:
 1. Select Units: English
 2. Select Methodology: Annual Maximum Series (AMS)
 3. Select County: WILLIAMSON
 4. Select County Zone: Brushy Creek
 5. Select Time of Concentration (tc): 10 Minute

Coefficient	Design Annual Exceedance Probability (Design Annual Recurrence Interval)						
	50% (2-year)	20% (5-year)	10% (10-year)	4% (25-year)	2% (50-year)	1% (100-year)	0.2% (500-year)
e	0.8199	0.8067	0.7995	0.7919	0.7871	0.7824	0.7714
b	58.0957	74.5024	87.5700	105.8665	120.5981	136.6644	180.1476
d (min)	12.0992	12.4782	12.8449	13.4283	13.9095	14.6225	17.3300
Intensity (inches/hour)	4.59	6.05	7.18	8.71	9.91	11.15	14.04

Note: Williamson County has 4 rainfall zones. Williamson County uses customized IDF zones derived by the county. Since Williamson County county has more than 1 rainfall zone, consider using the accompanying Google Earth file to accurately locate a project.



Jun 14, 2023

ELI ENGINEERING, PLLC
 700 THERESA COVE, CEDAR PARK, TX 78613
 512-656-8095

WILLIAMSON COUNTY, TEXAS

BIG CHIEF STORAGE

SITE PLAN IMPROVEMENTS

PROPOSED DRAINAGE CALCULATIONS

HORIZ. =
 VERT. =

DRAWING SCALE:
 SURVEYED:
 FILE NAME:
 DATE:
 DRAWN: GEJ
 DESIGNED: EEI

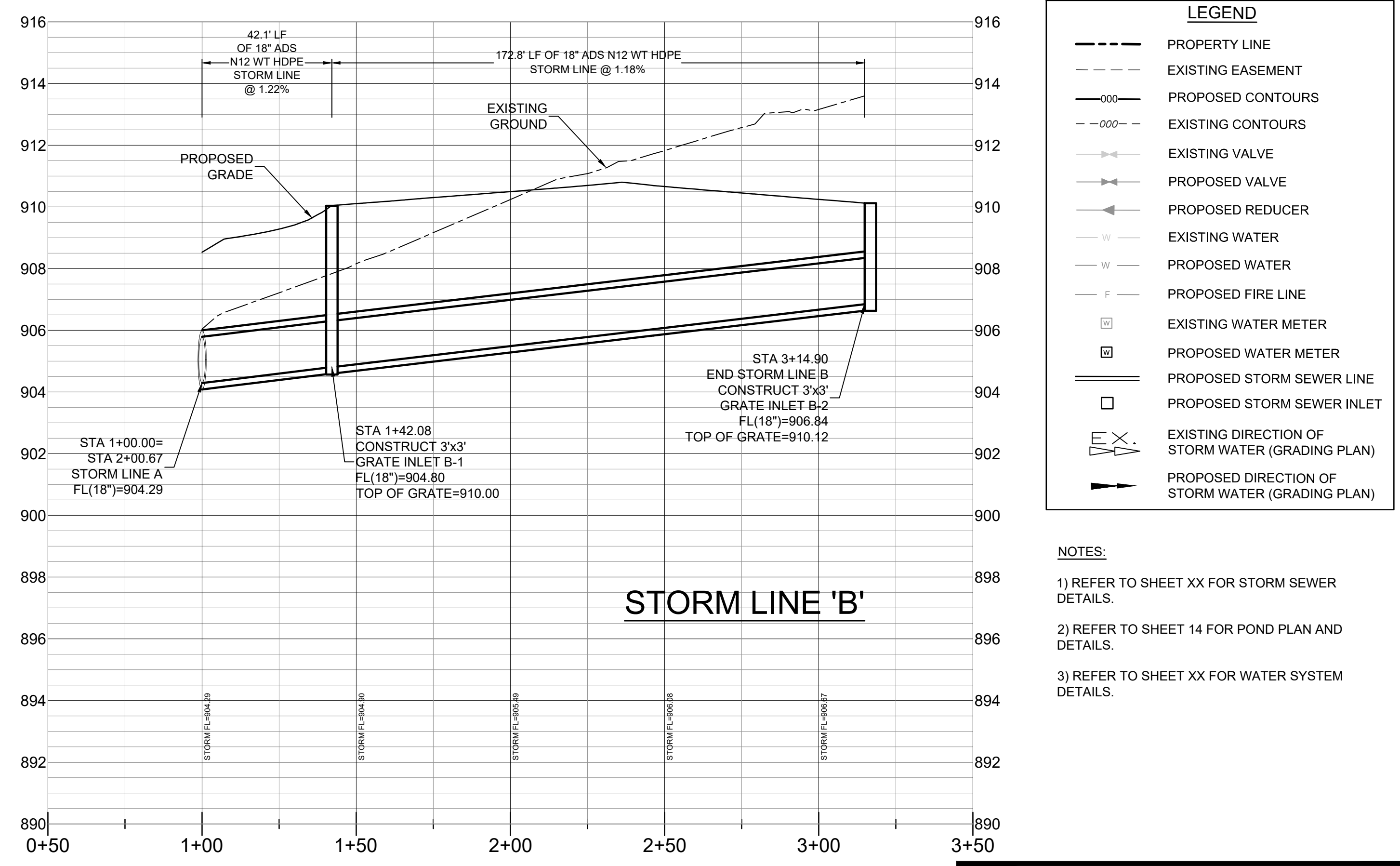
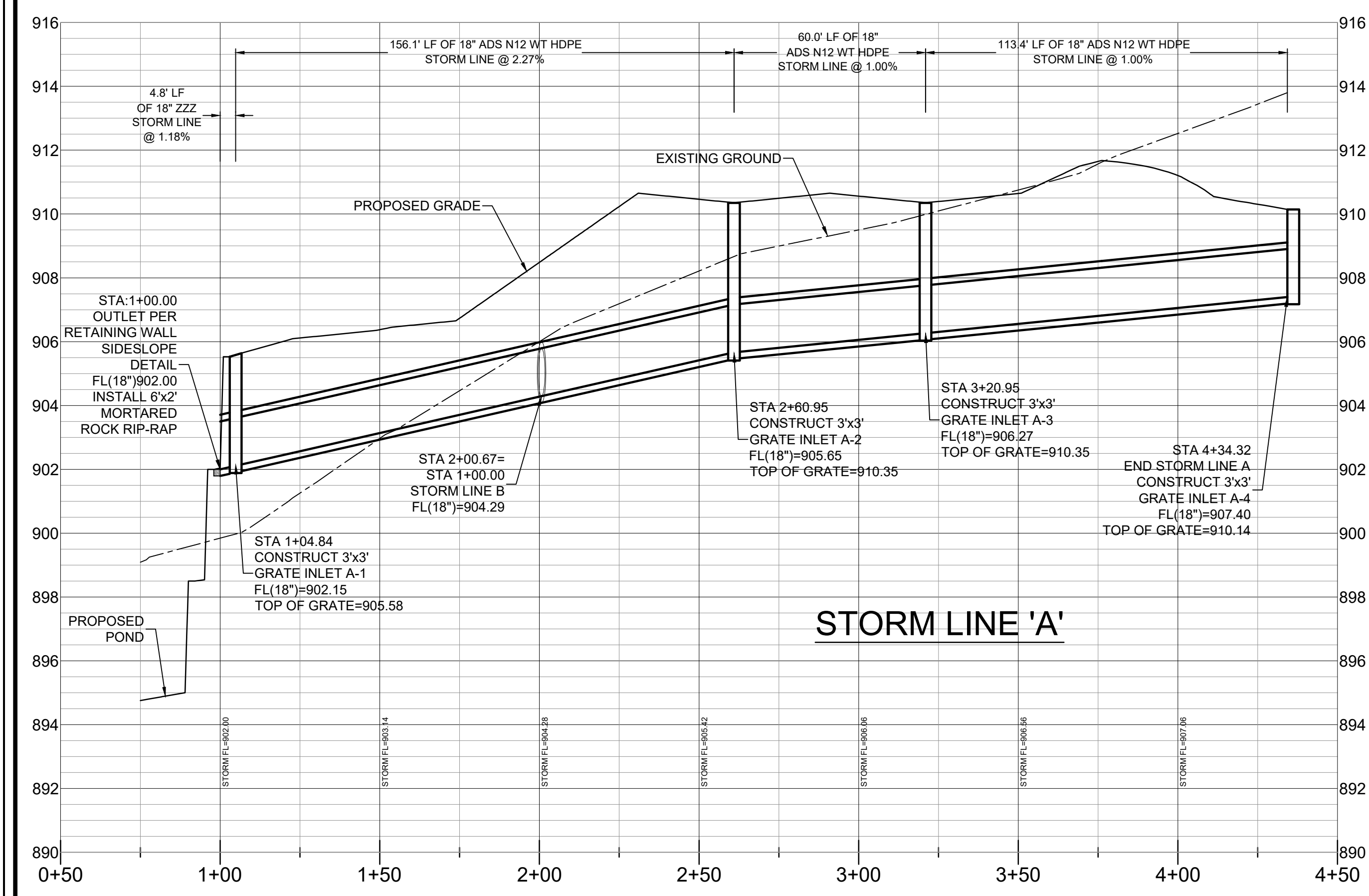
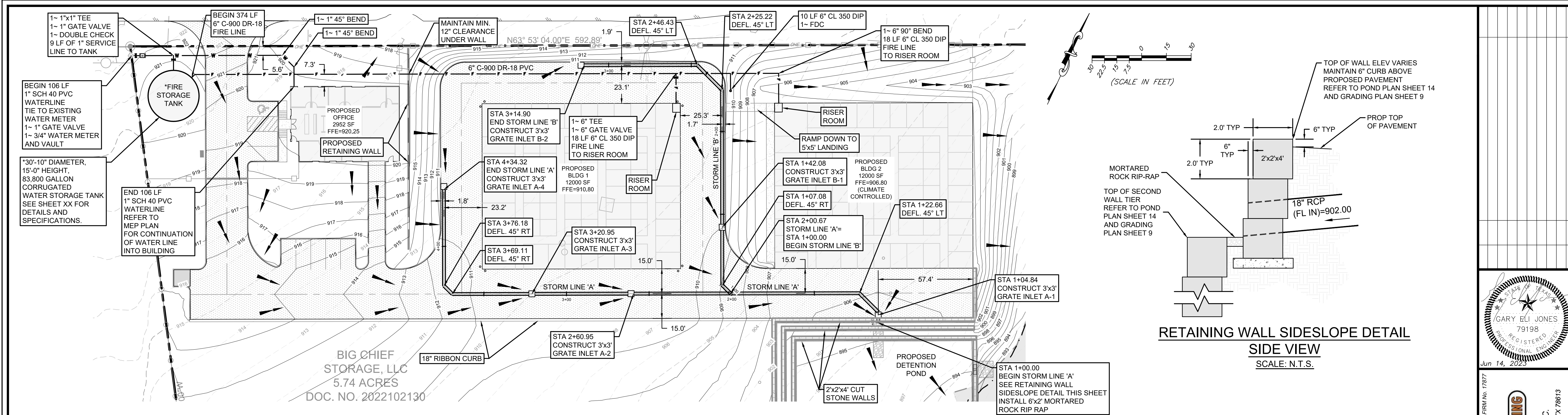
SHEET

12

OF

19

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP



LEGEND

- PROPERTY LINE
- - - EXISTING EASEMENT
- EXISTING CONTOURS
- - - EXISTING CONTOURS
- EXISTING VALVE
- PROPOSED VALVE
- PROPOSED REDUCER
- EXISTING WATER
- PROPOSED WATER
- PROPOSED FIRE LINE
- EXISTING WATER METER
- PROPOSED WATER METER
- PROPOSED STORM SEWER LINE
- PROPOSED STORM SEWER INLET
- EXISTING DIRECTION OF STORM WATER (GRADING PLAN)
- PROPOSED DIRECTION OF STORM WATER (GRADING PLAN)

NOTES:

- REFER TO SHEET XX FOR STORM SEWER DETAILS.
- REFER TO SHEET 14 FOR POND PLAN AND DETAILS.
- REFER TO SHEET XX FOR WATER SYSTEM DETAILS.

NO.	DATE	REVISION

GARY ELI JONES
79198
REGISTERED PROFESSIONAL ENGINEER

Jun 14, 2023

TPELS FIRM No. 17877

ELI ENGINEERING

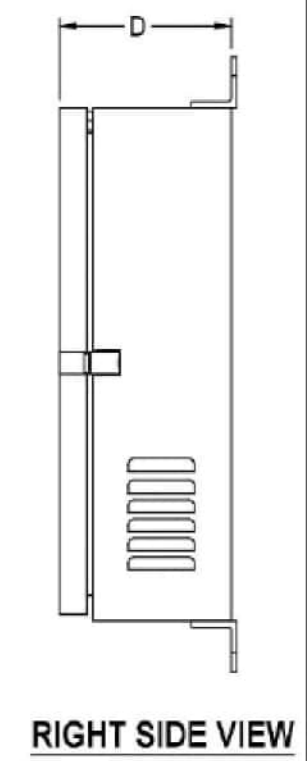
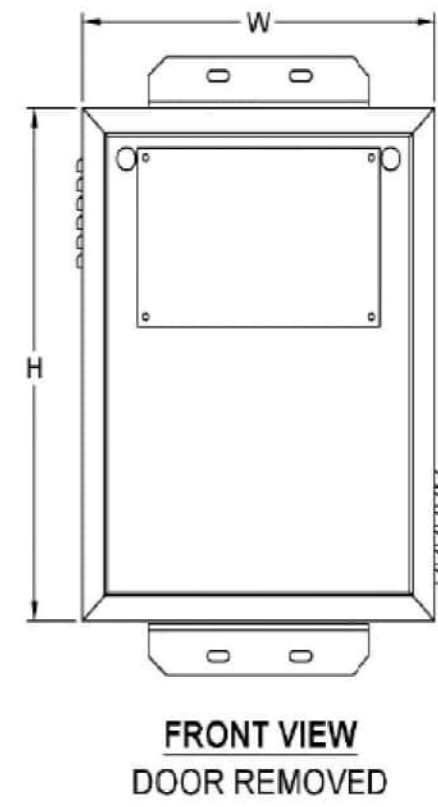
ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-6065

BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
PROPOSED WATER AND STORM SYSTEM PLAN & PROFILE

DRAWING SCALE:	HORIZ. =	VERT. =
SURVEYED:	FILE NAME:	DATE:
DRAWN:	GEJ	DESIGNED:
		EEL



Ground Mount Controller and Battery Enclosure

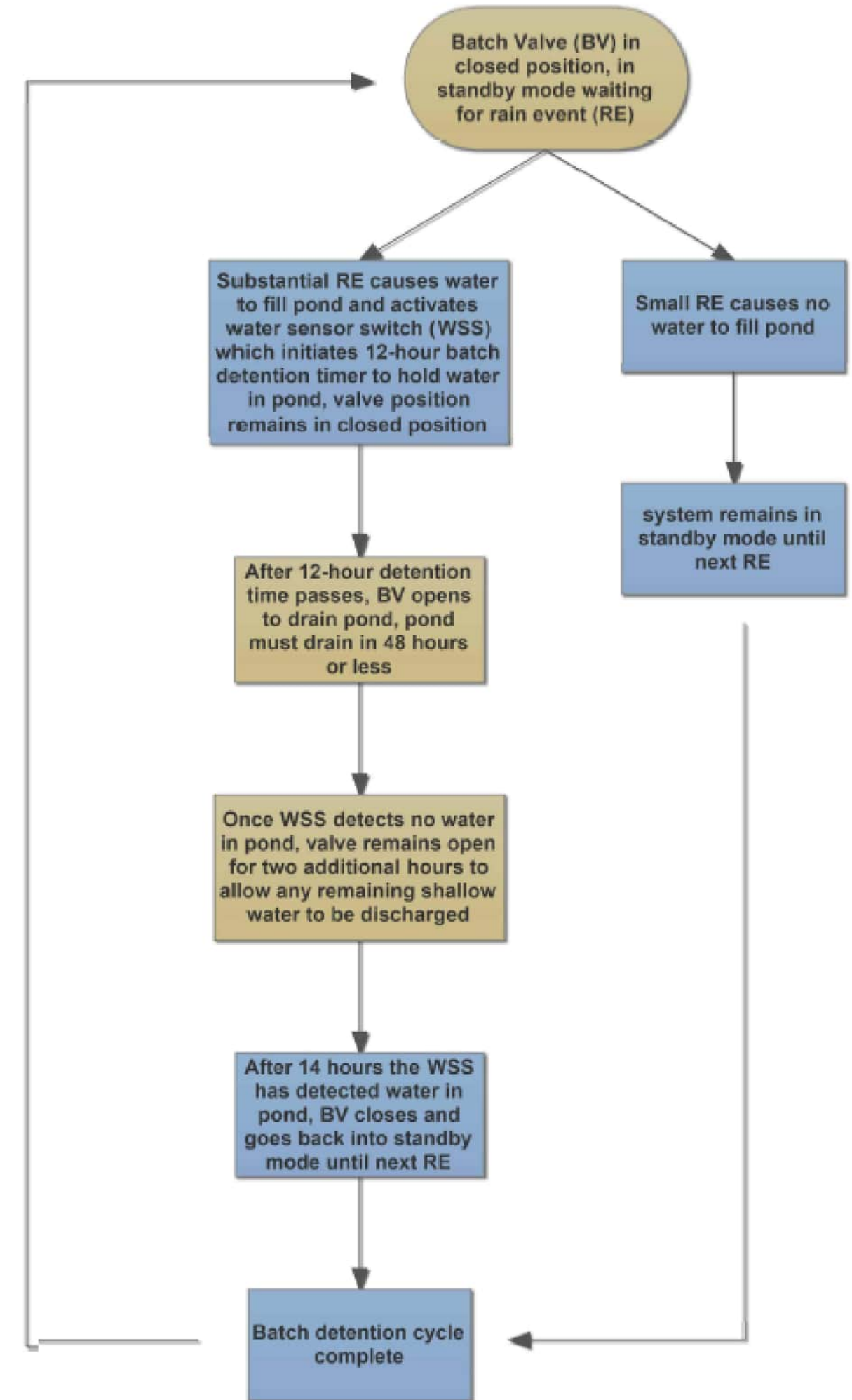


FRONT VIEW
DOOR REMOVED

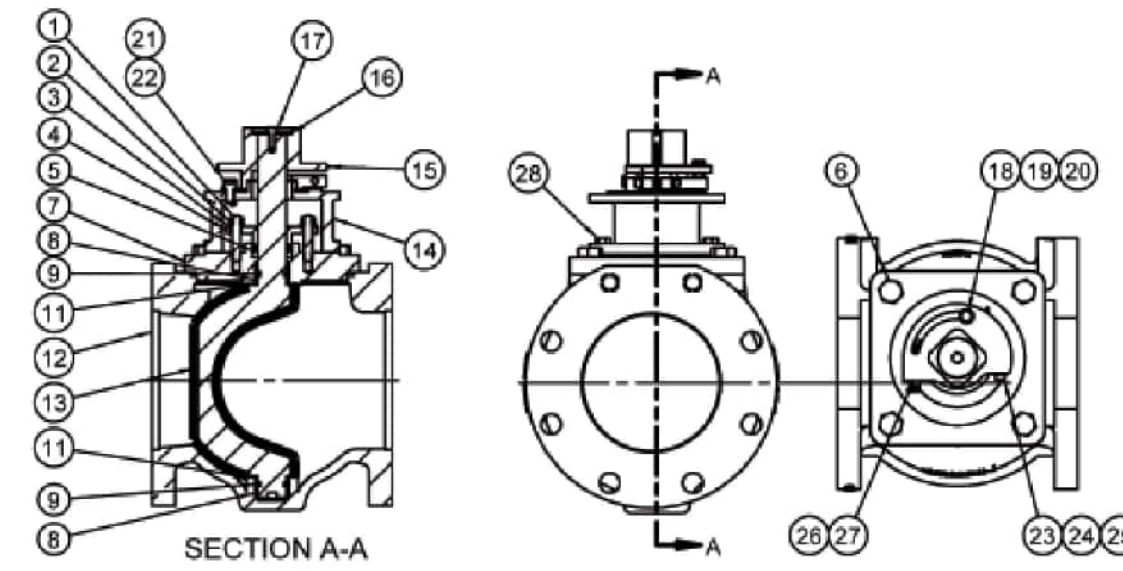
RIGHT SIDE VIEW

- Standard boxes are fabricated from .125" thick 5052-H32 aluminum
- Standard finish is a bright white polyester powder-coat inside and out
- Heavy-duty stainless steel continuous
- Two 7/8" diameter wire holes
- Heavy-duty stainless steel continuous hinge
- Built to NEMA 3R specifications
- Seams are continuously welded and then sanded smooth
- Filtered or screened ventilation louvers
- Adjustable tension stainless steel padlock hasp
- Hinged front door with PORON door gasket
- Removable component mounting plate
- Supplied with u-bolts (when pole specified)

Batch Valve Programmable Logic Flow Chart



800 SERIES MATERIAL LIST
2.5" to 12", 212F Max Temp., 175 psi Max Press, Bi-Directional



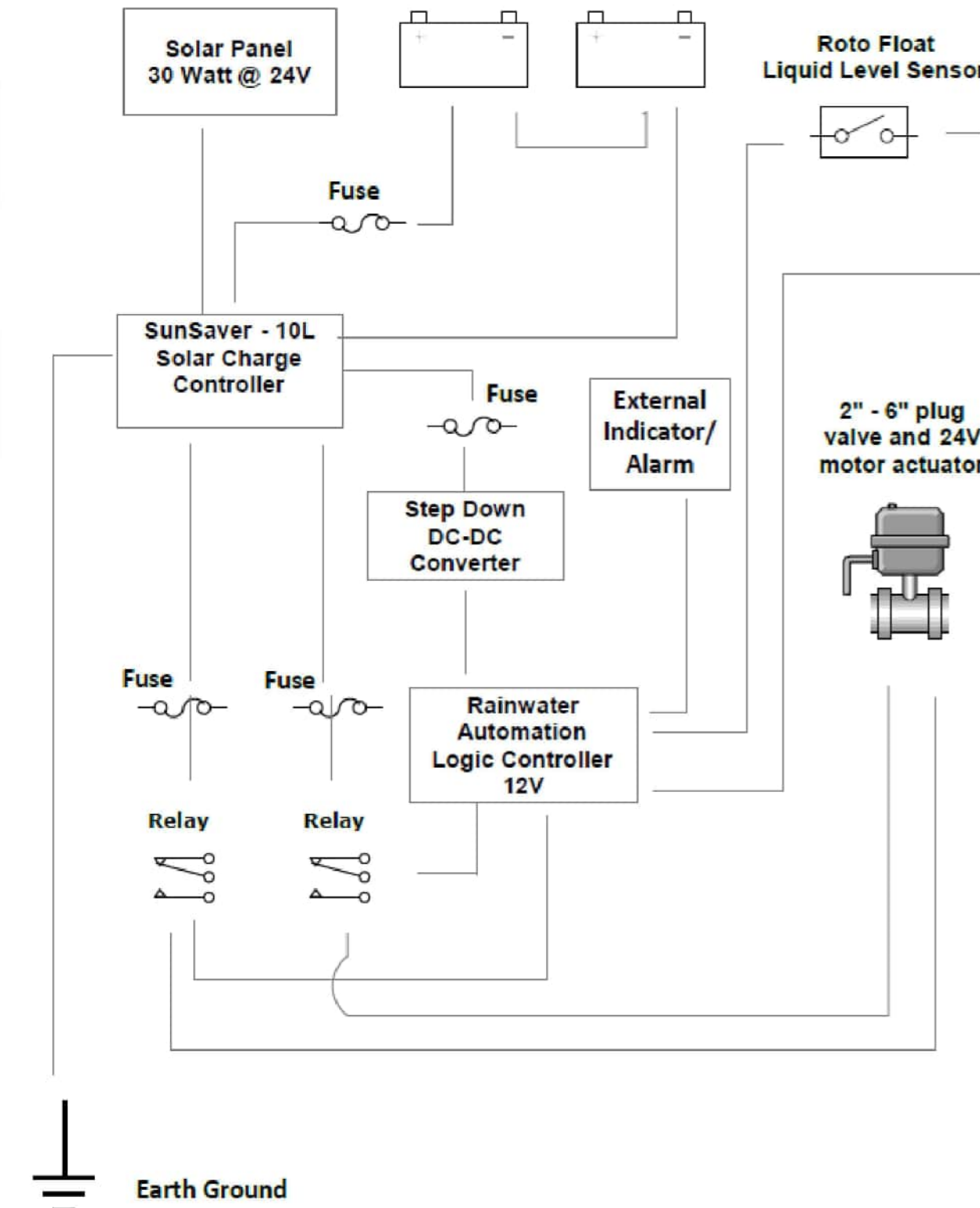
Item	Description	Material	Item	Description	Material
1	Gland Stud	Stainless Steel	15	Torque Collar	A536 GR 65-45-12
2	Hex Nut	Stainless Steel	16	Flat Washer	Q235-A Zinc Plated
3	Flat Washer	Stainless Steel	17	Socket Head Capscrew	Stainless Steel
4	Gland	ASTM A126 CL B	18	Hex Head Capscrew	Stainless Steel
5	V-Ring Set	NBR	19	Hex Nut	Stainless Steel
6	Hex Head Capscrew	Stainless Steel	20	Flat Washer	Stainless Steel
7	Cover	ASTM A126 CL B	21	Socket Head Capscrew	Stainless Steel
8	Bearing	SST, Sintered	22	Lock Washer	Stainless Steel
9	O-Ring	NBR	23	Socket Head Capscrew	Stainless Steel
10	O-Ring	NBR	24	Hex Nut	Stainless Steel
11	Thrust Washer	PTFE	25	Flat Washer	Stainless Steel
12	Body	ASTM A126 CL B	26	Hex Head Capscrew	Stainless Steel
13	Plug Molded	A536 GR 65-45-12 +NBR	27	Hex Nut	Stainless Steel
14	Torque Collar Adapter (Buried)	ASTM A126 CL B	28	Hex Head Capscrew	Stainless Steel

800 SERIES Cv Data (GPM@1PSI)

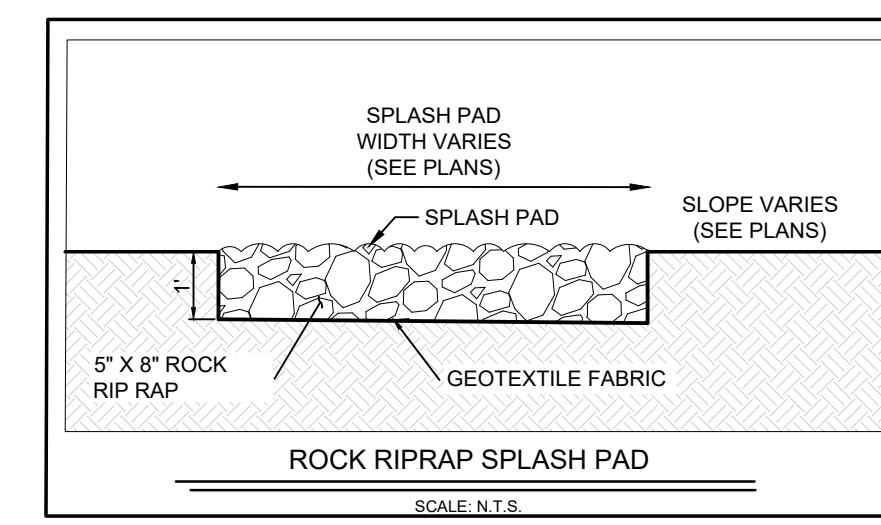
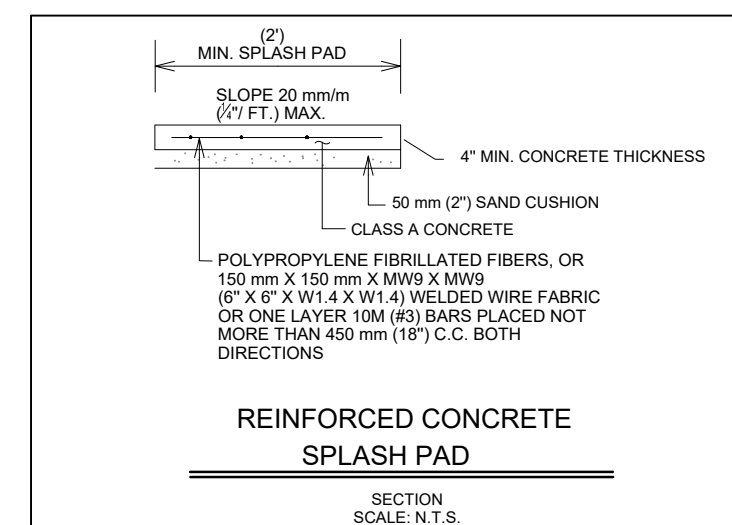
Size	2.5	3	4	5	6	8	10	12
Cv	425	680	1190	2000	2400	4600	5800	9100

Crispin/K-Flo Valves, 600 Fowler Ave., Berwick PA 18603 T: 800-247-VALV W: www.kflovalves.com

Circuit Block Diagram

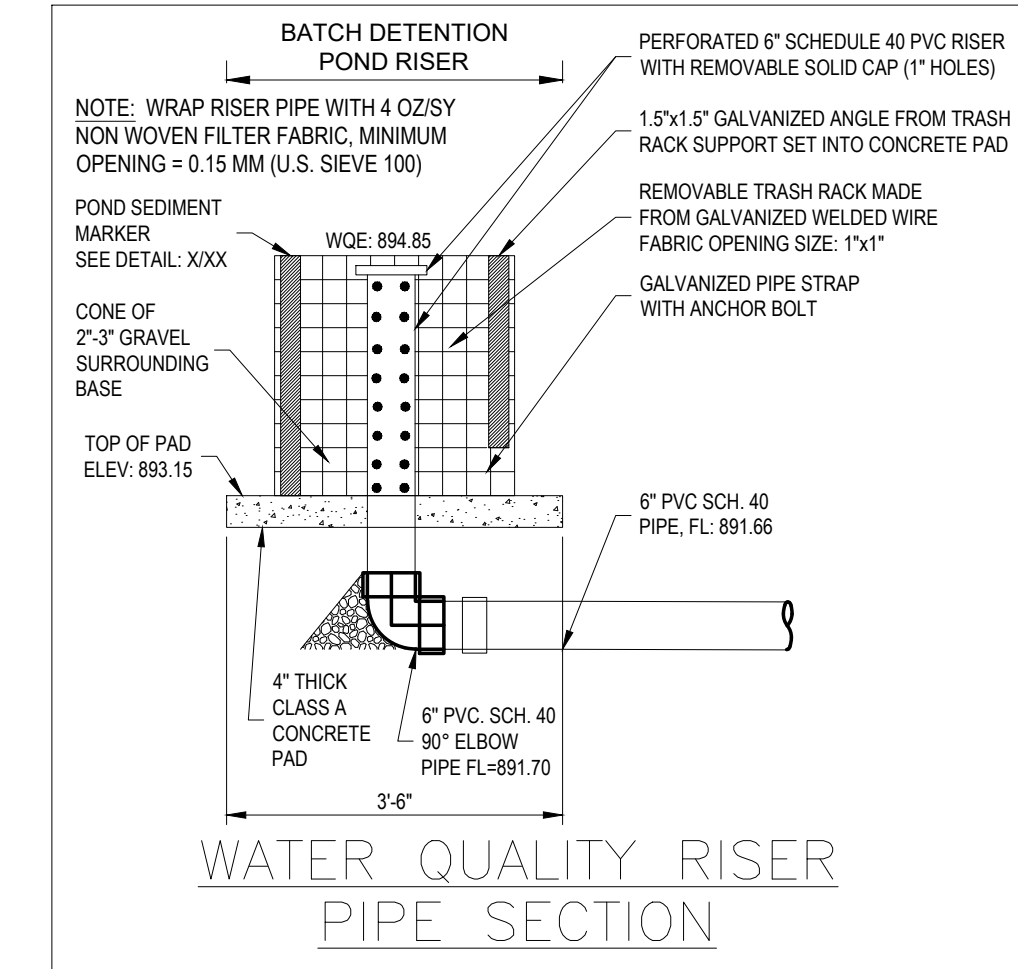


Actuator Specifications	P4	P5	P6
Torque "lb/Nm	3500"lbs/400Nm	4400"lbs/500Nm	5750"lbs/650Nm
Supply Voltage	12vac/vdc 24vac/vdc	12vac/vdc 24vac/vdc	12vac/vdc 24vac/vdc
Max Inrush Current	16.1A 9.2A	13.5A 9.0A	12.5A 8.5A
Running Current	16.1A 8.5A	14.1A 7.5A	12.3A 7.0A
Motor	DC Brush Type		
Runtime (90°@60Hz/vdc)	16 sec	22 sec	28 sec
Runtime (90°@50Hz)	16 sec	22 sec	28 sec
Duty Cycle	75%		
Motor Starts	1200 per hour		
Weight	47lbs/22kg		
Mechanical Connections	ISO5211 F10 8pt 35mm		
Electrical Entry	(2) 3/4" NPT		
Electrical Terminations	12-16ga		
Environmental Rating	NEMA 4/4X		
Manual Override	7.6" Handwheel		
Control	On/Off-Jog, Proportional		
Actuator Case material	Aluminum Alloy, Powder coated		
Motor Protection	230°F/110°C Thermal F° Class *Totally Enclosed Non-Ventilated Motors		
Ambient Temperature	-22°F to +125°F		
Operating Range	-30°C to +52°C		



TCEQ CONSTRUCTION NOTES:

- A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
 - THE NAME OF THE APPROVED PROJECT,
 - THE ACTIVITY START DATE, AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
- ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON-SITE.
- NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
- PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
- SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFF-SITE.
- ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
- THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
 - 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.
- THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT POND, DAMS, BERMS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
 - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
 - C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
 - D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

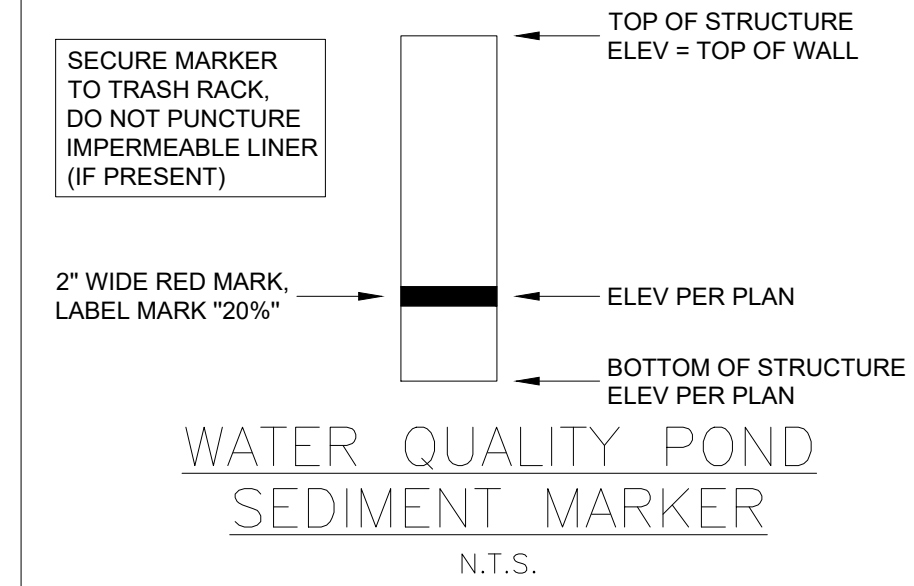


WATER QUALITY RISER PIPE SECTION

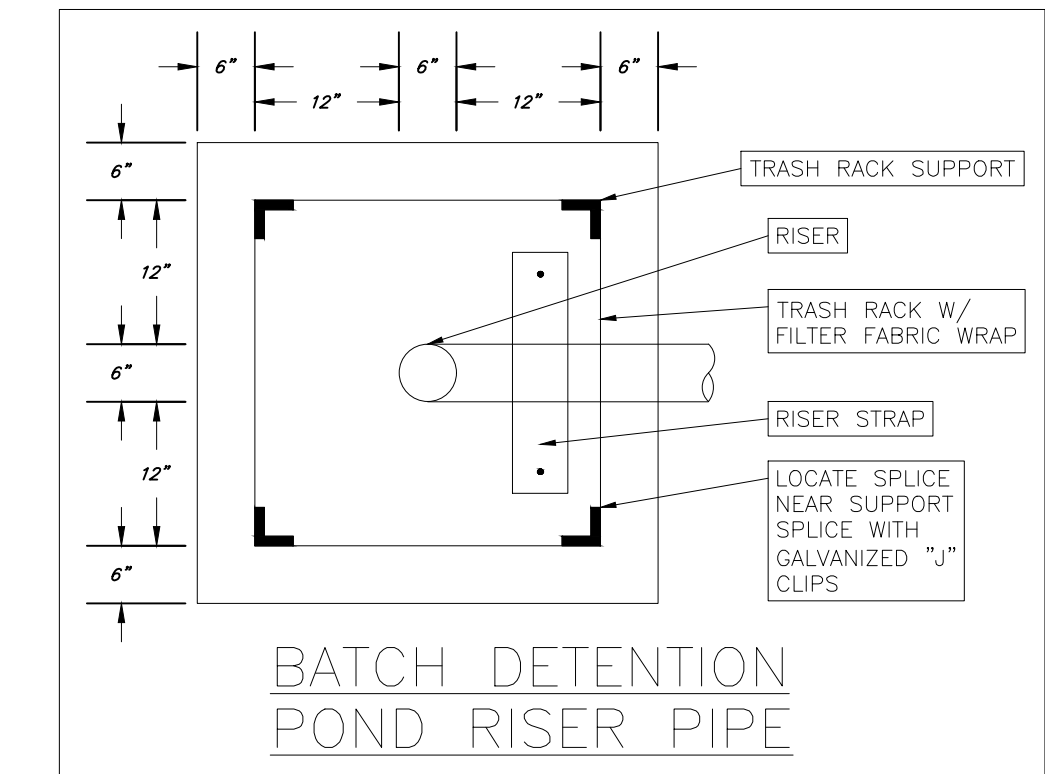
NOTES:

- POST THE FOLLOWING SIGN UNDER THE VISIBLE ALARM FOR EMERGENCY CONTACT:

EMERGENCY CONTACT:
 OWNER: XXX-XXX-XXXX
 TCEQ: 512-339-2929
- POND BOTTOM SHALL BE VEGETATED PER THE SEEDING SPECIFICATION ON THE EROSION CONTROL PLAN SHEET.



WATER QUALITY POND SEDIMENT MARKER
N.T.S.



BATCH DETENTION POND RISER PIPE

NO.	DATE	REVISION	BY



Jun 14, 2023
 TPBELS FIRM No. 17877
ELI ENGINEERING
 ELI ENGINEERING, PLLC
 700 THERESA COVE, CEDAR PARK, TX 78613
 512-656-8606
 gelijones@gmail.com

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
 SITE PLAN IMPROVEMENTS
 POND DETAILS AND CALCULATIONS

DRAWING SCALE:	HORIZ. =	VERT. =
SURVEYED:	FILE NAME:	
DATE:	DRAWN: GEJ	DESIGNED: EEI
SHEET		
15		
OF		
19		

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

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

Characters shown in red are data entry fields.

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

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where: L_M TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load
 A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

County = **Williamson**
Total project area included in plan = **5.74** acres
Predevelopment impervious area within the limits of the plan = **0.06** acres
Total post-development impervious area within the limits of the plan = **1.32** acres
Total post-development impervious cover fraction = **0.23**
 P = **32** inches

L_M TOTAL PROJECT = **1100** lbs.

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

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

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

Drainage Basin/Outfall Area No. = **1** "PR DA-1"

Total drainage basin/outfall area = **5.74** acres
Predevelopment impervious area within drainage basin/outfall area = **0.06** acres
Post-development impervious area within drainage basin/outfall area = **1.32** acres
Post-development impervious fraction within drainage basin/outfall area = **0.23**
 L_M THIS BASIN = **1100** lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = **Batch Detention**
Removal efficiency = **91** percent

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

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

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

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

A_C = **1.88** acres
 A_i = **1.32** acres
 A_p = **0.56** acres
 L_R = **1339** lbs

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

Desired L_M THIS BASIN = **1100** lbs.
 F = **0.82**

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

Rainfall Depth = **1.16** inches
Post Development Runoff Coefficient = **0.51**
On-site Water Quality Volume = **4020** cubic feet

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

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

Storage for Sediment = **804** cubic feet
Total Capture Volume (required water quality volume(s) x 1.20) = **4824** cubic feet

BATCH DETENTION POND	
Contributing Drainage Area =	"PR DA-1"
Total Drainage Area =	5.74 acre
Pre-Development I.C. =	0.06 acre
Post-Development I.C. =	1.32 acre
Post-Development I.C. Fraction =	0.23
L_M TOTAL PROJECT =	1100 lbs
A_C =	1.88 acre
A_i =	1.32 acre
A_p =	0.56 acre
L_R =	1339 lbs
Desired L_M this basin =	1100 lbs
Fraction of Annual Runoff (F) =	0.82
Rainfall Depth =	1.16 inch
Post Development Runoff Coefficient =	0.51
On-site Water Quality Volume =	4020 cubic ft
Off-site area draining to BMP =	0.00 acre
Off-site impervious cover draining to BMP =	0.00 acre
Impervious fraction of off-site area =	-
Off-site Runoff Coefficient =	-
Off-site Water Quality Volume =	0 cubic ft
Storage for Sediment =	804 cubic ft
Total Capture Volume Required =	4824 cubic ft
Total Capture Volume Provided =	4960 cubic ft

TABLE 1 - TIME OF CONCENTRATION CALCULATIONS

AREA	Sheet Flow (min)							Shallow Concentrated Flow (min)					Tc (min)	Lag (0.6Tc) (min)	
	USFL (ft)	DSFL (ft)	L (ft)	s (ft/ft)	n	P2 (in)	time (min)	USFL (ft)	DSFL (ft)	L (ft)	s (ft/ft)	SURFACE (min)			time (min)
PRE	922	918	100	0.040	0.06	3.94	3	918	900	350	0.047	UNPAVED	2	5	3
POST	SOLVED BY INSPECTION														

TABLE 2 - NCRS HYDROGRAPH PARAMETERS

ID	AREA (SQM)	BASE CN	% IC	LAG (MIN)
PRE	0.0029	65	0%	3
POST	0.0029	65	71%	3

TABLE 3 - DETENTION POND DATA RATING TABLE

FRQ	ELEV (FT)	CUM VOL (AC-FT)	PEAK INFLOW (CFS)	PEAK OUTFLOW (CFS)	ALLOWABLE (CFS)	DELTA (CFS)
-	893.15	0.00	-	0.0	-	-
-	893.50	0.00	-	0.0	-	-
-	894.00	0.02	-	0.0	-	-
-	894.50	0.06	-	0.0	-	-
WQV	894.85	0.11	-	0.0	-	-
-	895.00	0.14	-	0.2	-	-
-	895.50	0.23	-	1.6	-	-
2	895.73	0.28	8.22	2.5	2.85	-0.4
-	896.00	0.33	-	5.6	-	-
10	896.06	0.34	13.15	6.5	7.42	-0.9
25	896.23	0.38	16.57	9.8	10.96	-1.1
100	896.47	0.43	22.27	15.3	17.14	-1.8
-	896.50	0.43	-	16.1	-	-

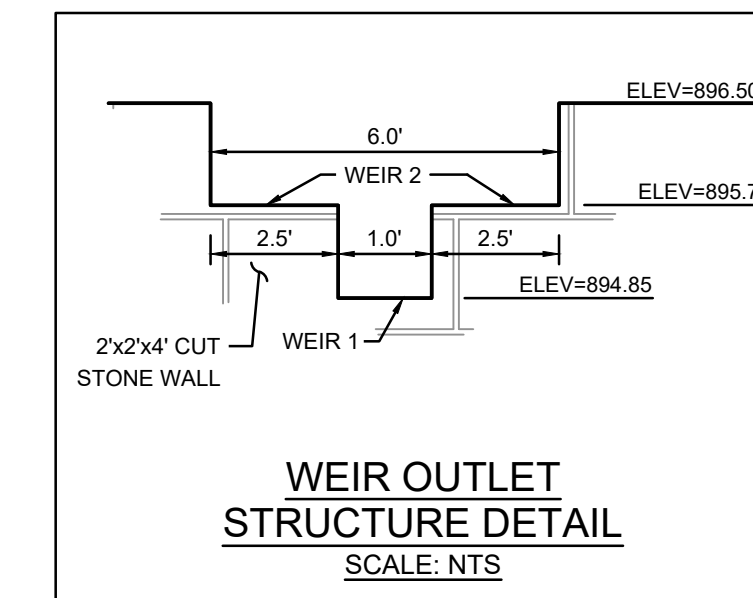
TABLE 4 - HMS RESULTS

FEQ	HMS ELEMENT	DA (SQM)	PEAK Q (CFS)	TIME TO PEAK	RUNOFF VOL (IN)
2	PRE	0.004	4	01Jan2023, 12:05	0.99
2	POST	0.004	10	01Jan2023, 12:04	2.85
2	DET-POND	0.004	4	01Jan2023, 12:15	2.85
2	DELTA	-	0	-	-
10	PRE	0.004	10	01Jan2023, 12:05	2.57
10	POST	0.004	17	01Jan2023, 12:04	4.92
10	DET-POND	0.004	9	01Jan2023, 12:11	4.91
10	DELTA	-	-2	-	-
25	PRE	0.004	15	01Jan2023, 12:04	3.92
25	POST	0.004	22	01Jan2023, 12:04	6.51
25	DET-POND	0.004	13	01Jan2023, 12:09	6.51
25	DELTA	-	-2	-	-
100	PRE	0.004	24	01Jan2023, 12:04	6.6
100	POST	0.004	30	01Jan2023, 12:04	9.5
100	DET-POND	0.004	21	01Jan2023, 12:08	9.49
100	DELTA	-	-3	-	-

TABLE 5 - DETENTION POND OUTLET STRUCTURE

OUTLET WEIR 1:
CREST ELEV = 894.85
WIDTH = 1
CD = 3.0

OUTLET WEIR 2:
CREST ELEV = 895.75
WIDTH = 5.0
CD = 3.0



WEIR OUTLET STRUCTURE DETAIL
SCALE: NTS

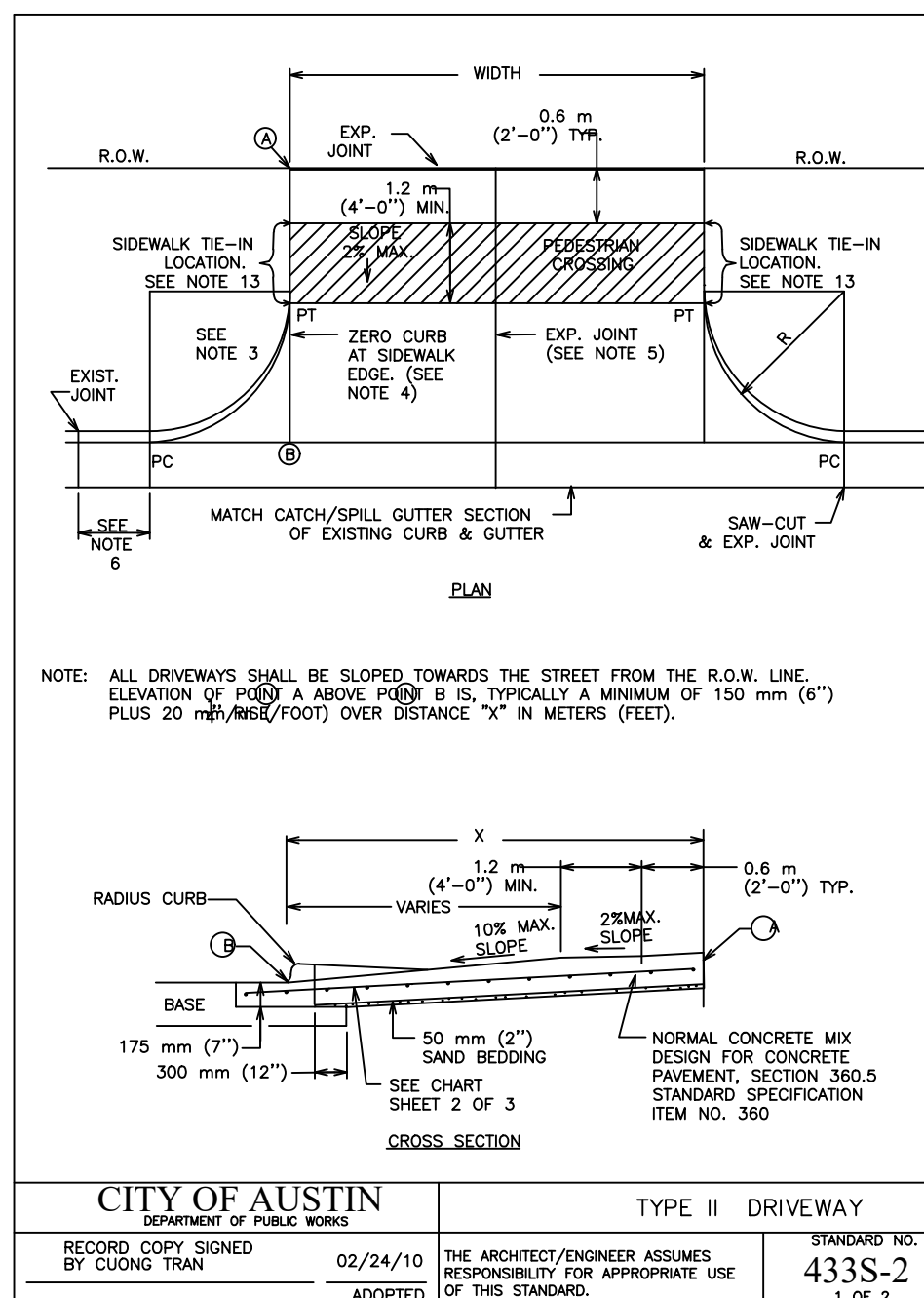
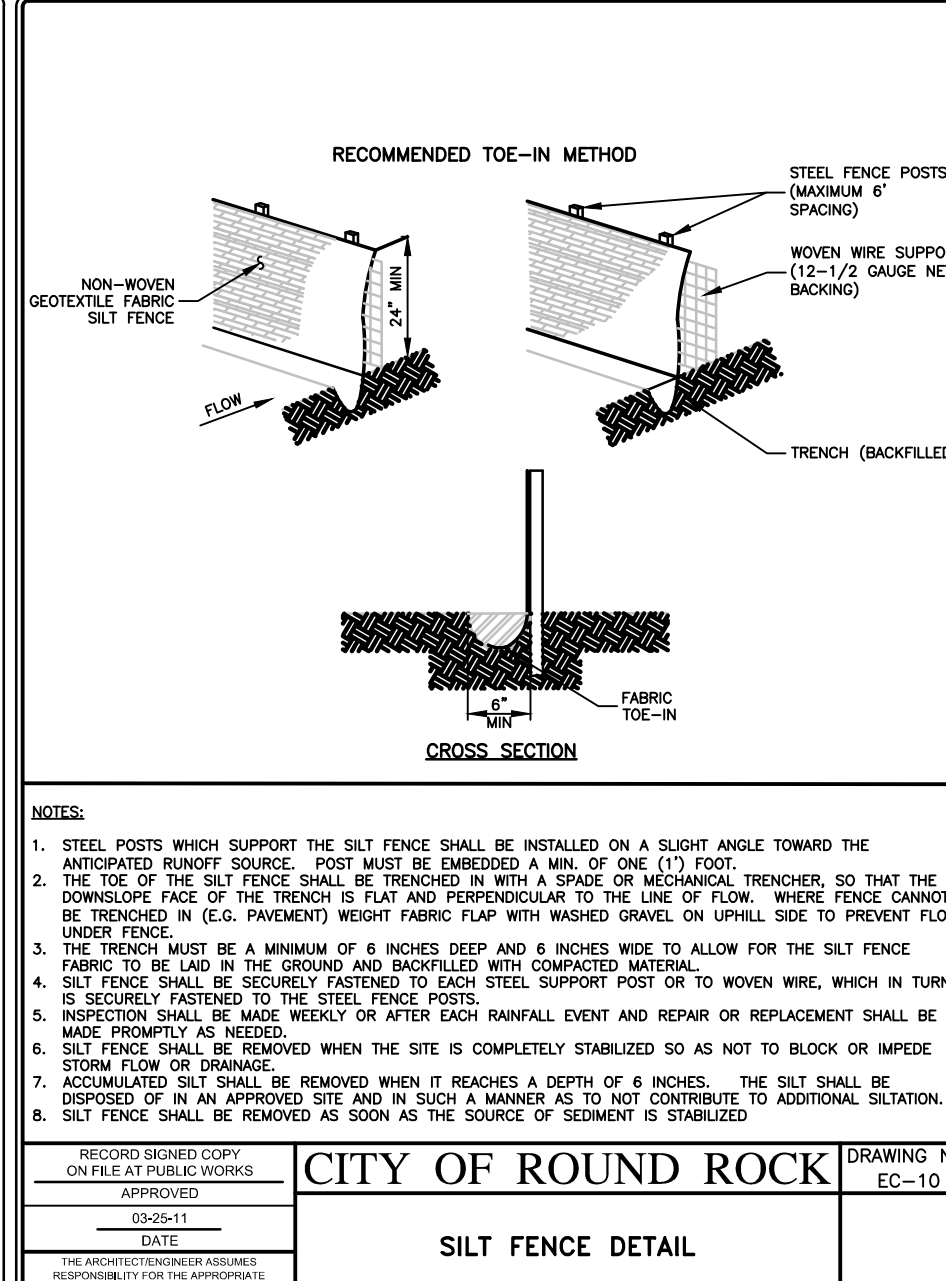
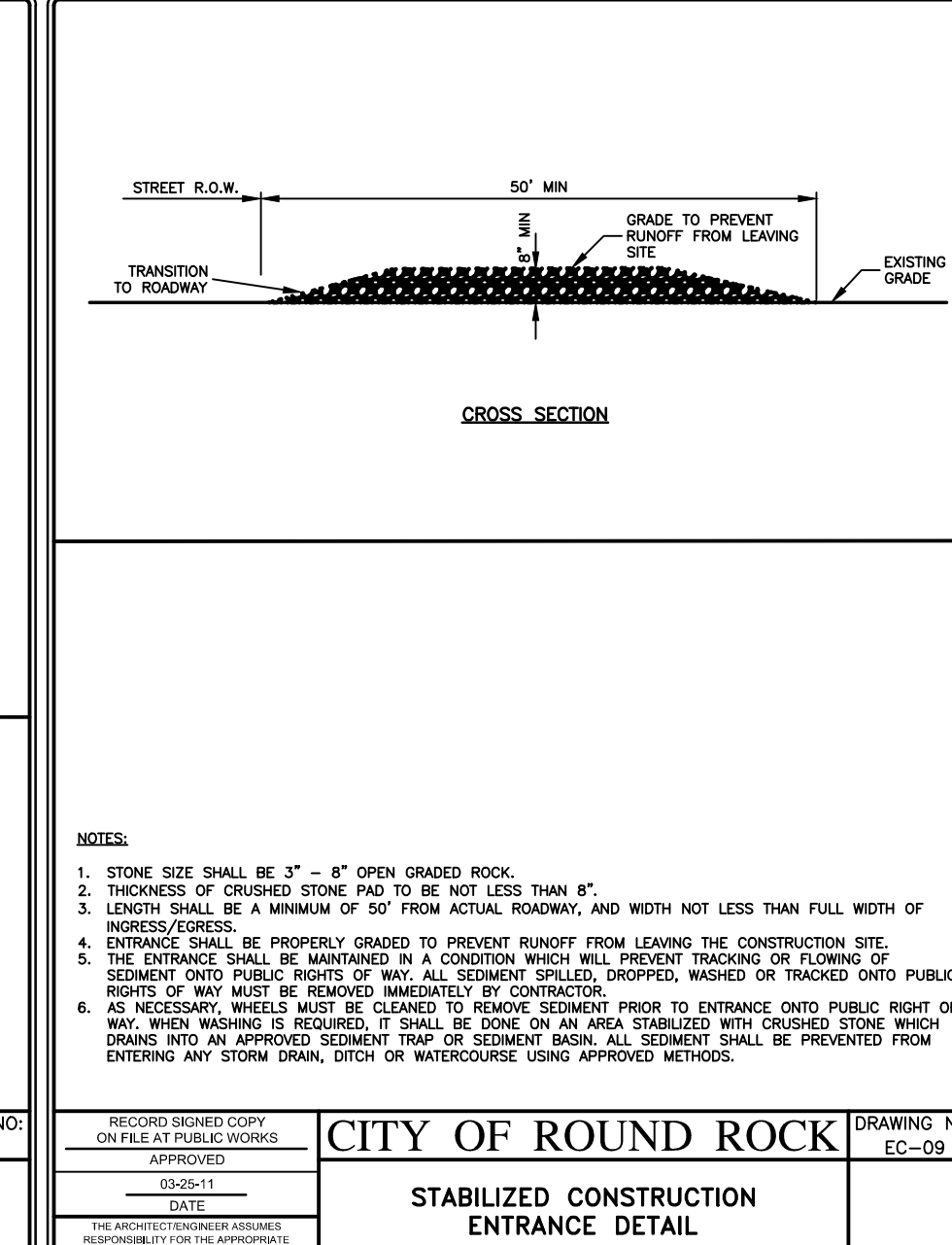
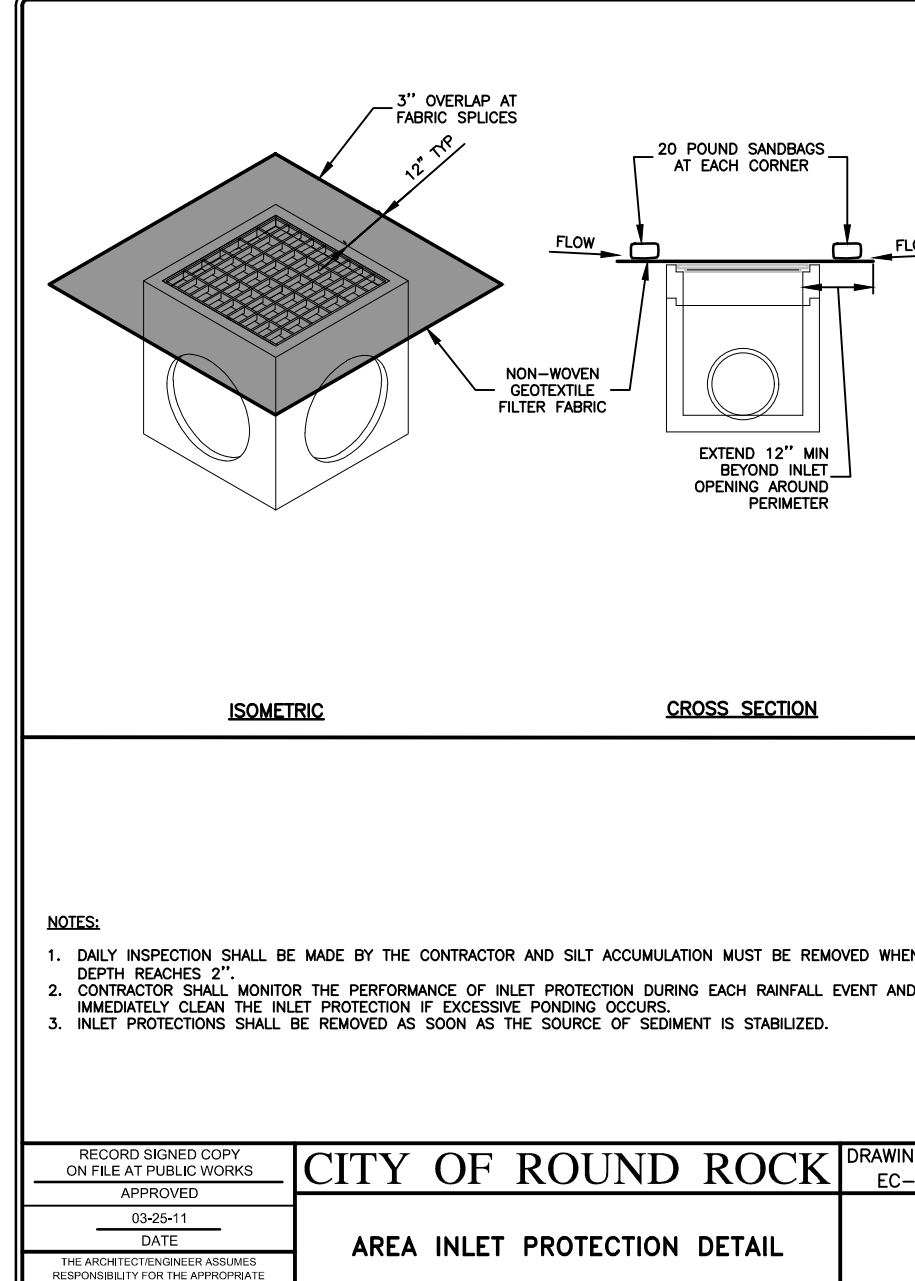
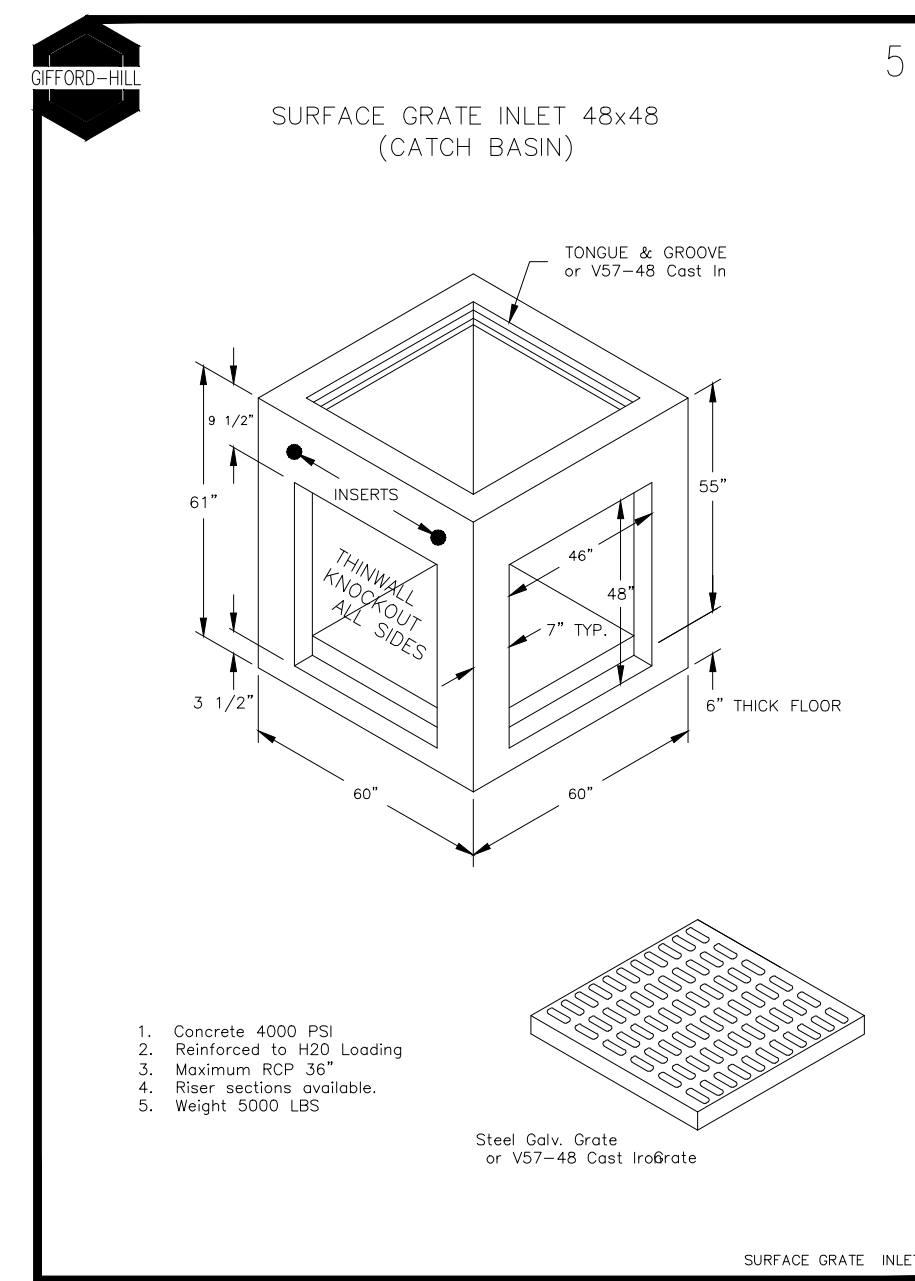


Jun 14, 2023
TPELS FIRM No. 17877
ELI ENGINEERING
ELI ENGINEERING, PLLC.
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8695

WILLIAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
POND CALCULATIONS

DRAWING SCALE: HORIZ. = VERT. =
SURVEYED: FILE NAME:
DATE: DRAWN: GEJ
DESIGNED: EEI

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16
OF
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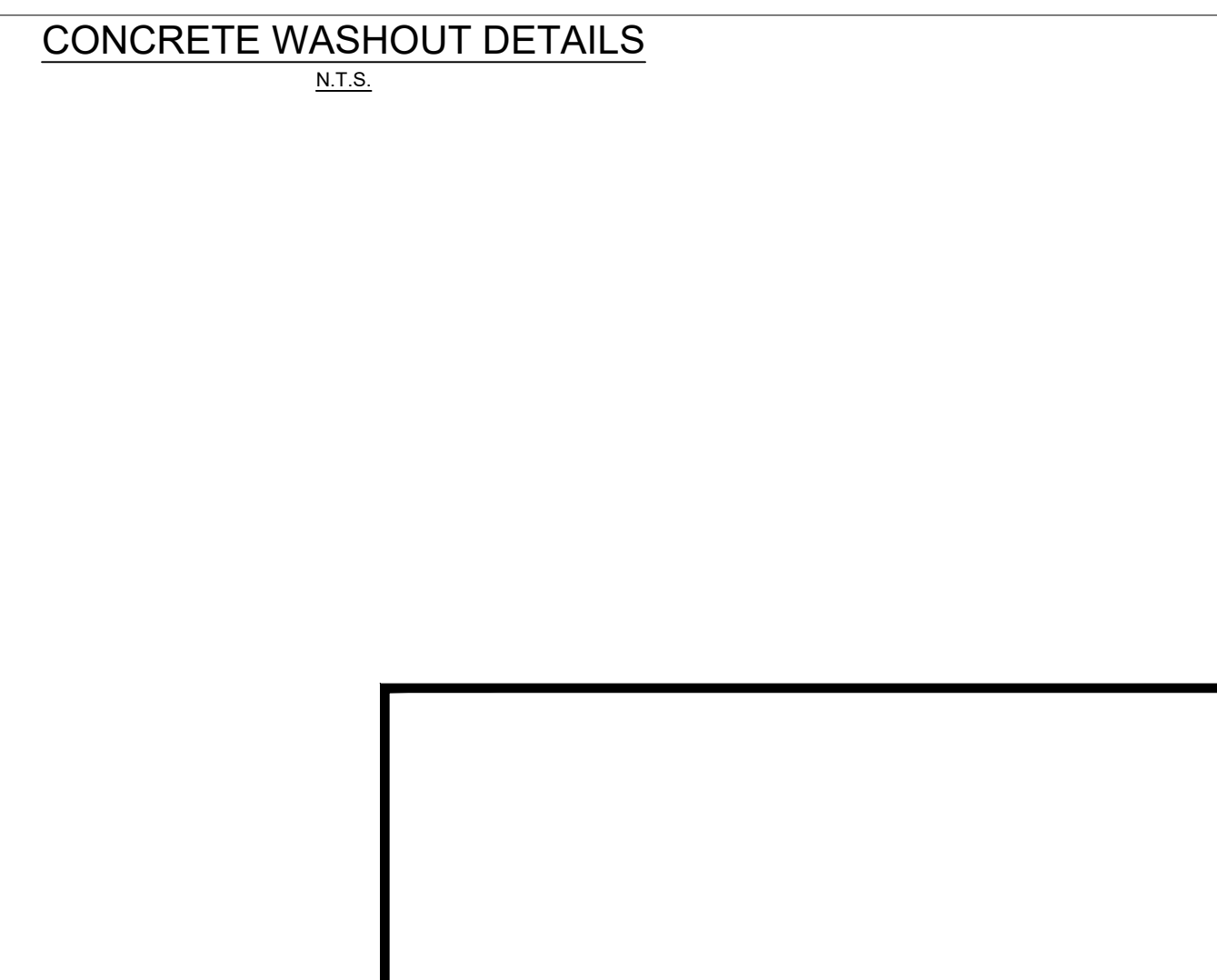
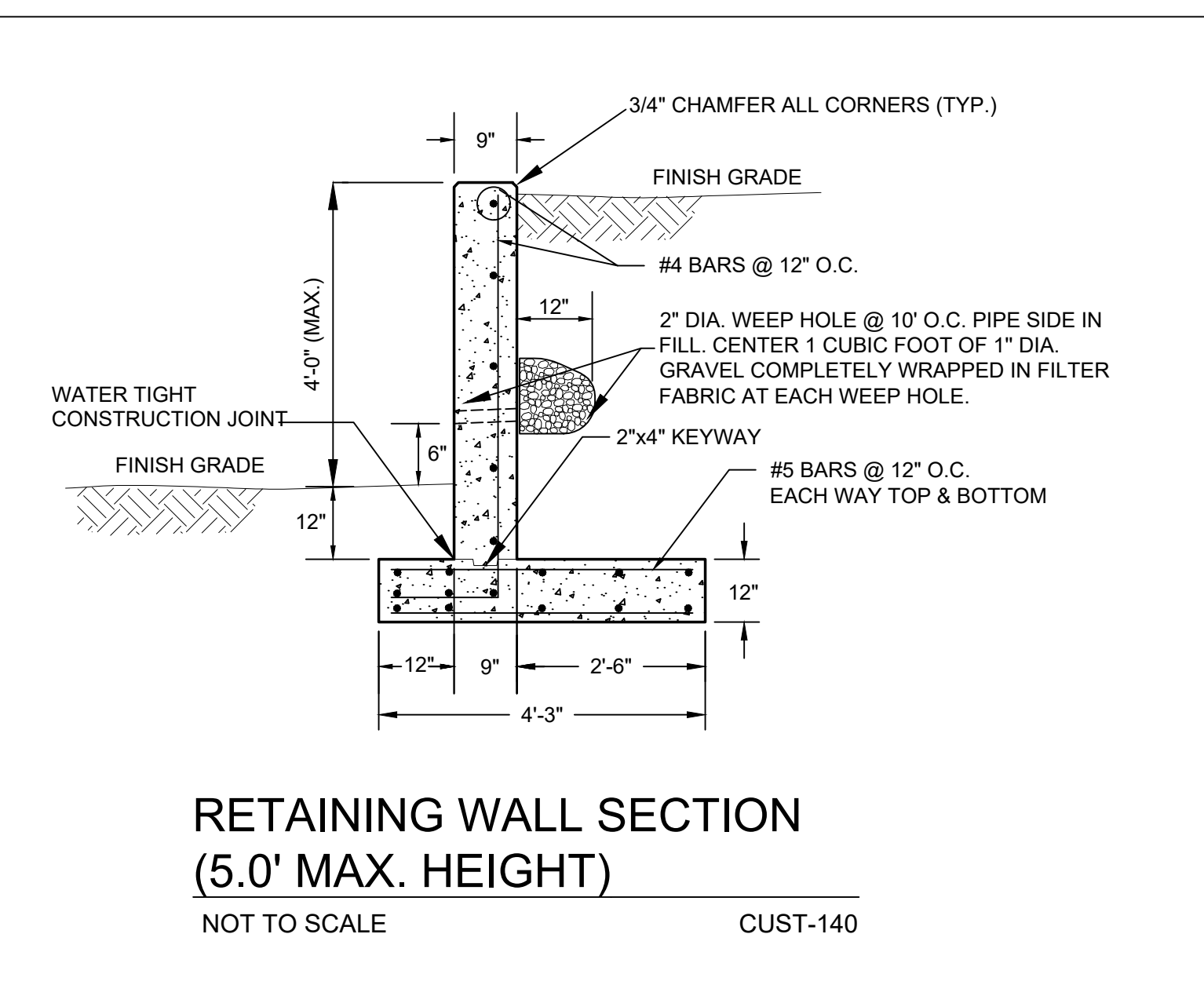
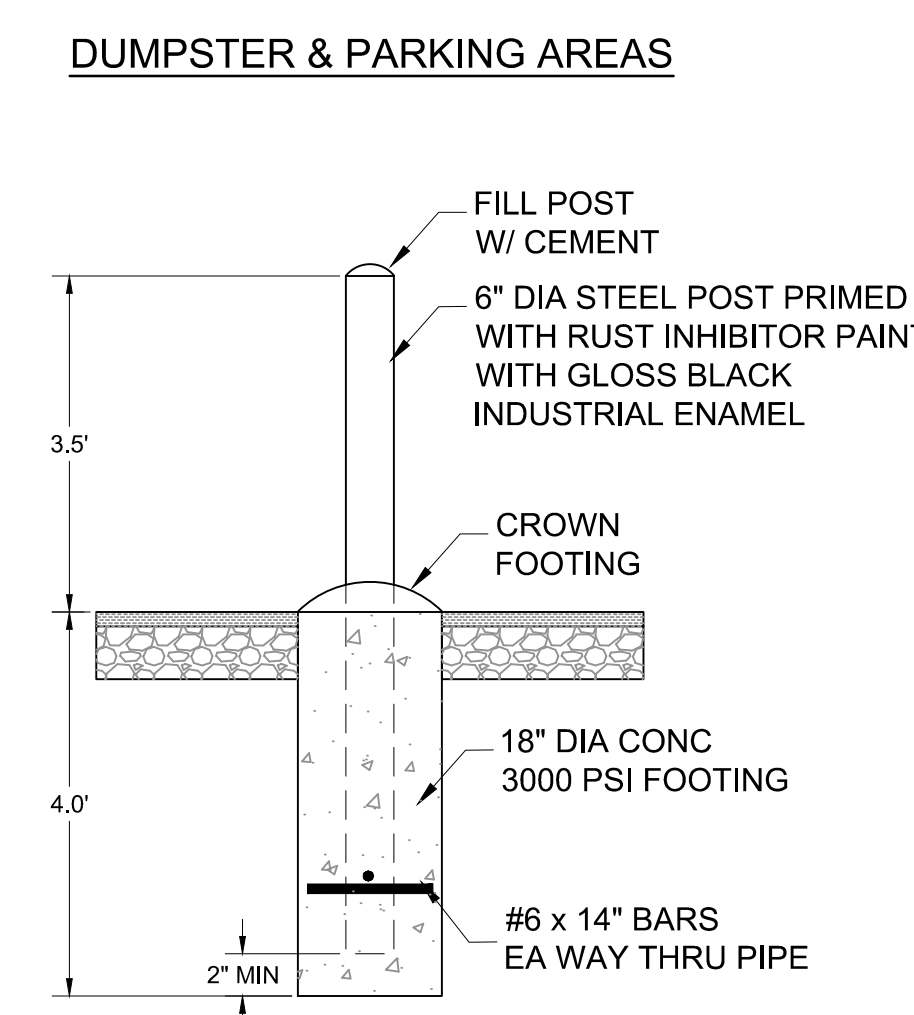
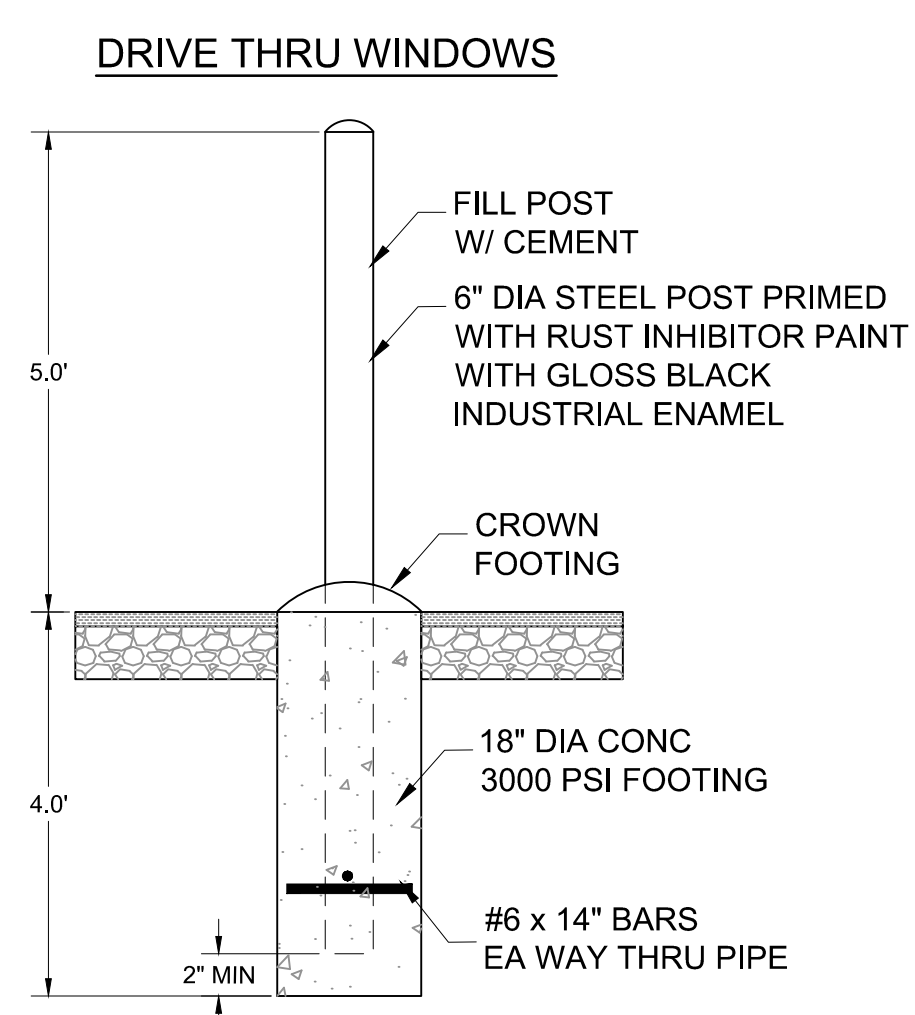
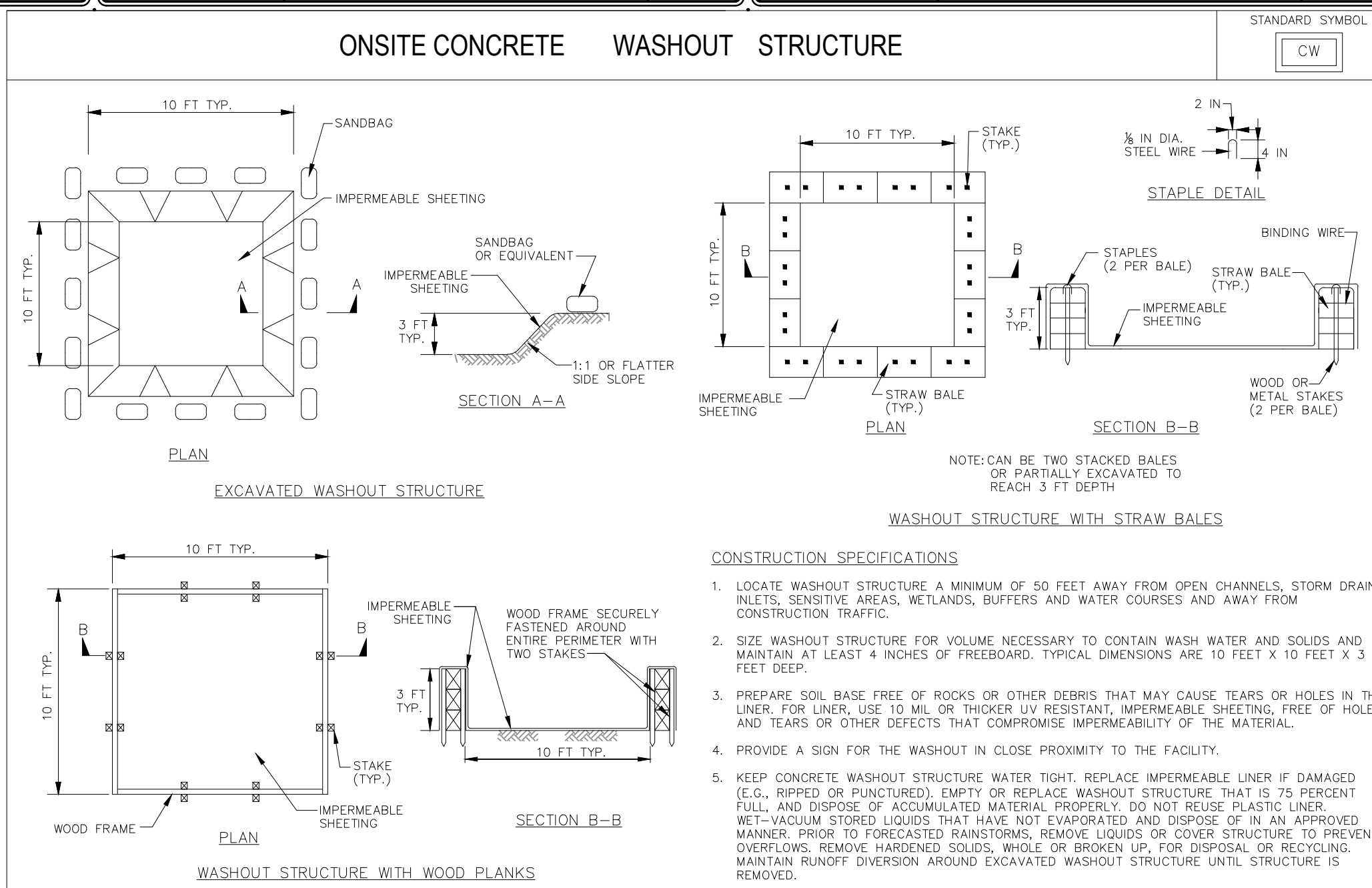


USE	THICKNESS	REINFORCEMENT
DRIVEWAYS FOR PASSENGER VEHICLE PARKING LOTS	150 mm (6") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDLE OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS
ALL OTHERS	175 mm (7") MIN.	125 mm (5") MIN. CONCRETE WITH ONE LAYER OF 13M (#4) BARS PLACED ON CHAIRS AT MIDDLE OF SLAB AT NO MORE THAN 450 mm (18") O.C. BOTH DIRECTIONS

ALLOWABLE GRADES

DRIVEWAY VOLUME (ADT)	D=GRADE CHANGE	STD.	MAX.
>1500	0%	3%	5%
500-1500	3%	5%	8%
< 500	5%	8%	10%

CITY OF AUSTIN TYPE II DRIVEWAY



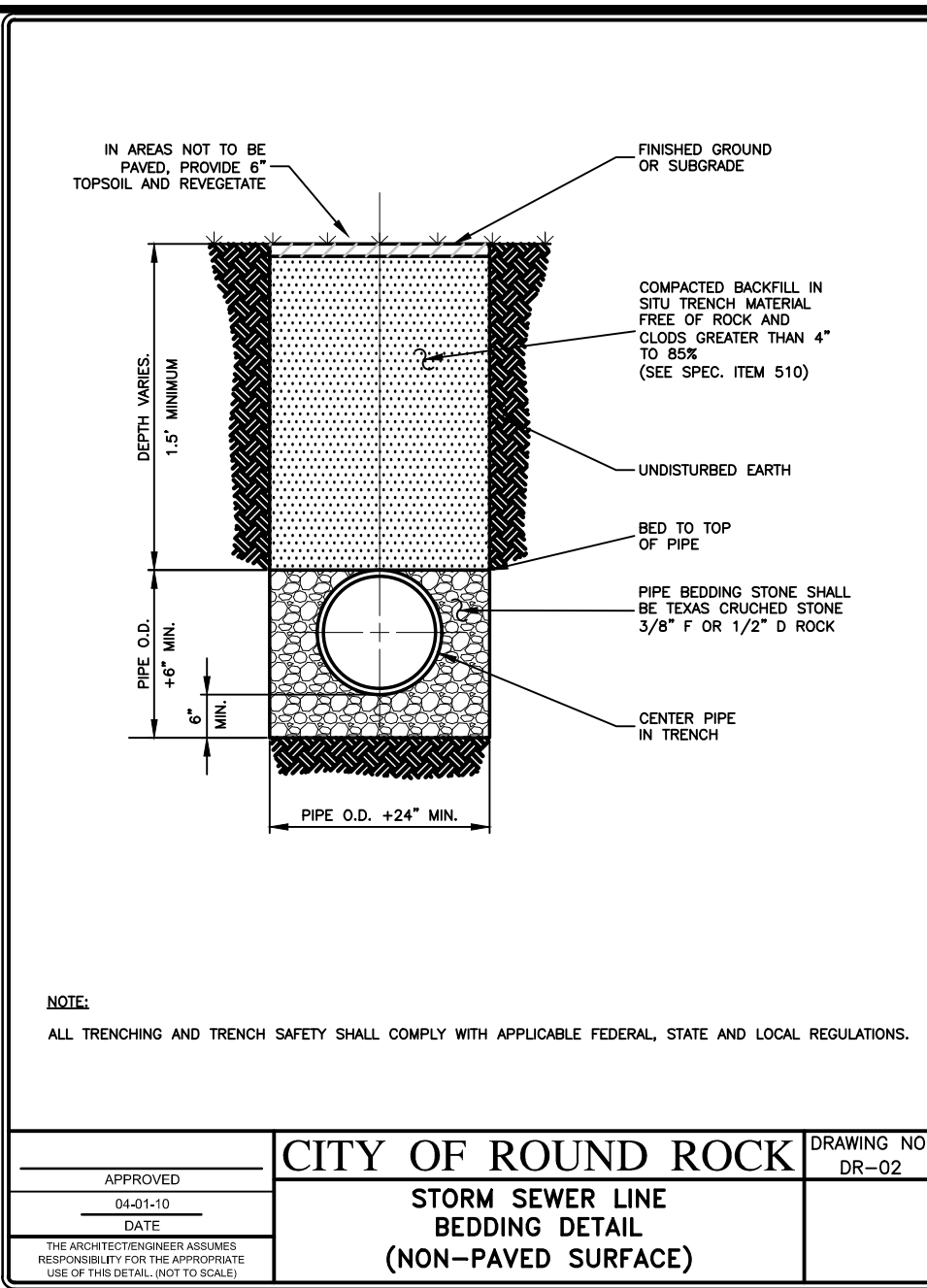
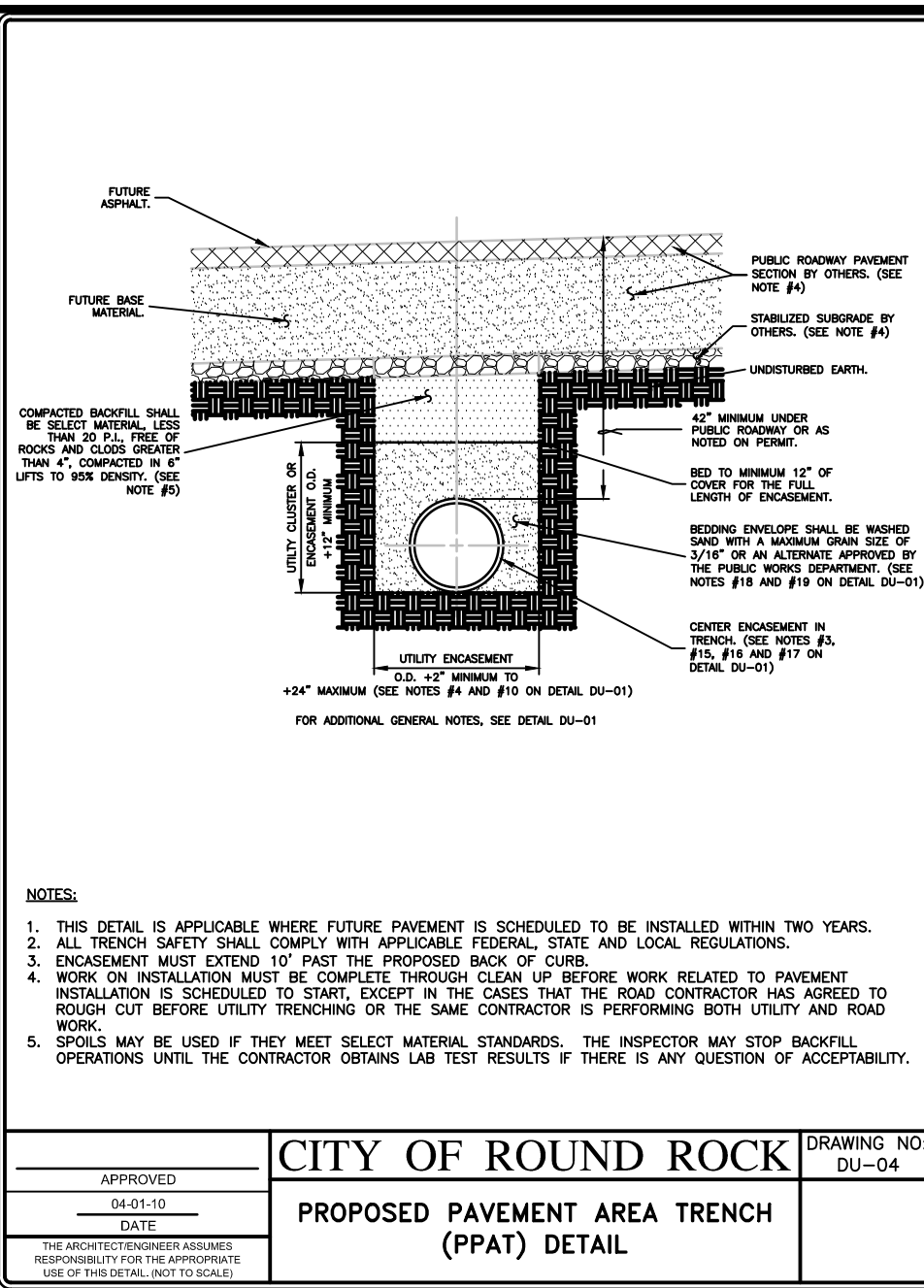
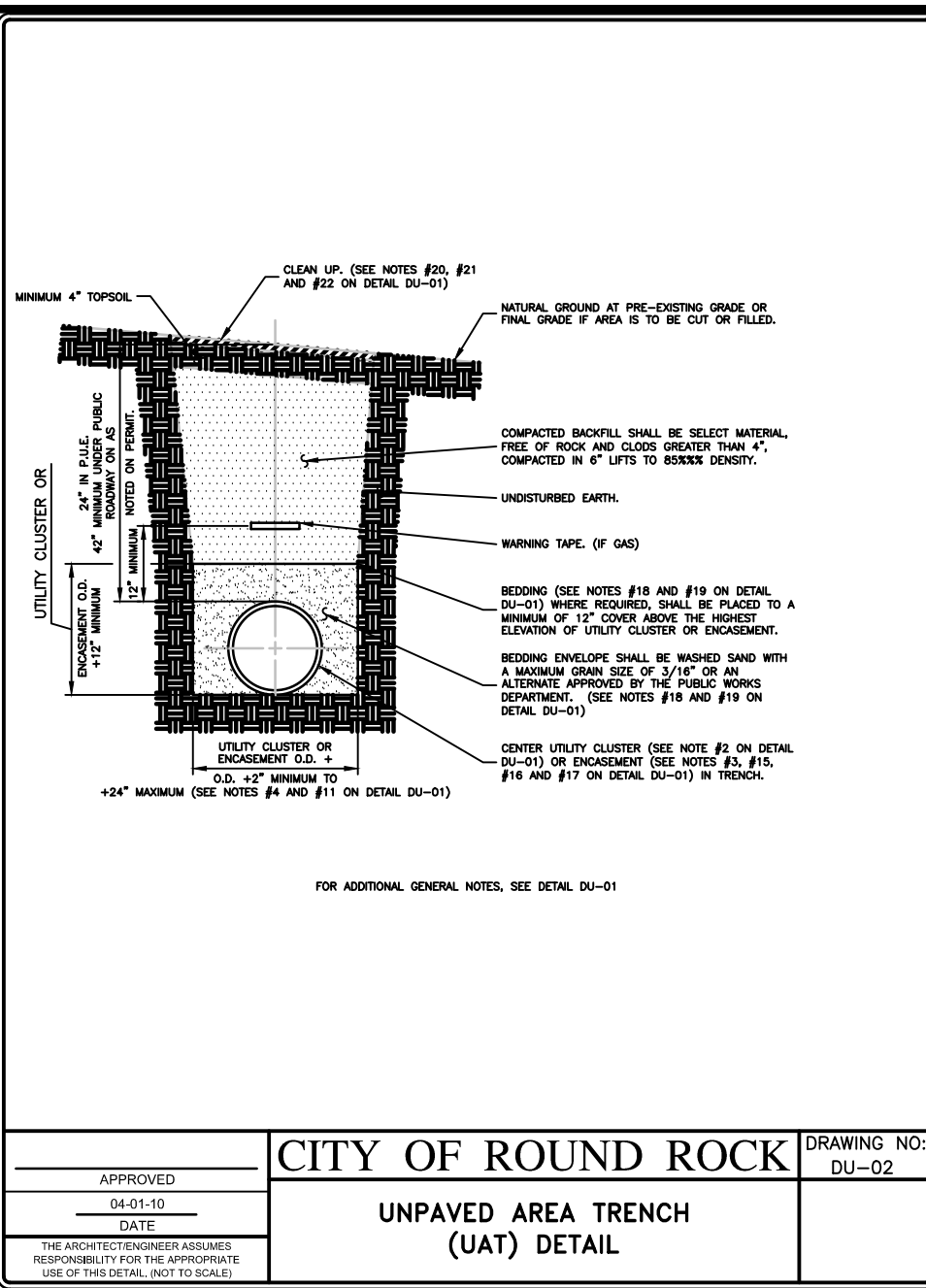
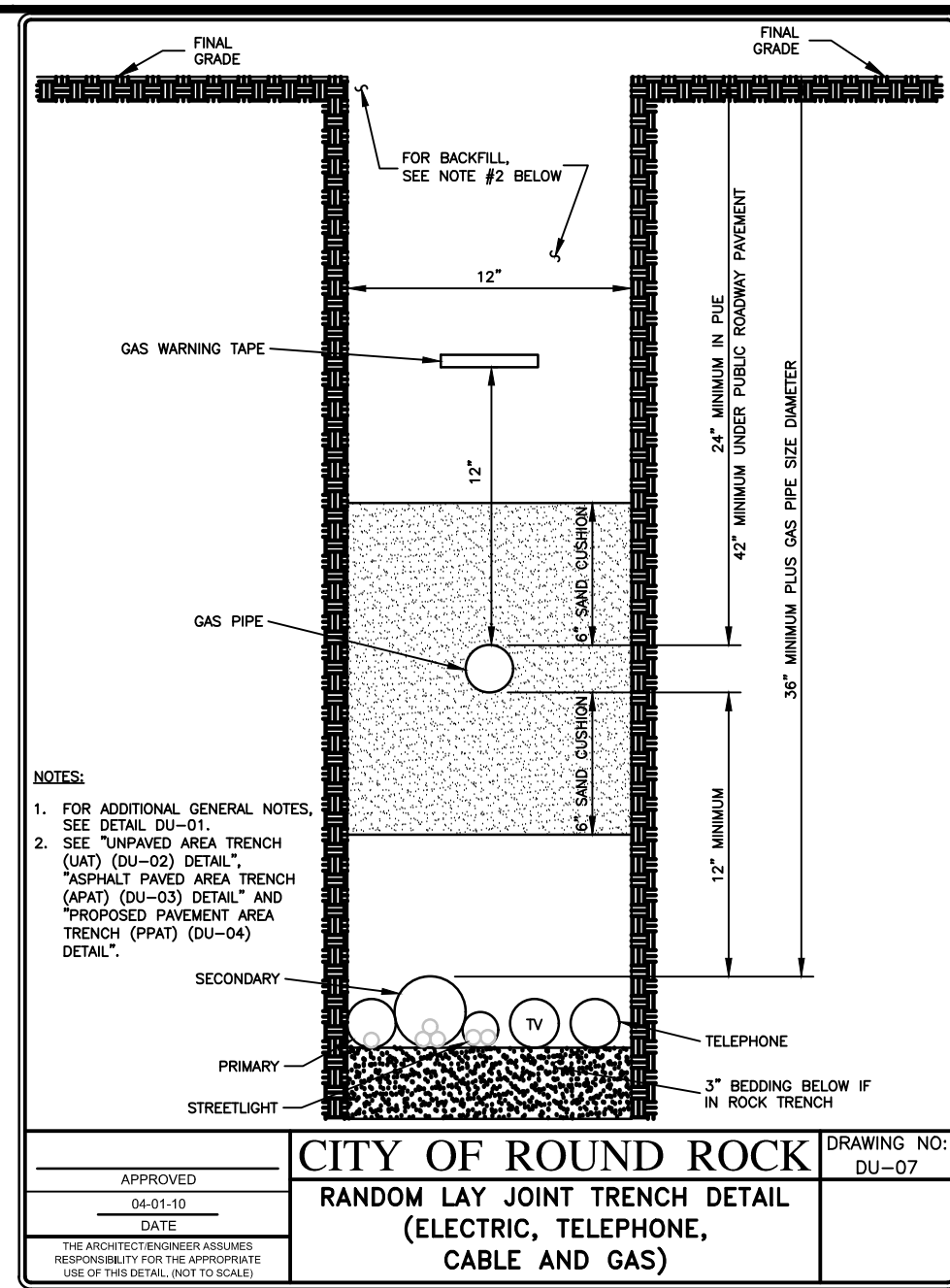
GARY ELI JONES
79198
REGISTERED PROFESSIONAL ENGINEER

Jun 14, 2023

ELLI ENGINEERING, PLLC
700 THERESA COVE, CEDAR PARK, TX 78613
512-656-8695

BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
STANDARD DETAILS (1 OF 3)

DRAWING SCALE:	HORIZ. = N.T.S.	VERT. = 1:1
SURVEYED:	FILE NAME:	DATE:
DRAWN:	GEJ	DESIGNED:
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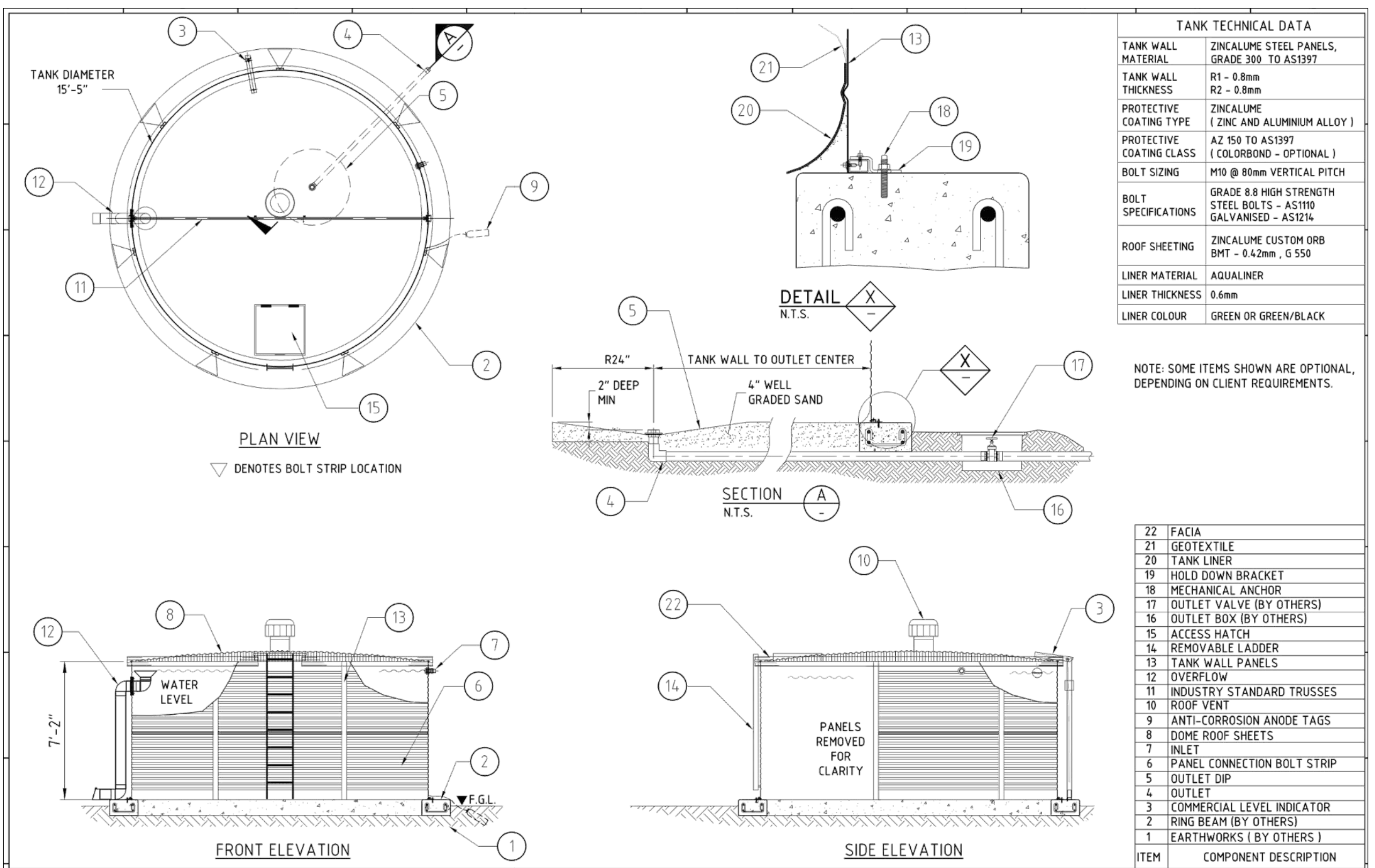


PROJECT / PERMIT # : _____
 REVISION _____
 NO. _____
 DATE _____

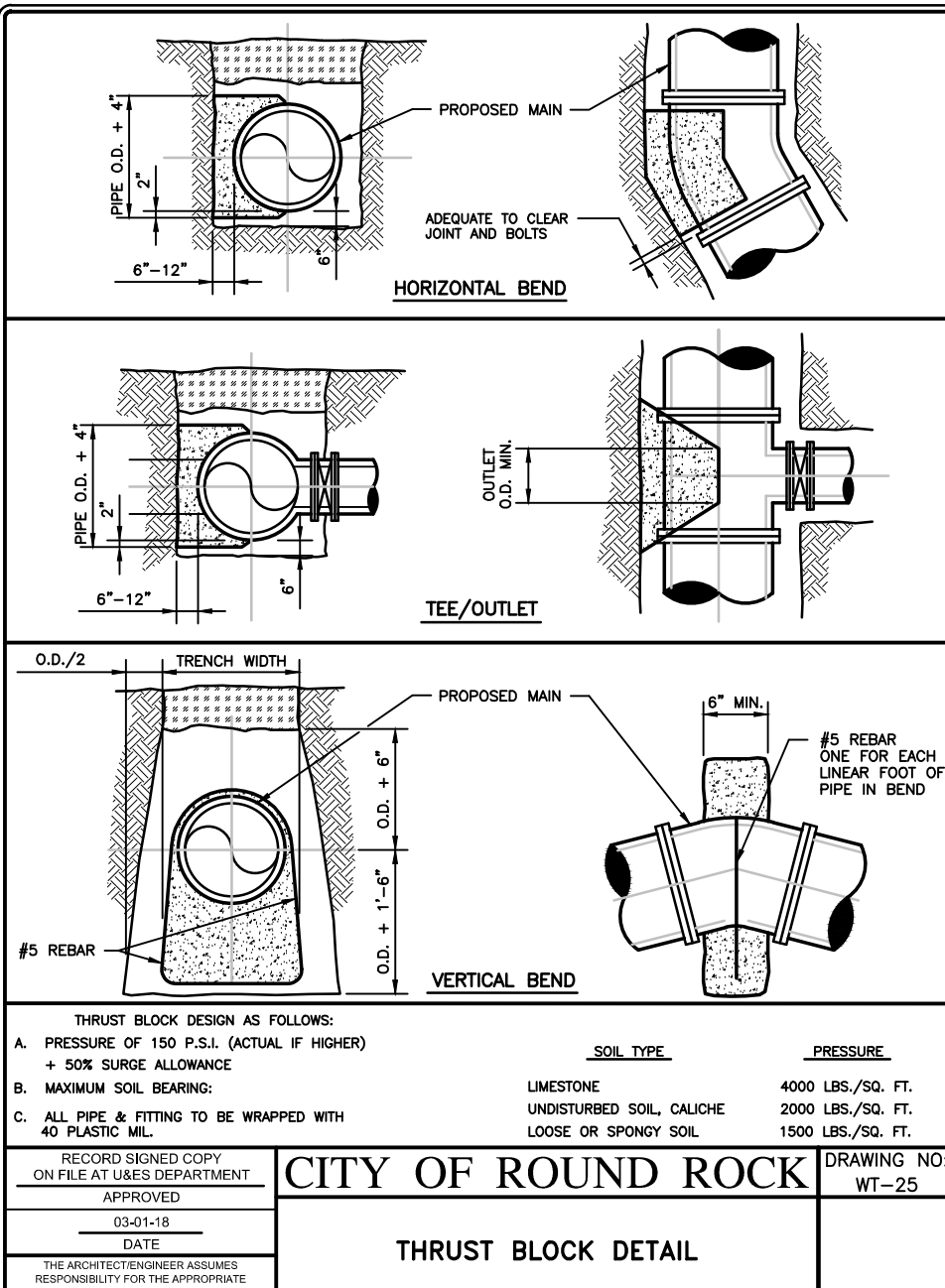
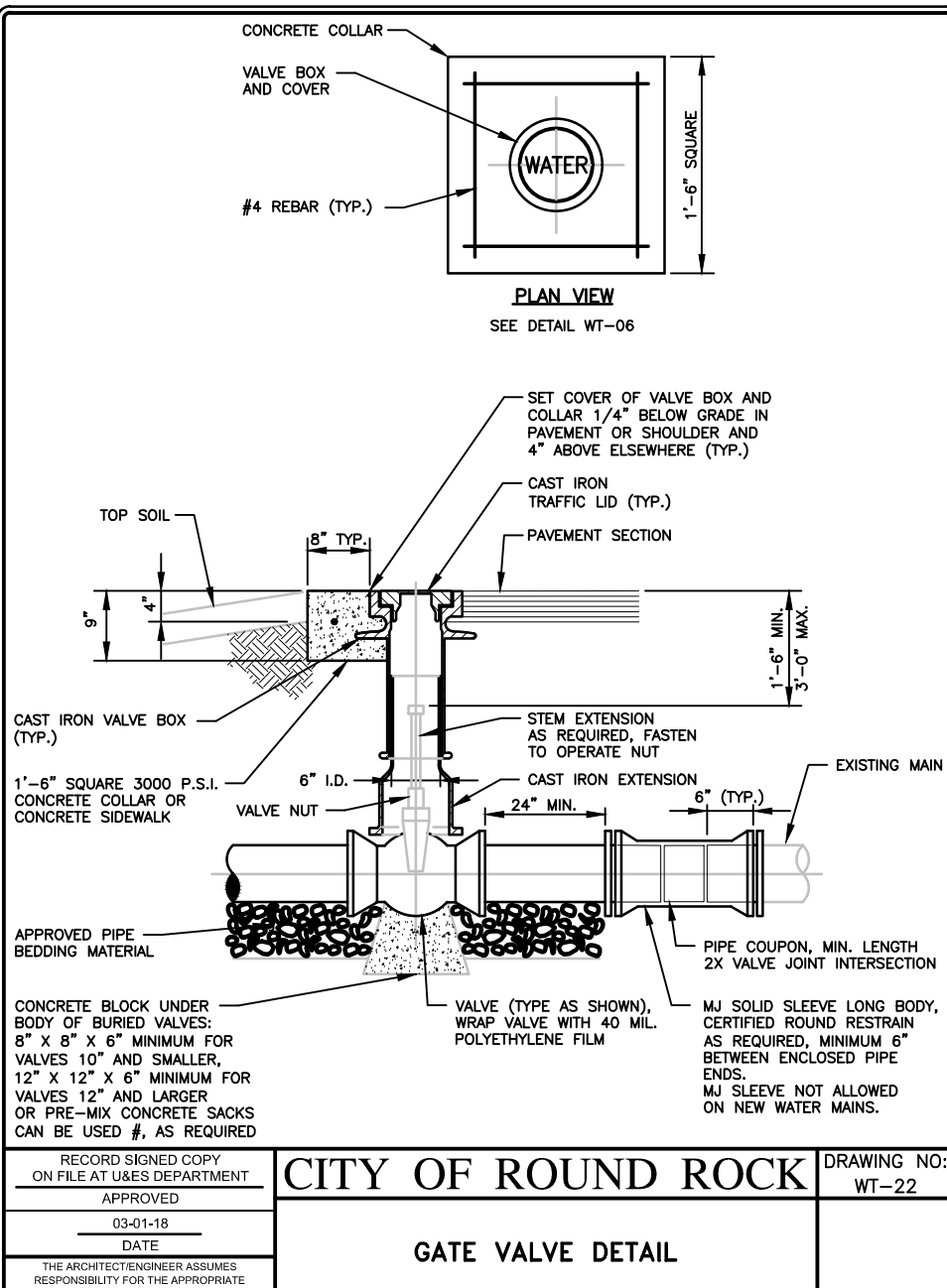
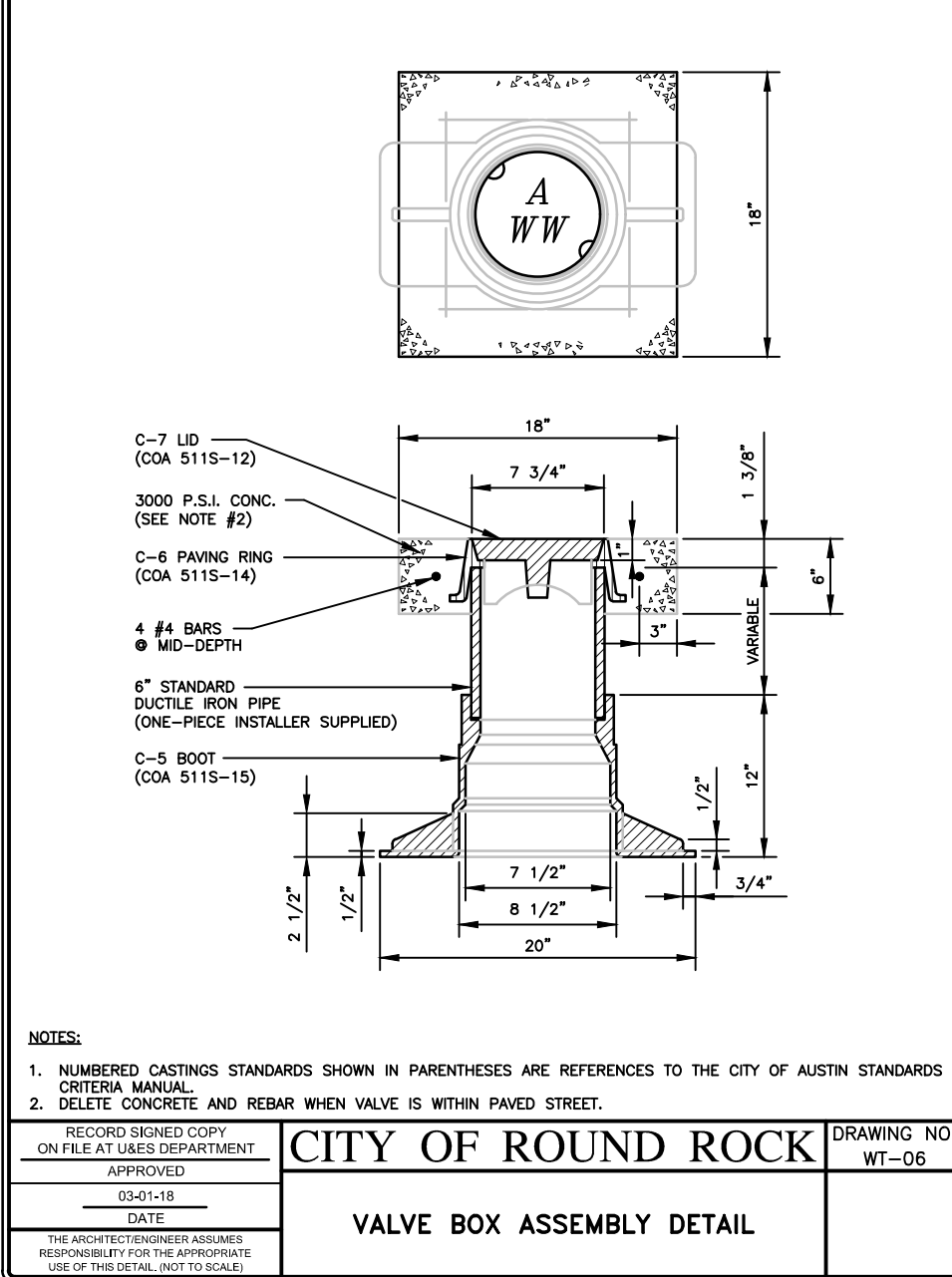
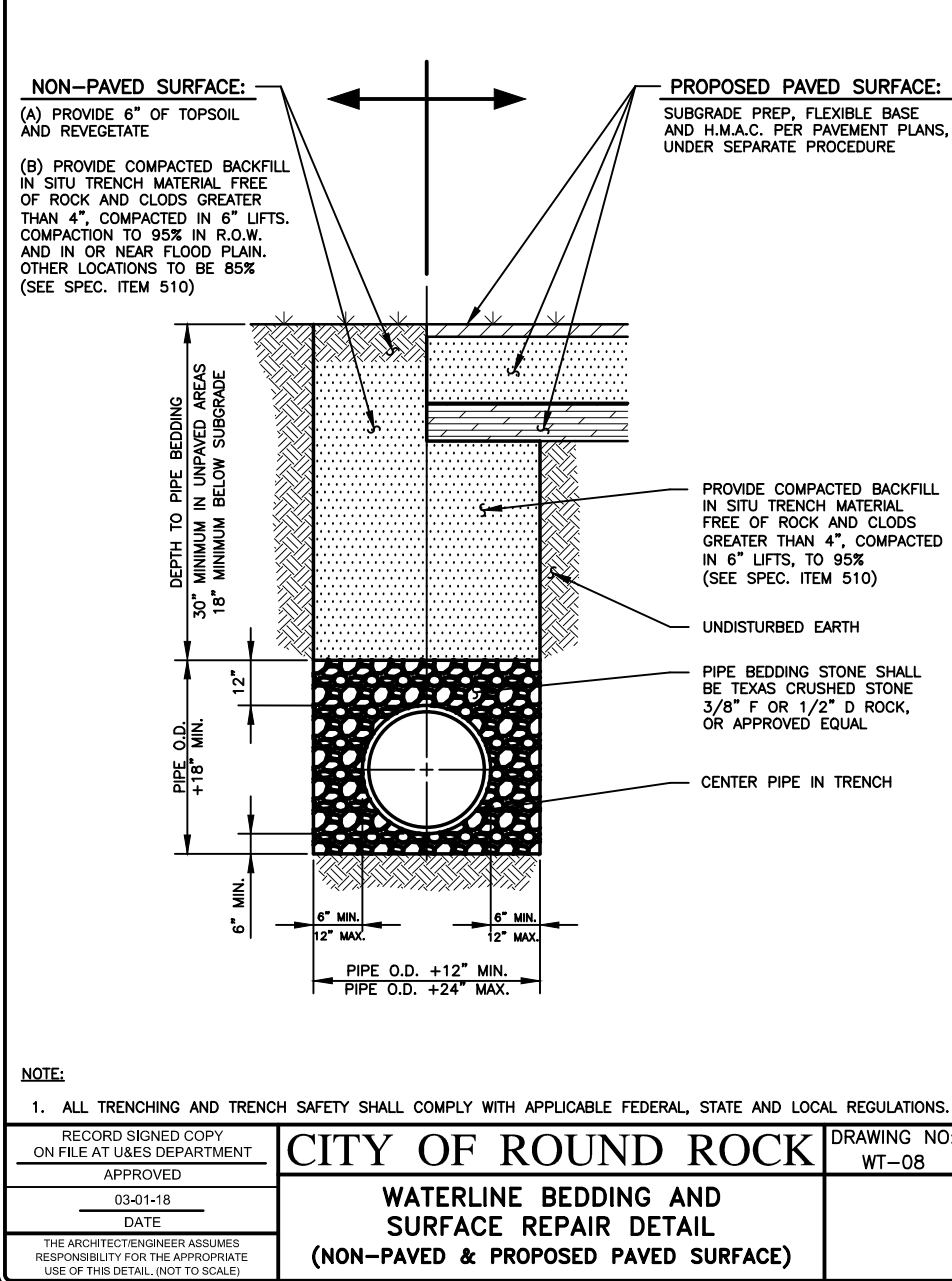
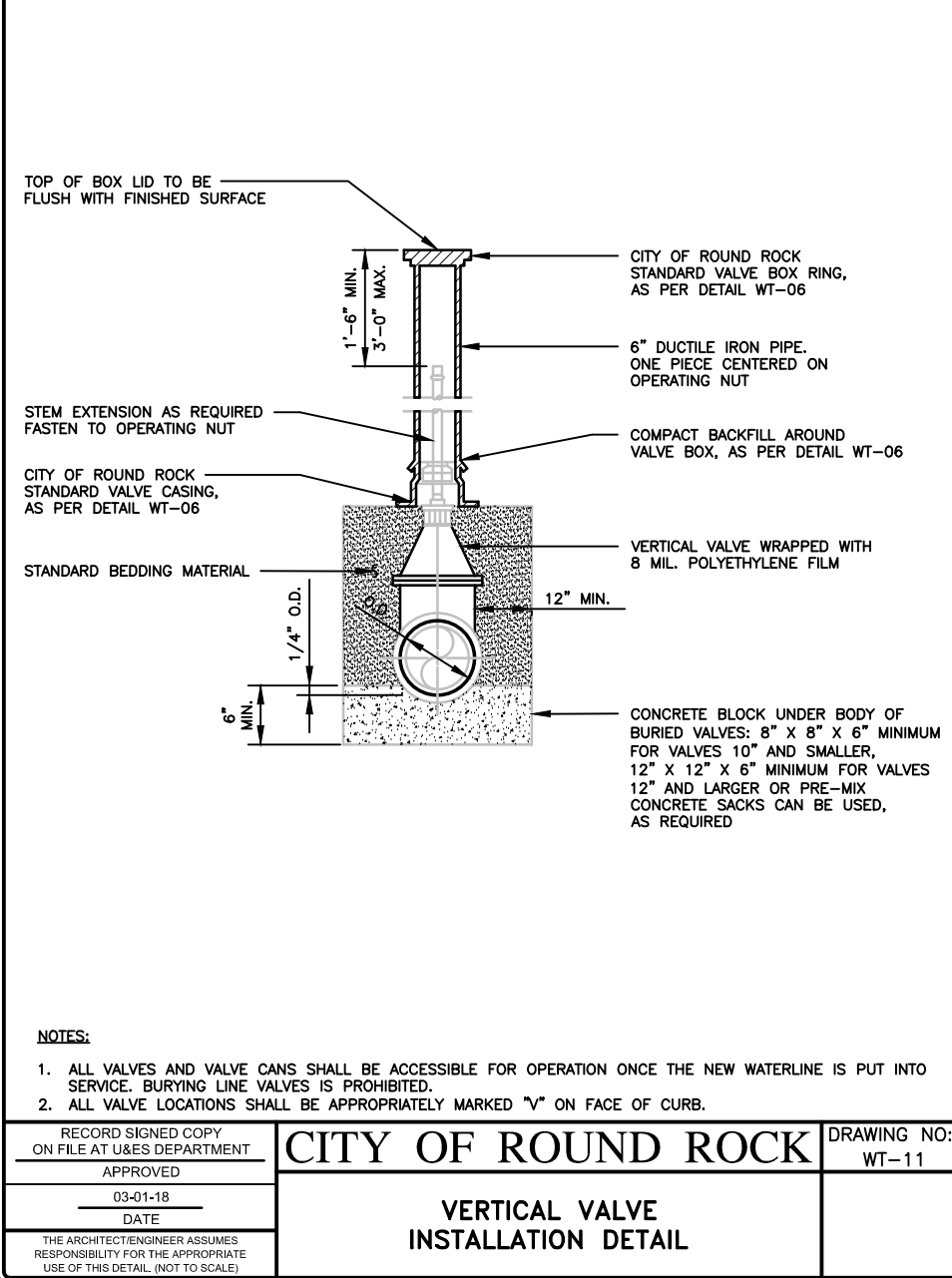
GARY ELI JONES
 79198
 REGISTERED PROFESSIONAL ENGINEER

Jun 14, 2023

ELI ENGINEERING
 TPELS FIRM No. 17877
 ELI ENGINEERING, PLLC.
 700 THERESA COVE, CEDAR PARK, TX 78613
 512-656-6005



GENERAL ARRANGEMENT LIGHT INDUSTRIAL PIONEER GALAXY XL08/02



WILLIAMSON COUNTY, TEXAS

BIG CHIEF STORAGE
SITE PLAN IMPROVEMENTS
STANDARD DETAILS (3 OF 3)

DRAWING SCALE: HORIZ. = N.T.S. VERT. = 1:1
 SURVEYED: _____
 FILE NAME: _____
 DATE: _____
 DRAWN: GEJ
 DESIGNED: EEI

SHEET **19** OF **19**

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment N-Inspection, Maintenance, Repair and Retrofit Plan**

To Whom It May Concern:

A plan for the inspection, maintenance, repair, and if necessary, retrofit of the permanent BMPs and measures is attached. It includes procedures for documenting inspections, maintenance, repairs, and if necessary, retrofits as well as record keeping procedures. The plan has been prepared and certified by the engineer that designed the permanent BMP and measures. The owner or responsible party has signed the plan.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment N-Inspection, Maintenance, Repair and Retrofit Plan**

To Mr. Oliver:

TCEQ requires the property owner to keep operation, maintenance, and inspections records of the BMP features including the grassy swale and batch detention pond.

General Guidelines:

- **Accessibility:** You should maintain accessibility to the BMP at all times. Equipment and personnel required to maintain and inspect the BMP should not be obstructed under reasonable conditions.
- **Material Disposal:** Stormwater pollutants include a variety of substances that are deposited in the BMP. Federal and state laws and regulations may apply to the disposal of substances removed from the BMP. In order to dispose of substances removed from the BMP you must 1) characterize the waste 2) classify the waste based on character 3) properly dispose the waste according to current state (30TAC 330 or 335) and federal rules (40 CFR Subchapter C or D). The sediment must be determined inert for on-site disposal.

At a minimum, you should keep written records indicating the following:

Subject	Frequency
Pest management	Develop an integrated pest management plan for vegetated areas. Specify how problem weeds and insects will be controlled with minimal or no use of insecticides and herbicides.
Inspect swales & filters	Twice per year, once after a major rainfall event.
Inspect outlet structure	Twice per year, once after a major rainfall event.
Mow and maintain area	As needed such that grass is less than 18" tall or twice per year.
Remove sediment	Remove sediment that reaches 3 inches in depth over any spot or covers vegetation. Replace eroded areas with compacted fill and re-seed as necessary to maintain

Maintenance Guidelines for Batch Detention Basins

Batch detention basins may have somewhat higher maintenance requirements than an extended detention basin since they are active stormwater controls. The maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet.

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

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

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

Erosion control. The basin side slopes and embankment all may periodically suffer from slumping and erosion. To correct these problems, corrective action, such as regrading and revegetation, may be necessary. Correction of erosion control should take place whenever required based on the periodic inspections.

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

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

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

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

All maintenance and repairs made to the BMP should be documented along with the inspection report.

Sincerely,

Concurrence & Acceptance:



Gary Eli Jones, P.E.



Terry Oliver



Firm # 17877

May 21, 2023

Ms. Lillian Butler
Texas Commission on Environmental Quality
12100 Park 35 Circle, Bld A, Rm 179
Austin, TX 78753

**Re: Big Chief Storage
Attachment P-Measures for Minimizing Surface Stream Contamination**

To Whom It May Concern:

The permanent BMP that is proposed on-site will provide measures to avoid or minimize surface stream contamination. The measures are shown in the construction drawings and include temporary E&S controls, as well as the permanent BMP (batch detention pond). The proposed impervious cover for the site is routed to the proposed batch detention pond discharged into the unnamed tributary which matches the current condition.

If you have any questions or need further assistance, please contact me at 512-658-8095.

Gary Eli Jones, P.E.
Authorized Agent

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: Gary Eli Jones, P.E.

Date: 8/15/23

Signature of Customer/Agent:

 _____

Regulated Entity Name: Big Chief Storage

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: San Gabriel 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.

ATTACHMENT "A"

Spill Response Actions

Occurrences contributing to a spill may occur during scheduled maintenance of construction equipment. There are no special potential sources of contamination with this site other than normal construction activities for site and building construction. Temporary BMPs including silt fence, rock berms, settling basin, and concrete washout will be on site prior to construction and monitored per SWPPP. Caution is to be exercised to prevent any existing ground surfaces, or new ground surfaces to become contaminated. Once the refueling staging area is no longer needed, the area is to be returned to its original condition, or better. Concrete curing compound and fuel leakage shall be contained downstream of the pond outlet structure. Contractor shall follow the steps below in preventing and responding to spills as outlined in TCEQ publication RG-348, *Technical Guidance on Best Management Practices* (Revised July 2005).

Spill Prevention and Control:

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

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

Education

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

General Measures

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from stormwater runoff during rainfall to the extent that it doesn't compromise clean up activities.

- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

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

Minor Spills

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

- (1) Contain spread of the spill.
- (2) Notify the project foreman immediately.
- (3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- (4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

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

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

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

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

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

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

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

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at:

<https://www.tceq.texas.gov/response/spills>.

Vehicle and Equipment Maintenance

(1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.

(2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately

(3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.

(4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.

(5) Place drip pans or absorbent materials under paving equipment when not in use.

(6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.

(7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.

(8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.

(9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

(1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.

(2) Discourage "topping off" of fuel tanks.

(3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

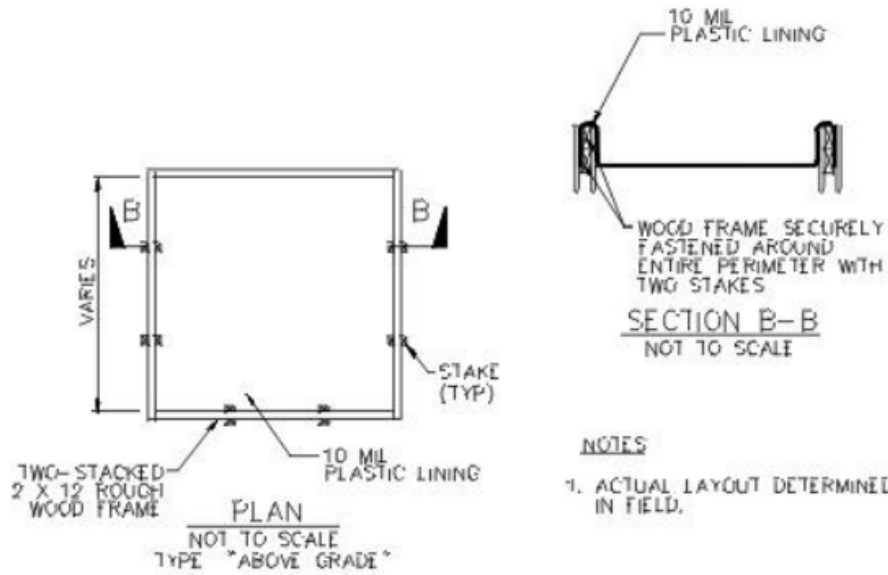
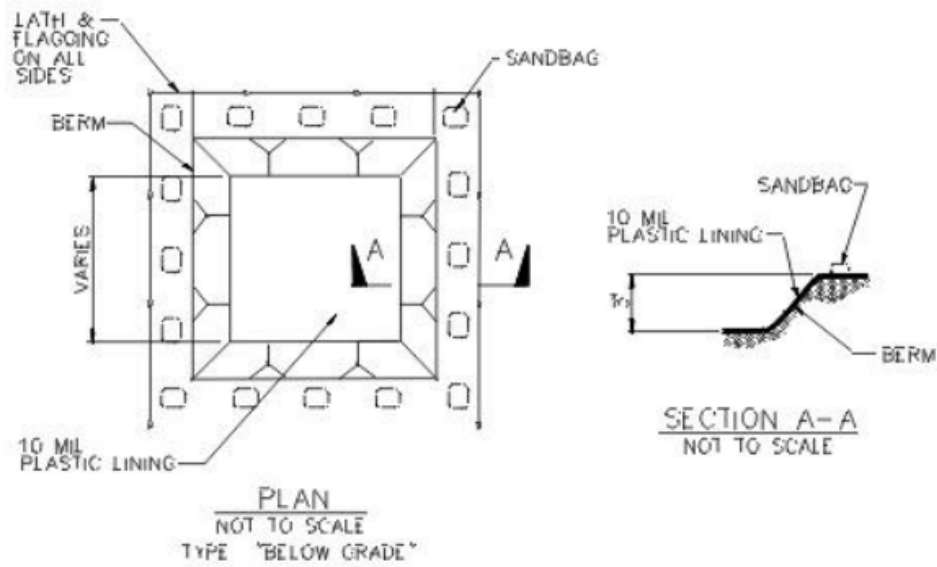
Concrete Washout Areas

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

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

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

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



NOTES
 1. ACTUAL LAYOUT DETERMINED IN FIELD.

Figure: Schematics of Concrete Washout Areas

ATTACHMENT “B”

Potential Sources of Contamination

Occurrences contributing to a spill may occur during scheduled maintenance of construction equipment. There are no special potential sources of contamination with this site other than normal construction activities for site and building construction. Temporary BMPs including construction entrance, silt fence and concrete washout will be on site prior to construction and monitored per SWPPP. Caution is to be exercised to prevent any existing ground surfaces, or new ground surfaces to become contaminated. Once the refueling staging area is no longer needed, the area is to be returned to its original condition, or better. Concrete curing compound and fuel leakage shall be contained downstream of the pond outlet structure. Contractor shall follow the steps below in preventing and responding to spills as outlined in TCEQ publication RG-348, *Technical Guidance on Best Management Practices* (Revised July 2005).

ATTACHMENT "C"

Sequence of Major Activities

<u>Description</u>	<u>Area (acres)</u>
1. Install all erosion control	3.73
2. Conduct pre-construction conference	N/A
3. Excavate ponds	0.30
4. Establish subgrade on site	1.36
5. Construct driveways and install all underground utilities	1.25
6. Process and compact subgrade to final grades	1.36
7. Install paving	1.07
8. Final grade ponds and outlet controls	0.30
9. Install all landscape and irrigation, re-vegetate all disturbed areas	1.66
10. Remove temporary erosion control subsequent to establishment of vegetation	2.227

ATTACHMENT “D”

Temporary Best Management Practices

Silt fence and J-hooks will be installed to intercept storm water runoff originating within the project, prior to discharge to existing drainage conveyances (Unnamed Creek). After installation, inlet protection will be installed on the grate inlets and maintained until the site re-vegetation is established.

A stabilized construction entrance will be installed to minimize construction vehicles transporting sediment onto neighboring roadways. Concrete washout per details will be maintained on-site for the concrete trucks to utilize after pours. There is no construction proposed in the unnamed creeks on the south side of the property.

ATTACHMENT “F”

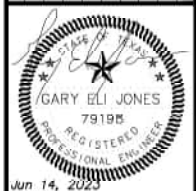
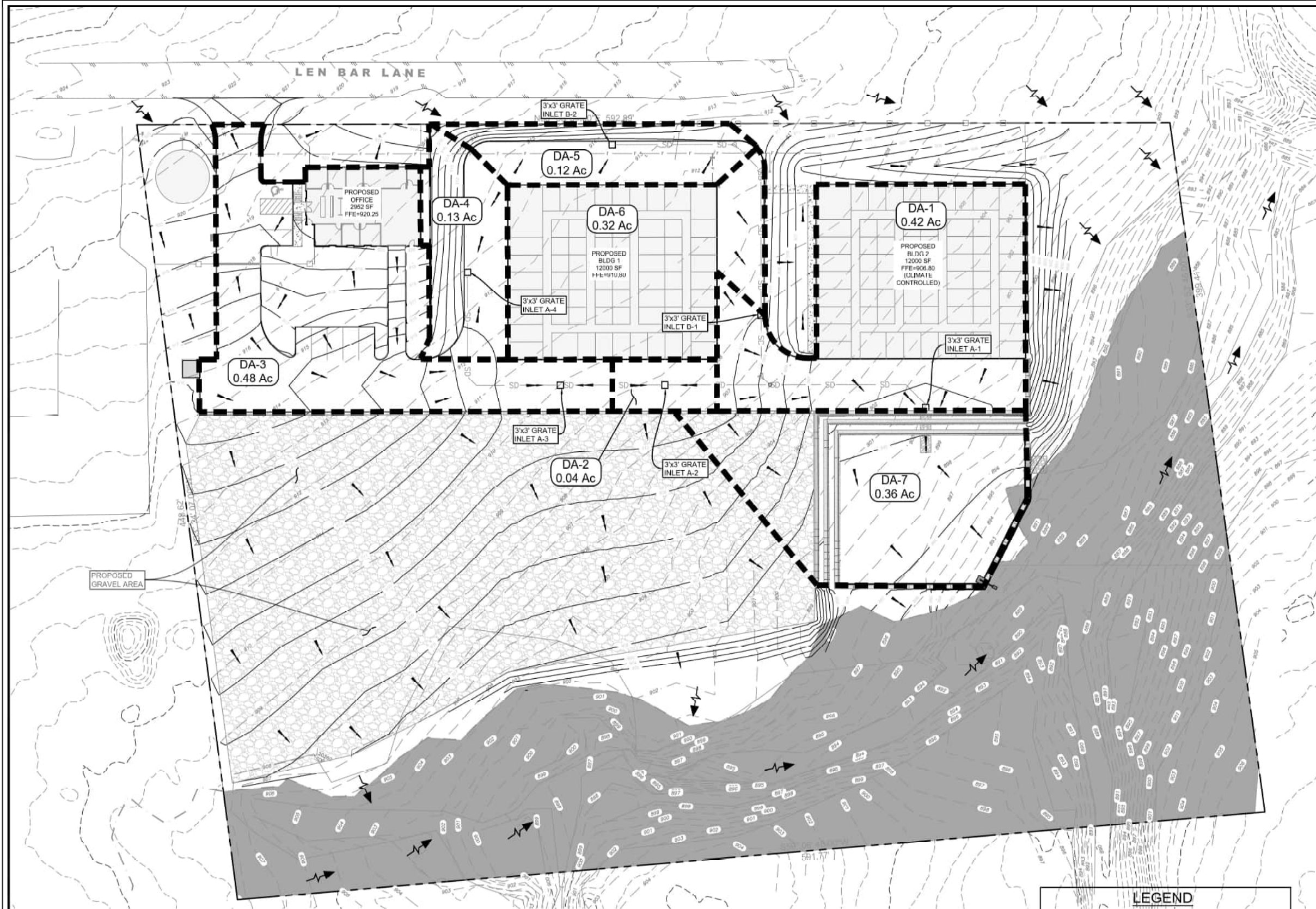
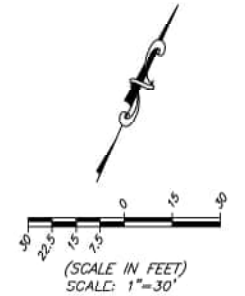
Structural Practices

No improvements are proposed to divert storm water run-off from its existing drainage pattern. All unpaved areas will be re-vegetated according to Williamson County & TCEQ Specifications for re-vegetation of disturbed areas.

ATTACHMENT “G”

Drainage Area Map

The total limits of construction for the project is 3.73 acres. The controlled drainage area of 1.88 acres shown on the attached Drainage Area Map (11 of 19) shows the areas that will be collected and conveyed to the water quality / detention pond. The remaining 1.85 acres of disturbed area will be covered with either a washed gravel or permanent vegetation. Erosion and sediment controls other than sediment basins or traps within the disturbed areas will be used.



Jun 14, 2023
 TPELS FIRM No. 1787
ELI ENGINEERING
 ELI ENGINEERING, PLLC.
 700 THERESA CIRCLE CEDAR PARK, TX 78613
 512-658-8028
 eli@elieng.com

WILLAMSON COUNTY, TEXAS
BIG CHIEF STORAGE
 SITE PLAN IMPROVEMENTS
 PROPOSED DRAINAGE AREA MAP

DRAWING SCALE: HORIZ. = VERT. =
 SURVEYED: FILE NAME:
 DATE: DRAWN: (EJ)
 DESIGNED: ED

SHEET
11
 OF
19

- NOTES:**
- 1) REFER TO SHEET 12 FOR DRAINAGE AND INLET CALIBRATIONS
 - 2) REFER TO SHEET 14-16 FOR DETENTION POND PLAN, CALCULATIONS AND DETAILS.
 - 2) REFER TO SHEET 9 FOR GRADING PLAN.
 - 3) REFER TO SHEET 13 FOR STORM SEWER PLAN AND PROFILE.

LEGEND

- PROPOSED DRAINAGE AREA BOUNDARY
- - - EXISTING Tc FLOW PATH
- █ EXISTING FEMA ZONE 'A'
- ZZ
0.0 Ac DRAINAGE AREA LABEL
- ← EXISTING FLOW DIRECTION
- PROPOSED FLOW DIRECTION
- ▨ PROPOSED GRAVEL AREA

C:\Users\jones\Documents\Projects\Big Chief Storage\Drawings\Site Plan\Drawings\Map\Map.dwg, Jun 14, 2023 2:25:40 PM

THIS AREA IS RESERVED FOR FUTURE CITY APPROVAL STAMP

STAGE / STORAGE			
Contour Elevation	Contour Area (sq. ft)	Incremental Volume Avg. End (cu. ft)	Cumulative Volume Avg. End (cu. ft)
893.15	0	0	0
893.5	400.14	70.02	70.02
894	2,233.80	658.48	728.50
894.5	5,297.36	1882.8	2611.30
894.85			4960.00
895	8,124.00	3355.34	5966.64
895.5	8,561.05	4171.26	10137.90
896	8,640.00	4300.47	14438.37
896.5	9,244.37	4471.3	18909.67

TOTAL AREA TO	SF	AC
POND	81,770	1.88
TOTAL LC.	57,713	1.32
% IC TO POND		71%

BIG CHIEF Rational Method Runoff Calculations										
AREA	ACREAGE (ac.)	TIME OF CONCENTRATION (min.)	RAINFALL INTENSITY (in/hr)		RUNOFF COEFFICIENT		Q 2 (cfs)	Q 10 (cfs)	Q 25 (cfs)	Q 100 (cfs)
			2 YR	10 YR	2 YR	10 YR				
DA-01	0.42	10.00	4.59	7.18	0.75	0.83	1.46	2.53		
DA-02	0.04	10.00	4.59	7.18	0.75	0.83	0.14	0.25		
DA-03	0.31	10.00	4.59	7.18	0.60	0.73	0.96	1.62		
DA-04	0.05	10.00	4.59	7.18	0.18	0.26	0.04	0.09		
DA-05	0.28	10.00	4.59	7.18	0.18	0.26	0.23	0.52		
DA-06	0.32	10.00	4.59	7.18	0.57	0.83	0.84	1.92		

AREA	ACREAGE (ac.)	TIME OF CONCENTRATION (min.)	RAINFALL INTENSITY (in/hr)		RUNOFF COEFFICIENT		Q 25 (cfs)	Q 100 (cfs)
			25 YR	100 YR	25 YR	100 YR		
DA-01	0.42	10.00	8.710	11.15	0.88	0.97	3.25	4.59
DA-02	0.04	10.00	8.71	11.15	0.88	0.97	0.32	0.45
DA-03	0.48	10.00	8.71	11.15	0.78	0.87	3.25	4.62
DA-04	0.13	10.00	8.71	11.15	0.28	0.31	0.31	0.45
DA-05	0.12	10.00	8.71	11.15	0.28	0.31	0.30	0.43
DA-06	0.32	10.00	8.71	11.15	0.88	0.97	2.47	3.49

BIG CHIEF STORM DRAIN - RUNOFF COEFFICIENTS											
Rational Method	PROPOSED	Area (SF)	Area (Ac)	C2	C10	C25	C100	COMPOSITE			
								C2	C10	C25	C100
DA-01	Grass/Pasture	0	0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	6,493	0.15	0.75	0.83	0.88	0.97	0.26	0.29	0.31	0.34
	Roof	12,000	0.28	0.75	0.83	0.88	0.97	0.49	0.54	0.57	0.63
		18,493	0.42					0.75	0.83	0.88	0.97
DA-02	Grass/Pasture		0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	1,799	0.04	0.75	0.83	0.88	0.97	0.75	0.83	0.88	0.97
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		1,799	0.04					0.75	0.83	0.88	0.97
DA-03	Grass/Pasture	4,479	0.10	0.33	0.38	0.42	0.49	0.08	0.08	0.09	0.11
	Pavement	13,407	0.31	0.75	0.83	0.88	0.97	0.48	0.53	0.57	0.62
	Roof	2,952	0.07	0.75	0.83	0.88	0.97	0.12	0.12	0.12	0.14
		20,838	0.48					0.68	0.73	0.78	0.87
DA-04	Grass/Pasture	2,324	0.05	0.33	0.38	0.42	0.49	0.04	0.06	0.07	0.08
	Pavement	3,325	0.08	0.75	0.83	0.88	0.97	0.13	0.20	0.21	0.23
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		5,649	0.13					0.18	0.26	0.28	0.31
DA-05	Grass/Pasture	1,665	0.04	0.33	0.38	0.42	0.49	0.03	0.05	0.05	0.06
	Pavement	3,690	0.08	0.75	0.83	0.88	0.97	0.15	0.22	0.23	0.25
	Roof		0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		5,355	0.12					0.18	0.26	0.28	0.31
DA-06	Grass/Pasture		0.00	0.33	0.38	0.42	0.49	0.00	0.00	0.00	0.00
	Pavement	2,047	0.05	0.75	0.83	0.88	0.97	0.08	0.12	0.13	0.14
	Roof	12,000	0.28	0.75	0.83	0.88	0.97	0.49	0.71	0.75	0.83
		14,047	0.32					0.57	0.83	0.88	0.97
DA-07	Grass/Pasture	15,589	0.36	0.33	0.38	0.42	0.49	0.28	0.42	0.47	0.54
	Pavement	0	0.00	0.73	0.83	0.88	0.97	0.00	0.00	0.00	0.00
	Roof	0	0.00	0.75	0.83	0.88	0.97	0.00	0.00	0.00	0.00
		15,589	0.36					0.28	0.42	0.47	0.54

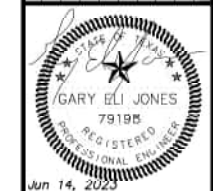
Rainfall Intensity-Duration-Frequency Coefficients for Texas

Based on "National Oceanic and Atmospheric Administration's (NOAA) Atlas 14 Precipitation Frequency Atlas of the United States, Volume 11 Version 2.0: Texas" (Poria et al. 2018)

Parameter Selection:
 1. Select Units: English
 2. Select Methodology: Annual Maximum Series (AMS)
 3. Select County: WILLIAMSON
 4. Select County Zone: Brushy Creek
 5. Select Time of Concentration (tc): 10 Minute

Coefficient	Design Annual Exceedance Probability (Design Annual Recurrence Interval)						
	50% (2-year)	20% (5-year)	10% (10-year)	4% (25-year)	2% (50-year)	1% (100-year)	0.2% (500-year)
a	0.8199	0.8067	0.7995	0.7919	0.7871	0.7824	0.7714
b	58.0957	74.5024	87.5700	105.8665	120.5981	136.6644	180.1476
d (min)	12.0992	12.4782	12.8449	13.4283	13.9095	14.6225	17.3300
Intensity (inches/hour)	4.59	6.05	7.18	8.71	9.91	11.15	14.04

Note: Williamson County has 4 rainfall zones. Williamson County uses customized IDF zones derived by the county. Since Williamson County county has more than 1 rainfall zone, consider using the accompanying Google Earth file to accurately locate a project.



Jun 14, 2023

TRB/EPLS FIRM No. 1787

ELI ENGINEERING

ELI ENGINEERING, PLLC.
 700 THERESA COVE, CEDAR PARK, TX 78613
 512-658-8028

WILLIAMSON COUNTY, TEXAS

BIG CHIEF STORAGE

SITE PLAN IMPROVEMENTS

PROPOSED DRAINAGE CALCULATIONS

HORIZ. =
 VERT. =

DRAWING SCALE:
 SURVEYED:
 FILE NAME:
 DATE:
 DRAWN: (GJ)
 DESIGNED: (ED)

SHEET

12

OF

19

ATTACHMENT "I"

Inspection & Maintenance for Temporary BMPs

SUMMARY OF EROSION AND SEDIMENT CONTROL MAINTENANCE/INSPECTION PROCEDURES

Silt Fence Inspection and Maintenance Guidelines:

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

Inlet Protection Inspection and Maintenance Guidelines:

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

Temporary Construction Entrance/Exit Inspection and Maintenance Guidelines:

- (1) The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
 - (2) All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.
 - (3) When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.
 - (4) When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
 - (5) All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
 - A maintenance inspection report will be made after each inspection. A copy of the report forms to be used are included in this WPAP.
 - The site job superintendent will select the individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance

reports.

- Personnel selected for inspection and maintenance responsibilities will receive training from the site job superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

FINAL STABILIZATION/TERMINATION CHECKLIST

1. All soil disturbing activities are complete
2. Temporary erosion and sediment control measures have been removed or will be removed at an appropriate time.
3. All areas of the construction site not otherwise covered by a permanent pavement or structure have been stabilized with a uniform perennial vegetative cover with a density of 70% or equivalent measures have been employed.

INSPECTION AND MAINTENANCE REPORT FORM

STABILIZATION MEASURES

INSPECTOR: _____ DATE: _____

QUALIFICATIONS OF INSPECTOR:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____

AREA	DATE SINCE LAST RAINFALL	DATE OF NEXT DISTURBANCE	STABILIZED? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

INSPECTION AND MAINTENANCE REPORT FORM

SILT FENCE

INSPECTOR: _____ DATE: _____

QUALIFICATIONS OF INSPECTOR:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____

IS THE BOTTOM OF THE FABRIC STILL BURIED? _____

IS THE FABRIC TORN OR SAGGING? _____

ARE THE POSTS TIPPED OVER? _____

HOW DEEP IS THE SEDIMENT? _____

MAINTENANCE REQUIRED FOR SILT FENCE: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

INSPECTION AND MAINTENANCE REPORT FORM

STABILIZED CONSTRUCTION EXIT

INSPECTOR: _____ DATE: _____

QUALIFICATIONS OF INSPECTOR:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD? _____

IS THE GRAVEL CLEAN OR FILLED WITH SEDIMENT? _____

DOES ALL TRAFFIC USE THE STABILIZED EXIT TO LEAVE THE JOB SITE? _____

IS THE CULVERT BENEATH THE EXIT WORKING? _____

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION EXIT: _____

TO BE PERFORMED BY: _____ ON OR BEFORE: _____

ATTACHMENT “J”

Schedule of Interim and Permanent Soil Stabilization Practices

All areas within the project limits that are disturbed during construction will be revegetated and restabilized immediately following construction activities. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 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 temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.



Notice of Intent (NOI) for an Authorization for Stormwater Discharges Associated with Construction Activity under TPDES General Permit TXR150000

IMPORTANT INFORMATION

Please read and use the General Information and Instructions prior to filling out each question in the NOI form.

Use the NOI Checklist to ensure all required information is completed correctly.

Incomplete applications delay approval or result in automatic denial.

Once processed your permit authorization can be viewed by entering the following link into your internet browser: http://www2.tceq.texas.gov/wq_dpa/index.cfm or you can contact TCEQ Stormwater Processing Center at 512-239-3700.

ePERMITS

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

To submit an NOI electronically, enter the following web address into your internet browser and follow the instructions: <https://www3.tceq.texas.gov/steers/index.cfm>

APPLICATION FEE AND PAYMENT

The application fee for submitting a paper NOI is \$325. The application fee for electronic submittal of a NOI through the TCEQ ePermits system (STEERS) is \$225.

Payment of the application fee can be submitted by mail or through the TCEQ ePay system. The payment and the NOI must be mailed to separate addresses. To access the TCEQ ePay system enter the following web address into your internet browser: <http://www.tceq.texas.gov/epay>.

Provide your payment information for verification of payment:

- If payment was mailed to TCEQ, provide the following:
 - Check/Money Order Number: [REDACTED]
 - Name printed on Check: [REDACTED]
- If payment was made via ePay, provide the following:
 - Voucher Number: [REDACTED]
 - A copy of the payment voucher is attached to this paper NOI form.

RENEWAL (This portion of the NOI is not applicable after June 3, 2018)

Is this NOI for a renewal of an existing authorization? Yes No

If Yes, provide the authorization number here: TXR15 [REDACTED]

NOTE: If an authorization number is not provided, a new number will be assigned.

SECTION 1. OPERATOR (APPLICANT)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? CN [REDACTED]

(Refer to Section 1.a) of the Instructions)

b) What is the Legal Name of the entity (applicant) applying for this permit? (The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

Big Chief Storage, LLC

c) What is the contact information for the Operator (Responsible Authority)?

Prefix (Mr. Ms. Miss): Mr. [REDACTED]

First and Last Name: Terry Oliver Suffix: [REDACTED]

Title: Owner Credentials: [REDACTED]

Phone Number: 512-280-3388 Fax Number: [REDACTED]

E-mail: TOliver@apachemoving.net

Mailing Address: 250 North Bagdad Rd

City, State, and Zip Code: Leander, TX 78641

Mailing Information if outside USA:

Territory: [REDACTED]

Country Code: [REDACTED] Postal Code: 78641

d) Indicate the type of customer:

- Individual
- Limited Partnership
- General Partnership
- Trust
- Sole Proprietorship (D.B.A.)
- Corporation
- Estate
- Federal Government
- County Government
- State Government
- City Government
- Other Government
- Other: [REDACTED]

e) Is the applicant an independent operator? Yes No

(If a governmental entity, a subsidiary, or part of a larger corporation, check No.)

f) Number of Employees. Select the range applicable to your company.

0-20

251-500

21-100

501 or higher

101-250

g) Customer Business Tax and Filing Numbers: (**Required** for Corporations and Limited Partnerships. **Not Required** for Individuals, Government, or Sole Proprietors.)

State Franchise Tax ID Number: 32083311210

Federal Tax ID:

Texas Secretary of State Charter (filing) Number: 0804443234

DUNS Number (if known):

SECTION 2. APPLICATION CONTACT

Is the application contact the same as the applicant identified above?

Yes, go to Section 3

No, complete this section

Prefix (Mr. Ms. Miss): Mr

First and Last Name: GARY ELI JONES, P.E. Suffix:

Title: Member Credential:

Organization Name: ELI ENGINEERING, PLLC

Phone Number: 512-658-8095 Fax Number:

E-mail: gejtexas@gmail.com

Mailing Address: 700 Theresa Cove

Internal Routing (Mail Code, Etc.):

City, State, and Zip Code: Cedar Park, Texas 78613

Mailing information if outside USA:

Territory:

Country Code: Postal Code:

SECTION 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) If this is an existing permitted site, what is the Regulated Entity Number (RN) issued to this site? RN

(Refer to Section 3.a) of the Instructions)

- b) Name of project or site (the name known by the community where it's located):
Big Chief Storage
- c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other): Commercial
- d) County or Counties (if located in more than one): Williamson
- e) Latitude: 30.605532 Longitude: -97.841909
- f) Site Address/Location

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete *Section A*.

If the site does not have a physical address, provide a location description in *Section B*.
Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section A:

Street Number and Name: 200 Len Bar Lane

City, State, and Zip Code: Leander, TX 78641

Section B:

Location Description:

City (or city nearest to) where the site is located:

Zip Code where the site is located:

SECTION 4. GENERAL CHARACTERISTICS

- a) Is the project or site located on Indian Country Lands?
 - Yes, do not submit this form. You must obtain authorization through EPA Region 6.
 - No
- b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
 - Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.
 - No
- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? 4214
- d) What is the Secondary SIC Code(s), if applicable?
- e) What is the total number of acres to be disturbed? 3.73
- f) Is the project part of a larger common plan of development or sale?

Yes

No. The total number of acres disturbed, provided in e) above, must be 5 or more. If the total number of acres disturbed is less than 5, do not submit this form. See the requirements in the general permit for small construction sites.

g) What is the estimated start date of the project? Nov, 2023

h) What is the estimated end date of the project? Aug, 2024

i) Will concrete truck washout be performed at the site? Yes No

j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? Unnamed Trib to S San Gabriel

k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? 1214

l) Is the discharge into a Municipal Separate Storm Sewer System (MS4)?

Yes No

If Yes, provide the name of the MS4 operator: Williamson County

Note: The general permit requires you to send a copy of this NOI form to the MS4 operator.

m) Is the discharge or potential discharge from the site within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?

Yes, complete the certification below.

No, go to Section 5

I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented. Yes

SECTION 5. NOI CERTIFICATION

a) I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000). Yes

b) I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. Yes

c) I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. Yes

d) I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the Construction General Permit (TXR150000). Yes

Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3, provided all obligations are confirmed by at least one operator.

SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name: [REDACTED]

Operator Signatory Title: [REDACTED]

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 gather and evaluate 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature (use blue ink): _____ Date: _____

NOTICE OF INTENT CHECKLIST (TXR150000)

Did you complete everything? Use this checklist to be sure!

Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

Confirm each item (or applicable item) in this form is complete. This checklist is for use by the applicant to ensure a complete application is being submitted. **Missing information may result in denial of coverage under the general permit.** (See NOI process description in the General Information and Instructions.)

APPLICATION FEE

If paying by check:

- Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)
- Check number and name on check is provided in this application.

If using ePay:

- The voucher number is provided in this application and a copy of the voucher is attached.

RENEWAL

- If this application is for renewal of an existing authorization, the authorization number is provided.

OPERATOR INFORMATION

- Customer Number (CN) issued by TCEQ Central Registry
- Legal name as filed to do business in Texas. (Call TX SOS 512-463-5555 to verify.)
- Name and title of responsible authority signing the application.
- Phone number and e-mail address
- Mailing address is complete & verifiable with USPS. www.usps.com
- Type of operator (entity type). Is applicant an independent operator?
- Number of employees.
- For corporations or limited partnerships - Tax ID and SOS filing numbers.
- Application contact and address is complete & verifiable with USPS. <http://www.usps.com>

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

- Regulated Entity Number (RN) (if site is already regulated by TCEQ)
- Site/project name and construction activity description
- County
- Latitude and longitude <http://www.tceq.texas.gov/gis/sqmaview.html>

- Site Address/Location. Do not use a rural route or post office box.

GENERAL CHARACTERISTICS

- Indian Country Lands -the facility is not on Indian Country Lands.
- Construction activity related to facility associated to oil, gas, or geothermal resources
- Primary SIC Code that best describes the construction activity being conducted at the site.
www.osha.gov/oshstats/sicser.html
- Estimated starting and ending dates of the project.
- Confirmation of concrete truck washout.
- Acres disturbed is provided and qualifies for coverage through a NOI.
- Common plan of development or sale.
- Receiving water body or water bodies.
- Segment number or numbers.
- MS4 operator.
- Edwards Aquifer rule.

CERTIFICATION

- Certification statements have been checked indicating Yes.
- Signature meets 30 Texas Administrative Code (TAC) §305.44 and is original.

Instructions for Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

By Regular Mail:

TCEQ

Stormwater Processing Center (MC228)

P.O. Box 13087

Austin, Texas 78711-3087

By Overnight or Express Mail:

TCEQ

Stormwater Processing Center (MC228)

12100 Park 35 Circle

Austin, TX

Application Fee:

The application fee of \$325 is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit. Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

Mailed Payments:

Use the attached General Permit Payment Submittal Form. The application fee is submitted to a different address than the NOI. Read the General Permit Payment Submittal Form for further instructions, including the address to send the payment.

ePAY Electronic Payment: <http://www.tceq.texas.gov/epay>

When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

TCEQ Contact List:

Application - status and form questions:

512-239-3700, swpermit@tceq.texas.gov

Technical questions:

512-239-4671, swgp@tceq.texas.gov

Environmental Law Division:

512-239-0600

Records Management - obtain copies of forms:

512-239-0900

Reports from databases (as available):

512-239-DATA (3282)

Cashier's office:

512-239-0357 or 512-239-0187

Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

- **Administrative Review:** Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(es) on the form must be verified with the US Postal service as receiving regular mail delivery. Do not give an overnight/express mailing address.

- **Notice of Deficiency:** If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit. -97.841909

or

Denial of Coverage: If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

General Permit (Your Permit)

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs, provisional coverage under the general permit begins **7 days after a completed NOI is postmarked for delivery** to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site <http://www.tceq.texas.gov>. Search using keyword TXR150000.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated project or site changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number, if one has not already been assigned to this customer or site.

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser: <http://www15.tceq.texas.gov/crpub/> or you can contact the TCEQ Stormwater Processing Center at 512-239-3700 for assistance. On the website, you can search by your permit number, the Regulated Entity (RN) number, or the Customer Number (CN). If you do not know these numbers, you can select "Advanced Search" to search by permittee name, site address, etc.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For this permit, a Notice of Change form must be submitted to the program area.

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

Renewal of General Permit. Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied, a new permit number will be issued.

Section 1. OPERATOR (APPLICANT)

a) Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number.**

If the applicant is an existing TCEQ customer, the Customer Number is available at the following website: <http://www15.tceq.texas.gov/crpub/>. If the applicant is not an existing TCEQ customer, leave the space for CN blank.

b) Legal Name of Applicant

Provide the current legal name of the applicant. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, as filed in the county. You may contact the SOS at 512-463-5555, for more information related to filing in Texas. If filed in the county, provide a copy of the legal documents showing the legal name.

c) Contact Information for the Applicant (Responsible Authority)

Provide information for the person signing the application in the Certification section. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: <https://tools.usps.com/go/ZipLookupAction!input.action>.

The phone number should provide contact to the applicant.

The fax number and e-mail address are optional and should correspond to the applicant.

d) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for an authorization.

Individual

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

Partnership

A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). If the customer is a 'General Partnership' or 'Joint Venture' filed in the county (not filed with TX SOS), the legal name of each partner forming the 'General Partnership' or 'Joint Venture' must be provided. Each 'legal entity' must apply as a co-applicant.

Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

Sole Proprietorship (DBA)

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

1. be under the person's name
2. have its own name (doing business as or DBA)
3. have any number of employees.

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

Corporation

A customer that meets all of these conditions:

1. is a legally incorporated entity under the laws of any state or country
2. is recognized as a corporation by the Texas Secretary of State
3. has proper operating authority to operate in Texas

The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

Government

Federal, state, county, or city government (as appropriate)

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization is not recognized as the 'legal name'.

Other

This may include a utility district, water district, tribal government, college district, council of governments, or river authority. Provide the specific type of government.

e) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

f) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

g) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter the Tax ID number.

Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512-463-5555.

DUNS Number

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

Section 2. APPLICATION CONTACT

Provide the name and contact information for the person that TCEQ can contact for additional information regarding this application.

Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) Regulated Entity Number (RN)

The RN is issued by TCEQ's Central Registry to sites where an activity is regulated by TCEQ. This is not a permit number, registration number, or license number. Search TCEQ's Central Registry to see if the site has an assigned RN at <http://www15.tceq.texas.gov/crpub/>. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, an RN may already be assigned for the larger site. Use the RN assigned for the larger site.

If the site is found, provide the assigned RN and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

b) Name of the Project or Site

Provide the name of the site or project as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

c) Description of Activity Regulated

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

d) County

Provide the name of the county where the site or project is located. If the site or project is located in more than one county, provide the county names as secondary.

e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to:

<http://www.tceq.texas.gov/gis/sqmapview.html>.

f) Site Address/Location

If a site has an address that includes a street number and street name, enter the complete address for the site in *Section A*. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street number and street name, provide a complete written location description in *Section B*. For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and zip code of the site location.

Section 4. GENERAL CHARACTERISTICS

a) Indian Country Lands

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA Region 6, Dallas. Do not submit this form to TCEQ.

b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas (RRC) and may need to obtain authorization from EPA Region 6.

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a

carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. § 1342(l)(2) and § 1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under § 3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

For more information about the jurisdictions of the RRC and the TCEQ, read the Memorandum of Understanding (MOU) between the RRC and TCEQ at 16 Texas Administrative Code, Part 1, Chapter 3, Rule 3.30, by entering the following link into an internet browser:

[http://texreg.sos.state.tx.us/public/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30](http://texreg.sos.state.tx.us/public/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30) or contact the TCEQ Stormwater Team at 512-239-4671 for additional information.

c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 - Construction of Single Family Homes
- 1522 - Construction of Residential Buildings Other than Single Family Homes
- 1541 - Construction of Industrial Buildings and Warehouses

- 1542 - Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 - Highway and Street Construction, except Highway Construction
- 1622 - Bridge, Tunnel, and Elevated Highway Construction
- 1623 - Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser: <http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Local Government Assistance Section at 800-447-2827 for assistance.

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser: <http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Environmental Assistance Section at 800-447-2827 for assistance.

e) Total Number of Acres Disturbed

Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at 512-239-4671 or by email at swgp@tceq.texas.gov.

f) Common Plan of Development

Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on what a common plan of development is, refer to the definition of “Common Plan of Development” in the Definitions section of the general permit or enter the following link into your internet browser:

www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

For further information, go to the TCEQ stormwater construction webpage enter the following link into your internet browser: www.tceq.texas.gov/goto/construction and search for “Additional Guidance and Quick Links”. If you have any further questions about the Common Plan of Development you can contact the TCEQ Stormwater Team at 512-239-4671 or the TCEQ Small Business and Environmental Assistance at 800-447-2827.

g) Estimated Start Date of the Project

This is the date that any construction activity or construction support activity is initiated at the site. If renewing the permit provide the original start date of when construction activity for this project began.

h) Estimated End Date of the Project

This is the date that any construction activity or construction support activity will end and final stabilization will be achieved at the site.

i) Will concrete truck washout be performed at the site?

Indicate if you expect that operators of concrete trucks will washout concrete trucks at the construction site.

j) Identify the water body(s) receiving stormwater runoff

The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

k) Identify the segment number(s) of the classified water body(s)

Identify the classified segment number(s) receiving a discharge directly or indirectly. Enter the following link into your internet browser to find the segment number of the classified water body where stormwater will flow from the site:

www.tceq.texas.gov/waterquality/monitoring/viewer.html or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

You may also find the segment number in TCEQ publication GI-316 by entering the following link into your internet browser: www.tceq.texas.gov/publications/gi/gi-316 or by contacting the TCEQ Water Quality Division at (512) 239-4671 for assistance.

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at 512-239-4671 for further assistance.

l) Discharge into MS4 - Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a

copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512-239-4671.

m) Discharges to the Edwards Aquifer Recharge Zone and Certification

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer by entering the following link into an internet browser:

www.tceq.texas.gov/field/eapp/viewer.html or by contacting the TCEQ Water Quality Division at 512-239-4671 for assistance.

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site-specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

Section 5. NOICERTIFICATION

Note: Failure to indicate Yes to all of the certification items may result in denial of coverage under the general permit.

a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. Electronic applications submitted through ePermits have immediate provisional coverage. You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site by entering the following link into an internet browser: www.tceq.texas.gov/goto/construction or you may contact the TCEQ Stormwater processing Center at 512-239-3700 for assistance.

b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512-463 5555, for more information related to filing in Texas.

c) Understanding of Notice of Termination

A permittee shall terminate coverage under the Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has

been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

Section 6. APPLICANT CERTIFICATION SIGNATURE

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

If you are a corporation:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

If you are a municipality or other government entity:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at 512-239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the

corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

Texas Commission on Environmental Quality General Permit Payment Submittal Form

Use this form to submit your Application Fee only if you are mailing your payment.

Instructions:

-97.84

- Complete items 1 through 5 below:
- Staple your check in the space provided at the bottom of this document.
- *Do not mail this form with your NOI form*
- *Do not mail this form to the same address as your NOI.*

Mail this form and your check to either of the following:

By Regular U.S. Mail

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, TX 78711-3088

By Overnight or Express Mail

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, TX 78753

Fee Code: GPA General Permit: TXR150000

1. Check or Money Order No:
2. Amount of Check/Money Order:
3. Date of Check or Money Order:
4. Name on Check or Money Order:
5. NOI Information:

If the check is for more than one NOI, list each Project or Site (RE) Name and Physical Address exactly as provided on the NOI. **Do not submit a copy of the NOI with this form, as it could cause duplicate permit application entries!**

If there is not enough space on the form to list all of the projects or sites the authorization will cover, then attach a list of the additional sites.

Project/Site (RE) Name:

Project/Site (RE) Physical Address:

Staple the check or money order to this form in this space.

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Big Chief Storage

Regulated Entity Location: 200 Len Bar Lane Leander, TX 78641

Name of Customer: Big Chief Storage LLC

Contact Person: Terry Oliver

Phone: 512-280-3388

Customer Reference Number (if issued): CN _____

Regulated Entity Reference Number (if issued): RN _____

Austin Regional Office (3373)

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	5.74 Acres	\$ 5000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: *Gary Jones*

Date: 8/15/2023

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	Fee
Exception Request	\$500

Extension of Time Requests

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

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

I Terry Oliver,
Print Name

Manager,
Title - Owner/President/Other

of Big Chief Storage, LLC,
Corporation/Partnership/Entity Name

have authorized Gary Eli Jones, P.E.
Print Name of Agent/Engineer

of Eli Engineering, PLLC
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:

[Handwritten Signature]
Applicant's Signature

5-22-2023
Date

THE STATE OF TEXAS §

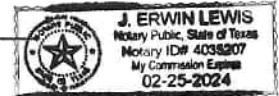
County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Terry Oliver 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 22 day of MAY, _____.

[Handwritten Signature]
NOTARY PUBLIC

Typed or Printed Name of Notary



MY COMMISSION EXPIRES: _____

Extension of Time Requests

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



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Big Chief Storage, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0804443234	32083311210		
11. Type of Customer:	<input checked="" 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 checked="" 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 checked="" 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:	250 North Bagdad Road		
	Suite A		
	City	Leander	State TX ZIP 78641 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		TOliver@apachemoving.net	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(512) 280-3388		() -	

SECTION III: Regulated Entity Information

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

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	200 Len Bar Lane						
	City	Leander	State	TX	ZIP	78641	ZIP + 4
24. County							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Just east of CR 270 on south side of Len Bar Lane.					
26. Nearest City	State			Nearest ZIP Code		
27. Latitude (N) In Decimal:	30.605532		28. Longitude (W) In Decimal:	-97.841909		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
30	36	19.9152	97	50	30.8724	
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)		
4214		484210				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>						
Moving Company with onsite storage.						
34. Mailing Address:	200 Len Bar Lane					
	City	Leander	State	TX	ZIP	78641 ZIP + 4
35. E-Mail Address:						
36. Telephone Number		37. Extension or Code		38. Fax Number <i>(if applicable)</i>		
(512) 280-3388				() -		

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

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

SECTION IV: Preparer Information

40. Name:	Gary Eli Jones	41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 658-8095		() -	gejtxas@gmail.com

SECTION V: Authorized Signature

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

Company:	Eli Engineering, PLLC	Job Title:	Manager
Name <i>(In Print)</i> :	Gary Eli Jones	Phone:	(512) 658- 8095
Signature:	<i>Gary Jones</i>	Date:	8/15/2023



Franchise Tax Account Status

As of : 05/21/2023 10:51:28

This page is valid for most business transactions but is not sufficient for filings with the Secretary of State

BIG CHIEF STORAGE LLC	
Texas Taxpayer Number	32083311210
Mailing Address	18303 LAKEPOINT CV LAGO VISTA, TX 78645-8706
ⓘ Right to Transact Business in Texas	ACTIVE
State of Formation	TX
Effective SOS Registration Date	02/23/2022
Texas SOS File Number	0804443234
Registered Agent Name	TERRY L OLIVER
Registered Office Street Address	18303 LAKEPOINT COVE LAGO VISTA, TX 78645