

# 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.

|                                                                    |                                      |                                                  |                                 |     |                                   |                               |           |                         |                            |
|--------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|---------------------------------|-----|-----------------------------------|-------------------------------|-----------|-------------------------|----------------------------|
| <b>1. Regulated Entity Name: Liberty Hill ISD<br/>Conner Tract</b> |                                      |                                                  |                                 |     | <b>2. Regulated Entity No.:</b>   |                               |           |                         |                            |
| <b>3. Customer Name: Liberty Hill ISD</b>                          |                                      |                                                  |                                 |     | <b>4. Customer No.: 600788483</b> |                               |           |                         |                            |
| <b>5. Project Type:<br/>(Please circle/check one)</b>              | <input checked="" type="radio"/> New | Modification                                     |                                 |     | Extension                         |                               | Exception |                         |                            |
| <b>6. Plan Type:<br/>(Please circle/check one)</b>                 | WPAP                                 | <input checked="" type="radio"/> CZP             | SCS                             | UST | AST                               | EXP                           | EXT       | Technical Clarification | Optional Enhanced Measures |
| <b>7. Land Use:<br/>(Please circle/check one)</b>                  | Residential                          | <input checked="" type="radio"/> Non-residential |                                 |     | <b>8. Site (acres):</b>           |                               | 19.98 ac  |                         |                            |
| <b>9. Application Fee:</b>                                         | \$6,500                              |                                                  | <b>10. Permanent BMP(s):</b>    |     |                                   | Sand Filter Pond              |           |                         |                            |
| <b>11. SCS (Linear Ft.):</b>                                       | NA                                   |                                                  | <b>12. AST/UST (No. Tanks):</b> |     |                                   | NA                            |           |                         |                            |
| <b>County:</b>                                                     | Williamson                           |                                                  | <b>14. Watershed:</b>           |     |                                   | 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](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.

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

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

Jack Garner, P.E.

Print Name of Customer/Authorized Agent

12/05/2025

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: Jack Garner, P.E.

Date: 12/05/2025

Signature of Customer/Agent:



Regulated Entity Name: Liberty Hill ISD Conner Tract

## Project Information

1. County: Williamson
2. Stream Basin: South Fork, San Gabriel River
3. Groundwater Conservation District (if applicable): NA
4. Customer (Applicant):

Contact Person: Dustin Akin

Entity: Liberty Hill ISD

Mailing Address: 301 Forrest St.

City, State: Liberty Hill, TX

Telephone: 512-260-5580

Email Address: dakin@libertyhill.txed.net

Zip: 78642

Fax: 512-260-5581

5. Agent/Representative (If any):

Contact Person: Jack Garner, P.E.

Entity: Langan Engineering

Mailing Address: 9606 N. Mopac Expressway, Suite 110

City, State: Austin, TX

Zip: 78759

Telephone: 737-289-7800

Fax: 737-289-7801

Email Address: jgarner@langan.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 Liberty Hill.
- 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.

16750 TX-29 Liberty Hill, TX 78642.

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: High school campus concrete marching band practice field / parking lot

13. Total project area (size of site): 19.98 Acres

Total disturbed area: 7.00 Acres

14. Estimated projected population: 2,800

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                         | 8,415           | ÷ 43,560 =          | 0.19         |
| Parking                                     | 102,422         | ÷ 43,560 =          | 2.35         |
| Other paved surfaces                        | 39,416 (gravel) | ÷ 43,560 =          | 0.90         |
| Total Impervious Cover                      | 150,253         | ÷ 43,560 =          | 3.44         |

**Total Impervious Cover 3.44 ÷ Total Acreage 19.98 X 100 = 17.21% 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" = 40'.
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 floodplain map 48491C0240F effective 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.

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment A – Road Map**  
**Liberty Hill ISD – Conner Tract**  
**Liberty Hill, TX**





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



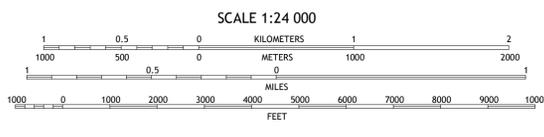
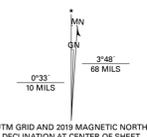
LIBERTY HILL QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1 000-meter grid: Universal Transverse Mercator, Zone 14R.  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAIP, August 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015  
Names.....GNIS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2002 - 2011  
Contours.....National Elevation Dataset, 2002 - 2012  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1981 - 1983



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

| ROAD CLASSIFICATION |                 |
|---------------------|-----------------|
| Expressway          | Local Connector |
| Secondary Hwy       | Local Road      |
| Ramp                | 4WD             |
| Interstate Route    | US Route        |
|                     | State Route     |

LIBERTY HILL, TX  
2019

\*7643016397012\*  
NSN 7540-01-6397-012  
NSA REF. NO. USGS X 2.4 K 2.5 6.3 1

**Contributing Zone Application – TCEQ Form 10257  
Attachment C – Project Narrative**

The Liberty Hill ISD Conner Tract is 19.98-acre parcel located just north of the existing Liberty Hill High School at 16750 TX-29 Liberty Hill, TX 78642. The proposed project is for the construction of a concrete lot to serve as a marching band practice field and will double as overflow parking for the high school. The proposed project is located in the Edwards Aquifer Contributing Zone. The site is an existing residence / equestrian facility.

The subject tract generally falls west to east with a well-defined natural drainage channel bisecting the site and draining to an existing culvert under Highway 29. The total evaluated drainage basin is approximately 266 acres, the majority of which will bypass the proposed construction area via the drainage channel, with the exception of a 22.10-acre basin that will be impacted by the project.

There are approximately 5.9 undeveloped acres upstream of the project site located to the east that contribute to the evaluated drainage basin. All of the stormwater generated upstream is routed around the proposed site and will bypass the proposed detention and water quality pond. (please see the existing and proposed drainage area maps included with the submission).

The existing site has 0.54 acres of concrete, asphalt, & rooftops. There is also 0.94 acres of compact gravel drives. The proposed project removes 0.06 ac of gravel and 0.06 ac of roof tops. The proposed project adds 2.06 ac of concrete pavement and 0.03 ac of riprap.

A sand filter pond will serve as the permanent BMP for the site and it will be located near the center of the property adjacent to the central drainage channel. The filter pond has been oversized to accommodate up to 5.75 acres of impervious cover. This was done primarily to avoid changes to the pond if the school district decided to further develop the property in the future. The proposed site is less than 20% IC but is being considered as part of the Liberty Hill High School Mater Plan.

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment D – Factors Affecting Surface Water Quality**

The potential factors affecting construction period surface water quality from this site are: sediment runoff from disturbed areas, petroleum products runoff from drips from construction equipment, pesticides and fertilizers from landscaping activities, and high pH wash water from concrete and masonry cleanup/ washout facilities. The high pH wash water potential will be controlled by requiring the use of appropriately sized, plastic lined containment areas for concrete and masonry cement washout and cleanup activities. The petroleum and pesticide/ fertilizer sources will be minimized by the use of good housekeeping procedures and inspections by trained personnel to ensure that all construction activities follow the procedures given on SWPPP Plan included as part of the construction drawings prepared for the site.

The potential factors affecting post-construction surface water quality from this site are: pesticide and fertilizer runoff from vegetated areas, petroleum products runoff from parking areas and drives. Sediment runoff from the site will be significantly reduced by the action of the water quality/ detention pond with sand filter permanent BMP. Pesticide/ fertilizer runoff will be minimized by education of the school employees or outside landscaping firm relative to acceptable landscaping practices after construction activities are completed.

**Contributing Zone Application – TCEQ Form 10257  
Attachment E – Volume and Character of Stormwater**

Please refer to Drainage Area Maps in the construction plans for more details on the information presented below.

**Pre-construction conditions:** The total studied drainage area is 266.10 acres, the majority of which is off-site area. The area impacted by the project is 22.10 acres. Upstream run-on within the studied limits and onsite hydrology is as shown on C5.0. Calculations are based on the Rational Method.

**Post-construction conditions:** The peak discharge rates for post-construction are equal to or less than predeveloped discharge rates. Pre and post construction discharge rates are shown in the design point summary shown on C5.0 & C5.1.

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment J – BMPs for Upgradient Stormwater**

Upgradient stormwater will be captured along the east property line and diverted around the subject site discharging under hwy 29, eventually to the south Fork of the San Gabriel River. Therefore, no upgradient stormwater will cross the surface of the proposed school site.

**Contributing Zone Application – TCEQ Form 10257  
Attachment K – BMPs for On-site Stormwater**

**Construction Phase**

Please refer to Plan Sheets for more information and details about the information presented below.

Stabilization practices for this site include:

1. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
2. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
3. Permanent seeding and planting of all unpaved areas.
4. Use of stabilization fabric for all slopes having a slope of 1 V:3H or greater
5. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, stabilization activities shall commence no later than the 14th day after cessation of construction activities.

Structural practices for this site include:

1. Inlet protection using block and gravel filled bags and silt fence
2. Perimeter protection using silt fencing and/or erosion control logs
3. Stabilized construction exit point
4. Contractor shall provide sufficient velocity dissipation devices in the form of rock check dams and/or rock rip rap for velocity dissipation at areas with existing or potential channelized flow.

**Permanent phase: water quality/ detention ponds**

On-site water quality sand filter pond / detention pond, has been designed in accordance with the TCEQ Edwards Aquifer Compliance Technical Guidance Manual on Best Management Practices, will be constructed by the Owner for use as a permanent water quality and water quantity control system. All storm water runoff from the school site will be routed to earthen channels and will then flow to the on-site water quality sand filter pond / detention pond central to the site.

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment L – BMPs for Surface Streams**

The stormwater runoff from this site will flow into an on-site water quality sand filter pond /detention pond, built and maintained by the Owner, before passing into the south Fork, San Gabriel River. This pond will provide effective protection to the water quality of this surface stream.

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment M – Construction Plans**

Please refer to construction plans prepared for this construction site which are a separate part of the permit application package.

## **Contributing Plan Application TCEQ Form 10257**

### **Attachment N: Inspection, maintenance, repair, and retrofit plan for sand filter**

The Owner shall implement the following inspection, maintenance, repair, and record keeping procedures for the sand filter located within the detention pond designed to serve the site.

1. **Inspection:** Owner's representative shall visually inspect the extended detention pond at least every 3 months, and after each large storm for the first year of operation. For the second and following years, inspections may be limited to every 6 months and at least one time per year after a large storm. Because construction activities can contribute heavy sediment and debris loads, construction activities should be completed, and all areas should be stabilized, prior to exposing the sand filter to stormwater runoff. During each inspection, erosion areas inside and downstream of the sand filter shall be identified and repaired or revegetated immediately. Any damage to structural elements of the system (pipes, concrete drainage structures, retaining walls, etc.) shall be identified and repaired immediately. Cracks, voids, and undermining effects shall be patched/ filled to prevent additional structural damage. Trees and root systems shall be removed to prevent growth in cracks and joints that can lead to structural damage.

2. **Sediment Removal:** Sediment shall be removed from the inlet structure and sedimentation chamber when sediment buildup reaches a depth of 6" or when the proper functioning of inlet and outlet structure is impaired. Sediment shall be cleared from the inlet structure at least once per year and from the sedimentation basin at least once every 5 years.

3. **Media Replacement:** Maintenance of the filter media shall be accomplished when the drawdown time exceeds 48 hours. When this maintenance is required, the upper layer of sand shall be removed and replaced with new material meeting the original specifications. Any discolored sand shall also be removed and replaced. IN filters that have been regularly maintained, this media replacement should be limited to the top 2-3".

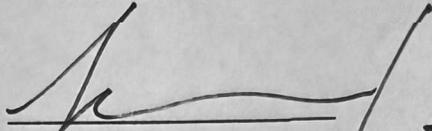
4. **Debris and Litter Removal:** Debris and litter that has accumulated near the sedimentation basin outlet device should be removed during regular mowing operations and during all inspections. Particular attention shall be directed towards floating debris that could eventually clog the control device or riser.

5. **Filter Underdrain:** Clean underdrain piping network to remove any sediment buildup, on an as needed basis, to maintain design drawdown time.

6. **Mowing:** Grassy areas in and around the sand filter shall be mowed at least two times per year, with more frequent mowing as necessary to maintain aesthetic appeal. Vegetation height should be limited to 18". Vegetation on the pond embankments shall be mowed as often as is necessary to prevent the establishment of woody vegetation.

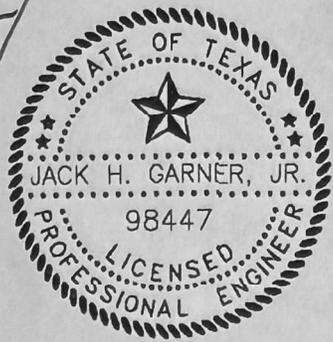
7. Record Keeping: The Owner's representative shall prepare a signed, written record of each inspection performed and actions performed as a result of the inspection observations, shall maintain those records in the Owner's office for a period of 5 years, and shall, upon request, make those records available to TCEQ personnel and other agencies with jurisdiction over the site.

Certifications:

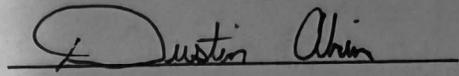
  
Design Engineer

Jack H. Garner, Jr.  
Printed Name

12.5.2025  
Date



PE Seal

  
Owner

DUSTIN AKIN  
Printed Name

12/05/2025  
Date

**Contributing Zone Application – TCEQ Form 10257**  
**Attachment P - Measures for Minimizing Surface Stream Contamination**

The stormwater runoff from this site will flow into an on-site water quality sand filter pond / detention pond, built and maintained by the Owner, before passing the south Fork, San Gabriel River. An Owner's representative shall visually inspect all downstream flow path at a minimum interval of every 3 months. These practices will provide effective measures to minimize surface stream contamination.

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 \* = **9.60** acres  
Predevelopment impervious area within the limits of the plan \* = **0.00** acres  
Total post-development impervious area within the limits of the plan \* = **3.44** acres  
Total post-development impervious cover fraction \* = **0.36**  
 $P$  = **32** inches

$L_{M \text{ TOTAL PROJECT}}$  = **2994** lbs.

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

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

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

Drainage Basin/Outfall Area No. = **1**  
Total drainage basin/outfall area = **9.60** acres  
Predevelopment impervious area within drainage basin/outfall area = **0.00** acres  
Post-development impervious area within drainage basin/outfall area = **3.44** acres  
Post-development impervious fraction within drainage basin/outfall area = **0.36**  
 $L_{M \text{ THIS BASIN}}$  = **2994** lbs.

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = **Sand Filter**  
Removal efficiency = **89** percent

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

**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

$A_C$  = **9.60** acres  
 $A_i$  = **3.44** acres  
 $A_p$  = **6.16** acres  
 $L_R$  = **3485** lbs

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

Desired  $L_{M \text{ THIS BASIN}}$  = **2994** lbs.  
 $F$  = **0.86**

**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 = **1.38** inches  
Post Development Runoff Coefficient = **0.29**  
On-site Water Quality Volume = **13799** 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 = **2760**  
Total Capture Volume (required water quality volume(s) x 1.20) = **16559** cubic feet

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

**9B. Partial Sedimentation and Filtration System**

|                                            |              |             |                                   |
|--------------------------------------------|--------------|-------------|-----------------------------------|
| Water Quality Volume for combined basins = | <b>16559</b> | cubic feet  |                                   |
| Minimum filter basin area =                | <b>1380</b>  | square feet |                                   |
| Maximum sedimentation basin area =         | <b>5520</b>  | square feet | For minimum water depth of 2 feet |
| Minimum sedimentation basin area =         | <b>345</b>   | square feet | For maximum water depth of 8 feet |



12-05-2025

TBPE Registration #: F- 13,709

# 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: Jack Garner, PE

Date: 12/05/2025

Signature of Customer/Agent:



---

Regulated Entity Name: Liberty Hill ISD Conner Tract

## 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: south Fork, 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.

# Temporary Stormwater Management Practices TCEQ Form 0602

## Attachment A Spill Response Actions

### SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN

#### 1 MATERIALS COVERED

The following materials or substances with known hazardous properties are expected to be present onsite during construction:

|                              |                          |
|------------------------------|--------------------------|
| Concrete                     | Cleaning solvents        |
| Detergents                   | Petroleum based products |
| Paints                       | Pesticides               |
| Paint solvents               | Acids                    |
| Fertilizers                  | Concrete additives       |
| Soil stabilization additives |                          |

#### 2 MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

##### 2.1 Good Housekeeping

The following good housekeeping practices will be followed onsite during the construction project.

- A. An effort will be made to store only enough product required to do the job.
- B. All materials stored onsite will be stored in a neat, orderly manner and, if possible, under a roof or other enclosure.
- C. Products will be kept in their original containers with the original manufacturer's label in legible condition.
- D. Substances will not be mixed with one another unless recommended by the manufacturer.
- E. Whenever possible, all of a product will be used up before disposing of the container.
- F. Manufacturer's recommendations for proper use and disposal will be followed.
- G. The job site superintendent will be responsible for daily inspections to ensure proper use and disposal of materials.

##### 2.2 Hazardous Products

These practices will be used to reduce the risks associated with hazardous materials.

- A. Products will be kept in original containers with the original labels in legible condition.
- B. Original labels and material safety data sheets (MSDS's) will be procured and used for each material.
- C. If surplus product must be disposed of, manufacturers or local/state/federal recommended methods for proper disposal will be followed.
- D. A spill control and containment kit (containing, for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.) will be provided at the storage site.
- E. All of the product in a container will be used before the container is disposed of. All such containers will be triple rinsed with water prior to disposal. The rinse water used in these containers will be disposed of in a manner in compliance with state and federal regulations and will not be allowed to mix with stormwater discharges.

### 2.3 Product Specific Practices

The following product specific practices will be followed on the job site.

#### A. Petroleum Products

All onsite vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any petroleum storage tanks used onsite will have a dike or berm containment structure constructed around it to contain any spills which may occur. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

#### B. Fertilizers

Fertilizers will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked in the soil to limit exposure to stormwater. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

#### C. Paints, Paint Solvents, and Cleaning Solvents

All containers will be tightly sealed and stored when not in use. Excess paint and solvents will not be discharged to the storm sewer system but will be properly disposed of according to manufacturer's instructions or state and federal regulations.

D. Concrete Trucks

The CGP authorizes the land disposal of wash out water from concrete trucks at construction sites that are regulated under the CGP, as long as the discharge is in compliance with the restrictions given in the SWPPP. This authorization is limited to the land disposal of wash out water from concrete trucks only. Any other direct discharge of concrete production waste water is not authorized by the CGP and must be authorized under a separate TCEQ General Permit or individual permit.

2.4 Spill Prevention Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup.

- A. Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be trained regarding these procedures and the location of the information and cleanup supplies.
- B. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite in spill control and containment kit (containing, for example, absorbent such as kitty litter or sawdust, acid neutralizing powder, brooms, dust pans, mops, rags, gloves, goggles, plastic and metal trash containers, etc.).
- C. All spills will be cleaned up immediately after discovery.
- D. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with the hazardous substances.
- E. Spills of toxic or hazardous materials will be reported to the appropriate federal, state, and/or local government agency, regardless of the size of the spill. Spills of amounts that exceed Reportable Quantities of certain substances specifically mentioned in federal regulations (40 CFR 302 list and oil) will be immediately reported to the TCEQ National Response Center (**1-800-424-8802**) and the TCEQ Spill Reporting 24-hr Hotline (**1-800-832-8224**). Reportable Quantities of some substances which may be used at the job site are as follows:
  - oil - appearance of a film or sheen on water
  - pesticides - usually 1 lb.
  - acids - 5000 lb.
  - solvents, flammable - 100 lb.
- F. The SPCC plan will be adjusted to include measures to prevent this type of spill from recurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included. If the spill exceeds a

Reportable Quantity, all federal regulations regarding reports of the incident will be complied with.

- G. The job site superintendent will be the spill prevention and cleanup coordinator. He will designate the individuals who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of these personnel will be posted in the material storage area and in the office trailer onsite.

## **Temporary Stormwater Management Practices TCEQ Form 0602**

### Attachment B Potential Sources of Contamination

The following are the potential pollutants and their sources which may occur at this construction site: offsite vehicle tracking of mud from vehicle traffic through inadequate construction exit, petroleum based products from vehicle/ equipment leaks and drips (maintenance and petroleum storage areas will not be allowed on the construction site), pesticides and fertilizers from landscaping activities, and high pH washwater from concrete and masonry cleanup/ washout facilities.

## **Temporary Stormwater Management Practices TCEQ Form 0602**

### Attachment C Sequence of Major Activities

The Contractor will be responsible for implementing the following erosion and sediment control and stormwater management control structures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the general contractor. The order of activities will be as follows (refer to Erosion Control Plan contained in the Construction Plans for the project for details):

- A. Install silt fence around perimeter of property and disturbed areas as shown on the SWPPP plan sheet. (Approx. 1.0 acres)
- B. Install inlet protection for all existing grate inlets, curb inlets, and at the end of all exposed storm sewer pipes, if present. (Approx. 0.1 acres)
- C. Construct temporary construction exit. (Approx 0.1 acres)
- D. Commence grubbing and removal of vegetation in area to receive cut or fill. (Approx. 7.0 acres)
- F. Install all underground utilities. (Approx. 1.0 acre)
- G. Finalize pavement subgrade preparation. (Approx. 2.5 acres)
- H. Install all proposed storm sewer pipes and install inlet protection silt fences at ends of exposed pipes. (Approx. 2.0 acres)
- I. Construct all grate inlets and drainage structures. Inlet protection silt fences may be removed temporarily for this construction. (Approx. 2.0 acres)
- K. Install base material as required for pavement, curb and gutter. (Approx. 2.5 acres)
- L. Install all paving, curb and gutter. (Approx. 2.5 acres)
- M. Complete planting and/or seeding of vegetated areas to accomplish stabilization, in accordance with the landscaping plan. (Approx. 7.0 acres)
- N. Remove temporary construction exit, silt fence, inlet protection, and all other temporary sediment controls. (Approx. 1.0 acres)

## **Temporary Stormwater Management Practices TCEQ Form 0602**

### Attachment D Temporary Best Management Practices

The following temporary best management practices will be used on the construction site

#### Stabilization Practices

1. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
2. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
3. Use of stabilization fabric for all slopes having a slope of 1V:3H or greater.
4. Permanent seeding and planting of all unpaved areas.
5. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, stabilization activities shall commence no later than the 14<sup>th</sup> day after cessation of construction activities or after final grades have been achieved.

## **Temporary Stormwater Management Practices TCEQ Form 0602**

### Attachment F Structural Practices

The following structural best management practices will be used on the construction site

1. Inlet protection using gravel filled bags and silt fence.
2. Perimeter protection using silt fencing and/or erosion control logs
3. Stabilized construction exit point
5. Diversion berm/ swale to channel onsite runoff flow into the proposed basin.
6. Rock check dams
7. Temporary concrete washout area
8. Use of rock rip rap for velocity dissipation at areas with existing or potential channelized flow.

**Temporary Stormwater Management Practices TCEQ Form 0602**

Attachment G Drainage Area Map

Please refer to Plan Sheets Existing Drainage Area Map and Proposed Drainage Area Map of the Construction Plans for this project.

## Temporary Stormwater Management Practices TCEQ Form 0602

Attachment I Inspection/ Maintenance for BMPs

### I. Erosion and Sediment Control Maintenance and Inspection Practices

A. The following is a list of erosion and sediment controls to be used on this site during construction practice.

1. Stabilization practices for this site include:

- A. Land clearing activities shall be done only in areas where earthwork will be performed and shall progress as earthwork is needed
- B. Frequent watering of excavation and fill areas to minimize wind erosion during construction.
- C. Use of stabilization fabric for all slopes having a slope of 1V:3H or greater.
- D. Permanent seeding and planting of all unpaved areas.
- E. For all disturbed areas where construction activities have temporarily or permanently ceased for more than 14 days, soil stabilization activities shall commence as soon as practicable but no later than the 14<sup>th</sup> day after cessation of construction activities.

2. Structural practices for this site include:

- A. Inlet protection using block and gravel-filled bags and fabric filter material
- B. Perimeter protection using silt fencing and/or straw roll wattles
- C. Stabilized construction exit point
- D. Temporary sediment pond with outlet structure and Faircloth skimmer for dewatering

Velocity Dissipation: Contractor shall provide sufficient velocity dissipation devices to prevent soil erosion at discharge points where concentrated flow occurs or is expected to occur.

B. The following inspection and maintenance practices will be used to maintain erosion and sediment controls.

- 1. All control measures will be inspected weekly and after each rainfall event.

2. All measures will be maintained in good working order; if repairs are found to be necessary, they will be initiated within 24 hours of report and completed prior to the next anticipated rainfall event. If completion of required repairs cannot be accomplished prior to the next anticipated rainfall event, the reason shall be documented in the SWPPP for the site and completion shall be accomplished as soon as practicable.
3. Built up sediment will be removed from silt fence when it has reached one-third the height of the fence.
4. Silt fences will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are securely in the ground.
5. The sediment basin, if present, will be inspected for depth of sediment, and built up sediment will be removed when it reaches 50 percent of the design capacity. **Contractor shall install a depth gauge in the sediment basin to use in evaluating the depth of accumulated sediment to determine when sediment removal is required.**
6. Temporary and permanent seeding will be inspected for bare spots, washouts, and healthy growth.
7. A maintenance inspection report will be made after each inspection. Copies of the report forms to be completed by the inspector are included in the SWPPP for the site.
8. The job site superintendent will be responsible for selecting and training the individuals who will be responsible for these inspections, maintenance and repair activities, and filling out inspection and maintenance reports.
9. Personnel selected for the inspection and maintenance responsibilities will receive training from the job site superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls that are used onsite in good working order. They will also be trained in the completion of, initiation of actions required by, and the filing of the inspection forms. Documentation of the qualifications of inspection personnel must be kept in the SWPPP for the site.

## **II. Inspection and Maintenance Report Forms**

Once installation of any required or optional erosion control device or measure has been implemented, weekly inspections of each measure shall be performed by the Contractor's inspection personnel. The Inspection and Maintenance Reports found in the SWPPP for the site (or other forms which the Contractor desires to use that have been approved by

the Engineer) shall be used by the inspectors to inventory and report the condition of each measure to assist in maintaining the erosion and sediment control measures in good working order.

Based on the results of the periodic inspections, necessary control modifications shall be initiated within 24 hours and completed prior to the next anticipated rain event. These inspection reports shall be kept on file as part of the Storm Water Pollution Prevention Plan for at least three years from the date of completion and submission of the Notice of Termination.

These report forms shall become an integral part of the SWPPP for the site and shall be made readily accessible to TCEQ inspection officials, the Civil Engineering Consultant, and the Owner for review upon request during visits to the project site. In addition, copies of the reports shall be provided to any of these persons, upon request, via mail or facsimile transmission.

The following forms shall be utilized by inspectors to report on the incremental status and condition of the control measures used on the site:

### **III. Summary of Erosion and Sediment Control Maintenance/Inspection Procedures**

- All control measures will be at least weekly and after each rainfall event.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report and completed prior to the next anticipated rain event.
- Built-up sediment will be removed from silt fences when it has reached one-third the height of the fence.
- Silt fences will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- Sediment basins, if present, will be inspected for depth of sediment, and built-up sediment will be removed when it reaches 50% of the design capacity or at the end of the job. **Contractor shall install a depth gauge in the sediment basin to use in evaluating the depth of accumulated sediment to determine when sediment removal is required.**
- Diversion dikes, if present, will be inspected and any breaches promptly repaired.
- If sediment escapes the site, accumulations will be removed at a frequency to minimize further negative effects, and whenever feasible, prior to the next forecasted rain event.
- 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. Copies of the report forms to be used are included in the SWPPP for the site.
- 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. Records documenting the training and experience qualifications of each and every inspector shall be kept with the Inspection Record Forms in the SWPPP for the site.

#### **IV. Construction/Implementation Checklist**

##### 1. Maintain Records of Construction Activities, including:

- Dates when major grading activities occur
- Dates when construction activities temporarily cease on a portion of the site
- Dates when construction activities permanently cease on a portion of the site
- Dates when stabilization measures are initiated on the site
- Dates of rainfall events and post-rainfall inspections

##### 2. Prepare Inspection Reports summarizing:

- Name of inspector
- Qualifications of Inspector
- Control measures/areas inspected
- Observed conditions and areas of non-compliance
- Location of any discharges of sediments or other pollutants from the site
- Recommended remedial actions and action on previously recommended remedial actions
- Statement that the site is or is not in compliance with the Permit/SWPPP
- Changes necessary to the SWPPP for the site

3. Report Releases of Reportable Quantities of Oil or Hazardous Materials (if they occur):

- Notify TCEQ Spill Response Center (**1-800-832-8224**) immediately
- Notify permitting authority in writing within 14 days
- Modify the pollution prevention plan to include:
  - the date of release
  - circumstances leading to the release
  - steps taken to prevent recurrence of the release

4. Modify Pollution Prevention Plan as necessary to:

- Comply with the minimum permit requirements when notified by TCEQ that the plan does not comply
- Address a change in design, construction operation, or maintenance which has an effect on the potential for discharge of pollutants
- Prevent recurrence of reportable quantity releases of a hazardous material or oil

## **Temporary Stormwater Management Practices TCEQ Form 0602**

Attachment J Interim/ permanent soil stabilization practices

### **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

# BMP INSPECTION REPORT FOR STORM WATER POLLUTION PREVENTION PLAN

**Liberty Hill ISD Conner Tract – 16750 TX-29, Liberty Hill, TX 78642**

**INSPECTOR QUALIFICATIONS:** \_\_\_\_\_

**DATE OF INSPECTION:** \_\_\_\_\_ **SITE CONDITIONS:** \_\_\_\_\_

| POLLUTANT CONTROL                         | IN CONFORMANCE? | CORRECTIONS NEEDED |
|-------------------------------------------|-----------------|--------------------|
| Construction Exit                         | YES/ NO /NA     |                    |
| Perimeter Silt Fence                      | YES/ NO /NA     |                    |
| Exposed Areas/ Material Storage           | YES/ NO /NA     |                    |
| Sediment Traps, Basins, Check Dams        | YES/ NO /NA     |                    |
| Diversion Berms, Swales                   | YES/ NO /NA     |                    |
| Stabilization, Vegetation, Mulch, EC Mats | YES/ NO /NA     |                    |
| Inlet Protection                          | YES/ NO /NA     |                    |
| Street, Curb, Site Perimeter              | YES/ NO /NA     |                    |
| Concrete Washout Area                     | YES/ NO /NA     |                    |
| Litter/ Trash Containment                 | YES/ NO /NA     |                    |
| Outfalls/ Areas receiving discharges      | YES/ NO /NA     |                    |
| Other:                                    | YES/ NO /NA     |                    |

LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE:

RECOMMENDED REMEDIAL ACTIONS : ( to be implemented prior to the next anticipated rain event)

ACTION ON PREVIOUS RECOMMENDED REMEDIAL ACTIONS:

INSPECTOR CERTIFIES THAT SITE IS IN COMPLIANCE WITH PERMIT/SWPPP -- YES/NO

Certification Statement

"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."

Inspector Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Site location: \_\_\_\_\_

Signature: \_\_\_\_\_ Date \_\_\_\_\_

# Site Civil Plans for the Construction of CONNER TRACT BAND PARKING ADDITION

## To Serve LIBERTY HILL I.S.D.

19.98 ACRES  
PATRICK CONNER AND VANESSA J. CONNER  
CALLED 19.9801 ACRES  
INST. # 2008060939  
O.P.R.W.C.T.

INDEPENDENT SCHOOL DISTRICT  
LIBERTY HILL ISD  
301 FORREST STREET  
LIBERTY HILL, TX 78642  
CONTACT: DUSTIN AKIN  
PHONE: (512) 260-5580  
EMAIL: DAKIN@LIBERTYHILL.TXED.NET

CIVIL ENGINEER  
LANGAN ENGINEERING AND  
ENVIRONMENTAL SERVICES, LLC.  
9606 N. MOPAC EXPRESSWAY, SUITE 110  
AUSTIN, TX 78759  
CONTACT: JACK GARNER, JR., PE  
PHONE: (737) 289-7800  
EMAIL: JGARNER@LANGAN.COM

SURVEYOR  
LANGAN ENGINEERING AND  
ENVIRONMENTAL SERVICES, LLC.  
9606 N. MOPAC EXPRESSWAY, SUITE 110  
AUSTIN, TX 78759  
CONTACT: JACK NEEDHAM, R.P.L.S.  
PHONE: (737) 289-7825  
EMAIL: JNEEDHAM@LANGAN.COM



### SITE MAP



## LANGAN

Langan Engineering and  
Environmental Services, LLC.

9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com  
TBPB FIRM REG. #F-13709

LANGAN PROJECT NO. 531013314

# DECEMBER 2025

#### NOTES:

- THE CONTRACTOR SHALL OBTAIN A "NOTICE OF PROPOSED INSTALLATION OF UTILITY LINE" PERMIT FROM WILLIAMSON COUNTY FOR ANY WORK PERFORMED IN THE EXISTING COUNTY RIGHT-OF-WAY (DRIVEWAY APRON, WATER MAIN TIE-IN, ETC.). THIS PERMIT APPLICATION WILL REQUIRE A LIABILITY AGREEMENT, A CONSTRUCTION COST ESTIMATE FOR WORK WITHIN THE RIGHT-OF-WAY INCLUDING PAVEMENT REPAIR (IF NEEDED), A PERFORMANCE BOND, CONSTRUCTION PLANS AND, IF NECESSARY, A TRAFFIC CONTROL PLAN, AN INSPECTION FEE, AND A PRE-CONSTRUCTION MEETING MAY ALSO BE REQUIRED, DEPENDING ON THE SCOPE OF WORK. THE PERMIT WILL BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER, AND MUST ALSO BE APPROVED BY THE WILLIAMSON COUNTY COMMISSIONERS COURT IF ANY ROAD CLOSURE IS INVOLVED.
- ADEQUACY OF THESE PLANS FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE SIGNING/SEALING ENGINEER.

CERTIFICATE OF COMPLIANCE (C OF C) PERMIT NUMBER \_\_\_\_\_

WCESD #4 PERMIT NUMBER \_\_\_\_\_

TCEQ CZP PERMIT NUMBER \_\_\_\_\_

STORMWATER PERMIT NUMBER \_\_\_\_\_

| Sheet Number | Sheet Title                          |
|--------------|--------------------------------------|
| C1.0         | COVER SHEET                          |
| C1.1         | GENERAL & TCEQ NOTES                 |
| C1.2         | TOPOGRAPHIC SURVEY (1 OF 5)          |
| C1.3         | TOPOGRAPHIC SURVEY (2 OF 5)          |
| C1.4         | TOPOGRAPHIC SURVEY (3 OF 5)          |
| C1.5         | TOPOGRAPHIC SURVEY (4 OF 5)          |
| C1.6         | TOPOGRAPHIC SURVEY (5 OF 5)          |
| C2.0         | SOIL EROSION & SEDIMENT CONTROL PLAN |
| C3.0         | DEMOLITION PLAN                      |
| C4.0         | SITE PLAN                            |
| C5.0         | GRADING PLAN                         |
| C6.0         | EXISTING DRAINAGE AREA MAP           |
| C6.1         | PROPOSED DRAINAGE AREA MAP           |
| C6.2         | WATER QUALITY PLAN                   |
| C6.3         | WATER QUALITY CALCULATIONS           |
| C7.0         | EROSION CONTROL DETAILS              |
| C7.1         | DRAINAGE DETAILS                     |
| C7.2         | PAVING DETAILS                       |

CRYSTAL MANCILLA, MAYOR \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF LIBERTY HILL, TEXAS

Based on the design engineer's certification of compliance with all applicable City, State and Federal regulations, the plans and specifications contained herein have been reviewed and are found to be in compliance with the requirements of the City of Liberty Hill.

REVIEWED FOR COMPLIANCE WITH WILLIAMSON COUNTY REQUIREMENTS.  
(WCSR 2021B)

\_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

MCKENZIE HICKS, PLANNING DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF LIBERTY HILL, TEXAS

Based on the design engineer's certification of compliance with all applicable City, State and Federal regulations, the plans and specifications contained herein have been reviewed and are found to be in compliance with the requirements of the City of Liberty Hill.

JAMES HERERRA, DIRECTOR OF PUBLIC WORKS \_\_\_\_\_ DATE \_\_\_\_\_  
CITY OF LIBERTY HILL, TEXAS

Based on the design engineer's certification of compliance with all applicable City, State and Federal regulations, the plans and specifications contained herein have been reviewed and are found to be in compliance with the requirements of the City of Liberty Hill.

| Date                                                                                                                                                                                                            | Description | No. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|
| Revisions                                                                                                                                                                                                       |             |     |
|                                                                                                                                                                                                                 |             |     |
| <b>LANGAN</b><br>Langan Engineering and<br>Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TBPB FIRM REG. #F-13709 |             |     |

Project  
**CONNER TRACT BAND  
PARKING ADDITION**

LIBERTY HILL  
WILLIAMSON COUNTY TEXAS

Drawing Title  
**COVER SHEET**

|                                 |                             |
|---------------------------------|-----------------------------|
| Project No.<br><b>531013327</b> | Drawing No.<br><b>C1.0</b>  |
| Date<br><b>12/05/2025</b>       |                             |
| Drawn By<br><b>AM</b>           |                             |
| Checked By<br><b>MH</b>         | Sheet <b>1</b> of <b>18</b> |

CITY OF LIBERTY HILL NOTES

CITY OF LIBERTY HILL GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD SPECIFICATIONS MANUAL.
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DESTRUCTION OR REMOVAL THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
3. 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 WHO SHALL BE RESPONSIBLE FOR REVISIONS TO THE PLANS AS APPROPRIATE.
4. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
5. THE CONTRACTOR SHALL GIVE THE CITY OF LIBERTY HILL 48 HOURS NOTICE BEFORE BEGINNING EACH PHASE OF CONSTRUCTION. TELEPHONE 512-778-5449 (PLANNING & DEVELOPMENT DEPARTMENT).
6. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. REVEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF REVEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION.
7. PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENIE A PRECONSTRUCTION CONFERENCE BETWEEN THE CITY OF LIBERTY HILL, HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE.
8. THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF LIBERTY HILL ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION. THESE "AS-BUILT" DRAWINGS SHALL MEET WITH THE SATISFACTION OF THE PLANNING & DEVELOPMENT DEPARTMENT PRIOR TO FINAL ACCEPTANCE.
9. THE LIBERTY HILL CITY COUNCIL SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
10. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE CONTRACTOR'S WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER AND/OR CITY INSPECTOR.
11. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
12. BENCHMARKS UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS: AS NOTED ON THE SURVEY BY LANGAN ENGINEERING LLC, TITLED ALTAINSPTS LAND TITLE SURVEY, DATED 06/05/2024.
THE FIRST SITE BENCHMARK (TBM #1) IS A MAG NAIL WITH METAL WASHER STAMPED "LANGAN BENCHMARK" SET IN A CONCRETE CURB/VERT HEADWALL ALONG THE NORTH MARGIN OF STATE HIGHWAY NO. 29, LOCATED APPROXIMATELY 19 FEET SOUTHWESTERLY FROM THE NORTH RIGHT-OF-WAY LINE OF STATE HIGHWAY NO. 29, AND APPROXIMATELY 152 FEET NORTHWESTERLY FROM THE SOUTH CORNER OF 19,980 ACRE SUBJECT PROPERTY, BENCHMARK ELEVATION = +1,027.48' (NAVD88). SEE VICINITY MAP FOR GENERAL LOCATION.
THE SECOND SITE BENCHMARK (TBM #2) IS A MAG NAIL WITH METAL WASHER STAMPED "LANGAN BENCHMARK" SET IN A CONCRETE CURB FOR DRIVEWAY ENTERING A PROPERTY ALONG THE NORTH MARGIN OF STATE HIGHWAY NO. 29, LOCATED APPROXIMATELY 58 FEET NORTHEASTERLY FROM THE NORTH RIGHT-OF-WAY LINE OF STATE HIGHWAY NO. 29, AND APPROXIMATELY 204 FEET SOUTHEASTERLY FROM THE SOUTH CORNER OF 19,980 ACRE SUBJECT PROPERTY. BENCHMARK ELEVATION = +1,035.06' (NAVD88). SEE VICINITY MAP FOR GENERAL LOCATION.

CITY OF LIBERTY HILL TRENCH SAFETY NOTES:

- 1. 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 AND 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 WILL BE PROVIDED BY THE CONTRACTOR.
2. IN ACCORDANCE WITH THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, WHEN PERSONS ARE IN TRENCHES 4-FEET DEEP OR MORE, ADEQUATE MEANS OF EXIT, SUCH AS A LADDER OR STEPS, MUST BE PROVIDED AND LOCATED 30 AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
3. IF TRENCH SAFETY SYSTEM DETAILS WERE NOT PROVIDED IN THE PLANS 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 RETAINED AND COPIES SUBMITTED TO THE CITY OF LIBERTY HILL.

CITY OF LIBERTY HILL TRAFFIC MARKING NOTES:

- 1. 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.
2. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES AND, THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

CITY OF LIBERTY HILL EROSION AND SEDIMENTATION CONTROL NOTES:

- 1. EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS.
2. 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.
3. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY 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 THE CITY OF LIBERTY HILL FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRANTED.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL 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 STRUCTURES AND TO REMOVE EACH STRUCTURE AS APPROVED BY THE ENGINEER.
5. ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS, DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.

CITY OF LIBERTY HILL STREET AND DRAINAGE NOTES:

- 1. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE OWNER'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING. TELEPHONE 512-778-5448 (INSPECTIONS).
2. BACKFILL BEHIND THE 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 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.
3. 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.
4. STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF LIBERTY HILL PLANNING & DEVELOPMENT DEPARTMENT.
5. BARRICADES BUILT TO CITY OF LIBERTY HILL STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
6. ALL R.C.P. SHALL BE MINIMUM CLASS III.
7. THE SUBGRADE MATERIAL FOR THE STREETS SHOWN HEREIN WAS TESTED BY LANGAN ENGINEERING, LLC, AND THE PAVING SECTIONS DESIGNED IN ACCORDANCE WITH THE CURRENT CITY OF LIBERTY HILL DESIGN CRITERIA. REFERENCE GEOTECHNICAL ENGINEERING REPORT PREPARED BY LANGAN ENGINEERING, LLC, DATED 07/18/2024.

- 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.
8. WHERE PIS ARE OVER 20, SUBGRADES MUST BE STABILIZED UTILIZING A METHOD ACCEPTABLE TO THE CITY ENGINEER. THE GEOTECHNICAL ENGINEER SHALL RECOMMEND AN APPROPRIATE SUBGRADE STABILIZATION IF SULFATES ARE DETERMINED TO BE PRESENT.

WILLIAMSON COUNTY CONSTRUCTION NOTES

B4 - CONSTRUCTION - GENERAL

- 1. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED PRIOR TO THE START OF CONSTRUCTION. THE DESIGN ENGINEER, OWNER, CONTRACTOR, SUBCONTRACTORS, AND COUNTY ENGINEER SHALL ATTEND THIS MEETING. ALL ROADS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AS APPROVED BY THE COUNTY ENGINEER AND IN ACCORDANCE WITH THE SPECIFICATIONS FOUND IN THE CURRENT VERSION OF THE TEXAS DEPARTMENT OF TRANSPORTATION MANUAL STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND BRIDGES UNLESS OTHERWISE STATED ON THE CONSTRUCTION DOCUMENTS APPROVED BY THE COUNTY ENGINEER.
2. ALL MATERIALS SHALL BE SAMPLED AND TESTED BY AN INDEPENDENT TESTING LABORATORY IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE COUNTY ENGINEER. THE OWNER SHALL PAY FOR ALL TESTING SERVICES AND SHALL FURNISH THE COUNTY ENGINEER WITH CERTIFIED COPIES OF THESE TEST RESULTS. THE COUNTY ENGINEER MUST APPROVE THE TEST RESULTS PRIOR TO CONSTRUCTING THE NEXT COURSE OF THE ROADWAY STRUCTURE. ANY MATERIAL WHICH DOES NOT MEET THE MINIMUM REQUIRED TEST SPECIFICATIONS SHALL BE REMOVED AND RECOMPACTED OR REPLACED UNLESS ALTERNATIVE REMEDIAL ACTION IS APPROVED IN WRITING FROM THE COUNTY ENGINEER.
3. EXCEPT FOR ELECTRICAL LINES, ALL UNDERGROUND NONFERROUS UTILITIES WITHIN A RIGHT-OF-WAY OR EASEMENT MUST BE ACCOMPANIED BY FERROUS METAL LINES TO AID IN TRACING THE LOCATION OF SAID UTILITIES THROUGH THE USE OF A METAL DETECTOR.
4. ALL PAVEMENTS ARE TO BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. THE DESIGN SHALL BE BASED ON A 20-YEAR DESIGN LIFE AND IN CONJUNCTION WITH RECOMMENDATIONS BASED UPON A SOILS REPORT OF SAMPLES TAKEN ALONG THE PROPOSED ROADWAYS. TEST BORINGS SHALL BE PLACED AT A MAXIMUM SPACING OF 500 FEET OR OTHER SAMPLING FREQUENCY APPROVED BY THE COUNTY ENGINEER BASED ON RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER. THE SOILS REPORT AND PAVEMENT DESIGN SHALL BE SUBMITTED TO THE COUNTY ENGINEER FOR REVIEW. THE PAVEMENT DESIGN MUST BE APPROVED BY THE COUNTY ENGINEER PRIOR TO OR CONCURRENTLY WITH THE REVIEW AND APPROVAL OF THE CONSTRUCTION PLANS. IN ADDITION TO THE BASIS OF THE PAVEMENT DESIGN, THE SOILS REPORT SHALL CONTAIN THE RESULTS OF SAMPLED AND TESTED SUBGRADE FOR PLASTICITY INDEX, PH, SULFATE CONTENT, AND MAXIMUM DENSITY.

B5 - SUBGRADE

- 1. THE PREPARATION OF THE SUBGRADE SHALL FOLLOW GOOD ENGINEERING PRACTICES AS DIRECTED BY THE COUNTY ENGINEER IN CONJUNCTION WITH RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT. WHEN THE PLASTICITY INDEX (PI) IS GREATER THAN 20, A SUFFICIENT AMOUNT OF LIME SHALL BE ADDED AS DESCRIBED IN ITEM 260 OF THE CURRENT EDITION OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION UNTIL THE PI IS LESS THAN 20. IF THE ADDITION OF LIME AS DESCRIBED IN ITEM 260 IS NOT FEASIBLE, AN ALTERNATE STABILIZING DESIGN SHALL BE PROPOSED AND SUBMITTED TO THE COUNTY ENGINEER FOR APPROVAL. THE SUBGRADE SHALL BE PREPARED AND COMPACTED TO ACHIEVE A DRY DENSITY PER TXDOT ITEM 132. IN ADDITION, PROOF ROLLING MAY BE REQUIRED BY THE COUNTY ENGINEER.
2. THE SUBGRADE SHALL BE INSPECTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY AND A CERTIFIED COPY OF ALL INSPECTION REPORTS FURNISHED TO THE COUNTY ENGINEER, WHO MUST APPROVE THE REPORT PRIOR TO APPLICATION OF THE BASE MATERIAL. ALL DESIGN TEST REPORTS SHALL INCLUDE A COPY OF THE WORK SHEET SHOWING THE PERCENTAGE OF THE MAXIMUM DRY (PROCTOR) DENSITY. THE NUMBER AND LOCATION OF ALL SUBGRADE TESTS SHALL BE DETERMINED BY THE COUNTY ENGINEER.

B6 - BASE MATERIAL

- 1. BASE MATERIAL SHALL CONFORM TO ITEM 247 OF THE CURRENT EDITION OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, "FLEXIBLE BASE". THE BASE MATERIAL SHALL BE TYPE A GRADE 1, TYPE A GRADE 2, OR AS APPROVED BY THE COUNTY ENGINEER.
2. EACH LAYER OF BASE COURSE SHALL BE TESTED FOR IN-PLACE DRY DENSITY AND MEASURED FOR COMPACTED THICKNESS. THE NUMBER AND LOCATION OF ALL BASE TEST SAMPLES SHALL BE DETERMINED BY THE COUNTY ENGINEER.
3. THE BASE SHALL BE PREPARED AND COMPACTED TO ACHIEVE A MINIMUM OF 100% OF THE MAXIMUM (PROCTOR) DRY DENSITY OR AS APPROVED BY THE COUNTY ENGINEER UPON RECOMMENDATION BY THE TESTING LABORATORY. THE MAXIMUM LIFT SHALL NOT EXCEED SIX INCHES. THE BASE MUST BE INSPECTED AND APPROVED BY AN INDEPENDENT TESTING LABORATORY AND A CERTIFIED COPY OF THE TEST RESULTS FURNISHED TO THE COUNTY ENGINEER FOR APPROVAL. PRIOR TO THE PLACEMENT OF THE FIRST LIFT OF BASE, THE STOCKPILE SHALL BE TESTED FOR THE SPECIFICATIONS FOUND IN ITEM 247 TABLE 1 AND THE RESULT FURNISHED TO THE COUNTY ENGINEER FOR APPROVAL.

B7 - BITUMINOUS PAVEMENT

- 1. URBAN ROADS REQUIRE A MINIMUM 2 INCH WEARING SURFACE OF HMA/C TYPE D. THE MIX SHALL BE FROM A TXDOT CERTIFIED PLANT. THE MIX DESIGN SHALL BE SUBMITTED TO THE COUNTY ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF THE MATERIAL. CONTRACTOR'S QUALITY CONTROL (QC/Q) TEST REPORTS SHALL BE SUBMITTED TO THE COUNTY ENGINEER ON A DAILY BASIS. AS A MINIMUM, DAILY QC TESTING ON THE PRODUCED MIX SHALL INCLUDE: SIEVE ANALYSIS TEX-200F, ASPHALT CONTENT TEX-210F, HVEEM STABILITY TEX-209F, LABORATORY COMPACTED DENSITY TEX-207F, AND MAXIMUM SPECIFIC GRAVITY TEX-222F. THE NUMBER AND LOCATION OF ALL HMA/C TESTS SHALL BE DETERMINED BY THE COUNTY ENGINEER WITH A MINIMUM OF THREE 6-INCH DIAMETER FIELD CORES SECURED AND TESTED BY THE CONTRACTOR FROM EACH DAY'S PAVING. EACH HMA/C COURSE SHALL BE TESTED FOR IN-PLACE DENSITY, BITUMINOUS CONTENT AND AGGREGATE GRADATION, AND SHALL BE MEASURED FOR COMPACTED THICKNESS. THE NUMBER AND LOCATION OF ALL HMA/C TEST SAMPLES SHALL BE DETERMINED BY THE COUNTY ENGINEER.
2. RURAL ROADS MAY USE EITHER THE SPECIFICATIONS FOUND IN SECTION B7.1 OR A TWO-COURSE SURFACE IN ACCORDANCE WITH ITEM 316. TREATMENT WEARING SURFACE, OF THE CURRENT EDITION OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION THE TYPE AND RATE OF ASPHALT AND AGGREGATE SHALL BE INDICATED ON THE PLANS AS A BASIS OF ESTIMATE AND SHALL BE DETERMINED AT THE PRECONSTRUCTION CONFERENCE. AGGREGATE USED IN THE MIX SHALL BE ON THE TXDOT QUALITY MONITORING SCHEDULE. AGGREGATE SHALL BE TYPE B GRADE 4. GRADATION TESTS SHALL BE REQUIRED FOR EACH 300 CUBIC YARDS OF MATERIAL PLACED WITH A MINIMUM OF TWO TESTS PER EACH GRADE PER EACH PROJECT. TEST RESULTS SHALL BE REVIEWED BY THE COUNTY ENGINEER PRIOR TO APPLICATION OF THE MATERIAL.

B8 - CONCRETE PAVEMENT

- 1. IN LIEU OF BITUMINOUS PAVEMENT, PORTLAND CEMENT CONCRETE PAVEMENT MAY BE USED. IN SUCH CASES, THE PAVEMENT THICKNESS SHALL BE A MINIMUM OF 9 INCHES OF CONCRETE, AND SHALL BE JOINTED AND REINFORCED IN ACCORDANCE WITH THE DETAIL INCLUDED IN APPENDIX J. THE MIX SHALL BE FROM A TXDOT CERTIFIED PLANT. THE MIX DESIGN SHALL BE SUBMITTED TO THE COUNTY ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF THE MATERIAL.

B9 - CONCRETE - GENERAL

- 1. UNLESS OTHERWISE SPECIFIED, CONCRETE SHALL BE IN ACCORDANCE WITH ITEM 421 OF THE CURRENT EDITION OF THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND BE PLACED IN ACCORDANCE WITH THE APPLICABLE ITEM.
2. ALL CONCRETE SHALL BE TESTED FOR COMPRESSIVE STRENGTH. ONE SET OF THREE CONCRETE TEST CYLINDERS SHALL BE MOLDED FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED FOR EACH CLASS OF CONCRETE PER DAY, OR AT ANY OTHER INTERVAL AS DETERMINED BY THE COUNTY ENGINEER. A SAMPING PLAN SHALL BE SUBMITTED TO THE COUNTY ENGINEER. ONE CYLINDER SHALL BE TESTED FOR COMPRESSIVE STRENGTH AT AN AGE OF SEVEN DAYS AND THE REMAINING TWO CYLINDERS SHALL BE TESTED AT 28 DAYS OF AGE.

TCEQ CZP NOTES

THIS CONSTRUCTION PROJECT IS SUBJECT TO THE CONDITIONS GIVEN IN THE EDWARDS AQUIFER PROTECTION PLAN (EAPP) APPROVED AND ISSUED FOR THIS SITE BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ). NO CONSTRUCTION ACTIVITIES MAY COMMENCE UNTIL THAT PLAN HAS BEEN ISSUED BY THE TCEQ. CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PUBLIC NOTICE POSTINGS RELATED TO THIS TCEQ PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

CONTRACTOR AND OWNER SHALL ALSO OBTAIN COVERAGE FOR STORMWATER DISCHARGES RELATED TO CONSTRUCTION ACTIVITIES UNDER THE TEXAS GENERAL PERMIT TXR150000. CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PUBLIC NOTICE POSTINGS RELATED TO THIS TCEQ PERMIT PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN GENERAL CONSTRUCTION NOTES:

- 1. 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.
2. 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.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. 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.
5. 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.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. 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.
10. 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.
11. 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 PONDS, 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.

AUSTIN REGIONAL OFFICE: 12100 PARK 35 CIRCLE, BUILDING A, AUSTIN, TEXAS 78753-1808, PHONE (512) 339-2929, FAX (512) 339-3799
SAN ANTONIO REGIONAL OFFICE: 14250 JUDSON ROAD, SAN ANTONIO, TEXAS 78233-448, PHONE (210) 490 3096, FAX (210) 545-4329

GENERAL NOTES

- 1. EXISTING TOPOGRAPHIC, BOUNDARY AND UTILITY INFORMATION AS SHOWN ON THESE DESIGN DOCUMENT(S) ARE BASED ON PLAN(S) TOPOGRAPHIC SURVEY 19,980 ACRES OUT OF RICHARD WEST SURVEY, ABSTRACT NO.643, PREPARED BY LANGAN ENGINEERING DATED 06/05/2024. ACTUAL SITE CONDITIONS MAY VARY FROM THOSE ENCOUNTERED AT THE TIME THE SURVEY DATA SHOWN HEREON WAS OBTAINED. PRIOR TO ANY USE OF THIS DATA, INCLUDING BUT NOT LIMITED TO DESIGN OR CONSTRUCTION, THE APPROPRIATE DATA CONFIRMATIONS SHALL BE MADE. BASED ON THE REFERENCED INFORMATION, ALL ELEVATIONS AND ESTABLISHED GRADES SHOWN HEREON REFER TO NAVD 88 DATUM.
2. THE CONTRACTOR SHALL BEGIN WORK AS DIRECTED BY THE OWNER/CITY OR THE NOTICE TO PROCEED.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS, AND INSPECTIONS PRIOR TO AND THROUGHOUT CONSTRUCTION.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS FOR THE OWNER/CITY'S USE. THE CONTRACTOR SHALL PROVIDE THE CITY CLEAN AND ACCURATE FULL SIZE REPRODUCIBLE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ALL CONSTRUCTION AND ANY DEVIATIONS FROM THE PLANS.
5. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE PROOFREAD AND REVIEWED BY THE GENERAL CONTRACTOR FOR APPROVAL PRIOR TO SUBMITTAL TO THE ENGINEER. SUBCONTRACTOR / GENERAL CONTRACTOR SHALL CLEARLY INDICATE, MARK, HIGHLIGHT, AND PROPERLY CLARIFY PRODUCTS TO BE CONSIDERED FOR APPROVAL. SUBMITTALS NOT PROOFREAD OR REVIEWED OR CLARIFIED PROPERLY SHALL BE RETURNED UNREVIEWED. CONTRACTOR SHALL RESUBMIT SHOP DRAWINGS AND ALLOW FOR SUITABLE REVIEW TIME. SUITABLE REVIEW TIME SHALL BE SEVEN (7) WORKING DAYS FOR TYPICAL SUBMITTALS AND LONGER DEPENDING ON THE SIZE AND NATURE OF THE SUBMITTAL.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL IN THE REQUIRED CONSTRUCTION SURVEYING AND MATERIALS TESTING. DIMENSIONS SHOWN AND DIGITAL FILES PROVIDED SHALL BE USED TO LAYOUT THE SITE.
7. ALL ADJACENT PROPERTY DAMAGED BY THE PROPOSED CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN WHICH IT WAS FOUND BEFORE SUCH WORK WAS UNDERTAKEN (NON-PAY ITEM).
8. ALL EFFORTS SHALL BE MADE TO AVOID DAMAGE TO EXISTING TREES THAT ARE TO REMAIN. TREES SHALL BE TRIMMED AND PAINTED ONLY IF NECESSARY FOR THE SAFE MANEUVERING OF CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM THE OWNER'S FIELD REPRESENTATIVE FOR REMOVAL OF ANY TREES. WHEN EXCAVATING AROUND A TREE, THE ROOTS SHALL BE CLEAN CUT PRIOR TO ANY EXCAVATION WORK. DO NOT SNAG AND TEAR TREE ROOTS.
9. ALL EXISTING FENCES ARE TO REMAIN UNLESS SPECIFIED OTHERWISE BY THE OWNERS REPRESENTATIVE. ANY DAMAGE TO FENCES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE WITH NEW AND LIKE MATERIALS. TEMPORARY CONSTRUCTION SITE SECURITY FENCES ARE REQUIRED.
10. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING DRIVEWAYS AND SIDEWALKS FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION AT ALL TIMES.
11. ALL EXCAVATION IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED TO INCLUDE BUT NOT BE LIMITED TO ROCK, RUBBLE, DEBRIS, TRASH, ETC. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE SPECIFIED OR AGREED TO BY OWNER.
12. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS, APPROVED BY THE CITY AND ENGINEER.
13. THE CONTRACTOR SHALL NOTIFY THE OWNER/CITY REPRESENTATIVE OF OFF-SITE EXCESS SPOILS SITES THAT ARE TO BE UTILIZED.
14. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND CITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES FOR THE ESTABLISHMENT OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
15. DISTURBED AREAS THAT ARE SEEDED SHALL BE CHECKED PERIODICALLY FOR FULL COVERAGE OF GRASS. ALL DISTURBED AREAS SHALL BE WATERED, FERTILIZED, AND SEEDED OR SODDED AS NECESSARY AND BY DEFINITION MAINTAINED UNTIL AN ESTABLISHED STAND OF GRASS CAN BE RELEASED TO THE OWNER. REFERENCE LANDSCAPE/IRRIGATION PLAN (IF PROVIDED) TO COORDINATE PLANTING ENHANCEMENTS AND LIMITS OF IRRIGATION COVERAGE.
16. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR ADJACENT RIGHT-OF-WAYS WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND THE CITY. ALL CONSTRUCTION WASTE MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A PERMITTED LOCATION OFF SITE, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY.
17. THE CONTRACTOR SHALL SET TWO (2) PERMANENT BENCHMARKS IN THE CITY COORDINATE SYSTEM. CONTRACTOR SHALL COORDINATE WITH CITY STAFF FOR RECORDED / APPROVED LOCATIONS.
EARTHWORK NOTES
1. PLACEMENT OF TOPSOIL TO WITHIN 0.10' OF FINISH GRADE. SEE TOPSOIL SPECIFICATION SHOULD IMPORTED MATERIAL BE NECESSARY.
2. AS A RESULT OF THE SITE GEOLOGY AND PROPOSED SITE PLAN, THE CONTRACTOR SHALL ESTABLISH A SOIL MANAGEMENT PLAN/OPERATION THROUGHOUT THE CONSTRUCTION PROCESS. ALL TOPSOIL SHALL BE SALVAGED AND STOCKPILED ON-SITE. STOCKPILED TOPSOIL MAY BECOME STERILE AND NON-FERTILE OVER TIME. THE CONTRACTOR SHALL AMEND AND SUPPLEMENT THE STOCKPILED TOPSOIL AS NECESSARY TO YIELD A FERTILE TOPSOIL SUPPLY. THE CONTRACTOR'S BID SHALL INCLUDE ALL NECESSARY TOPSOIL (IMPORT MAY BE REQUIRED) AS REQUIRED TO BACKFILL AND CROWN ALL LANDSCAPE ISLANDS AND LANDSCAPE AREAS. THE LACK OF AVAILABLE ON-SITE TOPSOIL WILL NOT BE GROUNDS FOR A CHANGE ORDER OR ADDITIONAL PAY.
PAVING NOTES
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF A MAXIMUM NUMBER OF PASSING FIELD DENSITY TESTS ON THE STABILIZED SUBGRADE FOR SITE PAVING EQUAL TO THE RATIO OF 1 PER 1,000 SQUARE FEET OF PAVEMENT AND ALL FAILING DENSITY TESTS AND REQUIRING OTHER MOISTURE DENSITY CURVES). ADDITIONAL FIELD DENSITY TESTS MAY BE REQUIRED FOR FOUNDATIONS. REFER TO STRUCTURAL PLANS AND SPECIFICATIONS FOR SUCH. IN ADDITION, THE CONTRACTOR SHALL PROVIDE THE OWNER TEN (10) PASSING SITE PAVEMENT CORES FOR THE OWNERS USE IN THE OWNERS TESTING FOR THICKNESS AND COMPRESSIVE STRENGTH. CORE LOCATIONS SHALL BE DESIGNATED BY THE OWNER. CONTRACTOR SHALL PATCH CORE HOLES AND FINISH WITH LIKE AND MATCHING MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TESTING COSTS FOR THE ABOVE TESTS FAIL MINIMUM CRITERIA AS ESTABLISHED BY NCTCOG. ANY NON-CONFORMING PAVING SHALL BE REPLACED OR RESOLVED IN ACCORDANCE WITH NCTCOG SPECIFICATIONS.
2. ALL EARTHWORK AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION AS PREPARED BY LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC. AND THOSE RECOMMENDATIONS LISTED WITHIN THE REPORT. REFER TO THIS REPORT FOR ALL EARTHWORK AND RELATED ITEMS. REFER TO STRUCTURAL FOR BUILDING PREP. THE REPORT REFERENCES AGENCY/INDUSTRY STANDARDS. IN THE EVENT THAT THERE IS A QUESTION OR DISPUTE BETWEEN GOVERNING SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY SUCH THAT THE OWNER RECEIVES THE MOST ADVANTAGEOUS FINISHED PRODUCT.
3. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUTS FROM THE SITE LAYOUT DIGITAL CONTROL POINTS AND FROM THE DIMENSIONS SHOWN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ADVANCE AND ALLOW FOR THE ENGINEER'S RESPONSE BEFORE PROCEEDING WITH THE WORK.
4. ALL PAVING DIMENSIONS ARE TO BACK OF CURB, AND EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE CITY AND THE ENGINEER WITH A CONCRETE MIX DESIGN AT THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL. THE COST OF THIS DESIGN SHALL BE INCLUDED IN THE UNIT PRICE OF PAVEMENT MATERIAL. FLY ASH IS NOT PERMITTED AS A SUBSTITUTE FOR CEMENT.
6. THE CONTRACTOR SHALL PROTECT ANY EXISTING AND/OR PROPOSED UTILITIES, WHICH ARE IN THE PROPOSED SUBGRADE DURING THE SUBGRADE STABILIZATION PROCESS.
7. CONTRACTOR SHALL ADJUST ALL UTILITIES (EXISTING AND PROPOSED) TO FINAL GRADE (NON-PAY ITEM). ALL UTILITIES AND APPURTENANCES SHALL BE EXTENDED UP TO FINAL GRADE. UTILITY CLEAN-OUTS, VALVES, MANHOLES, ETC. LOCATED WITHIN PAVED AREAS SHALL BE PAVED PER DETAIL. IN NON-PAVED AREAS, SAID APPURTENANCES SHALL HAVE A 4" THICK CONCRETE PAD EXTENDING 12" BEYOND SAID APPURTENANCE (BLOCK OUT) POURED AT FINAL GRADE FOR PROTECTION AGAINST DAMAGE FROM MOWING AND MAINTENANCE EQUIPMENT.
8. PRIOR TO PAVING INSTALLATION, CONTRACTOR TO REFERENCE ALL PLAN SHEETS TO IDENTIFY ALL SLEEVES AND CONDUIT NECESSARY TO SUPPORT FRANCHISE UTILITY SERVICES, TECHNOLOGY/SECURITY, SITE LIGHTING, IRRIGATION, ETC. CONTRACTOR SHALL CONFIRM WITH OWNER AND/OR OWNERS REPRESENTATIVE TO VERIFY SIZE, LOCATION, AND QUANTITY.
9. UNLESS OTHERWISE NOTED, SUBGRADE SHALL BE STABILIZED TO 12" BEYOND THE BACK OF CURB OR EDGE OF PAVEMENT PER GEOTECH RECOMMENDATIONS UNLESS STATED OTHERWISE. ALL CONCRETE STRENGTH AND REINFORCING STEEL SHALL BE PER PROJECT GEOTECHNICAL RECOMMENDATIONS. FIRE LANES, PARKING STALLS, AND ROADWAY STRIPING & MARKINGS SHALL CONFORM TO CITY STANDARDS. SIDEWALKS WITHIN LANDSCAPE AREAS SHALL BE MINIMUM 4" THICK. LARGE EXPANSIONS OF CONCRETE FLATWORK (SUCH AS MAJOR PEDESTRIAN AREAS, PLAZA AREAS BETWEEN BUILDINGS OR OTHER STRUCTURES) SHALL BE TREATED LIKE VEHICULAR CONCRETE PAVEMENT AND RECEIVE SAME SUBGRADE STABILIZATION AS VEHICULAR PAVEMENT (6" DEEP MINIMUM AND IN ACCORDANCE WITH SUBGRADE RECOMMENDATION) AND ALL JOINTS (CONTRACTION AND EXPANSION JOINTS) SHALL BE SEALED WITH SELF-HEALING POLYURETHANE SEALANT.
10. ALL PAVEMENT WITHIN 5' OF PROPOSED BUILDING(S) SHALL ADHERE TO THE STRUCTURAL RECOMMENDATIONS AND OR ARCHITECTURAL REQUIREMENTS. REFER TO STRUCTURAL AND ARCHITECTURAL PLANS AND RELATED TECHNICAL SPECIFICATIONS. CIVIL PAVEMENT LIMITS BEGIN 5' OUTSIDE THE BUILDING. IN THE EVENT OF A CONFLICT WITH THE STRUCTURAL AND OR ARCHITECTURAL, WITHIN THIS AREA, THE STRUCTURAL/ARCHITECT REQUIREMENTS SHALL GOVERN.
11. FOR "CURB INLETS" SUBTRACT 0.5" (6 INCHES) FOR STANDARD THROAT RECESS AT INLETS PER STANDARD DETAILS. SURROUNDING PAVEMENT AND GUTTER SHALL BE WARPED TO DRAIN FOR INLETS ON GRADE AND S&G INLETS. INLETS ON GRADE SHALL BE SET IN PLACE TO MATCH THE CURB GRADE LINE.
12. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
13. CONNECTION OF THE PROPOSED SIDEWALK TO EXISTING PAVING, SIDEWALK, BUILDING, AND WHEELCHAIR RAMPS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE CONSTRUCTION OF THE SIDEWALK. ALL JOINTS (EXPANSION, ISOLATION, CONTRACTION, & CONSTRUCTION) FOR CONCRETE PAVING AND INCIDENTAL CRACKS SHALL BE SEALED AND INSTALLED IN ACCORDANCE WITH THE AMERICAN CONCRETE PAVEMENT ASSOCIATION (ACPA) RECOMMENDATIONS. CONTRACTOR SHALL OBSERVE THE ARCHITECTURAL AND STRUCTURAL JOINT LAYOUTS. IN THE EVENT OF A DISCREPANCY OR CONFLICT FOR SITE PAVING, THE CONTRACTOR SHALL REFER TO ACPA PUBLICATION IS061.01P AND IS400.01P FOR THE JOINT SPECIFICATIONS AND THE LAYOUT OF PAVEMENT JOINTS (NON-PAY ITEM).
14. JOINT SPACING SHALL BE AS FOLLOWS:
5 INCH PAVEMENT THICKNESS - 10' JOINT SPACING
6+ INCH PAVEMENT THICKNESS - 15' JOINT SPACING OR PER PROJECT GEOTECHNICAL RECOMMENDATIONS
IN AREAS WHERE PAVEMENT THICKNESS VARIES, THE SHORTER JOINT SPACING SHALL GOVERN
15. THE CONTRACTOR SHALL USE CARE DURING SOIL STABILIZATION AND COMPACTION ACTIVITIES SO AS NOT TO ADVERSELY AFFECT LANDSCAPE AREAS OR UTILITY LINES WITH SOIL STABILIZATION TREATMENTS. AFTER COMPACTION AND PRIOR TO PLACING GRASS, THE UPPER 8 INCHES (8") OF ALL LANDSCAPED AREAS SHALL BE BEARING TILLED, OR OTHERWISE PROCESSED SO AS TO PROMOTE HEALTHY ROOT GROWTH FOR TURF AND OTHER VEGETATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY REPAIRS, UNDERCUTTING, REMOVAL, DISPOSAL, AND BACKFILLING OF THESE AREAS IF STABILIZATION IS DISCOVERED (NON-PAY ITEM).

Table with 3 columns: Date, Description, No.

Revisions



LANGAN Langan Engineering and Environmental Services, LLC. 9606 N. Mopac Expressway, Suite 110, Austin, TX 78759. T: 737.289.7800 F: 737.289.7801 www.langan.com

Project CONNER TRACT BAN PARKING ADDITION

WILLIAMSON COUNTY TEXAS Drawing Title

GENERAL & TCEQ NOTES

Table with 2 columns: Project No. (531013327), Drawing No. (C1.1). Includes Date (12/05/2025) and Checked By (AM, MH).

LANGAN

Project No. 531013327

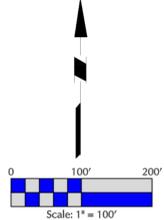
© 2025 Langan

TITLE COMMITMENT NOTES:

This survey was performed with the benefit of a title commitment provided by First American Title Guaranty Company, CF# 2865496-AU10, Commitment# 2865496-AU10, effective March 26, 2024, and issued April 11, 2024. Complete copies of the record description of the property, any record easements benefiting the property, the record easements or servitudes and covenants affecting the property ("Record Documents"), documents of record referred to in the Record Documents, and any other documents containing desired information affecting the property being surveyed and to which the survey shall make reference were not provided to this surveyor for notation on the survey except for those items listed within Schedule B of said commitment. Therefore, easements, agreements, or other documents, either recorded, or unrecorded may exist that affect the subject property that are not shown on this survey.

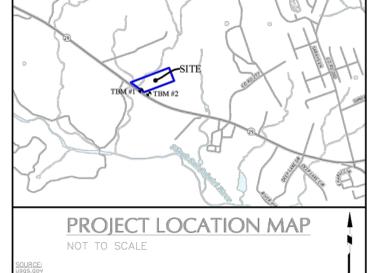
The following Schedule B items were addressed according to the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys Section 6(c)(ii) and identified by the tract designator listed in the title commitment.

Table with 4 columns: Schedule B Exception #, Recording Information (may include grantee and exception type), Label Civil Location (see edge of sheet 1 for grid labels), and a grid of checkboxes for various survey items.



MONUMENTS / DATUMS / BEARING BASIS
Monuments are found if not marked MNS or CRS.
CRS 1/2" rebar stamped "LANGAN" set
MNS Mag nail & washer stamped "LANGAN" set
TBM Site benchmark (see vicinity map for general location)
Vertex or common point (not a monument)
Coordinate values, if shown, are U.S. S.F./T.C.S./83, C.Z.
Elevations, if shown, are NAVD'88 (Geoid 18)
Bearings are based on the T.C.S./83, C.Z.
Distances and areas shown are represented in surface values
TYPE I TXDOT Right of Way tapered concrete monument.
TYPE II TXDOT Right of Way tapered concrete monument.
MAG Mag nail found

LEGEND OF ABBREVIATIONS
U.S. S.F. United States Survey Feet
T.C.S./83, C.Z. Texas Coordinate System of 1983, Central Zone
NAVD'88 North American Vertical Datum of 1988
P.R.W.C.T. Plat Records of Williamson County, Texas
O.P.R.W.C.T. Official Public Records of Williamson County, Texas
D.R.W.C.T. Deed Records of Williamson County, Texas
W.C.A.D. Williamson Central Appraisal District
VOL./PG./INST# Volume/Page/Instrument Number
POB/POC Point of Beginning/Point of Commencing
ESMT/BL Easement/Building Line
PVC/RCP Polyvinyl Chloride Pipe/Reinforced Concrete Pipe
CMP Corrugated Metal Pipe
FFE Finished Floor Elevation
S.F. Square Feet



SURVEYOR'S NOTES:

- 1. The first site benchmark (TBM #1) is a mag nail with metal washer stamped "LANGAN BENCHMARK" set in a concrete culvert headwall along the north margin of State Highway No. 29, located approximately 19 feet southwesterly from the north right-of-way line of State Highway No. 29, and approximately 152 feet northwesterly from the south corner of 19,980 acre subject property. Benchmark Elevation = 1,027.48' (NAVD'88). See vicinity map for general location.
The second site benchmark (TBM #2) is a mag nail with metal washer stamped "LANGAN BENCHMARK" set in a concrete curb for driveway entering a property along the north margin of State Highway No. 29, located approximately 58 feet northeasterly from the north right-of-way line of State Highway No. 29, and approximately 204 feet southeasterly from the south corner of 19,980 acre subject property. Benchmark Elevation = 1,035.06' (NAVD'88). See vicinity map for general location.
2. Subject property's record description's error of closure is approximately 0.01'.
3. The address for the surveyed property is 16750 W. State Highway 29 as shown on the Williamson County Appraisal District website. No address posted found.
4. Only trees with diameters of 6 inches or greater at chest height were located for the purpose of this survey. This excludes low-quality trees such as but not limited to, Chinaberry, Hackberry, Ashe Juniper, (Cedar), Chinese Tallow, Horse Apple and Mesquite.
5. The site surface is natural ground/dirt, unless noted otherwise.
6. There are no identifiable and visibly marked parking spaces or fire lane striping on the subject property.

UTILITY WARNING

Regarding Table A Items 11(a) & 11(b), unless otherwise stated, the client or client's representative did not provide LANGAN with plans and/or reports, and LANGAN did not coordinate a private utility locate request. If these Table A items are listed in the certification, the client, being aware of the factors listed above, has agreed for these Table A items to be addressed from a combination of online GIS maps, markings from locate requests to municipalities and 811 and observed evidence of utilities. The client is aware locate requests to 811 and the like, may be ignored or result in an incomplete response, in which case utilities may not have been marked, or not completely marked, at the time the fieldwork was performed. Therefore, utilities may exist which are not shown on this survey. Lacking excavation and/or a private utility locate request, the exact location of underground features cannot be accurately, completely, and reliably depicted.

FLOOD ZONE CLASSIFICATION

This property lies within ZONES X (unshaded) of the Flood Insurance Rate Map for Williamson County, Texas and Incorporated Areas, map no. 48491C0240F, dated 2019/12/20, via scaled map location and graphic plotting and/or the National Flood Hazard Layer (NFHL) Web Map Service (WMS) at http://hazards.fema.gov.

LIBERTY HILL WASTEWATER MAP NOT TO SCALE



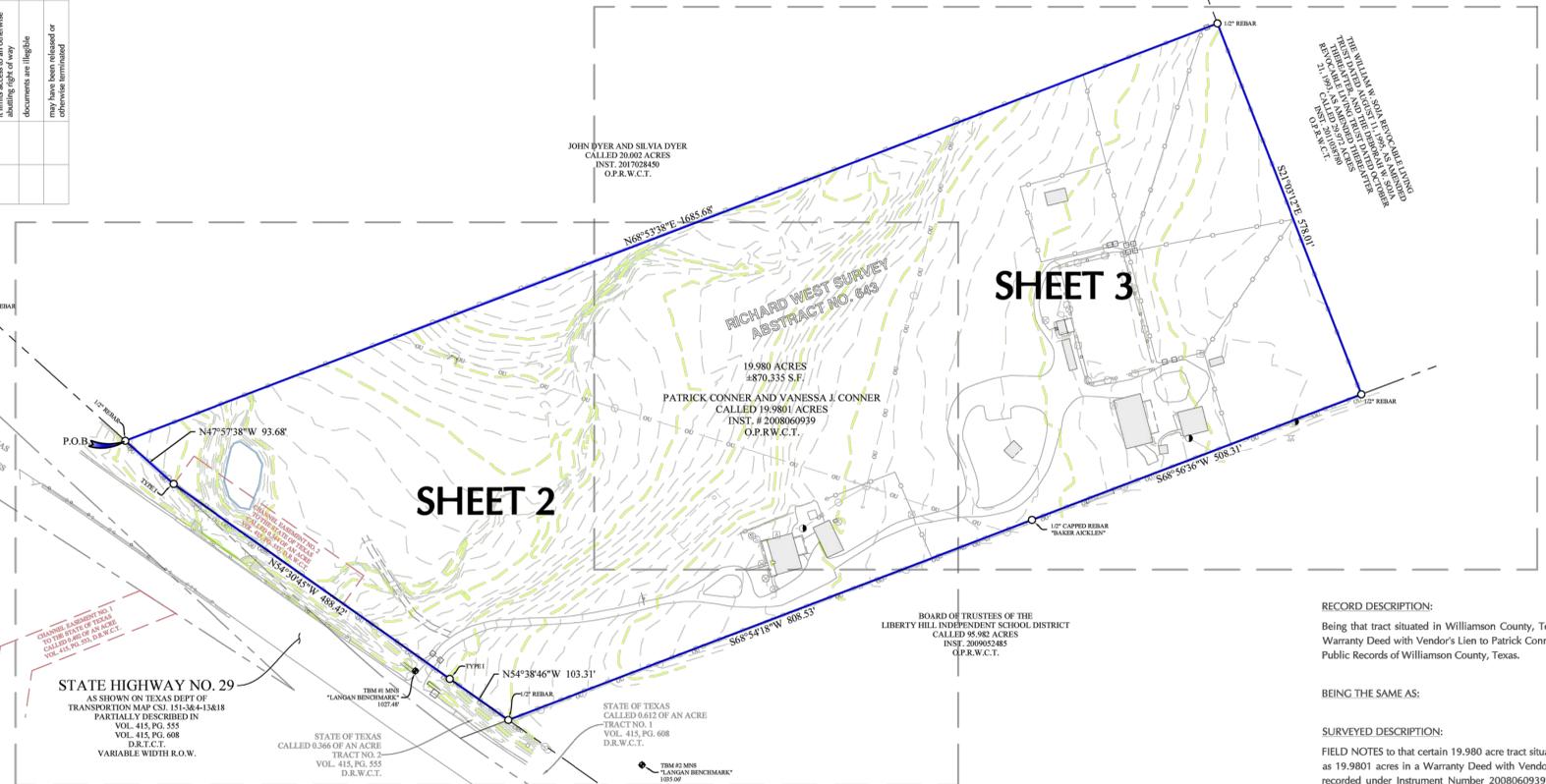
GIS UTILITY LEGEND (APPROX)

Legend for GIS utilities: WATER (blue line), SEWER (green line), FIBER (red line), ELECTRIC (yellow line), GAS-OIL-STEAM (orange line), COMMUNICATION-CATV (purple line), WATER (light blue line), SEWER (light green line), MISCELLANEOUS (grey line).

TEXAS811 MARKED UTILITY LEGEND

Legend for Texas811 marked utilities: ELECTRIC (E), GAS-OIL-STEAM (G), COMMUNICATION-CATV (C), WATER (W), SEWER (S), MISCELLANEOUS (M).

NOTE REGARDING UTILITIES: Utility locations are per observed evidence and sources listed below: TEXAS811 - ticket number(s) 2462047771. https://portal.texas811.org/ticket/2462047771. GIS MAPS - Provided by City of Liberty Hill Interactive GIS Map https://www.libertyhilltx.gov/549/Maps-and-Guides



RECORD DESCRIPTION:

Being that tract situated in Williamson County, Texas out of the Richard West Survey, Abstract No. 643, described as 19,980 acres in a Warranty Deed with Vendor's Lien to Patrick Conner and Vanessa J. Conner, recorded under Instrument Number 2008060939 of the Official Public Records of Williamson County, Texas.

BEING THE SAME AS:

SURVEYED DESCRIPTION:

FIELD NOTES to that certain 19,980 acre tract situated in Williamson County, Texas out of Richard West Survey, Abstract No. 643, described as 19,980 acres in a Warranty Deed with Vendor's Lien to Patrick Conner and Vanessa J. Conner (hereinafter referred to as Conner tract), recorded under Instrument Number 2008060939 of the Official Public Records of Williamson County, Texas; the subject tract is more particularly described as follows (bearings are based on the Texas Coordinate System of 1983, Central Zone):

- BEGINNING at an 1/2-inch rebar found in the east right-of-way line of State Highway No. 29 (a variable width right-of-way as shown TXDOT Map CSJ 151-384-13&18, and partially described in Volume 415, Page 555 and Page 608 of the Deed Records of Williamson County Texas) at the common west corner of said Conner tract and that tract described as 20,002 acres in a Warranty Deed to John Dyer and Silvia Dyer (hereinafter referred to as Dyer tract), recorded under Instrument Number 2017028450 of said Official Public Records;
THENCE NORTH 68° 53' 38" EAST, along the common line of said Dyer tract and said Conner tract, a distance of 1685.68 feet to a 1/2-inch rebar found in the west line of that tract described as 29,972 acres in a Warranty Deed to The William W. and Deborah W. Soja Revocable Living Trust (hereinafter referred to as Soja tract), recorded under Instrument Number 2011038780 of said Official Public Records; at the common east corner of said Dyer tract and said Conner tract;
THENCE SOUTH 21° 03' 12" EAST, along the common line of said Soja tract and said Conner tract, a distance of 578.01 feet to a 1/2-inch rebar found in the north line of that tract described as 95,982 acres in a Warranty Deed to Board of Trustees of the Liberty Hill Independent School District (hereinafter referred to as LHISD tract), recorded under Instrument Number 2009052485 of said Official Public Records;
THENCE along the common line of said LHISD tract and said Conner tract the following calls:
1. SOUTH 68° 56' 36" WEST, a distance of 508.31 feet to a 1/2-inch capped rebar stamped "BAKER AICKLEN" found;
2. SOUTH 68° 54' 18" WEST, a distance of 808.53 feet to a 1/2-inch rebar found in the east right-of-way line of said State Highway No. 29, at the common west corner of said LHISD tract and said Conner tract;
THENCE along the common line of said State Highway No. 29 and said Conner tract the following calls:
1. NORTH 54° 38' 46" WEST, a distance of 103.31 feet to a TXDOT tapered concrete monument (TYPE I) found;
2. NORTH 54° 30' 45" WEST, a distance of 488.42 feet to a TXDOT tapered concrete monument (TYPE I) found;
3. NORTH 47° 57' 38" WEST, a distance of 93.68 feet, returning to the POINT OF BEGINNING and enclosing 19,980 acres of land.

To: Liberty Hill Independent School District
First American Title Guaranty Company
First American Title Insurance Company;

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 5, 7B1, 8, 9, 11a, 11b, & 13 of Table A thereof. The fieldwork was completed on May 29, 2024.

Chris Henderson
Registered Professional
Land Surveyor No. 6831
CHenderson@langan.com
June 7, 2024



LANGAN logo and contact information: Langan Engineering and Environmental Services, LLC, 9606 N. Mopac Expressway, Suite 110, Austin, TX 78759. Phone: 737.289.7800, Fax: 737.289.7801, www.langan.com. TBPELS Firm No. 10194888.

Project information: 19,980 ACRES SITUATED IN THE RICHARD WEST SURVEY, ABSTRACT NO. 643 16750 W. STATE HIGHWAY 29 CITY OF LIBERTY HILL TX TEXAS

Drawing Title: ALTA/NSPS LAND TITLE SURVEY

Project No. 531013318, Date 2024/06/05, Drawn By R. GONZALES, Checked By C. HENDERSON, Sheet 1 of 5

Table with 3 columns: Date, Description, No. Revisions.

LANGAN logo and contact information: Langan Engineering and Environmental Services, LLC, 9606 N. Mopac Expressway, Suite 110, Austin, TX 78759. Phone: 737.289.7800, Fax: 737.289.7801, www.langan.com. TBPES Firm REG. #F-13709.

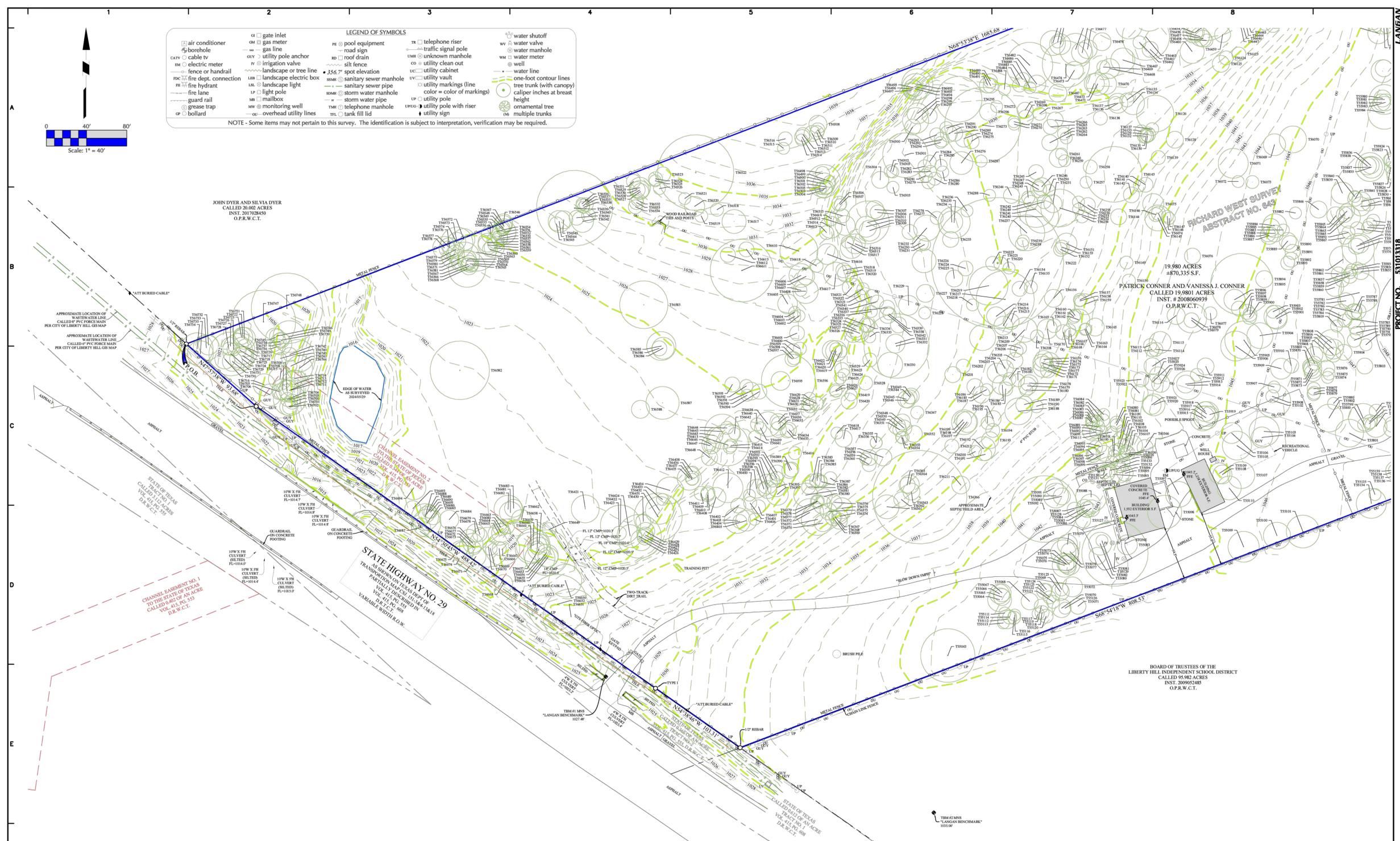
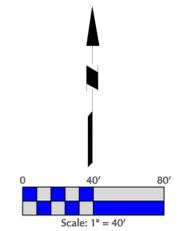
CONNER TRACT BAND PARKING ADDITION

LIBERTY HILL TEXAS

TOPOGRAPHIC SURVEY (1 OF 5)

Table with 2 columns: Project No. 531013327, Drawing No. C1.2. Date 12/05/2025, Drawn By AM, Checked By MH. Sheet 3 of 18.

- LEGEND OF SYMBOLS**
- |                         |                          |                          |                                                     |                                   |
|-------------------------|--------------------------|--------------------------|-----------------------------------------------------|-----------------------------------|
| □ air conditioner       | ○ gate inlet             | ■ pool equipment         | □ telephone riser                                   | ⊕ water shutoff                   |
| ○ borehole              | ○ gas meter              | — road sign              | — traffic signal pole                               | ○ water valve                     |
| ○ cable tv              | — gas line               | — roof drain             | ○ unknown manhole                                   | ○ water meter                     |
| ○ electric meter        | ○ utility pole anchor    | — silt fence             | ○ utility clean out                                 | ○ well                            |
| — fence or handrail     | — landscape or tree line | • 356.7' spot elevation  | □ utility cabinet                                   | — water line                      |
| — fire dept. connection | — landscape electric box | — sanitary sewer manhole | □ utility vault                                     | — one-foot contour lines          |
| — fire hydrant          | — landscape light        | — sanitary sewer pipe    | — utility markings (line color = color of markings) | ○ tree trunk (with canopy)        |
| — fire lane             | — light pole             | — storm water manhole    | — utility pole                                      | ○ caliper inches at breast height |
| — guard rail            | — mailbox                | — storm water pipe       | — utility pole with riser                           | ○ ornamental tree                 |
| — grease trap           | — monitoring well        | — telephone manhole      | — utility sign                                      | ○ multiple trunks                 |
| ○ bollard               | — overhead utility lines | — tank fill lid          |                                                     |                                   |
- NOTE - Some items may not pertain to this survey. The identification is subject to interpretation, verification may be required.



PROJECT NO. 531013318

| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |

**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TBPB Firm Reg. #F-13709

**CONNER TRACT BAND PARKING ADDITION**

LIBERTY HILL  
WILLIAMSON COUNTY TEXAS

**TOPOGRAPHIC SURVEY (2 OF 5)**

|                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                             |                          |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------|---------------------|
| <p><b>LANGAN</b><br/>Langan Engineering and Environmental Services, LLC.<br/>9606 N. Mopac Expressway, Suite 110<br/>Austin, TX 78759<br/>T: 737.289.7800 F: 737.289.7801 www.langan.com<br/>TBPB Firm No. 10194888</p> | <p>Project <b>19.980 ACRES</b><br/>SITUATED IN THE<br/><b>RICHARD WEST SURVEY,</b><br/>ABSTRACT NO. 643<br/>16750 W. STATE HIGHWAY 29<br/>CITY OF LIBERTY HILL (ET)</p> | <p>Drawing Title<br/><b>ALTA/NSPS LAND TITLE SURVEY</b></p> | Project No.<br>531013318 | Drawing No.<br>V-01 |
|                                                                                                                                                                                                                         |                                                                                                                                                                         |                                                             | Date<br>2024/06/05       | 01                  |
| <p>Drawn By<br/>R. GONZALES</p>                                                                                                                                                                                         |                                                                                                                                                                         | <p>Checked By<br/>C. HENDERSON</p>                          |                          | <p>Sheet 2 of 5</p> |

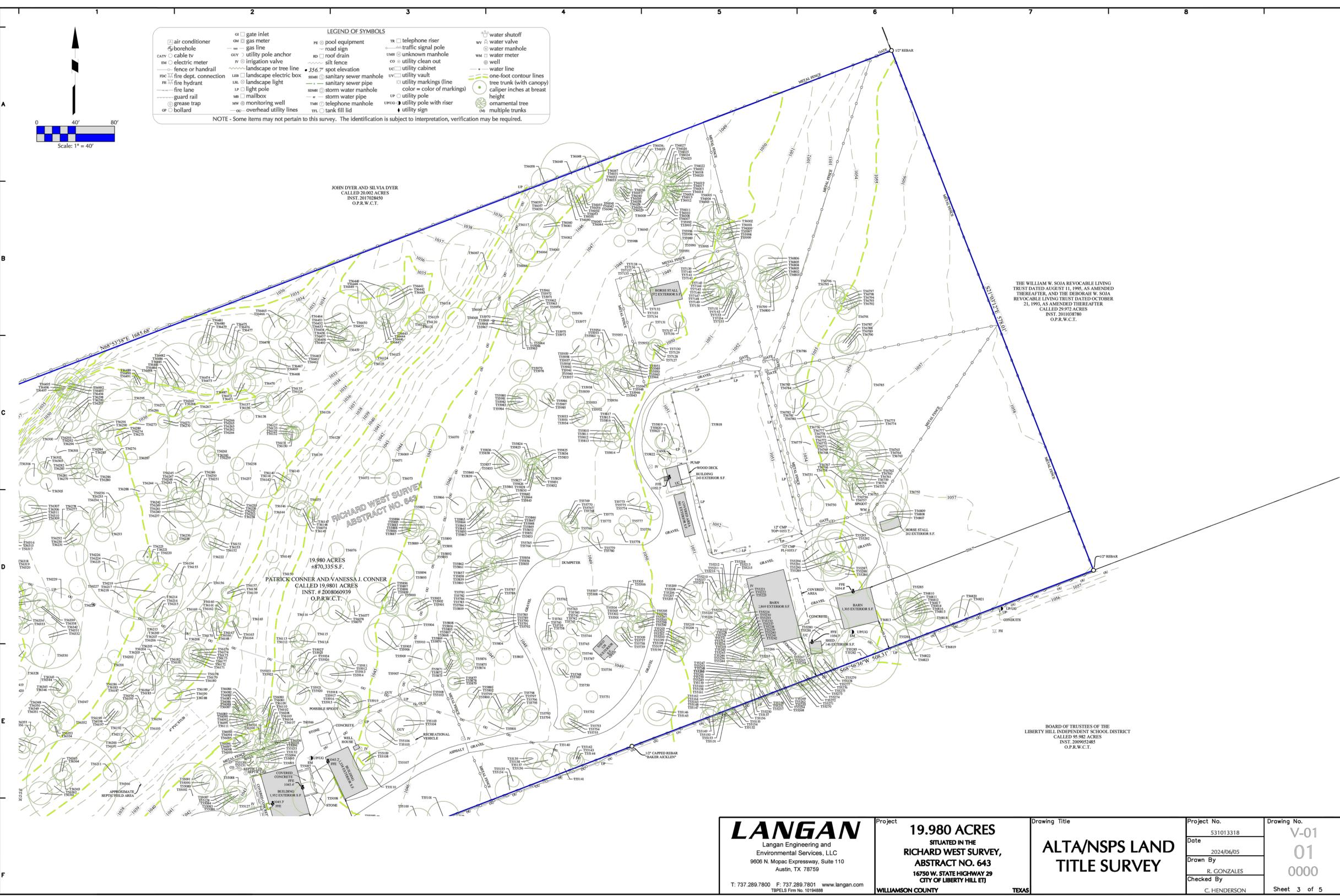
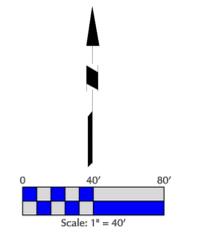
|                          |                     |
|--------------------------|---------------------|
| Project No.<br>531013327 | Drawing No.<br>C1.3 |
| Date                     |                     |
| Drawn By<br>AM           |                     |
| Checked By<br>MH         | Sheet 3 of 18       |

LANGAN Project No. 531013327 © 2025 Langan

**LEGEND OF SYMBOLS**

|                         |                          |                          |                                                     |                                   |
|-------------------------|--------------------------|--------------------------|-----------------------------------------------------|-----------------------------------|
| □ air conditioner       | ○ gate inlet             | ■ pool equipment         | ⊠ telephone riser                                   | ⊕ water shutoff                   |
| ○ borohole              | — gas line               | — road sign              | — traffic signal pole                               | ⊕ water valve                     |
| — cable tv              | — utility pole anchor    | — roof drain             | ⊕ unknown manhole                                   | ⊕ water meter                     |
| ⊕ electric meter        | — irrigation valve       | — landscape or tree line | — silt fence                                        | — well                            |
| — fence or handrail     | — landscape electric box | — 356.7' spot elevation  | — sanitary sewer pipe                               | — water line                      |
| — fire dept. connection | — landscape light        | — sanitary sewer manhole | — utility vault                                     | — one-foot contour lines          |
| — fire hydrant          | — light pole             | — storm water manhole    | — utility markings (line color = color of markings) | — tree trunk (with canopy)        |
| — fire lane             | — mailbox                | — storm water pipe       | — utility pole                                      | — caliper inches at breast height |
| — guard rail            | — monitoring well        | — telephone manhole      | — utility pole with riser                           | — ornamental tree                 |
| — grease trap           | — overhead utility lines | — tank fill lid          | — utility sign                                      | — multiple trunks                 |
| — bollard               |                          |                          |                                                     |                                   |

NOTE - Some items may not pertain to this survey. The identification is subject to interpretation, verification may be required.



| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |

**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TPEI FIRM REG. #F-13709

Project **CONNER TRACT BAND PARKING ADDITION**

LIBERTY HILL  
WILLIAMSON COUNTY TEXAS

Drawing Title  
**TOPOGRAPHIC SURVEY (3 OF 5)**

|             |           |
|-------------|-----------|
| Project No. | 531013327 |
| Date        |           |
| Drawn By    | AM        |
| Checked By  | MH        |
| Drawing No. | C1.4      |
| Sheet       | 3 of 18   |

**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TPEI FIRM No. 10194888

Project **19.980 ACRES**  
SITUATED IN THE  
**RICHARD WEST SURVEY,**  
ABSTRACT NO. 643  
16750 W. STATE HIGHWAY 29  
CITY OF LIBERTY HILL ETJ  
WILLIAMSON COUNTY TEXAS

Drawing Title  
**ALTA/NSPS LAND TITLE SURVEY**

Project No. 531013318  
Date 2024/06/05  
Drawn By R. GONZALES  
Checked By C. HENDERSON  
Sheet 3 of 5

Filename: \langan.com\531013318\Project Data\_Disc\In\Survey\CAD\031013318-V-16750 W. St. Hwy 29 Liberty Hill, Williamson Co., TX-ALTA.dwg Date: 6/7/2024 Time: 17:24 User: rgonzales Dwg Title: 3PH Land Surveying.dwg Layout: ARCH-ALTA-SHEET 3



| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |

**LANGAN**  
 Langan Engineering and Environmental Services, LLC.  
 9606 N. Mopac Expressway, Suite 110  
 Austin, TX 78759  
 T: 737.289.7800 F: 737.289.7801 www.langan.com  
 TBPIC Firm Reg. #F-13709

**CONNER TRACT BAND PARKING ADDITION**

LIBERTY HILL TEXAS  
 Drawing Title  
**C1.6 TOPOGRAPHIC SURVEY (5 OF 5)**

|                                 |                            |
|---------------------------------|----------------------------|
| Project No.<br><b>531013327</b> | Drawing No.<br><b>C1.6</b> |
| Date<br>2024/06/05              | Sheet 3 of 18              |
| Drawn By<br>AM                  |                            |
| Checked By<br>MH                |                            |

**LANGAN**  
 Langan Engineering and Environmental Services, LLC.  
 9606 N. Mopac Expressway, Suite 110  
 Austin, TX 78759  
 T: 737.289.7800 F: 737.289.7801 www.langan.com  
 TBPIC Firm No. 10194688

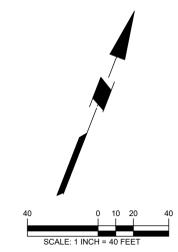
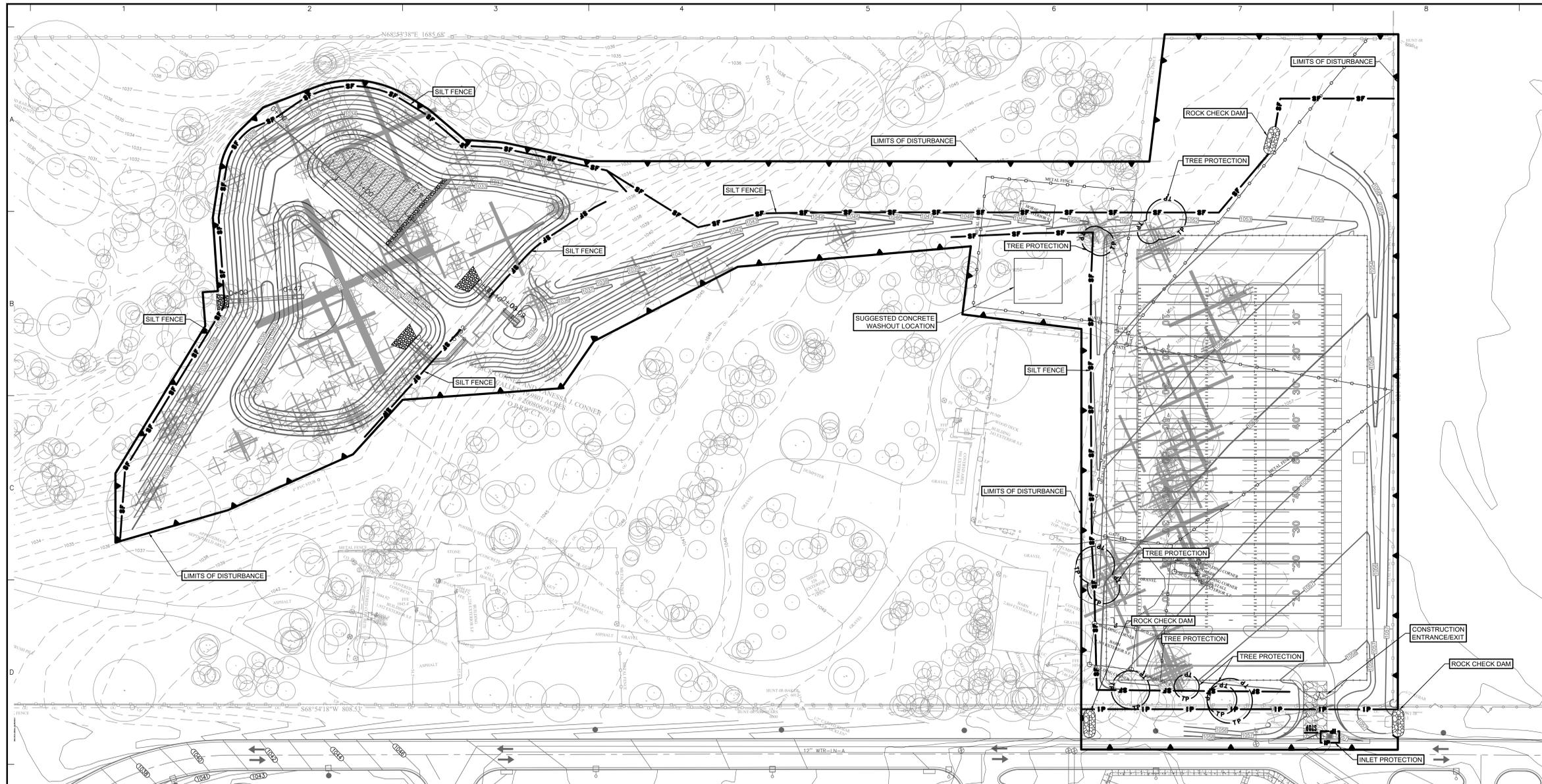
Project  
**19.980 ACRES**  
 SITUATED IN THE  
**RICHARD WEST SURVEY,  
 ABSTRACT NO. 643**  
 16750 W. STATE HIGHWAY 29  
 CITY OF LIBERTY HILL ET  
 WILLIAMSON COUNTY TEXAS

Drawing Title  
**ALTA/NSPS LAND TITLE SURVEY**

Project No.  
531013318  
 Drawing No.  
V-01  
01  
0000  
 Date  
2024/06/05  
 Drawn By  
R. GONZALES  
 Checked By  
C. HENDERSON  
 Sheet 5 of 5

| POINT | SIZE & SPECIES | POINT | SIZE & SPECIES | POINT | SIZE & SPECIES                     | POINT | SIZE & SPECIES                   | POINT | SIZE & SPECIES | POINT | SIZE & SPECIES                | POINT | SIZE & SPECIES           | POINT | SIZE & SPECIES | POINT | SIZE & SPECIES | POINT | SIZE & SPECIES |       |          |       |                                    |       |                     |       |         |       |                                   |       |              |       |                |       |        |       |          |       |               |       |               |       |         |       |              |       |                |       |              |       |                        |       |        |       |          |       |                     |       |                |       |        |       |               |       |              |       |                |       |                                         |       |                                      |       |        |       |                           |       |                          |       |               |       |                |       |                      |       |                            |       |                          |       |        |       |                        |       |                                   |       |           |       |                       |       |              |       |           |       |        |       |                 |       |         |       |              |       |              |       |              |       |              |       |              |       |          |       |              |       |                |       |              |       |           |       |           |       |        |       |          |       |        |       |        |       |        |       |        |       |                              |       |                    |       |        |       |          |       |                     |       |        |       |                |       |              |       |                   |       |        |       |        |       |        |       |        |       |          |       |        |       |        |       |        |       |                      |       |          |       |          |       |                      |       |        |       |                    |       |                |       |        |       |        |       |                |       |              |       |              |       |                |       |              |       |        |       |        |       |        |       |        |       |        |       |                 |       |        |       |        |       |                                  |       |        |       |          |       |                      |       |        |       |         |       |        |       |        |       |        |       |          |       |        |       |          |       |                    |       |          |       |        |       |        |       |        |       |        |       |          |       |        |       |         |       |          |       |          |       |          |       |                         |       |          |       |          |       |          |       |          |       |                            |       |        |       |        |       |                         |       |         |       |        |       |                      |       |        |       |           |       |        |       |           |       |        |       |          |       |          |       |                                       |       |                                |       |                      |       |                          |       |          |       |                 |       |              |       |              |       |              |       |                           |       |                |       |                             |       |                |       |          |       |                                |       |          |       |          |       |          |       |          |       |                |       |              |       |              |       |        |       |                            |       |                    |       |        |       |                            |       |                           |       |         |       |           |       |                         |       |                         |       |                         |       |              |       |                              |       |                              |       |                |       |        |       |                      |       |        |       |                    |       |                |       |        |       |        |       |                |       |              |       |              |       |                |       |              |       |              |       |              |       |              |       |                |       |              |       |              |       |              |       |                                |       |              |       |                |       |              |       |              |       |                                    |       |                |       |              |       |                             |       |              |       |              |       |        |       |                 |       |                        |       |                        |       |               |       |               |       |                 |       |                                    |       |                 |       |                             |       |                         |       |         |       |                               |       |               |       |          |       |                |       |               |       |              |       |                                 |       |        |       |              |       |                                  |       |               |       |                |       |        |       |                            |       |                         |       |        |       |                    |       |        |       |        |       |        |       |               |       |               |       |              |       |          |       |                     |       |         |       |          |       |                             |       |              |       |        |       |          |       |              |       |              |       |               |       |        |       |          |       |         |       |                       |       |         |       |               |       |        |       |        |       |               |       |        |       |        |       |         |       |           |       |           |       |         |       |        |       |           |       |           |       |        |       |          |       |                 |       |         |       |        |       |                          |       |                        |       |          |       |         |       |               |       |          |       |         |       |        |       |          |       |        |       |          |       |                          |       |         |       |         |       |         |       |         |       |         |       |         |       |          |       |         |       |        |       |        |       |        |       |        |       |        |       |                         |       |         |       |          |       |        |       |         |       |           |       |                       |       |         |       |                        |       |                            |       |        |       |          |       |                    |       |        |       |        |       |                      |       |        |       |         |       |                      |       |         |       |         |       |         |       |         |       |        |       |          |       |                    |       |          |       |          |       |        |       |          |       |        |       |           |       |                      |       |         |       |        |       |        |       |                        |       |                     |       |        |       |         |       |           |       |                        |       |           |       |         |       |          |       |           |       |           |       |                        |       |                                 |       |         |       |          |       |        |       |           |       |        |       |         |       |           |       |         |       |                      |       |           |       |          |       |          |       |        |       |                    |       |           |       |           |       |         |       |        |       |         |       |           |       |           |       |           |       |           |       |           |       |           |       |           |       |          |       |         |       |             |       |         |       |         |       |           |       |                      |       |          |       |        |       |        |       |                   |       |                     |       |                            |       |                |       |                          |       |                   |       |                       |       |                              |       |                 |       |           |       |         |       |                       |       |                         |       |                             |       |           |       |          |       |        |       |        |       |        |       |        |       |          |       |          |       |          |       |        |       |          |       |          |       |                     |       |        |
|-------|----------------|-------|----------------|-------|------------------------------------|-------|----------------------------------|-------|----------------|-------|-------------------------------|-------|--------------------------|-------|----------------|-------|----------------|-------|----------------|-------|----------|-------|------------------------------------|-------|---------------------|-------|---------|-------|-----------------------------------|-------|--------------|-------|----------------|-------|--------|-------|----------|-------|---------------|-------|---------------|-------|---------|-------|--------------|-------|----------------|-------|--------------|-------|------------------------|-------|--------|-------|----------|-------|---------------------|-------|----------------|-------|--------|-------|---------------|-------|--------------|-------|----------------|-------|-----------------------------------------|-------|--------------------------------------|-------|--------|-------|---------------------------|-------|--------------------------|-------|---------------|-------|----------------|-------|----------------------|-------|----------------------------|-------|--------------------------|-------|--------|-------|------------------------|-------|-----------------------------------|-------|-----------|-------|-----------------------|-------|--------------|-------|-----------|-------|--------|-------|-----------------|-------|---------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|----------|-------|--------------|-------|----------------|-------|--------------|-------|-----------|-------|-----------|-------|--------|-------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|------------------------------|-------|--------------------|-------|--------|-------|----------|-------|---------------------|-------|--------|-------|----------------|-------|--------------|-------|-------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|--------|-------|--------|-------|--------|-------|----------------------|-------|----------|-------|----------|-------|----------------------|-------|--------|-------|--------------------|-------|----------------|-------|--------|-------|--------|-------|----------------|-------|--------------|-------|--------------|-------|----------------|-------|--------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-----------------|-------|--------|-------|--------|-------|----------------------------------|-------|--------|-------|----------|-------|----------------------|-------|--------|-------|---------|-------|--------|-------|--------|-------|--------|-------|----------|-------|--------|-------|----------|-------|--------------------|-------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|--------|-------|---------|-------|----------|-------|----------|-------|----------|-------|-------------------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------------------------|-------|--------|-------|--------|-------|-------------------------|-------|---------|-------|--------|-------|----------------------|-------|--------|-------|-----------|-------|--------|-------|-----------|-------|--------|-------|----------|-------|----------|-------|---------------------------------------|-------|--------------------------------|-------|----------------------|-------|--------------------------|-------|----------|-------|-----------------|-------|--------------|-------|--------------|-------|--------------|-------|---------------------------|-------|----------------|-------|-----------------------------|-------|----------------|-------|----------|-------|--------------------------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------------|-------|--------------|-------|--------------|-------|--------|-------|----------------------------|-------|--------------------|-------|--------|-------|----------------------------|-------|---------------------------|-------|---------|-------|-----------|-------|-------------------------|-------|-------------------------|-------|-------------------------|-------|--------------|-------|------------------------------|-------|------------------------------|-------|----------------|-------|--------|-------|----------------------|-------|--------|-------|--------------------|-------|----------------|-------|--------|-------|--------|-------|----------------|-------|--------------|-------|--------------|-------|----------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|----------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------------------------|-------|--------------|-------|----------------|-------|--------------|-------|--------------|-------|------------------------------------|-------|----------------|-------|--------------|-------|-----------------------------|-------|--------------|-------|--------------|-------|--------|-------|-----------------|-------|------------------------|-------|------------------------|-------|---------------|-------|---------------|-------|-----------------|-------|------------------------------------|-------|-----------------|-------|-----------------------------|-------|-------------------------|-------|---------|-------|-------------------------------|-------|---------------|-------|----------|-------|----------------|-------|---------------|-------|--------------|-------|---------------------------------|-------|--------|-------|--------------|-------|----------------------------------|-------|---------------|-------|----------------|-------|--------|-------|----------------------------|-------|-------------------------|-------|--------|-------|--------------------|-------|--------|-------|--------|-------|--------|-------|---------------|-------|---------------|-------|--------------|-------|----------|-------|---------------------|-------|---------|-------|----------|-------|-----------------------------|-------|--------------|-------|--------|-------|----------|-------|--------------|-------|--------------|-------|---------------|-------|--------|-------|----------|-------|---------|-------|-----------------------|-------|---------|-------|---------------|-------|--------|-------|--------|-------|---------------|-------|--------|-------|--------|-------|---------|-------|-----------|-------|-----------|-------|---------|-------|--------|-------|-----------|-------|-----------|-------|--------|-------|----------|-------|-----------------|-------|---------|-------|--------|-------|--------------------------|-------|------------------------|-------|----------|-------|---------|-------|---------------|-------|----------|-------|---------|-------|--------|-------|----------|-------|--------|-------|----------|-------|--------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|----------|-------|---------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------------------------|-------|---------|-------|----------|-------|--------|-------|---------|-------|-----------|-------|-----------------------|-------|---------|-------|------------------------|-------|----------------------------|-------|--------|-------|----------|-------|--------------------|-------|--------|-------|--------|-------|----------------------|-------|--------|-------|---------|-------|----------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------|-------|----------|-------|--------------------|-------|----------|-------|----------|-------|--------|-------|----------|-------|--------|-------|-----------|-------|----------------------|-------|---------|-------|--------|-------|--------|-------|------------------------|-------|---------------------|-------|--------|-------|---------|-------|-----------|-------|------------------------|-------|-----------|-------|---------|-------|----------|-------|-----------|-------|-----------|-------|------------------------|-------|---------------------------------|-------|---------|-------|----------|-------|--------|-------|-----------|-------|--------|-------|---------|-------|-----------|-------|---------|-------|----------------------|-------|-----------|-------|----------|-------|----------|-------|--------|-------|--------------------|-------|-----------|-------|-----------|-------|---------|-------|--------|-------|---------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|----------|-------|---------|-------|-------------|-------|---------|-------|---------|-------|-----------|-------|----------------------|-------|----------|-------|--------|-------|--------|-------|-------------------|-------|---------------------|-------|----------------------------|-------|----------------|-------|--------------------------|-------|-------------------|-------|-----------------------|-------|------------------------------|-------|-----------------|-------|-----------|-------|---------|-------|-----------------------|-------|-------------------------|-------|-----------------------------|-------|-----------|-------|----------|-------|--------|-------|--------|-------|--------|-------|--------|-------|----------|-------|----------|-------|----------|-------|--------|-------|----------|-------|----------|-------|---------------------|-------|--------|
| 56429 | 9" CEDAR ELM   | 56430 | 7.5" CEDAR ELM | 56431 | 24" CEDAR ELM (M) 10", 10", 9", 9" | 56432 | 14" CEDAR ELM (M) 6", 6", 5", 5" | 56433 | 6" CEDAR ELM   | 56434 | 13.5" CEDAR ELM (M) 10.5", 6" | 56435 | 12" CEDAR ELM (M) 8", 8" | 56436 | 7" CEDAR ELM   | 56437 | 6" CEDAR ELM   | 56438 | 6" CEDAR ELM   | 56439 | 6.5" OAK | 56440 | 10" CEDAR ELM (M) 10", 10", 9", 9" | 56441 | 14" OAK (M) 10", 8" | 56442 | 13" OAK | 56443 | 19.5" CEDAR ELM (M) 10.5", 9", 9" | 56444 | 6" CEDAR ELM | 56445 | 7.5" CEDAR ELM | 56446 | 8" OAK | 56447 | 6.5" OAK | 56448 | 14" CEDAR ELM | 56449 | 11" CEDAR ELM | 56450 | 27" OAK | 56451 | 9" CEDAR ELM | 56452 | 8.5" CEDAR ELM | 56453 | 6" CEDAR ELM | 56454 | 10.5" OAK (M) 7.5", 6" | 56455 | 8" OAK | 56456 | 9.5" OAK | 56457 | 8.5" OAK (M) 6", 5" | 56458 | 6.5" CEDAR ELM | 56459 | 8" OAK | 56460 | 12" CEDAR ELM | 56461 | 8" CEDAR ELM | 56462 | 6.5" CEDAR ELM | 56463 | 23.5" CEDAR ELM (M) 10", 8", 8", 7", 4" | 56464 | 16.5" CEDAR ELM (M) 9.5", 7", 7", 7" | 56465 | 8" OAK | 56466 | 13" CEDAR ELM (M) 10", 6" | 56467 | 12" CEDAR ELM (M) 8", 8" | 56468 | 10" CEDAR ELM | 56469 | 6.5" CEDAR ELM | 56470 | 10.5" OAK (M) 7", 7" | 56471 | 11.5" CEDAR ELM (M) 8", 7" | 56472 | 10" CEDAR ELM (M) 8", 4" | 56473 | 9" OAK | 56474 | 23.5" OAK (M) 16", 15" | 56475 | 16" CEDAR ELM (M) 12", 4", 4", 4" | 56476 | 10.5" OAK | 56477 | 9.5" OAK (M) 7.5", 4" | 56478 | 9" CEDAR ELM | 56479 | 10.5" OAK | 56480 | 6" OAK | 56481 | 12.5" CEDAR ELM | 56482 | 23" OAK | 56483 | 7" CEDAR ELM | 56484 | 7" CEDAR ELM | 56485 | 6" CEDAR ELM | 56486 | 9" CEDAR ELM | 56487 | 9" CEDAR ELM | 56488 | 7.5" OAK | 56489 | 7" CEDAR ELM | 56490 | 7.5" CEDAR ELM | 56491 | 8" CEDAR ELM | 56492 | 15.5" OAK | 56493 | 13.5" OAK | 56494 | 8" OAK | 56495 | 8.5" OAK | 56496 | 6" OAK | 56497 | 8" OAK | 56498 | 7" OAK | 56499 | 6" OAK | 56500 | 16.5" OAK (M) 7", 7", 6", 6" | 56501 | 11" OAK (M) 8", 6" | 56502 | 7" OAK | 56503 | 6.5" OAK | 56504 | 8.5" OAK (M) 6", 5" | 56505 | 6" OAK | 56506 | 7.5" CEDAR ELM | 56507 | 6" CEDAR ELM | 56508 | 9" OAK (M) 6", 6" | 56509 | 7" OAK | 56510 | 7" OAK | 56511 | 8" OAK | 56512 | 7" OAK | 56513 | 7.5" OAK | 56514 | 6" OAK | 56515 | 6" OAK | 56516 | 7" OAK | 56517 | 12" OAK (M) 8.5", 7" | 56518 | 6.5" OAK | 56519 | 6.5" OAK | 56520 | 10.5" OAK (M) 7", 7" | 56521 | 6" OAK | 56522 | 10" OAK (M) 7", 6" | 56523 | 7.5" CEDAR ELM | 56524 | 6" OAK | 56525 | 6" OAK | 56526 | 6.5" CEDAR ELM | 56527 | 6" CEDAR ELM | 56528 | 7" CEDAR ELM | 56529 | 6.5" CEDAR ELM | 56530 | 7" CEDAR ELM | 56531 | 6" OAK | 56532 | 6" OAK | 56533 | 7" OAK | 56534 | 7" OAK | 56535 | 7" OAK | 56536 | 11.5" CEDAR ELM | 56537 | 7" OAK | 56538 | 6" OAK | 56539 | 38" OAK (M) 16.5", 15", 14", 14" | 56540 | 7" OAK | 56541 | 7.5" OAK | 56542 | 11" OAK (M) 7.5", 7" | 56543 | 9" OAK | 56544 | 11" OAK | 56545 | 7" OAK | 56546 | 9" OAK | 56547 | 9" OAK | 56548 | 7.5" OAK | 56549 | 7" OAK | 56550 | 6.5" OAK | 56551 | 12" OAK (M) 9", 6" | 56552 | 8.5" OAK | 56553 | 8" OAK | 56554 | 7" OAK | 56555 | 6" OAK | 56556 | 9" OAK | 56557 | 8.5" OAK | 56558 | 8" OAK | 56559 | 10" OAK | 56560 | 7.5" OAK | 56561 | 9.5" OAK | 56562 | 9.5" OAK | 56563 | 19" OAK (M) 10", 9", 9" | 56564 | 8.5" OAK | 56565 | 6.5" OAK | 56566 | 8.5" OAK | 56567 | 6.5" OAK | 56568 | 18.5" OAK (M) 10", 10", 7" | 56569 | 9" OAK | 56570 | 9" OAK | 56571 | 14.5" OAK (M) 10.5", 8" | 56572 | 11" OAK | 56573 | 9" OAK | 56574 | 16" OAK (M) 11", 10" | 56575 | 8" OAK | 56576 | 10.5" OAK | 56577 | 6" OAK | 56578 | 11.5" OAK | 56579 | 9" OAK | 56580 | 8.5" OAK | 56581 | 7.5" OAK | 56582 | 29.5" MESQUITE (M) 15.5", 10", 9", 9" | 56583 | 24" OAK (M) 10.5", 10", 9", 8" | 56584 | 11" OAK (M) 7.5", 7" | 56585 | 14.5" OAK (M) 8", 7", 6" | 56586 | 7.5" OAK | 56587 | 16.5" CEDAR ELM | 56588 | 9" CEDAR ELM | 56589 | 6" CEDAR ELM | 56590 | 6" CEDAR ELM | 56591 | 9" CEDAR ELM (M) 6.5", 5" | 56592 | 6.5" CEDAR ELM | 56593 | 7.5" CEDAR ELM (M) 5.5", 4" | 56594 | 7.5" CEDAR ELM | 56595 | 9.5" OAK | 56596 | 27" OAK (M) 13.5", 10", 9", 8" | 56597 | 7.5" OAK | 56598 | 6.5" OAK | 56599 | 7.5" OAK | 56600 | 6.5" OAK | 56601 | 7.5" CEDAR ELM | 56602 | 6" CEDAR ELM | 56603 | 6" CEDAR ELM | 56604 | 6" OAK | 56605 | 10" CEDAR ELM (M) 7.5", 5" | 56606 | 12" OAK (M) 9", 6" | 56607 | 6" OAK | 56608 | 12.5" OAK (M) 6.5", 6", 6" | 56609 | 8.5" OAK (M) 5.5", 3", 3" | 56610 | 19" OAK | 56611 | 31.5" OAK | 56612 | 7.5" OAK (M) 4", 4", 3" | 56613 | 7.5" OAK (M) 4", 4", 3" | 56614 | 7" CEDAR ELM (M) 5", 4" | 56615 | 7" CEDAR ELM | 56616 | 10.5" CEDAR ELM (M) 8.5", 4" | 56617 | 12" CEDAR ELM (M) 7", 6", 4" | 56618 | 6.5" CEDAR ELM | 56619 | 6" OAK | 56620 | 10.5" OAK (M) 7", 7" | 56621 | 6" OAK | 56622 | 10" OAK (M) 7", 6" | 56623 | 7.5" CEDAR ELM | 56624 | 6" OAK | 56625 | 6" OAK | 56626 | 6.5" CEDAR ELM | 56627 | 6" CEDAR ELM | 56628 | 7" CEDAR ELM | 56629 | 6.5" CEDAR ELM | 56630 | 7" CEDAR ELM | 56631 | 6" CEDAR ELM | 56632 | 7" CEDAR ELM | 56633 | 7" CEDAR ELM | 56634 | 7.5" CEDAR ELM | 56635 | 8" CEDAR ELM | 56636 | 7" CEDAR ELM | 56637 | 8" CEDAR ELM | 56638 | 12.5" CEDAR ELM (M) 8", 5", 4" | 56639 | 6" CEDAR ELM | 56640 | 6.5" CEDAR ELM | 56641 | 6" CEDAR ELM | 56642 | 6" CEDAR ELM | 56643 | 17.5" CEDAR ELM (M) 9", 8", 5", 4" | 56644 | 6.5" CEDAR ELM | 56645 | 8" CEDAR ELM | 56646 | 9.5" CEDAR ELM (M) 7.5", 4" | 56647 | 6" CEDAR ELM | 56648 | 8" CEDAR ELM | 56649 | 7" OAK | 56650 | 16.5" HACKBERRY | 56651 | 28" OAK (APPEARS DEAD) | 56652 | 30" OAK (APPEARS DEAD) | 56653 | 15" CEDAR ELM | 56654 | 10" CEDAR ELM | 56655 | 11.5" CEDAR ELM | 56656 | 23" CEDAR ELM (M) 11", 10", 9", 5" | 56657 | 11.5" CEDAR ELM | 56658 | 9.5" CEDAR ELM (M) 7.5", 4" | 56659 | 7" CEDAR ELM (M) 5", 4" | 56660 | 10" OAK | 56661 | 16" CEDAR ELM (M) 10", 6", 6" | 56662 | 10" CEDAR ELM | 56663 | 7.5" OAK | 56664 | 9.5" CEDAR ELM | 56665 | 11" CEDAR ELM | 56666 | 7" CEDAR ELM | 56667 | 17" CEDAR ELM (M) 10.5", 9", 4" | 56668 | 9" OAK | 56669 | 7" CEDAR ELM | 56670 | 20" CEDAR ELM (M) 10.5", 10", 9" | 56671 | 10" CEDAR ELM | 56672 | 6.5" CEDAR ELM | 56673 | 8" OAK | 56674 | 10.5" CEDAR ELM (M) 7", 7" | 56675 | 16.5" OAK (M) 13.5", 6" | 56676 | 6" OAK | 56677 | 10" OAK (M) 7", 6" | 56678 | 9" OAK | 56679 | 7" OAK | 56680 | 8" OAK | 56681 | 11" CEDAR ELM | 56682 | 14" CEDAR ELM | 56683 | 9" CEDAR ELM | 56684 | 9.5" OAK | 56685 | 7.5" OAK (M) 5", 5" | 56686 | 14" OAK | 56687 | 9.5" OAK | 56688 | 13.5" CEDAR ELM (M) 10", 7" | 56689 | 8" CEDAR ELM | 56690 | 7" OAK | 56691 | 6.5" OAK | 56692 | 8" CEDAR ELM | 56693 | 8" CEDAR ELM | 56694 | 12" CEDAR ELM | 56695 | 6" OAK | 56696 | 7.5" OAK | 56697 | 10" OAK | 56698 | 16" OAK (M) 11.5", 9" | 56699 | 13" OAK | 56700 | 16" CEDAR ELM | 56701 | 9" OAK | 56702 | 7" OAK | 56703 | 16" CEDAR ELM | 56704 | 7" OAK | 56705 | 8" OAK | 56706 | 11" ELM | 56707 | 10.5" OAK | 56708 | 10.5" OAK | 56709 | 11" OAK | 56710 | 9" OAK | 56711 | 12.5" OAK | 56712 | 10.5" OAK | 56713 | 6" OAK | 56714 | 8.5" OAK | 56715 | 11.5" CEDAR ELM | 56716 | 11" OAK | 56717 | 9" OAK | 56718 | 17.5" OAK (M) 12.5", 10" | 56719 | 21.5" OAK (M) 16", 11" | 56720 | 7.5" OAK | 56721 | 11" OAK | 56722 | 10" CEDAR ELM | 56723 | 7.5" OAK | 56724 | 12" OAK | 56725 | 9" OAK | 56726 | 6.5" OAK | 56727 | 9" OAK | 56728 | 6.5" OAK | 56729 | 22" OAK (M) 13", 11", 7" | 56730 | 10" OAK | 56731 | 10" OAK | 56732 | 10" OAK | 56733 | 13" OAK | 56734 | 16" OAK | 56735 | 13" OAK | 56736 | 7.5" OAK | 56737 | 11" OAK | 56738 | 6" OAK | 56739 | 8" OAK | 56740 | 6" OAK | 56741 | 6" OAK | 56742 | 7" OAK | 56743 | 16.5" OAK (M) 13.5", 6" | 56744 | 13" OAK | 56745 | 9.5" OAK | 56746 | 7" OAK | 56747 | 32" OAK | 56748 | 35.5" OAK | 56749 | 16" OAK (M) 11.5", 9" | 56750 | 13" OAK | 56751 | 12.5" OAK (M) 8.5", 8" | 56752 | 34.5" OAK (M) 24", 14", 7" | 56753 | 7" OAK | 56754 | 7.5" OAK | 56755 | 10" OAK (M) 7", 6" | 56756 | 6" OAK | 56757 | 7" OAK | 56758 | 12" OAK (M) 8.5", 7" | 56759 | 8" OAK | 56760 | 11" OAK | 56761 | 10.5" OAK (M) 9", 7" | 56762 | 10" OAK | 56763 | 11" OAK | 56764 | 21" OAK | 56765 | 19" OAK | 56766 | 9" OAK | 56767 | 8.5" OAK | 56768 | 13" OAK (M) 9", 8" | 56769 | 8.5" OAK | 56770 | 7.5" OAK | 56771 | 6" OAK | 56772 | 8.5" OAK | 56773 | 6" OAK | 56774 | 21.5" OAK | 56775 | 21" OAK (M) 15", 12" | 56776 | 10" OAK | 56777 | 9" OAK | 56778 | 9" OAK | 56779 | 21.5" OAK (M) 16", 11" | 56780 | 8.5" OAK (M) 6", 5" | 56781 | 8" OAK | 56782 | 10" OAK | 56783 | 14.5" OAK | 56784 | 19.5" OAK (M) 13", 13" | 56785 | 27.5" OAK | 56786 | 12" OAK | 56787 | 8.5" OAK | 56788 | 10.5" OAK | 56789 | 10.5" OAK | 56790 | 18.5" OAK (M) 13", 11" | 56791 | 29" OAK (M) 12.5", 12", 12", 9" | 56792 | 11" OAK | 56793 | 8.5" OAK | 56794 | 7" OAK | 56795 | 11.5" OAK | 56796 | 8" OAK | 56797 | 12" OAK | 56798 | 10.5" OAK | 56799 | 12" OAK | 56800 | 18" OAK (M) 13", 10" | 56801 | 13.5" OAK | 56802 | 9.5" OAK | 56803 | 7.5" OAK | 56804 | 8" OAK | 56805 | 10" OAK (M) 7", 6" | 56806 | 14.5" OAK | 56807 | 15.5" OAK | 56808 | 22" OAK | 56809 | 8" OAK | 56810 | 12" OAK | 56811 | 12.5" OAK | 56812 | 14.5" OAK | 56813 | 14.5" OAK | 56814 | 14.5" OAK | 56815 | 11.5" OAK | 56816 | 12.5" OAK | 56817 | 10.5" OAK | 56818 | 8.5" OAK | 56819 | 14" OAK | 56820 | 10.5" PECAN | 56821 | 17" OAK | 56822 | 14" OAK | 56823 | 12.5" OAK | 57127 | 10.5" OAK (M) 7", 7" | 57128 | 6.5" OAK | 57129 | 6" OAK | 57130 | 6" OAK | 57131 | 7" OAK (M) 5", 4" | 57132 | 8.5" OAK (M) 6", 5" | 57133 | 12" OAK (M) 6", 5", 4", 3" | 57134 | 9.5" CEDAR ELM | 57135 | 10.5" OAK (M) 6", 5", 4" | 57136 | 7" OAK (M) 5", 4" | 57137 | 9" OAK (M) 6", 3", 3" | 57138 | 11.5" OAK (M) 5", 5", 4", 4" | 57139 | 12.5" CEDAR ELM | 57140 | 12.5" OAK | 57141 | 10" OAK | 57142 | 15" OAK (M) 11.5", 7" | 57143 | 14.5" OAK (M) 10.5", 8" | 57144 | 14.5" CEDAR ELM (M) 10", 9" | 57145 | 10.5" OAK | 57146 | 6.5" OAK | 57147 | 9" OAK | 57148 | 9" OAK | 57149 | 9" OAK | 57150 | 9" OAK | 57151 | 6.5" OAK | 57152 | 6.5" OAK | 57153 | 7.5" OAK | 57154 | 9" OAK | 57155 | 7.5" OAK | 57156 | 6.5" OAK | 57157 | 7.5" OAK (M) 5", 5" | 60366 | 8" OAK |

| POINT | SIZE & SPECIES              |
|-------|-----------------------------|
| 56247 | 6" OAK                      |
| 56248 | 8" OAK                      |
| 56249 | 7" OAK                      |
| 56250 | 6" OAK                      |
| 56251 | 9" OAK                      |
| 56252 | 19" OAK (M) 10", 7", 6", 5" |
| 56253 | 6" CEDAR ELM                |
| 56254 | 6.5" OAK                    |
| 56255 | 7.5" CEDAR ELM              |
| 56256 | 6" OAK                      |
| 56257 | 6" OAK                      |
| 56258 | 7" OAK                      |
| 56259 | 6" CEDAR ELM                |
| 56260 | 9.5" CEDAR ELM              |
| 56261 | 6" OAK                      |
| 56262 | 8" OAK                      |
| 56263 | 6.5" OAK                    |
| 56264 | 6" OAK                      |
| 56265 | 7.5" OAK                    |
| 56266 | 8" OAK                      |
| 56267 | 6.5" OAK                    |
| 56268 | 7.5" CEDAR ELM              |
| 56269 | 8" OAK                      |
| 56270 | 6" OAK                      |
| 56271 | 6" OAK                      |
| 56272 | 6" CEDAR ELM                |
| 56273 | 38" OAK (APPEARS DEAD)      |
| 56274 | 8.5" OAK                    |
| 56275 | 7.5" CEDAR ELM (M) 5", 5"   |
| 56276 | 11.5" CEDAR ELM             |
| 56277 | 7.5" OAK                    |
| 56278 | 6.5" OAK (M) 5", 3"         |
| 56279 | 6.5" OAK                    |
| 56280 | 6.5" OAK                    |
| 56281 | 6.5" OAK                    |
| 56282 | 6.                          |



| LEGEND                |     |
|-----------------------|-----|
| INLET PROTECTION      | IP  |
| LIMITS OF DISTURBANCE | LD  |
| SILT FENCE            | SF  |
| CONSTRUCTION EXIT     | CE  |
| ROCK CHECK DAM        | CCD |
| EXISTING FLOW ARROW   | EA  |
| PROPOSED FLOW ARROW   | PA  |
| TREE TO BE REMOVED    | TR  |

**EROSION CONTROL MAINTENANCE NOTES**

- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE WHICH COMPLIES WITH THE GENERAL PERMIT REQUIREMENTS AND CLEANED AND REPAIRED WITHIN 48 HOURS OF THE INSPECTION IN ACCORDANCE WITH THE FOLLOWING:
  - INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
  - ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RESEED AS NEEDED.
  - SILT BARRIER SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT BARRIER WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT BARRIER.
  - THE TEMPORARY PARKING AND STORAGE AREA (IF PRESENT) SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
  - OUTLET STRUCTURES IN THE SEDIMENTATION BASINS OR SEDIMENT TRAPS (IF PRESENT) SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
  - MAINTENANCE PROCEDURES FOR THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SPECIFIED ARE GIVEN IN SECTION 5 OF THE STORM WATER POLLUTION PREVENTION PLAN.

**NOTES FOR CHANGES TO SWPPP**

THE TXR15000 GENERAL PERMIT REQUIRES THAT THE PERMITTEE REVISE OR UPDATE THIS SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, OR WHENEVER THE RESULT OF AN INSPECTION INDICATES THAT THIS SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES. HOWEVER, THE REGULATIONS OF THE TEXAS BOARD OF PROFESSIONAL ENGINEERS REQUIRE THAT CHANGES MADE BY THE CONTRACTOR DURING CONSTRUCTION MUST BE AUTHORIZED BY A LICENSED TEXAS ENGINEER. THESE CHANGES MAY BE AUTHORIZED BY THE ENGINEER OF RECORD THROUGH UPDATED DRAWINGS, WORK ORDER CHANGES, OR OTHER METHODS ACCEPTABLE TO THE ENGINEER, OR BY ANOTHER ENGINEER PROVIDED THAT THEY NOTIFY THE ENGINEER OF RECORD.

**EROSION CONTROL SEQUENCE**

- INSTALL SILT BARRIERS AROUND PERIMETER OF PROPERTY AND DISTURBED AREAS AS SHOWN.
- INSTALL INLET PROTECTION FOR ALL EXISTING GRADE INLETS, CURB INLETS.
- INSTALL ROCK CHECK DAMS AT THE ENDS OF ALL EXPOSED STORM SEWER PIPES, IF PRESENT.
- CONSTRUCT TEMPORARY CONSTRUCTION ACCESS.
- COMMENCE GRUBBING AND REMOVAL OF VEGETATION IN AREA TO RECEIVE CUT OR FILL.
- INSTALL ALL UNDERGROUND UTILITIES.
- FINALIZE PAVEMENT SUBGRADE PREPARATION.
- INSTALL ALL PROPOSED STORM SEWER PIPES AND INSTALL INLET PROTECTION AND SILT BARRIERS AT ENDS OF EXPOSED PIPES.
- CONSTRUCT ALL GRATE INLETS AND DRAINAGE STRUCTURES. INLET PROTECTION AND SILT BARRIERS MAY BE REMOVED TEMPORARILY FOR THIS CONSTRUCTION.
- REMOVE SILT BARRIERS AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.
- INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT, CURB & GUTTER.
- INSTALL ALL PAVING, CURB & GUTTER.
- COMPLETE PLANTING AND/OR SEEDING OF VEGETATED AREAS TO ACCOMPLISH STABILIZATION, IN ACCORDANCE WITH THE TXR15000 NOTES.
- REMOVE TEMPORARY CONSTRUCTION ACCESS, SILT BARRIERS & ROCK CHECK DAMS.

**EROSION CONTROL NOTES**

- CONTRACTOR MUST COMPLETE A CONSTRUCTION SITE NOTICE, OBTAIN SIGNED COPIES OF NOI FORM FOR BOTH OWNER AND CONTRACTOR (IF APPLICABLE TO THIS SITE), AND POST THEM AT THE CONSTRUCTION SITE, IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES (TXR150000). THE GENERAL CONTRACTOR, (AND ALL SUBCONTRACTORS INVOLVED WITH ANY CONSTRUCTION ACTIVITY RELATED TO EARTHWORK, EROSION CONTROL, ETC., OR WHICH UTILIZE POSSIBLE POLLUTANTS AS DEFINED IN THE NPDES GENERAL PERMIT) MUST BE FAMILIAR WITH THE CONTENTS OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS WELL AS ALL THE REQUIREMENTS SET FORTH IN THE NPDES GENERAL PERMIT AND ANY APPLICABLE LOCAL PERMIT REQUIREMENTS, AND SHALL COMPLY WITH ALL SUCH REQUIREMENTS DURING ALL CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL ADHERE TO THE SEQUENCE OF OPERATIONS FOR EROSION CONTROL IMPLEMENTATION SHOWN HEREON. ANY DEVIATION FROM THIS SEQUENCE DEEMED NECESSARY BY THE CONTRACTOR MAY REQUIRE THAT THE STORMWATER POLLUTION PREVENTION PLAN BE MODIFIED IN ACCORDANCE WITH THE NPDES GENERAL PERMIT GUIDELINES.
- THE CONTRACTOR SHALL MODIFY THIS PLAN TO SHOW LOCATIONS OF TEMPORARY WASHDOWN AREAS, PORTABLE TOILETS, EQUIPMENT MAINTENANCE/REPAIR AREAS, STOCKPILE AREAS, FUEL STORAGE AREAS, CONCRETE WASH-OUT PITS, AND POLLUTANT CONTROLS FOR EACH, AS SOON AS POSSIBLE. THE GENERAL PERMIT AUTHORIZES THE LAND DISPOSAL OF WASH OUT WATER FROM CONCRETE TRUCKS THAT ARE ASSOCIATED WITH OFF-SITE PRODUCTION FACILITIES, AS LONG AS THE DISCHARGE IS INTO SPECIFICALLY DESIGNATED DIKED AREAS WHICH HAVE BEEN PREPARED TO PREVENT CONTACT BETWEEN THE CONCRETE AND/OR WASH OUT WATER AND STORMWATER WHICH WILL BE DISCHARGED FROM THE SITE, TO PREVENT DIRECT DISCHARGE TO SURFACE WATERS (SEE CONCRETE WASHOUT DETAIL SHOWN IN PLANS). DIRECT DISCHARGE OF CONCRETE TRUCK WASH OUT WATER TO SURFACE WATERS IN THE STATE, INCLUDING DISCHARGE TO STORM SEWERS, IS PROHIBITED BY THE GENERAL PERMIT. IF A CONCRETE PLANT IS LOCATED AT CONSTRUCTION SITE, CONTRACTOR SHALL OBTAIN COVERAGE UNDER AND COMPLY WITH GENERAL PERMIT TXG10000 OR INDIVIDUAL PERMIT.
- THE GENERAL CONTRACTOR SHALL PERFORM ALL REQUIRED INSPECTIONS OF STORMWATER CONTROLS AND PRACTICES AT FREQUENCIES GIVEN IN THE NPDES GENERAL PERMIT, AND SHALL COMPLETE AND SIGN APPROPRIATE INSPECTION FORMS.
- OIL AND GREASE ABSORBING MATERIALS SHALL BE READILY AVAILABLE ON-SITE AND SHALL BE PROMPTLY USED TO CONTAIN AND/OR CLEAN UP ALL FUEL OR CHEMICAL SPILLS OR LEAKS.
- DUST CONTROL SHALL BE ACCOMPLISHED BY WATERING DRY, EXPOSED AREAS ON A REGULAR BASIS. SPRAYING OF PETROLEUM BASED OR TOXIC LIQUIDS FOR THIS PURPOSE IS PROHIBITED.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY STABILIZED WITH VEGETATION AND MULCH.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED WITHIN FOURTEEN DAYS PER SEEDING OR LANDSCAPING SPECIFICATIONS.
- ALL VEHICLES SHALL BE CLEANED AT THE CONSTRUCTION EXIT POINTS ACCORDING TO NOTES SHOWN ON THE DETAIL THEREOF. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM EXITING TRAFFIC, HOSE BIBS SHALL BE PROVIDED AT CONSTRUCTION TRAFFIC EXIT POINTS, AND VEHICLE TIRES SHALL BE WASHED BEFORE EXITING ONTO PUBLIC ROADS. SILT FROM THIS WASHING OPERATION SHALL BE INTERCEPTED AND TRAPPED BEFORE WASHWATER IS ALLOWED TO BE DISCHARGED OFF-SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED ONTO ADJACENT ROADWAYS BY VEHICLES EXITING THE SITE SHALL BE CLEANED OR REMOVED IMMEDIATELY.
- CONTRACTOR SHALL PREVENT ANY SILTATION FROM ENTERING THE STORM SEWER SYSTEM. ALL INLETS AND INLET OPENINGS SHALL BE FULLY ENCLOSED WITH APPROPRIATE INLET PROTECTION DEVICES.
- THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT IN ANY TEMPORARY OR PERMANENT DETENTION PONDS, STORM SEWER INLETS AND PIPES, AND ALONG SILT FENCES, WITHIN 48 HOURS AFTER INSPECTION OF DEVICES REVEALS THE PRESENCE OF EXCESSIVE SILTATION.
- SILT FENCES SHALL BE PLACED AROUND ANY STOCKPILES USED ON THIS SITE.
- THE CONTRACTOR IS ADVISED TO CONSTRUCT TEMPORARY OR PERMANENT FENCING AROUND DETENTION PONDS AND SEDIMENT BASINS AT THE EARLIEST POSSIBLE TIME TO PREVENT ACCIDENTAL ACCESS BY PERSONS OR ANIMALS.
- ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO ENSURE COMPLIANCE WITH THE NPDES GENERAL PERMIT OR LOCAL PERMIT REQUIREMENTS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE WITHIN THIRTY DAYS AFTER STABILIZATION OF ALL SURFACES.
- THE CONTRACTOR SHALL ASSUME LIABILITY FOR DAMAGE TO ADJACENT PROPERTIES AND/OR PUBLIC RIGHT-OF-WAY RESULTING FROM FAILURE TO FULLY IMPLEMENT AND EXECUTE ALL EROSION CONTROL PROCEDURES SHOWN AND NOTED IN THESE PLANS.
- WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE IMPORTED OR EXPORTED ON THE PRIMARY CONSTRUCTION SITE, CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL TCEQ STORMWATER REQUIREMENTS FOR THE REMOTE SITE. CONTRACTOR SHALL FURNISH THE ENGINEER AND THE OWNER'S CONSTRUCTION MANAGER WITH DOCUMENTATION OF COVERAGE FOR THE BORROW OR FILL SITE UNDER AN NPDES PERMIT FOR STORMWATER DISCHARGES AND OF A WRITTEN AGREEMENT WITH THE LANDOWNER OF THE REMOTE SITE INDICATING EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED THEREON. AT A MINIMUM, EROSION CONTROL MEASURES MUST CONSIST OF PERIMETER CONTROLS (SILT FENCES) ON ALL DOWN SLOPES AND SIDE SLOPE BOUNDARIES OF ANY DISTURBED AREA, PLUS PROVISIONS FOR RE-VEGETATION AFTER THE FILL MATERIALS ARE IN PLACE.
- ALL SLOPES ON SITE WHICH ARE 3:1 OR STEEPER SHALL BE STABILIZED BY TRACK WALKING (TRAVERSING UP AND DOWN THE SLOPE WITH A TRACKED VEHICLE) FOLLOWED BY INSTALLATION OF EROSION CONTROL BLANKET INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN S160 OR APPROVED EQUAL.

**TURF PROJECT NOTES**

- EROSION CONTROL:**  
Throughout the project and the maintenance period for turfgrass, it is the Contractor's responsibility to maintain the topsoil in place at specified grades. Topsoil and turfgrass losses due to erosion or any disturbance from construction activity will be replaced by the Contractor until ESTABLISHMENT and ACCEPTANCE is achieved.
- SOIL PREPARATION:**  
All slopes and areas disturbed by construction, except those occupied by buildings, structures, or paving shall be graded smooth and four (4") inches of topsoil applied. If adequate topsoil is not available onsite, the Contractor shall provide topsoil as approved by the Owner. The area shall be dressed to typical sections and powed to a depth of five (5") inches. Soil shall be further prepared by the removal of debris, weeds and stones larger than 3/4 inch in diameter. After tilage and cleaning, all areas to receive turf shall be leveled, fine graded, and drag with a weighted spike harrow or flail drag. The top two (2") inches shall be pulverized to provide a uniform bed for seeding or sod as described below.
- GRASS SOD:**  
Unless otherwise noted on plan, a minimum three feet (3') of solid bermuda sod shall be installed along all impervious edges. This includes, but is not limited to, curbing, sidewalks, building foundation, storm water inlets, manholes, and planting bed perimeter treatments. Additional areas of sod installation will be as indicated on the design plans. Sod installation occur between November and March, sod shall include an over-seed of Annual Rye for a green-in appearance.
- SPRING AND SUMMER PERMANENT GRASSING (May 15 through September 15):**  
Hydrolicul seed with Tuller Common Bermuda at a rate of 4 lbs/1000 sq ft. Seeding shall be accomplished immediately after bed preparation. Hydroseed mixture shall contain suitable mulch applied at a rate of 2000 lbs/acre, with a maximum of 50 lbs/100 gallons of water. If seeding is delayed after mixing 5 - 2 hours, add 50% seed mix. If delay is longer than 2 hours, begin with new mixture.
- FALL AND WINTER TEMPORARY GRASSING (September 15 through May 15):**  
Seed with annual rye at a rate of 10 lbs/1000 sq ft. After May 15, Contractor shall remove rye to effectively establish permanent seeding.
- PROTECTION:**  
Protect newly seeded areas from excessive runoff and traffic until vegetation is established. Accumulated sediment deposited by runoff should be removed to prevent suppression of the vegetation. In addition, determine the source of excess sediment and implement appropriate BMPs to control the erosion. No heavy equipment shall be moved over the seeded turf area unless the soil is again prepared, graded, leveled and replanted. It will be the responsibility of the Contractor to protect all paving surfaces, curbs, utilities, plant materials, and any other existing improvements from damage. Any damages shall be repaired or replaced at no cost to the Owner.
- IRRIGATION:**  
In the absence of an irrigation system or areas beyond the coverage limits of a permanent irrigation system, Contractor shall water sod or seed temporarily to develop adequate growth and establishment before regular maintenance begins. Turf shall be watered until firmly established.
- MAINTENANCE REQUIREMENTS:**  
Vegetation should be inspected regularly to ensure that plant material is established properly and remains healthy. Mowing, stirring and supervision of water applications shall be the responsibility of the Contractor until the Owner or Owner's Representative accepts and resumes regular maintenance.
- ESTABLISHMENT AND ACCEPTANCE:**  
All disturbed areas receiving sod or seed shall receive topsoil as specified and be adequately established with turf such that any absence of water will not kill the turf, but promote a state of turf dormancy, until the next rainfall event.
- Regardless of unreasonable climatic conditions or other adverse conditions affecting planting operations and the growth of the turf grass, it shall be the sole responsibility of the Contractor to establish a uniform stand of grass. UNIFORM STAND OF GRASS is defined as minimum 80% coverage per square foot (no bare areas).

**MATERIAL STORAGE - NOTICE TO CONTRACTOR**

THE CONTRACTOR SHALL NOTE ON SITE PLAN THE LOCATION OF ALL MATERIAL STORAGE AREAS, EQUIPMENT STORAGE AREAS, PETROLEUM TANKS, SOLID WASTE RECEPTACLES, SANITARY FACILITIES, ANY ON-SITE OR OFF-SITE BORROW OR STOCKPILE AREA, ANY ON-SITE OR OFF-SITE SUPPORT ACTIVITIES (SUCH AS ASPHALT OR CONCRETE PLANTS). CONTRACTOR SHALL ALSO PREPARE, KEEP ON SITE, AND MAINTAIN CURRENT A LIST OF MATERIALS WITH APPROXIMATE QUANTITIES, WHICH ARE STORED ON SITE.

**SITE DATA**

TOTAL LAND AREA: 19.98 AC  
DISTURBED AREA: 7.00 AC  
IMPERVIOUS: 2.45 AC  
PERVIOUS: 4.55 AC

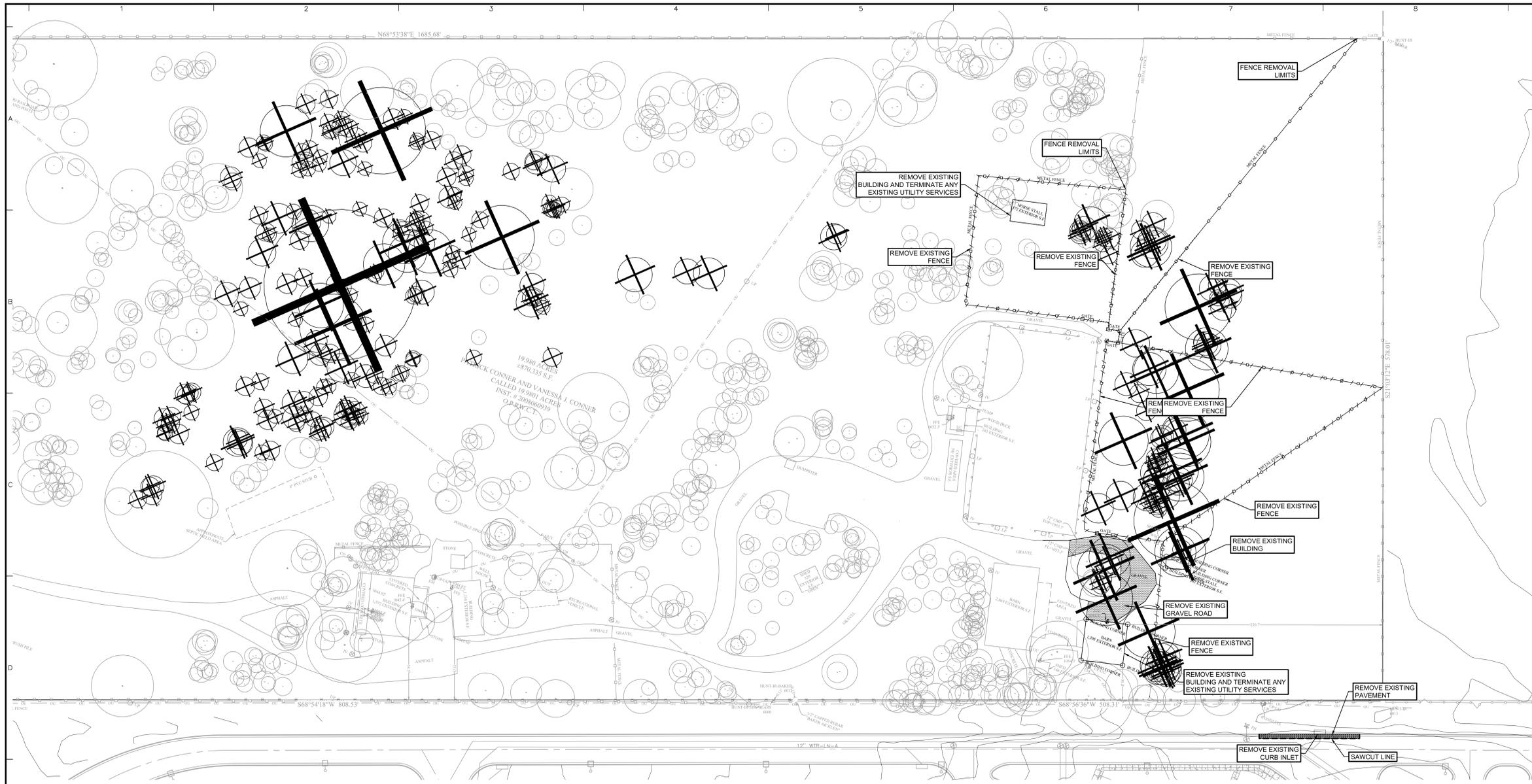


**811**  
Know what's below.  
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

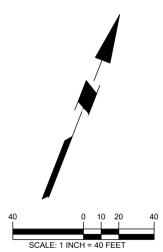
| Date                                                                                                                                                                                                     | Description | No. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|
| Revisions                                                                                                                                                                                                |             |     |
|                                                                                                                                                                                                          |             |     |
| <b>LANGAN</b><br>Langan Engineering and Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TBPE REG. # F-13799 |             |     |
| Project                                                                                                                                                                                                  |             |     |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                                |             |     |
| LIBERTY HILL TEXAS                                                                                                                                                                                       |             |     |
| Drawing Title                                                                                                                                                                                            |             |     |
| <b>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</b>                                                                                                                                                          |             |     |
| Project No.                                                                                                                                                                                              | Drawing No. |     |
| 531013327                                                                                                                                                                                                | C2.0        |     |
| Date                                                                                                                                                                                                     |             |     |
| Drawn By                                                                                                                                                                                                 | AM          |     |
| Checked By                                                                                                                                                                                               | MH          |     |
| Sheet 4 of 18                                                                                                                                                                                            |             |     |

Project No. 531013327



**LEGEND**

- SAWCUT: Dashed line
- PAVEMENT REMOVAL: Stippled pattern
- GRAVEL REMOVAL: Horizontal line pattern
- FENCE TO BE REMOVED: Line with cross-ticks
- TREES TO BE REMOVED: Circle with cross



**NOTICE TO CONTRACTORS - UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY**

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PSS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

**!!!CAUTION!!!**

EXISTING OVERHEAD & UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES BY VACUUM EXCAVATION OR OTHER POTHOLING TECHNIQUES.

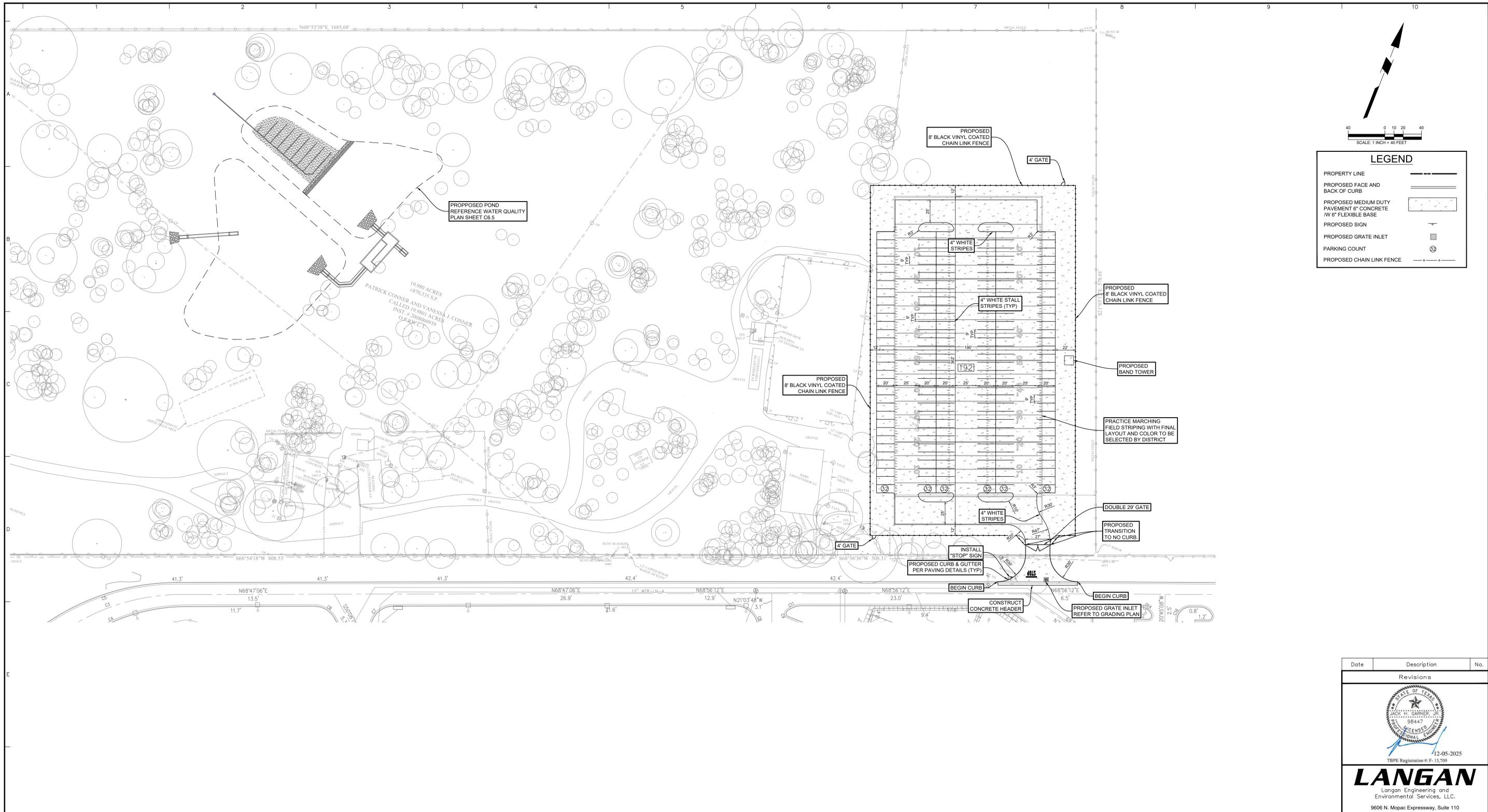


Know what's below.  
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

| Date                                                                                                                                                                                                         | Description   | No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|
| Revisions                                                                                                                                                                                                    |               |     |
|                                                                                                                                                                                                              |               |     |
| <b>LANGAN</b><br>Langan Engineering and Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TBPE FIRM REG. #F-13709 |               |     |
| Project                                                                                                                                                                                                      |               |     |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                                    |               |     |
| LIBERTY HILL TEXAS                                                                                                                                                                                           |               |     |
| Drawing Title                                                                                                                                                                                                |               |     |
| <b>DEMOLITION PLAN</b>                                                                                                                                                                                       |               |     |
| Project No.                                                                                                                                                                                                  | Drawing No.   |     |
| 531013327                                                                                                                                                                                                    | <b>C3.0</b>   |     |
| Date                                                                                                                                                                                                         | Checked By    |     |
| Drawn By                                                                                                                                                                                                     | Sheet 0 of 18 |     |

LANGAN Project No. 531013327 © 2025 Langan



**LEGEND**

|                                                               |           |
|---------------------------------------------------------------|-----------|
| PROPERTY LINE                                                 | ---       |
| PROPOSED FACE AND BACK OF CURB                                | ====      |
| PROPOSED MEDIUM DUTY PAVEMENT 8" CONCRETE 1W 0" FLEXIBLE BASE | [Pattern] |
| PROPOSED SIGN                                                 | [Symbol]  |
| PROPOSED GRATE INLET                                          | [Symbol]  |
| PARKING COUNT                                                 | [Symbol]  |
| PROPOSED CHAIN LINK FENCE                                     | ---o---   |

**SIGN LEGEND**



ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST REGULATIONS BY TEXAS DEPARTMENT OF TRANSPORTATION.

**PARKING COUNT SUMMARY**

|                                             |     |
|---------------------------------------------|-----|
| TOTAL SITE PARKING STANDARD STALLS PROVIDED | 192 |
| ADA STALLS PROVIDED                         | 0   |
| ADA STALLS REQUIRED                         | 0   |
| TOTAL STALLS                                | 192 |

**NOTICE TO CONTRACTORS - UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY**

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PSS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

**\*\*CZP CALCULATIONS\*\***

PROPOSED POND  
 CURRENT PROPOSED DRAINAGE AREA = 9.60 AC  
 CURRENT PROPOSED IMPERVIOUS COVER = 3.44 AC  
 CURRENT PROPOSED REQUIRED VOLUME = 16,950 CF  
 CURRENT PROPOSED MINIMUM FILTER BASIN AREA = 1,380 SF

\*FUTURE DRAINAGE AREA = 15.55 AC  
 \*FUTURE IMPERVIOUS COVER = 6.75 AC  
 \*FUTURE REQUIRED VOLUME = 27,334 CF  
 \*FUTURE MINIMUM FILTER BASIN AREA = 2,278 SF

POND VOLUME PROVIDED = 34,360 CF  
 FILTER BASIN AREA PROVIDED = 3,417 SQ FT

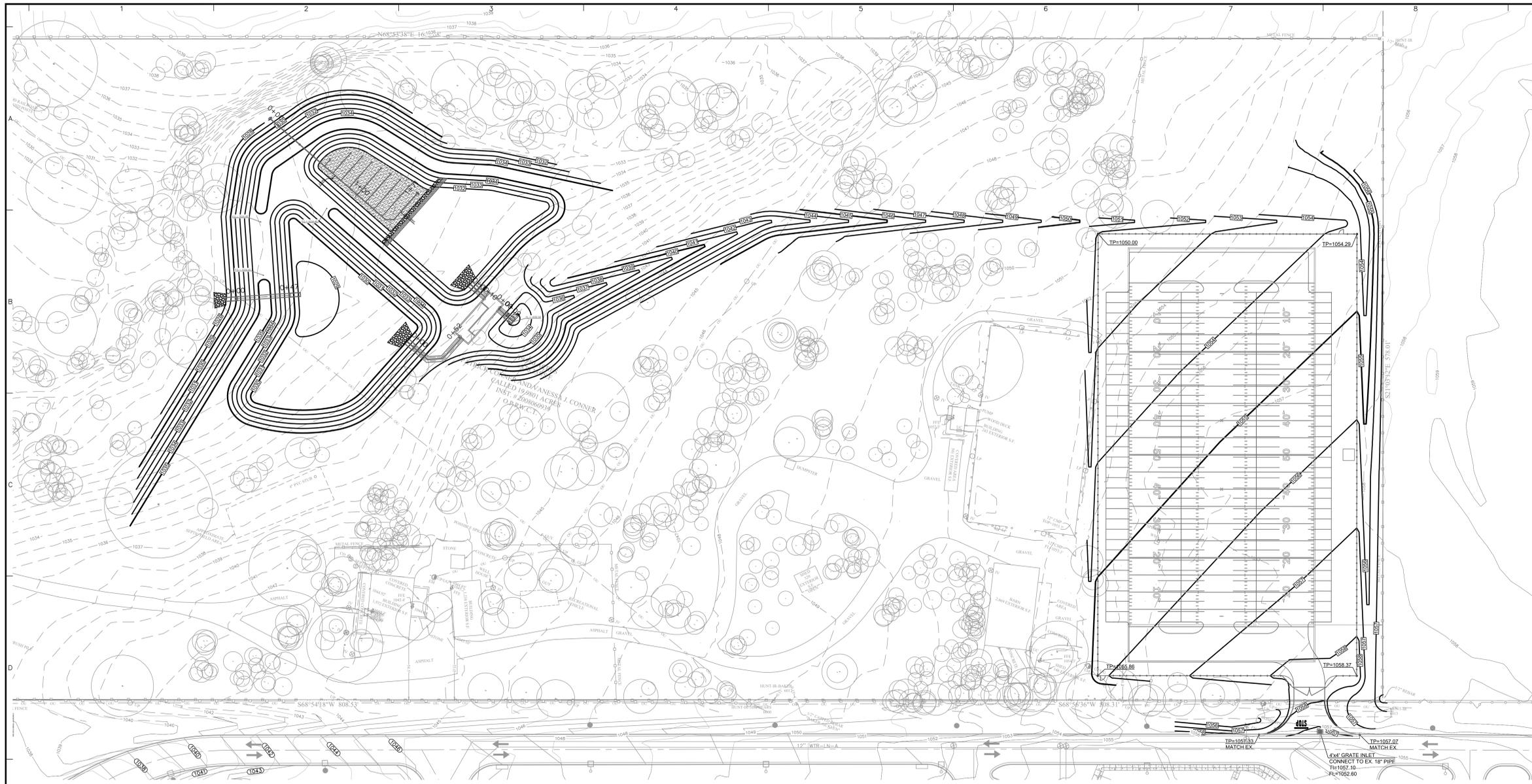
\*ALL FUTURE CONDITIONS ARE APPROXIMATE IN NATURE AND ARE NOT BASED ON ANY COMPLETED DESIGN. ANY FUTURE ADDITIONS TO THE PROPERTY WITHIN THE DRAINAGE BASIN OF THE DETENTION AND WATER QUALITY PONDS WILL BE SUBJECT TO REVIEW CRITERIA AT THE TIME OF THAT FUTURE SUBMITTAL.



**811**  
 Know what's below.  
 Call before you dig.  
 THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

| Date                                                                                                                                                                                                         | Description | No.           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|
| Revisions                                                                                                                                                                                                    |             |               |
|                                                                                                                                                                                                              |             |               |
| <b>LANGAN</b><br>Langan Engineering and Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TBPE FIRM REG. #F-13709 |             |               |
| Project                                                                                                                                                                                                      |             |               |
| <b>CONNOR TRACT BAND PARKING ADDITION</b>                                                                                                                                                                    |             |               |
| LIBERTY HILL TEXAS                                                                                                                                                                                           |             |               |
| Drawing Title                                                                                                                                                                                                |             |               |
| <b>SITE PLAN</b>                                                                                                                                                                                             |             |               |
| Project No.                                                                                                                                                                                                  | Drawing No. |               |
| 531013327                                                                                                                                                                                                    | C4.0        |               |
| Date                                                                                                                                                                                                         | 12/05/2025  |               |
| Drawn By                                                                                                                                                                                                     | AM          |               |
| Checked By                                                                                                                                                                                                   | MH          |               |
| Sheet 11 of 18                                                                                                                                                                                               |             | © 2025 Langan |

Project No. 531013327



**LEGEND**

|                     |                 |
|---------------------|-----------------|
| PROPOSED CONTOUR    | —●—             |
| EXISTING CONTOUR    | - - - - -       |
| FLOWLINE            | —●—             |
| SPOT GRADE          | FG=100.50       |
| PROPOSED FLOW ARROW | →               |
| FG                  | FINISHED GRADE  |
| TP                  | TOP OF PAVEMENT |
| TC                  | TOP OF CURB     |
| FL                  | FLOWLINE        |

**NOTICE TO CONTRACTORS - UTILITIES**

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF ANY EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, THE GOVERNING MUNICIPALITY, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY**

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

**GENERAL SITE GRADING NOTE**

- AS PART OF THE BASE BID THE CONTRACTOR SHALL PROVIDE/IMPORT ALL SELECT FILL AND TOPSOIL MATERIAL NECESSARY TO ACHIEVE FINAL GRADE PER PLAN.
- ALL AREAS WITHIN CONSTRUCTION LIMITS NOT COVERED WITH AN IMPERVIOUS MATERIAL SHALL BE COVERED WITH TOPSOIL. THE TOPSOIL SHALL BE IN CONFORMANCE WITH THE TOPSOIL NOTES LISTED IN THE PLAN SET AND SPECIFICATIONS FOR THIS PROJECT.
- BASE BID SHALL ALSO INCLUDE HAUL OFF OF EXCESS MATERIAL AS NECESSARY.
- ANY FILL PLACED ONSITE SHALL BE TESTED AND APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND BE IN CONFORMANCE WITH RECOMMENDATIONS LISTED IN THE SITE GEOTECHNICAL REPORT TITLED LIBERTY HILL ISD - HIGH SCHOOL NO. 1 EXPANSION AND DATED SEPTEMBER 5, 2024 OR ANY SUPPLEMENTAL ADDENDUMS.

**!!!CAUTION!!!**

EXISTING OVERHEAD & UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES BY VACUUM EXCAVATION OR OTHER POTHOLING TECHNIQUES.

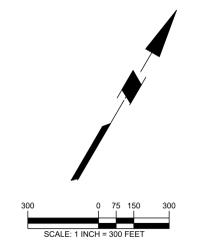
**811**

Know what's below.  
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

| Date                                                                                                                                                                                                         | Description | No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|
| Revisions                                                                                                                                                                                                    |             |     |
|                                                                                                                                                                                                              |             |     |
| <b>LANGAN</b><br>Langan Engineering and Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TBPE FIRM REG. #F-13709 |             |     |
| Project                                                                                                                                                                                                      |             |     |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                                    |             |     |
| LIBERTY HILL<br>WILLIAMSON COUNTY TEXAS                                                                                                                                                                      |             |     |
| Drawing Title                                                                                                                                                                                                |             |     |
| <b>GRADING PLAN</b>                                                                                                                                                                                          |             |     |
| Project No.                                                                                                                                                                                                  | Drawing No. |     |
| 531013327                                                                                                                                                                                                    | C5.0        |     |
| Date                                                                                                                                                                                                         | 12/05/2025  |     |
| Drawn By                                                                                                                                                                                                     | AM          |     |
| Checked By                                                                                                                                                                                                   | MH          |     |
| Sheet 11 of 18                                                                                                                                                                                               |             |     |

LANGAN Project No. 531013327



| LEGEND                |       |
|-----------------------|-------|
| BASIN NAME            | DA-00 |
| ACRES                 | 1.00  |
| DRAINAGE BASIN        |       |
| EXISTING FLOW ARROW   |       |
| TIME OF CONCENTRATION |       |



Know what's below.  
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |



**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TBPE FIRM REG. #F-13709

Project  
**CONNER TRACT BAND PARKING ADDITION**  
LIBERTY HILL  
WILLAMSON COUNTY TEXAS

Drawing Title  
**EXISTING DRAINAGE AREA MAP**

|             |                |
|-------------|----------------|
| Project No. | Drawing No.    |
| 531013327   | C6.0           |
| Date        | 12/05/2025     |
| Drawn By    | AM             |
| Checked By  | MH             |
|             | Sheet 12 of 18 |

| PRE-DEVELOPMENT DRAINAGE AREA CALCULATIONS |                    |                        |       |       |        |                             |                                        |                                  |                                          |                                    |                                          |                                    |                                            |                                      |
|--------------------------------------------|--------------------|------------------------|-------|-------|--------|-----------------------------|----------------------------------------|----------------------------------|------------------------------------------|------------------------------------|------------------------------------------|------------------------------------|--------------------------------------------|--------------------------------------|
| Drainage Area Designation                  | Drainage Area (ac) | Runoff Coefficient "C" |       |       |        | Time of Concentration (min) | 2-Year Rainfall Intensity (I2) (in/hr) | 2-Year Peak Discharge (Q2) (cfs) | 10-Year Rainfall Intensity (I10) (in/hr) | 10-Year Peak Discharge (Q10) (cfs) | 25-Year Rainfall Intensity (I25) (in/hr) | 25-Year Peak Discharge (Q25) (cfs) | 100-Year Rainfall Intensity (I100) (in/hr) | 100-Year Peak Discharge (Q100) (cfs) |
|                                            |                    | 2-Yr                   | 10-Yr | 25-Yr | 100-Yr |                             |                                        |                                  |                                          |                                    |                                          |                                    |                                            |                                      |
| X-1                                        | 22.10              | 0.31                   | 0.36  | 0.40  | 0.47   | 21                          | 3.57                                   | 24.82                            | 5.33                                     | 37.010                             | 6.87                                     | 45.64                              | 6.87                                       | 88.22                                |
| X-2                                        | 244.00             | 0.21                   | 0.26  | 0.40  | 0.47   | 52                          | 2.12                                   | 161.78                           | 3.19                                     | 242.263                            | 4.90                                     | 304.36                             | 5.33                                       | 406.08                               |
| Total                                      | 266.10             |                        |       |       |        |                             |                                        | 186.6                            |                                          | 280.278                            |                                          | 350.00                             |                                            | 466.31                               |

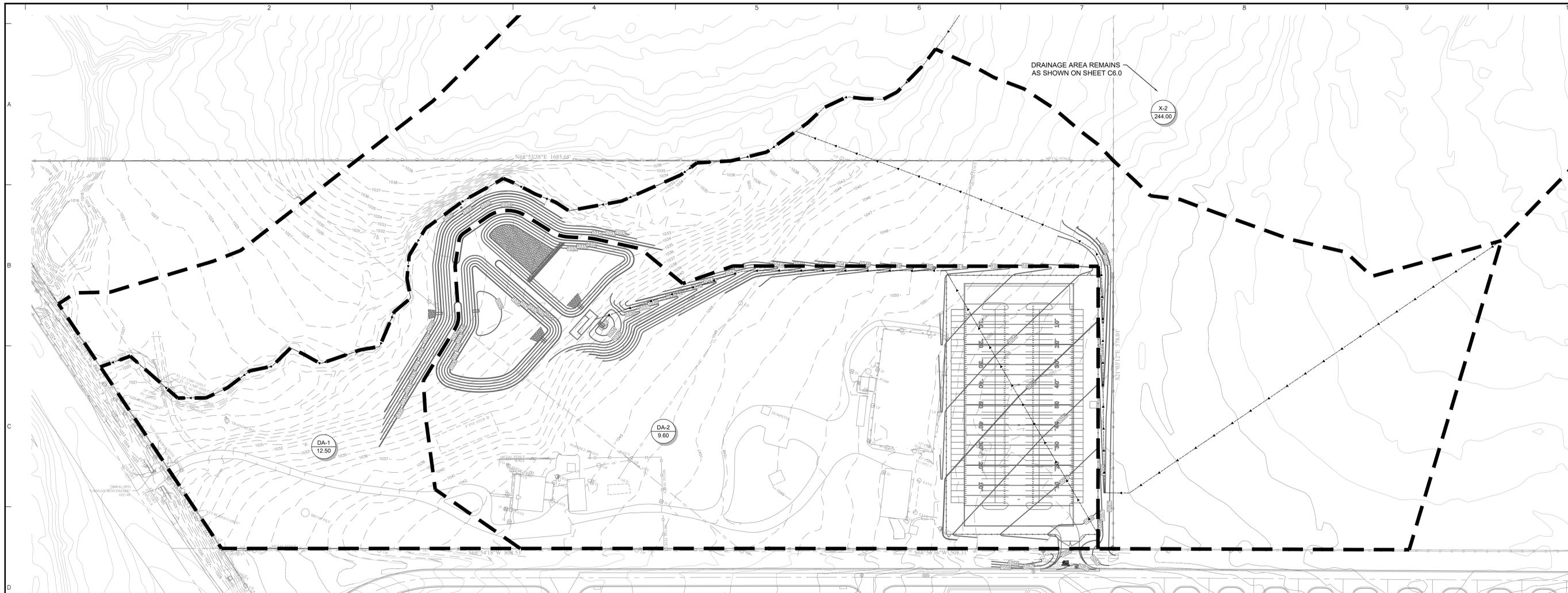
Note: Calculations based on the Rational Method: Q = C\*I\*A

| Drainage Area Designation | Sheet Flow    |                 |                   |                      |       |                | Shallow Concentrated Flow |                   |            |                   |                |                 | Total Time (T) (min) |                   |                |
|---------------------------|---------------|-----------------|-------------------|----------------------|-------|----------------|---------------------------|-------------------|------------|-------------------|----------------|-----------------|----------------------|-------------------|----------------|
|                           | Manning's (n) | Length (L) (ft) | Slope (S) (ft/ft) | 2-Yr, 24-hr rainfall |       | Time (T) (min) | Length (L) (ft)           | Slope (S) (ft/ft) | Cover Type | Velocity (ft/sec) | Time (T) (min) | Length (L) (ft) |                      | Velocity (ft/sec) | Time (T) (min) |
|                           |               |                 |                   | (in)                 | (min) |                |                           |                   |            |                   |                |                 |                      |                   |                |
| X-1                       | 0.15          | 100             | 0.007             | 4.06                 | 13    | 1028           | 0.03                      | Unpaved           | 2.79       | 6                 | 560            | 5.00            | 2                    | 21                |                |
| X-2                       | 0.15          | 100             | 0.005             | 4.06                 | 15    | 2815           | 0.01                      | Unpaved           | 1.61       | 27                | 2933           | 5.00            | 10                   | 52                |                |

Note: The time of concentration for each watershed was calculated using equations given in Chapter 3 of TR-55 - Urban Hydrology for Small Watersheds. Values for each overland "n" are taken from Table 3-1 of the previously reference manual.

**NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY**  
TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

LANGAN Project No. 531013327 © 2025 Langan



**LEGEND**

DRAINAGE BASIN: BASIN NAME (DA-00), ACRES (1.00)

DRAINAGE AREA: [Dashed line symbol]

PROPOSED FLOW ARROW: [Arrow symbol]

TIME OF CONCENTRATION: [Arrow symbol]

**POST-DEVELOPMENT DRAINAGE AREA CALCULATIONS**

| Drainage Area Designation | Drainage Area (ac) | Runoff Coefficient "C" |       |       |        | Time of Concentration (min) | 2-Year Rainfall Intensity (I <sub>2</sub> ) (in/hr) | 2-Year Peak Discharge (Q <sub>2</sub> ) (cfs) | 10-Year Rainfall Intensity (I <sub>10</sub> ) (in/hr) | 10-Year Peak Discharge (Q <sub>10</sub> ) (cfs) | 25-Year Rainfall Intensity (I <sub>25</sub> ) (in/hr) | 25-Year Peak Discharge (Q <sub>25</sub> ) (cfs) | 100-Year Rainfall Intensity (I <sub>100</sub> ) (in/hr) | 100-Year Peak Discharge (Q <sub>100</sub> ) (cfs) |
|---------------------------|--------------------|------------------------|-------|-------|--------|-----------------------------|-----------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------|---------------------------------------------------|
|                           |                    | 2-Yr                   | 10-Yr | 25-Yr | 100-Yr |                             |                                                     |                                               |                                                       |                                                 |                                                       |                                                 |                                                         |                                                   |
| DA-1                      | 12.50              | 0.31                   | 0.36  | 0.40  | 0.47   | 27                          | 3.11                                                | 12.07                                         | 4.65                                                  | 18.02                                           | 5.75                                                  | 22.28                                           | 7.60                                                    | 29.47                                             |
| DA-2                      | 9.60               | 0.44                   | 0.50  | 0.55  | 0.62   | 10                          | 5.02                                                | 21.42                                         | 7.51                                                  | 32.00                                           | 9.22                                                  | 39.33                                           | 12.14                                                   | 51.74                                             |
| X-2                       | 244.00             | 0.31                   | 0.36  | 0.40  | 0.47   | 52                          | 2.12                                                | 161.78                                        | 3.19                                                  | 243.26                                          | 4.00                                                  | 304.36                                          | 5.33                                                    | 406.09                                            |
| <b>Total</b>              | <b>266.10</b>      |                        |       |       |        |                             |                                                     | <b>195.27</b>                                 |                                                       | <b>293.28</b>                                   |                                                       | <b>365.97</b>                                   |                                                         | <b>457.30</b>                                     |

Note: Calculations based on the Rational Method: Q = C\*I\*A

**TIME OF CONCENTRATION CALCULATIONS**

| Drainage Area Designation | Manning's (n) | Sheet Flow      |           |                           |                              | Shallow Concentrated Flow |           |            |                   | Channel Flow                 |                 |                   |                              | Total Time (T <sub>t</sub> ) (min) |
|---------------------------|---------------|-----------------|-----------|---------------------------|------------------------------|---------------------------|-----------|------------|-------------------|------------------------------|-----------------|-------------------|------------------------------|------------------------------------|
|                           |               | Length (L) (ft) | Slope (s) | 2-Yr, 24-hr rainfall (in) | Time (T <sub>f</sub> ) (min) | Length (L) (ft)           | Slope (s) | Cover Type | Velocity (ft/sec) | Time (T <sub>f</sub> ) (min) | Length (L) (ft) | Velocity (ft/sec) | Time (T <sub>f</sub> ) (min) |                                    |
| DA-1                      | 0.15          | 100             | 0.01      | 4.06                      | 11                           | 1288                      | 0.013     | Unpaved    | 1.84              | 12                           | 1280            | 5.00              | 4                            | 27                                 |
| DA-2                      | 0.011         | 100             | 0.01      | 4.06                      | 1                            | 230                       | 0.026     | Paved      | 3.28              | 1                            | 528             | 5.00              | 2                            | 10                                 |
| X-2                       | 0.15          | 100             | 0.005     | 4.06                      | 15                           | 2615                      | 0.010     | Unpaved    | 1.61              | 27                           | 2933            | 5.00              | 10                           | 52                                 |

Note: The time of concentration for each watershed was calculated using equations given in Chapter 3 of TR-55 - Urban Hydrology for Small Watersheds. Values for each overland "n" are taken from Table 3-1 of the previously reference manual.

**NOTICE TO CONTRACTORS - TOPOGRAPHIC SURVEY**

TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PERFORMED BY LANGAN ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, IN WRITING, OF ANY DISCREPANCIES OR OMISSIONS TO THE TOPOGRAPHIC INFORMATION. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION (HORIZONTAL/VERTICAL) OF ANY BURIED CABLES, CONDUITS, PIPES, AND STRUCTURES (STORM SEWER, SANITARY SEWER, WATER, GAS, TELEVISION, TELEPHONE, ETC.) WHICH IMPACT THE CONSTRUCTION SITE. THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND BETWEEN THE ACTUAL CONDITIONS VERSUS THE DATA CONTAINED IN THE CONSTRUCTION PLANS. ANY COSTS INCURRED AS THE RESULT OF NOT CONFIRMING THE ACTUAL LOCATION (HORIZONTAL/VERTICAL) OF SAID CABLES, CONDUITS, PIPES, AND STRUCTURES SHALL BE BORNE BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR(S) SHALL NOTIFY THE OWNER AND ENGINEER IF ANY ERRORS OR DISCREPANCIES ARE FOUND ON THE CONSTRUCTION DOCUMENTS (PS&E), WHICH NEGATIVELY IMPACT THE PROJECT. THE ENGINEER AND OWNER SHALL BE INDEMNIFIED OF PROBLEMS AND/OR COST WHICH MAY RESULT FROM CONTRACTOR'S FAILURE TO NOTIFY ENGINEER AND OWNER.

**!!!CAUTION!!!**

EXISTING OVERHEAD & UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES BY VACUUM EXCAVATION OR OTHER POTHOLING TECHNIQUES.

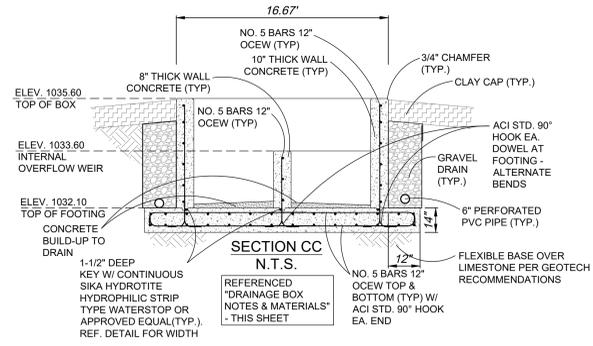
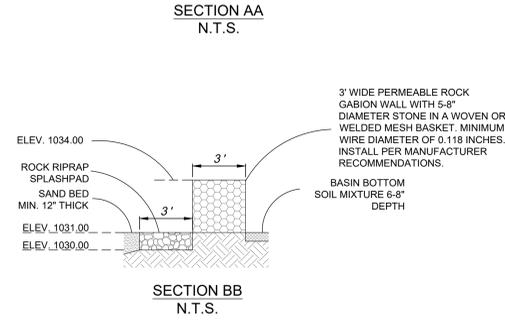
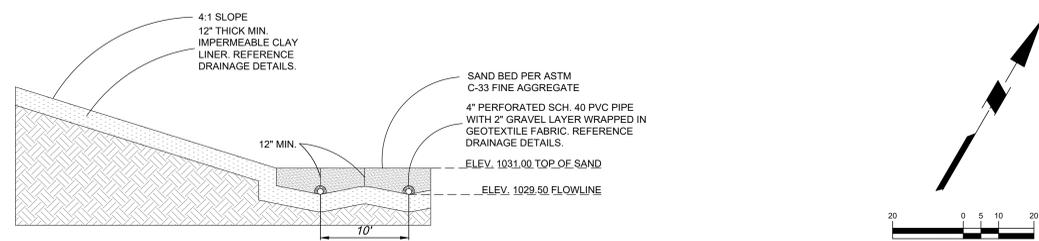
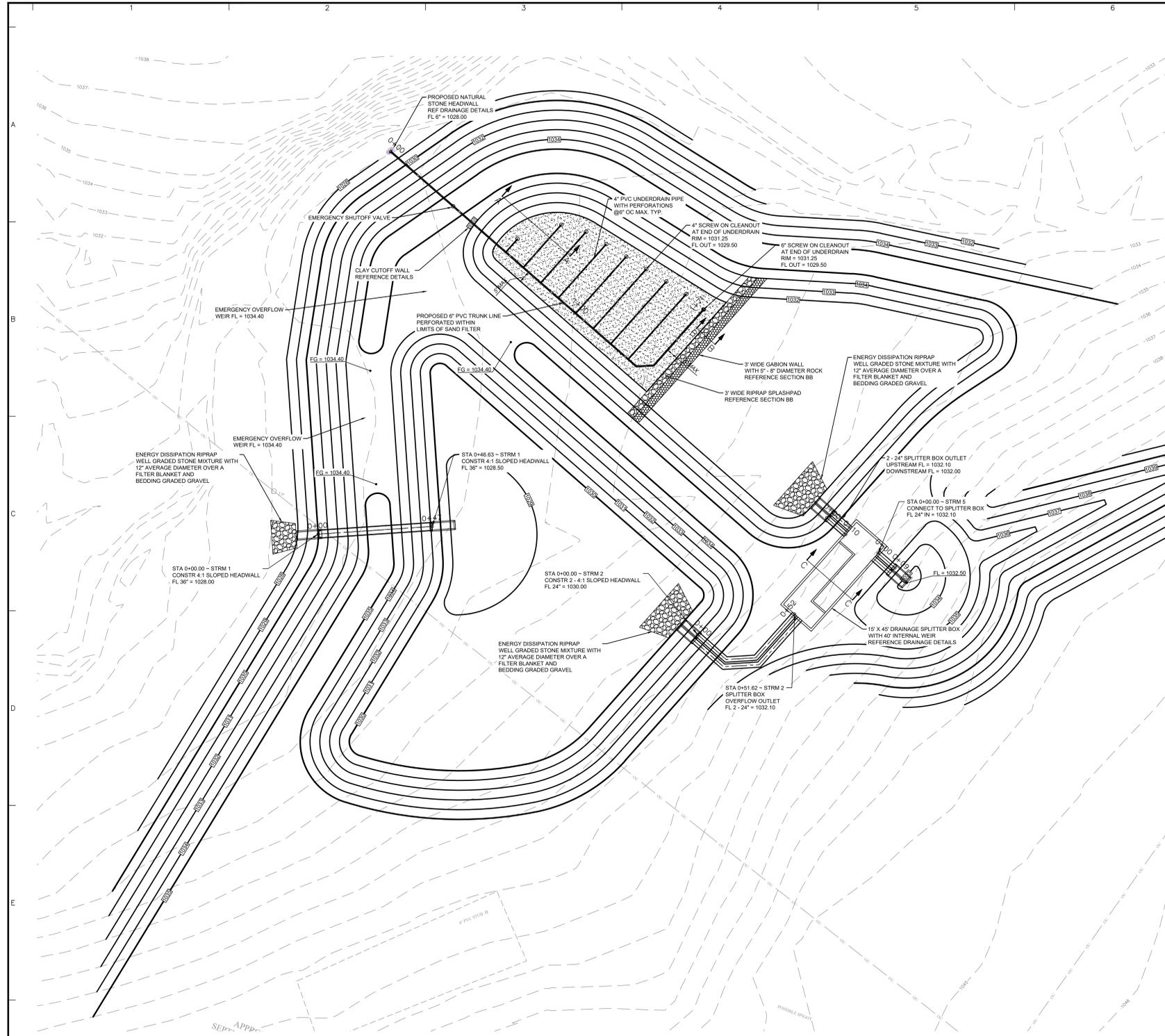
**811**

Know what's below.  
Call before you dig.

THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

| Date                                                                                                                                                                                            | Description | No.            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|
| Revisions                                                                                                                                                                                       |             |                |
|                                                                                                                                                                                                 |             |                |
| <br>Langan Engineering and Environmental Services, LLC.<br>9606 N. Mopac Expressway, Suite 110<br>Austin, TX 78759<br>T: 737.289.7800 F: 737.289.7801 www.langan.com<br>TRPE FIRM REG. #F-13709 |             |                |
| Project                                                                                                                                                                                         |             |                |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                       |             |                |
| LIBERTY HILL TEXAS                                                                                                                                                                              |             |                |
| Drawing Title                                                                                                                                                                                   |             |                |
| <b>PROPOSED DRAINAGE AREA MAP</b>                                                                                                                                                               |             |                |
| Project No.                                                                                                                                                                                     | Drawing No. |                |
| 531013327                                                                                                                                                                                       | C6.1        |                |
| Date                                                                                                                                                                                            | 12/05/2025  |                |
| Drawn By                                                                                                                                                                                        | AM          |                |
| Checked By                                                                                                                                                                                      | MH          |                |
|                                                                                                                                                                                                 |             | Sheet 13 of 18 |

LANGAN  
Project No. 531013327  
© 2025 Langan



**DRAINAGE BOX NOTES & MATERIALS:**

- CONCRETE-**
- CONCRETE WORK SHALL CONFORM TO ACI 301 AND ACI 350, LATEST EDITIONS.
  - $f_c = 4,000$  PSI COMPRESSIVE STRENGTH @ 28 DAYS
  - WATER CEMENT RATIO (w/c) OF 0.45
  - FLY ASH, F USED, SHALL BE TYPE F CONFORMING TO ASTM C 618 AND SHALL NOT EXCEED 20% OF CEMENTITIOUS MATERIAL BY WEIGHT.
  - ENTRAINED AIR SHALL BE 6%  $\pm$  1.5%
- REBAR & ACCESSORIES -**
- ASTM 615, GRADE 60
  - REBAR WORK SHALL CONFORM TO ACI 315, LATEST EDITION. ACCESSORIES TO BE EXPOSED TO EARTH, WEATHER, WATER, OR HIGH HUMIDITY SHALL BE FABRICATED OF STAINLESS STEEL OR PLASTIC. PROVIDE BOLSTERS AT WALLS, AND PROVIDE STANDEES AT SLABS WITH TWO LAYERS OF REINFORCING. FOR SLAB-ON-GRADE REINFORCING, PROVIDE CHAIRS MANUFACTURED FROM STAINLESS STEEL, PLASTIC OR PRECAST CONCRETE BLOCKS OF EQUAL OR GREATER COMPRESSIVE STRENGTH AS THE CONCRETE BEING PLACED.
  - ALL BARS SHALL BE CONTINUOUS UNLESS NOTED OR SHOWN OTHERWISE. LAP SPLICES OF CONTINUOUS BARS SHALL BE 48 BAR DIAMETERS, UNLESS OTHERWISE NOTED.
- DRAINAGE -**
- 2'-0" WIDE GRAVEL DRAIN TO 18"  $\pm$  BELOW FINISHED SURFACE WITH 6" DIAMETER PERFORATED PVC PIPE. CONNECT PVC TO DRAIN TO 2'-48" LINE GOING TO DETENTION POND. FOR GRAVEL DRAIN, USE WASHED-AGGREGATE GRAVEL WRAPPED IN GEOTEXTILE FABRIC (NON-WOVEN POLYESTER - OVERLAP FABRIC MIN. 12"). MAXIMUM AGGREGATE SIZE 1-1/2" (NOMINAL 1").
  - MINIMUM 1'-0" CLAY CAP OVER GRAVEL DRAIN.

**\*\*CZP CALCULATIONS\*\***

PROPOSED POND  
CURRENT PROPOSED DRAINAGE AREA = 9.60 AC  
CURRENT PROPOSED IMPERVIOUS COVER = 3.44 AC  
CURRENT PROPOSED REQUIRED VOLUME = 16,359 CF  
CURRENT PROPOSED MINIMUM FILTER BASIN AREA = 1,380 SF

FUTURE DRAINAGE AREA = 15.55 AC  
FUTURE IMPERVIOUS COVER = 5.75 AC  
FUTURE REQUIRED VOLUME = 27,334 CF  
FUTURE MINIMUM FILTER BASIN AREA = 2,278 SF

POND VOLUME PROVIDED = 34,360 CF  
FILTER BASIN AREA PROVIDED = 3,417 SQ FT

\*ALL FUTURE CONDITIONS ARE APPROXIMATE IN NATURE AND ARE NOT BASED ON ANY COMPLETED DESIGN. ANY FUTURE ADDITIONS TO THE PROPERTY WITHIN THE DRAINAGE BASIN OF THE DETENTION AND WATER QUALITY PONDS WILL BE SUBJECT TO REVIEW CRITERIA AT THE TIME OF THAT FUTURE SUBMITTAL.

- GENERAL SITE NOTES:**
- CONTRACTOR TO ENSURE EDWARDS AQUIFER (EA) PERMITTING IS IN PLACE AND REVIEWED BEFORE BEGINNING ANY SITE DISTURBANCE.
  - ALL TEMPORARY EROSION CONTROLS SHALL BE INSTALLED PER EA REQUIREMENTS PRIOR TO ANY SITE DISTURBANCE.
  - CONTRACTOR SHALL REVIEW AND REFERENCE SITE GEOTECHNICAL REPORT PREPARED BY ALLIANCE ENGINEERING GROUP AND TITLED "SUBSURFACE EXPLORATION AND GEOTECHNICAL EVALUATION FOR LIBERTY HILL MIDDLE SCHOOL #5 LIBERTY HILL, TEXAS" OR ANY ADDITIONS OR ADDENDUMS TO THE ORIGINAL REPORT.
  - CONTRACTOR SHALL PROPERLY DISPOSE OF ANY DEMOLISHED SITE FEATURES OR UTILITIES OFFSITE. BURYING DEMOLISHED ELEMENTS WILL NOT BE ALLOWED.
  - CONTRACTOR SHALL WORK WITH PROJECT GEOTECHNICAL ENGINEER AND PROJECT CONSTRUCTION MATERIALS TESTING LAB TO IDENTIFY ONSITE CLAY SOIL TO USE IN CREATING THE PERMANENT CLAY LINER FOR THE POND.
  - ONSITE TOPSOIL IN THE AREA OF DISTURBANCE SHALL BE STRIPPED AND STOCKPILED FOR USE IN REVEGETATION OF DISTURBED AREAS. NO ADDITIONAL PAY ITEM WILL BE ALLOWED FOR TOPSOIL IMPORT. CONTRACTOR TO USE ONSITE SOILS SUITABLE FOR HEALTHY REVEGETATION OF PROJECT.
  - ALL ONSITE FILL AREAS SHALL BE STRIPPED, PROCESSED, AND COMPACTED UNDER THE DIRECTION OF THE PROJECT GEOTECH AND PROJECT CMT LAB. THE DISTRICT WILL USE UNKNOWN PORTIONS OF THE FILL AREAS AS FUTURE BUILDING EXPANSIONS. THEREFORE, CONTRACTOR WILL NEED TO PLACE ALL FILL IN A CONTROLLED MANNER AS DIRECTED BY THE PROJECT GEOTECH AND THE PROJECT CMT LAB.
  - CONTRACTOR TO WORK CLOSELY WITH THE PROJECT GEOTECHNICAL ENGINEERING MATERIAL TESTING FIRM TO ENSURE MATERIAL USED TO CONSTRUCT ANY FEATURE USED TO IMPOUND WATER WILL REMAIN WATER TIGHT AND RESISTANT TO SOIL PIPING THROUGH THE FEATURE'S LIFE SPAN.
  - ALL CONDUITS ENTERING THE WATER IMPROVEMENT STRUCTURE (WATER QUALITY POND) SHALL INCLUDE CLAY DAMS TO ENSURE THERE IS NO SOIL PIPING TO OR FROM THE CONDUIT EMBEDMENT MATERIAL.

| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |



**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TXPE FIRM REG. #F-13709

Project  
**CONNER TRACT BAND PARKING ADDITION**

LIBERTY HILL  
WILLAMSON COUNTY TEXAS

Drawing Title  
**WATER QUALITY PLAN**

|                                 |                            |
|---------------------------------|----------------------------|
| Project No.<br><b>531013327</b> | Drawing No.<br><b>C6.2</b> |
| Date<br>12/05/2025              |                            |
| Drawn By<br>AM                  |                            |
| Checked By<br>MH                |                            |
|                                 | Sheet 14 of 18             |



THESE PLANS ARE SUBJECT TO REVIEW & APPROVAL BY JURISDICTIONAL ENTITIES.

Additional information is provided for calls with a red triangle in the upper right corner. Place the cursor over the call. 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:  $L_{wT} = 27.2(A_{ni} \times P)$

where:  $L_{wT}$  TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load  
 $A_{ni}$  = Net increase in impervious area for the project  
 $P$  = Average annual precipitation, inches

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

|                                                                      |            |
|----------------------------------------------------------------------|------------|
| County                                                               | Williamson |
| Total project area included in plan                                  | 9.00 acres |
| Predevelopment impervious area within the limits of the plan         | 0.00 acres |
| Total post-development impervious area within the limits of the plan | 3.44 acres |
| Total post-development impervious cover fraction                     | 0.36       |
| P                                                                    | 32 inches  |

$L_{wT}$  TOTAL PROJECT = 2994 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

|                                                                         |            |
|-------------------------------------------------------------------------|------------|
| Total drainage basin/outfall area                                       | 9.00 acres |
| Predevelopment impervious area within drainage basin/outfall area       | 0.00 acres |
| Post-development impervious area within drainage basin/outfall area     | 3.44 acres |
| Post-development impervious fraction within drainage basin/outfall area | 0.36       |
| $L_{wT}$ THIS BASIN                                                     | 2994 lbs.  |

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = Sand Filter  
Removal efficiency = 89 percent

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

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

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

where:  $A_i$  = Total On-Site drainage area in the BMP catchment area  
 $A_p$  = 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

|       |            |
|-------|------------|
| $A_i$ | 9.00 acres |
| $A_p$ | 3.44 acres |
| $A_p$ | 6.16 acres |
| $L_R$ | 3485 lbs   |

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

Desired  $L_{wT}$  THIS BASIN = 2994 lbs.

F = 0.86

**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                      | 1.38 inches      |
| Post Development Runoff Coefficient | 0.29             |
| On-site Water Quality Volume        | 13799 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 = 2760

Total Capture Volume (required water quality volume(s) x 1.20) = 16559 cubic feet

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

**9B. Partial Sedimentation and Filtration System**

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Water Quality Volume for combined basins | 16559 cubic feet                                   |
| Minimum filter basin area                | 1380 square feet                                   |
| Maximum sedimentation basin area         | 5520 square feet For minimum water depth of 2 feet |
| Minimum sedimentation basin area         | 345 square feet For maximum water depth of 8 feet  |

Additional information is provided for calls with a red triangle in the upper right corner. Place the cursor over the call. 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:  $L_{wT} = 27.2(A_{ni} \times P)$

where:  $L_{wT}$  TOTAL PROJECT = Required TSS removal resulting from the proposed development = 80% of increased load  
 $A_{ni}$  = 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                                  | 15.55 acres |
| Predevelopment impervious area within the limits of the plan         | 0.00 acres  |
| Total post-development impervious area within the limits of the plan | 5.75 acres  |
| Total post-development impervious cover fraction                     | 0.37        |
| P                                                                    | 32 inches   |

$L_{wT}$  TOTAL PROJECT = 5005 lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Total drainage basin/outfall area                                       | 15.55 acres |
| Predevelopment impervious area within drainage basin/outfall area       | 0.00 acres  |
| Post-development impervious area within drainage basin/outfall area     | 5.75 acres  |
| Post-development impervious fraction within drainage basin/outfall area | 0.37        |
| $L_{wT}$ THIS BASIN                                                     | 5005 lbs.   |

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = Sand Filter  
Removal efficiency = 89 percent

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

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

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

where:  $A_i$  = 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

|       |             |
|-------|-------------|
| $A_i$ | 15.55 acres |
| $A_p$ | 5.75 acres  |
| $A_p$ | 9.80 acres  |
| $L_R$ | 5817 lbs    |

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

Desired  $L_{wT}$  THIS BASIN = 5005 lbs.

F = 0.86

**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                      | 1.38 inches      |
| Post Development Runoff Coefficient | 0.29             |
| On-site Water Quality Volume        | 22779 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 = 4556

Total Capture Volume (required water quality volume(s) x 1.20) = 27334 cubic feet

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

**9B. Partial Sedimentation and Filtration System**

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Water Quality Volume for combined basins | 27334 cubic feet                                   |
| Minimum filter basin area                | 2278 square feet                                   |
| Maximum sedimentation basin area         | 9111 square feet For minimum water depth of 2 feet |
| Minimum sedimentation basin area         | 569 square feet For maximum water depth of 8 feet  |

**Pond Report**

**Pond No. 1 - WQ Pond**

**Pond Data**

Contours -User-defined contour areas. Average end area method used for volume calculation. Beginning Elevation = 1031.00 ft

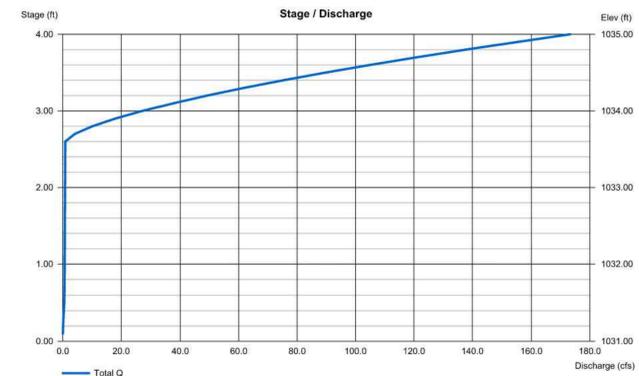
**Stage / Storage Table**

| Stage (ft) | Elevation (ft) | Contour area (sqft) | Incr. Storage (cuft) | Total storage (cuft) |
|------------|----------------|---------------------|----------------------|----------------------|
| 0.00       | 1031.00        | 3,417               | 0                    | 0                    |
| 1.00       | 1032.00        | 11,364              | 7,401                | 7,401                |
| 2.00       | 1033.00        | 13,454              | 12,419               | 19,820               |
| 3.00       | 1034.00        | 15,624              | 14,539               | 34,359               |
| 4.00       | 1035.00        | 17,891              | 16,768               | 51,116               |

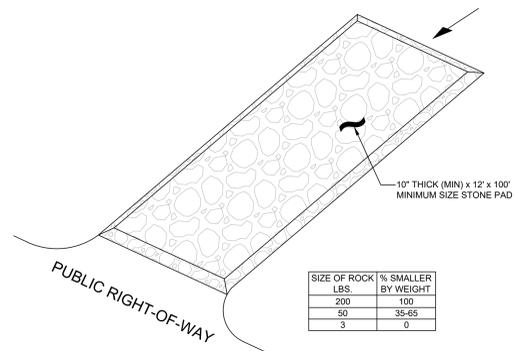
**Culvert / Orifice Structures**

|                 | [A]     | [B]  | [C]  | [PrFRsr] | [A]            | [B]     | [C]           | [D]  |
|-----------------|---------|------|------|----------|----------------|---------|---------------|------|
| Rise (in)       | 6.00    | 0.00 | 0.00 | 0.00     | Crest Len (ft) | 40.00   | 0.00          | 0.00 |
| Span (in)       | 6.00    | 0.00 | 0.00 | 0.00     | Crest El. (ft) | 1033.60 | 0.00          | 0.00 |
| No. Barrels     | 1       | 0    | 0    | 0        | Weir Coeff.    | 2.60    | 3.33          | 3.33 |
| Invert El. (ft) | 1031.00 | 0.00 | 0.00 | 0.00     | Weir Type      | Broad   | ---           | ---  |
| Length (ft)     | 133.00  | 0.00 | 0.00 | 0.00     | Multi-Stage    | No      | No            | No   |
| Slope (%)       | 1.00    | 0.00 | 0.00 | n/a      |                |         |               |      |
| N-Value         | 0.13    | .013 | .013 | n/a      | Exfil. (in/hr) | 0.000   | (by Wet area) |      |
| Orifice Coeff.  | 0.60    | 0.60 | 0.60 | 0.60     | TW Elev. (ft)  | 0.00    |               |      |
| Multi-Stage     | n/a     | No   | No   | No       |                |         |               |      |

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (is).



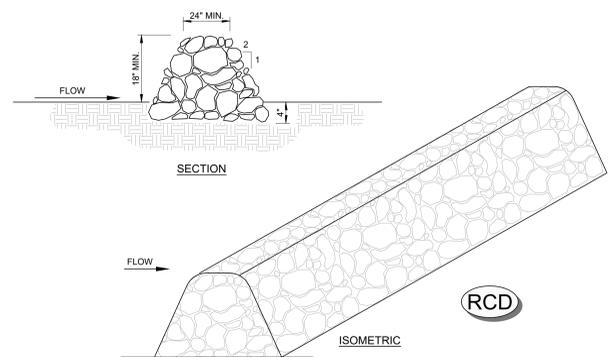
| Date                                                                                                                                                                                                                     | Description    | No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|
| Revisions                                                                                                                                                                                                                |                |     |
|                                                                                                                                                                                                                          |                |     |
| <p><b>LANGAN</b><br/>Langan Engineering and Environmental Services, LLC.<br/>9606 N. Mopac Expressway, Suite 110<br/>Austin, TX 78759<br/>T: 737.289.7800 F: 737.289.7801 www.langan.com<br/>TXPE FIRM REG. #F-13709</p> |                |     |
| Project                                                                                                                                                                                                                  |                |     |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                                                |                |     |
| LIBERTY HILL                                                                                                                                                                                                             |                |     |
| WILLIAMSON COUNTY TEXAS                                                                                                                                                                                                  |                |     |
| Drawing Title                                                                                                                                                                                                            |                |     |
| <b>WATER QUALITY CALCULATIONS</b>                                                                                                                                                                                        |                |     |
| Project No.                                                                                                                                                                                                              | Drawing No.    |     |
| 531013327                                                                                                                                                                                                                | <b>C6.3</b>    |     |
| Date                                                                                                                                                                                                                     |                |     |
| 12/05/2025                                                                                                                                                                                                               |                |     |
| Drawn By                                                                                                                                                                                                                 |                |     |
| AM                                                                                                                                                                                                                       |                |     |
| Checked By                                                                                                                                                                                                               |                |     |
| MH                                                                                                                                                                                                                       | Sheet 15 of 18 |     |



| SIZE OF ROCK LBS. | % SMALLER BY WEIGHT |
|-------------------|---------------------|
| 200               | 100                 |
| 50                | 35-65               |
| 3                 | 0                   |

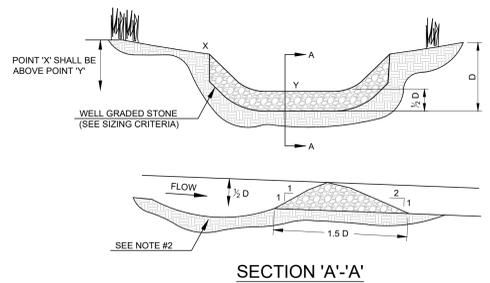
- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY. WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER COURSE.
  - ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

**TEMPORARY CONSTRUCTION EXIT POINT**  
N.T.S.

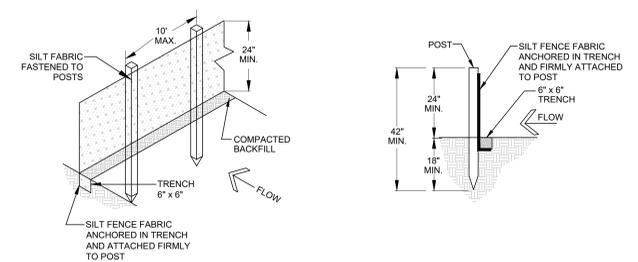


- NOTES:**
- USE ONLY OPEN-GRADED ROCK, WITH MOST OF THE FINES REMOVED.
  - STONE SHALL BE CRUSHED, MIN. 3" DIAMETER, MAX. 1 CU. FT. IN VOLUME.
  - THE ROCK BERM SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF 4 INCHES.
  - INSPECT BERM AFTER EACH RAIN. REPLACE STONE WHEN THE STRUCTURE FAILS TO SERVE ITS PURPOSE DUE TO SILT ACCUMULATION, WASHOUT OR DAMAGE.
  - REMOVE SILT WHEN IT REACHES A DEPTH OF 12 INCHES, OR ONE-THIRD OF THE HEIGHT OF THE BERM, WHICHEVER IS LESS. DISPOSE OF SILT IN APPROVED LOCATIONS.
  - REMOVE BERM ONLY WHEN SITE IS COMPLETELY STABILIZED.

**ROCK CHECK DAM**  
N.T.S.

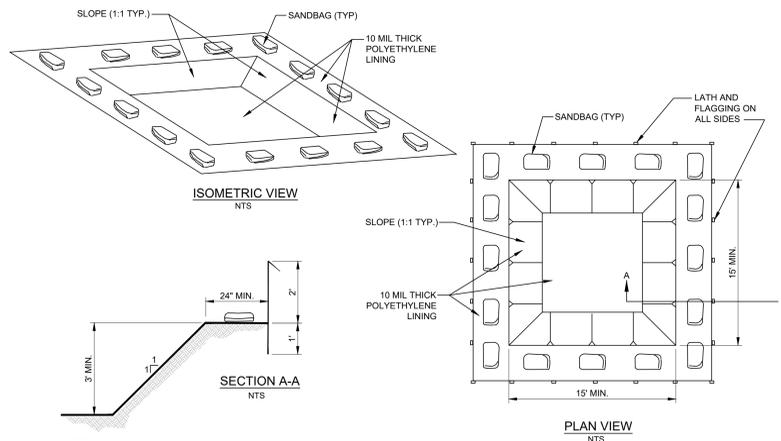


- ROCK CHECK DAM GENERAL NOTES:**
- STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 3" TO 6" IN DIAMETER DEPENDING ON EXPECTED FLOWS.
  - CONTRACTOR SHALL EXCAVATE A DEPRESSION AT UPSTREAM FACE TO ALLOW FOR ACCUMULATION OF SILTATION.
  - THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
  - WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
  - WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.



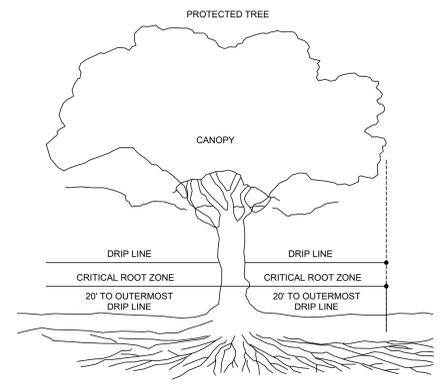
- SILT FENCE GENERAL NOTES:**
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
  - THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
  - THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
  - SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
  - INSPECTION SHALL BE MADE IN ACCORDANCE WITH PERMIT REQUIREMENTS. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE.
  - ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

**SILT FENCE**  
N.T.S.

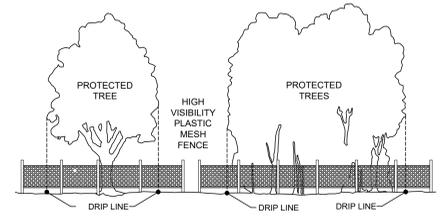


- NOTES:**
- ACTUAL LAYOUT, SIZE AND LOCATION TO BE DETERMINED BY CONTRACTOR.
  - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
  - ONCE CONCRETE WASTES ARE ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED AND DISPOSED OF PROPERLY. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.

**TEMPORARY CONCRETE WASHOUT AREA**  
N.T.S.

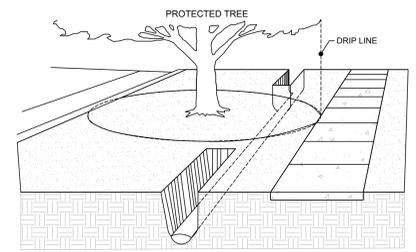


**CRITICAL ROOT ZONE AREA**  
N.T.S.

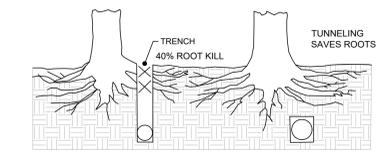


- PROTECTIVE FENCING:** ORANGE VINYL CONSTRUCTION FENCING, CHAIN LINK FENCING, SNOW FENCING, OR OTHER SIMILAR FENCING AT LEAST FOUR FEET (4') HIGH AND SUPPORTED AT A MAXIMUM OF TEN-FOOT (10') INTERVALS BY APPROVED METHODS SUFFICIENT ENOUGH TO KEEP THE FENCE UPRIGHT AND IN PLACE. THE FENCING SHALL BE OF A HIGHLY VISIBLE MATERIAL.
- PRIOR TO CONSTRUCTION:** THE CONTRACTOR OR SUBCONTRACTOR SHALL CONSTRUCT AND MAINTAIN, FOR EACH PROTECTED TREE OR GROUP OF TREES ON A CONSTRUCTION SITE, A PROTECTIVE FENCING WHICH ENCIRCLES THE OUTER LIMITS OF THE CRITICAL ROOT ZONE OF THE TREES TO PROTECT IT FROM CONSTRUCTION ACTIVITY. ALL PROTECTIVE FENCING SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY SITE WORK AND REMAIN IN PLACE UNTIL ALL EXTERIOR WORK HAS BEEN COMPLETED.

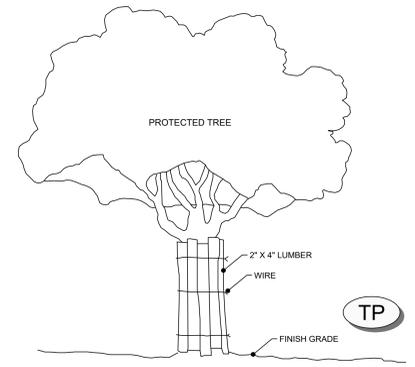
**TREE PROTECTION FENCING**  
N.T.S.



BORING: BORING OF UTILITIES UNDER PROTECTED TREES SHALL BE REQUIRED IN THOSE CIRCUMSTANCES WHERE IT IS NOT POSSIBLE TO TRENCH AROUND THE CRITICAL ROOT ZONE OF THE PROTECTED TREE. WHEN REQUIRED, THE LENGTH OF THE BORE SHALL BE THE WIDTH OF THE CRITICAL ROOT ZONE AT A MINIMUM AND SHALL BE A MINIMUM DEPTH OF 48 INCHES.

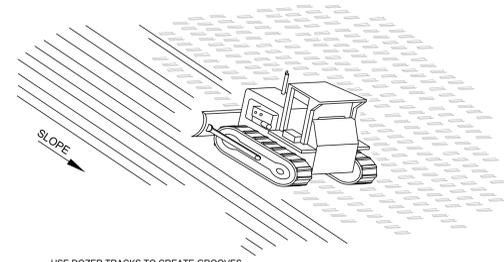


**BORING AND TUNNELING**  
N.T.S.



IN SITUATIONS WHERE A PROTECTED TREE REMAINS IN THE IMMEDIATE AREA OF INTENDED CONSTRUCTION AND THE TREE MAY BE IN DANGER OF BEING DAMAGED BY CONSTRUCTION EQUIPMENT OR OTHER ACTIVITY, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROTECT THE TREE WITH 2" x 4" LUMBER ENCIRCLED WITH WIRE OR OTHER MEANS THAT DO NOT DAMAGE THE TREE. THE INTENT IS TO PROTECT THE TRUNK OF THE TREE AGAINST INCIDENTAL CONTACT BY LARGE CONSTRUCTION EQUIPMENT.

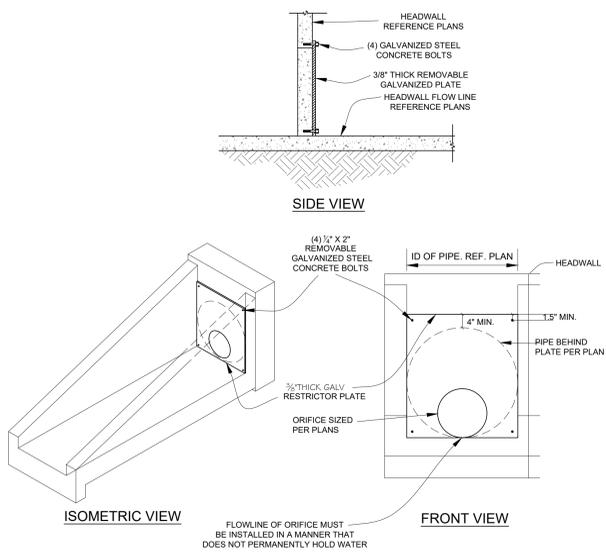
**BARK PROTECTION**  
N.T.S.



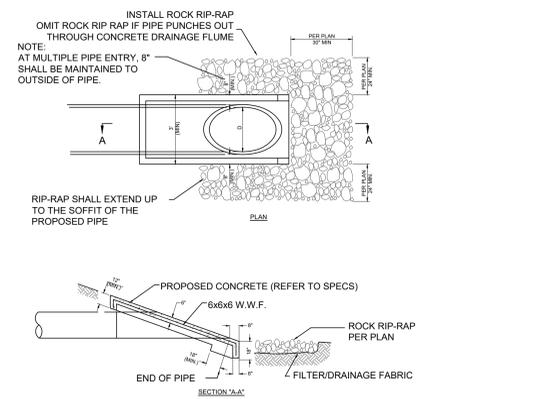
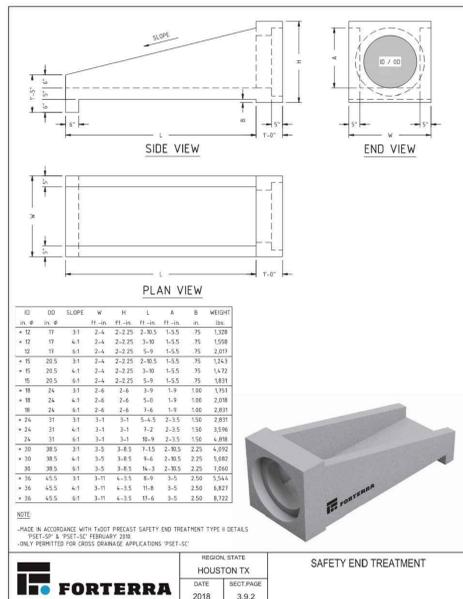
USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

**TRACKING DETAIL**  
N.T.S.

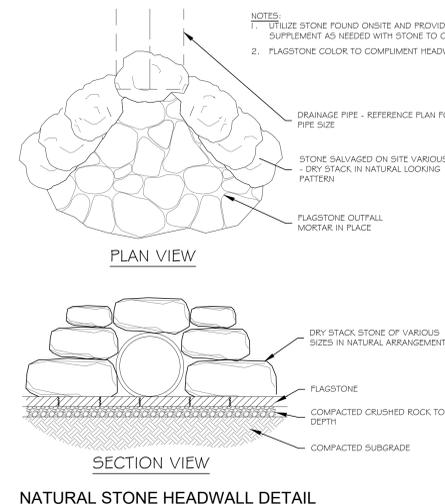
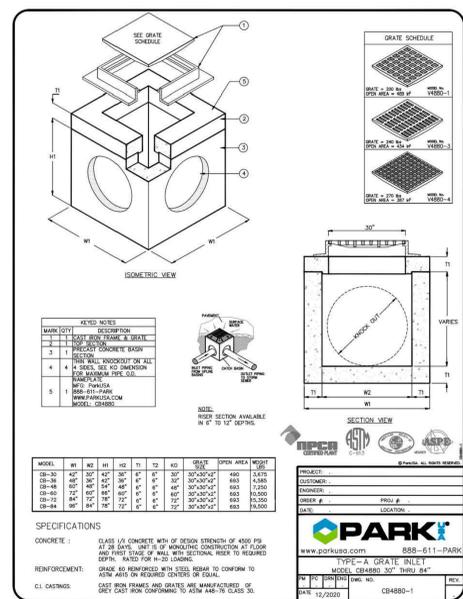
| Date                                                                                                                                                                                                                     | Description | No. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|
| Revisions                                                                                                                                                                                                                |             |     |
|                                                                                                                                                                                                                          |             |     |
| <p><b>LANGAN</b><br/>Langan Engineering and Environmental Services, LLC.<br/>9606 N. Mopac Expressway, Suite 110<br/>Austin, TX 78759<br/>T: 737.289.7800 F: 737.289.7801 www.langan.com<br/>TRPE FIRM REG. #F-13709</p> |             |     |
| Project                                                                                                                                                                                                                  |             |     |
| <b>CONNER TRACT BAND PARKING ADDITION</b>                                                                                                                                                                                |             |     |
| LIBERTY HILL TEXAS                                                                                                                                                                                                       |             |     |
| Drawing Title                                                                                                                                                                                                            |             |     |
| <b>EROSION CONTROL DETAILS</b>                                                                                                                                                                                           |             |     |
| Project No.                                                                                                                                                                                                              | Drawing No. |     |
| 531013327                                                                                                                                                                                                                | C7.0        |     |
| Date                                                                                                                                                                                                                     | 12/05/2025  |     |
| Drawn By                                                                                                                                                                                                                 | AM          |     |
| Checked By                                                                                                                                                                                                               | MH          |     |
| Sheet 16 of 18                                                                                                                                                                                                           |             |     |



RESTRICTOR PLATE DETAIL



HEADWALL/OUTFALL DETAIL



NATURAL STONE HEADWALL DETAIL

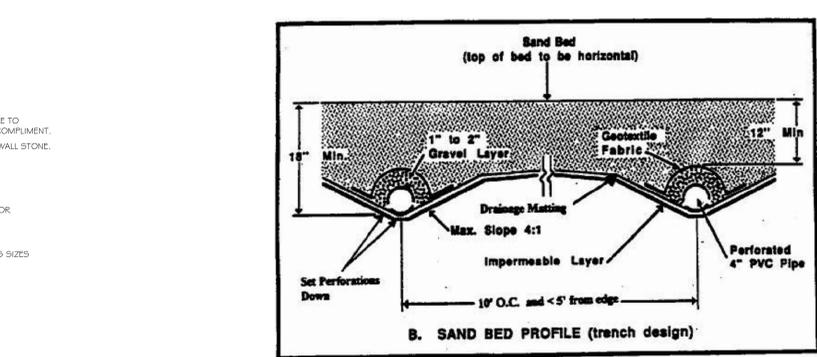
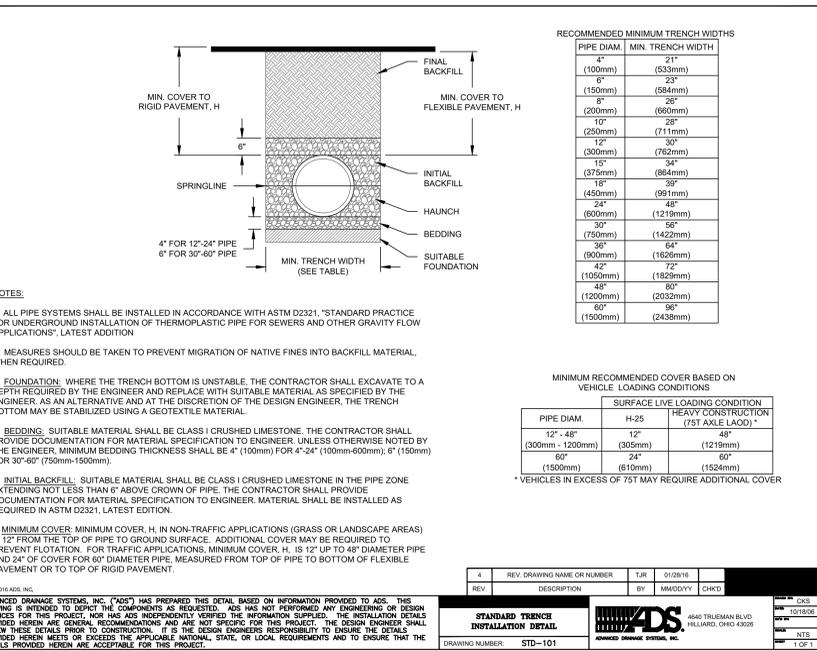
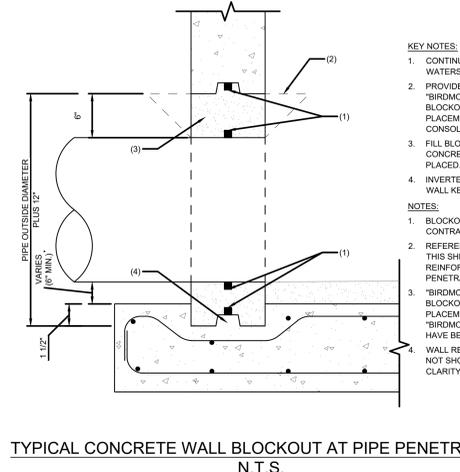


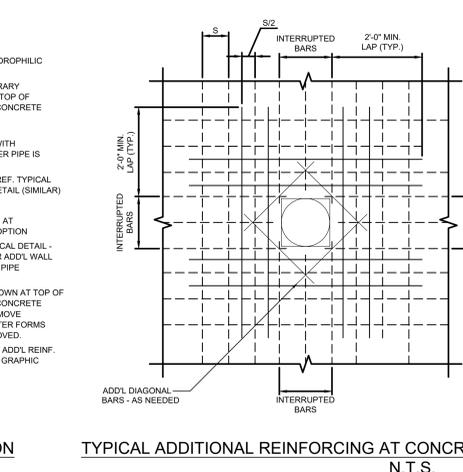
Table 3-6 Clay Liner Specifications (COA, 2004)

| Property                 | Test Method        | Unit   | Specification                   |
|--------------------------|--------------------|--------|---------------------------------|
| Permeability             | ASTM D-2434        | cm/sec | 1 x 10 <sup>-6</sup>            |
| Plasticity Index of Clay | ASTM D-423 & D-424 | %      | Not less than 15                |
| Liquid Limit of Clay     | ASTM D-2216        | %      | Not less than 30                |
| Clay Particles Passing   | ASTM D-422         | %      | Not less than 30                |
| Clay Compaction          | ASTM D-2216        | %      | 95% of Standard Proctor Density |

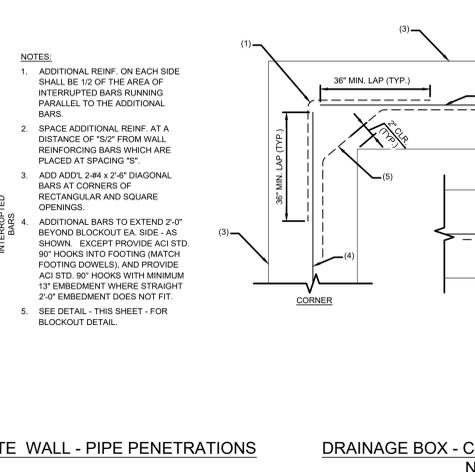
WATER QUALITY CLAY LINER REQUIREMENTS



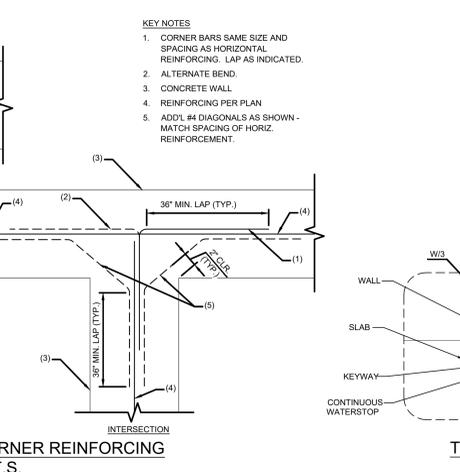
TYPICAL CONCRETE WALL BLOCKOUT AT PIPE PENETRATION



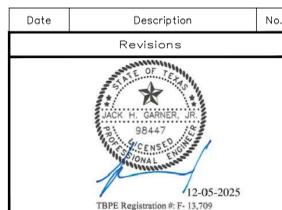
TYPICAL ADDITIONAL REINFORCING AT CONCRETE WALL - PIPE PENETRATIONS



DRAINAGE BOX - CORNER REINFORCING



TYPICAL WALL KEYWAY



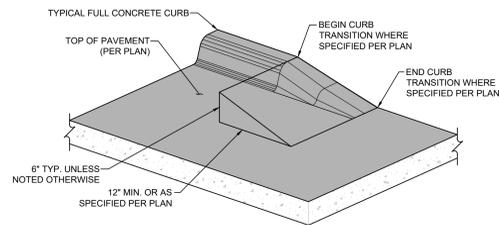
**LANGAN**  
Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759  
T: 737.289.7800 F: 737.289.7801 www.langan.com  
TRPE FIRM REG. #F-13709

Project  
**CONNER TRACT BAND PARKING ADDITION**  
LIBERTY HILL TEXAS  
Drawing Title

Project No. 531013327  
Date 12/05/2025  
Drawn By AM  
Checked By MH

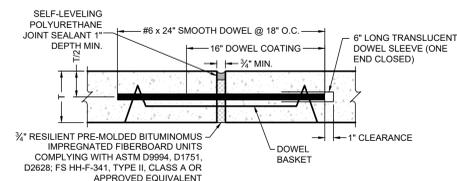
Drawing No. C7.1  
Sheet 17 of 18

Project No. 531013327



**CURB TRANSITION/TERMINATION**

N.T.S.

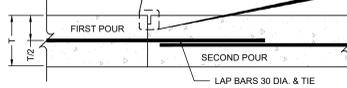
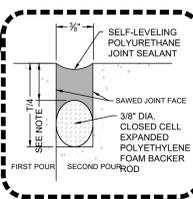


- NOTES:
1. SLEEVES FOR DOWELS SHALL HAVE AN INSIDE DIAMETER OF 1/8" GREATER THAN THE DIAMETER OF THE DOWELS AND SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO USE.
  2. EXPANSION JOINTS SHALL BE CONSTRUCTED A MAXIMUM OF 500' APART ON STRAIGHT PAVING, AND WHERE INDICATED PER THE AMERICAN CONCRETE PAVEMENT ASSOCIATION'S TECHNICAL PUBLICATION ACPA IS061.01P (LATEST VERSION).
  3. DOWEL COATINGS SHALL BE ASPHALTIC COATING.
  4. DOWELS SHALL BE SUPPORTED WITH APPROVED BASKETS AND NOT BE TIED TO OTHER REINFORCEMENT.
  5. REFER TO SIDEWALK DETAILS THIS SHEET FOR EXPANSION JOINTS IN SIDEWALK AREAS.
  6. ALL PAVEMENT LOCATED WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE GOVERNING AUTHORITY'S SPECIFICATIONS, DETAILS & REQUIREMENTS FOR PUBLIC PAVEMENT.
  7. FINISHED SURFACES SHALL BE INSTALLED FLUSH WITH A DIFFERENTIAL ELEVATION NOT TO EXCEED 1/8".

**EXPANSION JOINT (ISOLATION)**

N.T.S.

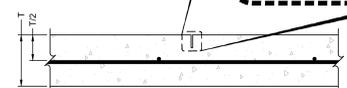
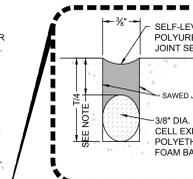
- NOTES:
1. DEPTH OF JOINT SEALANT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
  2. ALL PAVEMENT LOCATED WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE GOVERNING AUTHORITY'S SPECIFICATIONS, DETAILS & REQUIREMENTS FOR PUBLIC PAVEMENT.



**CONSTRUCTION BUTT JOINT**

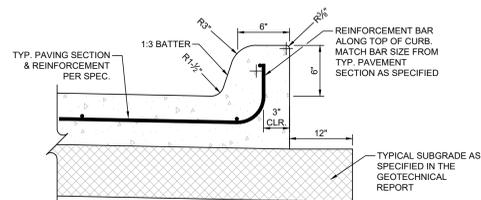
N.T.S.

- NOTES:
1. DEPTH OF JOINT SEALANT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
  2. CONTROL JOINTS SHALL BE CONSTRUCTED WHERE INDICATED PER THE AMERICAN CONCRETE PAVEMENT ASSOCIATION'S TECHNICAL PUBLICATION ACPA IS061.01P (LATEST VERSION).
  3. ALL PAVEMENT LOCATED WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE GOVERNING AUTHORITY'S SPECIFICATIONS, DETAILS & REQUIREMENTS FOR PUBLIC PAVEMENT.



**CONTROL JOINT (CONTRACTION)**

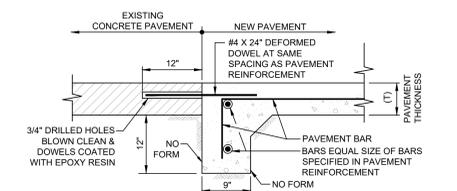
N.T.S.



- NOTE:
1. ALL CURBS ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SHOWN.
  2. GRADES SHALL BE MEASURED AT BACK OF CURB UNLESS OTHERWISE SPECIFIED.
  3. ALL PAVEMENT LOCATED WITHIN THE PUBLIC R.O.W. SHALL CONFORM TO THE GOVERNING AUTHORITY'S SPECIFICATIONS, DETAILS & REQUIREMENTS FOR PUBLIC PAVEMENT.
  4. CONTROL JOINTS THROUGH CURB SHALL BE SEALED IN THE PAVEMENT AND TERMINATE AT THE GUTTER.

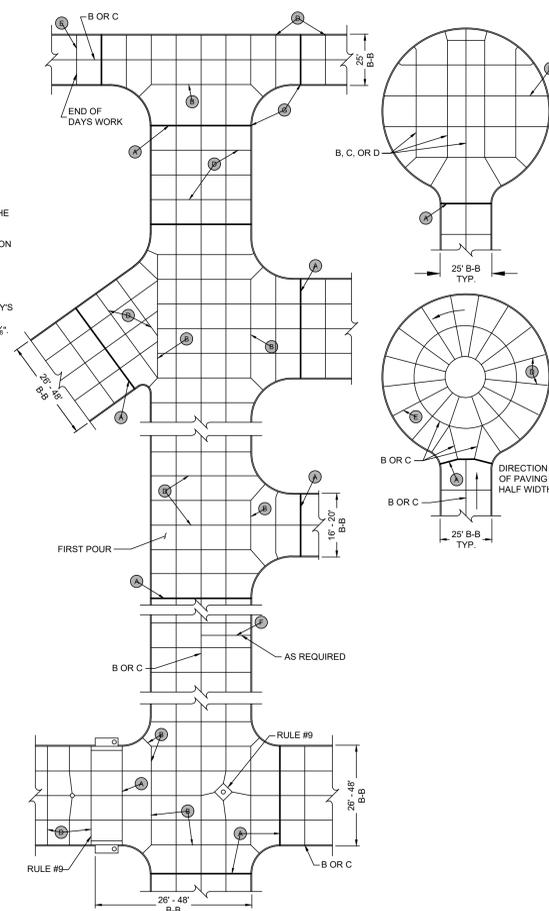
**MONOLITHIC CURB DETAIL**

N.T.S.



**STREET HEADER AT EXISTING PAVEMENT**

N.T.S.



- KEY NOTES:
- A. EXPANSION JOINT (ISOLATION)
  - B. LONGITUDINAL CONSTRUCTION JOINT
  - C. LONGITUDINAL CONTROL JOINT (CONTRACTION)
  - D. TRANSVERSE CONTROL JOINT (CONTRACTION)
  - E. PLANNED TRANSVERSE CONSTRUCTION JOINT
  - F. EMERGENCY TRANSVERSE CONSTRUCTION JOINT
  - G. PLACE 1/2" EXPANSION JOINT FILLER IN TOP OF CURB ONLY AT ALL RADIUS POINTS

- RULES:
1. AVOID ODD-SHAPED SLABS.
  2. MAXIMUM TRANSVERSE JOINT SPACING FOR PAVEMENT SHOULD EITHER BE 24 TO 30 TIMES THE SLAB THICKNESS OR 16R.
  3. LONGITUDINAL JOINT SPACING SHOULD NOT EXCEED 12.5R.
  4. KEEP SLABS AS SQUARE AS POSSIBLE. LONG NARROW SLABS TEND TO CRACK MORE THAN SQUARE ONES.
  5. ALL TRANSVERSE CONTRACTION JOINTS MUST BE CONTINUOUS THROUGH THE CURB AND HAVE A DEPTH EQUAL TO 1/2 THE PAVEMENT THICKNESS.
  6. IN ISOLATION JOINTS, THE FILLER MUST BE FULL DEPTH AND EXTEND THROUGH THE CURB.
  7. IF THERE IS NO CURB, LONGITUDINAL JOINTS SHOULD BE TIED WITH DEFORMED BARS.
  8. OFFSETS AT RADIUS POINTS SHOULD BE AT LEAST 1.5R WIDE. JOINT INTERSECTION ANGLES LESS THAN 60° SHOULD BE AVOIDED.
  9. MINOR ADJUSTMENTS IN JOINT LOCATION MADE BY SHIFTING OF SKEWING TO MEET INLETS AND MANHOLES WILL IMPROVE PAVEMENT PERFORMANCE.
  10. WHEN THE PAVEMENT AREA HAS DRAINAGE STRUCTURES, PLACE JOINTS TO MEET THE STRUCTURES IF POSSIBLE.

**TYPICAL JOINT LAYOUT**

N.T.S.

| Date      | Description | No. |
|-----------|-------------|-----|
| Revisions |             |     |



**LANGAN**

Langan Engineering and Environmental Services, LLC.  
9606 N. Mopac Expressway, Suite 110  
Austin, TX 78759

T: 737.289.7800 F: 737.289.7801 www.langan.com  
TBPE FIRM REG. #F-13709

Project

**CONNER TRACT BAND PARKING ADDITION**

LIBERTY HILL  
WILLAMSON COUNTY TEXAS

Drawing Title

**PAVING DETAILS**

|             |            |                |      |
|-------------|------------|----------------|------|
| Project No. | 531013327  | Drawing No.    | C7.2 |
| Date        | 12/05/2025 | Checked By     |      |
| Drawn By    | AM         | Sheet 18 of 18 |      |
| Checked By  | MH         |                |      |



SIGNATURE PAGE:

Dustin Akin  
Applicant's Signature

11/19/2025  
Date

THE STATE OF Texas §

County of Williamson §

BEFORE ME, the undersigned authority, on this day personally appeared Dustin Akin 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 19th day of November, 2025

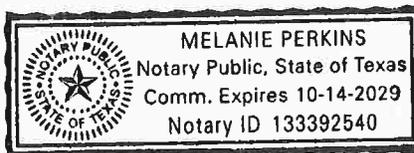
Melanie Perkins

NOTARY PUBLIC

Melanie Perkins

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 10-14-2029



# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Conner Tract

Regulated Entity Location: 30.683969 -97.954797

Name of Customer: Liberty Hill ISD

Contact Person: Dustin Akin

Phone: 512-260-5580

Customer Reference Number (if issued): CN 600788483

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<br>Plan: One Single Family Residential Dwelling       | Acres       | \$             |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Multiple Single Family Residential and Parks | Acres       | \$             |
| Water Pollution Abatement Plan, Contributing Zone<br>Plan: Non-residential                              | 19.98 Acres | \$ 6,500       |
| Sewage Collection System                                                                                | L.F.        | \$             |
| Lift Stations without sewer lines                                                                       | Acres       | \$             |
| Underground or Aboveground Storage Tank Facility                                                        | Tanks       | \$             |
| Piping System(s)(only)                                                                                  | Each        | \$             |
| Exception                                                                                               | Each        | \$             |
| Extension of Time                                                                                       | Each        | \$             |

Signature: 

Date: 12/05/2025

# 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***

| <b><i>Project</i></b>                                                                                                                             | <b><i>Project Area in Acres</i></b> | <b><i>Fee</i></b> |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|
| 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***

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

### ***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

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

### ***Exception Requests***

| <b><i>Project</i></b> | <b><i>Fee</i></b> |
|-----------------------|-------------------|
| Exception Request     | \$500             |

### ***Extension of Time Requests***

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



# TCEQ Core Data Form

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

## SECTION I: General Information

|                                                                                                                                                  |                                                                                       |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------|
| <b>1. Reason for Submission</b> (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                                                        |                                                         |
| <b>2. Customer Reference Number</b> (if issued)                                                                                                  | <a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a> | <b>3. Regulated Entity Reference Number</b> (if issued) |
| CN 600788483                                                                                                                                     |                                                                                       | RN                                                      |

## SECTION II: Customer Information

|                                                                                                                                                                                                                    |                                              |                                                                        |                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>4. General Customer Information</b>                                                                                                                                                                             |                                              | <b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy) |                                                                                |
| <input type="checkbox"/> New Customer                                                                                                                                                                              |                                              | <input checked="" 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          |                                                                                |
| <i>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).</i>                    |                                              |                                                                        |                                                                                |
| <b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)                                                                                                                             |                                              | <i>If new Customer, enter previous Customer below:</i>                 |                                                                                |
| Liberty Hill Independent School District                                                                                                                                                                           |                                              |                                                                        |                                                                                |
| <b>7. TX SOS/CPA Filing Number</b>                                                                                                                                                                                 | <b>8. TX State Tax ID</b> (11 digits)        | <b>9. Federal Tax ID</b> (9 digits)                                    | <b>10. DUNS Number</b> (if applicable)                                         |
|                                                                                                                                                                                                                    |                                              |                                                                        |                                                                                |
| <b>11. Type of Customer:</b>                                                                                                                                                                                       | <input type="checkbox"/> Corporation         | <input type="checkbox"/> Individual                                    | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input checked="" type="checkbox"/> Other | <input type="checkbox"/> Sole Proprietorship | <input checked="" type="checkbox"/> Other: ISD                         |                                                                                |
| <b>12. Number of Employees</b>                                                                                                                                                                                     |                                              | <b>13. Independently Owned and Operated?</b>                           |                                                                                |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher                                 |                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    |                                                                                |
| <b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following                                                                       |                                              |                                                                        |                                                                                |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:                                                              |                                              |                                                                        |                                                                                |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant                                                                               |                                              |                                                                        |                                                                                |
| <b>15. Mailing Address:</b>                                                                                                                                                                                        | 301 Forrest Street                           |                                                                        |                                                                                |
|                                                                                                                                                                                                                    | City                                         | Liberty Hill                                                           | State TX                                                                       |
|                                                                                                                                                                                                                    | ZIP                                          | 78642                                                                  | ZIP + 4                                                                        |
| <b>16. Country Mailing Information</b> (if outside USA)                                                                                                                                                            |                                              | <b>17. E-Mail Address</b> (if applicable)                              |                                                                                |
|                                                                                                                                                                                                                    |                                              |                                                                        |                                                                                |
| <b>18. Telephone Number</b>                                                                                                                                                                                        | <b>19. Extension or Code</b>                 | <b>20. Fax Number</b> (if applicable)                                  |                                                                                |
| ( 512 ) 260-5580                                                                                                                                                                                                   |                                              | ( 512 ) 260-5581                                                       |                                                                                |

## SECTION III: Regulated Entity Information

|                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected, a new permit application is also required.)                                               |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information |
| <i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>                 |
| <b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)                                                                             |
| Liberty Hill ISD Conner Tract                                                                                                                                                     |

|                                                                            |             |              |              |    |            |       |                |  |
|----------------------------------------------------------------------------|-------------|--------------|--------------|----|------------|-------|----------------|--|
| <b>23. Street Address of the Regulated Entity:</b><br><i>(No PO Boxes)</i> | 16750 TX-29 |              |              |    |            |       |                |  |
|                                                                            | <b>City</b> | Liberty Hill | <b>State</b> | TX | <b>ZIP</b> | 78642 | <b>ZIP + 4</b> |  |
| <b>24. County</b>                                                          | Williamson  |              |              |    |            |       |                |  |

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

|                                                                                                                                                                                                                            |                                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------|--------------------------------------------------|----------------------------------------------|--------------------------------------|----------------------------------------------------|----------------|---------|-------------------------|
| <b>25. Description to Physical Location:</b>                                                                                                                                                                               |                                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
| <b>26. Nearest City</b>                                                                                                                                                                                                    |                                             |              |                                                  |                                              | <b>State</b>                         |                                                    |                |         | <b>Nearest ZIP Code</b> |
| <i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i> |                                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
| <b>27. Latitude (N) In Decimal:</b>                                                                                                                                                                                        | 30.683969                                   |              |                                                  |                                              | <b>28. Longitude (W) In Decimal:</b> | -97.954797                                         |                |         |                         |
| Degrees                                                                                                                                                                                                                    | Minutes                                     |              | Seconds                                          |                                              | Degrees                              | Minutes                                            |                | Seconds |                         |
| 30                                                                                                                                                                                                                         | 41                                          |              | 2.3                                              |                                              | -97                                  | 57                                                 |                | 17.3    |                         |
| <b>29. Primary SIC Code</b><br>(4 digits)                                                                                                                                                                                  | <b>30. Secondary SIC Code</b><br>(4 digits) |              | <b>31. Primary NAICS Code</b><br>(5 or 6 digits) |                                              |                                      | <b>32. Secondary NAICS Code</b><br>(5 or 6 digits) |                |         |                         |
| 8211                                                                                                                                                                                                                       |                                             |              | 611110                                           |                                              |                                      |                                                    |                |         |                         |
| <b>33. What is the Primary Business of this entity?</b> <i>(Do not repeat the SIC or NAICS description.)</i>                                                                                                               |                                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
|                                                                                                                                                                                                                            |                                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
| <b>34. Mailing Address:</b>                                                                                                                                                                                                | 301 Forrest St.                             |              |                                                  |                                              |                                      |                                                    |                |         |                         |
|                                                                                                                                                                                                                            | <b>City</b>                                 | Liberty Hill | <b>State</b>                                     | TX                                           | <b>ZIP</b>                           | 78642                                              | <b>ZIP + 4</b> |         |                         |
| <b>35. E-Mail Address:</b>                                                                                                                                                                                                 | dakin@libertyhill.txed.net                  |              |                                                  |                                              |                                      |                                                    |                |         |                         |
| <b>36. Telephone Number</b>                                                                                                                                                                                                | <b>37. Extension or Code</b>                |              |                                                  | <b>38. Fax Number</b> <i>(if applicable)</i> |                                      |                                                    |                |         |                         |
| ( 512 ) 260-5580                                                                                                                                                                                                           |                                             |              |                                                  | ( 512 ) 260-5581                             |                                      |                                                    |                |         |                         |

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

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

## **SECTION IV: Preparer Information**

|                             |                      |                       |                           |
|-----------------------------|----------------------|-----------------------|---------------------------|
| <b>40. Name:</b>            | Jack Garner, PE      | <b>41. Title:</b>     | Consulting Engineer       |
| <b>42. Telephone Number</b> | <b>43. Ext./Code</b> | <b>44. Fax Number</b> | <b>45. E-Mail Address</b> |
| ( 737 ) 289-7810            |                      | ( ) -                 | jgarner@langan.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.

|                         |                                                                                     |                   |                     |
|-------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------|
| <b>Company:</b>         | Langan Engineering                                                                  | <b>Job Title:</b> | Associate Principal |
| <b>Name (In Print):</b> | Jack Garner, PE                                                                     | <b>Phone:</b>     | ( 737 ) 289- 7810   |
| <b>Signature:</b>       |  | <b>Date:</b>      | 12/5/2025           |