

CONTRIBUTING ZONE PLAN

for

AMIFAST INDUSTRIAL PARK, LOTS 5 and 7

138 Bevers Road

in

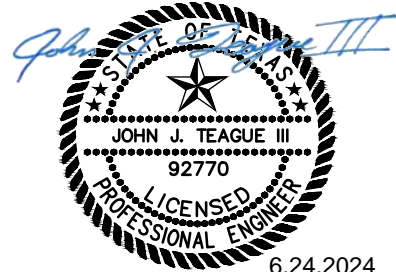
Liberty Hill, Williamson County, Texas

Prepared for

JBCM Land, LLC
138 Bevers Road
Liberty Hill, Texas 78642

Prepared by

Eckermann Engineering, Inc.
921 Main Street
Liberty Hill, TX 78642



Job No. 23039

6.24.2024

June 24, 2024



TBPELS FIRM No. F-10496

Contributing Zone Plan Checklist

- **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- **Contributing Zone Plan Application (TCEQ-10257)**
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 - Attachment D - Factors Affecting Surface Water Quality
 - Attachment E - Volume and Character of Stormwater
 - Attachment F - Suitability Letter from Authorized Agent (if OSSF is proposed)
 - Attachment G - Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)
 - Attachment H - AST Containment Structure Drawings (if AST is proposed)
 - Attachment I - 20% or Less Impervious Cover Declaration (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)
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 - Attachment L - BMPs for Surface Streams
 - Attachment M - Construction Plans
 - Attachment N - Inspection, Maintenance, Repair and Retrofit Plan
 - Attachment O - Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs
 - Attachment P - Measures for Minimizing Surface Stream Contamination
- **Storm Water Pollution Prevention Plan (SWPPP)**
 - OR-**
- **Temporary Stormwater Section (TCEQ-0602)**
 - Attachment A - Spill Response Actions
 - Attachment B - Potential Sources of Contamination
 - Attachment C - Sequence of Major Activities
 - Attachment D - Temporary Best Management Practices and Measures
 - Attachment E - Request to Temporarily Seal a Feature, if sealing a feature
 - Attachment F - Structural Practices
 - Attachment G - Drainage Area Map
 - Attachment H - Temporary Sediment Pond(s) Plans and Calculations
 - Attachment I - Inspection and Maintenance for BMPs
 - Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices
- **Copy of Notice of Intent (NOI)**
- **Agent Authorization Form (TCEQ-0599), if application submitted by agent**
- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the "Texas Commission on Environmental Quality"**
- **Core Data Form (TCEQ-10400)**

**EDWARDS AQUIFER APPLICATION COVER PAGE
(TCEQ-20705)**

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Amifast Industrial Park, Lots 5 and 7					2. Regulated Entity No.:				
3. Customer Name: JBCM Land, LLC					4. Customer No.:				
5. Project Type: (Please circle/check one)	New		Modification		Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential		Non-residential			8. Site (acres):		5.364	
9. Application Fee:	\$5,000		10. Permanent BMP(s):			Batch Detention Basin			
11. SCS (Linear Ft.):	None		12. AST/UST (No. Tanks):			None			
13. County:	Williamson		14. Watershed:			South Fork San Gabriel River			

Application Distribution

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

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

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

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

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

John J. Teague III, PE

Print Name of Customer/Authorized Agent

John J. Teague III

06/03/2024

Signature of Customer/Authorized Agent

Date

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

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

**CONTRIBUTING ZONE PLAN APPLICATION
(TCEQ-10257)**

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: JBCM Land, LLC

Date: 04/17/2024

Signature of Customer/Agent:



Regulated Entity Name: Amifast Industrial Park Lots 5 and 7

Project Information

1. County: Williamson
2. Stream Basin: San Gabriel River
3. Groundwater Conservation District (if applicable): N/A
4. Customer (Applicant):

Contact Person: Jack Bevers

Entity: JBCM Land, LLC

Mailing Address: 138 Bevers Road

City, State: Liberty Hill, Texas

Telephone: 512-778-6577

Email Address: jack.bevers@afinitas.com

Zip: 78642

Fax: N/A

5. Agent/Representative (If any):

Contact Person: John J. Teague, PE

Entity: Eckermann Engineering, Inc.

Mailing Address: 921 Main St.

City, State: Liberty Hill, Texas

Zip: 78642

Telephone: 512-820-4027

Fax: N/A

Email Address: john@eckermannengineering.com

6. Project Location:

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

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.

138 Bevers Road, at end of road on northwest side of cul-de-sac

8. ☒ **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000") is attached. The map(s) clearly show:

- ☒ Project site boundaries.
- ☒ USGS Quadrangle Name(s).

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

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

11. Existing project site conditions are noted below:

- ☒ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site

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

12. The type of project is:

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

13. Total project area (size of site): 5.364 Acres

Total disturbed area: 2.96 Acres

14. Estimated projected population: N/A

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	37183	÷ 43,560 =	0.854
Parking	2418	÷ 43,560 =	0.056
Other paved surfaces	25739	÷ 43,560 =	0.591
Total Impervious Cover	65340	÷ 43,560 =	1.50

Total Impervious Cover $1.50 \div$ Total Acreage $5.364 \times 100 = 27.96\%$ Impervious Cover

16. ☒ **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

☒ N/A

18. Type of project:

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

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

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: _____

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

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

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

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

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

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

Pavement area _____ acres \div R.O.W. area _____ acres $\times 100 = \text{_____ \%}$ impervious cover.

22. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☒ N/A

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

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

☐ Existing.

☐ Proposed.

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

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

Total x 1.5 = _____ Gallons

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

one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

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

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

Table 3 - Secondary Containment

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

Total: _____ Gallons

30. Piping:

- ☐ All piping, hoses, and dispensers will be located inside the containment structure.
- ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.
- ☐ The piping will be aboveground
- ☐ The piping will be underground

31. ☐ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: _____.

32. ☐ **Attachment H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is attached that shows the following:

- ☐ Interior dimensions (length, width, depth and wall and floor thickness).
- ☐ Internal drainage to a point convenient for the collection of any spillage.
- ☐ Tanks clearly labeled
- ☐ Piping clearly labeled
- ☐ Dispenser clearly labeled

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

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

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

Site Plan Requirements

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 30'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- ☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): _____.
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,

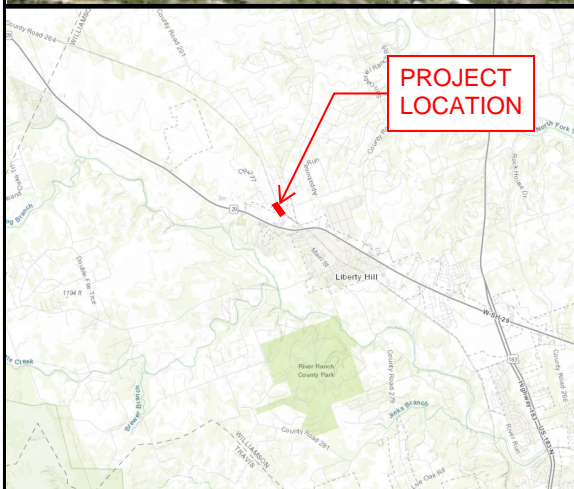
or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

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.

TCEQ-10257
ATTACHMENTS A-P

4/25/2023



138 BEVERS ROAD
WAREHOUSE EXPANSION
Williamson County, Texas
CZP - Attachment A
Road Map

— PROJECT LOCATION



0 200 400 800

E ECKERMANN
ENGINEERING, INC.

921 MAIN STREET
LIBERTY HILL, TEXAS 78642
PHONE: 512-960-1098
TBPE FIRM NO. F-10496



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



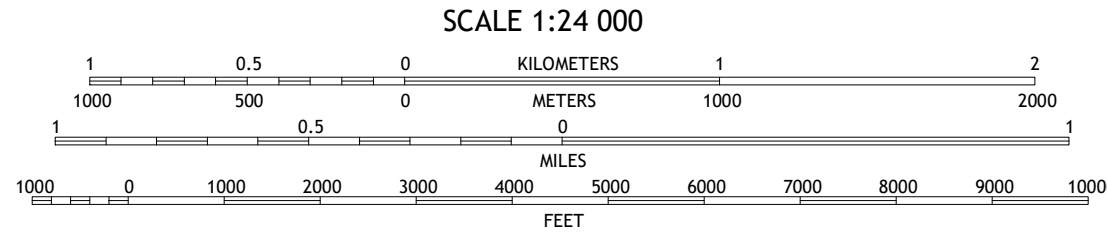
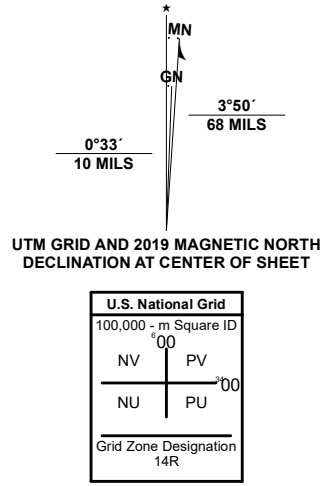
LIBERTY HILL QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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 - 2019
Names.....GNIS, 2008 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2020
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

- 1 Joppa
- 2 Mahomet
- 3 Florence
- 4 Bertram
- 5 Leander NE
- 6 Travis Peak
- 7 Nameless
- 8 Leander

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

LIBERTY HILL, TX
2022



ATTACHMENT C – PROJECT NARRATIVE

The project site is located at the north end of Bevers Road approximately 1,200 feet from the intersection with State Highway 29 in the City of Liberty Hill, Williamson County, Texas. The site is comprised of Lots 5 and 7 of the Amifast Industrial Park subdivision. Refer to the Road Map in Attachment A for the site location. The subject site includes 5.364 acres and is partially developed with two existing warehouse buildings and associated truck court and parking. The remaining area of Lots 5 and 7 is undeveloped with native grass and tree cover. An area of approximately 2.96 acres is proposed to be disturbed within the site. No portion of the site lies within the FEMA 100-year floodplain per map number 48491C0240F dated December 20, 2019. The proposed development is located fully within the Edwards Aquifer Contributing Zone.

The proposed improvements for the site include construction of a batch detention pond. The batch detention pond design is outlined in the plans within Attachment M of TCEQ-10257 herein. Offsite storm water runoff enters the project site from 0.31 acres of the railroad right-of-way located to the north, upstream of the project site. Any offsite runoff entering an area of disturbance within the limits of construction on the site will flow through proposed temporary BMPs such as silt fence, inlet protection and rock berms. Permanent vegetation will be established in all disturbed areas upon completion of grading and construction activities.

The total proposed development which contains the existing building and pavement will include 1.50 acres of impervious cover. The permanent BMP utilized to mitigate for the proposed impervious cover is the above-mentioned batch detention pond.

The project will consist of the two existing buildings and one proposed new building to be used for warehouse/storage space, which will include associated parking, drives and sidewalks. The majority of proposed improvements will be located on Lot 5 with a portion of the access drive and fire lane to be located within a joint-use access easement on Lot 7. Access to the property will be provided from Bevers Road to the east.

ATTACHMENT D – FACTORS AFFECTING SURFACE WATER QUALITY

Potential sources of sediment to stormwater runoff that could affect water quality during construction may include:

- Oil and grease from runoff pollutants associated with paving operations
- Asphalt emulsion from streets just after construction is complete
- Construction equipment pollutants including hydraulic fluid, machine oil, and diesel
- Temporarily non-stabilized soils as are commonly present during construction
- Heavy metals from concrete washout and waste, material delivery and storage, contaminated spills, etc.
- pH (acids & bases) from concrete washout and waste, structure construction, painting products, cleaning products, material delivery and storage, hazardous waste, etc.
- Trash, debris and solids from clearing, grading, excavations, etc.

Post construction sources of sediment to stormwater runoff that could affect water quality include:

- Use of pesticides and fertilizers as are commonly used for building and landscape maintenance
- Trash and debris from the public utilizing the businesses
- Conveyance of suspended solids across parking and drives and through storm drains as is commonly present for commercial projects, for example:
 - Dirt, debris and other sediments brought into the site on vehicles
 - Oil or other fluid discharge from vehicles

ATTACHMENT E – VOLUME AND CHARACTER OF STORMWATER

The project site is located on a partially developed 5.364-acre subdivided property which generally drains from northwest to southeast. The site receives a minor amount off-site stormwater flow from 0.31 acres of the railroad right-of-way located to the north of the project site. Existing drainage patterns convey the onsite flows via a combination of sheet flow, channelized flow and piped flow into an existing detention pond located on the east end of the property. Runoff produced during proposed conditions will sheet flow and be collected in an expanded storm drainage system consisting of a new channel and storm sewer and piped to a new batch detention pond to be located in the area of the existing detention pond.

Stormwater analysis for the site utilizes TR-55 Method and the City of Round Rock Design and Construction Standards.

Pre-construction:

- Quantity – 19.53 cfs (100-Year Event)
- Quality – The pre-construction condition of the site contains one developed commercial lot and one undeveloped lot with native grasses with tree cover. The developed lot contains two existing buildings and associated pavement which provides parking and a truck court for the existing buildings. Runoff from the site includes natural sediment from the undeveloped lot during heavy storm events as well as runoff from the developed lot containing suspended solids and vehicle oil/fluid discharges from the parking and drives which drains through storm drains and channels to a detention basin which was previously constructed with the original development.
- Area – 2.33 acres
- Impervious Cover – 1.06 acres
- Weighted Runoff coefficient - 84

Post-construction:

- Quantity – 19.29 cfs (100-Year Event)
- Quality – The post-construction condition of the site will consist of further development of Lot 5 with three total commercial buildings and associated paving and development of a portion of Lot 7 containing an access drive and fire lane. Factors affecting the stormwater quality of the site are increased with the additional impervious cover associated with the development on both Lots 5 and 7. Stormwater from the two developed lots will be conveyed to the proposed batch detention pond for water quality and detention mitigation, to maintain discharge quantity and quality from pre-construction conditions.
- Area – 2.90 acres
- Impervious Cover – 1.50 acres
- Weighted Runoff coefficient - 91.3

ATTACHMENT F – SUITABILITY LETTER FROM AUTHORIZED AGENT

No new OSSF/Septic Tank is proposed with this project. A copy of the original OSSF permit #2004-3511 for the existing OSSF has been included in the following pages.



2/3/05 09:37 AM

Williamson County and Cities Health District NOTICE OF APPROVAL TO OPERATE AN OSSF

THIS IS TO CERTIFY that the on site sewage facility located at:

OSSF #: **2004 - 3511****138 BEVERS ROAD, Liberty Hill TX 78642**

Grid:

Amifast Industrial Park

Block:

Lot: **5**☐ Routine Maint

meets or exceeds the basic requirements established by the District.

LICENSE TO OPERATE this facility is hereby granted to the owner. This license simply grants permission to operate this facility; it does not guarantee its successful operation. Routine maintenance and proper functioning are the sole responsibility of the owner. KEEP THIS LICENSE with important papers. You may need it when selling your house or if a malfunction occurs.

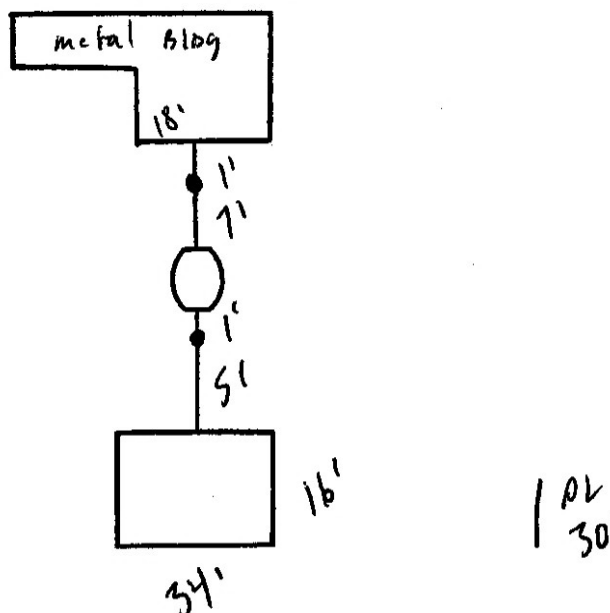
THIS LICENSE REMAINS in effect until such time as there is evidence that this facility is not operating properly and may constitute a threat to the health of the people of Williamson County.

Tank Type: Concrete Oval

Valve:

Max Flow: 80 gal/dayTank Size: 750 gallonsDrainfield Size: 408 sq. ft.Installed By: GENE RAMPYEngineered By: Jason Clark, R.S. 3616

DRAWING OF SYSTEM (Not to scale):

OS 8984DATE OF FINAL
INSPECTION:

1/27/05

ISSUED THIS DATE:

2/8/05

INSPECTOR

DIRECTOR, ENVIRONMENTAL SERVICE

OS 7173

B-10

PIPE & GRAVEL 1/26/05 FINAL 1/27/05
Am X

OSSF# 2004-3511

WILLIAMSON COUNTY AND CITIES HEALTH DISTRICT
ALTERNATIVE SEPTIC SYSTEM INSPECTION - FIELD NOTES

Location: 138 Bevers Rd. 799-5190

No. of Bedrooms: 5 Installer: G. Rumpy # 1690

I. TANK TYPE:

1. Concrete: ☒ Type: A. Box: ☐ B. Oval: ☒ C. Pump Tank: ☐
2. Gallon Capacity: 750 210
3. Gallon Capacity:
4. Other:

II. SOIL DISPOSAL FIELDS:

1. Type: A. Trenches: ☐ B. Beds: ☒ C. Evapotranspiration: ☐
2. Setbacks: A. Tank to well B. Absorption Field to well C. Field to property line 30'
3. Dimensions of Fields: A. Field #1 16 ' x 34 ' = 544 Ft²
B. Field #2 ' x ' = Ft²
C. Depth of Fields 18-24" " Total Ft²
4. Gravel: A. Crushed ☒ B. Washed Aggregate C. Amount 24 Yards estimated
5. Sand on Site: Amount Yards estimated, Sandy Loam existing Yards estimated.
6. Type of Valve

III. GENERAL CONDITIONS AND WORKMANSHIP OPEN PIT: Date: 1-26-05 Inspector: SJS

	Yes	No
1. Solid lines from house glued in place. Schedule 40 equivalent	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All needed clean-outs in place	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Schedule 40 pipe from tank to valve and beds	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Holes around inlet and outlet grouted or sealed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Tank is watertight (filled to flow line)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. <u>TS</u> installed in tank with manufactured effluent filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Grade of bed bottom 12" lower than tank flow line	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bed or trench bottom essentially level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Evident of seeps or shallow groundwater	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
10. Gravel 12" deep throughout field	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Perforated pipe generally level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Pipe in field covered with gravel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Backfill material and gravel cover on site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Cross pipes in place	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Soil conditions dry during installation	<input checked="" type="checkbox"/>	<input type="checkbox"/>

OS 8984
Approved

LANDSCAPE/FINAL INSPECTION: Date: 1-27-05 Inspector: SJS

	Yes	No
1. Clean-outs installed in the fields	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. The fields are mounded 4" to 6"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Berm in place (if needed)	<input type="checkbox"/>	<input type="checkbox"/>

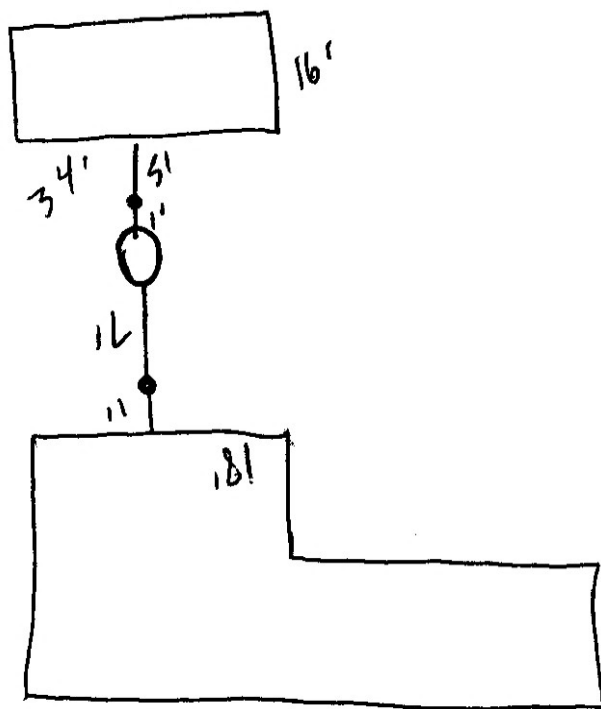
Approved

FINAL SYSTEM APPROVAL: Yes

OS 8984

REMARKS:

PL 30'



WCCHD CHECK LIST FOR PROFESSIONAL DESIGNS - ON SITE SEWAGE FACILITIES

DATE: 1-15-05 OWNER: Jack Bowers OSSF #: 04-3511
 LOCATION: 138 Bowers Road
 DESIGNER: Jason Clark MS SITE EVALUATOR: Jason Clark MS

Type of System: Commercial Commercial?: Yes
 Wastewater Design Flow (Gal/Day): 80 Bedrooms on Permit: 0 Sq Ft: 15,000
 Soil/Surface Application Rate: 0.20 Bedrooms on Design: 0 Sq Ft:
5 employees but sized to a 20 Equivalent Bedrooms:

SITE EVALUATION (Most restrictive conditions)

Class of Native Soil: III SLR required:
 Restrictive layers (Rock, Clay, etc...): bottom → Depth: 55" Flood Plain addressed: shown
 Evidence of Groundwater: no → Depth: EARZ Addressed: shown

NOT APPROVED by Field Inspector: SLR
 APPROVED by Field Inspector: 12-16-04

TREATMENT PROCESS

Septic / Trash Tank (gallons): 750 Tank specifications: 21C 750
 Filtration / Model: -

DISPOSAL PROCESS

Drain Field (Linear Feet): - Drain Field (Square Feet): 408
 Trench or Bed: bed Diversion Valve: -
 Depth Min/Max (inches): 18" - 36" Width Min/Max (inches): 1
 Gravel Size & Depth: 1.75" - 2.0 inch Backfill Class/Height above grade: 4"-6" II on III
 Bed Construction Notes: 12x34, 18"-36", 4"-6" coarse II on III
 Leaching Chamber Specs: -
 Pipe Specs: SDR 35

CONSTRUCTION PLAN (SITE PLAN/CROSS SECTIONS)

Contour lines/slope - esp. in disposal area: shown Well locations shown: - Water line shown: shown
 Profile Holes shown and near drain field: shown Property lines shown: shown Setbacks shown/stated: shown
 Cross section of tanks: shown Cross Sections Labeled: shown
 Landscape/Vegetation Notes: seed, sod or mulch

CONTRACTURAL / ADMINISTRATIVE

Signed/Sealed/Dated by designer: Jason Clark MS Fees Due:

ADDITIONAL NOTES:

DESIGN APPROVED:

☒ YES ☐ NO

Jason Clark 1-15-05
 Inspector / Date



Williamson County and Cities Health District

303 Main St.
Georgetown TX 78626-
(512) 930-4390

PERMIT TO CONSTRUCT

**** VALID FOR ONE YEAR FROM DATE OF PURCHASE ****

Date: 1/20/05

M-1/20/05

Permit #: **2004 - 3511**

Date purchased: **10/6/04**

Expiration date: **10/6/05**

Owner's Name: **BEVERS, JACK & MORAN, WILLIAM**

138 BEVERS ROAD, Liberty Hill TX 78642

Amifast Industrial ParkI

Block: Lot: **5**

AUTHORIZATION IS HEREBY GIVEN TO CONSTRUCT AN ON-SITE SEWAGE FACILITY ON THE ABOVE DESCRIBED PROPERTY WITH THE FOLLOWING SPECIFICATIONS:

Tank Capacity: 750 gallons

Pump tank reserve capacity: 0 gallons

Design Flow: 80 gpd

Drainfield: Conventional

Drainfield / Sprayfield Size: 408 sq. ft.

ALTERNATIVE SYSTEM REQUIREMENTS:

Designed By: Jason Clark, R.S. 3616

Refer to the designer's plans for system specifications.

Plan Date: 12/30/04

Date of Revision:

Contact Health Department and designer for required inspections.

NOTE The on-site sewage facility construction must meet all TNRCC Regulations and this County's Rules for On-Site Sewage Facilities. If unforeseen and/or adverse conditions are encountered (including, but not limited to excessive rock, seepage, or high water table) stop construction and contract the Licensing Authority. A revised construction permit may be issued.

The approval of this OSSF design does not include water softeners or water treatment equipment and appliances - reference Chapter 285.37.


Signed

1-19-05
Date

*** THIS PERMIT IS NON-TRANSFERABLE.**



Williamson County and Cities Health District

303 Main St.
Georgetown TX 78626-
(512) 930-4390

OSSF #: **2004 - 3511**

Grid:

NEW

APPLICATION FOR A LICENSE TO OPERATE AN ON-SITE SEWAGE FACILITY

**** VALID FOR ONE YEAR FROM DATE OF PURCHASE ****

Date: 10/6/04 Commercial 5 Employees 15000 Sq Ft ☐ Well on site ☒ Public Water
Legal: Amifast Industrial Park ☒ Engineered
Block: Lot: 5 Lot Size: 2.246 AC ☐ Routine Maint
Location: 138 BEVERS ROAD, Liberty Hill TX 78642
Owner: BEVERS, JACK & MORAN, WILLIAM Phone: () 515-0282
Mailing address: P.O. BOX 1900, Liberty Hill TX 78642
Fee: \$585.00 Payment: CK 1001
Certificate of Compliance:
Fee: \$25.00 CK 1001

Total payment: **\$610.00**

Warning:

The flood hazard boundary maps and other flood data used by the County in evaluating flood hazards to proposed developments are considered reasonable and accurate for regulatory purposes. Flood Plain determinations are based solely on the property owner's indication of the proposed home-site. On occasion greater floods can and will occur and flood heights may be increased by man-made and natural causes. The County cannot guarantee the property will not flood. Exempting the property owner from the Flood Plain management Regulations does not create any liability on the part of the county or any officer or employee of the County in the event that flooding and/or flood damage does occur. Ultimate responsibility of locating the home/structure outside of the flood plain rests with the property owner. The County recommends the property owner contact a surveyor prior to construction for precise determination.

I acknowledge the above warning. I certify I am the property owner / designated agent, and the above statements are true and correct.

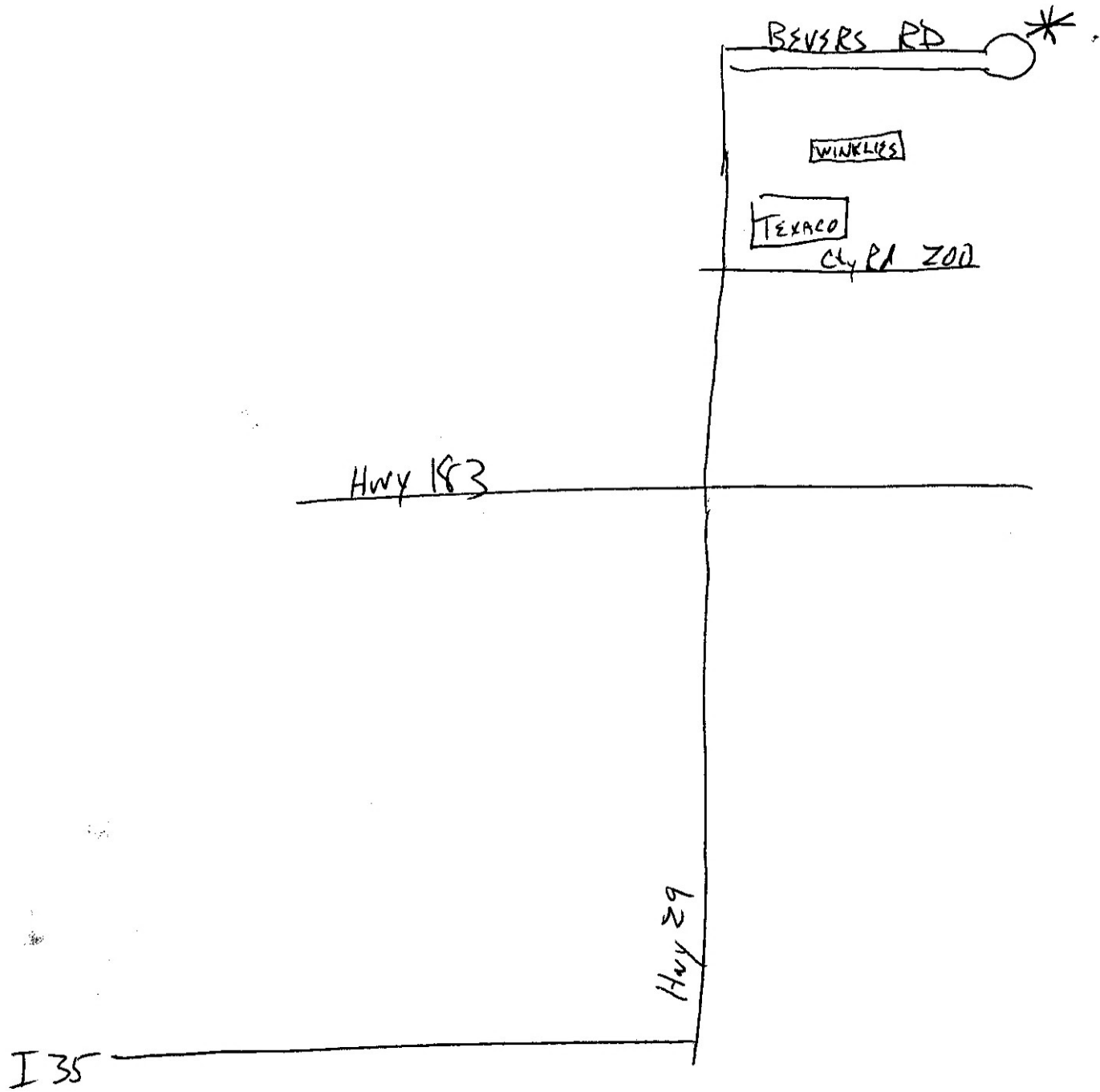
Jack B.
Signature

10-6-04
Date

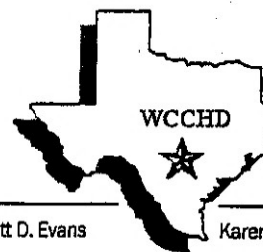
FLOOD PLAIN STATUS = Exempt

Hannie Kaut
Environmental Services Official

10-6-04
Date RGK



Williamson County & Cities Health District



Board of Health: Mary Faith Sterk, Chair • Margaret R. Fink • Katherine M. Galloway • Tim Mikeska • Lettie A. Lee • Scott D. Evans

Karen Wilson, Director

12-17-04 (Date)

your public health department

m-12/20/04

Jack Bevers (Owner Name)

PO Box 1900 (Address)

Liberty Hill, TX 78642

RE: ON-SITE SEWAGE FACILITY (OSSF) PERMIT #: 04-3511

LOCATION: 138 Bevers RD

Site Evaluator: Jason Clark RS

SE received (date): 11-17-04

To Whom It May Concern:

A site evaluation was received for this OSSF permit. The site evaluation (IS) IS NOT approved (circle one).

Please submit the following:

Soil Analysis

- ☐ Profile holes must be in area of OSSF field
- ☐ Holes at least 2' deeper than the proposed drain field
- ☐ State horizon depths in inches
- ☐ Provide gravel analysis
- ☐ Provide textural class of soil for each horizon
- ☐ Provide coloration for each horizon

Groundwater

- ☐ State whether or not there is EVIDENCE of groundwater and at what depth in inches. Evidence includes streaking, mottling, redox features, etc...
- ☐ If water is present, state the depth in inches and whether the water is clear or muddy

Topography

- ☐ Indicate slope and direction or contours
- ☐ Show drainage ways, easements, creeks, ponds, etc...
- ☐ Show breaks in grade
- ☐ Note surface pooling

Vegetation

- ☐ Note what kinds of vegetation exist in the area of the drain field

Flood Hazard

- ☐ Indicate if OSSF is in Flood Plain or Flood Way
- ☐ Show Flood Plain or Flood Way on site diagram

Edwards Aquifer Recharge Zone (EARZ)

- ☐ Indicate if site is in the EARZ
- ☐ Certify that no EARZ recharge features are within 150' of the OSSF

Further comments: Please submit design for review.

If you have any questions concerning this matter, please contact this office.

Sincerely,

Steve Strong
Steve Strong

(Signed)

(Printed)

Copy to: Jason Clark RS

SITE EVALUATION VERIFICATION SHEET

THE PROPERTY OWNER IS RESPONSIBLE FOR THE FINAL OSSF DESIGN. DESIGNS MUST MEET MINIMUM REQUIREMENTS. THE PROPER PERFORMANCE OF AN ON-SITE SEWAGE FACILITY CANNOT BE GUARANTEED. PROPERTY OWNERS ARE ENCOURAGED TO OBTAIN A DESIGN FROM A PROFESSIONAL DESIGNER. PROPER LANDSCAPE AND DRAINAGE DIVERSION IS THE RESPONSIBILITY OF THE OWNER.

TYPE OF OSSF ALLOWED (Based on Approved Site Evaluation):

- ☒ Absorption beds/trenches *
- or ☐ Evapotranspiration beds *
- or ☐ Alternative System needed. Contact a Professional Engineer or Registered Sanitarian.

*(Standard absorption beds or ET beds may be designed by an Engineer, Sanitarian, Installer II or the homeowner.)

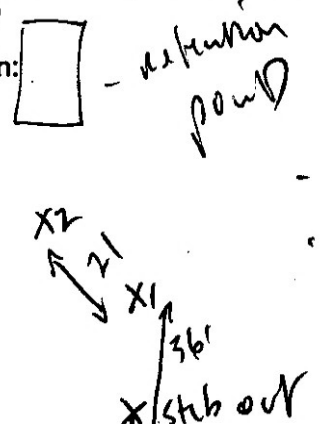
MINIMUM SETBACK DISTANCES: TANK – 5 ft. from house, 5 ft. from property line, 50 ft. from water well. FIELD – 5 ft. from house, 5 ft. from property line, 100 ft. from water well, 10 ft. from water line, 75 ft. from body of water.

OTHER: _____

ALL VARIANCE REQUESTS MUST BE APPROVED PRIOR TO INSPECTION.

PIPE & GRAVEL: Tank connected to house and valve; cleanout between structure and tank; fittings in place; full of clean water to flow line. Schedule 40 equivalent, 1/8" per foot fall from house to tank; 1" per 100' from tank to valve. Filter required at outlet; cleanout between tank & valve within 1' of tank outlet. Fields/trenches excavated, level, 12" lower than tank flow line; 18"-36" deep. Gravel & pipe in place; voids left for inspection. Distribution pipes must be level with 6" of gravel below pipes. Total gravel required is 12". Monitor wells at far ends of fields. Filter fabric, all sand & sandy loam **MUST** be on site.

LANDSCAPE INSPECTION: Properly backfilled with sand & sandy loam. Area over fields/trenches **MUST** be mounded 4" or more. Grass must be planted over this area.

EVALUATION OF PROFILE HOLE #1		WCCHD USE	
DEPTH	SOIL DESCRIPTION	APPROVAL OF SITE EVALUATION <input checked="" type="radio"/> YES / NO	
10"	<u>Brown III</u> <u>Tan / yellow III</u> 10" 57"	(IF YES, PLEASE SUBMIT DESIGN ACCORDING TO TYPE OF OSSF ALLOWED) Explanation:  - absorption pond - no surface much - no curb of 1"	
20"			
30"			
40"			
50"			
60"			
70"			
EVALUATION OF PROFILE HOLE #2		NO CONSTRUCTION MAY BEGIN UNTIL A DESIGN IS APPROVED BY THE WCCHD. IF GROUNDWATER IS ENCOUNTERED, STOP CONSTRUCTION AND CONTACT OUR OFFICE. INSPECTOR <u>SLS</u> DATE <u>12-16-04</u>	
DEPTH	SOIL DESCRIPTION		
10"	<u>Brown III</u> <u>Tan / yellow III</u> 12" 55"		
20"			
30"			
40"			
50"			
60"			
70"			

SITE EVALUATION VERIFICATION SHEET

THE PROPERTY OWNER IS RESPONSIBLE FOR THE FINAL OSSF DESIGN. DESIGNS MUST MEET MINIMUM REQUIREMENTS. THE PROPER PERFORMANCE OF AN ON-SITE SEWAGE FACILITY CANNOT BE GUARANTEED. PROPERTY OWNERS ARE ENCOURAGED TO OBTAIN A DESIGN FROM A PROFESSIONAL DESIGNER. PROPER LANDSCAPE AND DRAINAGE DIVERSION IS THE RESPONSIBILITY OF THE OWNER.

TYPE OF OSSF ALLOWED (Based on Approved Site Evaluation):

____ Absorption beds/trenches *

or ____ Evapotranspiration beds *

or ____ Alternative System needed. Contact a Professional Engineer or Registered Sanitarian.

*(Standard absorption beds or ET beds may be designed by an Engineer, Sanitarian, Installer II or the homeowner.)

MINIMUM SETBACK DISTANCES: TANK – 5 ft. from house, 5 ft. from property line, 50 ft. from water well. FIELD – 5 ft. from house, 5 ft. from property line, 100 ft. from water well, 10 ft. from water line, 75 ft. from body of water.

OTHER: _____

ALL VARIANCE REQUESTS MUST BE APPROVED PRIOR TO INSPECTION.

PIPE & GRAVEL: Tank connected to house and valve; cleanout between structure and tank; fittings in place; full of clean water to flow line. Schedule 40 equivalent, 1/8" per foot fall from house to tank; 1" per 100' from tank to valve. Filter required at outlet; cleanout between tank & valve within 1' of tank outlet. Fields/trenches excavated, level, 12" lower than tank flow line; 18"-36" deep. Gravel & pipe in place; voids left for inspection. Distribution pipes must be level with 6" of gravel below pipes. Total gravel required is 12". Monitor wells at far ends of fields. Filter fabric, all sand & sandy loam **MUST** be on site.

LANDSCAPE INSPECTION: Properly backfilled with sand & sandy loam. Area over fields/trenches **MUST** be mounded 4" or more. Grass must be planted over this area.

EVALUATION OF PROFILE HOLE #1

DEPTH	SOIL DESCRIPTION
10"	
20"	
30"	
40"	
50"	
60"	
70"	

EVALUATION OF PROFILE HOLE #2

DEPTH	SOIL DESCRIPTION
10"	
20"	
30"	
40"	
50"	
60"	
70"	

WCCHD USE

APPROVAL OF SITE EVALUATION: YES NO

(IF YES, PLEASE SUBMIT DESIGN ACCORDING TO TYPE OF OSSF ALLOWED)

Explanation:

Too muddy! 11-19-04 SLS

NO CONSTRUCTION MAY BEGIN UNTIL A DESIGN IS APPROVED BY THE WCCHD. IF GROUNDWATER IS ENCOUNTERED, STOP CONSTRUCTION AND CONTACT OUR OFFICE.

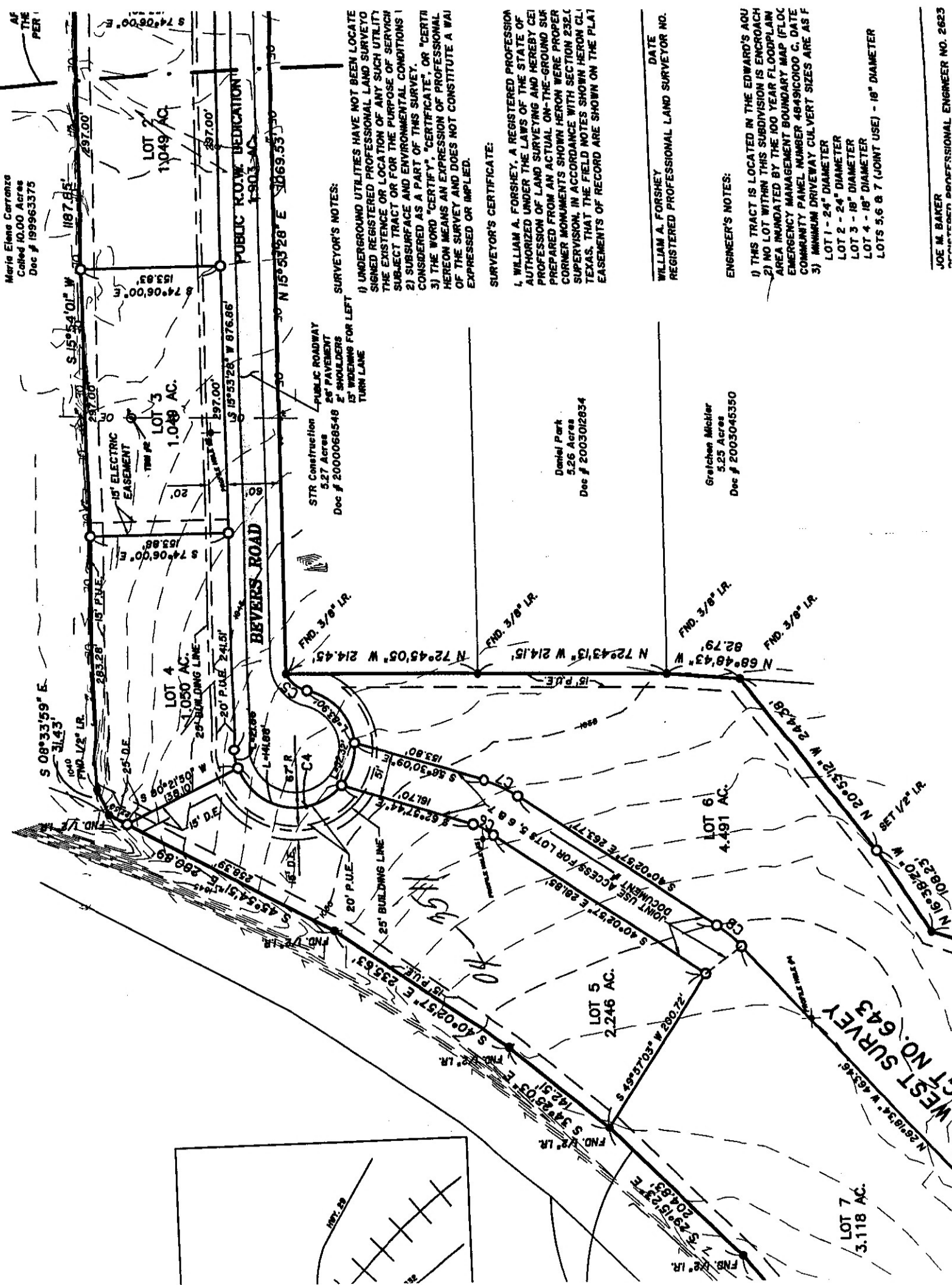
INSPECTOR

SLS

DATE

11-19-04

Marie Elena Carranza
Called 10.00 Acres
Dec # 199963375



SURVEYOR'S NOTES:

- 1) UNDERGROUND UTILITIES HAVE NOT BEEN LOCATED. SIGNED REGISTERED PROFESSIONAL LAND SURVEYOR HAS THE EXISTENCE OR LOCATION OF ANY SUCH UTILITY SUBJECT TRACT OR FOR THE PURPOSE OF SERVICE.
- 2) SUBSURFACE AND ENVIRONMENTAL CONDITIONS ARE CONSIDERED AS A PART OF THIS SURVEY.
- 3) THE WORD "CERTIFY", "CERTIFICATE", OR "CERTIFICATE" HEREON MEANS AN EXPRESSION OF PROFESSIONAL JUDGEMENT OF THE SURVEY AND DOES NOT CONSTITUTE A WARRANTY EXPRESSED OR IMPLIED.

SURVEYOR'S CERTIFICATE:

I, WILLIAM A. FORSHEY, A REGISTERED PROFESSIONAL LAND SURVEYOR AND HEREBY CERTIFY THAT THE SURVEY WAS PREPARED FROM AN ACTUAL ON-THE-GROUND SURVEY. THE CORNER MONUMENTS SHOWN HEREON WERE PROPERLY PLACED IN ACCORDANCE WITH SECTION 232.01, TEXAS, THAT THE FIELD NOTES SHOWN ON THE PLAT EASEMENTS OF RECORD ARE SHOWN ON THE PLAT.

DATE _____
WILLIAM A. FORSHEY
REGISTERED PROFESSIONAL LAND SURVEYOR NO. _____

ENGINEER'S NOTES:

- 1) THIS TRACT IS LOCATED IN THE EDWARD'S AQUICLUDER.
- 2) NO LOT WITHIN THIS SUBDIVISION IS ENCLOSED BY THE 100 YEAR FLOODPLAIN AREA INDICATED BY THE 100 YEAR FLOODPLAIN AREA EMERGENCY MANAGEMENT BOUNDARY MAP (FLOODED AREA) COMMUNITY PANEL NUMBER 4849C000 C, DATE 10/1/00. MINIMUM DRIVEWAY CULVERT SIZES ARE AS FOLLOWS:
 - LOT 1 - 24" DIAMETER
 - LOT 2 - 24" DIAMETER
 - LOT 3 - 18" DIAMETER
 - LOT 4 - 18" DIAMETER
 - LOTS 5, 6 & 7 (JOINT USE) - 18" DIAMETER

JOE M. BAKER
REGISTERED PROFESSIONAL ENGINEER NO. 2623

A. U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT <div style="font-size: 2em; font-weight: bold; margin-top: 10px;">COPY</div>		B. TYPE OF LOAN 1. <input type="checkbox"/> 1FHA 2. <input type="checkbox"/> 1FHA 3. <input checked="" type="checkbox"/> CONV. UNINS. 4. <input type="checkbox"/> 1VA 5. <input type="checkbox"/> CONV. INS. 6. FILE NUMBER: 04004630 7. LOAN NUMBER: 8. MTG. INS. CASE NO.:	
Final			
C. NOTE: This form is furnished to give you a statement of actual settlement costs. Amounts paid to and by the settlement agent are shown. Items marked ("p.o.c.") were paid outside the closing; they are shown here for information purposes and are not included in the totals.			
D. NAME OF BORROWER: JACK BEVERS, WILLIAM MORAN ADDRESS: 12605 BLACKFOOT TRAIL, AUSTIN, TEXAS 78729-7704			
E. NAME OF SELLER: ADDRESS: _____ SELLER TIN: _____			
F. NAME OF LENDER: STATE BANK 12730 Research Blvd. ADDRESS: Austin, TX 78759			
G. PROPERTY LOCATION: Lot 5 Amifast Industrial Park Subdivision Liberty Hill TX 78642			
H. SETTLEMENT AGENT: GRACY TITLE COMPANY ADDRESS: _____ PHONE NUMBER: _____			
PLACE OF SETTLEMENT: GRACY TITLE COMPANY ADDRESS: 251 N. BELL BLVD., STE. #106 CEDAR PARK, TEXAS 78613		SETTLEMENT AGENT TIN: 74-2823956 I. SETTLEMENT DATE Closing date: 09/10/04 Proration date: 09/11/04	
J. SUMMARY OF BORROWER'S TRANSACTION		K. SUMMARY OF SELLER'S TRANSACTION	
100. GROSS AMOUNT DUE FROM BORROWER:		400. GROSS AMOUNT DUE TO SELLER:	
101. Contract sales price		401. Contract sales price	
102. Personal property		402. Personal property	
103. Settlement charges to borrower (line 1400)	14,621.02	403.	
104. PAYOFF: FIRST TEXAS BANK	217,979.75	404.	
105.		405.	
Adjustments for items paid by seller in advance:		Adjustments for items paid for seller in advance:	
106. City/town taxes to		406. City/town taxes to	
107. County taxes to		407. County taxes to	
108. Assessments to		408. Assessments to	
109.		409.	
110.		410.	
111.		411.	
112.		412.	
120. GROSS AMOUNT DUE FROM BORROWER:	232,600.77	420. GROSS AMOUNT DUE TO SELLER:	
200. AMOUNTS PAID BY OR IN BEHALF OF BORROWER:		500. REDUCTIONS IN AMOUNT DUE TO SELLER:	
201. Deposit or earnest money		501. Excess deposit (see instructions)	
202. Principal amount of new loan(s)		502. Settlement charges to seller (line 1400)	
203. Existing loan(s) taken subject to		503. Existing loan(s) taken subject to	
204.		504. Payoff of first mortgage loan	
205. CONSTRUCTION LOAN AMOUNT (\$853,000.00)		505. Payoff of second mortgage loan	
206. FIRST DRAW (PAYOFF)	217,979.75	506.	
207.		507.	
208.		508.	
209.		509.	
Adjustments for items unpaid by seller:		Adjustments for items unpaid by seller:	
210. City/town taxes to		510. City/town taxes to	
211. County taxes to		511. County taxes to	
212. Assessments to		512. Assessments to	
213.		513.	
214.		514.	
215.		515.	
216.		516.	
217.		517.	
218.		518.	
219.		519.	
220. TOTAL PAID BY/FOR BORROWER:	217,979.75	520. TOTAL REDUCTION IN AMOUNT:	
300. CASH AT SETTLEMENT FROM/TO BORROWER:		600. CASH AT SETTLEMENT TO/FROM SELLER:	
301. Gross amount due from borrower (line 120)	232,600.77	601. Gross amount due to seller (line 420)	
302. Less amounts paid by/for borrower (line 220)	217,979.75	602. Less total reductions in amount due seller (line 520)	
303. CASH <input checked="" type="checkbox"/> FROM <input type="checkbox"/> TO BORROWER:	14,621.02	603. CASH <input type="checkbox"/> TO <input checked="" type="checkbox"/> FROM SELLER:	0.00

SUBSTITUTE FORM 1099 SELLER STATEMENT-The information contained in Blocks E,G,H and I and on line 401 (or, if line 401 is asterisked, lines 403 and 404) is important tax information and is being furnished to the Internal Revenue Service. If you are required to file a return, a negligence penalty or other sanction will be imposed on you if this item is required to be reported and the IRS determines that it has not been reported.

SELLER INSTRUCTION-If this real estate was your principal residence, file Form 2119, Sale or Exchange of Principal Residence, for any gain, with your income tax return; for other transactions, complete the applicable parts of Form 4797, Form 6252 and/or Schedule D (Form 1040).

You are required by law to provide _____ with your correct taxpayer identification number.
 If you do not provide _____ with your correct taxpayer identification number, you may be subject to civil or criminal penalties.
 Under penalties of perjury, I certify that the number shown on this statement is my correct taxpayer identification number.

Seller _____

138 BEVERS Rd
LIBERTY HILL, TX
78642



Board of Health: Mary Faith Sterk, Chair • Margaret R. Fink • Katherine M. Galloway • Angela Tietz • Lettie A. Lee • Scott D. Evans

Karen Wilson, Director

Questions for Commercial OSSF Applications

Please provide information to the WCCHD and your OSSF designer. This information will insure the best system for your business is designed and installed.

☐ What is the building being used for? WAREHOUSE

☐ Are there showers? NO

If so, how many? _____

☐ How many toilets? 2

Bathroom sinks? 2

☐ Is there a kitchen? COFFEE BAR

If so, how many and what plumbing is in the kitchen? Provide a FULL description, including size of the kitchen and how it will be used (preparing full meals versus heating food that was brought in, etc...) _____

SMALL SINK AND MICROWAVE

☐ Will there be any manufacturing at this location? NO

If so, describe; include information on the kind of waste and quantity of waste that will be disposed in the OSSF

☐ Will there be a normal business day or shift work here? NORMAL

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OCT 06 2004

WCCHD-ENV

OSSF # 2004-3511

LOCATION OF PROPERTY138 Beavers Rd.
Liberty Hill, TX

Unincorporated Area? yes

PERFORMED BYJason Clark, R.S.
SE 7660
P.O. Box 32
Thrall, TX 76578
(512) 856-2933**INSTALLER INFO.**

Gene Rampy, OSII

Date Performed: 11-9-04**Profile Hole #1**

Depth	Class	Structure	Mottling/ groundwater	Restrictive Horizon	Observations
0-6"	III	Blocky	No evidence	None observed	Drk. brn. silty clay loam
7-55"	III	Blocky	No evidence	None observed	Tan clay loam marl

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Depth	Class	Structure	Mottling/ groundwater	Restrictive Horizon	Observations
0-10"	III	Blocky	No evidence	None observed	Drk. brn. silty clay loam
11-58"	III	Blocky	No evidence	None observed	Tan clay loam marl

Proposed Excavation Depth: 18" to 36" Conventional

Features of Site Area:

- 100 year flood zone = no
- upper water shed = no
- ponds, streams, water impoundments = no, detention pond 25' setback
- existing or proposed well in area = no
- organized sewage service available to lot = no
- EARZ features within 150' of proposed OSSF = no
- Evidence of groundwater = no

Based on this site evaluation, the following systems may be utilized:

- Conventional = yes
- Drip = yes
- ET = no
- Graveless = yes
- Leaching chamber = yes
- LPD = yes
- Mound = yes
- Soil substitution = no
- Spray = no

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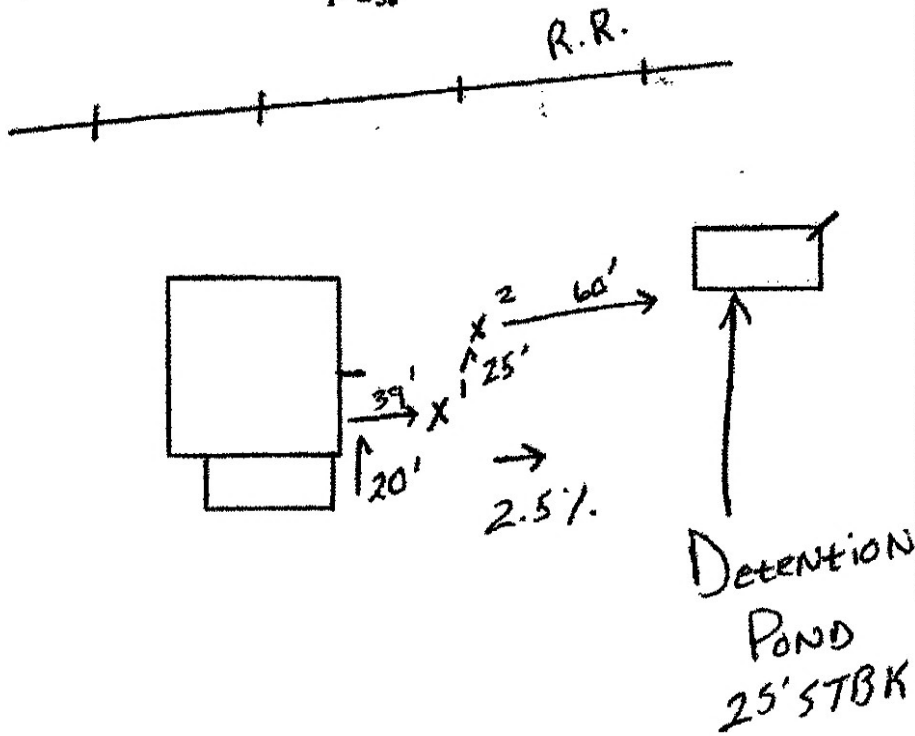
NOV 12 2004

WCCHD-ENV

SITE DAWING

1" = 50'

NORTH
↑



I certify that the findings of this report are based on my field observations and are accurate to the best of my ability:

Jason Clark, R.S.

SE 7660

Signature:

Jason Clark

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NOV 12 2004

WCCHD-ENV

OSSF#: 2004-3511

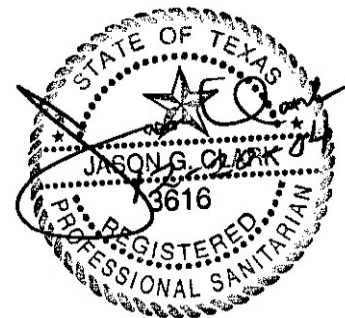
LOCATION OF PROPERTY:

**138 Bevers Rd.
Liberty Hill, TX**

SUBMITTED BY:

**Jason Clark, R.S.
P.O. BOX 32
Thrall, TX 76578
512-856-2933**

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The site evaluation has already been completed by your office.

- ☐ **No portion of this lot resides in the 100-year floodplain.**
- ☐ **No portion of this system will be located within 10' of a private water line.**
- ☐ **This lot does not lie within the EARZ.**
- ☐ **Positive drainage exists on this lot.**

DESIGN CONCLUSION

Type of facility:	Industrial park warehouse (non-retail)
Square footage:	15,000 sf
# of employees:	5 employees @ 4 gpd per employee
Maximum Daily Discharge Rate:	80 GPD (will size for 20 employees / future expansion)

Based on the results of the site evaluation, a **conventional** OSSF was selected for this site.

PROPOSED OSSF DESIGN LAYOUT AND FIGURES

- Figure 1- OSSF design layout at this particular site
- Figure 2- Cross section of the tanks to be used
- Figure 3- Cross section of the drainfield

This OSSF will include these components:

- A two-way cleanout placed within three feet of the house and after tank.

- A 750 gal two-compartment septic tank (or equivalent). Tank must have a minimum 5' setback from the foundation and be level within 1". They should be bedded with a minimum of 4" of washed sand.
- SCH 40 pvc shall be used before the tank, and SDR 35 or greater after the tank.
- The drainfield will consist of 408 square feet.

CALCULATIONS

- Maximum daily discharge rate: 80 GPD (Q)
- Soil application rate: 0.2 for class III soil (Ra)
- Total absorptive area: A

Total absorptive area (A) = $\frac{Q}{Ra}$ Therefore, $\frac{80}{0.2} = 400$ square feet required

As Designed:

No sidewall credit included !

One 12' x 34' bed @ 408 s.f.

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DEC 30 2004
WCCED-ENV

DRAINFIELD CRITERIA

- One 12' x 34' bed
- The bed will be 18" to 36" in depth
- Bed bottom should be level within 1 inch every 25'.
- The entire field area is to be covered with a minimum of 4 to 6" of sandy loam or approved existing class III soil.
- 0.75" TO 2" gravel (12" total). At least 6" under drainline.

DRAINAGE

This lot exhibits positive drainage. The OSSF selected for this site should have no problems functioning properly in relation to drainage.

LANDSCAPE AND VEGETATION PLAN

The field must be seeded, mulched or sodded immediately after installation. The field must then be mowed and maintained after installation.

OSSF MAINTENANCE & LIMITATIONS

This OSSF design is intended to meet the minimum state requirements provided by TCEQ's 30 Administrative Code, Chapter 285- On-Site Sewage Facility Regulations.

The homeowner should be aware that a septic system of limited capacity, will not tolerate prolonged abuse. The operational requirements listed below should be followed at all times:

Water saving devices shall be utilized throughout the life of this system. Never place a greater wastewater load on your system than prescribed by the rules and regulations as described within this report. (80 gpd)

Garbage disposals should be avoided. The use of garbage disposals could cause complete system failure.

Avoid the use of water softeners with an OSSF. They have been proven to have adverse effects on septic systems. They may also void all equipment warranties.

Do not dispose grease into the OSSF.

Do not dispose of any objects into the system other than toilet paper.

Do not add any treatment items to the system, such as, toilet tank chlorine tablets, yeast, enzymes etc.

Repair all leaky faucets and toilets immediately.

Rainfall runoff and surface water runoff must be diverted from the OSSF by the homeowner.

At the time of this site evaluation performed by myself and the WCCHD, no groundwater was found. It should be noted that groundwater could occur at any time and may cause adverse effects to the OSSF.

Do not operate heavy machinery over tanks, supply lines, and drainfield.

Maintain vegetation over the drainfield. Keep the vegetation over the drainfield mowed.

Perform routine checks on the system to ensure that the pump and alarm are operating.

Have your system evacuated every 1 to 3 years to prevent sludge buildup and to enhance your system's overall performance.

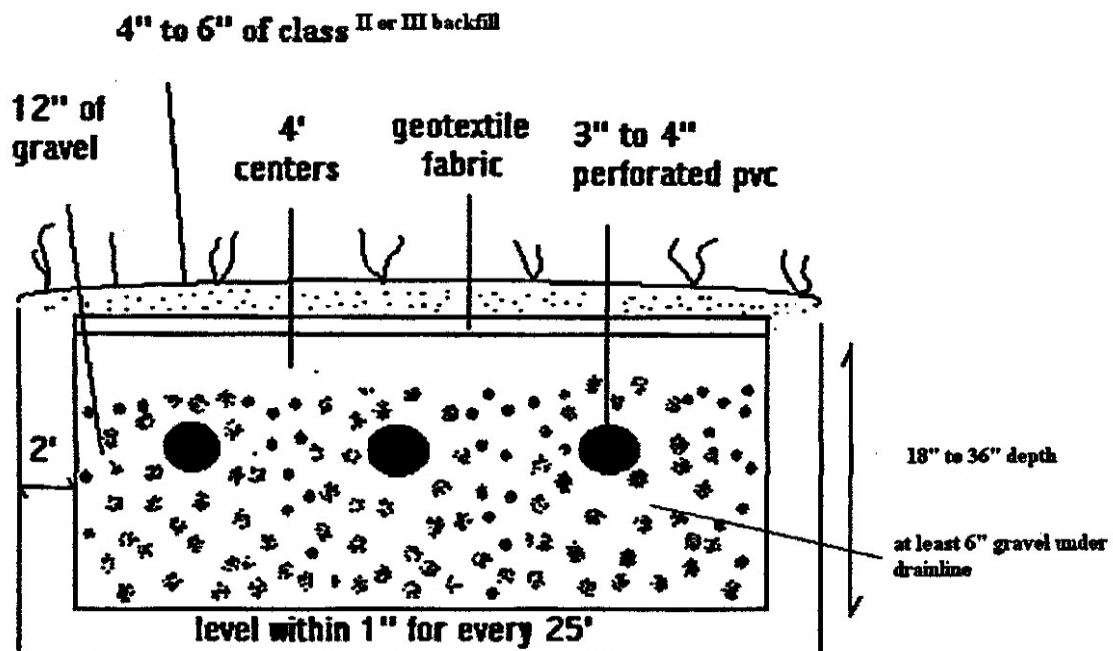
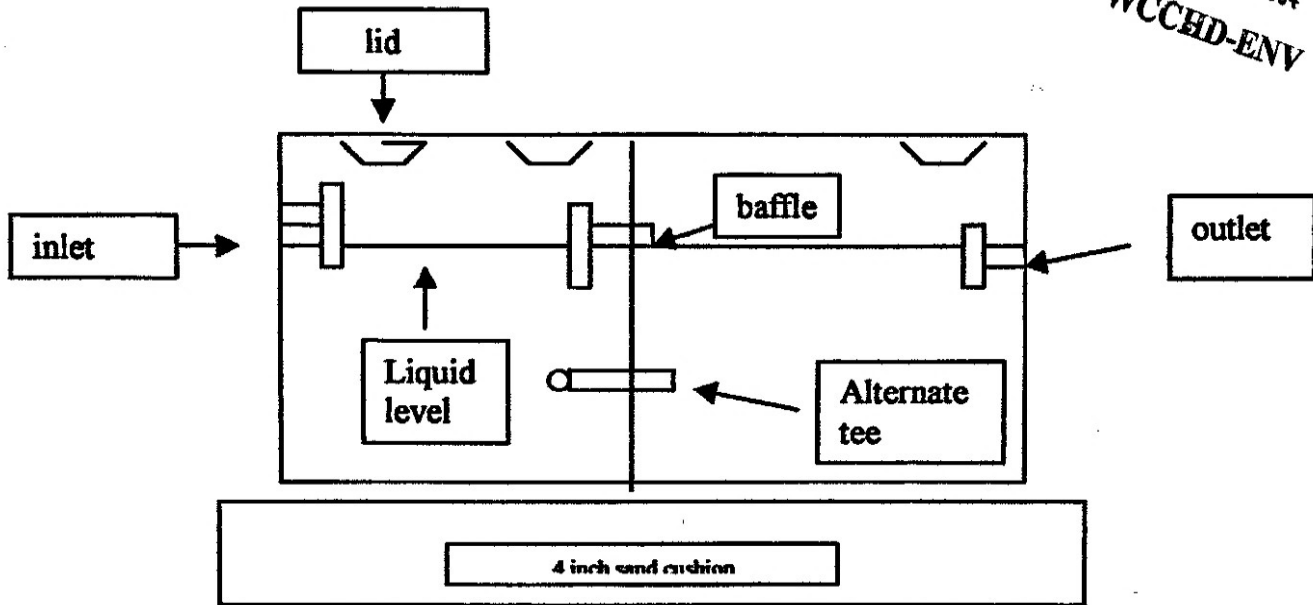
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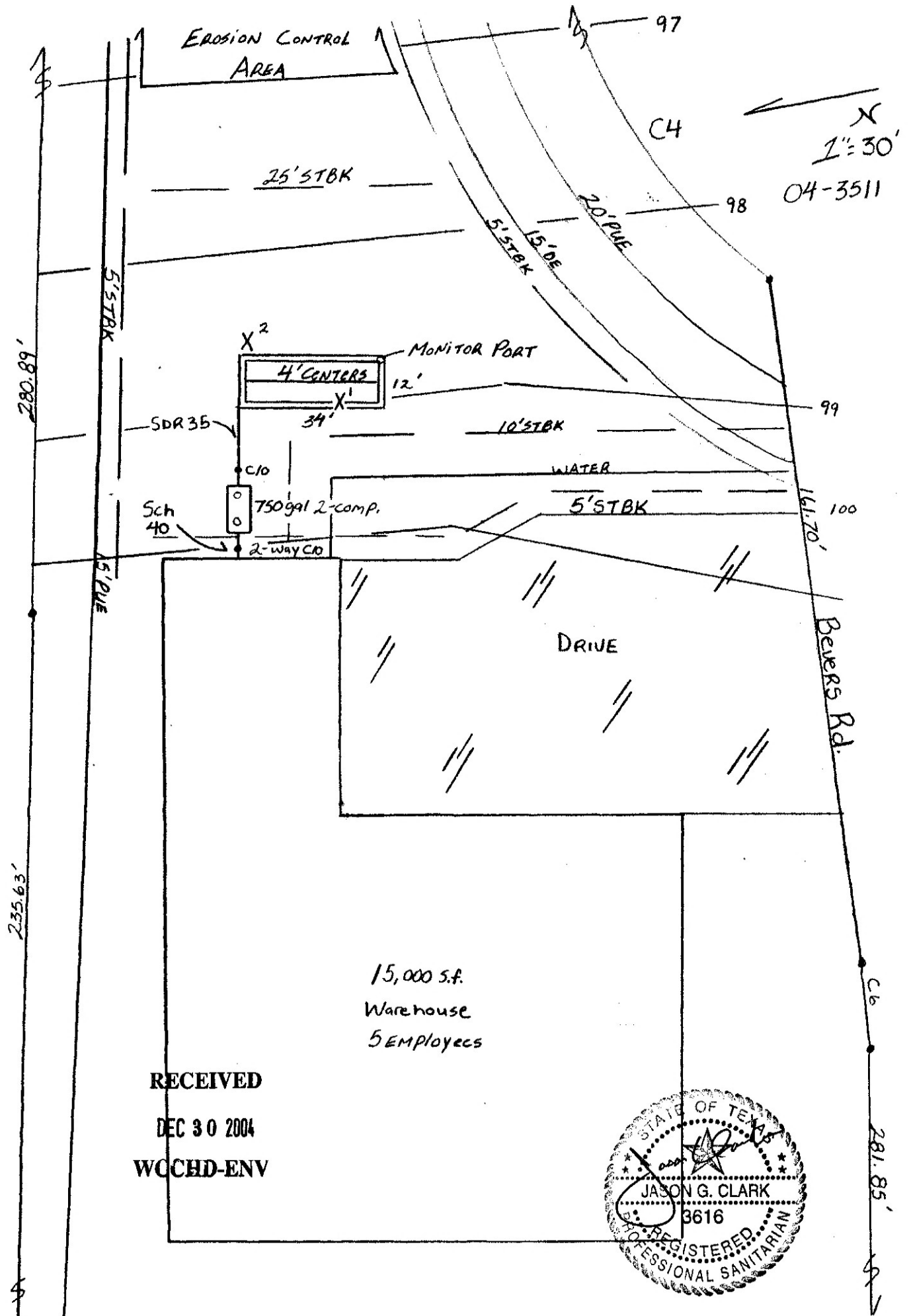
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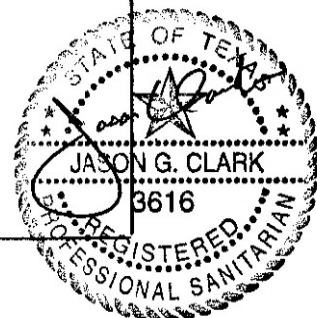
750 GALLON TWO-COMPARTMENT SEPTIC TANK
OR EQUIVALENT

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DEC 30 2004
WCCED-ENV

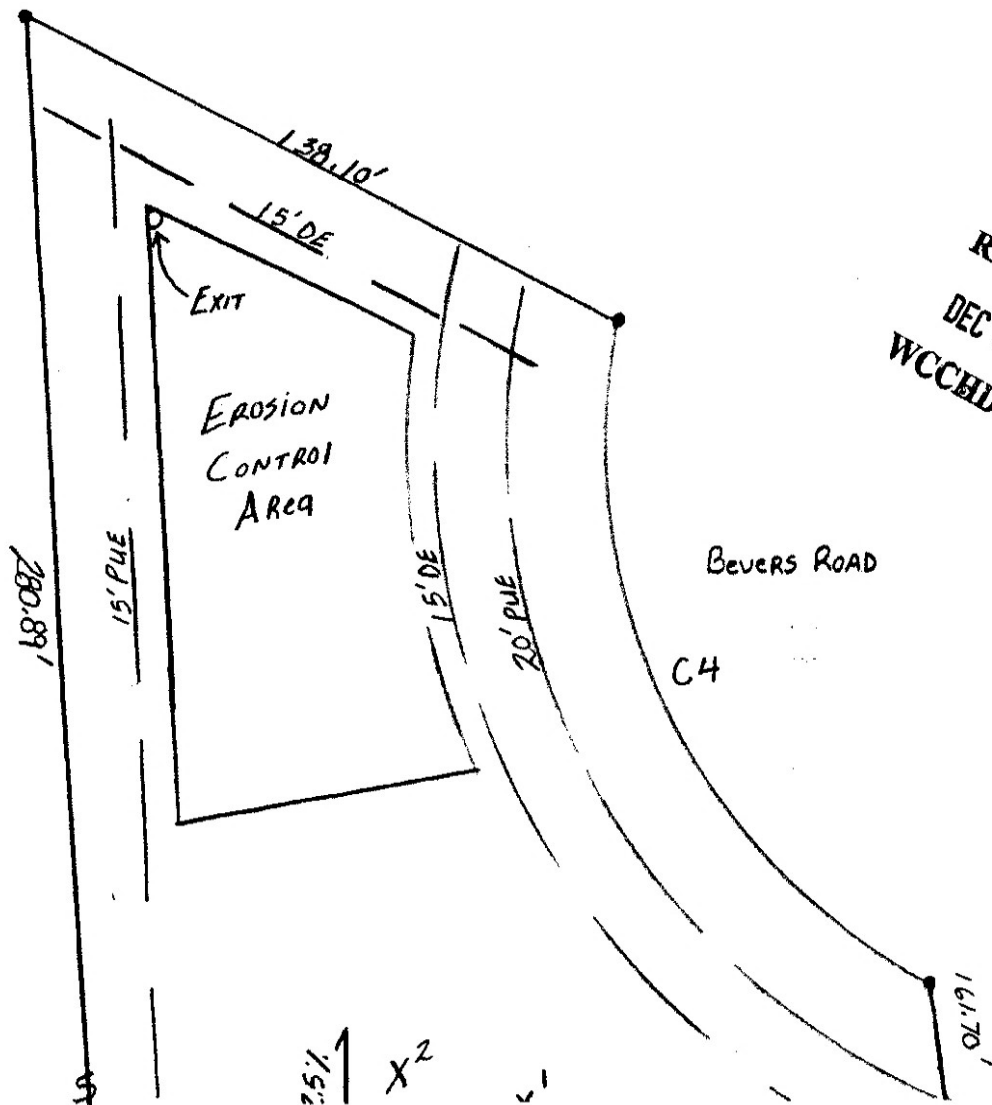




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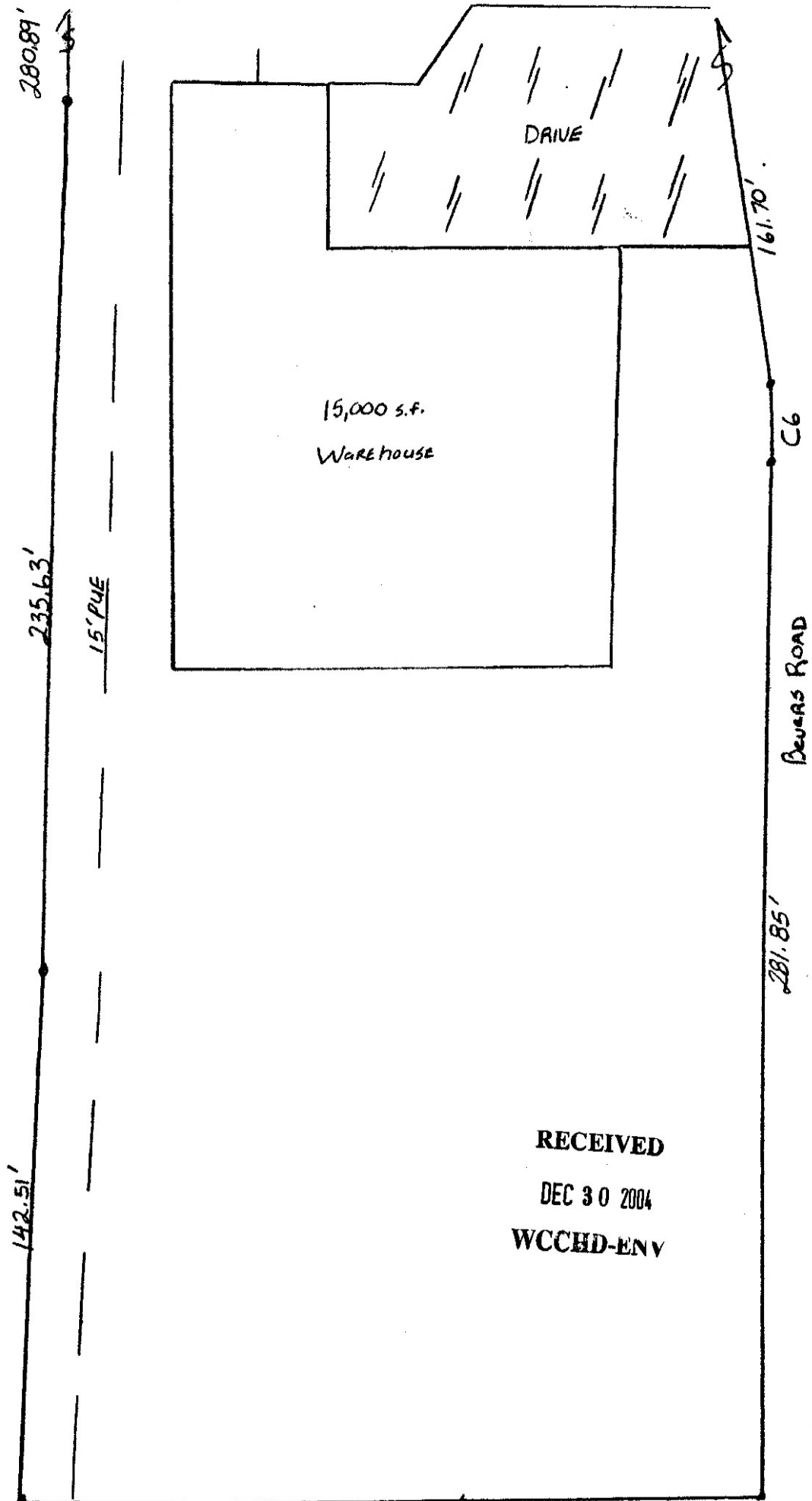


1"=40'
04-3511



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DEC 30 2004
WCCED-ENV

04-3511



WCCHD CHECK LIST FOR PROFESSIONAL DESIGNS - ON SITE SEWAGE FACILITIES

DATE: 01/19/05 OWNER: David Morgan OSSF #: 2004-3511
 LOCATION: 138 Bevers Rd., Liberty Hill
 DESIGNER: Jason Clark, RS SITE EVALUATOR: Jason Clark, OS7660
 Commercial?: No
 Type of System: Conventional Absorption Employees on Permit: 5 Sq Ft: 15000
 Wastewater Design Flow (Gal/Day): 80 Employees on Design: 20 Sq Ft: 15000
 Soil/Surface Application Rate: 0.2 Equivalent Bedrooms:

SITE EVALUATION (Most restrictive conditions)

Class of Native Soil: III SLR required:
 Restrictive layers (Rock, Clay, etc.): → Depth: 60" Flood Plain addressed: No FP
 Evidence of Groundwater: No → Depth: n/a EARZ Addressed: No RZ
 NOT APPROVED by Field Inspector:
 APPROVED by Field Inspector: sls 12/16/04

TREATMENT PROCESS

Septic / Trash Tank (gallons): 750 Tank specifications: Concrete 2/c
 Filtration / Model:

DISPOSAL PROCESS

Drain Field (Linear Feet): n/a Drain Field (Square Feet): 408
 Trench or Bed: Bed Diversion Valve: No
 Depth Min/Max (inches): 18/36" Width Min/Max (inches): Bed 12 x 34
 Gravel Size & Depth: 3/4-2" (12") Backfill Class/Height above grade: 4-6"
 Bed Constuction Notes: Level within 1" every 25'
 Leaching Chamber Specs: N/a
 Pipe Specs: Schedule 40, SDR afte

CONSTRUCTION PLAN (SITE PLAN/CROSS SECTIONS)

Contour lines/slope - esp. in disposal area: 2% Well locations shown: N/a Water line shown: Shown
 Profile Holes shown and near drain field: Shown Property lines shown: Setbacks shown/stated: Shown
 Cross section of tanks: shown Cross Sections Labeled: yes
 Landscape/Vegetation Notes: Seed or mulch & maintained

CONTRACTURAL / ADMINISTRATIVE

Signed/Sealed/Dated by designer: 1/12/05 Fees Due:

ADDITIONAL NOTES:

DESIGN APPROVED: YES NO

Inspector / Date

OSSF#: 2004-3511

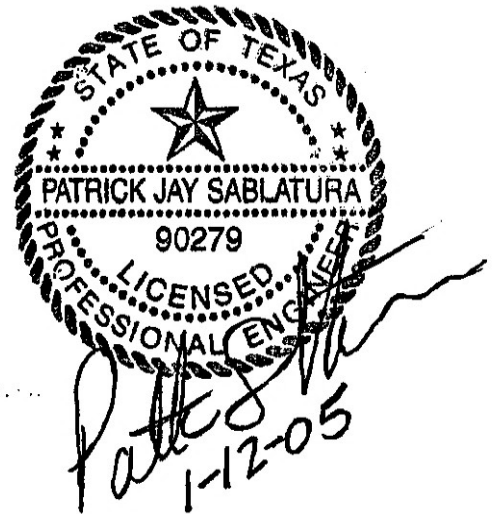
Location of Property:

138 Bevers Road
Liberty Hill, Texas

Submitted By:

Pat Sablatura, P.E.
11509 Autumn Ridge Drive
Austin, Texas 78759
T: (512) 845-2760
F: (512) 219-9888

Jason Clarke, R.S.
P.O. Box 32
Thrall, Texas 76578
T: (512)-856-2933



Site Evaluation Conclusions:

The site evaluation has already been completed by your office and determined the following items:

- No portion of this lot resides in the 100-year floodplain
- No portion of this system will be located within 10 feet of a private water line
- No portion of this lot lies within the Edwards Aquifer Recharge Zone
- Positive drainage exists on this lot

Design Criteria:

Type of Facility:	Commercial/Industrial Warehouse (non-retail)
Building Area:	15,000 square feet
Number of Employees:	5
Estimated Future Employees:	15
Total Employees for Design:	20
Daily Usage Per Employee:	4 gallons per day
Maximum Daily Discharge Rate:	80 gallons per day
OSSF Selection:	Conventional OSSF(based on site evaluation results)

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Proposed OSSF Design Layout and Associated Figures:

- Figure 1: OSSF Design Layout Site Plan
Figure 2: Cross-section of the proposed tanks
Figure 3: Cross-section of the proposed drainfield

The proposed OSSF shall include the following components:

- A two-way cleanout placed within three feet of the building and at tank discharge location
- One 750 gallon, two compartment septic tank (or equivalent).
- Tank shall have a minimum setback of 5 feet from the building foundation
- Tank shall be level within 1"
- Tank shall be bedded with 4" minimum of washed sand
- Piping prior to tank shall consist of SCH 40 PVC
- Piping after tank shall consist of SDR 35 or greater
- One drainfield with an area of 408 square feet

Design Calculations:

- | | |
|-----------------------------------------|---------------------------------------------|
| • Sidewall Credit: | Not Utilized |
| • Maximum Daily Discharge Rate (Q): | 80 gallons per day |
| • Soil Application Rate (R_a): | 0.2 for class III soil |
| • Total Absorptive Area (A): | $Q/R_a = 80/0.2 = 400$ square feet required |
| • Proposed Drainfield size: | $12 \times 34 = 408$ square feet |

Drainfield Criteria:

- Area: $12 \times 34 = 408$ square feet
- Depth: 18" to 36"
- Bed Bottom: Level within 1 inch in 25 feet
- Coverage: The entire drainfield shall be covered with a 4 inch minimum to 6 inches of sandy loam or approved existing class III soil.
- Drainline: 6 inch minimum below drainline of 0.75" – 2" gravel (12" total)

Drainage:

As a result of the site evaluation, this site has been determined to exhibit positive drainage. Thus, the conventional OSSF selected for this lot should have no problems functioning properly in relation to any drainage issues.

Landscape and Vegetation Plan:

The drainfield must be seeded or mulched immediately after installation. The drainfield must then be mowed and maintained after installation.

OSSF Maintenance and Limitations:

- This OSSF design is intended to meet the minimum state requirements as provided by the Texas Commission on Environmental Quality Administrative Code 30, Chapter 285- On-Site Sewage Facility Regulations.
- The owner should be aware that a septic system of limited capacity will not tolerate prolonged abuse. The operational requirements listed below should be followed at all times:
 - Water saving devices shall be utilized throughout the life of this system. Never place a greater wastewater load on this system than that prescribed by the rules and regulations as described in this report. Do not exceed the designed maximum daily discharge rate.
 - Garbage disposals should be avoided. The use of garbage disposals could cause complete system failure.
 - Avoid the use of water softeners with an OSSF. They have proven to have adverse effects on septic systems. They may also void all equipment warranties.
 - Do not dispose of grease into the OSSF.
 - Do not dispose of any objects into the system other than toilet paper.
 - Do not add any treatment items to the system such as toilet tank chlorine tablets, yeast, enzymes, etc.
 - Repair all leaky faucets and toilets immediately.
 - Rainfall runoff and surface water runoff must be diverted away from the OSSF by the owner.
 - At the time of this site evaluation performed by myself and the WCCHD, no groundwater was found. It should be noted that groundwater could occur at any time and may cause adverse effects to the OSSF.
 - Do not operate heavy machinery over tanks, supply lines or drainfield.
 - Maintain vegetation over the drainfield. Keep the vegetation over the drainfield mowed.
 - Perform routine checks on the system to ensure that the pump and alarm are properly operating.
 - Have your system evacuated every 1 to 3 years to prevent sludge buildup and enhance the overall performance of your system.

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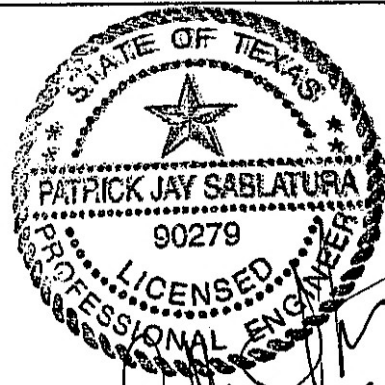
750 GALLON
TWO-COMPARTMENT
SEPTIC TANK OR
EQUIVALENT

LID

BAFFLE

INLET

WATER LEVEL



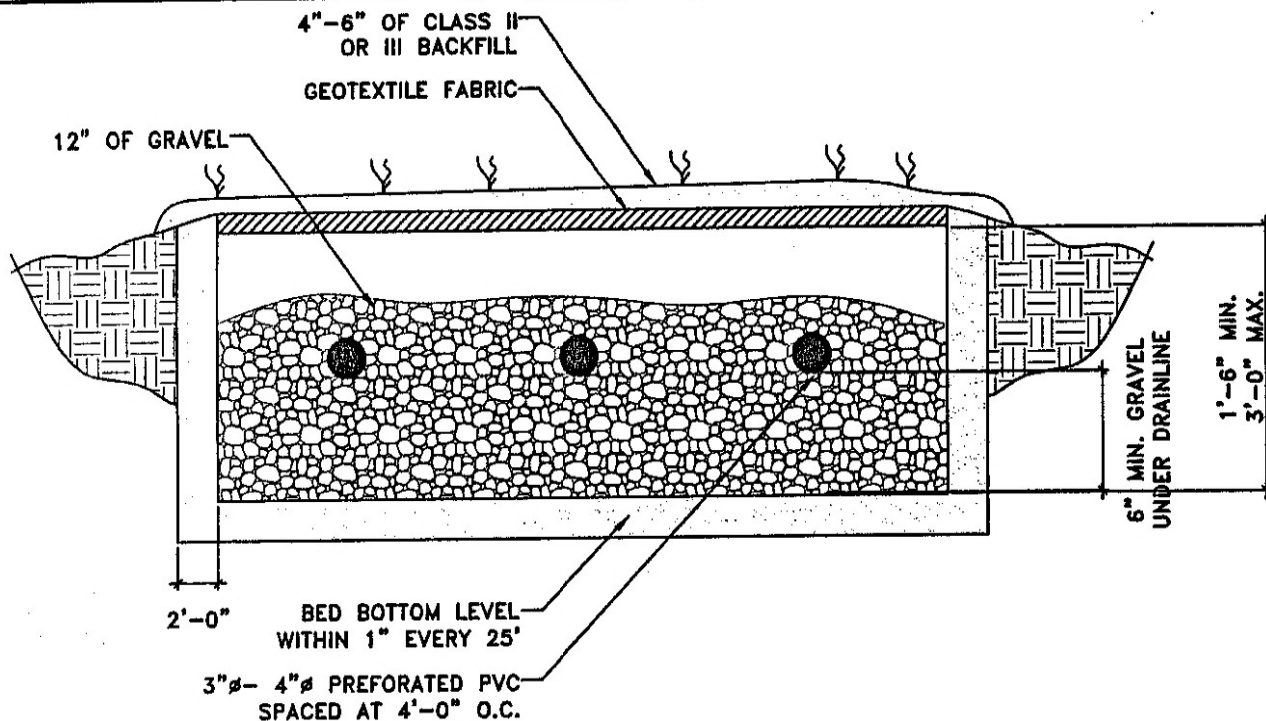
Patrick
1-12-05

OUTLET

ALTERNATE
TEE

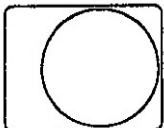
4" SAND CUSHION

01 SEPTIC TANK CROSS-SECTION



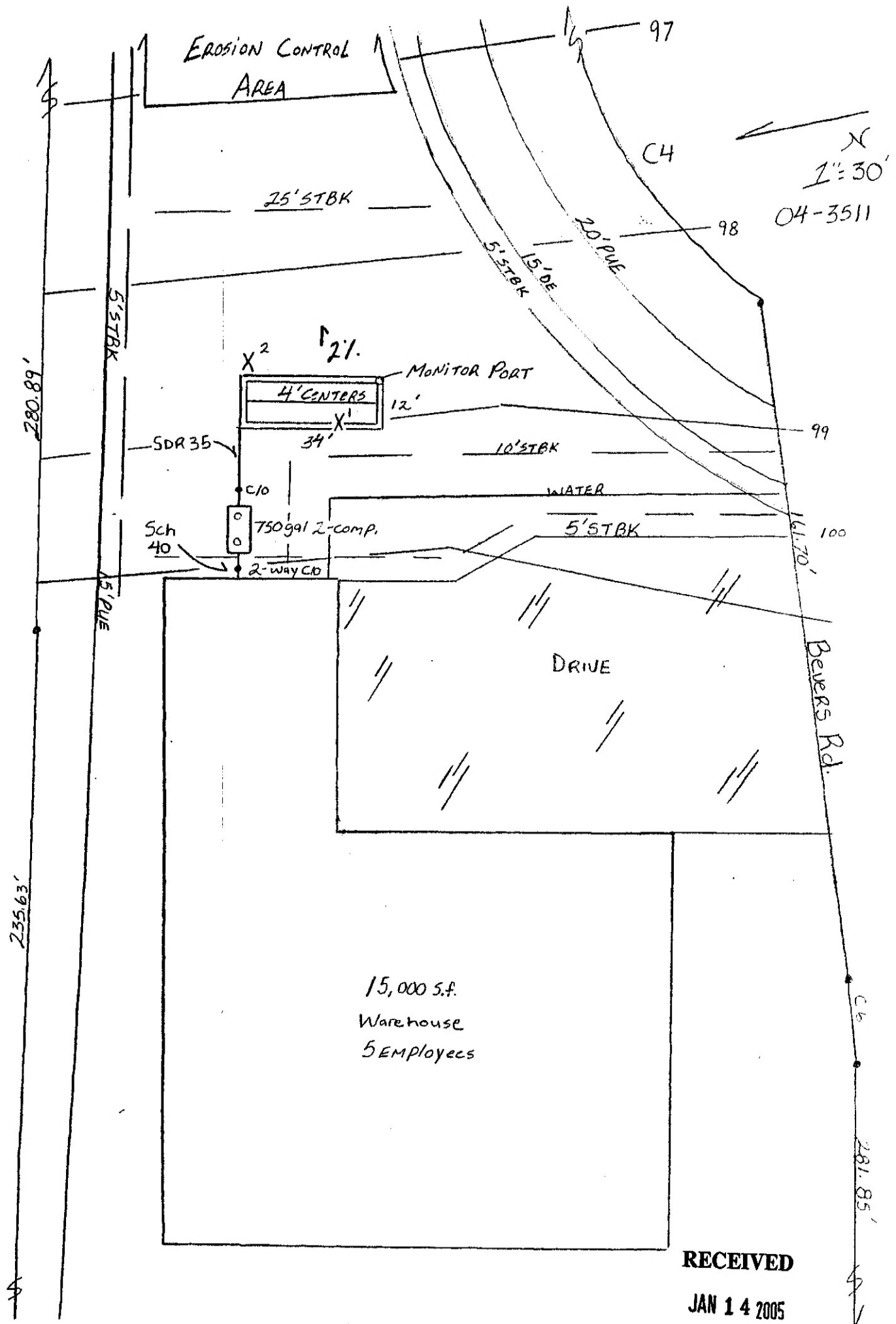
02 DRAINFIELD CROSS-SECTION

A1.0	DATE	REV	BY	DATE



OSSF FIGURES

**Commercial
Building**
138 Bevers Road
Liberty Hill, Texas



ATTACHMENT G – ALTERNATIVE SECONDARY CONTAINMENT METHODS

No AST is proposed with this project.

ATTACHMENT H – AST CONTAINMENT STRUCTURE DRAWINGS

No AST is proposed with this project.

ATTACHMENT I – 20% OR LESS IMPERVIOUS COVER WAIVER

This site is proposing more than 20% impervious cover.

ATTACHMENT J – BMPS FOR UPGRADIENT STORMWATER

Upgradient runoff will flow through the site from 0.31 acres of the railroad right-of-way located to the north of the project site. Any offsite runoff entering the project area on the site will be directed to the proposed earthen channel to run along the southern boundary of the site and flow to the proposed batch detention facility.

ATTACHMENT K – BMPS FOR ON-SITE STORMWATER

A batch detention pond is proposed to be constructed. The batch detention pond was sized to serve both existing site and proposed improvements with a total impervious cover of 1.50 acres. The pond is proposed to be located at the east end of the site and will replace the existing detention basin constructed with the original building. The TSS removal efficiency of the proposed batch detention system is 91% per the TCEQ Edwards Aquifer Protection Program technical guidance manual. The pond has been designed to detain flows for a minimum of 12 hours after a storm event and then release flows via a 6-inch pipe with automated valve to the downstream. Flows are to be released within 48 hours after the initial delay and the valve is to remain open for an additional two hours after the floats sense that the pond is empty.

The calculated required total capture volume of the pond is 6,208 cubic feet and the proposed volume of the batch detention pond is 6,578 cubic feet which exceeds the required amount. Please refer to the construction documents referenced in Attachment M and the TCEQ water quality calculation spreadsheet on the following pages for additional information.

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

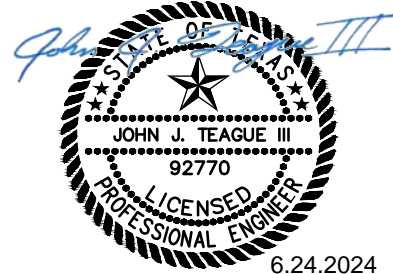
Site Data: Determine Required Load Removal Based on the Entire Project

County =	Williamson	
Total project area included in plan *	2.90	acres
Predevelopment impervious area within the limits of the plan *	0.00	acres
Total post-development impervious area within the limits of the plan *	1.50	acres
Total post-development impervious cover fraction *	0.52	
P =	32	inches

$L_{M \text{ TOTAL PROJECT}}$ = **1306** 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 =	2.90	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	1.50	acres
Post-development impervious fraction within drainage basin/outfall area =	0.52	
$L_{M \text{ THIS BASIN}}$ =	1306	lbs.

3. Indicate the proposed BMP Code for this basin.

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

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

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

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

where:

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

A_i = Impervious area proposed in the BMP catchment area

A_p = Pervious area remaining in the BMP catchment area

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

A_C =	2.90	acres
A_i =	1.50	acres
A_p =	1.40	acres
L_R =	1533	lbs

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

Desired $L_{M \text{ THIS BASIN}}$ = **1306** lbs.

F = **0.85**

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 = 1.32 inches
Post Development Runoff Coefficient = 0.37
On-site Water Quality Volume = 5102 cubic feet

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

Off-site area draining to BMP = 0.74 acres
Off-site Impervious cover draining to BMP = 0.00 acres
Impervious fraction of off-site area = 0.00
Off-site Runoff Coefficient = 0.02
Off-site Water Quality Volume = 71 cubic feet

Storage for Sediment = 1035

Total Capture Volume (required water quality volume(s) x 1.20) = 6208 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.

7. Retention/Irrigation System

Designed as Required in RG-348

Pages 3-42 to 3-46

Required Water Quality Volume for retention basin = NA cubic feet

Irrigation Area Calculations:

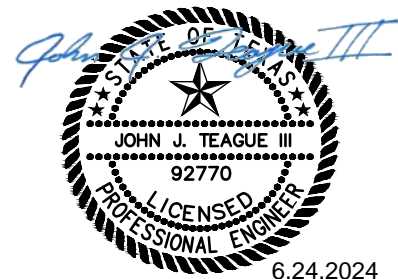
Soil infiltration/permeability rate = 0.1 in/hr Enter determined permeability rate or assumed value of 0.1
Irrigation area = NA square feet
NA acres

8. Extended Detention Basin System

Designed as Required in RG-348

Pages 3-46 to 3-51

Required Water Quality Volume for extended detention basin = 6208 cubic feet



ATTACHMENT L – BMPS FOR SURFACE STREAMS

No surface streams are present which require additional BMPs.

ATTACHMENT M – CONSTRUCTION PLANS

The construction plans for the proposed batch detention facility have been included with this submittal and are located at the end of this electronic document. They are as follows:

- C.01 Cover Sheet
- C.02 General Notes
- C.03 Subdivision Plat
- C.04 Subdivision Plat
- C.05 Existing Conditions & Demolition Plan
- C.06 Site Plan
- C.07 Dimensional Control & Paving Plan
- C.08 Grading Plan
- C.09 Existing Drainage Area Map
- C.10 Proposed Drainage Area Map
- C.11 Subbasin Drainage Area Map
- C.12 Storm Drain Plan
- C.13 Detention Pond Plan
- C.14 Water Quality Calculations & Details
- C.15 Utility Plan
- C.16 Erosion Control & Sedimentation Plan
- C.17 Construction Details
- C.18 Storm Details
- C.19 Erosion Control & Sedimentation Details

ATTACHMENT N – INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

This Inspection, Maintenance, Repair and Retrofit Plan has been prepared for the 138 Bevers Road Warehouse Expansion project located at 138 Bevers Road in the City of Liberty Hill, Williamson County, Texas.

BMP Maintenance operations should be performed on a regular basis as outlined below and are required to ensure that the BMPs and measures are constructed and functioning as designed. Inspection and Maintenance must be performed as required to maintain site aesthetics, proper vegetation coverage, and BMP access.

This Inspection, Maintenance, Repair and Retrofit Plan has been prepared by using the guidance set forth under the RG-348 “Complying with the Edwards Aquifer Rule, Technical Guidance on Best Management Practices.

Batch Detention Basins

Batch detention basin maintenance activities are identical to those of extended detention basins with the addition of maintenance and inspections of the automatic controller and the valve at the outlet. Refer to the Edward’s Aquifer Technical Guidance Manual if additional information is required.

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

Mowing — The basin, basin side-slopes, and embankment of the basin must be mowed to prevent woody growth and control weeds. A mulching mower should be used, or the grass clippings should be caught and removed. Grass areas in and around basins should be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas.

Debris and Litter Removal — Debris and litter removal should take place twice a year, as part of the periodic mowing operations and inspections. Debris and litter will accumulate near the extended detention control device and should be removed during regular mowing operations and

inspections. Particular attention should be paid to floating debris that can eventually clog the low-flow control outlet and trash rack protection.

Erosion Control—the pond side slopes, emergency spillway, and embankment all may periodically suffer from slumping and erosion, although this should not occur if the soils are properly compacted during construction. Regrading and revegetation may be required to correct the problems. Correction of erosion control should take place whenever required based on periodic inspections.

Structural Repairs and Replacement — With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, headwalls, etc.) should be identified and repaired immediately. These repairs should include patching of cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. The various inlet/out and concrete outfall structures in a basin will eventually deteriorate and must be replaced.

Nuisance Control — Standing water or saturated conditions with the lower stage of the basin can create nuisance conditions for the public. Odors, mosquitoes, weeds, and litter are all occasionally perceived to be problems. Most of these problems are generally a sign that regular inspections and maintenance such as routine mowing, debris removal and/or outlet control cleaning are not being performed.

Sediment Removal — When properly designed and constructed, a batch detention basin will accumulate quantities of sediment over time. Sediment accumulation is a serious maintenance concern in batch detention dry ponds for several reasons. First, the sediment gradually reduces available stormwater management storage capacity within the basin. Secondly, sediment accumulation can make a batch detention basin very unsightly. Third, and perhaps most importantly, sediment tends to accumulate around the control device. Sediment deposition increases the risk that orifices will become clogged, and gradually reduces storage capacity reserved for pollutant removal. Sediment can also be resuspended if allowed to accumulate over time and escape through the low-flow outlet or grate on top of the outfall structure to the downstream channels. For these reasons, accumulated sediment needs to be removed from the lower stage when sediment buildup fills 20% of the volume of the lower basin or at least every 10 years. Care should be taken not to compromise the basin lining, if applicable, during maintenance. The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Logic Controller – The Logic Controller should be inspected as part of the twice-yearly investigations. Verify that the external indicators (active, cycle in progress) are operating properly by turning the controller off and on, and by initiating a cycle by triggering the level sensor in the basin. The valve should be manually opened and closed using the open/close switch to verify valve operation and to assist in inspecting the valve for debris. The solar panel, if applicable, should be inspected and any dust or debris on the panel should be carefully removed.

The controller and all other circuitry and wiring should be inspected for signs of corrosion, damage from insects, water leaks, or other damage. At the end of the inspection, the controller should be reset.

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

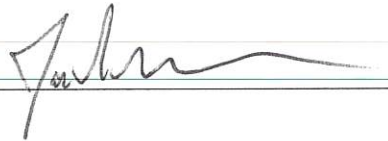
Responsible Party: JBCM Land, LLC

Mailing Address: 138 Bevers Road

City, State, Zip: Liberty Hill, TX 78642

Telephone: 512-778-6577

Signature of Responsible Party



Date

6/3/24

Engineer: John J. Teague III, P.E.

Firm: Eckermann Engineering, Inc.

TBPELS No. F-10496

Mailing Address: 921 Main St.

City, State, Zip: Liberty Hill, TX 78642

Telephone: 512-960-1098

ATTACHMENT O – PILOT-SCALE FIELD TESTING PLAN

All BMPs comply with the Edwards Aquifer Rules per RG-348; no field testing is required.

ATTACHMENT P – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

No surface streams are present which require additional measures.

**TEMPORARY STORMWATER SECTION
(TCEQ-0602)
ATTACHMENTS A-J**

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: John Teague, PE - Eckermann Engineering, Inc.

Date: 06/03/2024

Signature of Customer/Agent:



Regulated Entity Name: Amifast Industrial Park Lots 5 and 7

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 of the San Gabriel River

Temporary Best Management Practices (TBMPs)

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

- 7. ☒ **Attachment D – Temporary Best Management Practices and Measures.** TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

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

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.

- 18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

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

ATTACHMENT A
SPILL RESPONSE ACTIONS

Spills will be prevented utilizing Best Management Practices such as proper material storage, handling, and disposal practices. However, despite such efforts, a spill may occur on site. If a spill occurs, the following procedures will be utilized.

- ***Stop the spill, if possible.*** This can include shutting off power to a pump, righting an overturned container, or plugging a hole in a damaged container.
- ***Contain the spill, safely.*** Spill containment can be accomplished using a variety of materials and methods such as the use of absorbents (i.e. sawdust, Oil Dri, rags, soil, polypropylene pads or booms, etc.) to dike the area around the spill, or placing a leaking container inside one which is not leaking. Spill containment should only be attempted if it is safe to do so. Proper safety equipment such as gloves and eye protection should be used as directed on the Material Safety Data Sheet for the spilled material.
- ***Report the spill, if necessary.*** Certain quantities of hazardous or toxic materials such as pesticides, paint thinners, gasoline, etc. are required by Federal Law to be reported to the National Response Center (NRC) at 1-800-424-8802 as soon as you have knowledge of the spill. Since most of the quantities which require reporting to the NRC are larger than that found on a typical construction site, spill reporting to the State or Local authorities is more likely. When in doubt, report the spill.

The reporting requirements which may apply to the sites covered in this SWPPP are:

Texas Commission on Environmental Quality (TCEQ)
1-800-832-8224

Reportable quantities can be determined by accessing the webpage at the following link: https://www.tceq.texas.gov/response/spills/spill_rq.html TCEQ requires reporting of spills of 25 gallons or greater, especially those which might impact a waterway.

- ***Clean the spill up, properly.*** Spill cleanup should be performed in accordance with applicable regulations or according to the manufacturer's recommendations on the Material Safety Data Sheet. In most cases, proper spill cleanup is to use a dry method such as absorbing the spill and containerize for disposal via a licensed disposal company. For non-hazardous and non-toxic materials this may be through your solid waste disposal service with prior approval.
- ***Fill in table on next page.***

The SWPPP must be modified within 14 days of a release to provide a description of the spill, the circumstances leading to the spill, and the date of the spill. Spill clean-up materials, methods, and additional Best Management Practices addressing spill prevention should also be included.

[illegible]

ATTACHMENT B
POTENTIAL SOURCES OF CONTAMINATION

Potential Sources of Contamination associated with this project may include:

1. Oil and grease from runoff pollutants associated with paving operations,
2. Asphalt emulsion from pavement just after construction is complete,
3. Construction equipment pollutants including hydraulic fluid, machine oil, and diesel,
4. Sediment from earth moving activities, and
5. Construction materials such as wood, paint, fertilizers, and concrete.

ATTACHMENT C
SEQUENCE OF MAJOR ACTIVITIES

1. Install construction fencing, stabilized construction entrance, erosion controls, and tree protection fencing per approved erosion and sedimentation control/tree protection plan. (Area Disturbed = 2.96 acres)
2. The contractor shall arrange and coordinate acceptable meeting times for an on-site pre-construction meeting with the Owner, Project Engineer, relevant contractors, and the City Environmental Inspector. The Environmental Inspector shall be contacted 72 hours prior to the required on-site preconstruction meeting. (Area Disturbed = 0.0 acres)
3. Begin site clearing/demolition. Silt Fence and SCE must be installed prior to and maintained during operations. (Area Disturbed = 2.96 acres)
4. Rough grade the site and construct drainage swales in accordance with plans and specifications. Silt Fence, Rock Berms, and SCE must be maintained during operations. (Area Disturbed = 2.96 acres)
5. Install utility improvements. Silt Fence, Rock Berms, Inlet Protection, and SCE must be maintained during operations. (Area Disturbed = 0.50 acres)
6. Construct building foundations. Silt Fence, Rock Berms, Inlet Protection, and SCE must be maintained during operations. (Area Disturbed = 0.40 acres)
7. Construct all-weather driving surface. Silt Fence, Rock Berms, Inlet Protection, and SCE must be maintained during operations. (Area Disturbed = 0.50 acres)
8. Construct building. Silt Fence, Rock Berms, Inlet Protection, and SCE must be maintained during operations. (Area Disturbed = Constructed on building foundations listed in Item 6)
9. Complete final grading, drainage, and pavement. Silt Fence, Rock Berms, and Inlet Protection must be maintained during operations. (Area Disturbed = 1.50 acres)
10. Hydromulch or sod all disturbed areas per landscape plan and general site cleanup. Silt Fence, Rock Berms, and Inlet Protection must be maintained during operations.
11. Final clearing of erosion and sedimentation controls and storm drain structures.
12. City Environmental inspector visits site and issues certificate of acceptance only if all construction is in substantial conformance to the plans.

Total Disturbed Area = 2.96 acres

*Note: Areas identified above in the sequence of construction may overlap and should not be totaled.

ATTACHMENT D

TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

- Silt Fence – Approximately 1,325 linear feet of silt fence will be installed along the property line or limits of construction prior to the start of demolition or construction activities. The silt fence will prevent total suspended solids from leaving the site via sheet flow.
- Stabilized Construction Entrance – One (1) stabilized construction entrance will be installed at the driveway into the site prior to the start of construction activities. The construction entrance will be located as shown on the erosion control plan and will prevent the tracking of mud onto the public road.
- Rock Berm – Approximately five (5) rock berms will be installed along the drainage channels and at headwalls to prevent erosion during construction.
- Inlet Protection – Inlet protection will be installed on all proposed inlets while site construction activities are active.
- Concrete Washout – A concrete washout area to be located near the Stabilized Construction Entrance.

All of the above listed temporary BMPs will be removed upon the completion of site construction activities and the establishment of permanent stabilization on the site.

ATTACHMENT E
REQUEST TO TEMPORARILY SEAL A FEATURE

(Not Applicable)

ATTACHMENT F
STRUCTURAL PRACTICES

All on-site drainage during construction will flow through the proposed temporary BMPs listed in Attachment D. Upgradient runoff will flow through the site from 0.31 acres of the railroad right-of-way located to the north of the project site. Any offsite runoff entering an area of disturbance within the limits of construction on the site will flow through the proposed temporary BMPs listed in Attachment D. Permanent vegetation will be established in all disturbed areas upon completion of grading and construction activities.

ATTACHMENT G
DRAINAGE AREA MAPS
(EXISTING AND PROPOSED)
(REFER TO CONSTRUCTION PLANS UNDER SEPARATE COVER)

ATTACHMENT H
TEMPORARY SEDIMENT POND PLANS AND CALCULATIONS

(Not Applicable)

ATTACHMENT I
INSPECTION AND MAINTENANCE FOR BMPs

PROJECT NAME: 138 Bevers Road Warehouse Expansion – Liberty Hill, TX
ADDRESS: 138 Bevers Road
CITY, STATE: Liberty Hill, TX

SILT FENCE

- Inspections: Inspections shall be made weekly or after each rainfall event.
- Repair and Replacement: Repair or replacement of torn fabric shall be made promptly as needed or a second line of fencing parallel to the torn section shall be installed. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
- Sediment Removal: Accumulated silt shall be removed when it reaches a depth of 150mm (6 inches). The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

ROCK BERM

- Inspections: Inspections shall be made weekly or after each rainfall event. Daily inspections shall be made on high-service rock berms or rock berms within streambeds.
- Repair and Replacement: Repair any loose wire sheathing as needed. The stone and/or fabric core-woven sheathing shall be replaced or reshaped when the structure ceases to function as intended, due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- Sediment Removal: Accumulated silt shall be removed when it reaches a depth of 150mm (6 inches). The silt shall be disposed of on an approved site and in such a manner that will not contribute to additional siltation.

Rock berms shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

INLET PROTECTION

- Inspections: Inspections shall be made weekly or after each rainfall event.
- Repair and Replacement: Repair or replacement shall be made promptly as needed. Check placement of the inlet protection to prevent gaps between the device and curb/inlet. Replace/patch torn or missing filter fabric.
- Sediment Removal: Accumulated silt shall be removed when it reaches a depth of 75mm (3 inches). The silt shall be disposed of on an approved site and in a manner that will not contribute to additional siltation.

Inlet Protection shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.

STABILIZED CONSTRUCTION ENTRANCE

- Maintenance: The entrance shall be maintained in a condition that will prevent tracking or flowing of sediment onto public roadway. This may require periodic top dressing with additional stone as conditions demand, as well as repair and clean out of any measure devices used to trap sediment.
- All sediment that is spilled, dropped, washed or tracked onto public roadway must be removed immediately.
- When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it should be done on an area stabilized with crushed stone that drains into another approved BMP.

The stabilized construction entrance will be removed once the driveway to the proposed site is complete.

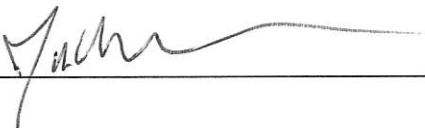
CONCRETE WASHOUT AREAS

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

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

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

Responsible Party: JBCM Land, LLC
Mailing Address: 138 Bevers Road
City, State: Liberty Hill, TX Zip: 78642
Telephone: (512) 778-6577 Fax: N/A

Signature of Responsible Party  Date 6/3/24

ATTACHMENT J

SCHEDULE FOR INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Interim stabilization shall be achieved through the temporary erosion controls. All disturbed pervious areas shall receive permanent hydromulch or sod after final grading is completed or if construction activities stop for more than 14 days. The remaining disturbed areas will be stabilized by the installation of pavement or building structures. Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days.

COPY OF NOTICE OF INTENT (NOI)



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

IMPORTANT INFORMATION

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

Use the NOI Checklist to ensure all required information is completed correctly.
Incomplete applications delay approval or result in automatic denial.

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

ePERMITS

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

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

APPLICATION FEE AND PAYMENT

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

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

Provide your payment information for verification of payment:

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

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

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

If Yes, provide the authorization number here: TXR15

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

SECTION 1. OPERATOR (APPLICANT)

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

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

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

JBCM Land, LLC

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

Prefix (Mr. Ms. Miss): Mr.

First and Last Name: Jack Bevers Suffix:

Title: Managing Partner Credentials:

Phone Number: 512-778-6577 Fax Number:

E-mail: jack.bevers@afinitas.com

Mailing Address: 138 Bevers Road

City, State, and Zip Code: Liberty Hill, TX 78642

Mailing Information if outside USA:

Territory:

Country Code:

Postal Code:

- d) Indicate the type of customer:

- | | |
|---------------------------------------------------------|---------------------------------------------|
| <input type="checkbox"/> Individual | <input type="checkbox"/> Federal Government |
| <input checked="" type="checkbox"/> Limited Partnership | <input type="checkbox"/> County Government |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government |
| <input type="checkbox"/> Trust | <input type="checkbox"/> City Government |
| <input type="checkbox"/> Sole Proprietorship (D.B.A.) | <input type="checkbox"/> Other Government |
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Other: ____ |
| <input type="checkbox"/> Estate | |

- e) Is the applicant an independent operator? ☒ Yes ☐ No

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

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

☒ 0-20

☐ 251-500

☐ 21-100

☐ 501 or higher

☐ 101-250

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

State Franchise Tax ID Number: 3203347140

Federal Tax ID: 20-3334714

Texas Secretary of State Charter (filing) Number: 800844120

DUNS Number (if known):

SECTION 2. APPLICATION CONTACT

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

☒ Yes, go to Section 3

☐ No, complete this section

Prefix (Mr. Ms. Miss):

First and Last Name: Suffix:

Title: Credential:

Organization Name:

Phone Number: Fax Number:

E-mail:

Mailing Address:

Internal Routing (Mail Code, Etc.):

City, State, and Zip Code:

Mailing information if outside USA:

Territory:

Country Code: Postal Code:

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

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

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

- b) Name of project or site (the name known by the community where it's located): 138 Bevers Road Warehouse
- c) In your own words, briefly describe the type of construction occurring at the regulated site (residential, industrial, commercial, or other):
Light Industrial Warehouse
- d) County or Counties (if located in more than one): Williamson
- e) Latitude: 30.6794 Longitude: -97.9375
- f) Site Address/Location

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

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

Section A:

Street Number and Name: 138 Bevers Road

City, State, and Zip Code: Liberty Hill, TX 78642

Section B:

Location Description: ____

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

Zip Code where the site is located: ____

SECTION 4. GENERAL CHARACTERISTICS

- a) Is the project or site located on Indian Country Lands?
 - ☐ Yes, do not submit this form. You must obtain authorization through EPA Region 6.
 - ☒ No
- b) Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
 - ☐ Yes. Note: The construction stormwater runoff may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA Region 6.
 - ☒ No
- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? 1541
- d) What is the Secondary SIC Code(s), if applicable?
- e) What is the total number of acres to be disturbed? 3.2
- f) Is the project part of a larger common plan of development or sale?
 - ☒ Yes

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

g) What is the estimated start date of the project? 7/1/2024

h) What is the estimated end date of the project? 1/1/2025

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

j) What is the name of the first water body(ies) to receive the stormwater runoff or potential runoff from the site? South Fork San Gabriel River

k) What is the segment number(s) of the classified water body(ies) that the discharge will eventually reach? 1250

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

☒ Yes ☐ No

If Yes, provide the name of the MS4 operator: City of Liberty Hill

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

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

☒ Yes, complete the certification below.

☐ No, go to Section 5

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

SECTION 5. NOI CERTIFICATION

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

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

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

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

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

SECTION 6. APPLICANT CERTIFICATION SIGNATURE

Operator Signatory Name: Jack Bevers

Operator Signatory Title: Managing Principal

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

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

Signature (use blue ink): _____ Date: _____

NOTICE OF INTENT CHECKLIST (TXR150000)

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

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

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

APPLICATION FEE

If paying by check:

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

If using ePay:

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

RENEWAL

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

OPERATOR INFORMATION

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

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

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

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

GENERAL CHARACTERISTICS

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

CERTIFICATION

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

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

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):

By Regular Mail:

TCEQ
Stormwater Processing Center (MC228)
P.O. Box 13087
Austin, Texas 78711-3087

By Overnight or Express Mail:

TCEQ
Stormwater Processing Center (MC228)
12100 Park 35 Circle
Austin, TX

Application Fee:

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

Mailed Payments:

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

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

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

TCEQ Contact List:

Application – status and form questions:	512-239-3700, swpermit@tceq.texas.gov
Technical questions:	512-239-4671, swgp@tceq.texas.gov
Environmental Law Division:	512-239-0600
Records Management - obtain copies of forms:	512-239-0900
Reports from databases (as available):	512-239-DATA (3282)
Cashier's office:	512-239-0357 or 512-239-0187

Notice of Intent Process:

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

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

above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.

- **Acknowledgment of Coverage:** An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit.

or

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

General Permit (Your Permit)

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

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

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

Change in Operator

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

TCEQ Central Registry Core Data Form

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

For existing customers and sites, you can find the Customer Number and Regulated Entity Number by entering the following web address into your internet browser:

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

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

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

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

Section 1. OPERATOR (APPLICANT)

a) Customer Number (CN)

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

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

b) Legal Name of Applicant

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

c) Contact Information for the Applicant (Responsible Authority)

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

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

The phone number should provide contact to the applicant.

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

d) Type of Customer (Entity Type)

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

Individual

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

Partnership

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

Trust or Estate

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

Sole Proprietorship (DBA)

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

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

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

Corporation

A customer that meets all of these conditions:

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

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

Government

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

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

Other

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

e) Independent Entity

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

f) Number of Employees

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

g) Customer Business Tax and Filing Numbers

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

State Franchise Tax ID Number

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

Federal Tax ID

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

TX SOS Charter (filing) Number

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

DUNS Number

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

Section 2. APPLICATION CONTACT

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

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

a) Regulated Entity Number (RN)

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

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

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

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

b) Name of the Project or Site

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

c) Description of Activity Regulated

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

d) County

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

e) Latitude and Longitude

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

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

f) Site Address/Location

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

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

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

Section 4. GENERAL CHARACTERISTICS

a) Indian Country Lands

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

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

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

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the RRC's jurisdiction must be authorized by the EPA and the RRC, as applicable. Activities under RRC jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the RRC; and a gathering, transmission, or distribution pipeline that will transport crude oil or

natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The RRC also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the RRC. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the RRC prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

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

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

c) Primary Standard Industrial Classification (SIC) Code

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

Common SIC Codes related to construction activities include:

- 1521 - Construction of Single Family Homes
- 1522 - Construction of Residential Buildings Other than Single Family Homes
- 1541 - Construction of Industrial Buildings and Warehouses
- 1542 - Construction of Non-residential Buildings, other than Industrial Buildings and Warehouses
- 1611 - Highway and Street Construction, except Highway Construction
- 1622 - Bridge, Tunnel, and Elevated Highway Construction
- 1623 - Water, Sewer, Pipeline and Communications, and Power Line Construction

For help with SIC Codes, enter the following link into your internet browser:

<http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Local Government Assistance Section at 800-447-2827 for assistance.

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave this blank if not applicable. For help with SIC Codes, enter the following link into your internet browser:

<http://www.osha.gov/pls/imis/sicsearch.html> or you can contact the TCEQ Small Business and Environmental Assistance Section at 800-447-2827 for assistance.

e) Total Number of Acres Disturbed

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

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

f) Common Plan of Development

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

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

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

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

g) Estimated Start Date of the Project

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

h) Estimated End Date of the Project

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

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

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

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

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

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

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

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

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

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

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

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

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

l) Discharge into MS4 – Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at 512-239-4671.

m) Discharges to the Edwards Aquifer Recharge Zone and Certification

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

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

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

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

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-

2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

Section 5. NOI CERTIFICATION

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

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

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

b) Certification of Legal Name

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

c) Understanding of Notice of Termination

A permittee shall terminate coverage under the Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

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

Section 6. APPLICANT CERTIFICATION SIGNATURE

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

If you are a corporation:

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

procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

If you are a municipality or other government entity:

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

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

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

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

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

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

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

Texas Commission on Environmental Quality General Permit Payment Submittal Form

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

Instructions:

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

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

By Regular U.S. Mail

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

By Overnight or Express Mail

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

Fee Code: GPA General Permit: TXR150000

1. Check or Money Order No:

2. Amount of Check/Money Order:

3. Date of Check or Money Order:

4. Name on Check or Money Order:

5. NOI Information:

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

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

Project/Site (RE) Name:

Project/Site (RE) Physical Address:

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

AGENT AUTHORIZATION FORM
(TCEQ-0599)

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

I Jack Bevers
Print Name

Managing Partner
Title ~~Owner/President/Other~~

of JBCM LAND, LLC
Corporation/Partnership/Entity Name

have authorized John J. Teague III, PE
Print Name of Agent/Engineer

of Eckermann Engineering, Inc.
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:

[Signature]
Applicant's Signature

3/27/24
Date

THE STATE OF Texas §

County of Williamson

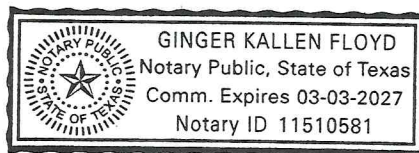
BEFORE ME, the undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 27th day of March 2024

[Signature]
NOTARY PUBLIC

Ginger Kallen Floyd
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 3-3-27



APPLICATION FEE FORM
(TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Amifast Industrial Park Lots 5 and 7

Regulated Entity Location: 138 Bevers Road, Liberty Hill, Texas 78642

Name of Customer: JBCM Land, LLC

Contact Person: Jack Bevers

Phone: 512-778-6577

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays

☐ Travis

☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	5.364 Acres	\$ 5,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: John F. Deague III

Date: 04/17/2024

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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

CORE DATA FORM
(TCEQ-10400)



TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

[Follow this link to search for CN or RN numbers in Central Registry**](#)

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
JBCM Land, LLC			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
800844120	3203347140	20-3334714	
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:	138 Bevers Road		
	City	Liberty Hill	State TX ZIP 78642 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
		jack.bevers@afinitas.com	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(512) 778-6577		() -	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Amifast Industrial Park, Lots 5 and 7	

23. Street Address of the Regulated Entity: (No PO Boxes)	138 Bevers Road							
	City	Liberty Hill	State	TX	ZIP	78642	ZIP + 4	
24. County	Williamson							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:								
26. Nearest City					State	Nearest ZIP Code		
27. Latitude (N) In Decimal:				28. Longitude (W) In Decimal:				
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	40	45.65	97	56	14.86			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
1541			327390					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Precast concrete infrastructure equipment and services								
34. Mailing Address:	138 Bevers Road							
	City	Liberty Hill	State	TX	ZIP	78642	ZIP + 4	
35. E-Mail Address:	jack.bevers@afinitas.com							
36. Telephone Number	37. Extension or Code		38. Fax Number (if applicable)					
(512) 778-6577			() -					

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 checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

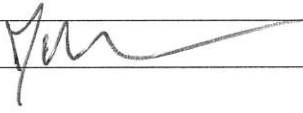
40. Name:	John Teague, PE Eckermann Engineering, Inc.	41. Title:	Operations Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 820-4027		() -	john@eckermannengineering.com

SECTION V: Authorized Signature

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

Company:	JBCM Land, LLC	Job Title:	Managing Partner
Name (In Print):	Jack Bevers	Phone:	(512) 778- 6577

Signature:



Date:

6/3/24

2/16/2024 9:05 AM

C:\USERS\WILLIAMSWITH\EEI\SERVER DROPPROX\EEI FILES\2023\JOBS\20309 - BEVER'S - 138 BEVER'S ROAD WAREHOUSE\DWGS\SHEETS\20309_CVSH.DWG

LEGAL DESCRIPTION:

LOTS 5 & 7 OUT OF THE AMIFAST INDUSTRIAL PARK, A SUBDIVISION OF 15.96 ACRES SITUATED IN THE RICHARD WEST SURVEY ABSTRACT NO. 643 LIBERTY HILL, WILLIAMSON COUNTY, TEXAS AS RECORDED IN CABINET Z, SLIDE 132 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY TEXAS, DOCUMENT NO. 2004077850 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS.

BENCHMARKS:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37
VERTICAL DATUM: (NAVD 88)

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01
VERTICAL DATUM: (NAVD 88)

FLOODPLAIN NOTE:

THE SUBJECT TRACT IS SHOWN TO BE IN UNSHADED FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 484891C0240F, DATED DECEMBER 20, 2019.

ZONING NOTE:

THIS SITE IS LOCATED WITHIN THE CITY OF LIBERTY HILL.
ZONING CLASSIFICATION:
REZONING ORDINANCE NO 2024-O-007
LOT 7 - LIGHT INDUSTRIAL
LOT 5 - LIGHT INDUSTRIAL
FUTURE LAND USE: MODERN INDUSTRY

EDWARDS AQUIFER NOTE:

THE PROJECT AREA IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE AND A CONTRIBUTING ZONE PLAN WILL BE SUBMITTED TO TCEQ FOR COMPLIANCE.

OSSF NOTE:

EXISTING OSSF SERVICE SHALL REMAIN. NO ADDITIONAL WATER OR WASTEWATER SERVICE/MODIFICATIONS ARE PROPOSED AS PART OF THIS PROJECT.

PROPOSED USE:

LIGHT INDUSTRIAL/WAREHOUSE

ACREAGE:

TOTAL: 5.364 ACRES
LOT 5: 2.246 ACRES
LOT 7: 3.118 ACRES

TOTAL IMPERVIOUS COVER: 1.50 ACRES (65,340 SF)

BUILDING IMPERVIOUS COVER: 0.88 ACRES (37,474 SF)

ASSOCIATED PROJECT CASE NUMBERS:

2023-1-CPA
2023-1-Z

OWNER:

AFINITAS INC.
138 BEVER'S ROAD
LIBERTY HILL, TEXAS 78642
[TEL] (512) 778-6577

ARCHITECT:

COVEY PLANNING & LANDSCAPE ARCHITECTURE
800 S AUSTIN AVENUE
GEORGETOWN, TX 78626
[TEL] (512) 887-5311

SURVEYOR:

CUPLIN & ASSOCIATES, INC.
1500 OLLIE LANE
MARBLE FALLS, TX 78654
[TEL] (325) 338-3300

CONTRACTOR:

TBD

UTILITY SERVICE PROVIDERS:

SANITARY SEWER
OSSF

WATER
CITY OF LIBERTY HILL
[TEL] (512) 778-5449

ELECTRIC
PEDERNALES ELECTRIC CO-OP
[TEL] (512) 778-5470

CIVIL ENGINEER

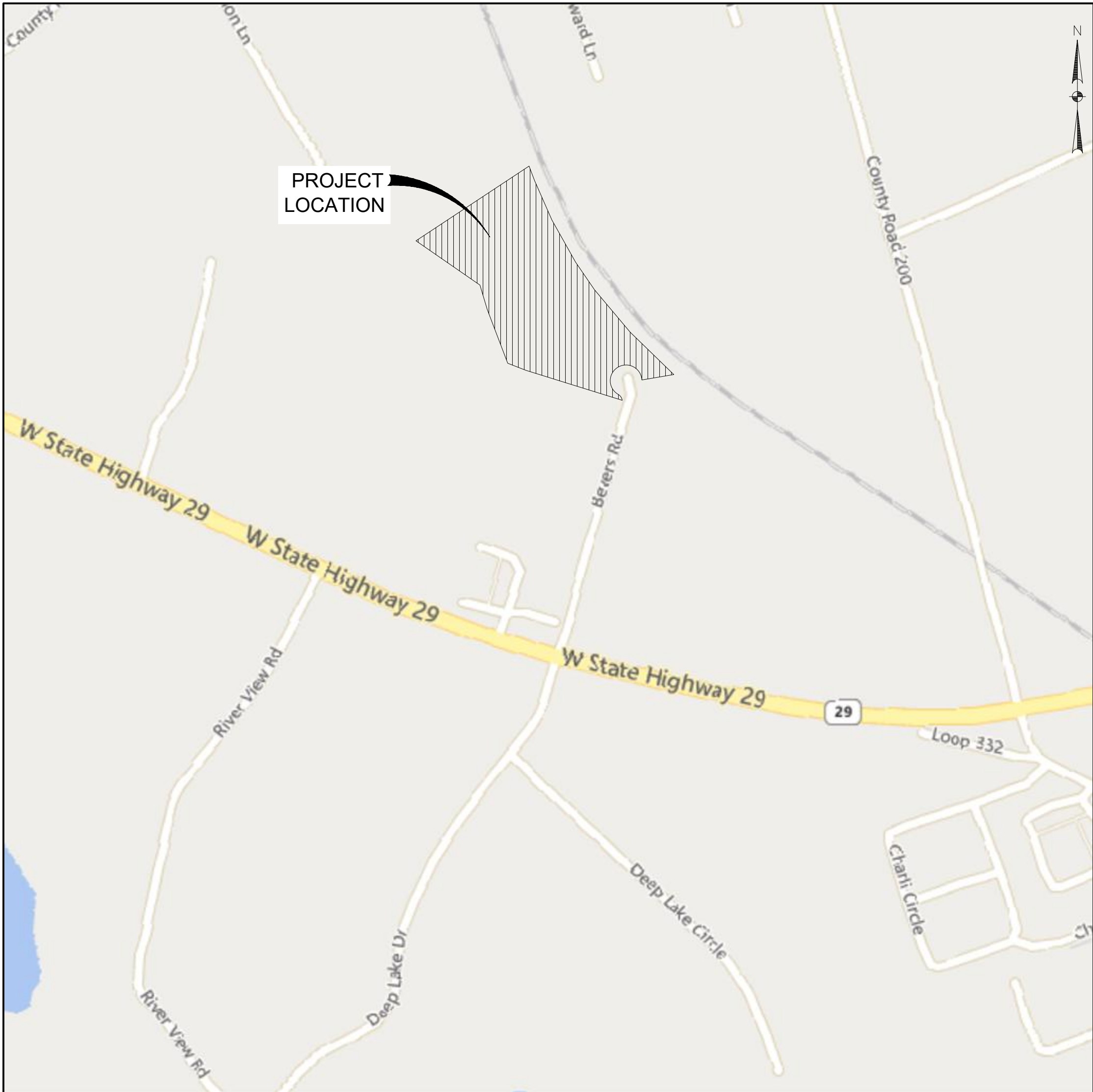
E ECKERMANN
ENGINEERING, INC.

921 MAIN STREET
LIBERTY HILL, TEXAS 78642
PHONE: 512-960-1098

TBPE FIRM REGISTRATION NO. F-10496

138 BEVER'S ROAD WAREHOUSE EXPANSION

FOR
AFINITAS INC.
138 BEVER'S ROAD
LIBERTY HILL, TEXAS, 78642
2024-19-SDP



SHEET INDEX

Sheet Number

Sheet Title

C.01	COVER SHEET
C.02	GENERAL NOTES
C.03	SUBDIVISION PLAT
C.04	SUBDIVISION PLAT
C.05	EXISTING CONDITIONS & DEMOLITION PLAN
C.06	SITE PLAN
C.07	DIMENSIONAL CONTROL & PAVING PLAN
C.08	GRADING PLAN
C.09	EXISTING DRAINAGE AREA MAP
C.10	PROPOSED DRAINAGE AREA MAP
C.11	SUBBASIN DRAINAGE AREA MAP
C.12	STORM DRAIN PLAN
C.13	DETENTION POND PLAN
C.14	WATER QUALITY CALCULATIONS & DETAILS
C.15	UTILITY PLAN
C.16	EROSION CONTROL & SEDIMENTATION PLAN
C.17	CONSTRUCTION DETAILS
C.18	STORM DETAILS
C.19	EROSION CONTROL & SEDIMENTATION DETAILS
E2.1	SITE PHOTOMETRIC PLAN
TP-00	TREE PROTECTION AND MITIGATION REFERENCE PLAN
TP-01	TREE PROTECTION AND MITIGATION PLAN
LS-00	LANDSCAPE REFERENCE PLAN
LS-01	LANDSCAPE PLAN, SCHEDULES, AND NOTES
LS-02	LANDSCAPE PLAN AND SCHEDULES
LS-03	LANDSCAPE DETAILS
LS-04	TECHNICAL SPECIFICATIONS
LS-05	TECHNICAL SPECIFICATIONS
LS-06	TECHNICAL SPECIFICATIONS
LS-07	TECHNICAL SPECIFICATIONS

"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."

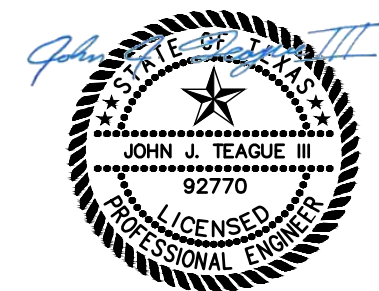
APPROVED BY:

JENNIFER GLAESS, P.E., CITY ENGINEER DATE

PAUL BRANDENBURG, CITY MANAGER DATE

CRYSTAL MANCILLA, MAYOR DATE

ELAINE SIMPSON, CITY SECRETARY DATE



5/20/2024

C.01

Sheet 1 OF 19

No.	Date	Revision Description	App.

138 BEVER'S ROAD WAREHOUSE EXPANSION

5/20/2024 11:26:22 AM

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- CITY OF LIBERTY HILL GENERAL NOTES:
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ROUND ROCK STANDARD SPECIFICATIONS MANUAL.
 - 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.
 - 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 REVISING THE PLANS AS APPROPRIATE.
 - MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL PAVING CONSTRUCTION.
 - 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).
 - 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.
 - PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENE 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.
 - 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.
 - THE LIBERTY HILL CITY COUNCIL SHALL NOT BE PETITIONED FOR ACCEPTANCE UNTIL ALL NECESSARY EASEMENT DOCUMENTS HAVE BEEN SIGNED AND RECORDED.
 - 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.
 - PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
 - ALL OFF-STREET PARKING AREAS, DRIVE AISLES, INTERNAL ROADWAYS, AND LOADING AREAS SHALL BE KEPT CLEAR OF DIRT, REFUSE, AND DEBRIS AT ALL TIMES.
 - ALL OFF-STREET PARKING AREAS, DRIVE AISLES, INTERNAL ROADWAYS, AND LOADING AREAS SHALL BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED INTERNATIONAL PROPERTY MAINTENANCE CODE.
 - EACH REQUIRED OFF-STREET PARKING SPACE AND OFF-STREET PARKING AREA SHALL BE IDENTIFIED BY SURFACE MARKINGS AT LEAST FOUR (4) INCHES IN WIDTH. MARKINGS SHALL BE VISIBLE AT ALL TIMES. SUCH MARKINGS SHALL BE ARRANGED TO PROVIDE FOR ORDERLY AND SAFE LOADING, UNLOADING, PARKING, AND STORAGE OF VEHICLES.
 - THE MAINTENANCE OF THE DRAINAGE AND DENTION FACILITIES WITHIN LOTS 5 AND 7 SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER(S)
 - BENCHMARKS UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS:
BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218625.57
E: 3049538.37
VERTICAL DATUM: (NAVD 88)
BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01
VERTICAL DATUM: (NAVD 88)
- TRENCH SAFETY NOTES:
- IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U. S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ALL TRENCHES OVER 5 FEET IN DEPTH IN EITHER HARD 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.
 - 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 SO AS TO REQUIRE NO MORE THAN 25 FEET OF LATERAL TRAVEL.
 - 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.
- STREET AND DRAINAGE NOTES:
- 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 512-778-5449 (INSPECTIONS).
 - 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.
 - 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.
 - 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.
 - 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.
 - ALL R.C.P. SHALL BE MINIMUM CLASS III.
 - GEOTECHNICAL INVESTIGATION PERFORMED BY CRI LABS, FEBRUARY 16, 2024. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE FOR SUBSURFACE INFORMATION REGARDING THIS PROJECT. AT ITS EXPENSE THE CONTRACTOR IS ENCOURAGED TO MAKE ADDITIONAL SUBSURFACE INVESTIGATIONS.
 - 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.
- WATER AND WASTEWATER NOTES:
- PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 200), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
 - PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC (AWWA C-900, MIN. CLASS 150), OR DUCTILE IRON (AWWA C-100, MIN. CLASS 200). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D2241 OR D3034, MAX. DR-26), DUCTILE IRON (AWWA C-100, MIN. CLASS 200).
 - UNLESS OTHERWISE ACCEPTED BY THE CITY ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42" MIN., AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MIN. OF 30" BELOW SUBGRADE.
 - ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-100, MIN. CLASS 200).
 - ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL ACCEPTED BY THE CITY ENGINEER.
 - THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR AT 512-778-5449 TO COORDINATE UTILITY TIE-INS AND NOTIFY HIM AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
 - ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON RING AND COVER. ALL MANHOLES LOCATED OUTSIDE OF THE PAVEMENT SHALL HAVE BOLTED COVERS. TAPPING OF FIBERGLASS MANHOLES SHALL NOT BE ALLOWED.
 - THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
 - LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH THE WATER & WASTEWATER SUPERINTENDENT. TELEPHONE 512-778-5449.
 - THE CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF LIBERTY HILL PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF LIBERTY HILL TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SALT DEVICES PRIOR TO FINAL ACCEPTANCE BY THE CITY OF LIBERTY HILL.
 - SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY

- PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN CONTRACTOR'S PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF LIBERTY HILL NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY. THE CONTRACTOR SHALL SUPPLY A CHECK OR MONEY ORDER, PAYABLE TO THE CITY OF LIBERTY HILL, TO COVER THE FEE CHARGED FOR TESTING EACH WATER SAMPLE. CITY OF LIBERTY HILL FEE AMOUNTS MAY BE OBTAINED BY CALLING THE PLANNING & DEVELOPMENT DEPARTMENT AT 512-778-5449 .
- THE CONTRACTOR, AT CONTRACTOR'S EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF LIBERTY HILL PERSONNEL.
 - THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY OF INSPECTOR AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
 - THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CITY OF LIBERTY HILL.
 - ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
 - ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY MARKED AS FOLLOWS:
WATER SERVICE "W" ON TOP OF CURB
WASTEWATER SERVICE "S" ON TOP OF CURB
VALVE "V" ON FACE OF CURB.
 - TOOLS FOR MARKING THE CURB SHALL BE PROVIDED BY THE CONTRACTOR. OTHER APPROPRIATE MEANS OF MARKING SERVICE AND VALVE LOCATIONS SHALL BE PROVIDED IN AREAS WITHOUT CURBS. SUCH MEANS OF MARKING SHALL BE AS SPECIFIED BY THE ENGINEER AND ACCEPTED BY THE CITY OF LIBERTY HILL.
 - CONTACT THE CITY OF LIBERTY HILL WATER & WASTEWATER SUPERINTENDENT AT 512-778-5449 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
 - THE CITY OF LIBERTY HILL FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS PRIOR TO TESTING OF ANY BUILDING SPRINKLER PIPING IN ORDER THAT THE FIRE DEPARTMENT MAY MONITOR SUCH TESTING.
 - SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

SIEVE SIZE	PERCENT RETAINED
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100
 - THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M.
 - ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 317, AS APPLICABLE. WHENEVER TCEQ AND CITY OF LIBERTY HILL SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.
- TRAFFIC MARKING NOTES:
- ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
 - 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.
- EROSION AND SEDIMENTATION CONTROL NOTES:
- EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF LIBERTY HILL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
 - ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY ARE APPLIED.
 - SILT FENCES, ROCK BERM, 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.
 - 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.
 - 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.
- ADDITIONAL GENERAL NOTES
- CONTRACTOR SHALL CALL THE ONE CALL CENTER (811) AND THE CITY OF LIBERTY HILL (512-778-5449) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET R.O.W.
 - CONTRACTOR TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING EXCESS AND WASTE MATERIAL, INCLUDING METHODS OF HANDLING AND DISPOSAL.
 - CONTRACTOR TO COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
 - LOCATION OF EXISTING UTILITIES SHOWN ON PLANS WAS COMPILED FROM RECORD INFORMATION. NO WARRANTY IS IMPLIED AS TO THE ACTUAL LOCATION OF EXISTING UTILITIES.
 - WHEN UNLOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING, OR A BREAK LOCATED IN THE LINE, OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
 - CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS, AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR TO CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES. (NO SEPARATE PAY)
 - THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR IS TO ENSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED.
 - THESE PLANS, PREPARED BY ECKERMANN ENGINEERING, INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF ECKERMANN ENGINEERING REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR IS TO PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY HOUSE BILLS 662 AND 665 ENACTED BY THE TEXAS LEGISLATURE IN THE 70TH LEGISLATURE, REGULAR SESSION.
 - TRAFFIC CONTROLS TO BE CONTRACTOR'S RESPONSIBILITY AND INSTALLED IN ACCORDANCE WITH THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
 - CONTRACTOR TO EXERCISE CAUTION DURING CONSTRUCTION NEAR AND AROUND GAS LINES. NOTIFY GAS COMPANY 24 HOURS PRIOR TO CONSTRUCTION.
 - NO BLASTING IS ALLOWED ON THIS PROJECT.
 - MAKE CONNECTION BETWEEN NEW AND EXISTING ASPHALT STREETS BY REMOVING EXISTING ASPHALT FROM END BACK UNTIL FULL DEPTH BASE AND HMAAC ARE ENCOUNTERED AND HMAAC APPEARS TO BE IN SOUND CONDITION. PROVIDE EXPANSION JOINT AND DOWELS WHERE CONNECTING EXISTING CURB TO NEW CURB.
 - A CURB LAYDOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
 - UNLESS OCCURRING AT AN EXPANSION JOINT, MAKE CONNECTION BETWEEN NEW AND EXISTING SIDEWALK BY EXPOSING AND CLEANING A ONE-FOOT LENGTH OF WELDED WIRE REINFORCEMENT AND LAPPING NEW REINFORCEMENT ONTO THIS LENGTH.
 - TREE SURVEY, CONTOURS, AND BENCHMARK INFORMATION SUPPLIED BY OTHERS. ACTUAL LOCATION OF TREES AND ELEVATION OF NATURAL GROUND ON THE PROJECT SITE MAY VARY FROM WHAT IS DEPICTED ON THE PLAN SHEETS. ECKERMANN ENGINEERING INC., IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION REGARDING SURVEYS OR BENCHMARK LOCATIONS.
 - DEMOLITION PERMITS (IF NEEDED) ARE TO BE OBTAINED BY THE CONTRACTOR AT THEIR EXPENSE.
 - CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE FOR SUBSURFACE INFORMATION REGARDING THIS PROJECT. AT ITS EXPENSE THE CONTRACTOR IS ENCOURAGED TO MAKE ADDITIONAL SUBSURFACE INVESTIGATIONS.
 - CONTRACTOR TO FIELD VERIFY LOCATION AND FLOWLINES OF EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED UTILITY. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

- PUMPING OF STORM WATER FROM EXCAVATIONS IS PROHIBITED UNLESS THE STORM WATER IS DISCHARGED TO ENCOURAGE SHEET/OVERLAND FLOW. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS MAY BE REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
 - UNLESS OTHERWISE NOTED, STORM SEWERS TO BE HDPE.
 - ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY CONTACT A CITY OF LIBERTY HILL INSPECTOR FOR FURTHER INVESTIGATION.
- CONSTRUCTION SEQUENCING
- INSTALL CONSTRUCTION FENCING, STABILIZED CONSTRUCTION ENTRANCE, EROSION CONTROLS AND TREE PROTECTION FENCING PER APPROVED EROSION AND SEDIMENTATION CONTROL/TREE PROTECTION PLAN.
 - THE CONTRACTOR SHALL ARRANGE AND COORDINATE ACCEPTABLE MEETING TIMES FOR AN ON-SITE PRE-CONSTRUCTION MEETING WITH THE OWNER, PROJECT ENGINEER, RELEVANT CONTRACTORS, RELEVANT UTILITY REPRESENTATIVES, AND THE CITY ENGINEER/INSPECTOR.
 - BEGIN SITE CLEARING/DEMOLITION.
 - ROUGH GRADE SITE AND CONSTRUCT WATER QUALITY POND, DETENTION POND, AND DRAINAGE SWALES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
 - INSTALL UTILITY IMPROVEMENTS.
 - CONSTRUCT BUILDING FOUNDATIONS.
 - CONSTRUCT ALL-WEATHER DRIVING SURFACE.
 - CONSTRUCT BUILDING(S).
 - COMPLETE GRADING, DRAINAGE AND PAVING.
 - HYDROMULCH OR SOD ALL DISTURBED AREAS AND CLEAN UP SITE.
 - FINAL CLEARING OF EROSION AND SEDIMENTATION CONTROLS AND STORM DRAIN STRUCTURES.
 - CITY VISITS SITE AND ISSUES CERTIFICATE OF ACCEPTANCE ONLY IF ALL CONSTRUCTION IS IN SUBSTANTIAL CONFORMANCE TO THE PLANS.
- PERMANENT EROSION AND SEDIMENTATION NOTES
- (COORDINATE WITH LANDSCAPE ARCHITECT PLANS)
- EROSION CONTROL MATTING IS REQUIRED ON ALL DISTURBED AREA THAT HAVE A FINISHED GRADE IN EXCESS OF 3:1.
 - ALL DISTURBED AREAS ON THE ENTIRE PROJECT (SUCH AS AREAS THAT HAVE BEEN DRIVEN ON, GRADED, USED FOR STORAGE OF ANYTHING AND ARE NOT IN THE EXACT CONDITION THAT EXISTED PRIOR TO CONSTRUCTION) SHALL HAVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL PLACED PRIOR TO REVEGETATION.
 - TOPSOIL SHALL BE CLEAN, FRIABLE, FERTILE SOIL WITH A RELATIVELY HIGH EROSION RESISTANCE, FREE OF OBJECTIONABLE MATERIALS INCLUDING ROOTS AND ROCKS LARGER THAN ONE (1) INCH. TOPSOIL SHALL NOT CONTAIN CALICHE OR LIMESTONE. TOPSOIL SHALL BE READILY ABLE TO SUPPORT THE GROWTH OF PLANTING, SEEDING AND SODDING, AS ACCEPTED BY THE CITY.
 - THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT.
 - FERTILIZE AS RECOMMENDED BY LANDSCAPE ARCHITECT.
- TOPSOIL (OR AS SPECIFIED BY THE LANDSCAPE PLANS)
- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING,GRUBBING OR EXCAVATION).
 - TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW.
- ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO HAVE A MINIMUM OF SIX (6) INCHES OF TOPSOIL. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES. THE TOPSOIL SHALL MEET THE SPECIFICATIONS CONTAINED IN THE LANDSCAPE PLANS/SPECIFICATIONS. THE SOIL SHALL BE LOCALLY AVAILABLE NATIVE SOIL THAT MEETS THE FOLLOWING SPECIFICATIONS.
- SHALL BE FREE OF TRASH, WEEDS, DELETERIOUS MATERIALS, ROCKS, AND DEBRIS.
 - 100% SHALL PASS THROUGH A 1-5 INCH (38-MM) SCREEN.
 - SOIL TO BE LOAMY MATERIAL
- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY OFTEN BE USED, BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE STANDARDS OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT (OR AS SPECIFIED BY THE LANDSCAPE PLANS).
- TEMPORARY VEGETATIVE STABILIZATION:
- TEMPORARY VEGETATION TO BE ESTABLISHED BY SOWN SEED OR HYDROMULCH IF WORK IS STOPPED FOR 14 DAYS. CURLEX BLANKET SHALL BE UTILIZED WITH SOWN SEED ON SLOPES 3:1 OR GREATER. LANDSCAPE SPECIFICATIONS AND PLANS SHALL TAKE PRECEDENT OVER THIS PLAN IN THE EVENT OF A DISCREPANCY.
 - FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH COOL SEASON COVER CROPS (WHEAT AT 5.6 POUNDS PER ACRE, OATS AT 4.0 POUNDS PER ACRE, CEREAL RYE GRAIN AT 45 POUNDS PER ACRE), COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
 - FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE OR A NATIVE PLANT SEED MIX CONFORMING TO ITEM 6045 OR 6095 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
 - FERTILIZER SHALL BE APPLIED ONLY IF WARRANTED BY A SOIL TEST AND SHALL CONFORM TO ITEM NO. 6065 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS. FERTILIZER SHOULD NOT OCCUR WHEN RAINFALL IS EXPECTED OR DURING SLOW PLANT GROWTH OR DORMANCY. CHEMICAL FERTILIZER MAY NOT BE APPLIED IN THE CRITICAL WATER QUALITY ZONE.
 - HYDROMULCH SHALL COMPLY WITH TABLE 1, BELOW.
 - TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 11INCHES HIGH WITH A MINIMUM OF 95% TOTAL COVERAGE SO THAT ALL AREAS OF A SITE THAT RELY ON VEGETATION FOR TEMPORARY STABILIZATION ARE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
 - WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, AND STANDARD SPECIFICATION 6045 OR 6095.
- PERMANENT VEGETATIVE STABILIZATION (OR AS APPROVED BY THE OWNER)
- PERMANENT VEGETATION TO BE ESTABLISHED BY SOWN SEED OR SOD. CURLEX BLANKET SHALL BE UTILIZED WITH SOWN SEED ON SLOPES 3:1 OR GREATER. LANDSCAPE SPECIFICATIONS AND PLANS SHALL TAKE PRECEDENT OVER THIS PLAN IN THE EVENT OF A DISCREPANCY.
 - FROM SEPTEMBER 15 TO MARCH 1, SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY. IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (1/2) INCH AND THE AREA SHALL BE RE- SEEDD IN ACCORDANCE WITH TABLE 2, BELOW. ALTERNATIVELY, THE COOL SEASON COVER CROP CAN BE MIXED WITH BERMUDAGRASS OR NATIVE SEED AND INSTALLED TOGETHER, UNDERSTANDING THAT GERMINATION OF WARM-SEASON SEED TYPICALLY REQUIRES SOIL TEMPERATURES OF 60 TO 70 DEGREES.
 - FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF 45 POUNDS PER ACRE WITH A PURITY OF 95% AND A MINIMUM PURE LIVE SEED (PLS) OF 0.83. BERMUDA GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL. PERMANENT VEGETATIVE STABILIZATION CAN ALSO BE ACCOMPLISHED WITH A NATIVE PLANT SEED MIX CONFORMING TO ITEM 6045 OR 6095 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS. FERTILIZER USE SHALL FOLLOW THE RECOMMENDATION OF A SOIL TEST. SEE ITEM 6065 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS. APPLICATIONS OF FERTILIZER (AND PESTICIDE) ON CITY-OWNED AND MANAGED PROPERTY REQUIRES THE YEARLY SUBMITTAL OF A PESTICIDE AND FERTILIZER APPLICATION RECORD, ALONG WITH A CURRENT COPY OF THE APPLICATOR'S LICENSE. FOR CURRENT COPY OF THE RECORD TEMPLATE CONTACT THE CITY OF AUSTIN'S IP COORDINATOR.
 - HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
 - WATER THE SEEDED AREAS IMMEDIATELY AFTER INSTALLATION TO ACHIEVE GERMINATION AND A HEALTHY STAND OF PLANTS THAT CAN ULTIMATELY SURVIVE WITHOUT SUPPLEMENTAL WATER. APPLY THE WATER UNIFORMLY TO THE PLANTED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS OR SOIL. MAINTAIN THE SEEDBED IN A MOIST CONDITION FAVORABLE FOR PLANT GROWTH. ALL WATERING SHALL COMPLY WITH CITY CODE, AT RATES AND FREQUENCIES DETERMINE BY A LICENSED IRRIGATOR OR OTHER QUALIFIED PROFESSIONAL, AND AS ALLOWED BY THE WATER SERVICE PROVIDER AND CURRENT WATER RESTRICTIONS AND WATER CONSERVATION INITIATIVES. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN TO AT LEAST 1 1/2 INCHES HIGH WITH A MINIMUM OF 95% FOR THE NON-NATIVE MIX, AND 95% COVERAGE FOR THE NATIVE MIX SO THAT ALL

- AREAS OF A SITE THAT RELY ON VEGETATION FOR STABILITY MUST BE UNIFORMLY VEGETATED, AND PROVIDED THERE ARE NO BARE SPOTS LARGER THAN 10 SQUARE FEET.
- 3.5. WHEN REQUIRED, NATIVE PLANT SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL, ITEM 6045 AND 6095 OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
- | TABLE 2: HYDROMULCHING FOR PERMANENT VEGETATIVE STABILIZATION | | | | |
|---------------------------------------------------------------|----------------------------------------------------------------------------|-----------------|-------------------------------------------------|---------------------------------------------------------------|
| MATERIAL | DESCRIPTION | LONGEVITY | TYPICAL APPLICATIONS | APPLICATION RATES |
| BONDED FIBER MATRIX (BFM) | 80% ORGANIC DEFIBRATED FIBERS 10% TACKIFIER | 6 MONTHS | ON SLOPES UP TO 2:1 AND EROISVE SOIL CONDITIONS | 2500 TO 4000 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS) |
| FIBER REINFORCED MATRIX (FRM) | 65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER | UP TO 12 MONTHS | ON SLOPES UP TO 1:1 AND EROISVE SOIL CONDITIONS | 3000 TO 4500 LBS PER ACRE (SEE MANUFACTURERS RECOMMENDATIONS) |
- TCEQ CONTRIBUTING ZONE PLAN GENERAL CONSTRUCTION NOTES
- A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
 - THE NAME OF THE APPROVED PROJECT;
 - THE ACTIVITY START DATE; AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
 - ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON SITE.
 - NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
 - PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
 - ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
 - SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
 - LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
 - ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
 - IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMANT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
 - THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR; - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
 - THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - 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;
 - ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
 - ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
 - ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.
- ELECTRIC NOTES:
- ELECTRIC PROVIDER HAS THE RIGHT TO PRUNE AND/OR REMOVE TREES, SHRUBBERY AND OTHER OBSTRUCTIONS ON THE ENTIRE NECESSARY TO KEEP THE EASEMENTS CLEAR. ELECTRIC PROVIDER WILL PERFORM ALL TREE WORK IN COMPLIANCE WITH CITY REQUIREMENTS.
 - THE OWNER/DEVELOPER OF THIS SUBDIVISION LOT SHALL PROVIDE ELECTRIC PROVIDER WITH ANY EASEMENT AND/OR ACCESS REQUIRED IN ADDITION TO THOSE INDICATED. FOR THE INSTALLATION AND ONGOING MAINTENANCE OF OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES.
 - THE OWNER SHALL BE RESPONSIBLE FOR ANY INSTALLATION OF TEMPORARY EROSION CONTROL, REVEGETATION AND TREE PROTECTION. IN ADDITION, THE OWNER SHALL BE RESPONSIBLE FOR ANY TREE PRUNING AND TREE REMOVAL THAT IS WITHIN TEN FEET OF THE CENTER LINE OF THE OVERHEAD ELECTRICAL FACILITIES DESIGNED TO PROVIDE ELECTRIC SERVICE TO THIS PROJECT. ALL ELECTRIC WORK SHALL ALSO BE INCLUDED WITHIN THE LIMITS OF CONSTRUCTION FOR THIS PROJECT.
 - THE OWNER OF THE PROPERTY IS RESPONSIBLE FOR MAINTAINING CLEARANCES REQUIRED BY THE NATIONAL ELECTRIC SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, ELECTRIC PROVIDER REGULATIONS AND TEXAS STATE LAWS PERTAINING TO CLEARANCE WHEN WORKING IN CLOSE PROXIMITY TO OVERHEAD LINES AND EQUIPMENT. ELECTRIC PROVIDER WILL NOT RENDER ELECTRIC SERVICE UNLESS REQUIRED CLEARANCES ARE MAINTAINED. ALL COSTS INCURRED BECAUSE OF FAILURE TO COMPLY WITH THE REQUIRED CLEARANCE WILL BE CHARGED TO THE OWNER.
- FIRE DEPARTMENT NOTES:
- VERTICAL CLEARANCE REQUIRED FOR FIRE APPARATUS IS FOURTEEN FEET FOR FULL WIDTH OF ACCESS DRIVES AND ROUTES FOR INTERNAL CIRCULATION. DEAD-END FIRE APPARATUS ACCESS ROADS IN EXCESS OF 150 FEET IN LENGTH SHALL BE PROVIDED WITH APPROVED PROVISIONS FOR THE TURNING AROUND OF FIRE APPARATUS.
 - FIRE APPARATUS ACCESS ROAD SHALL BE CONTINUOUSLY MARKED BY PAINTED LINES OF RED TRAFFIC PAINT SIX INCHES (6") IN WIDTH TO SHOW THE BOUNDARIES OF THE LANE. THE WORDS "FIRE LANE - TOW AWAY ZONE" SHALL APPEAR IN FOUR INCH (4") WHITE LETTERS AT 25 FEET INTERVALS ON THE RED BORDER MARKINGS ALONG BOTH SIDES OF THE FIRE LANES. WHERE A CURB IS AVAILABLE, THE STRIPING SHALL BE ON THE VERTICAL FACE OF THE CURB.
 - KNOX BOXES SHALL BE LOCATED AT MAIN ENTRANCE AND ALL FIRE RISER ROOMS. ELECTRONIC CONTROLLED GATES SHALL HAVE KNOX KEY SWITCH AND KNOX PADLOCK (MANUAL RELEASE) OR KNOX BOX. MANUAL GATES SHALL HAVE KNOX PADLOCK OR KNOX BOX.
 - FIRE HYDRANTS SHALL HAVE NATIONAL STANDARD THREADS. FIRE HYDRANT PUMPER NOZZLES REQUIRED TO BE 5" STORZ CONNECTIONS PER WCSD NO. 4 HYDRANT DETAIL.
 - PRIOR TO CONSTRUCTION ABOVE THE SLAB, PROVIDE AN ALL-WEATHER DRIVE SURFACE THAT IS ENGINEERED TO WITHSTAND 75,000 LBS. AN ACCEPTANCE INSPECTION BY FIRE INSPECTOR IS REQUIRED.
 - PRIOR TO CONSTRUCTION ABOVE THE SLAB, THE FIRE HYDRANTS ON THE SITE PLAN ARE REQUIRED TO BE INSPECTED AND APPROVED FOR SERVICE BY THE CITY OF LIBERTY HILL.
 - THE UNDERGROUND FIRE SPRINKLER RISER LINES AND REMOTE FDC UNDERGROUND LINES WILL NEED TO BE INSTALLED BY A CONTRACTOR THAT HAS A RME-U LICENSE THROUGH THE TEXAS FIRE MARSHAL'S OFFICE.



App.	
Revisions	
No.	
Date	

ECKERMANN ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TEXAS 78642
PHONE: 512-960-1098
TBP# FRM NO. F-10496

138 BEVERS ROAD
WAREHOUSE
EXPANSION

138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

GENERAL NOTES

5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

C.02

Sheet 2 OF 19

Doc. # 2004077850



FOR REFERENCE ONLY. NOT TO SCALE

PHOTOGRAPHIC MYLAR

Cabinet 2

Slide 133

Doc. #2004077850

FIELD NOTES

FOR A 15.96-ACRE TRACT OF LAND SITUATED IN THE RICHARD WEST SURVEY ABSTRACT NO. 643, WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CERTAIN 15.95 ACRE TRACT CONVEYED BY WARRANTY DEED WITH VENDOR'S LIEN RECORDED IN DOCUMENT NUMBER 2004017251 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, (O.P.R.W.C.T.), SAID 15.96-ACRE TRACT SHOWN ON ACCOMPANYING SURVEY SKETCH AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING AT 3/8-INCH DIAMETER IRON PIPE FOUND ON THE CURVING NORTH RIGHT-OF-WAY LINE OF STATE HIGHWAY 29, SAME POINT BEING THE SOUTHERLY SOUTHWEST CORNER OF THE 15.96 ACRE TRACT AND BEING THE SOUTHEAST CORNER OF A RECORD 5.27 ACRE TRACT OF LAND CONVEYED TO STR CONSTRUCTION IN A CORRECTION PARTITION DEED RECORDED IN DOCUMENT NO. 200068548 OF THE O.P.R.W.C.T.

THENCE DEPARTING THE NORTH RIGHT-OF-WAY OF STATE HIGHWAY 29 WITH THE COMMON BOUNDARY LINE BETWEEN THE SAID 15.96 AND 5.27 ACRE TRACTS, N 15°53'28" E, PASSING AT 400.00 FEET, THE APPROXIMATE INCORPORATION LIMITS OF THE CITY OF LIBERTY HILL, TEXAS, FOR A TOTAL DISTANCE OF 1069.53 FEET TO A 3/8-INCH DIAMETER IRON ROD FOR THE NORTHEAST CORNER OF THE 5.27 ACRE TRACT AND AN ELL CORNER IN THE 15.96 ACRE TRACT;

THENCE N 72°45'05" W WITH THE COMMON LINE BETWEEN THE SAID 15.96 AND 5.27 ACRE TRACTS FOR A DISTANCE OF 214.45 FEET TO A 3/8-INCH IRON ROD FOR THE NORTHWEST CORNER OF THE SAID 5.27 ACRE TRACT AND NORTHEAST CORNER OF A 5.26 ACRE TRACT CONVEYED TO DANIEL PARK IN A WARRANTY DEED RECORDED IN DOCUMENT NO. 2003012834, O.P.R.W.C.T.;

THENCE N 72°43'13" W WITH THE COMMON LINE BETWEEN THE SAID 15.96 AND 5.26 ACRE TRACTS FOR A DISTANCE OF 214.15 FEET TO A 3/8-INCH IRON ROD FOR A CORNER BEING THE NORTHWEST CORNER OF THE SAID 5.26 ACRE TRACT AND THE NORTHEAST CORNER OF A 5.25 ACRE TRACT CONVEYED TO GRETCHEN MICKLER IN A WARRANTY DEED RECORDED IN DOCUMENT NO. 2003045350, O.P.R.W.C.T.;

THENCE WITH THE COMMON LINE BETWEEN THE SAID 15.96 AND 5.25 ACRE TRACTS, N 68°48'43" W A DISTANCE OF 82.79 FEET TO A 3/8-INCH IRON ROD FOR A CORNER, SAID POINT BEING THE SOUTHEASTERLY CORNER OF AN 11.17 ACRE TRACT OF LAND CONVEYED TO BONNIE OAKS IN A DOCUMENT RECORDED IN VOLUME 334, PAGE 827, O.P.R.W.C.T.;

THENCE WITH THE COMMON LINE BETWEEN THE 15.96 AND 11.17 ACRE TRACTS, THE FOLLOWING THREE COURSES:

1. N 20°53'12" W FOR A DISTANCE OF 244.38 FEET TO A 1/2-INCH IRON ROD WITH A CAP STAMPED "BAKER-AICKLEN AND ASSOCIATES, INC.;"
2. N 18°38'20" W FOR A DISTANCE OF 108.23 FEET TO A 3/8-INCH IRON ROD FOUND FOR A CORNER;
3. N 55°18'20" W FOR A DISTANCE OF 330.15 FEET TO A 3/8-INCH IRON ROD FOUND FOR A CORNER BEING THE SOUTHEAST CORNER OF A RECORD 11.27 ACRE TRACT OF LAND CONVEYED TO RODOLPH ROSAS AND WIFE, BERNITA F. MOSE IN A GENERAL WARRANTY DEED RECORDED IN DOCUMENT NUMBER 2002043078, O.P.R.W.C.T.;

THENCE WITH THE COMMON LINE BETWEEN THE 15.96 AND 11.27 ACRE TRACTS, N 56°30'46" E FOR A DISTANCE OF 575.61 FEET TO A 3/8-INCH IRON ROD FOUND FOR A COMMON CORNER OF THE 15.96 AND 11.27 ACRE TRACTS AND LYING ON THE WESTERLY LINE OF A STRIP OF LAND CONVEYED TO THE CITY OF AUSTIN IN A QUITCLAIM DEED RECORDED IN VOLUME 1417, PAGE 282, O.P.R.W.C.T. BEING THE RIGHT-OF-WAY FOR THE AUSTIN NORTHWESTERN RAILWAY (FORMERLY SOUTHERN PACIFIC TRANSPORTATION COMPANY RIGHT-OF-WAY);

THENCE WITH THE COMMON LINE BETWEEN THE 15.96 ACRE AND CITY OF AUSTIN TRACTS, THE FOLLOWING SIX COURSES:

1. S 21°07'37" E, A DISTANCE OF 66.15 FEET TO A 1/2-INCH IRON ROD FOUND;
2. S 23°46'30" E, A DISTANCE OF 182.72 FEET TO A 1/2-INCH IRON ROD FOUND;
3. S 29°15'23" E, A DISTANCE OF 204.83 FEET TO A 1/2-INCH IRON ROD FOUND;
4. S 34°25'03" E, A DISTANCE OF 142.51 FEET TO A 1/2-INCH IRON ROD FOUND;
5. S 40°02'57" E, A DISTANCE OF 235.63 FEET TO A 1/2-INCH IRON ROD FOUND;
6. S 45°54'51" E, A DISTANCE OF 280.89 FEET TO A 1/2-INCH IRON ROD FOUND BEING THE NORTHEAST CORNER OF THE 15.96 ACRE TRACT AND THE NORTHWEST CORNER OF A CALLED 10.00 ACRE TRACT OF LAND CONVEYED TO MARIA ELENA CARRANZA IN A CASH WARRANTY DEED RECORDED IN DOCUMENT NUMBER 199963375, O.P.R.W.C.T.;

THENCE WITH THE COMMON LINE BETWEEN THE 15.96 AND 10.00 ACRE TRACTS, THE FOLLOWING TWO COURSES:

1. S 08°33'59" E, A DISTANCE OF 31.43 FEET TO A 1/2-INCH IRON ROD FOUND;
2. S 15°54'01" W, PASSING AT 787.85 FEET, THE APPROXIMATE INCORPORATION LIMITS OF THE CITY OF LIBERTY HILL, TEXAS, FOR A TOTAL DISTANCE OF 1187.85 FEET TO A 1/2-INCH IRON ROD FOUND ON THE CURVING NORTH RIGHT-OF-WAY LINE OF STATE HIGHWAY 29;

THENCE ALONG THE SOUTH PROPERTY LINE OF THE 15.96 ACRE TRACT AND THE NORTHERLY HIGHWAY RIGHT-OF-WAY LINE WITH A CURVE TO THE RIGHT HAVING A CENTRAL ANGLE OF 02°09'41", A RADIUS OF 5669.83 FEET, A CHORD BEARING AND DISTANCE OF N 76°09'35" W, 213.87 FEET, AN ARC DISTANCE OF 213.88 FEET TO THE POINT OF BEGINNING AND CONTAINING 15.96 ACRES OF LAND.

GENERAL NOTES

1. WATER SERVICE WILL BE PROVIDED BY THE LIBERTY HILL WATER SUPPLY CORPORATION.
2. WASTEWATER SERVICE WILL BE PROVIDED BY INDIVIDUAL ON-SITE SEPTIC SYSTEMS. THESE SYSTEMS MUST BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR REGISTERED SANITARIAN.
3. NO LOT IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO THE WATER SYSTEM AND AN APPROVED WASTEWATER SYSTEM.
4. WATER AND WASTEWATER SYSTEMS SERVING THIS SUBDIVISION SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH STATE HEALTH DEPARTMENT PLANS AND SPECIFICATIONS.
5. NO OBJECTS, INCLUDING BUT NOT LIMITED TO, BUILDINGS, FENCES OR LANDSCAPING, SHALL BE PERMITTED WITHIN ANY DRAINAGE EASEMENTS SHOWN HEREON, EXCEPT AS APPROVED BY WILLIAMSON COUNTY.
6. ALL EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER OR HIS/HER ASSIGNS.
7. PROPERTY OWNER AND HIS/HER ASSIGNS SHALL PROVIDE FOR ACCESS TO DRAINAGE EASEMENTS AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS BY GOVERNMENTAL AUTHORITIES.
8. THE OWNER OF THIS SUBDIVISION, AND HIS OR HER SUCCESSORS AND ASSIGNS, ASSUMES RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF WILLIAMSON COUNTY. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR RE-PLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.
9. SITE DEVELOPMENT PLANS SHALL BE REVIEWED AND APPROVED BY WILLIAMSON COUNTY PRIOR TO ANY CONSTRUCTION.
10. ALL SUBDIVISION CONSTRUCTION, INCLUDING STREETS, DRAINAGE, WATER, WASTEWATER, ETC., SHALL CONFORM TO WILLIAMSON COUNTY ORDINANCES AND CONSTRUCTION STANDARDS.
11. NO STRUCTURE OR LAND ON THIS DOCUMENT SHALL HEREAFTER BE LOCATED OR ALTERED WITHOUT FIRST SUBMITTING A CERTIFICATE OF COMPLIANCE APPLICATION FORM TO THE WILLIAMSON COUNTY FLOOD PLAIN ADMINISTRATOR.
12. ALL LOTS WILL REQUIRE ON-SITE STORMWATER DETENTION.

THE STATE OF TEXAS §
THE COUNTY OF WILLIAMSON §

KNOW ALL MEN BY THESE PRESENTS:

THAT JACK BEVERS AND WILLIAM MORAN, BEING THE SOLE OWNERS OF 15.96 ACRES OF LAND SITUATED IN THE RICHARD WEST SURVEY, ABSTRACT NO. 643, WILLIAMSON COUNTY, TEXAS, BEING ALL OF THAT CERTAIN 15.95 ACRE TRACT CONVEYED BY WARRANTY DEED WITH VENDOR'S LIEN RECORDED IN DOCUMENT NUMBER 2004017251 OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS, DOES HEREBY SUBDIVIDE SAID 15.96 ACRES OF LAND IN ACCORDANCE WITH THE ATTACHED MAP OR PLAT, TO BE KNOWN AS "AMIFAST INDUSTRIAL PARK", AND DO HEREBY JOIN, APPROVE AND CONSENT TO ALL DEDICATIONS AND PLAT NOTE REQUIREMENTS SHOWN HEREON; AND DOES HEREBY APPROVE THE RECORDATION OF THIS SUBDIVISION PLAT; AND DOES HEREBY DEDICATE TO THE PUBLIC USE FOREVER ALL STREETS AND ROADS THAT ARE SHOWN HEREON, SUBJECT TO ANY EASEMENTS, AND/OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED. IT IS THE RESPONSIBILITY OF THE OWNER, NOT THE COUNTY, TO ASSURE COMPLIANCE WITH THE PROVISIONS OF ALL APPLICABLE STATE, FEDERAL, AND LOCAL LAWS AND REGULATIONS RELATING TO THE ENVIRONMENT, INCLUDING (BUT NOT LIMITED TO) THE ENDANGERED SPECIES ACT, STATE AQUIFER REGULATIONS, AND MUNICIPAL WATERSHED ORDINANCES.

WITNESS MY HAND THIS 6 DAY OF Aug, 2004 A.D.

BY: Jack Bevers William Moran
[STATE OF TEXAS] [COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED JACK BEVERS, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEAL ON THE 6 DAY OF Aug, 2004.

Jolynn Anne Christie
SIGNATURE
NOTARY PUBLIC, STATE OF TEXAS
PRINTED NAME: Jolynn Anne Christie
COMMISSION EXPIRES: March 25, 2006



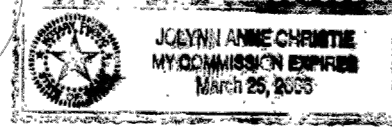
[STATE OF TEXAS]
[COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED WILLIAM MORAN, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEAL ON THE 6 DAY OF Aug, 2004.

Jolynn Anne Christie
SIGNATURE
NOTARY PUBLIC, STATE OF TEXAS
PRINTED NAME: Jolynn Anne Christie
COMMISSION EXPIRES: March 25, 2006



[STATE OF TEXAS]
[COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

THAT FIRST TEXAS BANK OF GEORGETOWN, TEXAS, ACTING THROUGH IT'S TRUSTEE, BARRY J. HAAG, IS A LIEN HOLDER OF THAT CERTAIN TRACT OF LAND SHOWN HEREON AND DESCRIBED IN DEED RECORDED IN DOCUMENT NUMBER 2004017251, OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS; DO HEREBY JOIN APPROVE AND CONSENT TO ALL DEDICATIONS AND PLAT NOTE REQUIREMENTS SHOWN HEREON; AND DOES HEREBY APPROVE THE RECORDATION OF THIS SUBDIVISION PLAT; AND DOES HEREBY DEDICATE TO THE PUBLIC USE FOREVER ALL STREETS AND ROADS THAT ARE SHOWN HEREON, SUBJECT TO ANY EASEMENTS, AND/OR RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED.

WITNESS MY HAND THIS 6th DAY OF August, 2004 A.D.

BY: [Signature] BARRY J. HAAG, TRUSTEE
FIRST TEXAS BANK
900 S. AUSTIN AVENUE
GEORGETOWN, TEXAS 78626

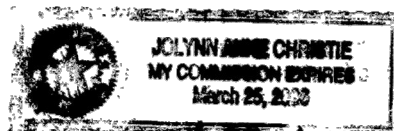
[STATE OF TEXAS]
[COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED BARRY J. HAAG, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT AND ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEAL ON THE 6 DAY OF August, 2004.

Jolynn Anne Christie
SIGNATURE
NOTARY PUBLIC, STATE OF TEXAS
PRINTED NAME: Jolynn Anne Christie
COMMISSION EXPIRES: March 25, 2006



WILLIAMSON COUNTY AND CITIES HEALTH DISTRICT APPROVAL

BASED UPON THE REPRESENTATIONS OF THE ENGINEER OR SURVEYOR WHOSE SEAL IS AFFIXED HERETO, AND AFTER REVIEW OF THE PLAT AS REPRESENTED BY THE SAID ENGINEER OR SURVEYOR, FIND THAT THIS PLAT COMPLIES WITH THE REQUIREMENTS OF EDWARDS AQUIFER REGULATIONS FOR WILLIAMSON COUNTY, THE WILLIAMSON COUNTY FLOOD PLAIN REGULATIONS, AND WILLIAMSON COUNTY ON-SITE SEWERAGE FACILITY REGULATIONS. THIS CERTIFICATION IS MADE SOLELY UPON SUCH REPRESENTATIONS AND SHOULD NOT BE RELIED UPON FOR VERIFICATIONS OF THE FACTS ALLEGED. THE WILLIAMSON COUNTY AND CITIES HEALTH DISTRICT AND WILLIAMSON COUNTY DISCLAIMS ANY RESPONSIBILITY TO ANY MEMBER OF THE PUBLIC FOR INDEPENDENT VERIFICATION OF THE REPRESENTATIONS, FACTUAL OR OTHERWISE, CONTAINED IN THIS PLAT AND THE DOCUMENTS ASSOCIATED WITHIN IT.

Paulo Pinto 8/11/04
PAULO PINTO DATE
DIRECTOR OF ENVIRONMENTAL SERVICES

WILLIAMSON COUNTY COMMISSIONERS COURT RESOLUTION AND APPROVAL:

IN APPROVING THIS PLAT BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS, IT IS UNDERSTOOD THAT THE BUILDING OF ALL STREETS, ROADS AND OTHER PUBLIC THOROUGHFARES AND ANY BRIDGES OR CULVERTS NECESSARY TO BE CONSTRUCTED OR PLACED IS THE RESPONSIBILITY OF THE OWNERS OF THE TRACT OF LAND COVERED BY THIS PLAT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS PRESCRIBED BY THE COMMISSIONERS COURT OF WILLIAMSON COUNTY, TEXAS. SAID COMMISSIONERS COURT ASSUMES NO OBLIGATION TO BUILD ANY OF THE STREETS, ROADS OR OTHER PUBLIC THOROUGHFARES SHOWN ON THIS PLAT OR OF CONSTRUCTING ANY OF THE BRIDGES OR CULVERTS IN CONNECTION THEREWITH. THE COUNTY WILL ASSUME NO RESPONSIBILITY FOR DRAINAGE WAYS OR EASEMENTS IN THE SUBDIVISION, OTHER THAN THOSE DRAINING OR PROTECTING THE ROAD SYSTEM AND STREETS.

THE COUNTY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF REPRESENTATIONS BY OTHER PARTIES IN THIS PLAT. FLOOD PLAIN DATA IN PARTICULAR, MAY CHANGE DEPENDING ON SUBSEQUENT DEVELOPMENT.

IT IS FURTHER UNDERSTOOD THAT THE OWNERS OF THE TRACT OF LAND COVERED BY THIS PLAT MUST INSTALL AT THEIR OWN EXPENSE ALL TRAFFIC CONTROL DEVICES AND SIGNAGE THAT MAY BE REQUIRED BEFORE THE STREETS IN THE SUBDIVISION HAVE BEEN FINALLY BEEN ACCEPTED FOR MAINTENANCE BY THE COUNTY.

[STATE OF TEXAS]
[COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

I, JOHN C. DOERFLER, COUNTY JUDGE OF WILLIAMSON COUNTY, TEXAS, DO HEREBY CERTIFY THAT THIS MAP OR PLAT, WITH FIELD NOTES HEREON, THAT A SUBDIVISION HAVING BEEN FULLY PRESENTED TO THE COMMISSIONERS' COURT OF WILLIAMSON COUNTY, TEXAS, AND BY THE SAID COURT DULY CONSIDERED, WERE ON THIS DAY APPROVED AND PLAT IS AUTHORIZED TO BE REGISTERED AND RECORDED IN THE PROPER RECORDS OF THE COUNTY CLERK OF WILLIAMSON COUNTY, TEXAS.

John C. Doerfler 10-4-04 Sept 21, 2004
JOHN C. DOERFLER COUNTY JUDGE DATE
WILLIAMSON COUNTY, TEXAS

[STATE OF TEXAS]
[COUNTY OF WILLIAMSON]

KNOW ALL MEN BY THESE PRESENTS:

I, NANCY E. RISTER, CLERK OF THE COUNTY COURT, WITHIN AND FOR THE COUNTY AND STATE AFORESAID, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATE OF AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON THE DAY OF Oct 4, 2004 A.D., AT 4:16 O'CLOCK, P.M., IN THE PLAT RECORDS OF SAID COUNTY IN CABINET 2, SLIDE 132 and 133

WITNESS MY HAND AND SEAL AT THE COUNTY COURT OF SAID COUNTY, AT MY OFFICE IN GEORGETOWN, TEXAS, THE LAST DATE SHOWN ABOVE.

BY: Nancy E. Rister
CLERK, COUNTY COURT
WILLIAMSON COUNTY, TEXAS



ROAD NAME AND ADDRESS ASSIGNMENTS APPROVED THIS THE 16th DAY OF August, 2004.

Emily DeLuka
WILLIAMSON COUNTY ADDRESSING COORDINATOR

ACCEPTED AND APPROVED FOR RECORDING IN WILLIAMSON COUNTY PLAT RECORDS

Ann Shaw 7-21-04
MAYOR DATE
CITY OF LIBERTY HILL

AMIFAST INDUSTRIAL PARK
A SUBDIVISION OF 15.96 ACRES
SITUATED IN THE RICHARD WEST SURVEY
ABSTRACT NO. 643
LIBERTY HILL, WILLIAMSON CO., TEXAS



DRAWN: WAF SCALE: NA
REVIEWED: RDS DATE: 7-15-04
XREF FILE(S): N/A

CLIENT
IDM SUPPLY
10601 W. HWY. 29
LIBERTY HILL, TEXAS 78642

PROJECT
AMIFAST INDUSTRIAL PARK

PROJECT NO.
1435-3-001-22

SHEET NO.
2 OF 2

ECKERMANN
ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-565-1038
TBP# FIRM NO. F-10496

138 BEVERS ROAD
WAREHOUSE
EXPANSION

LIBERTY HILL, TEXAS 78642

SUBDIVISION
PLAT

INCLUDED
FOR
REFERENCE
ONLY

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

C.04

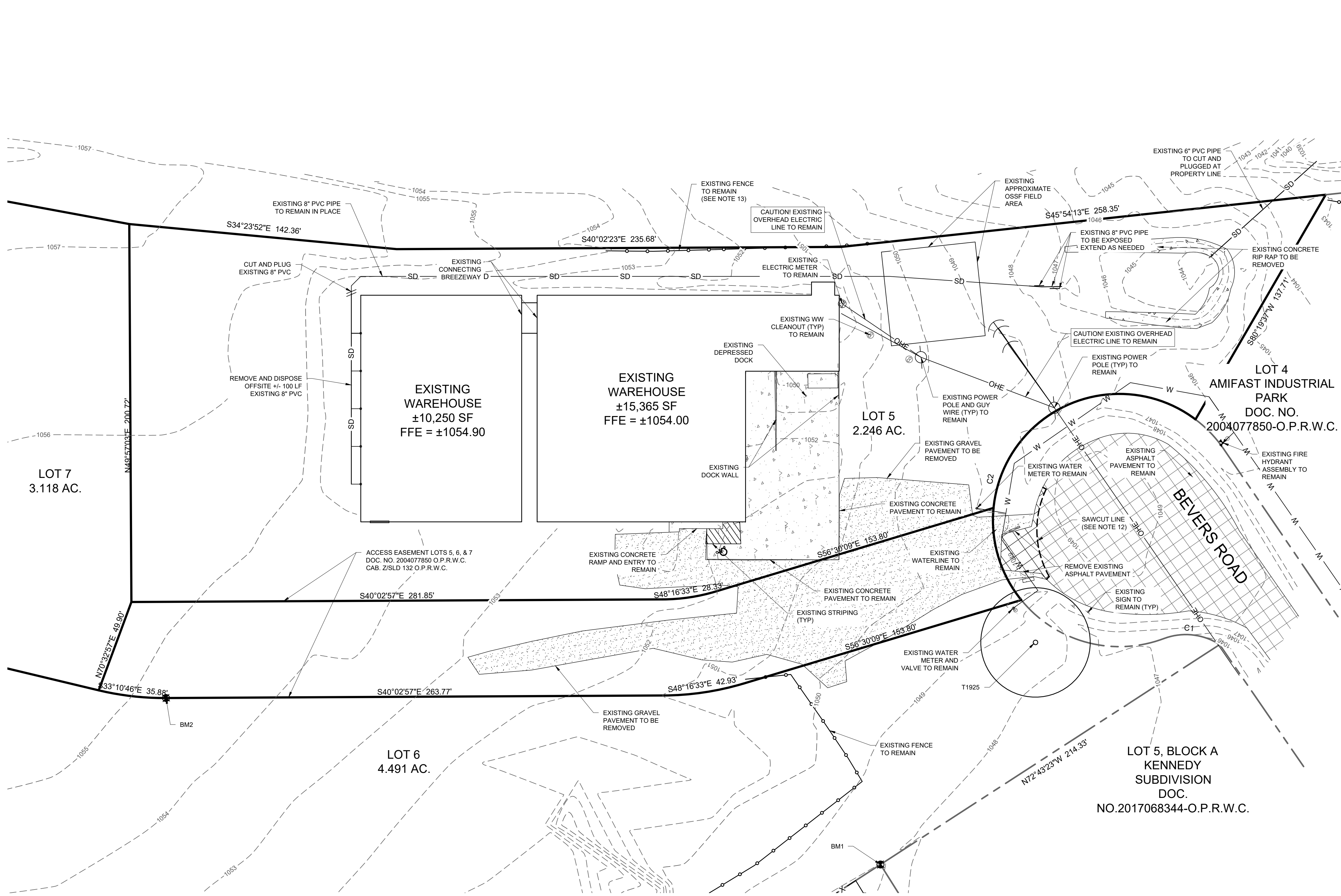
Sheet 4 OF 19

FOR REFERENCE ONLY. NOT TO SCALE



5/20/2024 11:26:47 AM

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CURVE TABLE				
CURVE	RADIUS	ARC LEN	CHD LEN	CHD BRG
C1	33.00'	30.60'	29.51'	S33°21'21"E
C2	67.00'	278.17'	117.27'	S58°20'21"W

BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

VERTICAL DATUM: NAVD 88

TREE TABLE			
TREE NO.	TRUNK DIAMETER	SPECIES	TO BE REMOVED
1925	29"	LIVE OAK	
1926	23"	LIVE OAK	
1927	19"	LIVE OAK	
2552	16"	LIVE OAK	

LEGEND:

PROPERTY LINE	---
LOT LINE	---
EXISTING EASEMENT LINE	---
EXISTING MAJOR CONTOUR	---
EXISTING MINOR CONTOUR	---
EXISTING OVERHEAD ELECTRIC	OHE OHE
EXISTING UNDERGROUND COMMUNICATION	COMM COMM
EXISTING WATER LINE	W W
EXISTING WASTEWATER LINE	WW WW
SAWCUT LINE	---
EXISTING FIRE HYDRANT	⊕
EXISTING WASTEWATER MANHOLE	⊕
BENCHMARK	⊕
EXISTING CONCRETE PAVEMENT	▨
EXISTING ASPHALT PAVEMENT	▨
EXISTING GRAVEL PAVEMENT	▨

NOTES:

- SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES, INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
- REMOVAL OR RELOCATION OF EXISTING PUBLIC AND PRIVATE FRANCHISE UTILITIES (WATER, ELECTRIC, AND GAS ETC.) WITHIN THE LIMITS OF THE SITE DEMOLITION SHALL BE COORDINATED WITH THE APPLICABLE UTILITY AGENCIES.
- ALL EXISTING UTILITY SERVICES TO BE TURNED OFF BY UTILITY FRANCHISE TECHNICIAN TO ALLOW FOR EXISTING SERVICE LINES TO BE CUT/ CAPPED AT PROPERTY LINE.
- ALL UTILITIES TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
- SURFACE PAVEMENT INDICATED HEREON (SUCH AS ASPHALT OR CONCRETE) MAY OVERLAY OTHER HIDDEN STRUCTURES (SUCH AS OTHER LAYERS OF PAVEMENT, BUILDING SLAB, ETC.) CONTRACTOR TO NOTIFY ENGINEER/OWNER IMMEDIATELY IF BURIED ITEMS ARE DISCOVERED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES, IRRIGATION LINES, PAVEMENT, ETC., TO REMAIN RESULTING FROM DEMOLITION ACTIVITIES AND REPAIR AT HIS OWN EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- ALL ITEMS TO BE REMOVED SHALL BE DISPOSED OFF-SITE IN A MANNER ACCEPTABLE TO ALL APPLICABLE REGULATIONS.
- PERIMETER EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO DEMOLITION.
- LOCATION OF PUBLIC AND FRANCHISE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL THE ONE CALL CENTER (811) AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITIES WHO DO NOT SUBSCRIBE TO THE ONE CALL PROGRAM FOR LINE MARKINGS THE CONTRACTOR BEARS THE SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THE FACILITIES.
- CONTRACTOR SHALL ADJUST ALL VISIBLE UTILITY FEATURES TO FINISHED GRADE AS NEEDED AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL SAW CUT AND REMOVE PAVEMENT AS NEEDED TO PROVIDE A SQUARE EDGE FOR PROPOSED PAVEMENT. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT.
- CONTRACTOR TO COORDINATE WITH ADJACENT OWNER PRIOR TO MOVING, ALTERING, OR REMOVING FENCES.
- CONTRACTOR SHALL VERIFY EXISTING UTILITY LINE TYPE, LOCATION, MATERIAL AND DEPTH PRIOR TO CONSTRUCTION.

ECKERMANN ENGINEERING, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. ECKERMANN ENGINEERING, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE REMOVAL OF THEIR FACILITIES. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR. NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

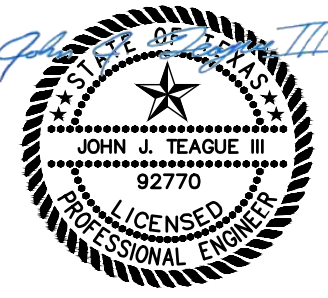
CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.



ECKERMANN ENGINEERING, INC.
901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-968-1038
TBE FIRM NO. F-10496

138 BEVERS ROAD WAREHOUSE EXPANSION
LIBERTY HILL, TEXAS 78642

EXISTING CONDITIONS & DEMOLITION PLAN



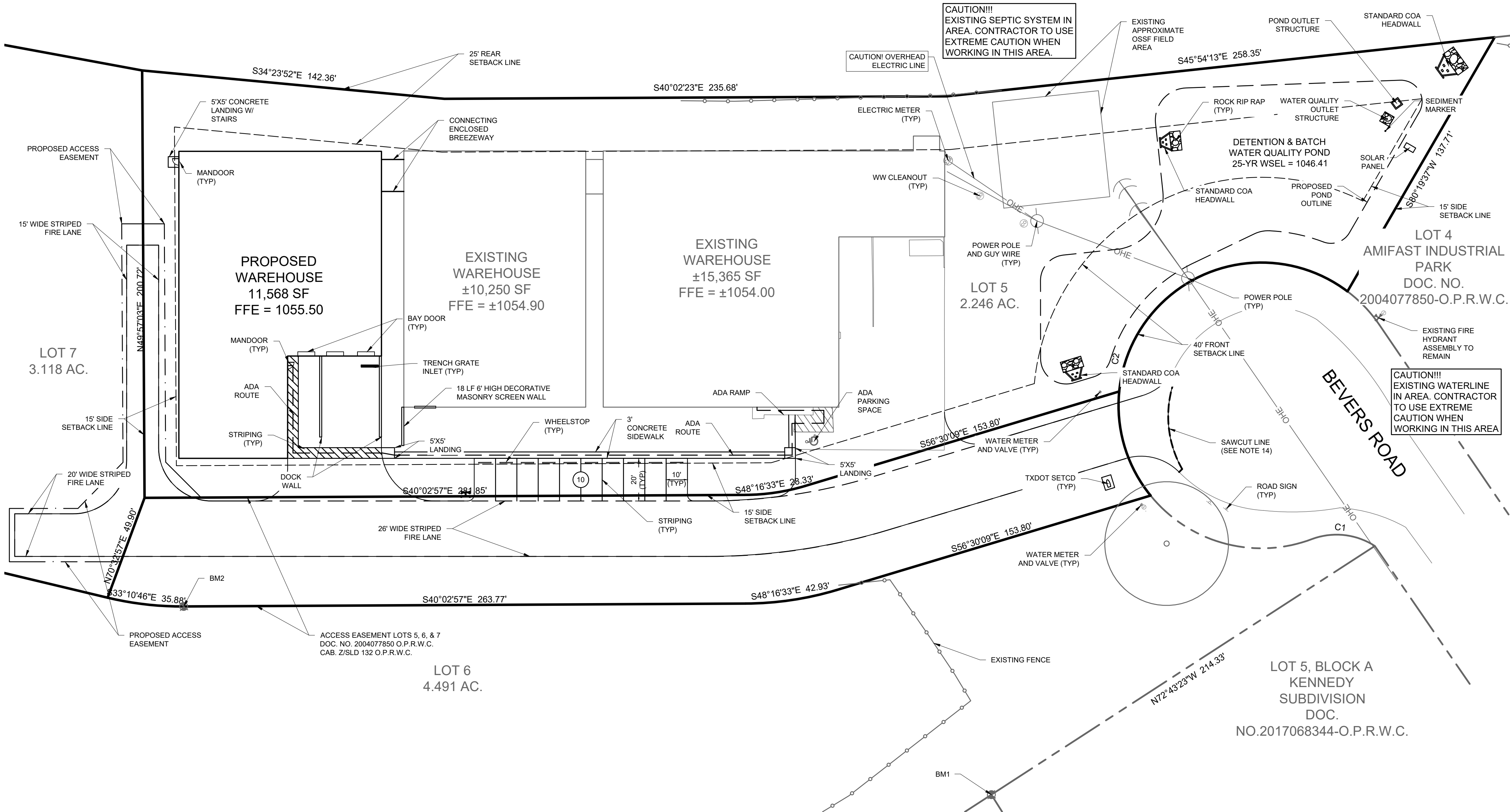
Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

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BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

VERTICAL DATUM: NAVD 88

LEGEND:

PROPERTY LINE	---
LOT LINE	---
EXISTING EASEMENT LINE	---
ADA ROUTE	---
FENCE/CEMENT SCREEN FENCE	---
CHAIN LINK FENCE	---
BENCHMARK	+
FIRE HYDRANT	+
PARKING COUNT	16

NOTES:

- SURVEY INFORMATION PROVIDED BY CUPLIN AND ASSOCIATES, INC., RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
- WATER AND WASTEWATER SERVICE PROVIDED BY THE CITY OF LIBERTY HILL.
- ALL FIRE DEPARTMENT ACCESS DRIVES/ROADS TO HAVE A MINIMUM 14' VERTICAL CLEARANCE AND MAXIMUM SLOPE OF 12% IN ANY DIRECTION.
- ALL PARKING SPACES SHALL HAVE A 7'-0" VERTICAL CLEARANCE.
- EVERY HANDICAP ACCESSIBLE PARKING SPOT SHALL BE IDENTIFIED BY A SIGN CENTERED 5 FEET ABOVE THE PARKING SURFACE. AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE RESERVED, OR EQUIVALENT LANGUAGE. SUCH SIGNS SHALL NOT BE OBTAINED BY A VEHICLE PARKED IN THE SPACE AND SHALL MEET THE CRITERIA SET FORTH IN THE UBC, 3108(C) AND ANSI A117.1-1996-4.8.2. (SEE DETAIL). REFER TO ARCHITECTURAL ADA SHEET FOR MORE INFORMATION.
- CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP.
- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 INCHES.
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. 5' X 5' LANDINGS ARE REQUIRED AT ALL CHANGES IN DIRECTION. LANDINGS SHALL NOT HAVE A SLOPE OF GREATER THAN 1:50 IN ANY DIRECTION.
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT.
- REFER TO DETAILS FOR PAVEMENT SECTIONS.
- COORDINATE LOCATION, SIZE AND TYPE OF LIGHTING WITH MEP AND BUILDING PLANS.
- EDGE LINES SHALL BE SINGLE 4" SOLID LINE WITH INSIDE STRIPING PAINTED SINGLE 4" SOLID LINE AT 30" O.C. 45 DEGREES TO EDGE LINES. PAINT COLOR ON ASPHALT PAVEMENT SHALL BE WHITE. PAINT COLOR ON CONCRETE PAVEMENT SHALL BE YELLOW. (SUBMIT PAINT SPEC FOR APPROVAL BY OWNER PRIOR TO INSTALLATION.)
- CONTRACTOR SHALL SAW CUT AND REMOVE PAVEMENT AS NEEDED TO PROVIDE A SQUARE EDGE FOR PROPOSED PAVEMENT. CONTRACTOR SHALL PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED PAVEMENT.
- UPON INSTALLATION OF SIDEWALKS WITHIN THE ADJACENT ROADWAY AN ADA ROUTE TO THE PUBLIC ROW WILL BE PROVIDED.
- REFER TO LANDSCAPE ARCHITECTURE PLANS FOR TREE PLANTINGS TO MEET PARKING REQUIREMENTS.

SITE INFORMATION:

ZONING	I1 (LIGHT INDUSTRIAL)
TOTAL SITE AREA (AC)	5.364 AC
TOTAL SITE AREA (SF)	233,656 SF
LOT 5 AREA (SF)	97,836 SF
LOT 7 AREA (SF)	135,820 SF
IMPERVIOUS COVER LIMIT	85%
PARKING:	
PARKING REQUIRED BY CODE (1/500SF INDOOR GFA) (1/1,000SF OUTDOOR GFA)	24 SPACES
*PARKING PROVIDED (10'X20')	10 SPACES
HANDICAP PARKING PROVIDED	1 SPACES
TOTAL PARKING PROVIDED	11 SPACES

*NOTE: ALTERNATIVE COMPLIANCE PROPOSED DUE TO NEW WAREHOUSE BEING USED AS STORAGE ONLY. NO ADDITIONAL PERSONNEL.

IMPERVIOUS COVER							
	EXISTING IMPERVIOUS (FT)	EXISTING IMPERVIOUS (AC.)	EXISTING IMPERVIOUS %	PROPOSED IMPERVIOUS (FT)	PROPOSED IMPERVIOUS (AC.)	PROPOSED IMPERVIOUS %	MAX ALLOWABLE IMP COVER% PER ZONING
LOT5	36,288	0.833	37.09	49,845.00	1.15	51.11	85
LOT7	9,705	0.223	7.15	15,280.00	0.35	11.22	85
TOTAL	45,993	1.056	19.68	65,125	1.500	27.96	85



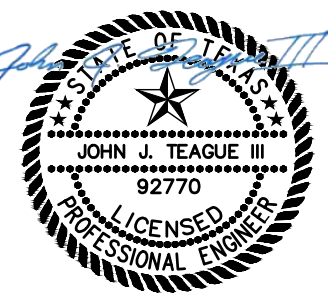
App.	No.	Date	Revisions

ECKERMANN ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

138 BEVERS ROAD WAREHOUSE EXPANSION
LIBERTY HILL, TEXAS 78642

SITE PLAN



5/20/2024

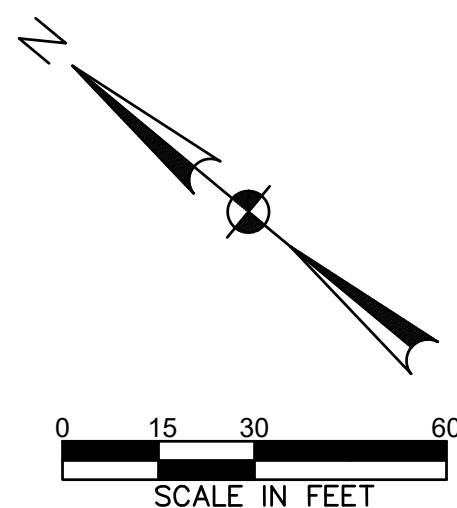
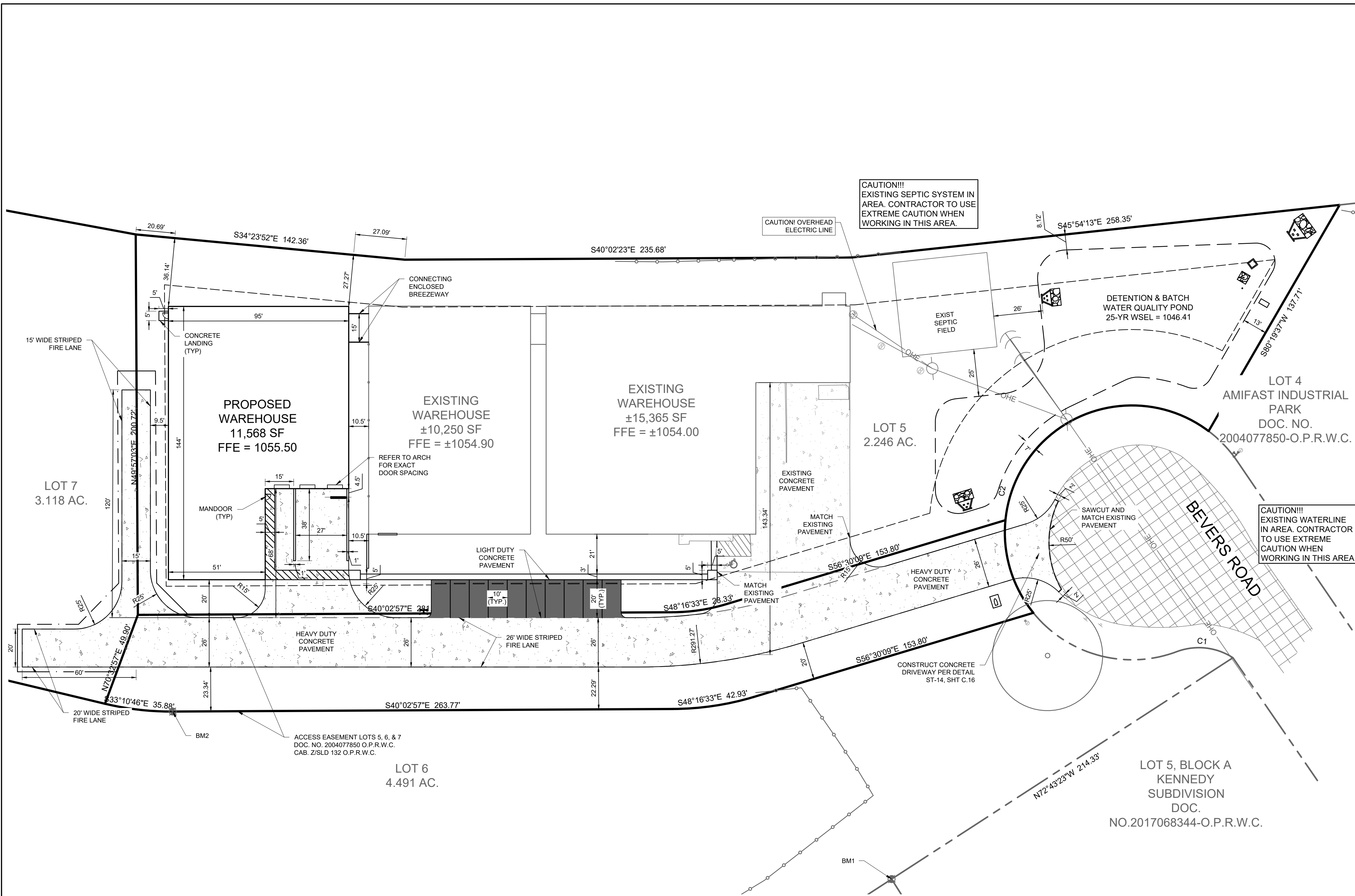
Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

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- LEGEND:
- PROPERTY LINE
 - SET BACK LINE
 - EXISTING EASEMENT LINE
 - FIRE LANE
 - BENCHMARK
- HEAVY DUTY CONCRETE
(SEE SHEET C.16 FOR PAVEMENT DETAIL)
- LIGHT DUTY CONCRETE
(SEE SHEET C.16 FOR PAVEMENT DETAIL)

- NOTES:
- SURVEY INFORMATION PROVIDED BY CUPLIN AND ASSOCIATES, INC., RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
 - CONTRACTOR TO HAVE STAKING VERIFIED BY OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
 - EVERY HANDICAP ACCESSIBLE PARKING SPOT SHALL BE IDENTIFIED BY A SIGN CENTERED 5 FEET ABOVE THE PARKING SURFACE, AT THE HEAD OF THE PARKING SPACE. THE SIGN MUST INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND STATE RESERVED, OR EQUIVALENT LANGUAGE. SUCH SIGNS SHALL NOT BE OBTAINED BY A VEHICLE PARKED IN THE SPACE AND SHALL MEET THE CRITERIA SET FORTH IN THE UBC, 3108(C) AND ANSI A117.1-1986-4.6.2. (SEE DETAIL). REFER TO ARCHITECTURAL ADA SHEET FOR MORE INFORMATION.
 - ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL RADII TO BE 3' UNLESS OTHERWISE NOTED.
 - SEE SITE PLAN FOR ADDITIONAL INFORMATION.
 - REFERENCE ARCHITECTURAL/STRUCTURAL PLANS FOR FINAL DIMENSIONS OF BUILDINGS.
 - EDGE LINES SHALL BE SINGLE 4" SOLID LINE WITH INSIDE STRIPING PAINTED SINGLE 4" SOLID LINE AT 30" O.C. 45 DEGREES TO EDGE LINES. PAINT COLOR ON ASPHALT PAVEMENT SHALL BE WHITE. PAINT COLOR ON CONCRETE PAVEMENT SHALL BE YELLOW. (SUBMIT PAINT SPEC TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.)
 - REFER TO DETAILS FOR PAVEMENT SECTIONS.

BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

VERTICAL DATUM: NAVD 88



App.	No.	Date	Revisions

ECKERMANN ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-968-1098
TBP# FIRM NO. F-10496

**138 BEVERS ROAD
WAREHOUSE
EXPANSION**

138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

**DIMENSIONAL
CONTROL &
PAVING PLAN**

Professional Engineer Seal:
JOHN J. TEAGUE II
92770
LICENSED PROFESSIONAL ENGINEER

5/20/2024

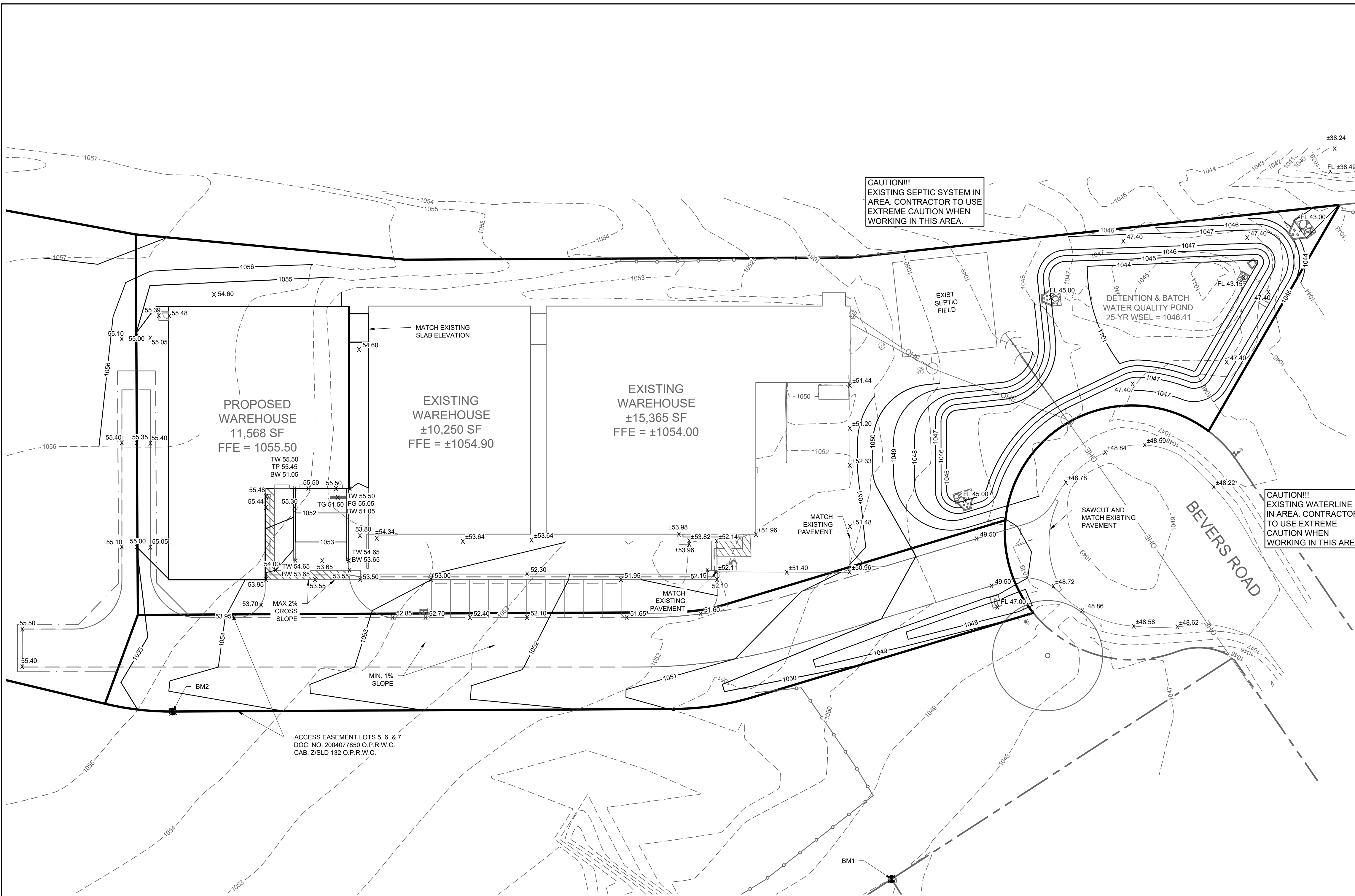
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Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

C.07

Sheet 7 OF 19

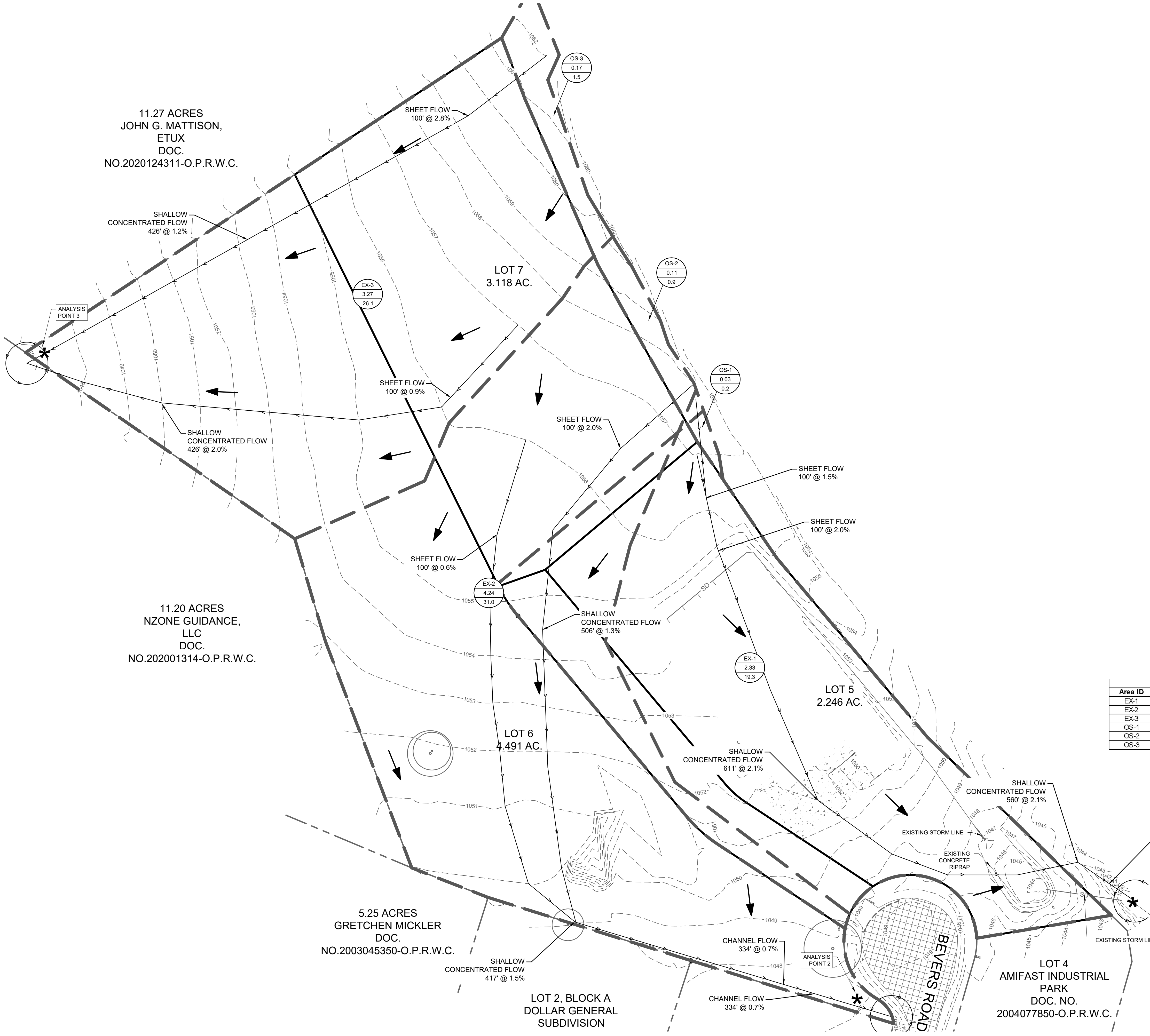
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11.27 ACRES
JOHN G. MATTISON,
ETUX
DOC.
NO.2020124311-O.P.R.W.C.

11.20 ACRES
NZONE GUIDANCE,
LLC
DOC.
NO.202001314-O.P.R.W.C.

5.25 ACRES
GRETCHEN MICKLER
DOC.
NO.2003045350-O.P.R.W.C.

LOT 2, BLOCK A
DOLLAR GENERAL
SUBDIVISION

LOT 6
4.491 AC.

LOT 5
2.246 AC.

LOT 7
3.118 AC.

LOT 4
AMIFAST INDUSTRIAL
PARK
DOC. NO.
2004077850-O.P.R.W.C.

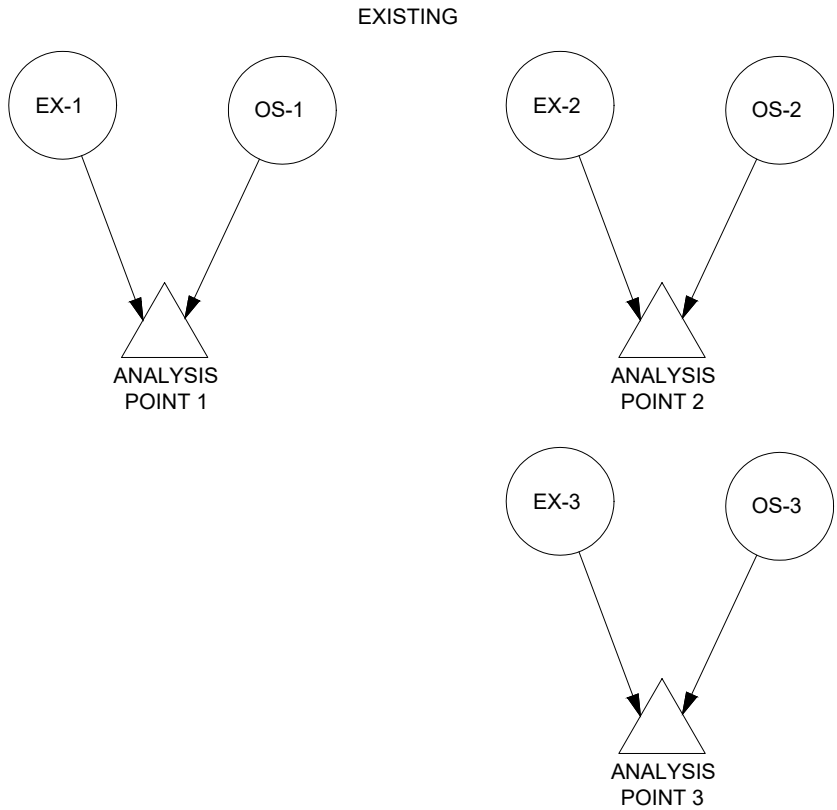
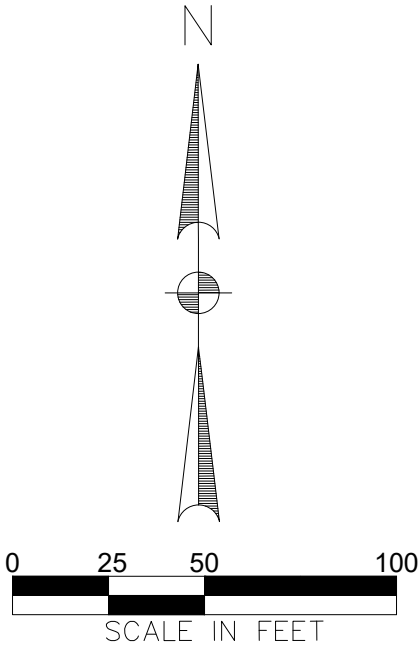
LEGEND:

- PROPERTY LINE
LOT LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
DRAINAGE AREA BOUNDARY LINE
TIME OF CONCENTRATION FLOW PATH
FLOW LINES

- DRAINAGE AREA TAG
EX-1
2.33
19.3
DRAINAGE AREA
ACREAGE
100 - YEAR FLOW

NOTES:

- SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES, INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
- SCS METHOD AND HEC-HMS VERSION 4.11 WERE UTILIZED TO ANALYZE PRE-DEVELOPMENT AND POST DEVELOPMENT PEAK FLOW RATES
- PRECIPITATION FREQUENCY VALUES WERE TAKEN FROM ATLAS 14 FOR LIBERTY HILL FOR A 24-HOUR DURATION FREQUENCY STORM
- SOILS WERE DETERMINED TO BE WITHIN HYDROLOGIC SOIL GROUP D PER THE USDA SOIL SURVEY.
- THIS SHEET IS USED SOLELY FOR THE PURPOSE OF DETENTION POND DESIGN, NOT FOR CONSTRUCTION.



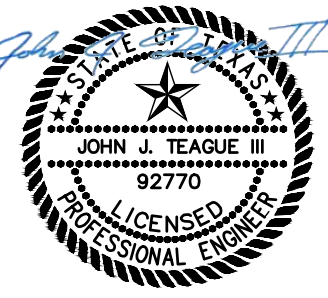
EXISTING CONDITIONS (SCS METHOD)									
Area ID	DA (ac.)	I.C. (ac.)	TC(min.)	TC(hr.)	CN	Q2(cfs)	Q10(cfs)	Q25(cfs)	Q100(cfs)
EX-1	2.33	0.00	12.0	0.20	84.0	5.1	9.7	13.1	19.3
EX-2	4.24	0.00	18.6	0.31	84.0	8.1	15.5	21.0	31.0
EX-3	3.27	0.00	14.0	0.23	84.0	6.9	13.1	17.7	26.1
OS-1	0.03	0.00	13.3	0.22	84.0	0.1	0.1	0.1	0.2
OS-2	0.11	0.00	14.7	0.25	84.0	0.2	0.4	0.6	0.9
OS-3	0.17	0.00	11.7	0.20	84.0	0.4	0.7	1.0	1.5

ECKERMANN
ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

138 BEVERS ROAD
WAREHOUSE
EXPANSION
138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

EXISTING
DRAINAGE AREA
MAP



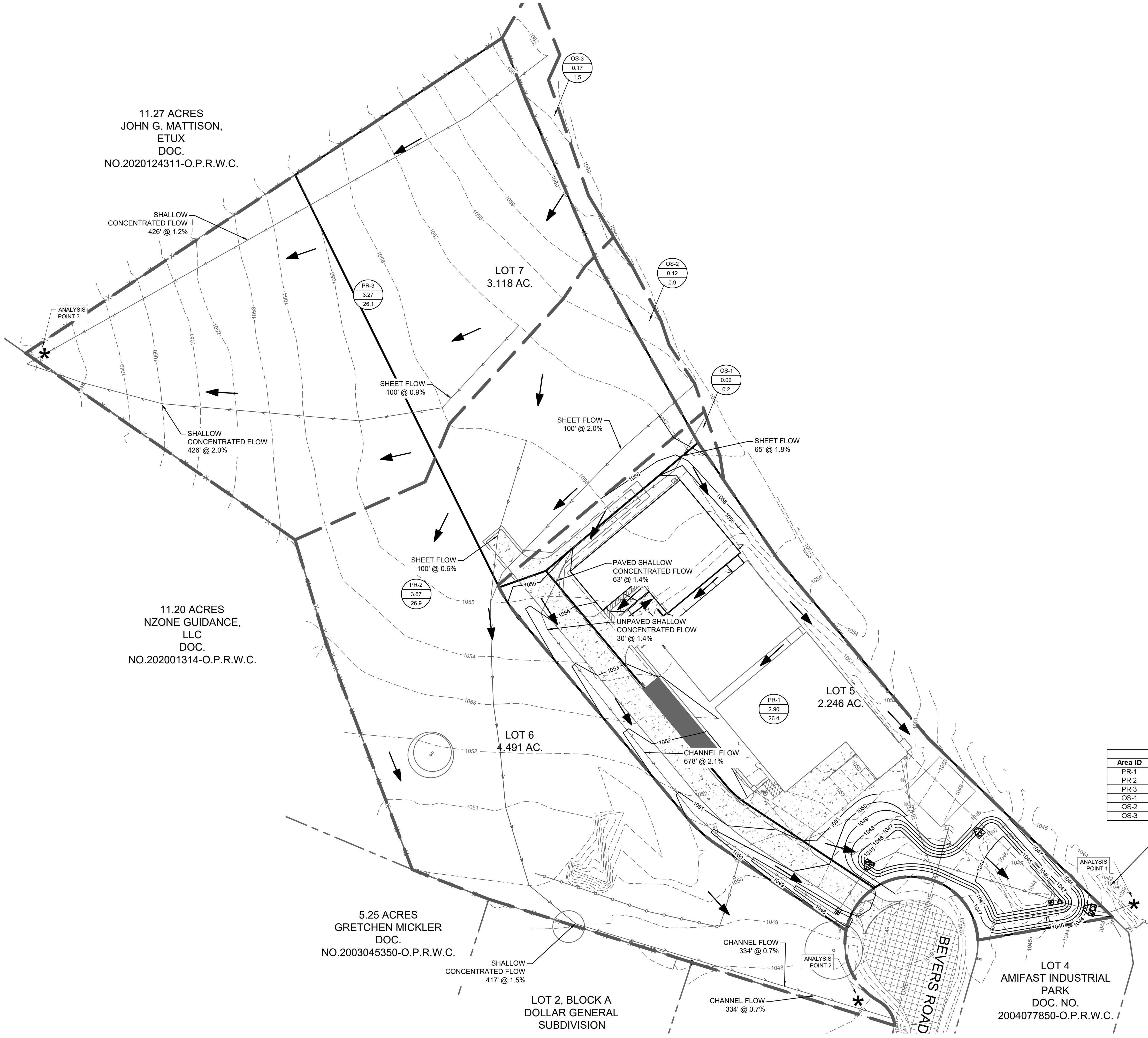
5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

C.09

Sheet 9 OF 19

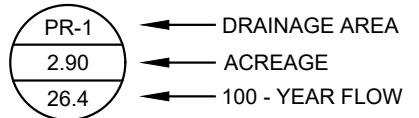




LEGEND:

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- GIS MAJOR CONTOUR
- GIS MINOR CONTOUR
- MAJOR CONTOUR
- MINOR CONTOUR
- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- FLOW LINES

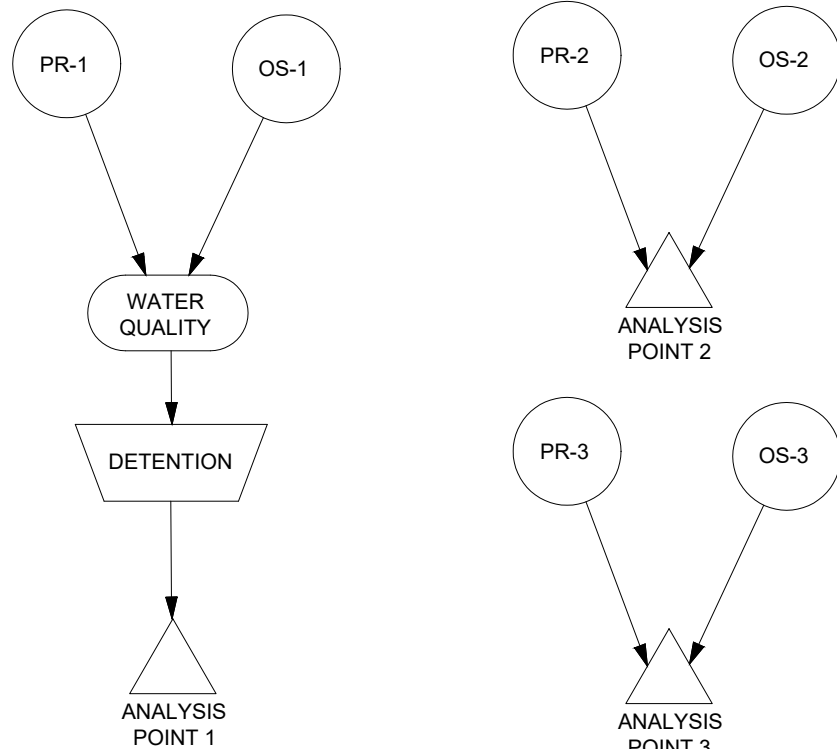
DRAINAGE AREA TAG



NOTES:

- SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES, INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
- THE SCS METHOD AND HEC-HMS VERSION 4.11 WERE UTILIZED TO ANALYZE PRE-DEVELOPMENT AND POST DEVELOPMENT PEAK FLOW RATES.
- PRECIPITATION FREQUENCY VALUES WERE TAKEN FROM ATLAS 14 FOR LIBERTY HILL FOR A 24-HOUR DURATION FREQUENCY STORM
- SOILS WERE DETERMINED TO BE WITHIN HYDROLOGIC SOIL GROUP D PER THE USDA SOIL SURVEY
- THIS SHEET IS USED SOLELY FOR THE PURPOSE OF DETENTION POND DESIGN, NOT FOR CONSTRUCTION.

PROPOSED



PROPOSED CONDITIONS (SCS METHOD)									
Area ID	DA (ac.)	I.C. (ac.)	TC(min.)	TC(hr.)	CN	Q2(cfs)	Q10(cfs)	Q25(cfs)	Q100(cfs)
PR-1	2.90	1.500	10.0	0.17	91.3	8.3	14.2	18.5	26.4
PR-2	3.67	0.037	18.6	0.31	84.1	7.0	13.5	18.2	26.9
PR-3	3.27	0.000	14.0	0.23	84.0	6.9	13.1	17.7	26.1
OS-1	0.02	0.000	11.3	0.19	84.0	0.0	0.1	0.1	0.2
OS-2	0.12	0.000	15.2	0.25	84.0	0.2	0.5	0.6	0.9
OS-3	0.17	0.000	11.7	0.20	84.0	0.4	0.7	1.0	1.5

ANALYSIS POINT 1 (CFS) ROUTED FLOWS					
Condition	2-year	10-year	25-year	100-year	
Existing	5.14	9.80	13.23	19.53	
Developed	4.59	9.74	13.10	19.29	

ANALYSIS POINT 2 (CFS) ROUTED FLOWS					
Condition	2-year	10-year	25-year	100-year	
Existing	8.33	15.93	21.54	31.65	
Developed	7.28	13.90	18.78	27.76	

ANALYSIS POINT 3 (CFS) ROUTED FLOWS					
Condition	2-year	10-year	25-year	100-year	
Existing	7.23	13.81	18.66	27.54	
Developed	7.23	13.81	18.66	27.54	

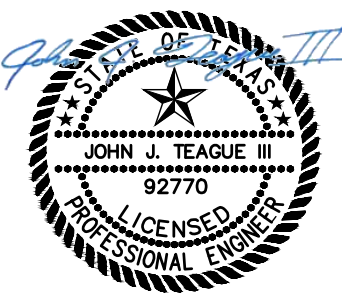


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901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-968-1098
TBP# FIRM NO. F-10496

138 BEVERS ROAD
WAREHOUSE
EXPANSION
LIBERTY HILL, TEXAS 78642

PROPOSED
DRAINAGE AREA
MAP



5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

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Sheet 10 OF 19

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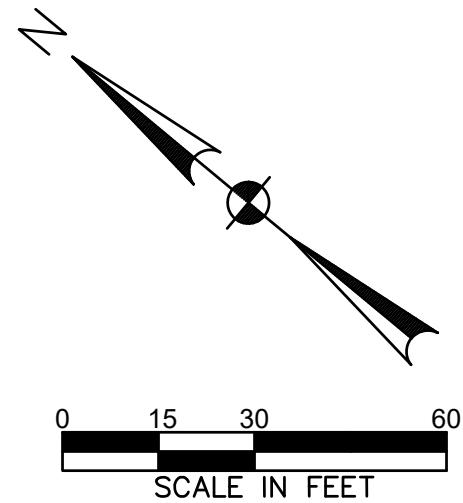
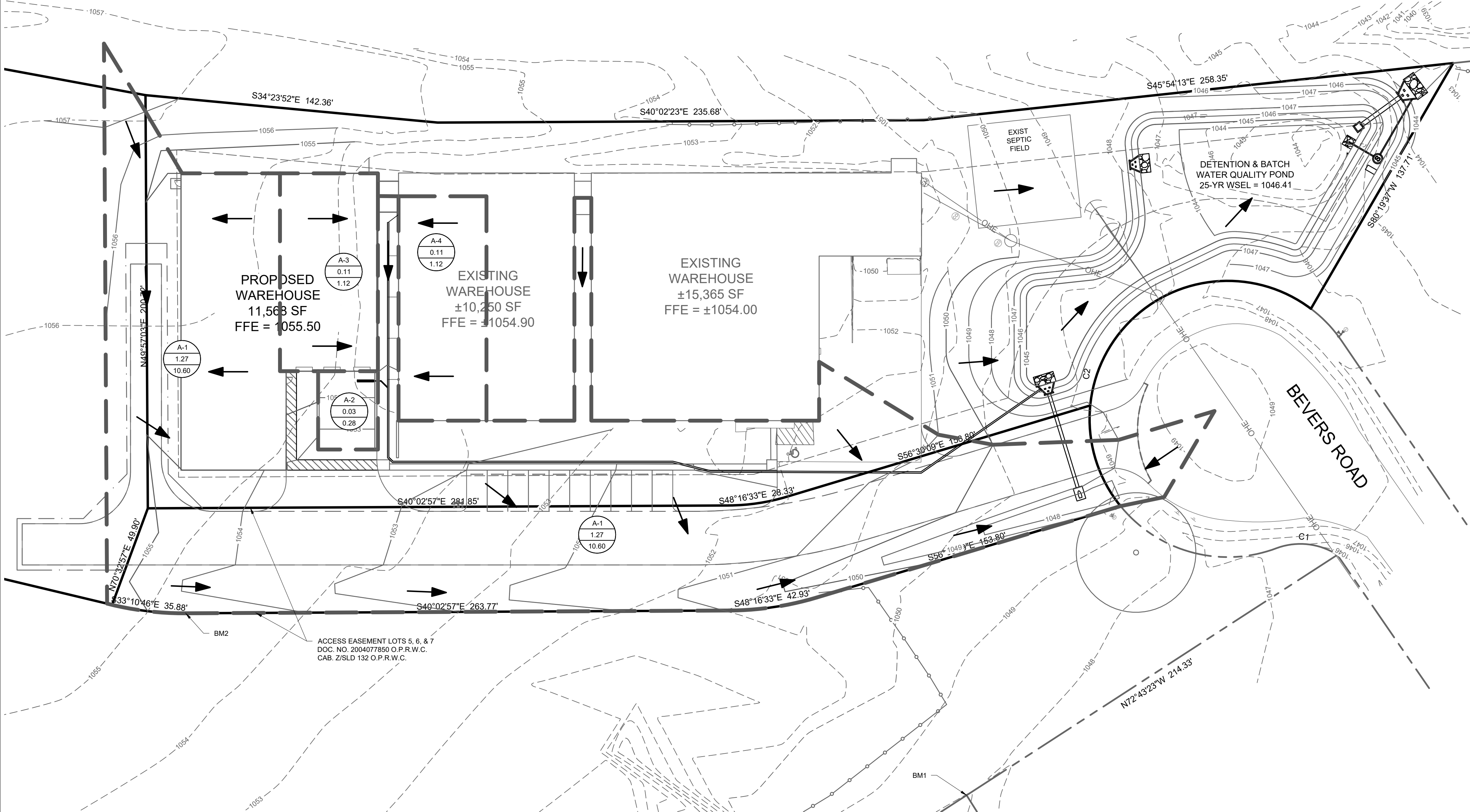
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BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

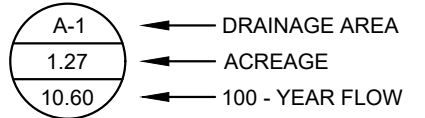
VERTICAL DATUM: NAVD 88



LEGEND:

- PROPERTY LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
GIS MAJOR CONTOUR
GIS MINOR CONTOUR
MAJOR CONTOUR
MINOR CONTOUR
DRAINAGE AREA BOUNDARY
FLOW LINES

DRAINAGE AREA TAG



NOTES:

- SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES, INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
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- PRECIPITATION FREQUENCY VALUES WERE TAKEN FROM ATLAS 14 FOR LIBERTY HILL FOR A 24-HOUR DURATION FREQUENCY STORM
- SOILS WERE DETERMINED TO BE WITHIN HYDROLOGIC SOIL GROUP D PER THE USDA SOIL SURVEY.
- THIS SHEET IS USED SOLELY FOR THE PURPOSE OF DETENTION POND DESIGN, NOT FOR CONSTRUCTION.

2-Year Storm Drainage Summary						
Drainage Area	Drainage Area	Proposed				
ID No.	Ac	Tc min	Composite C	i in/hr	Q cfs	
A-1	1.25	10.00	0.55	4.91	3.38	
A-2	0.02	10.00	0.73	4.91	0.07	
A-3	0.11	10.00	0.73	4.91	0.39	
A-4	0.11	10.00	0.73	4.91	0.39	

10-Year Storm Drainage Summary						
Drainage Area	Drainage Area	Proposed				
ID No.	Ac	Tc min	Composite C	i in/hr	Q cfs	
A-1	1.25	10.00	0.62	7.25	5.59	
A-2	0.02	10.00	0.81	7.25	0.12	
A-3	0.11	10.00	0.81	7.25	0.65	
A-4	0.11	10.00	0.81	7.25	0.65	

25-Year Storm Drainage Summary						
Drainage Area	Drainage Area	Proposed				
ID No.	Ac	Tc min	Composite C	i in/hr	Q cfs	
A-1	1.25	10.00	0.66	8.78	7.26	
A-2	0.02	10.00	0.86	8.78	0.15	
A-3	0.11	10.00	0.86	8.78	0.83	
A-4	0.11	10.00	0.86	8.78	0.83	

100-Year Storm Drainage Summary						
Drainage Area	Drainage Area	Proposed				
ID No.	Ac	Tc min	Composite C	i in/hr	Q cfs	
A-1	1.25	10.00	0.74	11.23	10.43	
A-2	0.02	10.00	0.95	11.23	0.21	
A-3	0.11	10.00	0.95	11.23	1.17	
A-4	0.11	10.00	0.95	11.23	1.17	

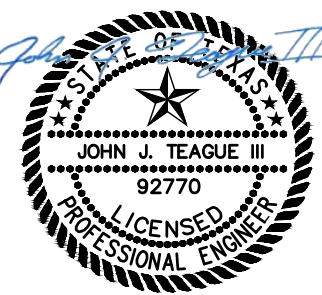
ECKERMANN
ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

138 BEVERS ROAD
WAREHOUSE
EXPANSION

138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

SUBBASIN
DRAINAGE AREA
MAP



5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

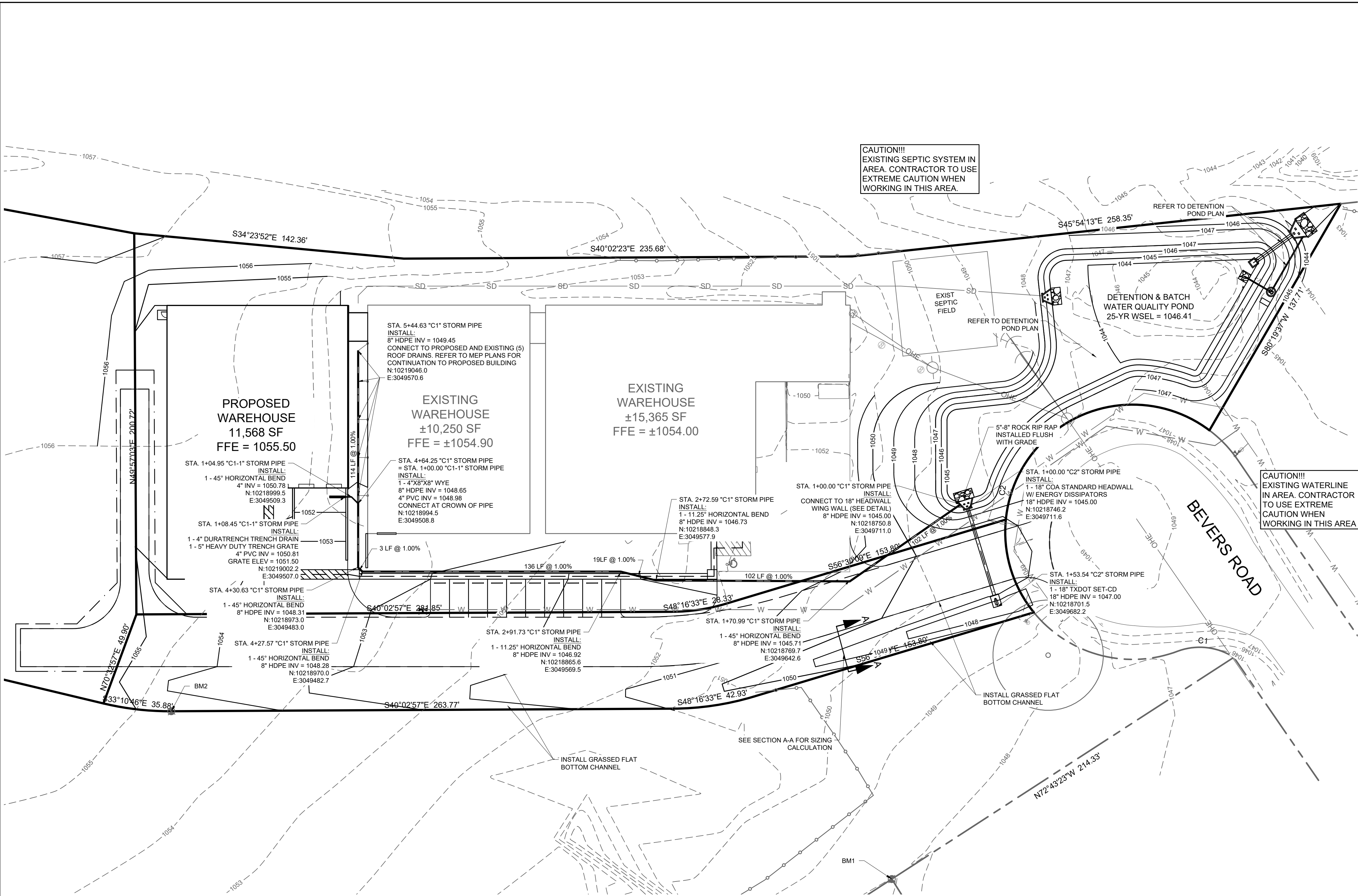
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Sheet 11 OF 19



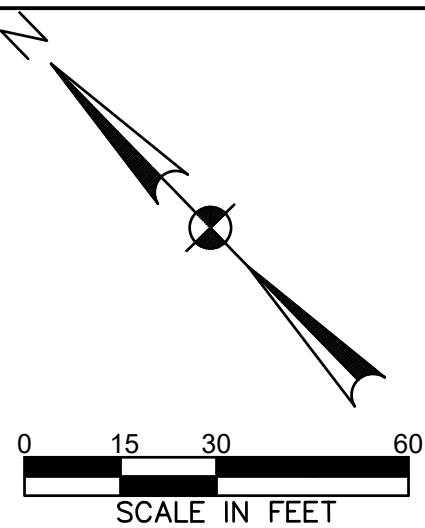
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CAUTION!!!
EXISTING SEPTIC SYSTEM IN
AREA. CONTRACTOR TO USE
EXTREME CAUTION WHEN
WORKING IN THIS AREA.

CAUTION!!!
EXISTING WATERLINE
IN AREA. CONTRACTOR
TO USE EXTREME
CAUTION WHEN
WORKING IN THIS AREA



- LEGEND:
- PROPERTY LINE
 - LOT LINE
 - EXISTING EASEMENT LINE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - EXISTING FIRE HYDRANT
 - EXISTING WASTEWATER MANHOLE
 - BENCHMARK

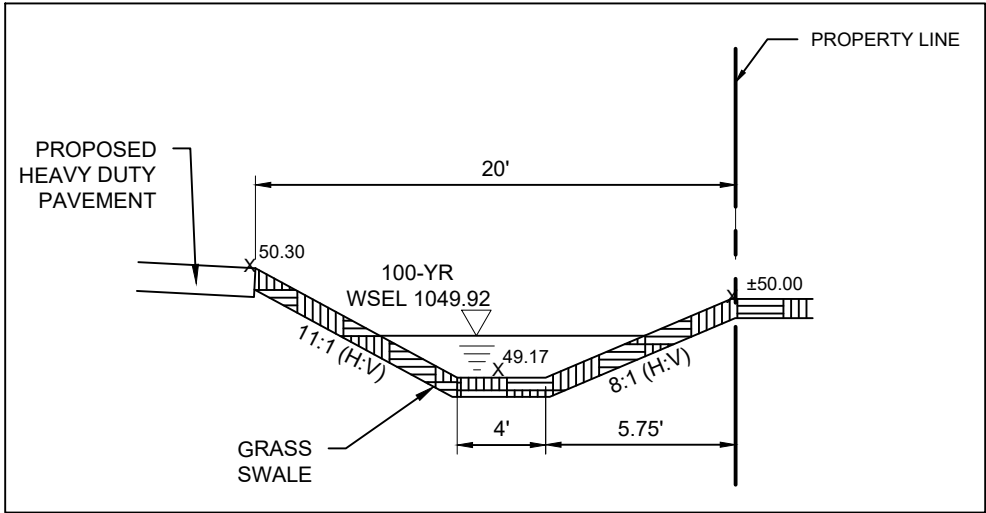
- NOTES:
- SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
 - RATIONAL METHOD WAS UTILIZED FOR SIZING OF STORM DRAINS AND CULVERTS.
 - CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - CONTRACTOR TO VERIFY EXISTING FLOW LINE ELEVATIONS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

Pipe Sizing (100-Yr Storm) - Manning's								
Pipe ID.	Station	Inlets to Storm Pipe	Q ₁₀₀ (cfs)	Pipe Size (inches)	Slope (%)	Manning's n	Q _{FULL} (capacity) (cfs)	Velocity (full) (fps)
C1	1+00.00 TO 4+61.41	EAST ROOF DRAINS, I-2	1.6	8	1.50%	0.012	1.6	4.61
C1	4+61.41 TO 5+41.79	EAST ROOF DRAINS	1.4	8	1.10%	0.012	1.4	5.17
C1-1	1+00.00 TO 1+08.45	I-2	0.2	4	1.00%	0.012	0.2	4.93
C2	1+00.00 TO 1+53.54	CHANNEL CULVERT	10.4	18	3.40%	0.012	21.0	11.91

GRATE INLET SIZING CALCULATIONS							
Drainage Area	Inlet No.	Inlet Type	Q ₁₀₀ (cfs)	Clogging Factor	Head (ft)	Inlet Area (req.) (ft ²) *	Area(prop.) (ft ²)
A-2	I-2	5" WIDE TRENCH DRAIN GRATE INLET	0.2	0.50	0.50	0.13	0.52

*PER MANUFACTURERS MAX INFLOW Q=0.065 SQFT/LF

CHANNEL SIZING CALCULATIONS (100-YR STORM)												
Channel Section	Q (cfs)	Drainage Area to Channel	b1 (ft)	b2 (ft)	h (ft)	Side Slope 1 X:1	Side Slope 2 X:1	Area (sf)	Wetted Perimeter	Hydraulic Radius	slope (%)	n
Section A-A (Channel to Pond)	10.43	1.25	4	18.25	0.75	11	8	8.34	18.33	0.46	1.60%	0.060



SECTION A-A
SCALE: N.T.S.

BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN
ELEV = 1048.33
N: 10218652.57
E: 3049536.37

BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

VERTICAL DATUM: NAVD 88

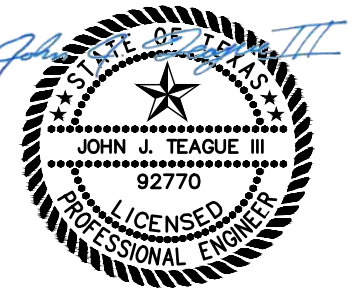


App.		Revisions	
No.	Date	No.	Date

ECKERMANN ENGINEERING, INC.
901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

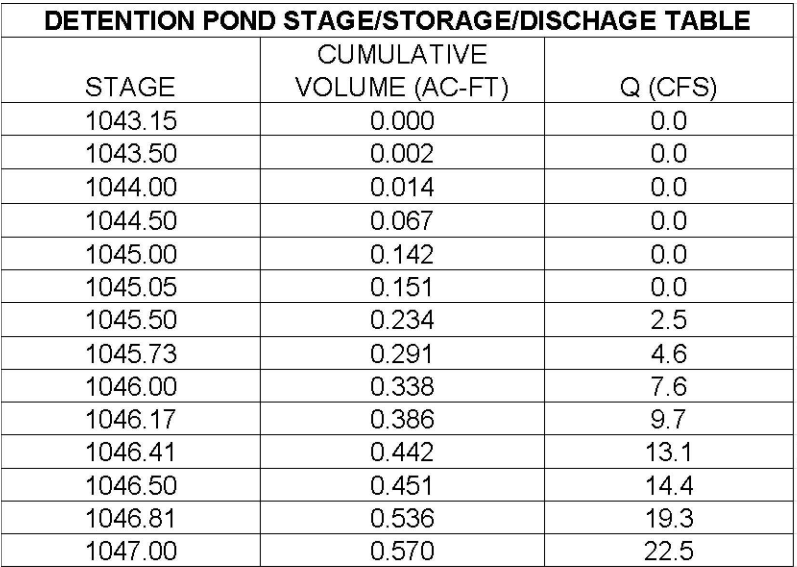
138 BEVERS ROAD WAREHOUSE EXPANSION
LIBERTY HILL, TEXAS 78642

STORM DRAIN PLAN



Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

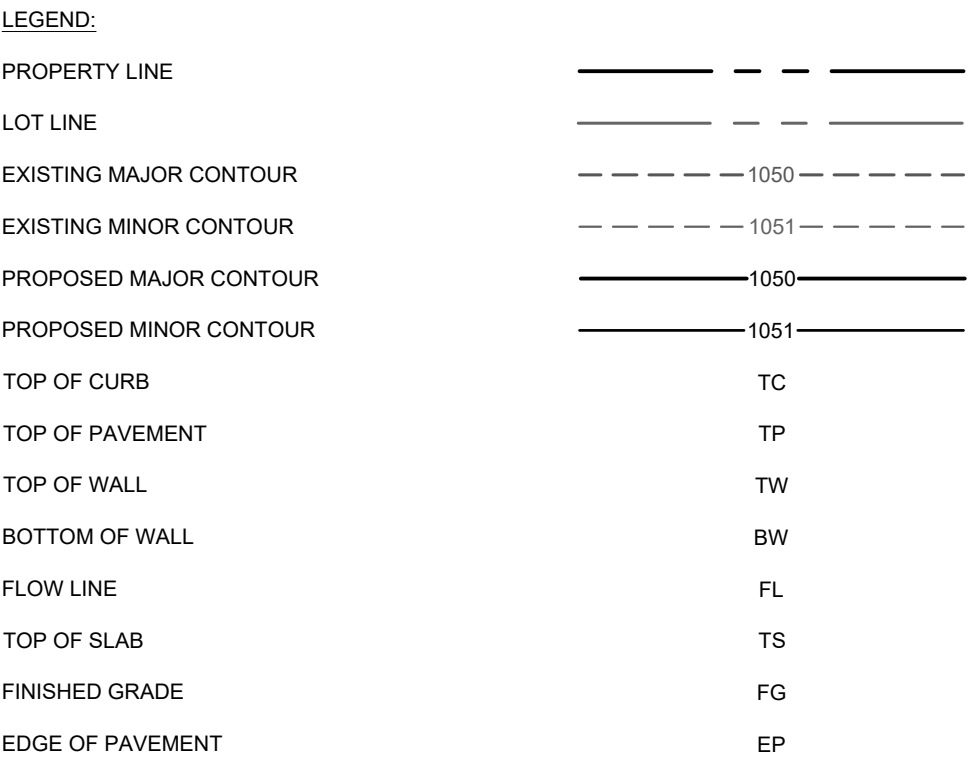
C.12



WQ Orifice Control Outfall:
(Orifice Equation Used)
 $Q = C \cdot A \cdot (2g \cdot H)^{.5}$ where $C = 0.6$ and $g = 32.2$

Volume (WQ Full)=	6208	cf
Pipe Diameter=	1.50	in
Q(allow)=	0.081	cfs
h (maximum) =	1.90	ft
(Junction box weir height minus orifice height)		

Drawdown Time = (Drawdown time shall not exceed 48hrs)	21.17 hrs
------------------------------------------------------------------	------------------



NOTES:

1. SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
2. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
3. REFER TO ENGINEERING REPORT FOR SUPPORTING CALCULATIONS.

ALL ROCK RIP RAP WITHIN SITE SHALL MEET TxDOT SPECIFICATIONS (ITEM NO. 432 AND STANDARDS. (EXAMPLE: CONTRACTOR TO INSTALL 12" RIP RAP AT DEPTH OF 18" MIN.)



Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **Beyers Road Warehouse**
Date Prepared: **2/13/2024**

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: $L_M = 27.2(A_{NI} \times P)$

where:

L_M 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 =	2.90 acres
Predevelopment impervious area within the limits of the plan =	0.00 acres
Total post-development impervious area within the limits of the plan =	1.50 acres
Total post-development impervious cover fraction =	0.52
P =	32 inches

L_M TOTAL PROJECT = **1306** 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 =	2.90 acres
Predevelopment impervious area within drainage basin/outfall area =	0.00 acres
Post-development impervious area within drainage basin/outfall area =	1.50 acres
Post-development impervious fraction within drainage basin/outfall area =	0.52
L_M THIS BASIN =	1306 lbs.

3. Indicate the proposed BMP Code for this basin.

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

Aquaglogic 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: $L_R = (BMP \text{ efficiency}) \times P \times (A_I \times 34.6 + A_P \times 0.54)$

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 =	2.90 acres
A_I =	1.50 acres
A_P =	1.40 acres
L_R =	1533 lbs

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

Desired L_M THIS BASIN = **1306** lbs.

F = **0.85**

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 =	1.32 inches
Post Development Runoff Coefficient =	0.37
On-site Water Quality Volume =	5102 cubic feet

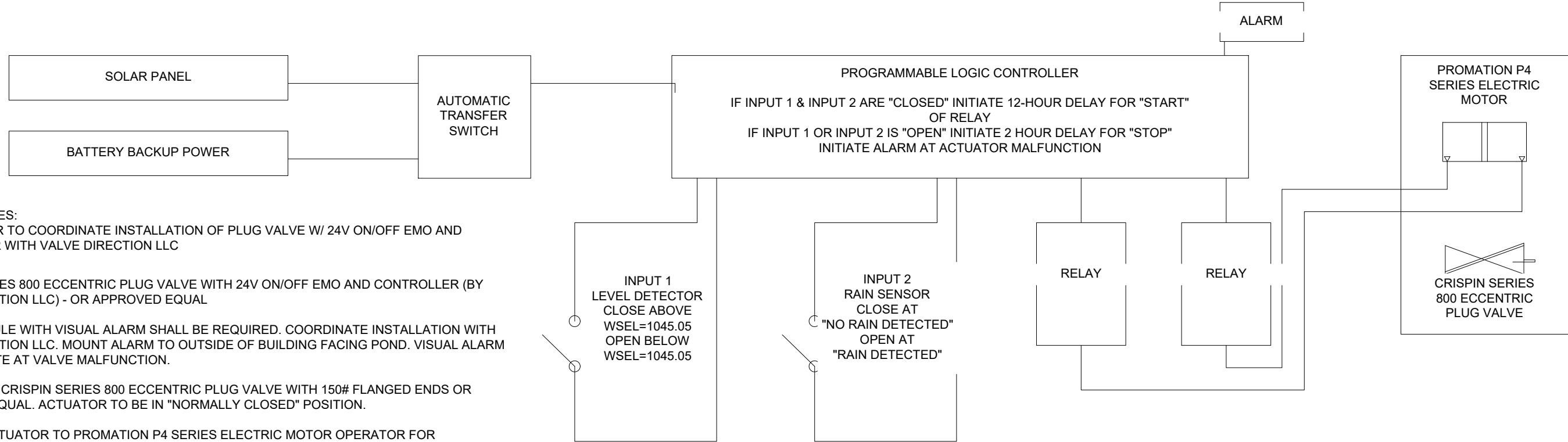
Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP =	0.74 acres
Off-site Impervious cover draining to BMP =	0.00 acres
Impervious fraction of off-site area =	0.00
Off-site Runoff Coefficient =	0.02
Off-site Water Quality Volume =	71 cubic feet

Storage for Sediment = **1035**

Total Capture Volume (required water quality volume(s) x 1.20) = **6208** 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.

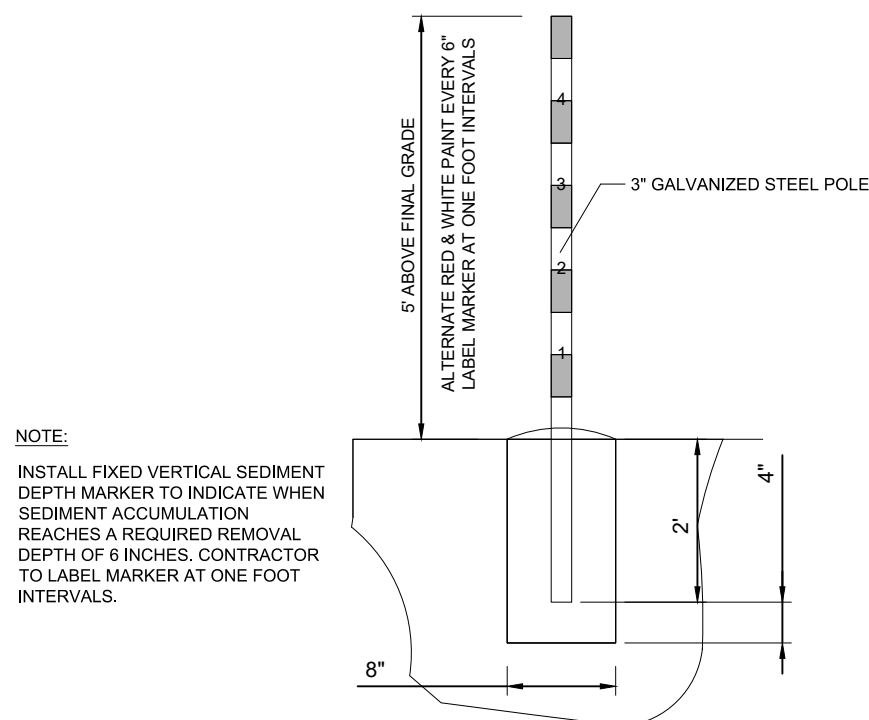


CONTROLLER NOTES:

- CONTRACTOR TO COORDINATE INSTALLATION OF PLUG VALVE W/ 24V ON/OFF EMO AND CONTROLLER WITH VALVE DIRECTION LLC
- CRISPIN SERIES 800 ECCENTRIC PLUG VALVE WITH 24V ON/OFF EMO AND CONTROLLER (BY VALVE DIRECTION LLC) - OR APPROVED EQUAL
- ALARM MODULE WITH VISUAL ALARM SHALL BE REQUIRED. COORDINATE INSTALLATION WITH VALVE DIRECTION LLC. MOUNT ALARM TO OUTSIDE OF BUILDING FACING POND. VISUAL ALARM SHALL INITIATE AT VALVE MALFUNCTION.
- VALVE TO BE CRISPIN SERIES 800 ECCENTRIC PLUG VALVE WITH 150# FLANGED ENDS OR APPROVED EQUAL. ACTUATOR TO BE IN "NORMALLY CLOSED" POSITION.
- ELECTRIC ACTUATOR TO PROMATION P4 SERIES ELECTRIC MOTOR OPERATOR FOR OPEN/CLOSE SERVICE OR APPROVED EQUAL.
- LEVEL SWITCHES TO BE MOUNTED WITHIN 18" PERFORATED PIPE LOCATED IN TRASH RACK AS SHOW ON PLAN.
- PROVIDE TOPOINT SOLAR JTM SOLAR CHARGING PANEL AND BATTERY BACKUP SYSTEM.
- PROVIDE LOGIC CONTROLLER (COORDINATE WITH VALVE DIRECTION LLC).
- LOGIC CONTROLLER TO BE IN A LOCKABLE, WEATHER PROOF BOX PROVIDED BY VALVE DIRECTION LLC.

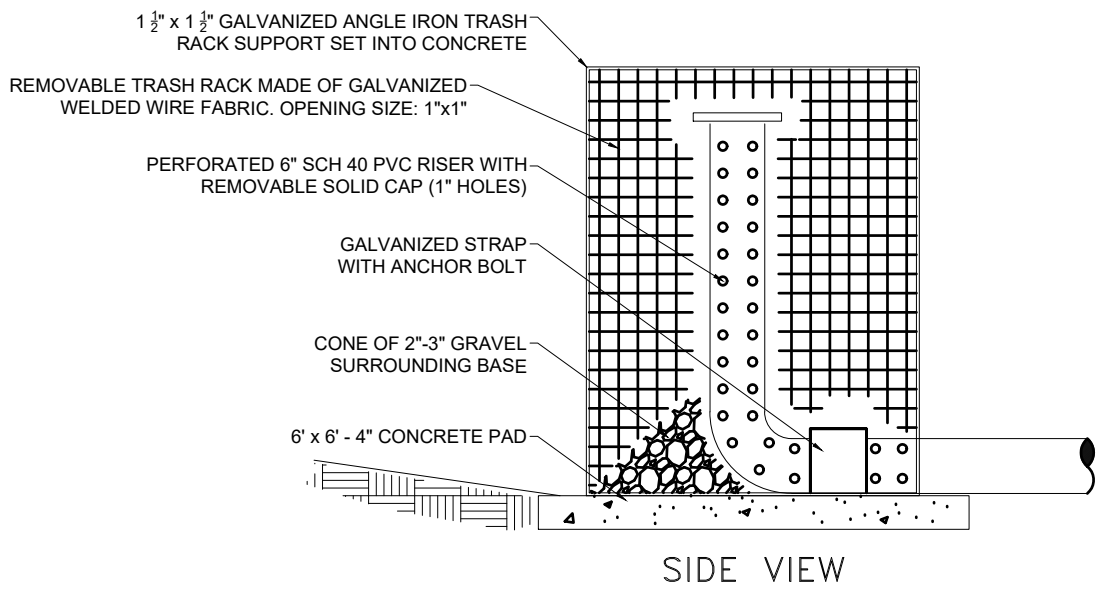
VALVE CIRCUIT

SCALE: N.T.S.

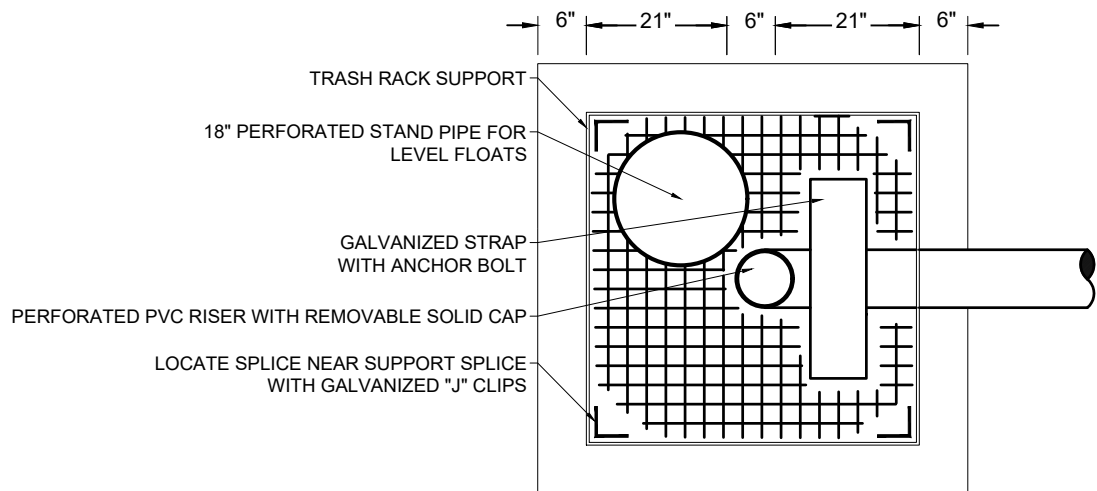


SEDIMENT DEPTH MARKER DETAIL

SCALE: N.T.S.



SIDE VIEW



TOP VIEW

PERFORATED RISER PIPE DETAIL

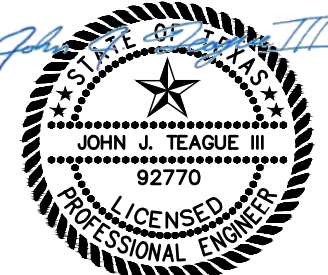
SCALE: N.T.S.

ECKERMANN ENGINEERING, INC.

901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

**138 BEVERS ROAD
WAREHOUSE
EXPANSION**
138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

**WATER QUALITY
CALCULATIONS
& DETAILS**



5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

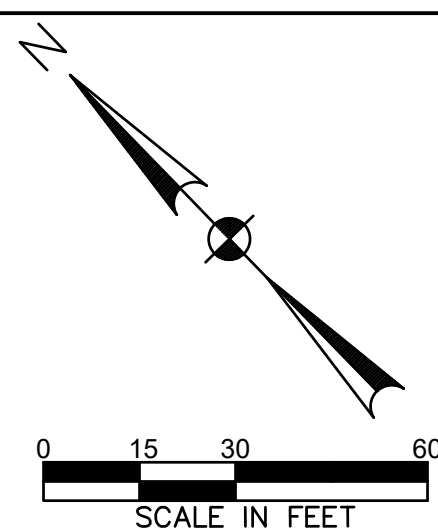
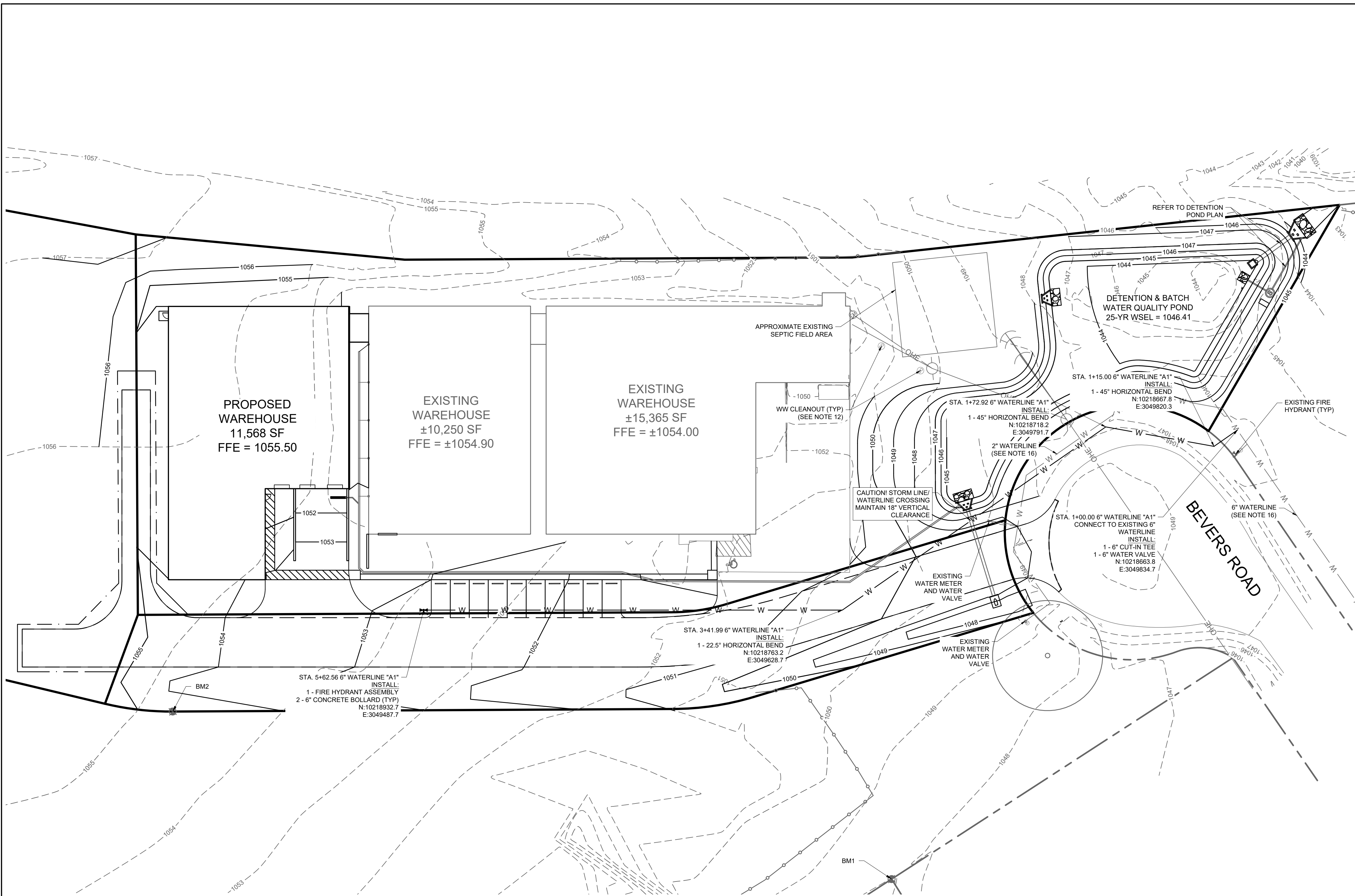
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Sheet 14 OF 19



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LEGEND:

PROPERTY LINE	---
EXISTING MAJOR CONTOUR	--- 1050 ---
EXISTING MINOR CONTOUR	--- 1051 ---
EXISTING EASEMENT LINE	---
SETBACK LINE	---
EXISTING UNDERGROUND GAS LINE	---
EXISTING WATER LINE	---
EXISTING OVERHEAD ELECTRIC	---
EXISTING WASTEWATER LINE	---
BENCHMARK	⊕
EXISTING WASTEWATER MANHOLE	⊕

- NOTES:
- SURVEY INFORMATION PROVIDED BY CUPLIN AND ASSOCIATES LAND SURVEYORS AND PLANNERS, INC., RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
 - WATER SERVICE IS PROVIDED BY THE CITY OF LIBERTY HILL (512) 778-5449. CONTRACTOR SHALL CONTACT EACH UTILITY PROVIDER AT LEAST 48 HOURS BEFORE CONNECTING TO EXISTING WATER AND WASTEWATER FACILITIES.
 - CONTRACTOR TO COORDINATE WITH MEP PLANS AT ALL UTILITY STUB OUTS.
 - CONTRACTOR TO ENSURE FIRE HYDRANTS, METERS OR VALVES ARE NOT PLACED IN SIDEWALKS.
 - UNLESS OTHERWISE NOTED, WATER LINES LESS THAN 4" IN DIAMETER SHALL BE SCH 40 PVC PIPE, WATER LINES 4" - 12" IN DIAMETER SHALL BE C900 DR14 PVC PIPE, WATER LINES LARGER THAN 12" IN DIAMETER SHALL BE C905 DR14 PVC PIPE.
 - CONTRACTOR TO COORDINATE AND INSTALL NECESSARY IRRIGATION, ELECTRICAL AND TELECOMMUNICATIONS SLEEVES PRIOR TO PLACEMENT OF PAVEMENT.
 - ALL BENDS, TEES, REDUCERS AND GATE VALVES SHALL BE RESTRAINED PER CITY OF LIBERTY HILL STANDARDS.
 - MINIMUM CLEARANCE BETWEEN WATER AND WASTEWATER LINES SHALL COMPLY WITH TCEQ REQUIREMENTS.
 - REFER TO SITE PLAN FOR UTILITY EASEMENT LOCATIONS.
 - CONTRACTOR SHALL COORDINATE LIGHT POLE LOCATIONS AND SLEEVING FOR ELECTRICAL SERVICE WITH MEP.
 - COORDINATE LOCATION, SIZE AND TYPE OF LIGHTING WITH MEP AND BUILDING PLANS.
 - CONTRACTOR SHALL ADJUST ALL VISIBLE UTILITY FEATURES TO FINISHED GRADE AS NEEDED AT NO ADDITIONAL COST TO OWNER.
 - LOCATION OF PUBLIC AND FRANCHISE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL THE ONE CALL CENTER (811) AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITIES WHO DO NOT SUBSCRIBE TO THE ONE CALL PROGRAM FOR LINE MARKINGS THE CONTRACTOR BEARS THE SOLD RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THE FACILITIES.
 - CONTRACTOR SHALL VERIFY EXISTING UTILITY LINE TYPE, LOCATION, MATERIAL AND DEPTH PRIOR TO CONSTRUCTION.
 - ALL WATER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF LIBERTY HILL CONSTRUCTION STANDARDS.
 - NO DEPTH INFORMATION WAS AVAILABLE FOR EXISTING WATER LINE AT THE TIME OF DESIGN. ALL DEPTHS FOR EXISTING WATER LINE ARE ASSUMED TO BE 4' BELOW EXISTING GRADE TO TOP OF WATER LINE. CONTRACTOR SHALL VERIFY DEPTH OF EXISTING WATER LINE AT CROSSINGS PRIOR TO CONSTRUCTION AND ADJUST EXISTING WATER LINE AS NEEDED TO MAINTAIN MINIMUM CLEARANCE.
 - MINIMUM COVER FOR ALL WATER LINES SHALL BE 48".
 - CONTRACTOR SHALL UTILIZE UP TO A MAXIMUM OF 2" HORIZONTAL DEFLECTION AS NEEDED IN JOINTS.

BENCHMARK INFORMATION:

BM 1: 1/2" IRON PIN ELEV = 1048.33 N: 10218652.57 E: 3049536.37
BM 2: 1/2" IRON PIN ELEV = 1054.83 N: 10219000.22 E: 3049362.01
VERTICAL DATUM: NAVD 88



No.	Date	Revisions	App.

ECKERMANN ENGINEERING, INC.
901 MAIN STREET
LIBERTY HILL, TX 78642
PHONE: 512-960-1098
TBP# FIRM NO. F-10496

138 BEVERS ROAD WAREHOUSE EXPANSION
LIBERTY HILL, TEXAS 78642

UTILITY PLAN

Professional Engineer Seal:
JOHN J. TEAGUE II
92770
LICENSED PROFESSIONAL ENGINEER
5/20/2024

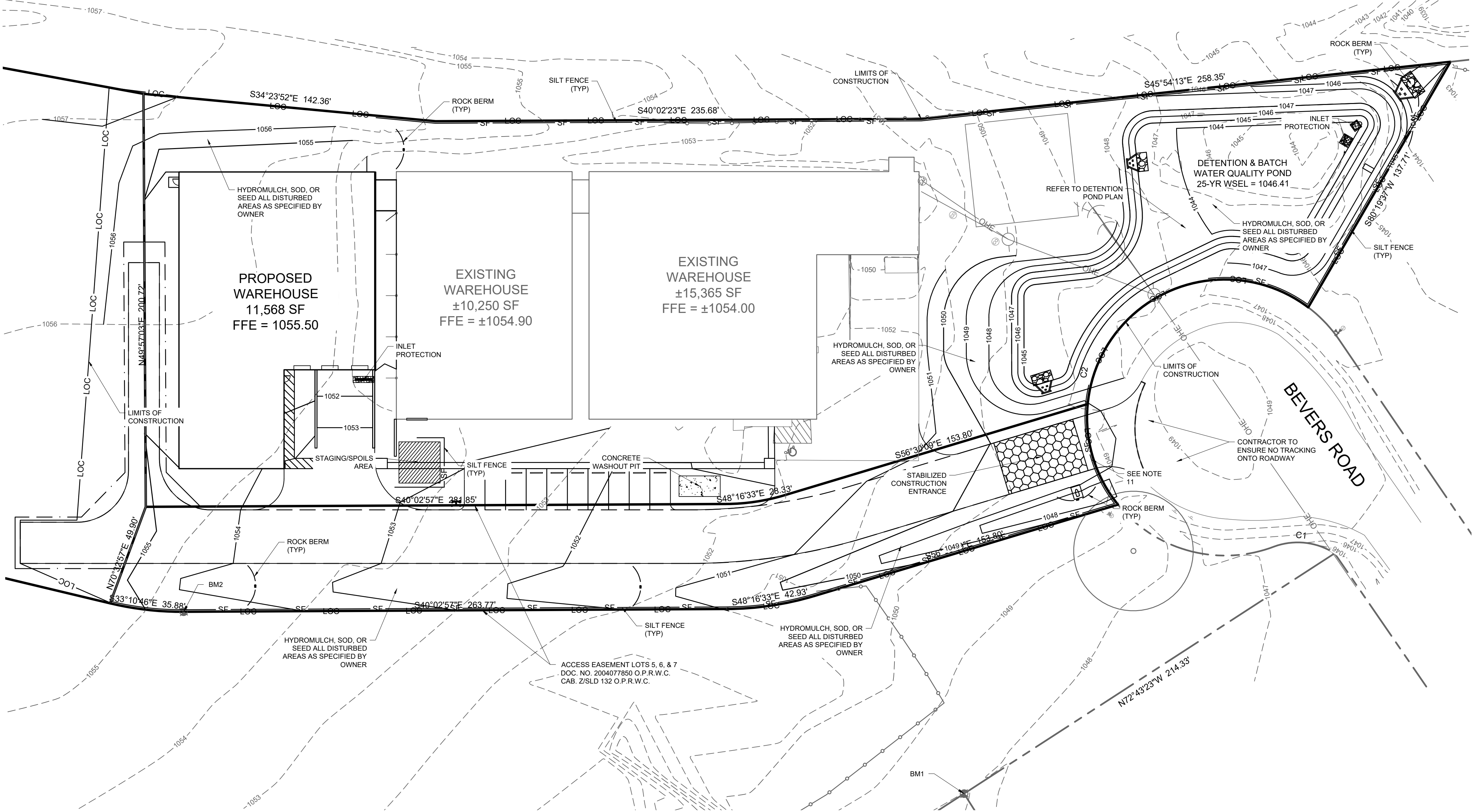
Project No.:	23039
Issued:	5/20/2024
Drawn By:	WS, QS
Checked By:	JT III

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C:\Users\WilliamSmith\OneDrive\Files\2023\Jobs\23039 - Bevers - 138 Bevers Road Warehouse.dwg\Sheets\23039_EROS.dwg



LEGEND:

PROPERTY LINE	---
EXISTING MAJOR CONTOUR	---1050---
EXISTING MINOR CONTOUR	---1051---
MAJOR CONTOUR	---1050---
MINOR CONTOUR	---1051---
SILT FENCE	---SF---
ROCK BERM	---RB---
LIMITS OF CONSTRUCTION	---LOC---
BENCHMARK	⊕
INLET PROTECTION	⊗

SPOILS/STAGING AREA	
CONCRETE WASHOUT PIT	
STABILIZED CONSTRUCTION ENTRANCE	

NOTES:

1. SURVEY INFORMATION PROVIDED BY CUPLIN & ASSOCIATES, INC. RECEIVED ELECTRONICALLY OCTOBER 2023. NO WARRANTY IS EXPRESSED AS TO ITS ACCURACY.
2. CONTRACTOR IS RESPONSIBLE FOR DEWATERING OF WORK AREAS. WHEN REQUIRED CONTRACTOR SHALL DEWATER EXCAVATED AREAS USING A CITY METHOD (I.E. SILT FENCE, HAY BALE DIKE, ROCK BERM, ETC.)
3. CONTRACTOR SHALL PROVIDE TEMPORARY STAGING AND SPOILS AREA AS NEEDED AND PROVIDE ADDITIONAL SILT FENCE ALONG THE DOWNSTREAM SIDE OF THESE AREAS THROUGHOUT CONSTRUCTION.
4. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP, OR REVEGETATION MATTING.
5. CITY INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/ SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY RULES AND REGULATIONS.
6. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER CITY REQUIREMENTS, OR AS DIRECTED BY THE CITY INSPECTOR.
7. REFER TO GENERAL NOTES FOR THE SEQUENCE OF CONSTRUCTION.
8. CONCRETE WASHOUT AND STAGING / SPOILS AREA MAYBE RELOCATED AS NEEDED TO COMPLETE CONSTRUCTION ACTIVITIES.
9. ALL TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED PER THE CITY OF LIBERTY HILL STANDARDS.
10. ALL DISTURBED AREAS SHALL BE REVEGETATED PER LANDSCAPE ARCHITECTURE PLANS OR THE PERMANENT STABILIZED NOTES ON THE GENERAL NOTES SHEET.
11. SILT FENCE SHALL BE RELOCATED AS NECESSARY TO ALLOW FOR CONSTRUCTION WITHIN SUBJECT AREA, TRIANGULAR FILTER DIKE MAY BE USED AS SUBSTITUTE TO SILT FENCE WHEN INSTALLED ON PAVEMENT.

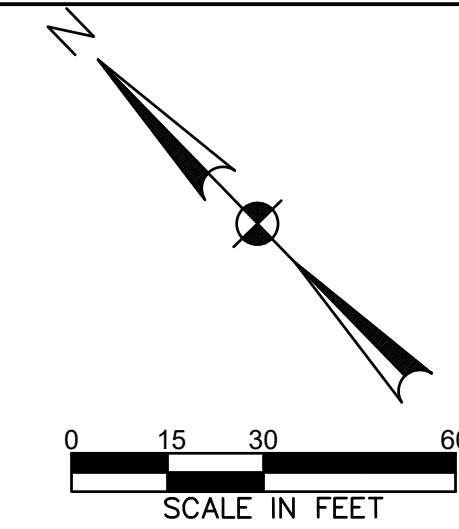
EROSION CONTROL QUANTITIES		
STABILIZED CONSTRUCTION ENTRANCE	1	EA
LIMITS OF CONSTRUCTION	2.96	AC
SILT FENCE	1325	LF
INLET PROTECTION	3	EA
ROCK BERM	5	EA

BENCHMARK INFORMATION:

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BM 2: 1/2" IRON PIN
ELEV = 1054.83
N: 10219000.22
E: 3049362.01

VERTICAL DATUM: NAVD 88



**ECKERMANN
ENGINEERING, INC.**

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LIBERTY HILL, TX 78642
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TBP# FIRM NO. F-10496

**138 BEVERS ROAD
WAREHOUSE
EXPANSION**

138 BEVERS ROAD
LIBERTY HILL, TEXAS 78642

**EROSION
CONTROL &
SEDIMENTATION
PLAN**



5/20/2024

Project No.: 23039
Issued: 5/20/2024
Drawn By: WS, QS
Checked By: JT III

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150 mm (6")

A

D

150 mm (6")

B

B

B

PLAN

150 mm (6")

A

L

900 mm (36") MIN.

1:1 SLOPE

150 mm (6")

300 mm (12")

100 mm (4")

PIPE FROM FILTRATION POND

CUT WELDED WIRE FABRIC TO WITHIN 50 mm (2") OF PIPE

1% MIN. SLOPE

300 mm (12")

MATCH EXISTING GRADE

150 mm X 150 mm X MW9 X MW9 (6" X 6" X W 1.4 X W 1.4) WELDED WIRE FABRIC

50 mm (2") CLR.

100 mm (4") CLASS "A" CONCRETE ITEM 403S

ROCK RIP RAP (STONE SHALL BE 125 mm TO 200 mm (5" TO 8" IN SIZE))

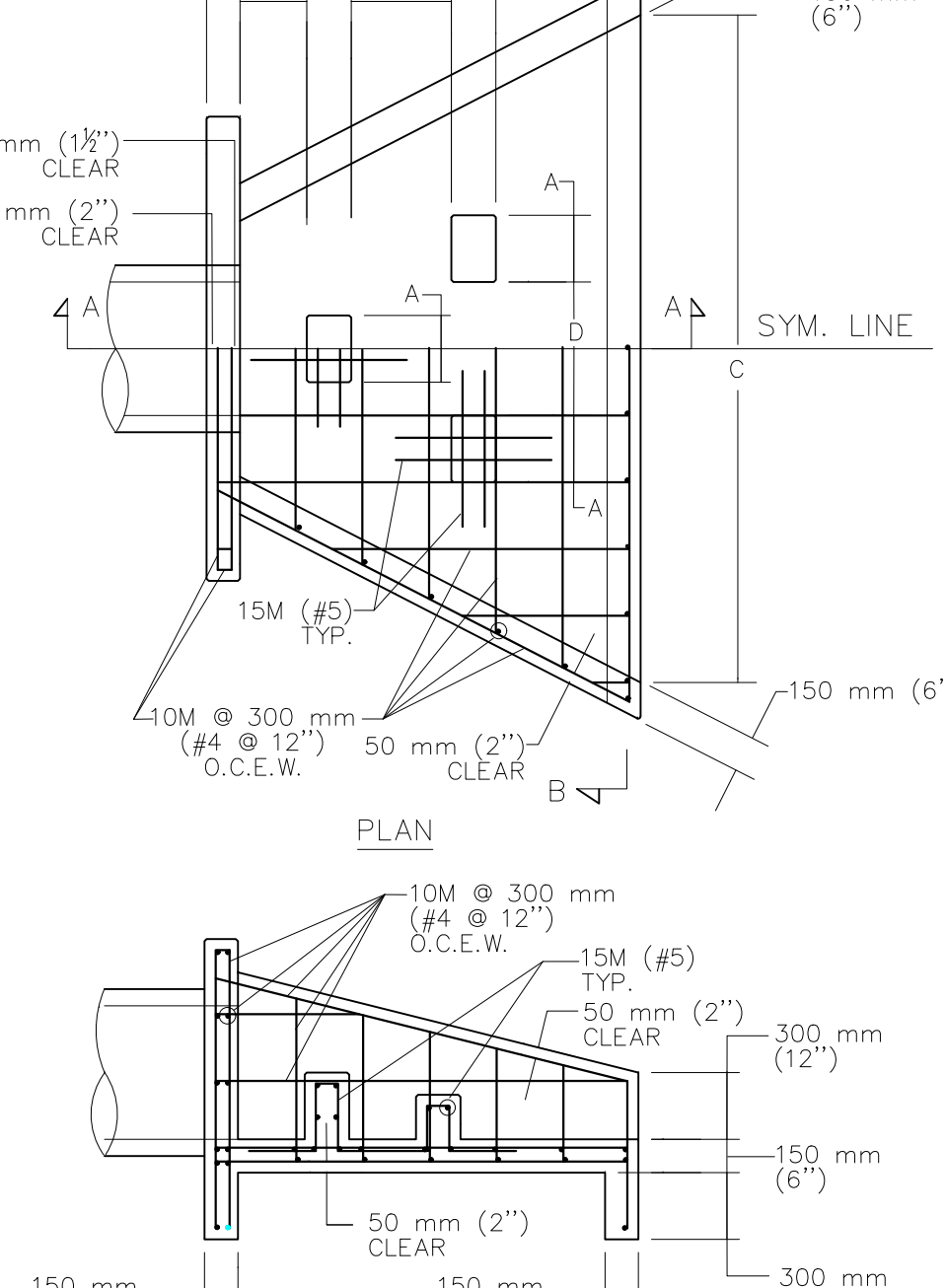
SECTION A - A

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		HEADWALL FOR FILTRATION PONDS W/OUTFALL PIPE 150 mm (6") TO 375 mm (15") DIA.
RECORD COPY SIGNED BY GEORGE E. OSWALD	3/15/05	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.
ADOPTE		STANDARD NO. 508S-15 1 OF 2

SECTION B - B

A	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	675 mm (27")
B	750 mm (30")	800 mm (32")	850 mm (34")	1.05 m (42")	1.27 m (51")
D	150 mm (6")	200 mm (8")	250 mm (10")	300 mm (12")	375 mm (15")
L	600 mm (24")	600 mm (24")	750 mm (30")	900 mm (36")	1.2 m (48")

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW		HEADWALL FOR FILTRATION PONDS W/OUTFALL PIPE 150 mm (6") TO 375 mm (15") DIA.	
RECORD COPY SIGNED BY GEORGE E. OSWALD	3/15/05	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 508S-15 2 OF 2
ADDED			

		<p>STANDARD HEADWALL AND ENERGY DISSIPATORS</p>
<p>CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT</p>	<p>RECORD COPY SIGNED BY BILL GARDNER</p>	<p>3/20/07 ADOPTED</p>
<p>THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.</p>		<p>STANDARD NO. 508S-13 1 OF 2</p>

SECTION B-B

NOTES:

1. ALL CONCRETE SHALL BE TYPE "C" AS PER SPEC. 403S, CONCRETE FOR STRUCTURES.
2. CHAMFER ALL EXTERNAL VISIBLE CORNERS.
3. DISSIPATOR BLOCKS REQUIRED ON DISCHARGE HEADWALLS ONLY.

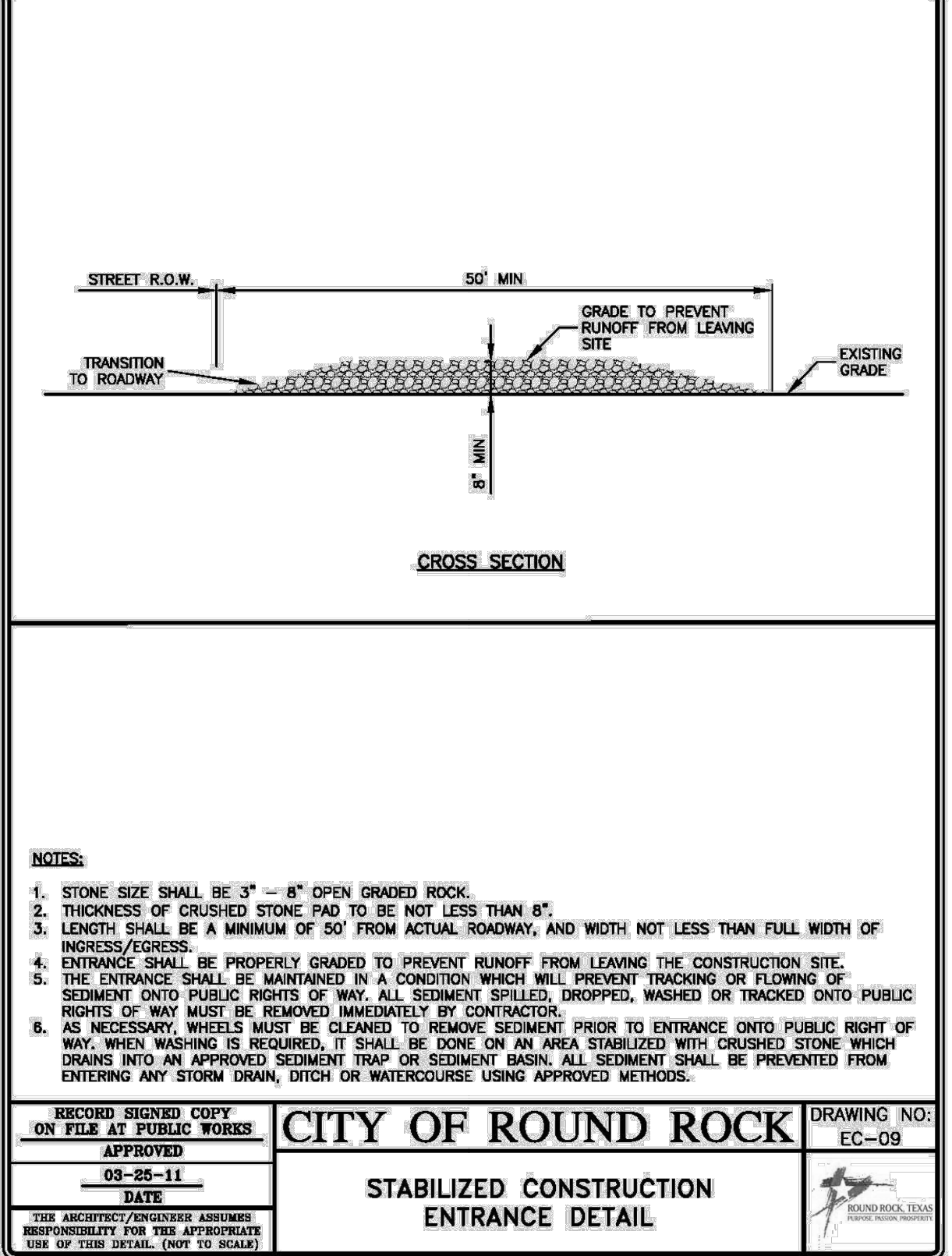
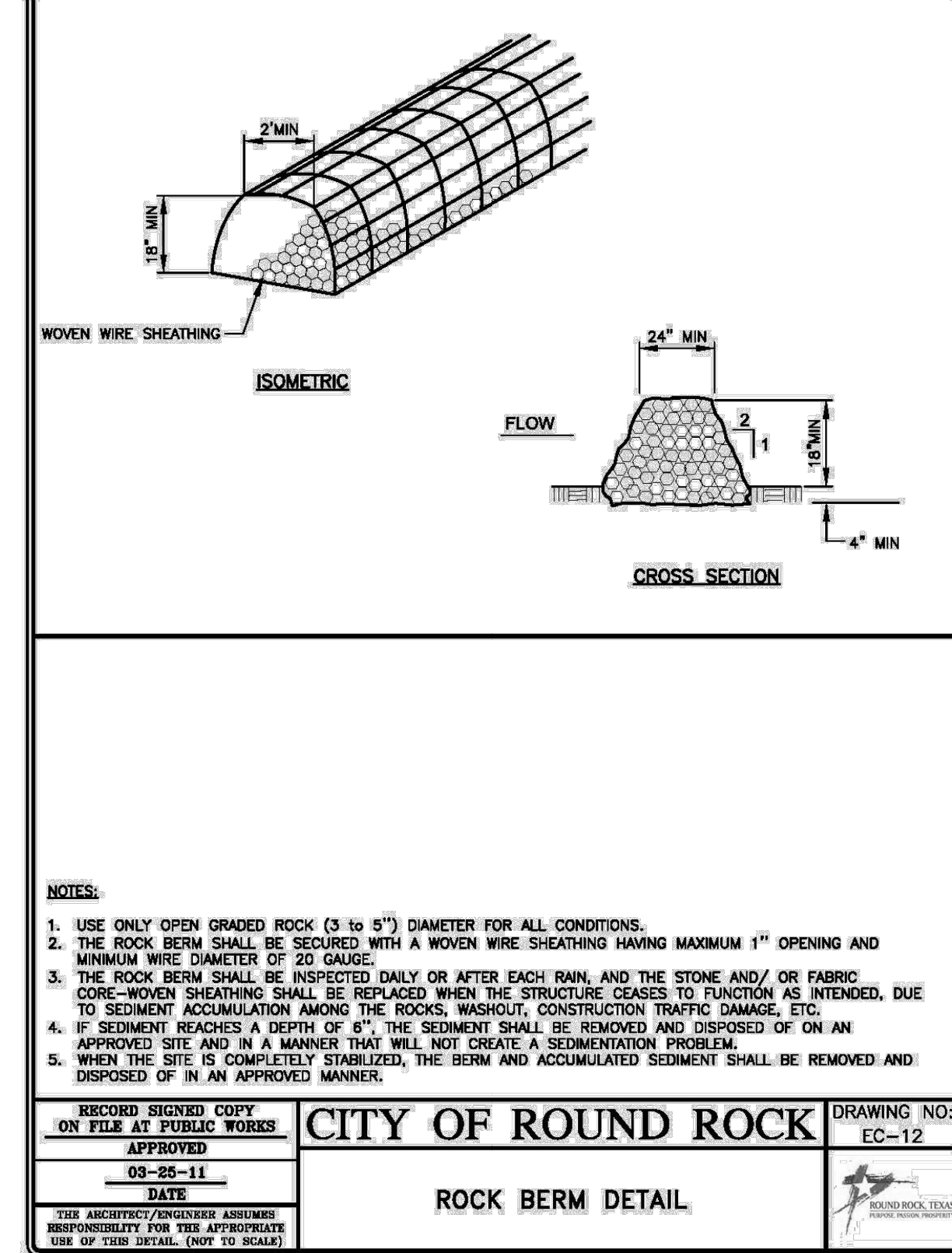
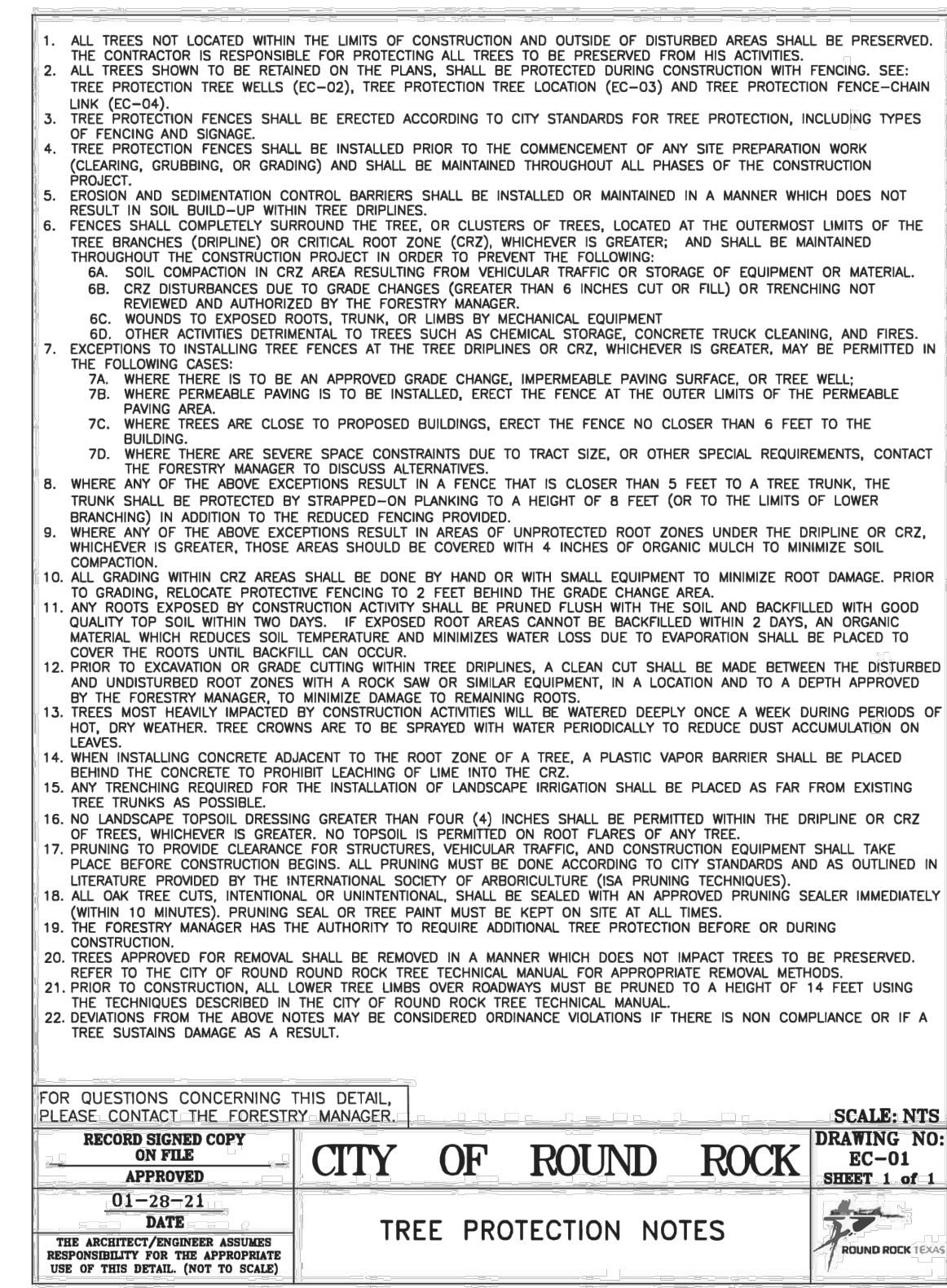
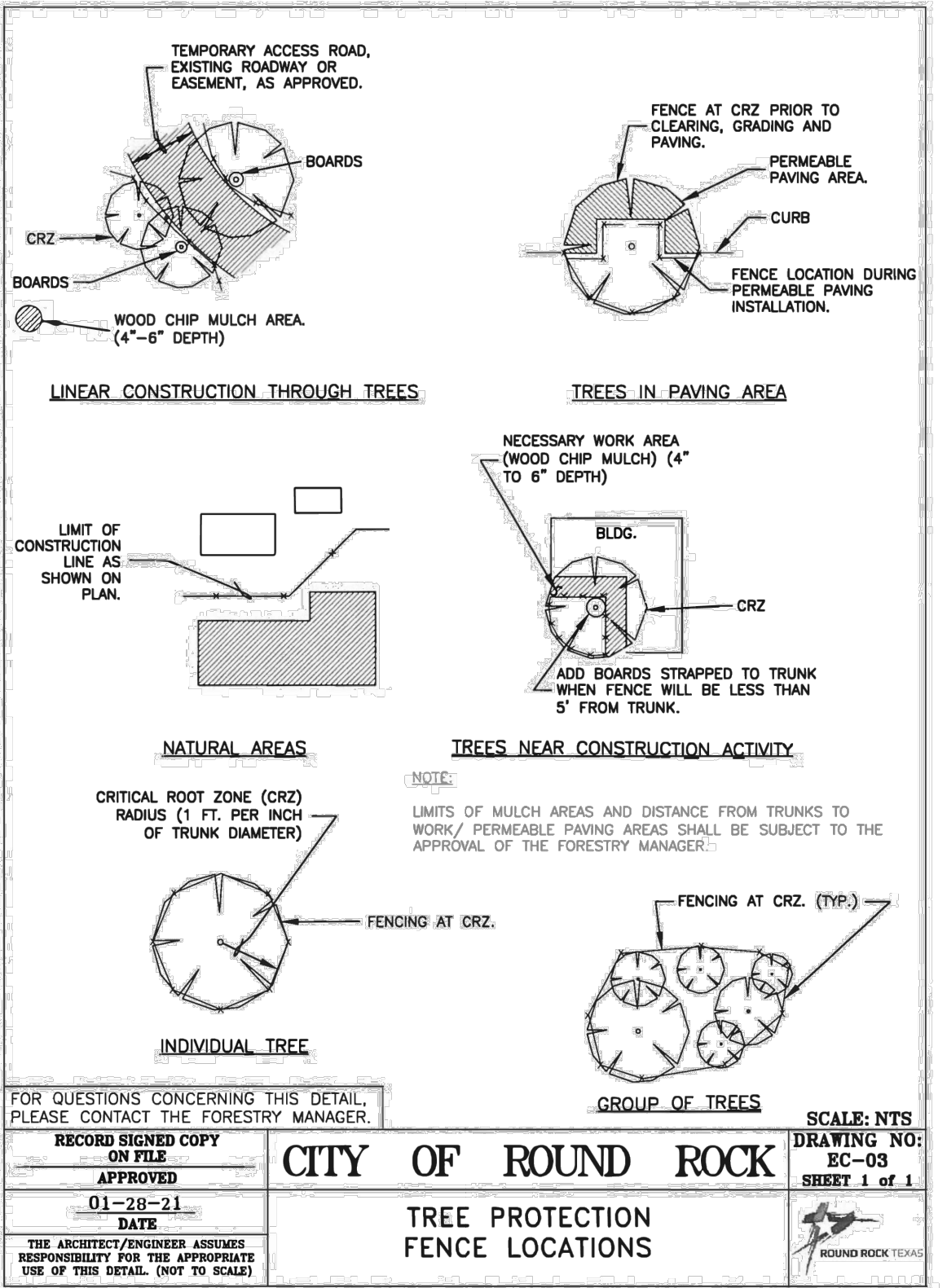
D	457 mm (18")	533 mm (21")	610 mm (24")	686 mm (27")	765 mm (30")	838 mm (33")	914 mm (36")	1,067 mm (42")	1,219 mm (48")	1,372 mm (54")	1,524 mm (60")
A	225 mm (9")	250 mm (10")	300 mm (12")	350 mm (14")	375 mm (15")	400 mm (16")	450 mm (18")	525 mm (21")	600 mm (24")	675 mm (27")	750 mm (30")
B	150 mm (6")	175 mm (7")	200 mm (8")	225 mm (9")	250 mm (10")	275 mm (11")	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")
C	2.29 m (9'0")	2.67 m (10'5")	3.05 m (12'0")	3.43 m (13'5")	3.81 m (15'0")	4.19 m (16'5")	4.57 m (21'0")	5.33 m (24'0")	6.10 m (27'0")	6.86 m (30'0")	7.62 m (33'0")
L	1.37 m (5'4")	1.60 m (6'3")	1.83 m (7'2")	2.06 m (8'1")	2.29 m (9'0")	2.51 m (9'9")	2.74 m (10'8")	3.20 m (12'6")	3.66 m (14'4")	4.11 m (16'2")	4.57 m (18'0")
E	300 mm (12")	350 mm (14")	400 mm (16")	450 mm (18")	500 mm (20")	550 mm (22")	600 mm (24")	700 mm (28")	800 mm (32")	900 mm (36")	1000 mm (40")

DIMENSIONS IN MILLIMETERS, METERS AND (INCHES).

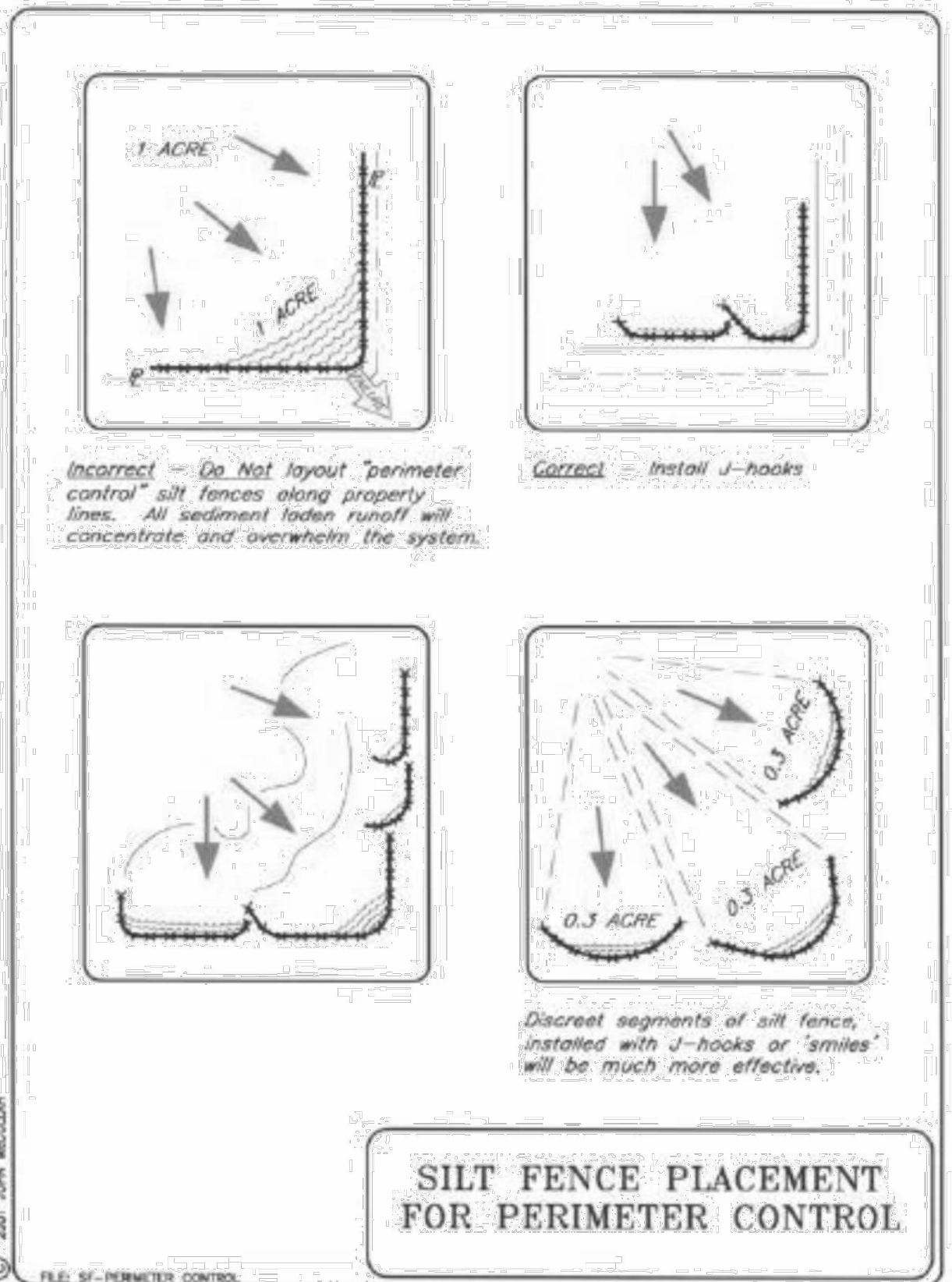
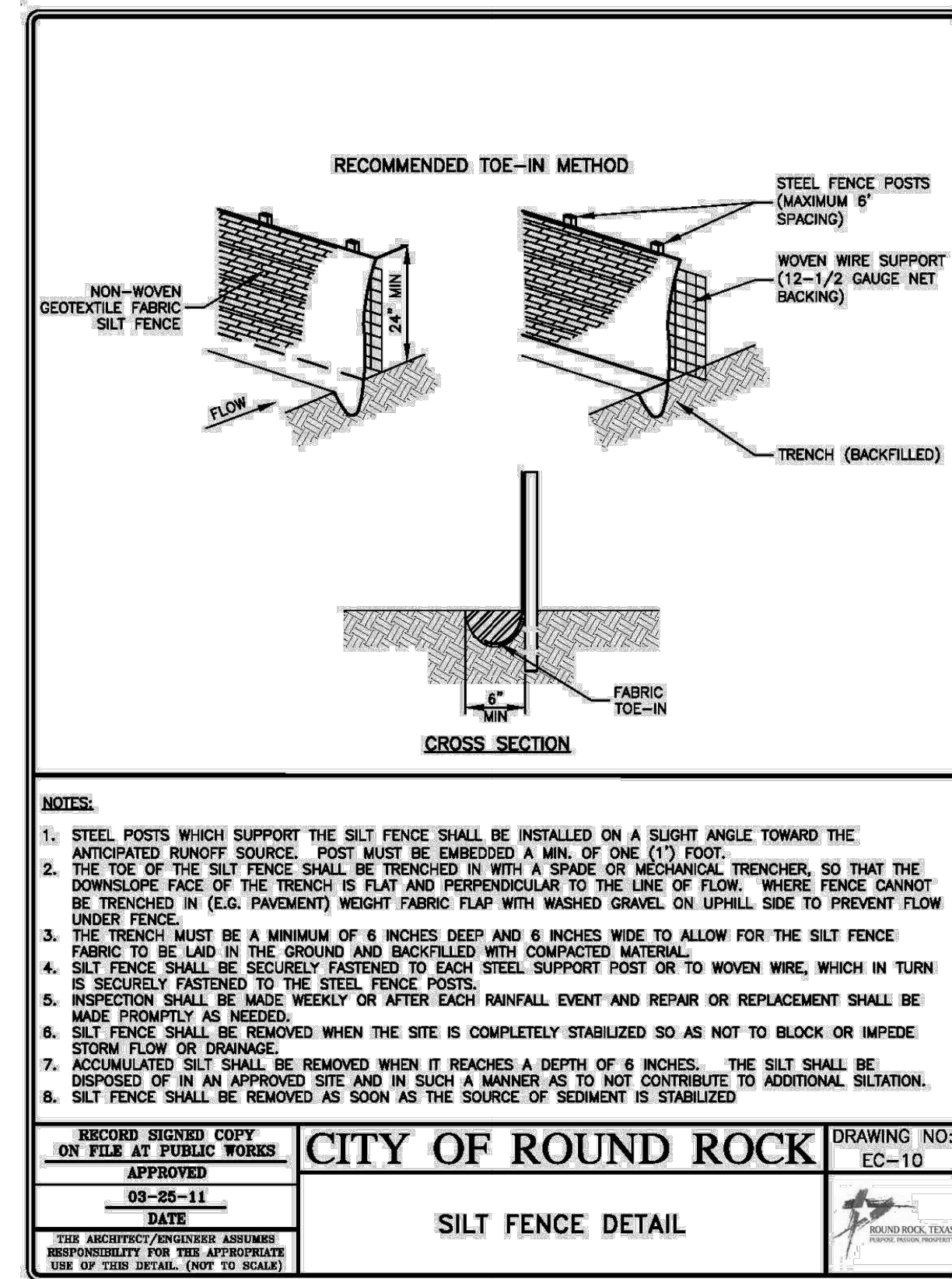
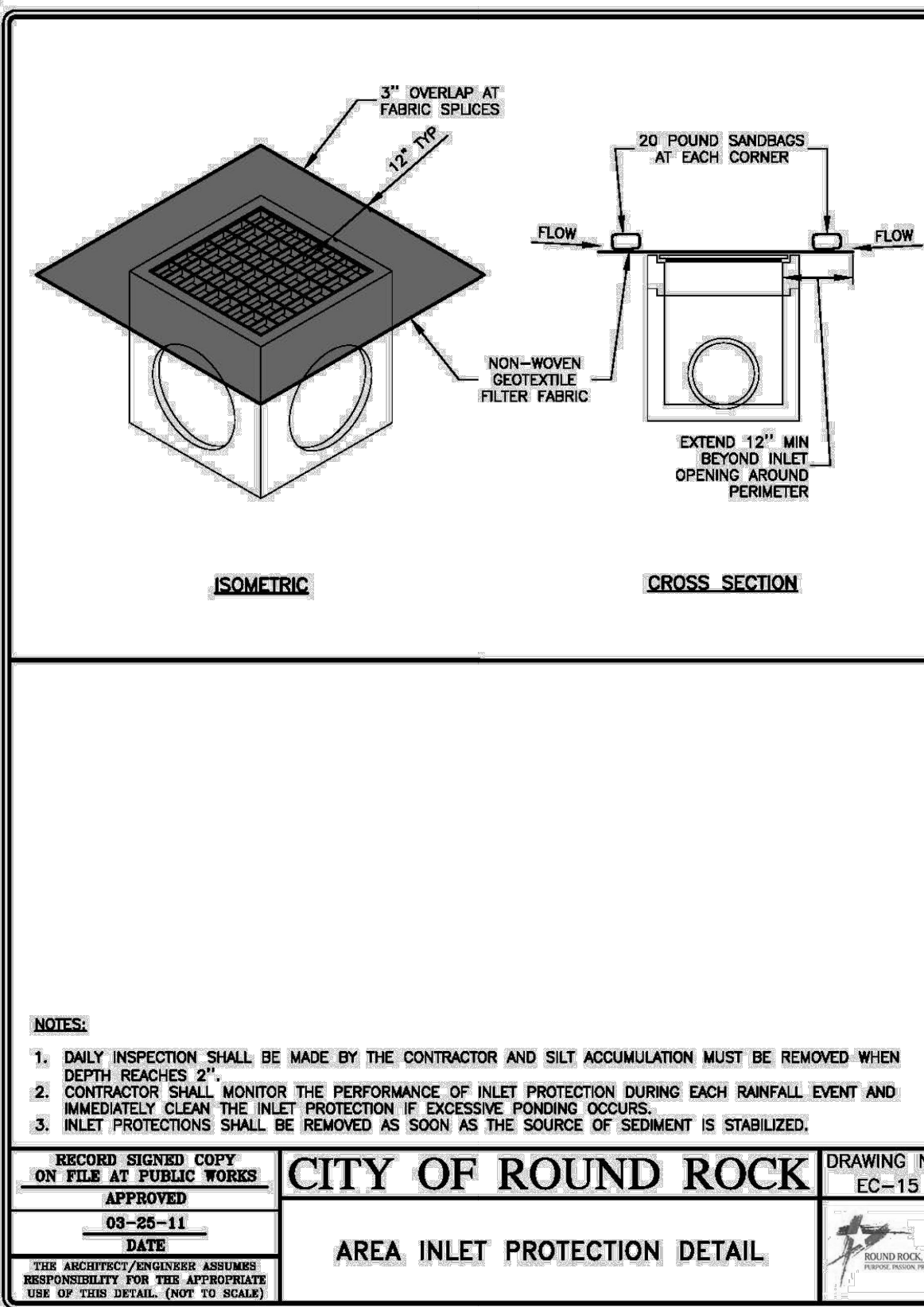
DISCHARGE VELOCITIES GREATER THAN 3 METERS/SECOND (10 fps) REQUIRE ROCK OUTLET PROTECTION.

CITY OF AUSTIN DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW	STANDARD HEADWALL AND ENERGY DISSIPATORS	STANDARD NO. 508S-13
RECORD COPY SIGNED BY BILL GARDNER	08/20/07 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

BEFORE YOU DIG
Texas 811.com



CONCRETE WASHOUT PIT OR OWNER APPROVED EQUAL (FOR REFERENCE ONLY)

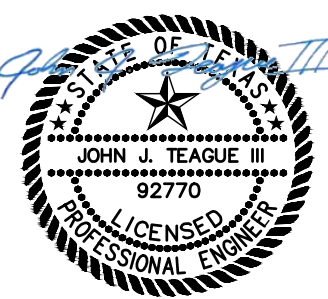


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