

11/23/2023

CONTRIBUTORY ZONE REPORT MINYARD

Project Location:

1800 N. Bell Blvd.
Cedar Park, Tx 78613

Prepared by:

Ahmed El Seweify, P.E.

Contributing Zone Plan Checklist

- **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- **Contributing Zone Plan Application (TCEQ-10257)**
 - Attachment A - Road Map
 - Attachment B - USGS Quadrangle Map
 - Attachment C - Project Narrative
 - 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)
 - Attachment J - BMPs for Upgradient Stormwater
 - Attachment K - BMPs for On-site Stormwater
 - 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)**

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: Minyard Sons Services Inc					2. Regulated Entity No.:					
3. Customer Name: Richard Minyard					4. Customer No.:					
5. Project Type: (Please circle/check one)		<input checked="" type="radio"/> New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)		WPAP	<input checked="" type="radio"/> CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)		Residential		<input checked="" type="radio"/> Non-residential			8. Site (acres):		6.361 Acres	
9. Application Fee:		\$5,000.00		10. Permanent BMP(s):			Sand Filter			
11. SCS (Linear Ft.):				12. AST/UST (No. Tanks):						
13. County:		Williamson		14. Watershed:			South Brushy Creek			

Application Distribution

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

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

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

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

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

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

Ahmed El Seweify

Print Name of Customer/Authorized Agent

Ahmed El Seweify

11/23/2023

Signature of Customer/Authorized Agent

Date

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

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

Contributing Zone Plan Application

Texas Commission on Environmental Quality

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

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

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

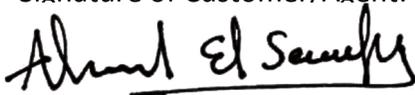
Signature

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

Print Name of Customer/Agent: Ahmed El Seweify

Date: 11/23/2023

Signature of Customer/Agent:



Regulated Entity Name: Minyard Sons Services Inc.

Project Information

1. County:Williamson
2. Stream Basin:South Brushy Creek
3. Groundwater Conservation District (if applicable): _____
4. Customer (Applicant):
Contact Person: Richard Minyard
Entity: Minyard Sons Services, Inc.
Mailing Address:1800 N. Bell Blvd,
City, State:Cedar Park, Texas, Zip: 78613
Fax: _____
5. Telephone:(512)721-6307
Email Address:rminyard@minyardcompany.com

5. Agent/Representative (If any): Contact

Person: Ahmed El Seweify

Entity: AES Engineering Consultant

Mailing Address: 2514 Preserve Trail

City, State: Cedar Park, TX 78613

Telephone: 512-785-9034

Email Address: Contact@aes-engs.com

Zip: _____

Fax: _____

6. Project Location:

- The project site is located inside the city limits of Cedar Park .
- 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.

1800 N. Bell Blvd, Cedar Park, Texas 78613

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): 6.361 Acres

Total disturbed area: 6.361 Acres

14. Estimated projected population: _____

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	63,480	÷ 43,560 =	1.457
Parking	99,143	÷ 43,560 =	2.276
Other paved surfaces		÷ 43,560 =	
Total Impervious Cover	162,623	÷ 43,560 =	3.733

Total Impervious Cover 3.733 ÷ **Total Acreage** 6.361 X 100 = 58.69 % 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 Cedar Park Wastewater 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" = _____'.
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

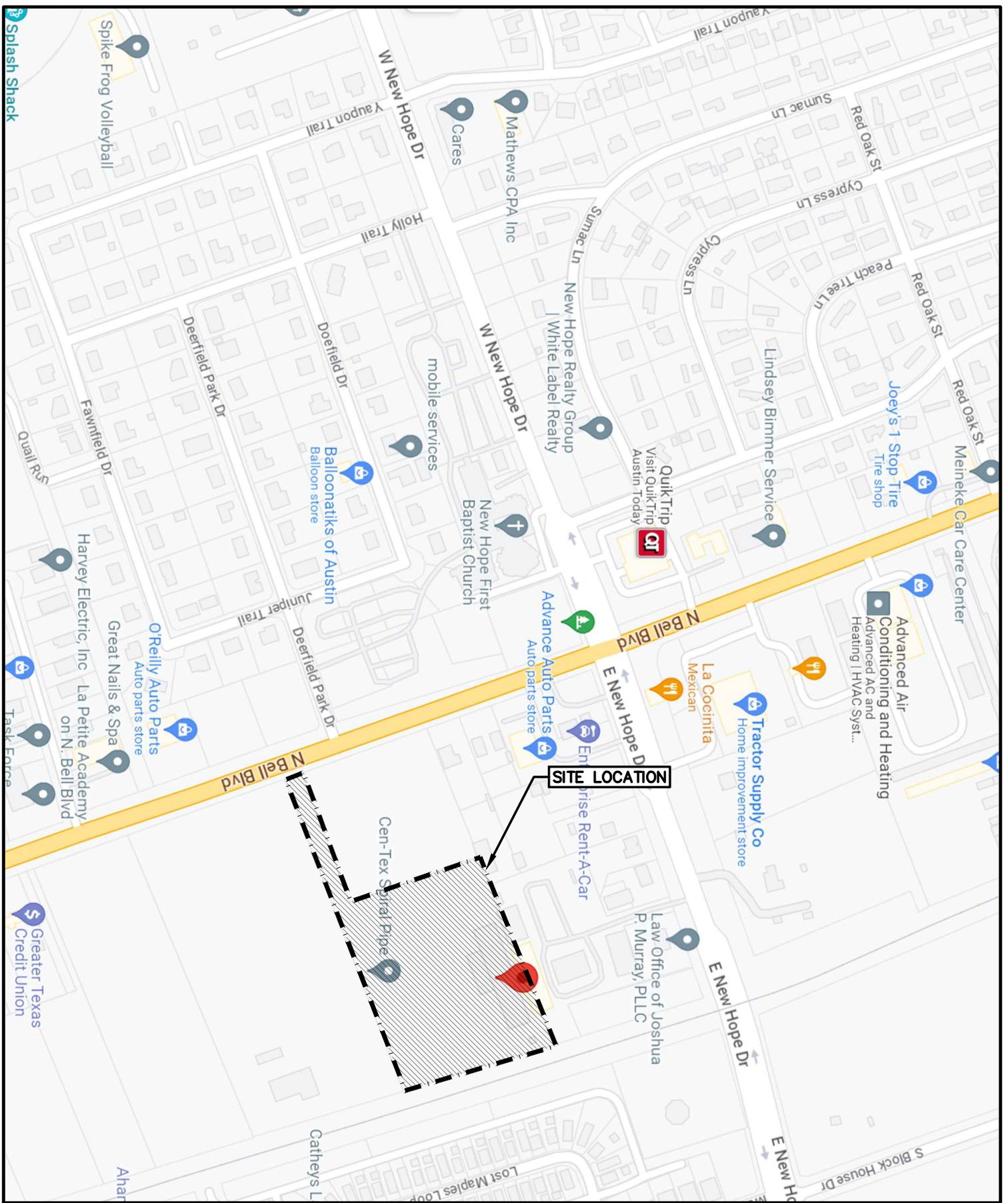
Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

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.



VICINITY MAP

MINYARD SONS SERVICES
1800 N BELL BLVD,
CEDAR PARK, TX
78613

PAGE
1 OF 1

Minyard Sons Services
Project Description-Attachment C

This 6.361-acre project site is located at 1800 N. Bell Blvd, Cedar Park, Texas. The existing conditions includes an 18000 sq.ft warehouse and asphalt pavement built prior to 1985, the proposed development will include an additional 25800 sq.ft warehouse and a two story office building. We are proposing a detention pond and sand filtration pond.

Existing Conditions:

The existing site is covered with native grass/weeds and minor scattered brushes and some trees. There are no other paved areas or existing buildings on the site.

Proposed Conditions:

The limit of construction is 6.361 acres and the proposed impervious cover is 58.68%

Soil Condition: Clayey Sand.

Disturbance activities:

Grading and excavation on the entire site.

The pavement on the entire site.

Building at the building areas.

Landscaping.

Minyard Sons Services
Factors Affecting Water Quality-Attachment D

The following construction activities may affect surface and groundwater quality:

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (that could be discharged if exposed to stormwater)	Location on Site
Grading, Excavation	Oil, Gasoline, grease, hydraulic fluid, coolant.	Entire site
Pavement	Cement	Entire site
Building	Stucco, paint	At Building
*Landscaping (if any)	Fertilizer, pesticide	All landscape areas

Minyard Sons Services
Volume and Character of Storm Water-Attachment "E"

A pre and post development drainage analysis was performed to determine flow for 25- and 100-year storm event as follow:

At pre-developed condition, the flow for Q (25) and Q (100) are 45.38 cfs and 62.574 cfs, respectively. At post developed condition the flow for Q(25) and Q(100) are 45.42 cfs and 62.14, respectively.

We are proposing a Filtration-Sedimentation Pond to treat the runoff produced from the proposed development.

Table 2.2 on the City of Austin Drainage manual has been used to determine the CN Value, see construction plan for details.

Hec-HMS has been used to determine the runoff, model available upon request, please email contact@aes-engs.com to request a copy if needed.

Temporary Erosion and sedimentation control such as silt fence, concrete washout, spoil area, and construction entrance have been provided to prevent sediments and pollutants from leaving the site. In addition, a water-quality pond has been provided, please see the construction plan for details.

Minyard Sons Services
BMP For Upgradient stormwater- Attachment J

Temporary erosion and sedimentation control such as Silt fence, construction entrance, concrete washout have been added to the plan to contain upgradient stormwater.

Filtration and sedimentation water quality pond has also been provided as a permanent measure to contain upgradient stormwater.

Minyard Sons Services
Building BMP for On-Site Storm Water- Attachment K

We are proposing a Sand Filtration Pond to treat the stormwater produced for the proposed development.

Streams-Attachment L

The proposed Sediment/Filtration pond will serve as a measure to prevent pollutants from entering the surface stream.

Minyard Sons Services
Construction Plans-Attachment M

The construction plan is provided in the application package. TCEQ construction notes can be found on General Notes included in the plan set. All proposed structural BMP(s) are shown on plans.

1. The Required Load Reduction for the total project:

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

County =	Williamson	
Total project area included in plan * =	6.36	acres
Predevelopment impervious area within the limits of the plan * =	1.97	acres
Total post-development impervious area within the limits of the plan* =	3.73	acres
Total post-development impervious cover fraction * =	0.59	
P =	32	inches

LM TOTAL PROJECT = **1538** 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 =	6.36	acres
Predevelopment impervious area within drainage basin/outfall area =	1.97	acres
Post-development impervious area within drainage basin/outfall area =	4.92	acres
Post-development impervious fraction within drainage basin/outfall area =	0.77	
LM THIS BASIN =	2572	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	Sand Filter	
Removal efficiency =	89	percent

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

Ac =	6.36	acres
AI =	1.97	acres
AP =	4.40	acres
LR =	2004	lbs

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

Desired LM THIS BASIN =	1800	lbs.
F =	0.90	

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

Rainfall Depth =	1.70	inches
Post Development Runoff Coefficient =	0.26	

On-site Water Quality Volume = **10311** cubic feet

Off-site area draining to BMP = **0.92** 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 = **113** cubic feet

Storage for Sediment = **2085**

Total Capture Volume (required water quality volume(s) x 1.20) = 12509 cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.

9. Filter area for Sand Filters

Designed as Required in RG-348

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = **12509** cubic feet

Minimum filter basin area = **573** square feet

Maximum sedimentation basin area = **5155** square feet

Minimum sedimentation basin area = **1289** square feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = **12509** cubic feet

Minimum filter basin area = **1031** square feet

Maximum sedimentation basin area = **4124** square feet

Minimum sedimentation basin area = **258** square feet

CONSTRUCTION NOTES FOR SUBDIVISIONS AND SITE PLANS CONSTRUCTION NOTES FOR SUBDIVISIONS & SITE PLANS CITY OF CEDAR PARK REVISED MARCH 23, 2023 GENERAL NOTES:

- 1.GENERAL CONTRACTOR SHALL CALL FOR ALL UTILITY LOCATES PRIOR TO ANY CONSTRUCTION. CONTRACTOR SHALL DELINEATE AREAS OF EXCAVATION USING WHITE PAINT (WHITE LINING) IN ACCORDANCE WITH 16 TAC 18.3 WATER & WASTEWATER OWNED BY THE CITY OF CEDAR PARK. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING LOCATES AT 1-800-344-8377, ALLOW THREE BUSINESS DAYS FOR UTILITY LOCATES BY THE CITY OF CEDAR PARK.
- 2.ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF AUSTIN STANDARD SPECIFICATIONS. CITY OF AUSTIN STANDARDS SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- 3.DESIGN PROCEDURES SHALL BE IN GENERAL COMPLIANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL. ALL VARIANCES TO THE MANUAL ARE LISTED BELOW: <ENTER HERE>
- 4.BENCHMARKS SHOULD BE TIED TO THE CITY OF CEDAR PARK BENCHMARKS AND BE CORRECTLY "GEO- REFERENCED" TO STATE PLANE COORDINATES. A LIST OF THE CITY'S BENCHMARKS CAN BE FOUND AT: WWW.TXAS.GOV/INDEX.aspx?PAGE=93.
- 5.PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT, THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED ACCORDING TO COA SPECIFICATION 602S AND 606S. PRIOR TO CITY ACCEPTANCE OF SUBDIVISION IMPROVEMENTS ALL GRADED AND DISTURBED AREAS SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE CITY OF AUSTIN SPECIFICATION ITEM #804 NATIVE SEEDING UNLESS NATIVE IS SPECIALLY APPROVED.
- 6.THE CONTRACTOR SHALL PROVIDE THE CITY OF CEDAR PARK COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF SUBDIVISION IMPROVEMENTS.
- 7.CITY, ENGINEER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, AND A REPRESENTATIVE FROM THE TESTING LAB SHALL ATTEND PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE THE MEETING WITH THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THIS PRE-CONSTRUCTION MEETING (512-401-5000). FINAL CONSTRUCTION PLANS SHALL BE DELIVERED TO ENGINEERING A MINIMUM OF SEVEN BUSINESS DAYS PRIOR TO REQUESTING A PRE-CONSTRUCTION MEETING.
- 8.EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF CEDAR PARK IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES.
- 9.BURNING IS PROHIBITED.
- 10.ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. ALL CHANGES AND REVISIONS MADE TO THE DESIGN OF UTILITIES OR IMPACTS UTILITIES SHALL USE REVISION CLOUDS TO HIGH LIGHT ALL REVISIONS OR CHANGES WITH EACH SUBMITTAL. REVISION TRIANGLES SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MAY BE REMOVED. REVISION INFORMATION SHALL BE UPDATED IN THE APPROPRIATE AREAS OF THE TITLE BLOCK.
- 11.MINIMUM SETBACK REQUIREMENTS FOR EXISTING AND NEWLY PLANTED TREES FROM THE EDGE OF PAVEMENT TO CONFORM TO THE REQUIREMENTS AS SHOWN IN TABLE C-1 OF THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
- 12.THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL COSTS INCURRED AS A RESULT OF ANY DAMAGE TO ANY CITY UTILITY OR ANY INFRASTRUCTURE WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR, REGARDLESS OF THESE PLANS.
13. AN ENGINEER'S CONCURRENCE LETTER AND ELECTRONIC 22'X34" RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY OR SUBDIVISION ACCEPTANCE. THE ENGINEER AND CONTRACTOR SHALL VERIFY THAT ALL FINAL REVISIONS AND CHANGES HAVE BEEN MADE TO RECORD DRAWINGS PRIOR TO CITY SUBMITTAL. RECORD CONSTRUCTION DRAWINGS, INCLUDING ROADWAY AND ALL UTILITIES, SHALL BE PROVIDED TO THE CITY IN AUTOCAD *.DWG FILES AND "PDF" FORMAT ON A CD OR DVD. LINE WEIGHTS, LINE TYPES AND TEXT SIZE SHALL BE SUCH THAT IF HALF-SIZE PRINTS (11X 17") WERE PRODUCED, THE PLANS WOULD STILL BE LEGIBLE. ALL REQUIRED DIGITAL FILES SHALL CONTAIN A MINIMUM OF TWO (2) CONTROL POINTS REFERENCED TO THE STATE PLANS GRID COORDINATE SYSTEM - TEXAS CENTRAL ZONE (4203) IN US FEET AND SHALL INCLUDE ROTATION INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO GRID COORDINATES IN US FEET.
14. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE COMPLIANCE WITH ALL LEGISLATION RELATED TO ACCESSIBILITY WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS.
15. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
16. NO BLASTING IS ALLOWED ON THIS PROJECT.
17. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS SHALL BE SITE SPECIFIC AND SETBACK REVERSED.
18. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND MAINTAINED AT ALL TIMES. TO THE SATISFACTION OF THE CITY, THE SUBDIVISION WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY.
19. SIGNS ARE NOT PERMITTED IN PUBLIC UTILITY EASEMENTS, SET BACKS OR DRAINAGE EASEMENTS.
20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN EROSION CONTROLS ON A DAILY BASIS. ADJUST THE CONTROLS AND/OR REMOVE ANY SEDIMENT BUILDUP AS NECESSARY. A STOP WORK ORDER AND/OR FINE MAY BE IMPOSED IF THE EROSION CONTROLS ARE NOT MAINTAINED.
21. A FINAL CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED ON COMMERCIAL SITES UNTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED. SUBSTANTIAL GRASS COVER, AS DETERMINED BY ENGINEERING DEPARTMENT, MUST BE ACHIEVED PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY. ALL EROSION CONTROLS MUST REMAIN IN PLACE AND MAINTAINED UNTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED TO THE ACCEPTANCE OF THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT, THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED ACCORDING TO COA SPECIFICATION 602S AND 606S.
22. CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL, SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL, SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER, ONLY SHOVELING AND SWEEEPING. CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN A STOP WORK ORDER OR A FINE.
23. ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTION(S) PRIOR TO THE INSTALLATION OF DRY UTILITIES.
24. A MINIMUM OF SEVEN DAYS OF CURE TIME IS REQUIRED FOR HMAc PRIOR TO THE INTRODUCTION OF VEHICULAR TRAFFIC TO ANY STREETS.
25. PRIOR TO PLAN APPROVAL, THE ENGINEER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION OF SUBDIVISION/SITE REGISTRATION WITH THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR) AND PROVIDE DOCUMENTATION OF REVIEW AND COMPLIANCE OF THE SUBDIVISION/SITE WITH TEXAS ARCHITECTURE BARRIERS ACT (TABA).
26. PRIOR TO SUBDIVISION/SITE ACCEPTANCE, THE ENGINEER/DEVELOPER-OWNER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION THAT THE SUBDIVISION/SITE WAS INSPECTED BY TDLR OR A REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND THE SUBDIVISION/SITE IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE TABA.
27. ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL BE PERFORMED MONDAY THRU FRIDAY FROM 7:00 A.M. TO 6:00 P.M. HOWEVER, CONSTRUCTION ACTIVITIES WITHIN ONE HUNDRED FEET (100') OF A DWELLING OR DWELLING UNIT SHALL BE PERFORMED BETWEEN THE HOURS OF 8:00 A.M. AND 6:00 P.M. OTHERWISE ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL CONFORM TO CITY OF CEDAR PARK CODE ORDINANCES, SPECIFICALLY ARTICLE 8.06.
28. APPROVAL FOR CONSTRUCTION ACTIVITIES PERFORMED ON OWNER'S HOLIDAYS, AND/OR SATURDAYS, OUTSIDE OF MONDAY THROUGH FRIDAY 8 AM TO 5 PM, OR IN EXCESS OF 8 HOURS PER DAY SHALL BE OBTAINED IN WRITING 48 HOURS IN ADVANCE, AND INSPECTION FEES AT 1.5 TIMES THE HOURLY INSPECTION RATE SHALL BE BILLED DIRECTLY TO THE CONTRACTOR. THERE SHALL BE NO CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES PERFORMED ON SUNDAY. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT CITY INSPECTION.
29. ALL POLES TO BE APPROVED BY CITY AND PEC, NO CONDUIT SHALL BE INSTALLED DOWN LOT LINES / BETWEEN HOMES. ALL CONDUIT SHALL BE LOCATED IN THE PUBLIC ROW OR IN AN EASEMENT ADJACENT TO AND PARALLEL TO THE PUBLIC ROW.
30. DRY UTILITIES SHALL BE INSTALLED AFTER CURB CUTS AND BEFORE FIRST COURSE BARS. TRENCHING OF COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE SHALL BE BORED ACROSS THE FULL WIDTH OF THE ROW.
31. NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAY(S) AND A PUBLIC STREET. RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE.
32. ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM TWO PERCENT SLOPE WITHIN THE ROW UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
33. CONTRACTORS ON SITE SHALL HAVE AN APPROVED SET OF PLANS AT ALL TIMES. FAILURE TO HAVE AN APPROVED SET MAY RESULT IN A STOP WORK ORDER.
34. CONTRACTOR TO CLEAR FIVE FEET BEYOND ALL RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH INTO THE SIDEWALK AREAS.
35. THERE SHALL BE NO WATER OR WASTEWATER APPURTENANCES, INCLUDING BUT NOT LIMITED TO, VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC OR PEDESTRIAN AREA.
36. SIDEWALKS SHALL NOT USE CURB INLETS AS A PARTIAL WALKING SURFACE. SIDEWALKS SHALL NOT USE TRAFFIC CONTROL BOXES, METER OR CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.

STREET NOTES:

1. NO TRENCHING OF COMPACTED BASE WILL BE ALLOWED. A PENALTY AND/OR FINE MAY BE IMPOSED TO THE GENERAL CONTRACTOR IF TRENCHING OF COMPACTED BASE OCCURS WITHOUT CITY APPROVAL, REGARDLESS OF WHO PERFORMED THE TRENCHING.
2. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANT OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS.
3. STREET BARRICADES SHALL BE INSTALLED ON ALL DEAD END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.
4. ADEQUATE CAUSED TO EXISTING PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC. SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE SUBDIVISION. 5. AT INTERSECTIONS, WHICH HAVE VALLEY DRAINAGE, THE CROWN TO THE INTERSECTING STREET WILL BE CULMINATED AT A DISTANCE OF 40 FT. FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
6. THE SUBGRADE MATERIAL WAS TESTED BEHIND ARIAS, 13581 POND SPRING RD STE 210, AUSTIN TX, 737-220-0114 , ON JUNE 12, 2023 THE PAVEMENT SECTIONS WERE DESIGNED ACCORDINGLY. THE PAVEMENT SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:
LIGHT DUTY, CLBM THICKNESS 11.0 INCH, HMAc THICKNESS 2.0 INCH
HEAVY DUTY, CLBM THICKNESS 12 INCH, HMAc THICKNESS 2.5 INCH
7. DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL, FIRST COURSE AND SECOND COURSE COMPACTED BASE, SHALL BE MADE AT 500 FOOT INTERVALS.
8. ALL DENSITY TESTING IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR AND SHALL BE WITNESSED BY THE CITY OF CEDAR PARKS PROJECT REPRESENTATIVE. THE CONTRACTOR IS TO NOTIFY THE CITY 48 HOURS PRIOR TO SCHEDULED DENSITY TESTING.
9. TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND INSTALLED AS DIRECTED BY THE CITY OF CEDAR PARK PRIOR TO CITY ACCEPTANCE OF THE SUBDIVISION.
10. SLOPE OF NATURAL GROUND ADJACENT TO THE RIGHT-OF-WAY SHALL NOT EXCEED 3:1. A 3:1 SLOPE IS ACCEPTABLE IF POSSIBLE, A RETAINING WALL OR SOME OTHER FORM OF SLOPE PROTECTION APPROVED BY THE CITY SHALL BE PLACED IN LOCATION ACCEPTABLE TO THE CITY.
11. THE CITY, ENGINEER, CONTRACTOR, AND A REPRESENTATIVE FROM THE ASPHALT TESTING LAB SHALL ATTEND A PRE-PAVING CONFERENCE PRIOR TO THE START OF HMAc PAVING. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE PRIOR TO THIS MEETING (512-401-5000).
12. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR CONDUCTING TESTS ON ASPHALT PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CITY OF AUSTIN STANDARD SPECIFICATION NO. 340. ANY RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE ENGINEER AND THE CITY OF CEDAR PARK. RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE LIMITED TO ONE RE-TEST PER PROJECT.
13. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS. STREET NAME LETTER SIZING SHALL BE IN ACCORDANCE WITH MUTCD TABLE 2Z-2 PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
14. ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY RETRO GRADE.
15. NO FENCING OR WALL IS ALLOWED TO BE CONSTRUCTED SO THAT IT OBSTRUCTS THE SIGHT LINES OF DRIVERS FROM AN INTERSECTING PUBLIC ROADWAY OR FROM AN INTERSECTING PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED AS DESCRIBED IN CITY CODE SECTION 14.05.007. INSTALLING A FENCE OR WALL WHICH DOES NOT COMPLY WITH THE CITY'S SIGHT DISTANCE REQUIREMENTS OR FENCING REGULATIONS IS A VIOLATION OF THE CITY ORDINANCE AND MAY BE PUNISHABLE PURSUANT TO SECTION 1.01.009 OF CITY CODE.
16. TEMPORARY ROCK CRUSHING OPERATIONS ARE NOT ALLOWED. ALL SOURCES FOR FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY. PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR THE PROPOSED STOCKPILES ARE TO BE SUBMITTED TO THE CITY PROJECT REPRESENTATIVE FOR REVIEW AND APPROVAL.
17. UTILITY SERVICE BOXES OR OTHER UTILITY FACILITIES SHALL NOT BE INSTALLED WITHIN AREAS DETERMINED TO BE REQUIRED SIGHT LINES OF TWO INTERSECTING PUBLIC STREETS OR WITHIN SIGHT LINES OF A PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED COMPLIANT WITH TABLE 1-1 OF THE AUSTIN TRANSPORTATION CRITERIA MANUAL. UTILITIES DETERMINED BY THE DIRECTOR OF ENGINEERING TO BE PLACED WITHIN REQUIRED SIGHT LINES MAY BE REQUIRED TO BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR PRIOR TO THE CITY ISSUING A CERTIFICATE OF OCCUPANCY OR PRIOR TO THE CITY'S ACCEPTANCE OF IMPROVEMENTS.
18. ALL LANE CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL BY THE DIRECTOR OF ENGINEERING AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY CITY DURING THE PEAK HOURS OF 6 AM TO 9 AM, OR 4 PM TO 8 PM WILL BE SUBJECT TO FINE PER CHAPTER 11.05 OF THE CITY ORDINANCE.
19. BEGUN SITE CLEANING/CONSTRUCTION OR DEMOLITION ACTIVITIES.
20. UNDERGROUND UTILITIES WILL BE INSTALLED, INCLUDING FIRE HYDRANTS.
8. BFI DEPARTMENT ACCESS WILL BE INSTALLED WHERE REQUIRED BY APPROVED SITE PLAN.
9. VERTICAL CURB AND VERTICAL CURB-TO-VEHICLE INSPECTION HAS BEEN CLEARED BY THE FIRE MARSHAL.
10. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.

WASTEWATER NOTES:

1. REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL.
 2. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE. IN PUBLIC STREETS, AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
 3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BIDDING THE PROJECT.
 4. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL POLYETHYLENE WRAP.
 5. ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN MINIMUM COVER SPECIFICATIONS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAINS OR CUTS WILL BE ISSUED BY THE ENGINEER.
 6. 48-INCH DEPTH OF WASTEWATER SERVICE LINES ALTERNATE MATERIALS MAY BE USED. A MINIMUM OF 36-INCHES OF COVER BELOW SUBGRADE SHALL BE ACHIEVED. ANY WASTEWATER SERVICE LINE WITH COVER BETWEEN 36-INCH AND 48- INCHES SHALL BE SDR-26 PVC PRESSURE PIPE.
 7. GASKETED PVC SEWER MAIN FITTINGS SHALL BE USED TO CONNECT SDR-35 PVC TO SDR-26 PVC PRESSURE PIPE OR C-900.
 8. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES. WASTEWATER-PVC SDR-26 FORCE MAIN (PVC IS TO BE EPOXY LINED DUCTILE IRON) (NOTE: IF USING PVC, SDR-26 IS REQUIRED, SDR-35 WW IS NOT ALLOWED. FORCEMAINS SHALL BE EPOXY LINED DUCTILE IRON)
 9. ALL SANITARY SEWERS, EXCLUDING SERVICE LINES, SHALL BE MANDREL TESTED PER TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) CRITERIA. A MANDREL TEST WILL NOT BE PERFORMED UNTIL BACKFILL HAS BEEN IN PLACE FOR A MINIMUM OF 30 DAYS.
 10. ALL WASTEWATER LINES 18" AND LARGER SHALL BE VIDEO INSPECTED IN ACCORDANCE WITH CITY OF CEDAR PARK PUBLIC WORKS DEPARTMENT UTILITY POLICY AND STANDARD SPECIFICATIONS MANUAL APPENDIX E. REQUIREMENTS FOR VIDEO INSPECTION OF WASTEWATER LINES AT THE CONTRACTOR'S EXPENSE. NO SEPARATE PAY UNLESS NOTED ON THE BID FORM.
 11. ALL SANITARY SEWERS, INCLUDING SERVICE LINES, SHALL BE AIR TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS.
 12. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS 600 FEET OF INSTALLED PIPE.
 13. CITY SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINES. CITY INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES.
 14. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE, THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR- 18) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1.
 15. THE ALLOWABLE (MAXIMUM) ADJUSTMENT FOR A MANHOLE SHALL BE 12"(INCHES) OR LESS.
 16. WHERE A SEWER LINE CROSSES A WATER LINE, THE SEWER LINE SHALL BE ONE 20 FT. JOINT OF 150 PSIRATED PVC CENTERED ON CROSSING.
 17. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK"
 18. CONTRACTOR TO NOTIFY AND OBTAIN APPROVAL FROM THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING CITY UTILITIES.
 19. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
 20. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
 21. ALL WASTEWATER MANHOLES TO BE COATED WITH ORGANIC MATERIALS AND PROCEDURES LISTED IN CITY OF AUSTIN QUALIFIED PRODUCTS LIST NO. WW-511 (WW-511A AND WW-511B ARE NOT ALLOWED UNLESS MANHOLE IS BEING STRUCTURALLY REHABILITATED WITH APPROVAL BY PUBLIC WORKS). ALL MANHOLES WILL BE PRE-COATED OR COATED AFTER TESTING.
 22. POLYBID COATINGS ON WASTEWATER MANHOLES WILL NOT BE ALLOWED. ANY OTHER PRODUCT APPEARING ON THE COA SPL WW-511 IS ACCEPTABLE.
 23. ALL PENETRATIONS OF EXISTING WASTEWATER MANHOLES ARE REQUIRED TO BE RE-COATED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED IN NOTE 20.
 24. ALL MANHOLES WILL BE VACUUM TESTED ONLY.
 25. TRACER TAPE AND MARKING TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS.
 26. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS.
- WATER NOTES:**
1. REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL.
 2. THE TOP OF VALVE STEMS SHALL BE AT LEAST 18", AND NO MORE THAN 36", BELOW FINISHED GRADE. VALVE STEM RISERS SHALL BE WELDED ON EACH END REGARDLESS OF THE TYPE OF PIPE.
 3. FIRE HYDRANT LEADS TO BE DUCTILE IRON, CLASS 350, AND INSTALLED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND DETAIL.
 4. PRIOR TO INSTALLATION OF FIRE HYDRANTS, THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) CUT FROM A HUB PIN, ESTABLISHING THE ELEVATION OF THE BURN LINE.
 5. THE ENGINEER SHALL PROVIDE CUTS FOR ALL WATER LINES AT ALL STORM SEWER CROSSINGS TO THE CITY OF CEDAR PARK.
 6. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES:
-WATER C900 DRI 4
-WATER 18" AND LARGER SHALL BE EPOXY LINED DUCTILE IRON.
-WATER PIPE AND FITTINGS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY.
-MINIMUM DR-14"12" DIA. AND SMALLER. MINIMUM CLASS 250 DI LARGER THAN 12" DIA.
7. APPROVED 5/8" FIRE HYDRANTS: AMERICAN FLOW CONTROL, B848 MUELLER COMPANY, SUPER CENTURION 250 CLOW MEDALLION HYDRANT- REQUIREMENTS FOR PRIVATE FIRE HYDRANTS (BEHIND DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY): MUST BE IN ACCORDANCE WITH CITY OF AUSTIN SPECIFICATIONS.
8. ALL FIRE HYDRANTS INSTALLED IN PUBLIC STREETS (NATIONAL THREAD) SHALL BE REFLECTOR MARKERS SHALL BE LOCATED ON THE CENTERLINE OF THE PAVEMENT ABOVE FROM ALL FIRE HYDRANTS. PAVEMENT MARKERS AT INTERSECTIONS SHALL BE FOUR-SIDED.
 8. SHOULD A TAPPING SADDLE BE APPROVED BY PUBLIC WORKS, THE SADDLE SHALL BE SMITH-BLAIR 662STAINLESS STEEL TAPPING SLEEVES WITH ALL STAINLESS HARDWARE, OR APPROVED EQUAL. REQUESTS FOR ALTERNATE PROVIDERS SHALL BE MADE TO THE CITY OF CEDAR PARK PUBLIC WORKS. NO TAP EXCEEDING 2 IN DIAMETER WILL BE APPROVED.
 9. ALL WATER LINES, INCLUDING SERVICE LINES, SHALL BE PRESSURE AND LEAK TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND WITNESSED BY THE CITY OF CEDAR PARK REPRESENTATIVE. ALL TESTING IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR MAY BE REQUIRED TO RE-TEST LINES IF THE TEST IS WITNESSED BY THE CITY. THE CITY OF CEDAR PARK 48 HOURS PRIOR TO ANY TESTING.
 10. ALL WATER LINES SHALL BE STERILIZED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR STERILIZATION AND THE CITY OF CEDAR PARK IS RESPONSIBLE FOR SUBMITTING BACTERIOLOGICAL SAMPLES TO THE STATE. PUBLIC WORKS WILL REQUIRE A CONTRACTOR SPECIALIZED IN DISINFECTION FOR LARGE DIAMETER LINES OR CRITICAL INFRASTRUCTURE. SUBSIDIARY TO PIPES INSTALLATION.
 11. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
 12. CONTRACTOR TO OBTAIN A WATER METER FROM THE CITY OF CEDAR PARK FOR ANY WATER THAT MAY BE REQUIRED DURING CONSTRUCTION. (512-401-5000)
 13. ALL WATER METER BOXES SHALL BE FORD GULF METER BOX WITH LOCKING LID.
 14. QUAL DG-148-243
-QUAL DG-148-243
-1" METER YL11 ~ 444
-1 1/2" -2" METER 1730-R (LID) & 1730-12 (BOX)/ACCEPTABLE BOXES FOR THIS SIZE OF METER
 15. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE, WHEN IN PUBLIC STREETS, AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION.
 16. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 17. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL POLYETHYLENE WRAP.
 17. ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN SPECIFICATIONS FOR MINIMUM COVER REQUIREMENTS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAINS OR CUTS WILL BE ISSUED BY THE ENGINEER.
 18. 48-INCH DEPTH OF WASTEWATER SERVICE LINES ALTERNATE MATERIALS MAY BE USED. A MINIMUM OF 36-INCHES OF COVER BELOW SUBGRADE SHALL BE ACHIEVED. ANY WASTEWATER SERVICE LINE WITH COVER BETWEEN 36-INCH AND 48- INCHES SHALL BE SDR-26 PVC PRESSURE PIPE.
 19. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE, THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR- 18)150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1.
 20. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES.
 21. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
 22. TRACER TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS REGARDLESS OF THE TYPE OF PIPE OR DEPTH OF PIPE INSTALLED.
 23. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
 24. THE CITY CONSIDERS PROTECTION OF ITS WATER SYSTEM PARAMOUNT TO CONSTRUCTION ACTIVITIES. CITY PERSONNEL WILL OPERATE, OR AUTHORIZE THE CONTRACTOR TO OPERATE, ALL WATER VALVES THAT WILL PASS THROUGH THE CITY'S POTABLE WATER. THE CONTRACTOR MAY NOT OPERATE ANY WATER VALVE, EXISTING OR PROPOSED, THAT WILL ALLOW WATER FROM THE CITY'S WATER SYSTEM TO FLOW TO A PROPOSED OR EXISTING WATER SYSTEM WITHOUT THE EXPRESS CONSENT OF THE CITY, NOTIFY THE CITY TWO BUSINESS DAYS IN ADVANCE OF ANY REQUEST TO OPERATE A WATER VALVE. THE GENERAL CONTRACTOR MAY BE FINED \$500 OR MORE, INCLUDING ADDITIONAL THEFT OF WATER FINES, IF A WATER VALVE IS OPERATED IN AN UNAUTHORIZED MANNER, REGARDLESS OF WHO OPERATED THE VALVE.
 25. ALL WATER VALVES OVER 24" IN SIZE SHALL HAVE A BY-PASS LINE AND VALVE INSTALLED. BY-PASS VALVES AND LINES ARE SUBSIDIARY TO THE COST OF THE VALVE UNLESS SPECIFICALLY IDENTIFIED ON THE BID FORM.
 26. ALL WATER VALVES, INCLUDING THOSE OVER 12" IN SIZE, SHALL BE GATE VALVES.
 27. A DOUBLE CHECK BACKFLOW DEVICE IN A VAULT SHALL BE INSTALLED AT THE PROPERTY LINE ON ALL PRIVATE FIRE LINES. A DETECTOR WATER METER WILL BE INSTALLED ON THIS BACKFLOW DEVICE, AND IT MUST BE A SENSUS SRI 3/4" METER WITH AMI RADIO READ CAPABILITY. THE CITY WILL PROVIDE THIS METER. PLEASE REFERENCE THE CITY OF CEDAR PARK DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY DETAIL.
 28. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE LEAD FREE" ACCORDING TO THE UNITED STATES SAFE DRINKING WATER ACT. THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT ARE FIRE HYDRANTS. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT BY MARKING, OR ON THE PRODUCT PACKAGING, OR BY PRE-APPROVED SUBMITTAL, WILL BE REJECTED FOR USE. A LEAD CERTIFICATION WILL BE ADEQUATE IF THE CERTIFICATION HAS NOT EXPIRED AS OF JANUARY 4, 2014 AND REMAINS UNEXPIRED AT THE TIME OF CONSTRUCTION.
 29. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS.
- STORM SEWER NOTES:**
1. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. CONTRACTOR SHALL BACKFILL AROUND MANHOLES AND JUNCTION BOXES WITH CLASS A CONCRETE.
 2. ALL MANHOLE LIDS SHALL BE 32" OR LARGER, UNLESS EXPRESSLY APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
 3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 4. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL STORM SEWER RCP SHALL BE CLASS III, CORRUGATED METAL PIPE IS NOT PERMITTED.
 5. ALL CURB INLETS SHALL READ "CITY OF CEDAR PARK"
 6. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING UTILITIES. 7. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS.
 8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
 9. CONTRACTOR TO INSTALL AND MAINTAIN GEO-TEXTILE FABRIC BARRIER (INLET PROTECTION) AROUND STORM SEWER LEADS AND INLETS TO PREVENT SILT AND OTHER MATERIAL FROM ENTERING THE STORM SEWER COLLECTION SYSTEM.
 10. INSTALL CONCRETE SAFETY END TREATMENTS TO ALL CULVERTS AND ENDS OF DRAINAGE PIPE.
 11. ALL CURB INLETS SHALL HAVE AN ALMETER *DISC. NO DUMPING MARKER.
- SEQUENCE OF CONSTRUCTION NOTES:
THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED FOR ALL DEVELOPMENT. THE APPLICANT IS ENCOURAGED TO PROVIDE ANY ADDITIONAL DETAILS APPROPRIATE FOR DEVELOPMENT.
1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESCP) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MEASURES.
 2. THE GENERAL CONTRACTOR MUST CONTACT THE CITY INSPECTOR AT 512-401-5000, 72 HOURS PRIOR TO THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING.
 3. THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESCP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
 4. ROUGH GRADE OF THE POND(S) AT 100% PROPOSED CAPACITY, EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT WATER QUALITY POND(S).
 5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESCP) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
 6. BEGUN SITE CLEANING/CONSTRUCTION OR DEMOLITION ACTIVITIES.
 7. UNDERGROUND UTILITIES WILL BE INSTALLED, INCLUDING FIRE HYDRANTS.
 8. BFI DEPARTMENT ACCESS WILL BE INSTALLED WHERE REQUIRED BY APPROVED SITE PLAN.
 9. VERTICAL CURB AND VERTICAL CURB-TO-VEHICLE INSPECTION HAS BEEN CLEARED BY THE FIRE MARSHAL.
 10. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE.

11. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
12. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE, THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL AND SIGNATURE TO THE CITY INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR.
13. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE CITY INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR.
14. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY CONSTRUCTION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

**Texas Commission on Environmental Quality
Contributing Zone Plan
General Construction Notes**

Edwards Aquifer Protection Program Construction Notes – Legal Disclaimer

The following listed "construction notes" are intended to be advisory in nature only and do not constitute an approval or conditional approval by the Executive Director (ED), nor do they constitute a comprehensive listing of rules or conditions to be followed during construction.

Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing the protection of water quality. Additionally, nothing contained in the following listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or curtail activities that result or may result in pollution of the Edwards Aquifer or hydrologically connected surface waters. The holder of any Edwards Aquifer Protection Plan containing "construction notes" is still responsible for compliance with Title 30, TAC, Chapters 213 or any other applicable TCEQ regulation, as well as all conditions of an Edwards Aquifer Protection Plan through all phases of plan implementation. Failure to comply with any condition of the ED's approval, whether or not in construction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to enforcement). Such violations may also be subject to civil penalties and injunction. The following listed "construction notes" in no way represent an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulation

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any ground disturbance or construction activities. This notice must include:
 - the name of the approved project.
 - the activity start date, and
 - the contact information of the prime contractor.
2. All contractors conducting regulated activities associated with this project should be provided with complete copies of the approved Contributing Zone Plan (CZP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractor(s) should keep copies of the approved plan and approval letter on-site.
3. No hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.
4. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for such situations. These controls must remain in place until the disturbed areas have been permanently stabilized.
5. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.
6. Sediment must be removed from the sediment traps or sedimentation basins when it occupies 50% of the basin's design capacity.
7. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged off-site.
8. All excavated material that will be stored on-site must have proper E&S controls.
9. If portions of the site will have a cease in construction activity lasting longer than 14 days, soil TCEQ-0992a (Rev. July 15, 2015) Page 1 of 2

stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent activity by the 14th day, stabilization measures shall be initiated as soon as possible.

10. The following records should be maintained and made available to the TCEQ upon request:
 - the dates when major grading activities occur;
 - the dates when construction activities temporarily or permanently cease on a portion of the site; and
 - the dates when stabilization measures are initiated.
11. The holder of any approved CZP must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:
 - A. any physical or operational modification of any best management practices (BMPs) or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
 - B. any change in the nature or character of the regulated activity from that which was originally approved;
 - C. any change that would significantly impact the ability to prevent pollution of the Edwards Aquifer; or
 - D. any development of land previously identified as undeveloped in the approved contributing zone plan.

Austin Regional Office 12100 Park 35 Circle, Building A Austin, Texas 78753-1808 Phone (512) 339-3295 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3009 Fax (210) 545-4329
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THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

**MINYARD
PLUMBING**

LOCATION:

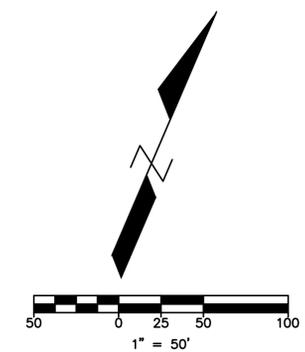
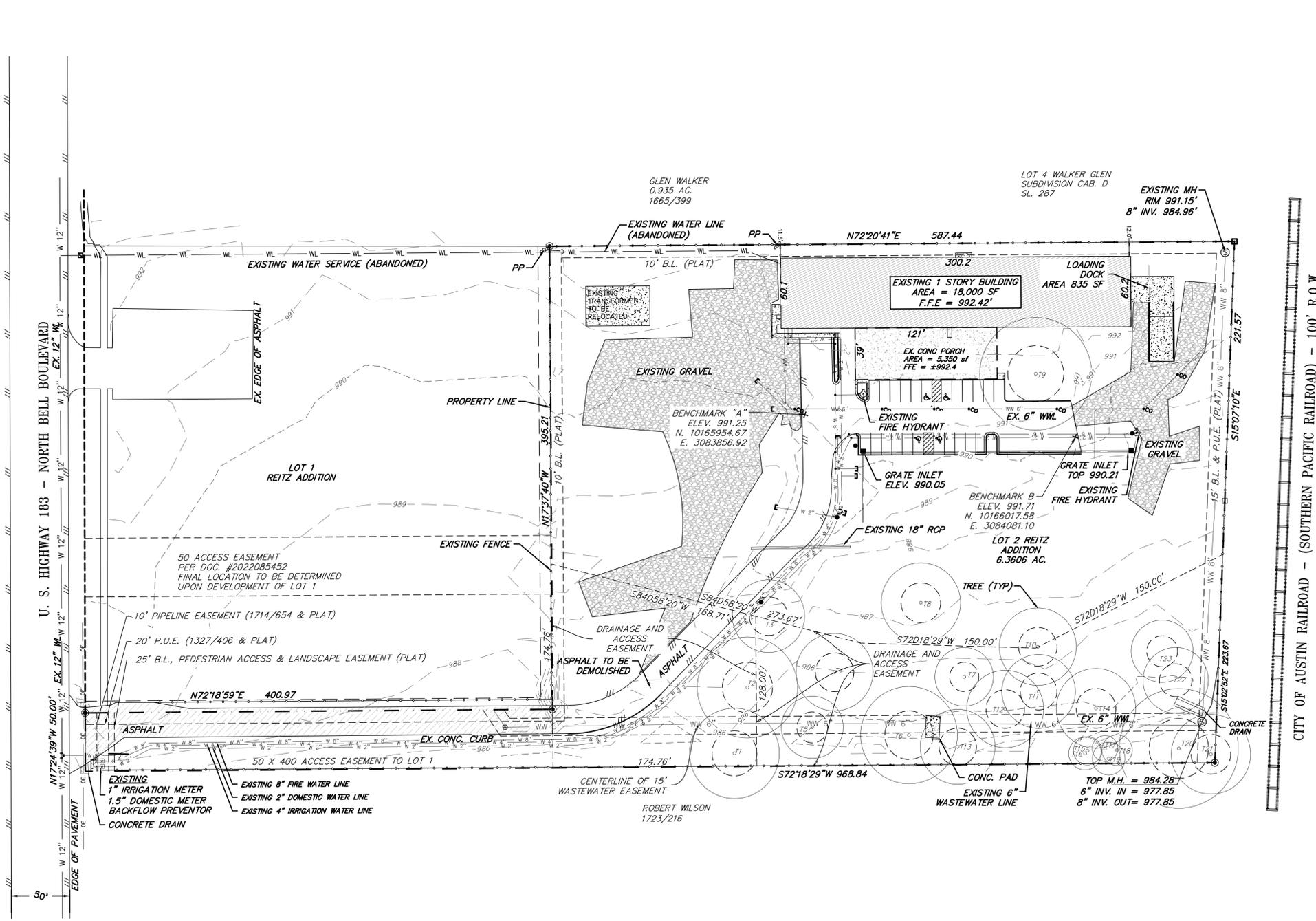
**1800 N. BELL BLVD.
CEDAR PARK, TX 78613**



project team

OWNER:
RICHARD MINYARD
P.O. BOX 1149
CEDAR PARK, TX 78613

CIVIL ENGINEER:



LEGEND

- 1/2" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
- ☆ LIGHT POLE
- ⊕ UTILITY POLE
- ⊖ DOWN GUY
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ ELECTRIC BOX
- ⊕ WATER METER
- ⊕ CATV RISER
- ⊕ AT&T JUNCTION BOX
- ⊕ FIBER OPTIC MARKER
- OVERHEAD ELECTRIC LINE
- WASTE WATER MANHOLE
- STORM SEWER MANHOLE
- LIMITS OF CONSTRUCTION
- METAL FENCE
- TREE DETAIL
- CRITICAL ZONE
- ⊓ CRITICAL ZONE

TREE LIST

TAG	DESCRIPTION
T1	39" OAK
T2	43" OAK
T3	31" OAK
T4	33" OAK
T5	29" OAK
T6	42" OAK
T7	35" OAK
T8	34" OAK
T9	48" OAK
T10	33" OAK
T11	29" OAK
T12	33" OAK
T13	32" OAK
T14	35" OAK
T15	12" OAK
T16	14" OAK
T17	11" OAK
T18	13" HACKBERRY
T19	14" OAK
T20	13" OAK
T21	34" OAK
T22	30" OAK
T23	25" OAK

EXISTING IMPERVIOUS COVER

TYPE	AREA (SF)	AREA (AC)
GRASS	177,972	4.084
BUILDING	18,046	0.414
CONCRETE	9,502	0.218
GRAVEL	37,980	0.872
ASPHALT	33,645	0.772
TOTAL	277,085	6.361
TOTAL IMPERVIOUS COVER		35.8 %

- EXISTING CONDITION NOTES:
- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE INFORMATION, INCLUDING SURVEY DATA, FINAL PLATS AND RECORD DRAWINGS, CONTRACTOR SHALL VERIFY LOCATION OF ALL IMPROVEMENTS AND GRADES IN THE FIELD. NOTIFY ENGINEER IN THE EVENT OF DISCREPANCY BETWEEN THIS PLAN AND ACTUAL CONDITIONS.
 - UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE RECORD DRAWINGS, CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO CONSTRUCTION.
 - UTILITIES HAVE BEEN PREVIOUSLY INSTALLED WITH THE APPROVED PLANS BY THE CITY OF CEDAR PARK DATED APRIL 9, 2008, PERMIT NUMBER SD-07-00044.

- DEMOLITION NOTES:
- ALL EXISTING CONCRETE AND ASPHALT IMPROVEMENTS TO BE REMOVED FROM SITE AS SHOWN. CONTRACTOR SHALL DISPOSE OF CONCRETE, ASPHALT, AND OTHER CONSTRUCTION DEBRIS AT AN APPROVED OFF-SITE FACILITY.
 - A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - ANY HAZARDOUS OR ENVIRONMENTALLY HARMFUL MATERIALS SHALL BE REMOVED AND DISPOSED BY PROPERLY LICENSED CONTRACTORS AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED PERMITS FOR DEMOLITION FROM THE PROPER AUTHORITIES.
 - ALL DEMOLITION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES.
 - A PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.

PROJECT:
MINYARD PLUMBING

LOCATION:
**1800 N. BELL BLVD.
CEDAR PARK, TX 78613**

AES Engineering Consultant

project team

OWNER:
RICHARD MINYARD
P.O. BOX 1149
CEDAR PARK, TX 78613

CIVIL ENGINEER:
AES Engineering Consultant
Ahmed El Sewify P.E.
2514 PRESERVE TRAIL,
CEDAR PARK, TX 78613
Ph. (512) 785-9034
email: contact@aes-engs.com
Texas Firm F-22721

ARCHITECT:
STUDIO RM ARCHITECTURE
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INFO@THESTUDIORM.COM
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ARIAS
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AUSTIN, TEXAS 78729
737-220-0114

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November 23, 2023

Professional Engineer
Ahmed El Sewify
141828
LICENSED PROFESSIONAL ENGINEER

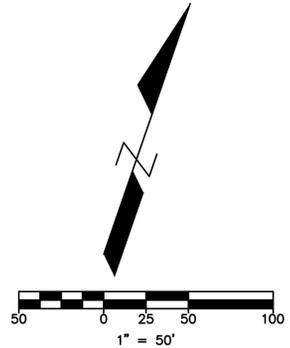
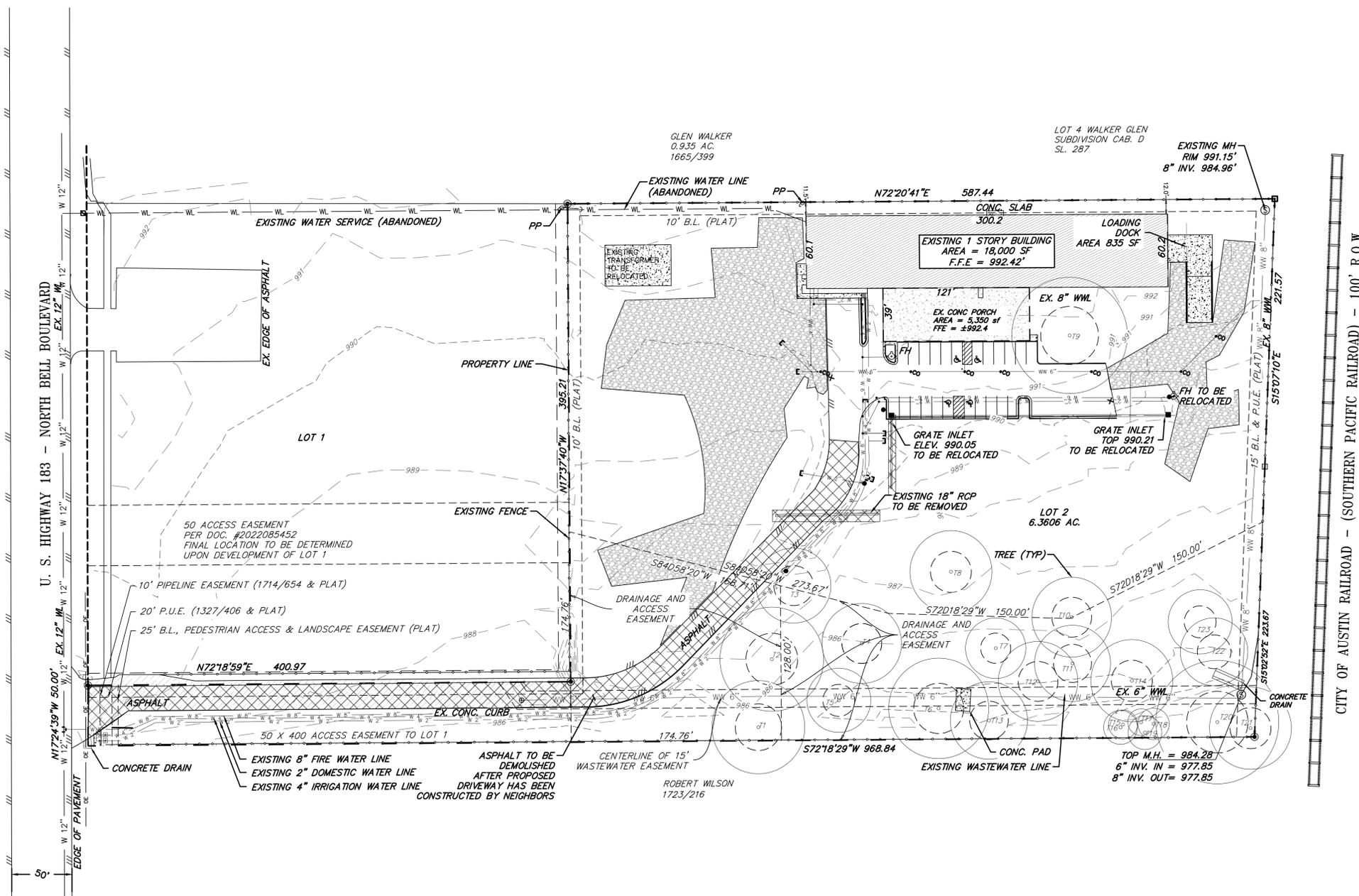
REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
EXISTING CONDITIONS

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:50
SHEET NUMBER: 4 of 27	

PERMIT NO: TBD SAVED ON 11/23/2023 6:31:50 PM

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CA010-1024 EXISTING CONDITIONS.DWG



LEGEND

- 1/2" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
- LIGHT POLE
- UTILITY POLE
- DOWN GUY
- FIRE HYDRANT
- WATER VALVE
- ELECTRIC BOX
- WATER METER
- CATV RISER
- AT&T JUNCTION BOX
- FIBER OPTIC MARKER
- OVERHEAD ELECTRIC LINE
- WWMH WASTEWATER MANHOLE
- SSMH STORM SEWER MANHOLE
- LIMITS OF CONSTRUCTION
- METAL FENCE
- TREE DETAIL
- CRITICAL ZONE
- CRITICAL ZONE
- ▨ AREA TO BE DEMOLISHED

TREE LIST

TAG	DESCRIPTION
T1	39" OAK
T2	43" OAK
T3	31" OAK
T4	33" OAK
T5	29" OAK
T6	42" OAK
T7	35" OAK
T8	34" OAK
T9	48" OAK
T10	33" OAK
T11	29" OAK
T12	33" OAK
T13	32" OAK
T14	35" OAK
T15	12" OAK
T16	14" OAK
T17	11" OAK
T18	13" HACKBERRY
T19	14" OAK
T20	13" OAK
T21	34" OAK
T22	30" OAK
T23	25" OAK

EXISTING IMPERVIOUS COVER

	SF	AC.
GRASS	191228.4	4.39
BUILDING	18046	0.414
CONCRETE	37979.575	0.872
GRAVEL	6186.84	0.142
ASPHALT	23390.216	0.537
TOTAL	277085.16	6.361
TOTAL IMPERVIOUS COVER		30.9 %

EXISTING CONDITION NOTES:

- EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE INFORMATION, INCLUDING SURVEY DATA, FINAL PLATS AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION OF ALL IMPROVEMENTS AND GRADES IN THE FIELD. NOTIFY ENGINEER IN THE EVENT OF DISCREPANCY BETWEEN THIS PLAN AND ACTUAL CONDITIONS.
- UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO CONSTRUCTION.
- UTILITIES HAVE BEEN PREVIOUSLY INSTALLED WITH THE APPROVED PLANS BY THE CITY OF CEDAR PARK DATED APRIL 9, 2008, PERMIT NUMBER SD-07-00044.

DEMOLITION NOTES:

- ALL EXISTING CONCRETE AND ASPHALT IMPROVEMENTS TO BE REMOVED FROM SITE AS SHOWN. CONTRACTOR SHALL DISPOSE OF CONCRETE, ASPHALT, AND OTHER CONSTRUCTION DEBRIS AT AN APPROVED OFF-SITE FACILITY.
- A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
- ANY HAZARDOUS OR ENVIRONMENTALLY HARMFUL MATERIALS SHALL BE REMOVED AND DISPOSED BY PROPERLY LICENSED CONTRACTORS AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED PERMITS FOR DEMOLITION FROM THE PROPER AUTHORITIES.
- ALL DEMOLITION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES.
- A PRECONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.

PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

OWNER:
RICHARD MINYARD
P.O. BOX 1149
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CIVIL ENGINEER:
AES Engineering Consultant
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REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
DEMOLITION PLAN

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:50
SHEET NUMBER: 5 of 27	

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CA010-1024 DEMOLITION.DWG

MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

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AUSTIN, TEXAS 78729
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November 23, 2023

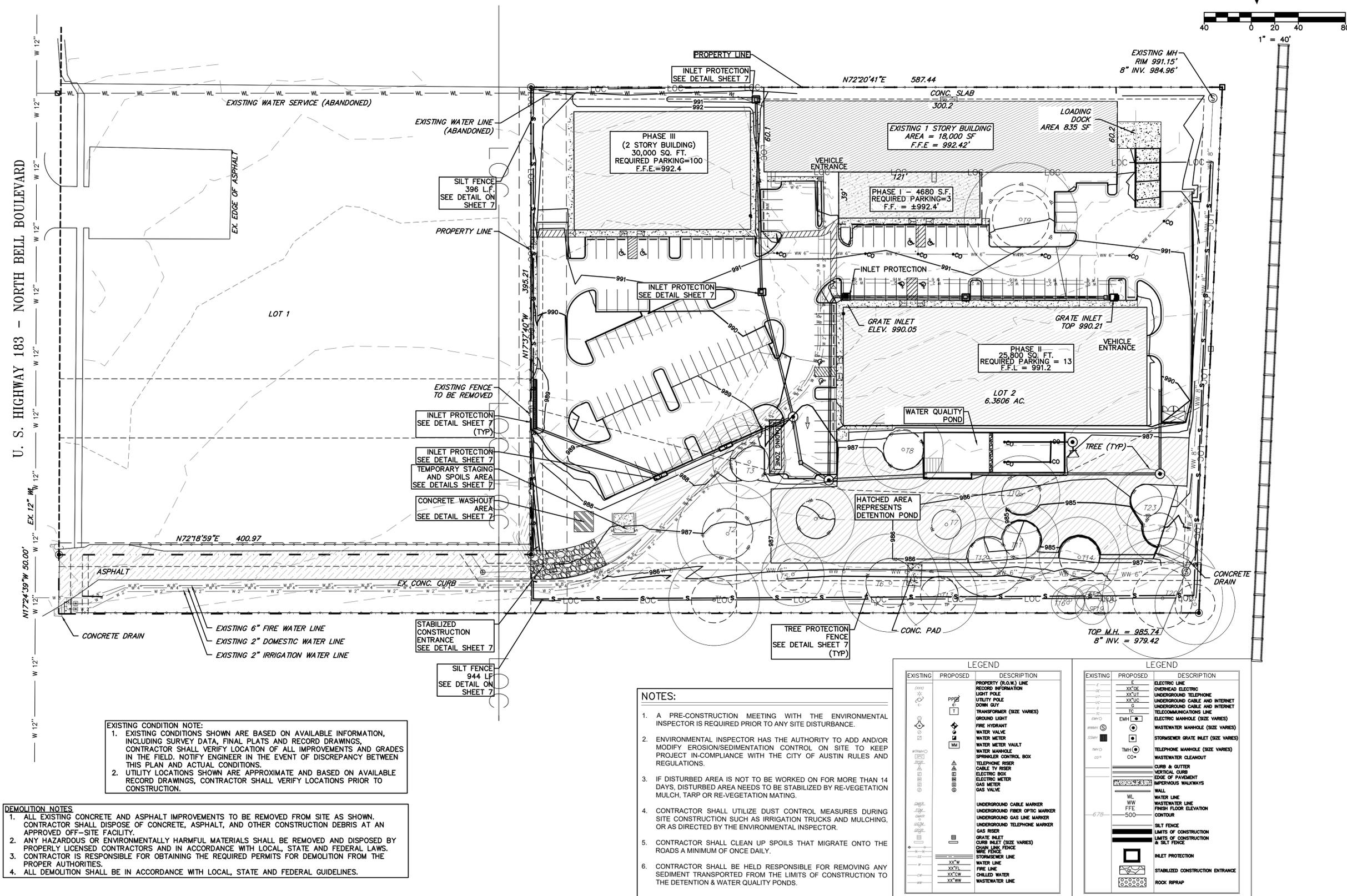


Ahmed El Seweify

REVISION	DATE	ISSUE TITLE

DRAWING TITLE: EROSION & SEDIMENTATION CONTROL PLAN

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:40
SHEET NUMBER: 6 of 27	



EXISTING CONDITION NOTE:
1. EXISTING CONDITIONS SHOWN ARE BASED ON AVAILABLE INFORMATION, INCLUDING SURVEY DATA, FINAL PLATS AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY LOCATION OF ALL IMPROVEMENTS AND GRADES IN THE FIELD. NOTIFY ENGINEER IN THE EVENT OF DISCREPANCY BETWEEN THIS PLAN AND ACTUAL CONDITIONS.
2. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON AVAILABLE RECORD DRAWINGS, CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO CONSTRUCTION.

DEMOLITION NOTES
1. ALL EXISTING CONCRETE AND ASPHALT IMPROVEMENTS TO BE REMOVED FROM SITE AS SHOWN. CONTRACTOR SHALL DISPOSE OF CONCRETE, ASPHALT, AND OTHER CONSTRUCTION DEBRIS AT AN APPROVED OFF-SITE FACILITY.
2. ANY HAZARDOUS OR ENVIRONMENTALLY HARMFUL MATERIALS SHALL BE REMOVED AND DISPOSED BY PROPERLY LICENSED CONTRACTORS AND IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED PERMITS FOR DEMOLITION FROM THE PROPER AUTHORITIES.
3. CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
4. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMOVING ANY SEDIMENT TRANSPORTED FROM THE LIMITS OF CONSTRUCTION TO THE DETENTION & WATER QUALITY PONDS.

- NOTES:**
- A PRE-CONSTRUCTION MEETING WITH THE ENVIRONMENTAL INSPECTOR IS REQUIRED PRIOR TO ANY SITE DISTURBANCE.
 - ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROL ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.
 - IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY RE-VEGETATION MULCH, TARP OR RE-VEGETATION MATING.
 - CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING, OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
 - CONTRACTOR SHALL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.
 - CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMOVING ANY SEDIMENT TRANSPORTED FROM THE LIMITS OF CONSTRUCTION TO THE DETENTION & WATER QUALITY PONDS.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	PROPERTY (B.O.W.) LINE
---	---	RECORD INFORMATION
---	---	UTILITY POLE
---	---	DOWN GUT
---	---	TRANSFORMER (SIZE VARIES)
---	---	GROUND LIGHT
---	---	FIRE HYDRANT
---	---	WATER VALVE
---	---	WATER METER
---	---	WATER METER VAULT
---	---	SPRINKLER CONTROL BOX
---	---	TELEPHONE RISER
---	---	CABLE TV RISER
---	---	ELECTRIC BOX
---	---	ELECTRIC METER
---	---	GAS METER
---	---	GAS VALVE
---	---	UNDERGROUND CABLE MARKER
---	---	UNDERGROUND FIBER OPTIC MARKER
---	---	UNDERGROUND GAS LINE MARKER
---	---	UNDERGROUND TELEPHONE MARKER
---	---	GAS RISER
---	---	GRATE INLET (SIZE VARIES)
---	---	CURB INLET (SIZE VARIES)
---	---	WIRE FENCE
---	---	STORMSEWER LINE
---	---	WATER LINE
---	---	FIRE LINE
---	---	CHILLED WATER
---	---	WASTEWATER LINE

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	ELECTRIC LINE
---	---	OVERHEAD ELECTRIC
---	---	UNDERGROUND TELEPHONE
---	---	UNDERGROUND CABLE AND INTERNET
---	---	UNDERGROUND CABLE AND INTERNET
---	---	TELECOMMUNICATIONS LINE
---	---	ELECTRIC MANHOLE (SIZE VARIES)
---	---	WASTEWATER MANHOLE (SIZE VARIES)
---	---	STORMSEWER MANHOLE (SIZE VARIES)
---	---	TELEPHONE MANHOLE (SIZE VARIES)
---	---	WASTEWATER CLEANOUT
---	---	CURB & GUTTER
---	---	VERTICAL CURB
---	---	EDGE OF PAVEMENT
---	---	WALKWAYS
---	---	WALKWAYS
---	---	WALL
---	---	WATER LINE
---	---	WASTEWATER LINE
---	---	FINISH FLOOR ELEVATION
---	---	CONTOUR
---	---	SILT FENCE
---	---	LIMITS OF CONSTRUCTION
---	---	LIMITS OF CONSTRUCTION
---	---	& SILT FENCE
---	---	INLET PROTECTION
---	---	STABILIZED CONSTRUCTION ENTRANCE
---	---	ROCK RIPRAP



TRENCH CROSS SECTION

SILT FENCE

GENERAL NOTES:

- SILT FENCE LOCATED ADJACENT TO PLAYGROUNDS, PARKS, SIDEWALKS, AND OTHER LOCATIONS AS DETERMINED BY CITY OF CEDAR PARK REPRESENTATIVES SHALL HAVE CITY APPROVED SAFETY CAPS ON ALL STEEL POSTS.
- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
- POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- WHERE FENCE CAN NOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE. 6 INCHES DEEP AND 6 INCHES WIDE TO THE TRENCH MUST BE A MINIMUM OF ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
- INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.
- THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION. STANDARD SYMBOL:

CITY OF CEDAR PARK
ENGINEERING DEPARTMENT

SILT FENCE

APPROVED: 09/13/2001
DATE: 09/13/2001
SCALE: N.T.S.
INITIALS: *[Signature]*

ROCK BERM

CROSS SECTION

STANDARD SYMBOL FOR ROCK BERM (RB)

NOTES:

- USE ONLY OPEN GRADED ROCK 75 TO 125 mm (3 TO 5") DIAMETER FOR ALL CONDITIONS.
- THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 25 mm (1") OPENING AND MINIMUM WIRE DIAMETER OF 12.9 mm (20 GAUGE).
- THE ROCK BERM SHALL BE INSPECTED DAILY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SEDIMENT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- IF SEDIMENT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 150 mm (6"), WHICHEVER IS LESS, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF ON AN APPROVED SITE AND IN A MANNER THAT WILL NOT CREATE A SEDIMENTATION PROBLEM.
- WHEN THE SITE IS COMPLETELY STABILIZED THE BERM AND ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

ROCK BERM

RECORD COPY SIGNED BY: *[Signature]* 08/24/2010 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 639S-1

STORM INLET SEDIMENT TRAP

CROSS SECTION

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

STORM INLET SEDIMENT TRAP

RECORD COPY SIGNED BY: *[Signature]* 5/23/00 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 632S-1

STABILIZED CONSTRUCTION ENTRANCE

PLAN VIEW

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

STABILIZED CONSTRUCTION ENTRANCE

RECORD COPY SIGNED BY: *[Signature]* 5/23/00 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 641S-1

TREE PROTECTION FENCE LOCATIONS

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

TREE PROTECTION FENCE LOCATIONS

RECORD COPY SIGNED BY: *[Signature]* 11/15/99 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 610S-1

DITCH OR DIVERSION TO DIVERT SURFACE FLOW

SLOPE DETAIL (WITH BENCH)

GENERAL NOTES:

- ALL GRADES OR DISTURBED AREAS, INCLUDING SLOPES, SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN, UNTIL THEY ARE PERMANENTLY STABILIZED.
- ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO MINIMUM DEPTH OF 75 mm (3") PRIOR TO PLACEMENT OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC., SHALL BE COMPACTED IN ACCORDANCE WITH ITEM 1325 "EMBANKMENT" OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
- ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 200 mm (8") IN THICKNESS.
- FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCK, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- ALL TRENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARDS FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADES SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

LAND GRADING

RECORD COPY SIGNED BY: *[Signature]* 3-27-00 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 633S-1

MULCHING MATERIAL

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

MULCHING

RECORD COPY SIGNED BY: *[Signature]* 08/24/2010 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 645S-1

TREE PROTECTION FENCE

CITY OF AUSTIN
WATERSHED PROTECTION DEPARTMENT

TREE PROTECTION FENCE TYPE A - CHAIN LINK

RECORD COPY SIGNED BY: *[Signature]* 11/15/99 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 610S-2

SLOPE PROTECTION AND TREE WELLS

CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW

SLOPE PROTECTION AND TREE WELLS

RECORD COPY SIGNED BY: *[Signature]* 7/16/00 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 610S-6
1 OF 2

SLOPE PROTECTION AND TREE WELLS

CITY OF AUSTIN
DEPARTMENT OF WATERSHED PROTECTION AND DEVELOPMENT REVIEW

SLOPE PROTECTION AND TREE WELLS

RECORD COPY SIGNED BY: *[Signature]* 7/16/00 ADOPTED
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 610S-6
2 OF 2

PROJECT: **MINYARD PLUMBING**

LOCATION: **1800 N. BELL BLVD. CEDAR PARK, TX 78613**

AES Engineering Consultant

project team

OWNER: **RICHARD MINYARD**
P.O. BOX 1149
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Texas 811

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Ahmed El Sewify

141828
LICENSED PROFESSIONAL ENGINEER

REVISION: [] DATE: [] ISSUE TITLE: []

DRAWING TITLE: **EROSION & SEDIMENTATION CONTROL DETAILS**

PROJECT NO: 10-1024
DATE: 2023-11-23
SHEET NUMBER: 7 of 27

DRAWN & CHECKED BY: MRL
SCALE: N/A

PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

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737-220-0114



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November 23, 2023



Ahmed El Seweify

REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
EXISTING DRAINAGE AREA MAP

PROJECT NO:
10-1024

DATE:
2023-11-23

DRAWN & CHECKED BY:
MRL AES

SCALE:
1:80

SHEET NUMBER:
8 of 27

CN CALCULATION (DA-1)			
HYDROLOGY GROUP "D"			
DESC.	AREA ACRE	CN	AREA X CN
PERVIOUS	3.860	84	324.22
CONCRETE & ASPHALT	1.165	98	114.20
GRAVEL	0.872	91	79.35
TOTAL AREA	5.897		
AVERAGE CN		87.80	

CN CALCULATION (DA-2)			
HYDROLOGY GROUP "D"			
DESC.	AREA ACRE	CN	AREA X CN
PERVIOUS	0.222	84	18.61
CONCRETE & ASPHALT	0.239738	98	23.49
GRAVEL	0	91	0.00
TOTAL AREA	0.461		
AVERAGE CN		91.28	

LEGEND

- 1/2" IRON ROD FOUND (UNLESS OTHERWISE NOTED)
- ☆ LIGHT POLE
- UTILITY POLE
- DOWN GUY
- ⊕ FIRE HYDRANT
- ⊕ WATER VALVE
- ⊕ ELECTRIC BOX
- ⊕ ELECTRIC METER
- ⊕ GAS METER
- OVERHEAD ELECTRIC LINE
- ⊕ ELECTRIC MANHOLE
- ⊕ WASTEWATER MANHOLE
- ⊕ STORM SEWER MANHOLE
- ⊕ CLEANOUT
- ▬ DRAINAGE AREA BOUNDARY
- ▬ SUB-BASIN AREA BOUNDARY
- DIRECTION OF STORMWATER FLOW
- DA DRAINAGE AREA ABBREVIATION
- DA DRAINAGE AREA NUMBER
- DA-1 DRAINAGE AREA I.D.
- X.XX AC AREA (ACRES)

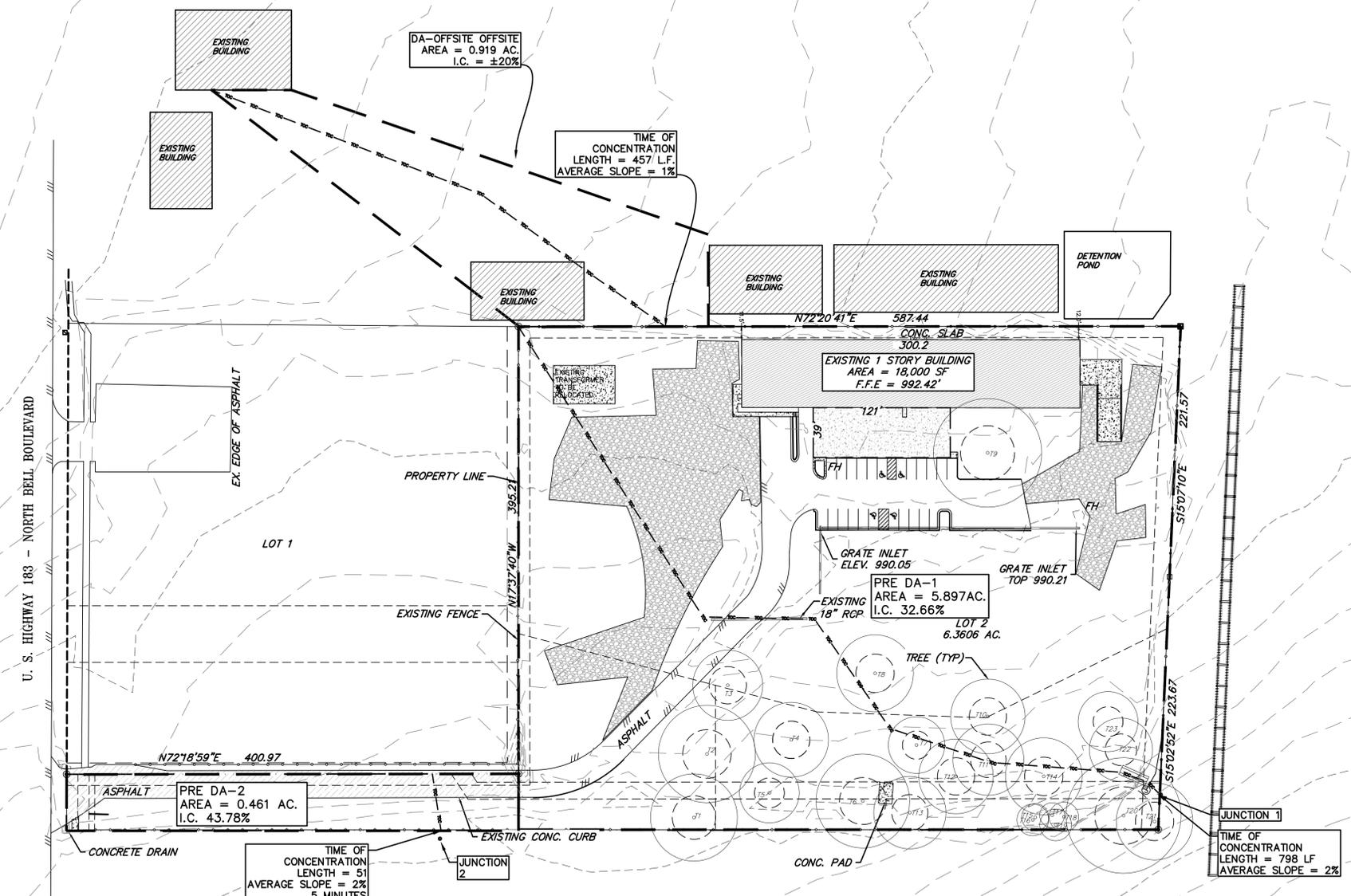
EXISTING IMPERVIOUS COVER

COVER TYPE	AREA (SF)	AREA (AC)
GRASS	177,972	4.084
BUILDING	18,046	0.414
CONCRETE	9,502	0.218
GRAVEL	37,980	0.872
ASPHALT	33,645	0.772
TOTAL	277,085	6.361
TOTAL IMPERVIOUS COVER		35.8 %

DEPTH-DURATION VALUES

STORM EVENT	DCM DEPTH (INCH)
2-YEAR SCS TYPE III, 24-HOUR	3.96
10-YEAR SCS TYPE III, 24-HOUR	6.44
25-YEAR SCS TYPE III, 24-HOUR	8.30
100-YEAR SCS TYPE III, 24-HOUR	11.76

- NOTES:
- DRAINAGE CALCULATION FOR THIS DEVELOPMENT ARE BASED UPON THE NOAA Atlas 14 PRECIPITATION FREQUENCY DATA WITH A MINIMUM TIME OF CONCENTRATION OF 5 MINUTES. OVERLAND FLOW AND OTHER HYDRAULIC CALCULATIONS ARE BASED UPON THE MANNING'S EQUATION.
 - TOPOGRAPHY SHOWN IS BASED UPON ON-SITE SURVEY DATA DATED FEBRUARY 2023 PERFORMED BY AES ENGINEERING CONSULTANT.
 - BASED ON THE ON-SITE INSPECTION AND TOPOGRAPHIC SURVEY, THE PRE-DEVELOPMENT CONDITION DOES NOT INCLUDE ANY EXISTING DETENTION OR WATER QUALITY POND.
 - BASED ON THE HISTORICAL ARIEL FROM historicaerials.com WEBSITE, THE EXISTING BUILDING AND PAVEMENT WERE BUILT BEFORE 1981.



JUNCTION 1

2-YRS	10-YRS	25-YRS	100-YRS
CFS	CFS	CFS	CFS
18.93	31.92	40.86	56.4

JUNCTION 2

2-YRS	10-YRS	25-YRS	100-YRS
CFS	CFS	CFS	CFS
2.23	3.62	4.57	6.21

EXISTING CONDITION

DESC.	AREA ACRE	AREA SQ.MI	CN	TC MIN	LAG	2-YRS CFS	10-YRS CFS	25-YRS CFS	100-YRS CFS
OFFSITE	0.919	0.001436	84	23.92	14.35	2.12	3.81	4.98	6.99
PRE-DA-1	5.897	0.009214	87.8	20.43	12.26	16.81	28.11	35.88	49.41
PRE-DA2	0.461	0.00072	91.28	5	3.00	2.17	3.56	4.52	6.17
TOTAL						21.1	35.48	45.38	62.57

Tc Calculations (SCS Unit Hydrograph Model)

AREA No.	Sheet Flow					Shallow Concentrated Flow					Total Tc (minimum 5 min)		Tlag
	L (ft)	n	s (ft/ft)	P ₂ (in)	t _{sheet} min	L (ft)	Surface	s (ft/ft)	V (fps)	t _{shallow} min	min	hrs	
OFFSITE	100	0.30	0.0100	3.96	20.23	357	Unpaved	0.0100	1.61	3.69	23.92	0.40	14.4
PRE DA-1	100	0.30	0.0200	3.96	15.34	698	Unpaved	0.0200	2.28	5.10	20.43	0.34	12.3

PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

OWNER:
RICHARD MINYARD
P.O. BOX 1149
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CIVIL ENGINEER:
AES Engineering Consultant
Ahmed El Sewify P.E.
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email: contact@aes-engs.com
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ARCHITECT:
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INFO@THESTUDIORM.COM
512.423.8147

Boundary Survey:
CRICHTON & ASSOCIATES
6448 US-290 #105
AUSTIN, TX 78753

GEOTECHNICAL ENGINEER
ARIAS
13581 POND SPRINGS RD, SUITE 210
AUSTIN, TEXAS 78729
737-220-0114



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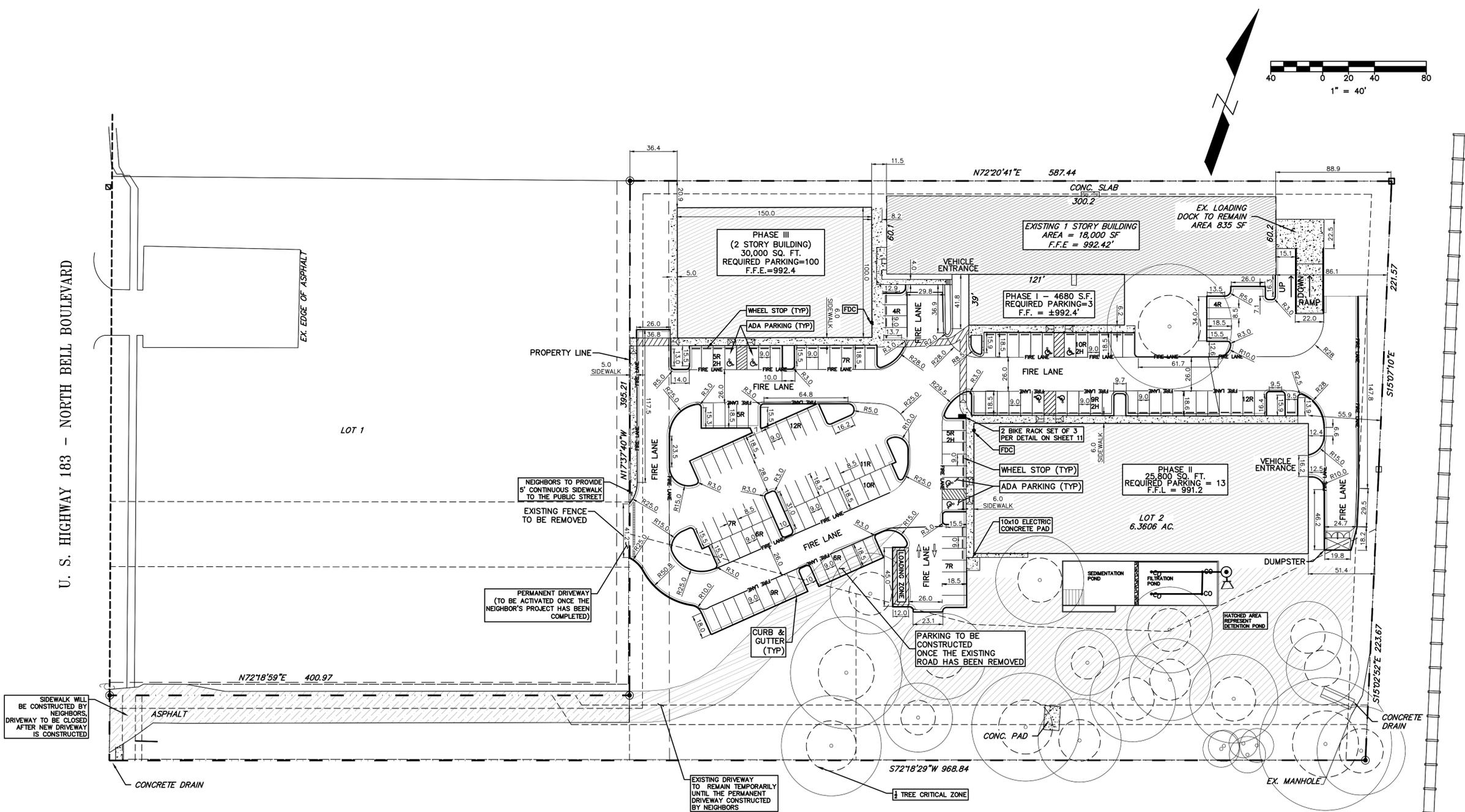
November 23, 2023



REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
SITE PLAN AND DIMENSIONS

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:40
SHEET NUMBER: 9 of 27	



PROPOSED IMPERVIOUS COVER

ITEM	AREA (SF)	AREA (AC)
GRASS	114,462 SF	2.628 AC.
BUILDING	63,480 SF	1.457 AC.
PAVEMENT & SIDEWALK	99,143 SF	2.276 AC.
TOTAL	277,085 SF	6.361 AC.
TOTAL IMPERVIOUS COVER		58.68 %

REQUIRED PARKING TABLE:

DESCRIPTION	AREA	USE	REQUIREMENT	REQUIRED PARKING
BUILDING 1 (EXIST)	18,000 SF	WAREHOUSE	1:2000 SF OF GFA	9
BUILDING 1 ADDITION	4,600 SF	WAREHOUSE	1:2000 SF OF GFA	3
BUILDING 2	25,800 SF	WAREHOUSE	1:2000 SF OF GFA	13
BUILDING 3 (2 STORY)	30,000 SF	OFFICES	1:300 SF OF GFA	100
TOTAL				125

PROVIDED PARKING SUMMARY

PROVIDED PARKING TABLE	
REGULAR PARKING	130
ADA PARKING	8
TOTAL	138

FIRE PROTECTION

FIRE LANE NOTES

- ALL BUILDINGS OF THIS PROJECT ARE WITHIN 300' OF THE PRIMARY FIRE HYDRANT AND 500' OF THE SECONDARY FIRE HYDRANT, AND 150' FROM A FIRE LANE OR PUBLIC STREET, EXTENDED TO 175' FOR A FULLY-SPRINKLED BUILDING.
- THE 26' FIRE LANE SHOWN HEREON SHALL BE MARKED PER DETAIL ON SHEET 23
- FIRE LANES SHALL BE CONSTRUCTED TO ADEQUATELY TOLERATE DEMANDS OF THE HEAVYWEIGHT VEHICLES PROVIDING FIRE PROTECTION SERVICES.

SIGNS AND OUTDOOR ADVERTISING DISPLAY

- SIGNS AND OUTDOOR ADVERTISING DISPLAY SHALL BE UNDER SEPARATE PERMIT.

ADA COMPLIANCE

- ALL INTERIOR AND EXTERIOR ADA DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CURRENT ADA GUIDELINES AND COMPLIANCE OF SAME SHALL BE THE SOLE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR AND PROJECT ARCHITECT. CONTRACTOR SHALL REVIEW PLANS AND NOTIFY PROJECT ARCHITECT/ENGINEER WITH ANY MODIFICATIONS REQUIRED FOR SUBSTANTIAL COMPLIANCE.
- APPROVAL OF THESE PLANS BY THE CITY OF CEDAR PARK INDICATES COMPLIANCE WITH APPLICABLE CITY REGULATION ONLY. COMPLIANCE WITH ACCESSIBILITY STANDARDS WAS NOT VERIFIED. THE APPLICANT IS RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY STANDARDS.
- SLOPES ON ACCESSIBLE ROUTE MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [ANSI 403.3]
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [ANSI 403.3]

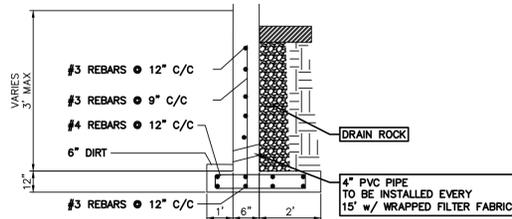
GENERAL NOTES:

- PAVERS MAY BE USED ON THE ADA ROUTE WITH THE FOLLOWING CONDITIONS:
 - JOINTS BETWEEN PAVERS 1/4" MAXIMUM
 - VERTICAL DIFFERENCES BETWEEN PAVERS 1/4" MAXIMUM
 - RUNNING SLOPE (IN THE DIRECTION OF TRAVEL) 1:20 (5%) MAXIMUM
 - CROSS SLOPE (PERPENDICULAR TO THE DIRECTION OF TRAVEL) 1/4" PER FOOT (2%) MAXIMUM.
 - REFERENCE ARCHITECTURAL PLANS FOR BUILDING LAYOUT.

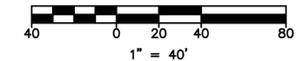
LEGEND

EXISTING	PROPOSED	DESCRIPTION
(---)	(---)	PROPERTY LINE / (R.O.W.) LINE
(---)	(---)	RECORD INFORMATION
(---)	(---)	LIGHT POLE
(---)	(---)	GROUND LIGHT
(---)	(---)	POWER POLE
(---)	(---)	DOWN GUY
(---)	(---)	TRANSFORMER (SIZE VARIES)
(---)	(---)	FIRE HYDRANT
(---)	(---)	WATER VALVE
(---)	(---)	WATER METER
(---)	(---)	WATER METER VAULT (SIZE VARIES)
(---)	(---)	CABLE TV RISER
(---)	(---)	ELECTRIC BOX
(---)	(---)	ELECTRIC METER
(---)	(---)	GRATE INLET
(---)	(---)	CURB INLET (SIZE VARIES)
(---)	(---)	OVERHEAD ELECTRIC
(---)	(---)	ELECTRIC MANHOLE (SIZE VARIES)
(---)	(---)	WASTEWATER MANHOLE (SIZE VARIES)
(---)	(---)	STORMSEWER MANHOLE (SIZE VARIES)
(---)	(---)	TELEPHONE MANHOLE (SIZE VARIES)
(---)	(---)	WASTEWATER CLEANOUT
(---)	(---)	CURB & GUTTER
(---)	(---)	EDGE OF PAVEMENT
(---)	(---)	FIRE LANE DESIGNATION
(---)	(---)	HANDICAP ACCESS ROUTE
(---)	(---)	CONCRETE SIDEWALKS
(---)	(---)	SIGN
(---)	(---)	FINISH FLOOR ELEVATION
(---)	(---)	PARKING COUNT (REGULAR SPACES)
(---)	(---)	PARKING COUNT (COMPACT SPACES)
(---)	(---)	HANDICAP SPACE

DRAWING PATH: -G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CA\SITE PLAN AND DIMENSIONS.DWG

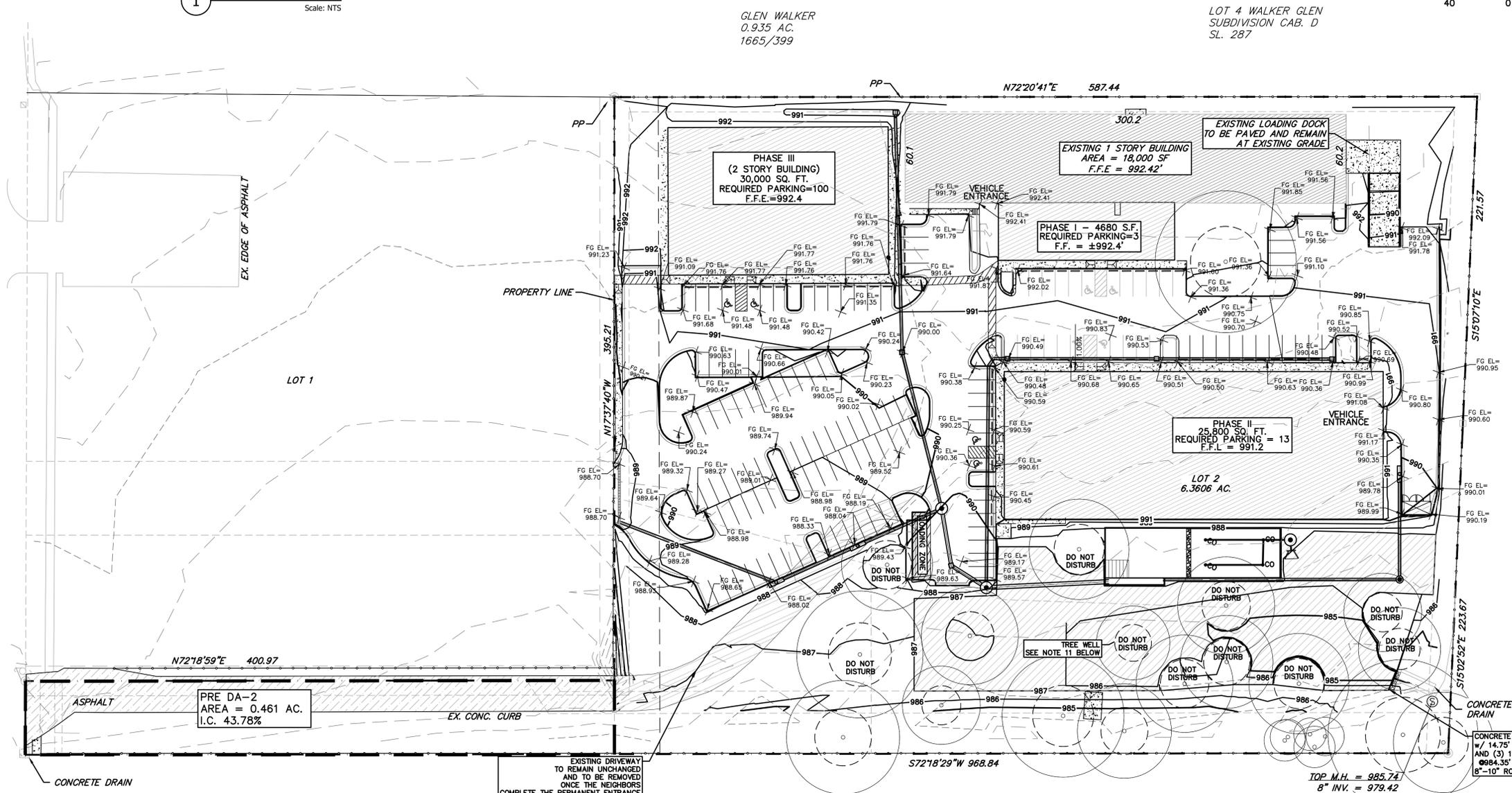


1 3' WALL DESIGN
Scale: NTS



CITY OF AUSTIN RAILROAD - (SOUTHERN PACIFIC RAILROAD) - 100' R.O.W.

U. S. HIGHWAY 183 - NORTH BELL BOULEVARD



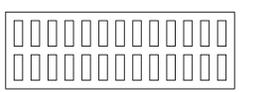
GLEN WALKER
0.935 AC.
1665/399

LOT 4 WALKER GLEN
SUBDIVISION CAB. D
SL. 287

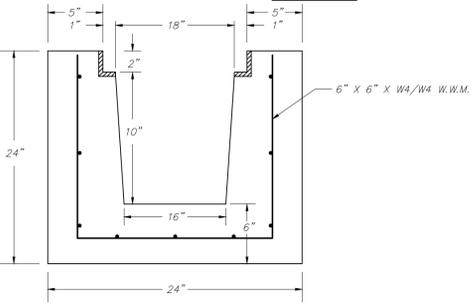
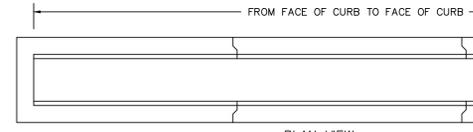
ROBERT WILSON
1723/216

Precast Concrete Sales Co.
123 Route 303 Valley Cottage, N.Y. 10989
Tel. (845) 268-4949 - Fax (845) 268-4376

TRENCH DRAIN		
DATE	DRAWN BY	DRAWING NO.
1/16	CLASSIC DESIGN	142



- NOTES:
- MINIMUM 4,000 PSI CONCRETE @ 28 DAYS
 - 60 GRADE REINFORCEMENT
 - APPROX. WEIGHT = 325 LBS/LIN.FT.



EXISTING DRIVEWAY TO REMAIN UNCHANGED AND TO BE REMOVED ONCE THE NEIGHBORS COMPLETE THE PERMANENT ENTRANCE

ACCESSIBILITY NOTES

- SLOPES ON ACCESSIBLE ROUTES MAY NOT EXCEED 1:20 UNLESS DESIGNED AS A RAMP. [TAS 4.3.7]
- THE MAXIMUM SLOPE OF A RAMP IN NEW CONSTRUCTION IS 1:12. THE MAXIMUM RISE FOR ANY RAMP RUN IS 30 IN. [TAS 4.8.2]
- ACCESSIBLE ROUTES MUST HAVE A CROSS-SLOPE NO GREATER THAN 1:50. [TAS 4.3.7]
- GROUND SURFACES ALONG ACCESSIBLE ROUTES MUST BE STABLE, FIRM, AND SLIP RESISTANT. [TAS 4.5.1]

EXISTING IMPERVIOUS COVER			
GRASS	191,228 SF	4.39 AC.	
BUILDING	18,046 SF	0.414 AC.	
CONCRETE	37,980 SF	0.872 AC.	
GRAVEL	61,86.84 SF	0.142 AC.	
ASPHALT	23,390 SF	0.537 AC.	
TOTAL	277,085 SF	6.361 AC.	
TOTAL IMPERVIOUS COVER			30.9 %

PROPOSED IMPERVIOUS COVER			
GRASS	114,462 SF	2.628 AC.	
BUILDING	63,480 SF	1.457 AC.	
PAVEMENT & SIDEWALK	99,143 SF	2.276 AC.	
TOTAL	277,085 SF	6.361 AC.	
TOTAL IMPERVIOUS COVER			58.68 %

SPOT ELEVATION LEGEND

- FG = FINISHED GRADE
- FL = FLOW LINE
- GB = GRADE BREAK
- G = GRADE
- TC = TOP OF CURB
- FTE = FINISH FLOOR ELEVATION

NOTES:

- CONTRACTOR SHALL ACHIEVE PROPOSED GRADES WITHIN ±0.2 FEET.
- DRIVEWAY SLOPE SHALL NOT EXCEED 10% SLOPE.
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM FOUNDATION. GRADE SHALL DROP A MINIMUM OF 6" IN 10' AWAY FROM FOUNDATION.
- CONTRACTOR SHALL MAINTAIN A MINIMUM SLAB EXPOSURE OF 6".
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN THE DIRECTION OF FLOW. ELIMINATING LOCALIZED HIGH POINTS OR DEPRESSIONS THAT CAN CAUSE PONDING.
- MINIMUM ACCEPTABLE FINAL GRADE SLOPE IS 1% UNLESS OTHERWISE NOTED.
- MAXIMUM ALLOWABLE UN-STABILIZED SLOPE IS 3:1 SLOPES EXCEEDING THIS LIMIT SHALL BE STABILIZED.
- CONTRACTOR SHALL CONTACT ENGINEER SHOULD THERE BE ANY QUESTION AS TO INTENT OF GRADING PLAN.
- SPOILS REMOVED FROM SITE SHALL BE TAKEN TO AN APPROVED DISPOSAL FACILITY.
- FILL SHALL BE PLACED IN ACCORDANCE WITH RECOMMENDATIONS IN SITE SPECIFIC GEO-TECHNICAL REPORT.
- CONTRACTOR MUST AVOID DISTURBING THE TREES 1/2 CRITICAL ZONE BY ADDING TREE WELL PER DETAIL ON SHEET 7

PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

OWNER:
RICHARD MINYARD
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512.423.8147

Boundary Survey:
CRICHTON & ASSOCIATES
6448 US-290 #105
AUSTIN, TX 78753

GEOTECHNICAL ENGINEER
ARIAS
13581 POND SPRINGS RD, SUITE 210
AUSTIN, TEXAS 78729
737-220-0114



Know what's below.
Call before you dig.

November 23, 2023



Ahmed El Seweify

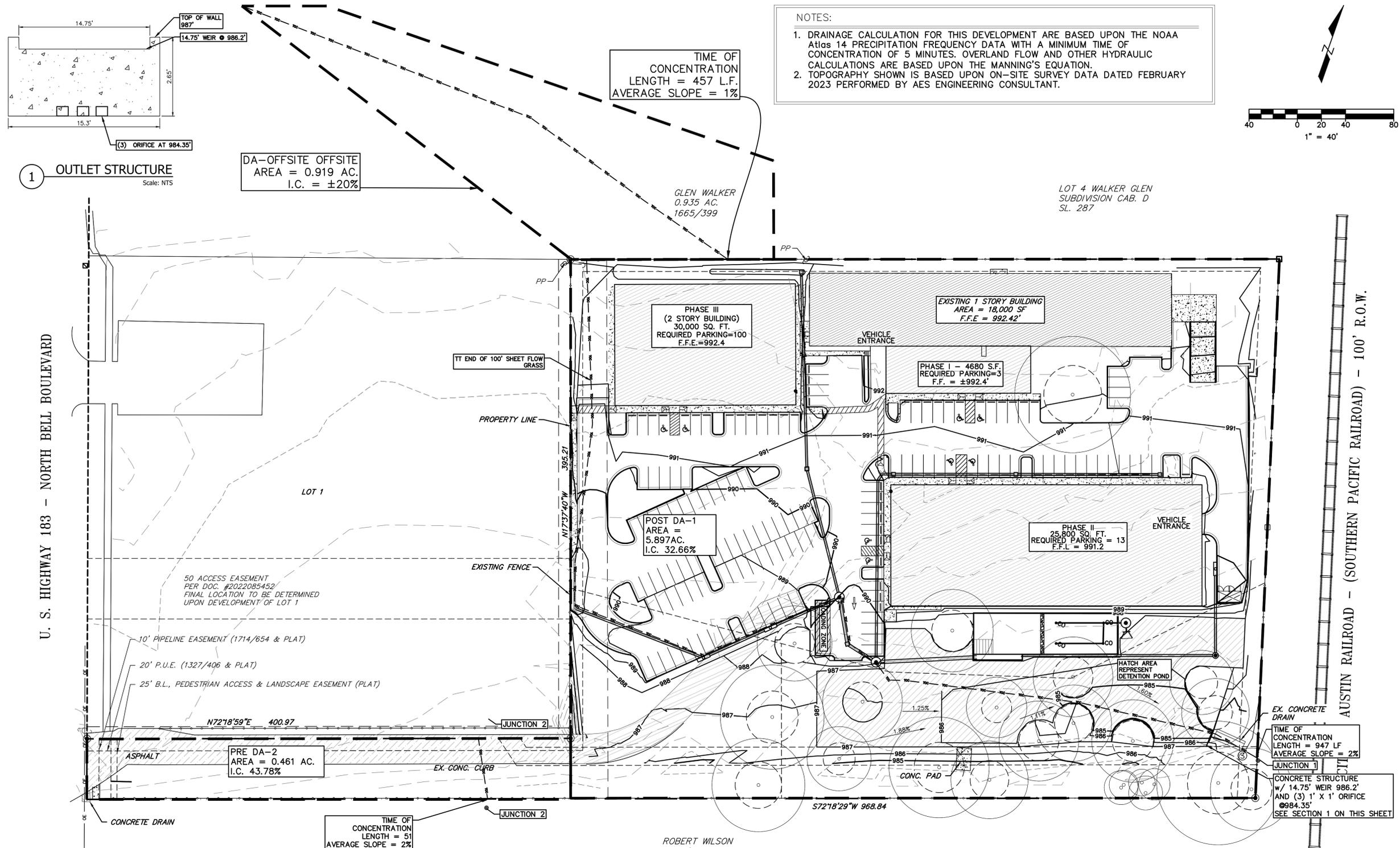
REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
GRADING PLAN

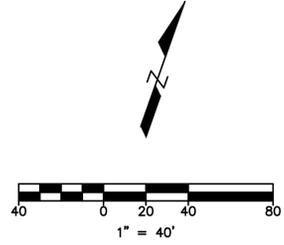
PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:40
SHEET NUMBER:	

12 of 27

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CAD\GRADING PLAN TRY.DWG



NOTES:
 1. DRAINAGE CALCULATION FOR THIS DEVELOPMENT ARE BASED UPON THE NOAA Atlas 14 PRECIPITATION FREQUENCY DATA WITH A MINIMUM TIME OF CONCENTRATION OF 5 MINUTES. OVERLAND FLOW AND OTHER HYDRAULIC CALCULATIONS ARE BASED UPON THE MANNING'S EQUATION.
 2. TOPOGRAPHY SHOWN IS BASED UPON ON-SITE SURVEY DATA DATED FEBRUARY 2023 PERFORMED BY AES ENGINEERING CONSULTANT.



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MINYARD PLUMBING

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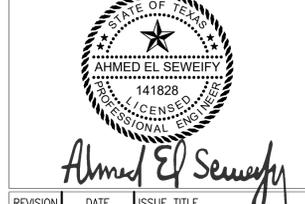
Boundary Survey:
 CRICHTON & ASSOCIATES
 6448 US-290 #105
 AUSTIN, TX 78753

GEOTECHNICAL ENGINEER
 ARIAS
 13581 POND SPRINGS RD, SUITE 210
 AUSTIN, TEXAS 78729
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November 23, 2023



REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
PROPOSED DRAINAGE PLAN

PROJECT NO:
 10-1024

DATE:
 2023-11-23

SHEET NUMBER:
 13 of 27

DRAWN & CHECKED BY:
 MRL AES

SCALE:
 1:40

DESC.	AREA		CN	TC	LAG	2-YRS				10-YRS				25-YRS				100-YRS			
	ACRE	SQ.MI				MIN	CFS	CFS	CFS	CFS	MIN	CFS	CFS	CFS	MIN	CFS	CFS	MIN	CFS	CFS	MIN
OFFSITE	0.919	0.001436	84	23.92	14.35	2.12	3.81	4.98	6.99	23.92	14.35	2.12	3.81	4.98	6.99	23.92	14.35	2.12	3.81	4.98	6.99
PRE-DA1	5.897	0.009214	88.05	20.43	12.26	16.81	28.11	35.88	49.41	20.43	12.26	16.81	28.11	35.88	49.41	20.43	12.26	16.81	28.11	35.88	49.41
PRE-DA2	0.461	0.00072	91.28	5	3.00	2.23	3.62	4.57	6.21	5	3.00	2.23	3.62	4.57	6.21	5	3.00	2.23	3.62	4.57	6.21
TOTAL	7.277	0.01137	84.33	23.92	14.35	2.12	3.81	4.98	6.99	23.92	14.35	2.12	3.81	4.98	6.99	23.92	14.35	2.12	3.81	4.98	6.99

Tc Calculations (SCS Unit Hydrograph Model)

AREA No.	Sheet Flow					Shallow Concentrated Flow					Total Tc (minimum 5 min)		T lag
	L (ft)	n	s (ft/ft)	P2 (in)	t _{sheet} min	L (ft)	Surface	s (ft/ft)	V (fps)	t _{shallow} min	min	hrs	
OFFSITE	100	0.30	0.0100	3.96	20.23	357	Unpaved	0.0100	1.61	3.69	23.92	0.40	14.4
PRE-DA-1	100	0.30	0.0200	3.96	15.34	698	Unpaved	0.0200	2.28	5.10	20.43	0.34	12.3
POST-DA1	100	0.30	0.0400	3.96	11.62	847	Paved	0.0200	2.87	4.91	16.53	0.28	9.9

TIME OF CONCENTRATION LENGTH = 51 AVERAGE SLOPE = 2% 5 MINUTES

CN CALCULATION (DA-1 PROPOSED)			
HYDROLOGY GROUP "D"			
DESC.	AREA	CN	AREA X CN
PERVIOUS	3.621	84	304.18
CONCRETE & ASPHALT	2.27577	98	223.03
GRAVEL	0	91	0.00
TOTAL AREA	5.897		
AVERAGE CN	89.40		

CN CALCULATION (DA-2)			
HYDROLOGY GROUP "D"			
DESC.	AREA	CN	AREA X CN
PERVIOUS	0.222	84	18.61
CONCRETE & ASPHALT	0.239738	98	23.49
GRAVEL	0	91	0.00
TOTAL AREA	0.461		
AVERAGE CN	91.28		

PROPOSED CONDITION									
DESC.	AREA	AREA	CN	TC	LAG	2-YRS	10-YRS	25-YRS	100-YRS
	ACRE	SQ.MI		MIN		CFS	CFS	CFS	CFS
OFFSITE	0.919	0.001436	84	23.92	14.35	2.12	3.81	4.98	6.99
POST-DA1	5.897	0.009214	88.05	20.43	12.26	19.26	31.9	40.44	55.15
POST-DA2	0.461	0.00072	91.28	5	3.00	2.23	3.62	4.57	6.21
TOTAL						23.61	39.33	49.99	68.35
POND OUTLET						15.34	21.14	30.7	48.42

JUNCTION 1				
2-YRS	10-YRS	25-YRS	100-YRS	
CFS	CFS	CFS	CFS	
17.46	24.95	35.68	55.41	

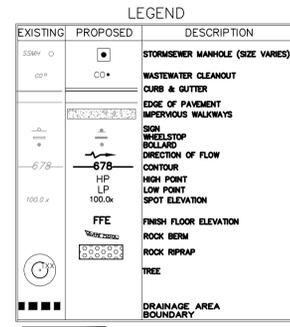
JUNCTION 2				
2-YRS	10-YRS	25-YRS	100-YRS	
CFS	CFS	CFS	CFS	
2.23	3.62	4.57	6.21	

DIFFERENCE BETWEEN PRE AND POST				
2-YRS	10-YRS	25-YRS	100-YRS	
CFS	CFS	CFS	CFS	
-1.47	-6.97	-5.18	-0.99	

STAGE / STORAGE / VOLUME		
EVENT	ELEVATION	VOLUME
YEAR	FT	CF
2-YRS	985.7'	5532.12
10-YRS	986.3'	15768.72
25-YRS	986.5'	20995.92
100-YRS	986.9'	27660.6

DEPTH-DURATION VALUES	
STORM EVENT	DCM DEPTH (INCH)
2-YEAR SCS TYPE III, 24-HOUR	3.96
10-YEAR SCS TYPE III, 24-HOUR	6.44
25-YEAR SCS TYPE III, 24-HOUR	8.30
100-YEAR SCS TYPE III, 24-HOUR	11.76

PROPOSED IMPERVIOUS COVER		
GRASS	114,462 SF	2.628 AC.
BUILDING	63,480 SF	1.457 AC.
PAVEMENT & SIDEWALK	99,143 SF	2.276 AC.
TOTAL	277,085 SF	6.361 AC.
TOTAL IMPERVIOUS COVER		58.68 %



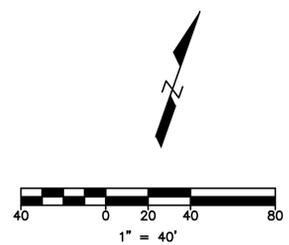
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BUILDING	63,480 SF	1.457 AC.	
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TOTAL	277,085 SF	6.361 AC.	
TOTAL IMPERVIOUS COVER			58.68 %

Inlet Calculations	
INLET 2	
Q=(3.0h ^{1.5})L ² Cf	4.24 cfs
Size of Inlet (length)	8 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	2.63
INLET 4	
Q=(3.0h ^{1.5})L ² Cf	6.36 cfs
Size of Inlet (length)	12 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	4.7
INLET 6	
Q=(3.0h ^{1.5})L ² Cf	4.24 cfs
Size of Inlet (length)	8 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	0.91
INLET 7	
Q=(3.0h ^{1.5})L ² Cf	4.24 cfs
Size of Inlet (length)	8 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	2.75
INLET 8	
Q=(3.0h ^{1.5})L ² Cf	4.24 cfs
Size of Inlet (length)	8 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	2.41
INLET 9	
Q=(3.0h ^{1.5})L ² Cf	6.36 cfs
Size of Inlet (length)	12 ft
h= height of head water	0.5 ft
Cf= Clogging factor	0.50
Q25 from Drainage Calcs	5.35

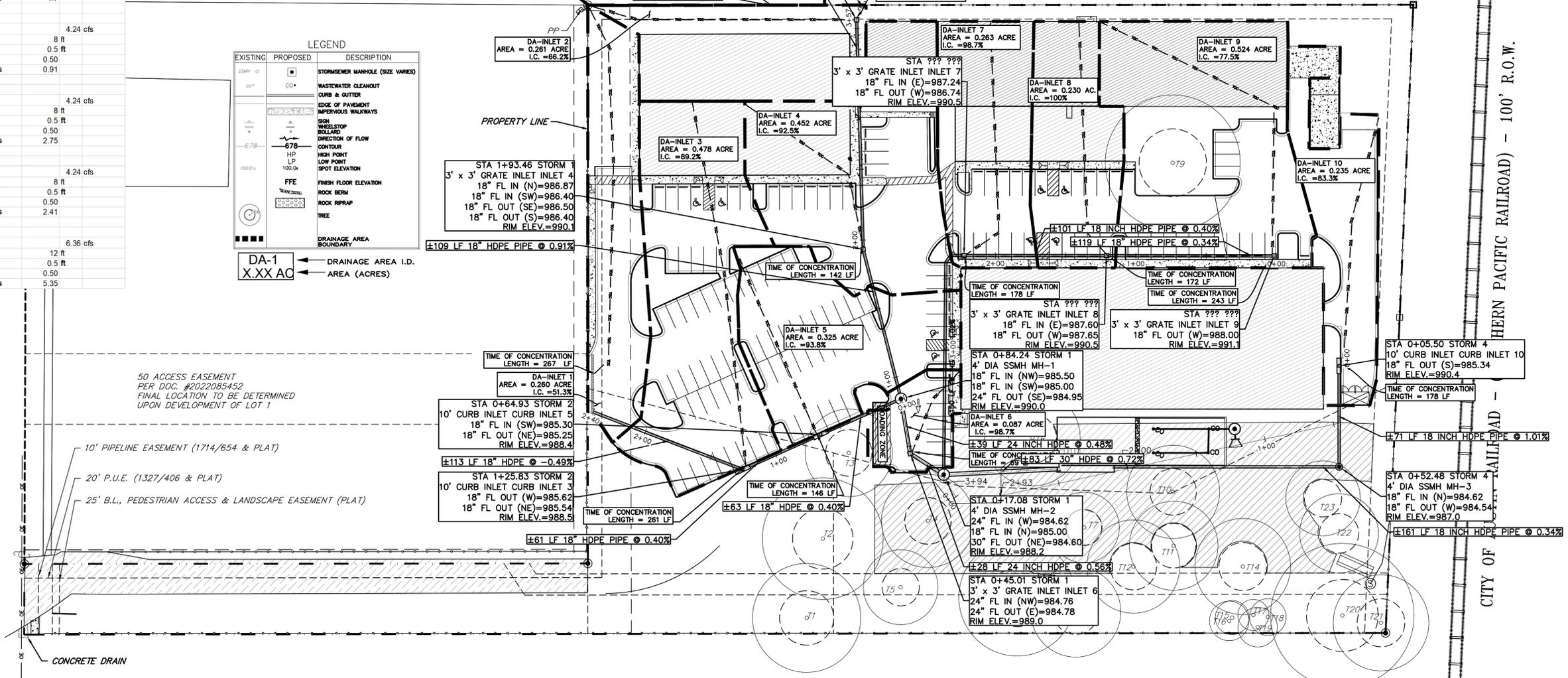
DA-OFFSITE OFFSITE
AREA = 0.919 AC.
I.C. = ±20%

DEPTH-DURATION VALUES	
STORM EVENT	DCM DEPTH (INCH)
2-YEAR SCS TYPE III, 24-HOUR	3.96
10-YEAR SCS TYPE III, 24-HOUR	6.44
25-YEAR SCS TYPE III, 24-HOUR	8.30
100-YEAR SCS TYPE III, 24-HOUR	11.76

NOTES:
1. DRAINAGE CALCULATION FOR THIS DEVELOPMENT ARE BASED UPON THE NOAA Atlas 14 PRECIPITATION FREQUENCY DATA WITH A MINIMUM TIME OF CONCENTRATION OF 5 MINUTES. OVERLAND FLOW AND OTHER HYDRAULIC CALCULATIONS ARE BASED UPON THE MANNING'S EQUATION.
2. TOPOGRAPHY SHOWN IS BASED UPON ON-SITE SURVEY DATA DATED FEBRUARY 2023 PERFORMED BY AES ENGINEERING CONSULTANT.



EXISTING	PROPOSED	DESCRIPTION
SSMH	SSMH	STORMSEWER MANHOLE (SIZE VARIES)
CO	CO	WASTEWATER CLEANOUT CURB & GUTTER
PP	PP	EDGE OF PAVEMENT IMPERVIOUS WALKWAYS
HP	HP	SIGN INTERSTOP BOLLARD
LP	LP	DIRECTION OF FLOW CONTOUR
FFE	FFE	FINISH FLOOR ELEVATION
ROCK	ROCK	ROCK BERM
RRAP	RRAP	ROCK RIPRAP
TREE	TREE	TREE
DA-1	DA-1	DRAINAGE AREA I.D. AREA (ACRES)



U. S. HIGHWAY 183

50' ACCESS EASEMENT PER DOC. #2022085452 FINAL LOCATION TO BE DETERMINED UPON DEVELOPMENT OF LOT 1

10' PIPELINE EASEMENT (1714/654 & PLAT)

20' P.U.E. (1327/406 & PLAT)

25' B.L., PEDESTRIAN ACCESS & LANDSCAPE EASEMENT (PLAT)

HERN PACIFIC RAILROAD - 100' R.O.W.
CITY OF ARLINGHAM

TIME OF CONCENTRATION

AREA No.	Sheet Flow				Shallow Concentrated Flow			Total T _c (minimum 5 min)		T lag			
	L (ft)	n	s (ft/ft)	P ₂ (in)	L (ft)	Surface	s (ft/ft)	V (fps)	min		hrs		
DA-INLET 1	100	0.30	0.0100	3.96	20.23	167	Paved	0.0100	2.03	1.37	21.60	0.36	13.0
DA-INLET 2	100	0.015	0.0200	3.96	1.40	91	Paved	0.0200	2.87	0.53	5.00	0.08	3.0
DA-INLET 3	100	0.015	0.0200	3.96	1.40	161	Paved	0.0200	2.87	0.93	5.00	0.08	3.0
DA-INLET 4	100	0.015	0.0200	3.96	1.40	42	Paved	0.0200	2.87	0.24	5.00	0.08	3.0
DA-INLET 5	100	0.015	0.0200	3.96	1.40	46	Paved	0.0200	2.87	0.27	5.00	0.08	3.0
DA-INLET 6	100	0.015	0.0200	3.96	1.40	0	Paved	0.0200	2.87	0.00	5.00	0.08	3.0
DA-INLET 7	100	0.015	0.0200	3.96	1.40	78	Paved	0.0200	2.87	0.45	5.00	0.08	3.0
DA-INLET 8	100	0.015	0.0200	3.96	1.40	72	Paved	0.0200	2.87	0.42	5.00	0.08	3.0
DA-INLET 9	100	0.015	0.0200	3.96	1.40	143	Paved	0.0200	2.87	0.83	5.00	0.08	3.0
DA-INLET 10	100	0.015	0.0200	3.96	1.40	78	Paved	0.0200	2.87	0.45	5.00	0.08	3.0

INLET FLOW CALCULATION						
DESC.	AREA ACRES	AREA SQ.MI	TC MIN	LAG	25-YRS CFS	
DA-OFFSITE	0.919	0.001435938	23.92	14.35	4.98	
DA-INLET 1	0.26	0.00040625	21.6	12.96	1.58	
DA-INLET 2	0.261	0.000407813	5	3.00	2.63	
DA-INLET 3	0.478	0.000746875	5	3.00	4.95	
DA-INLET 4	0.452	0.00070625	5	3.00	4.7	
DA-INLET 5	0.325	0.000507813	5	3.00	3.38	
DA-INLET 6	0.087	0.000135938	5	3.00	0.91	
DA-INLET 7	0.263	0.000410938	5	3.00	2.75	
DA-INLET 8	0.23	0.000359375	5	3.00	2.41	
DA-INLET 9	0.524	0.00081875	5	3.00	5.35	
DA-INLET 10	0.235	0.000367188	5	3.00	2.42	
DA-INLET 11	0.025	0.000039063	5	3.00	0.26	

ROBERT WILSON
1723/216

PIPE CALCULATION

TRENCH INLET 1 TO INLET 3 (18 INCH PIPE)					INLET 4 TO MH-1 (18 INCH PIPE)					INLET 8 TO INLET 7 (18 INCH PIPE)					INLET 10 TO MH 3 (18 INCH PIPE)				
n	a	R	s		n	a	R	s		n	a	R	s		n	a	R	s	
0.01	1.77	0.375	0.0049		0.01	1.77	0.375	0.0091		0.01	1.77	0.375	0.004		0.01	1.77	0.375	0.0028	
25 YEAR FLOW CALCULATED 1.58 CFS					25 YEAR FLOW CALCULATED 12.31 CFS					25 YEAR FLOW CALCULATED 7.76 CFS					25 YEAR FLOW CALCULATED 2.68 CFS				
PIPE CAPACITY 9.60 CFS					PIPE CAPACITY 13.08 CFS					PIPE CAPACITY 8.67 CFS					PIPE CAPACITY 7.28 CFS				

PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team
OWNER:
RICHARD MINYARD
P.O. BOX 1149
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CIVIL ENGINEER:
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AUSTIN, TX 78753

GEOTECHNICAL ENGINEER
ARIAS
13581 POND SRPINGS RD, SUITE 210
AUSTIN, TEXAS 78729
737-220-0114



November 23, 2023



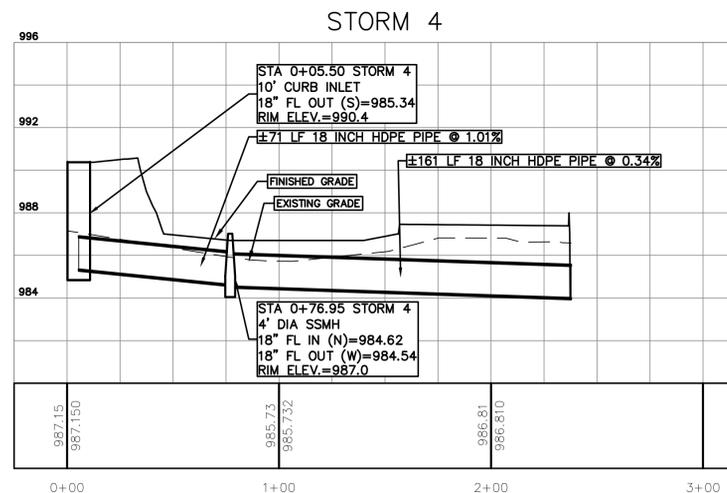
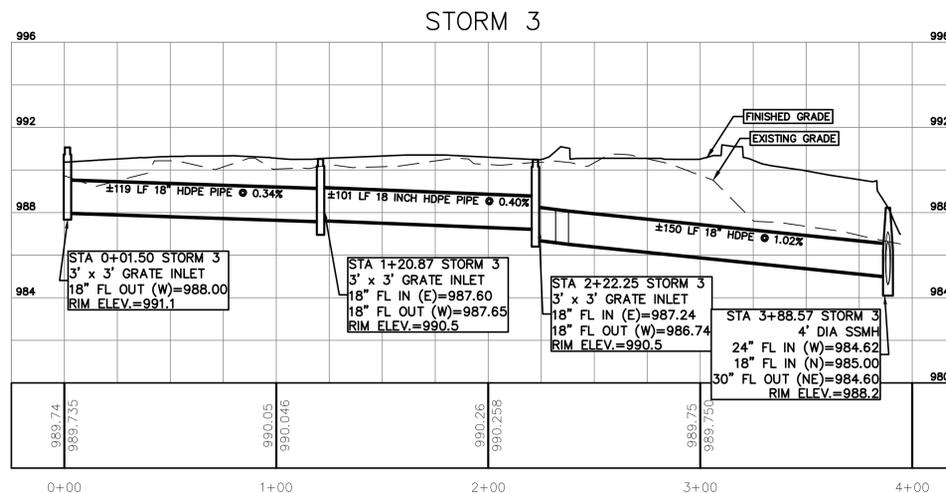
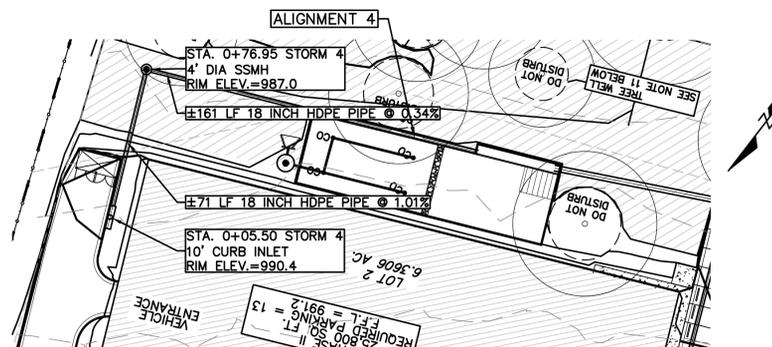
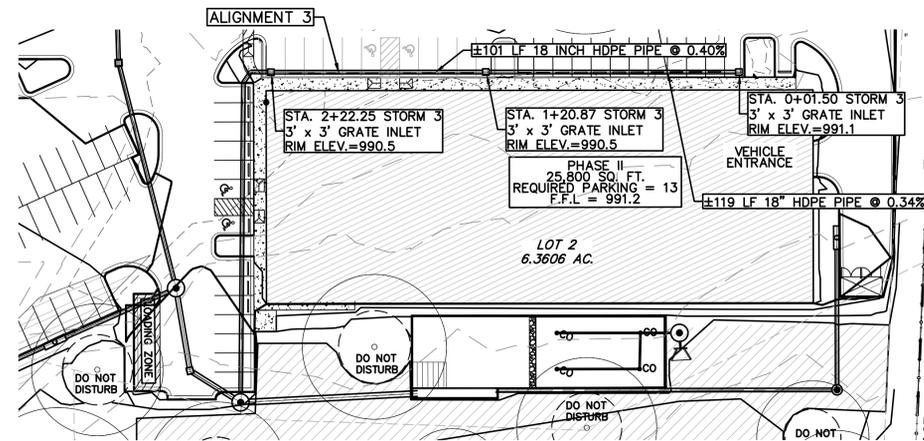
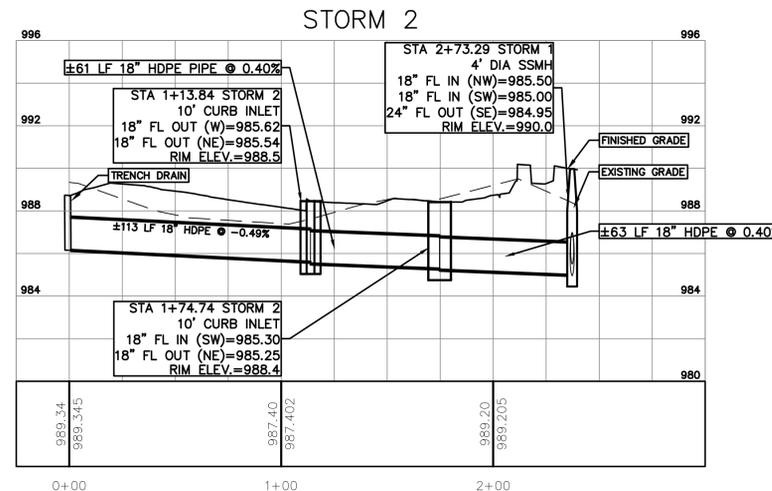
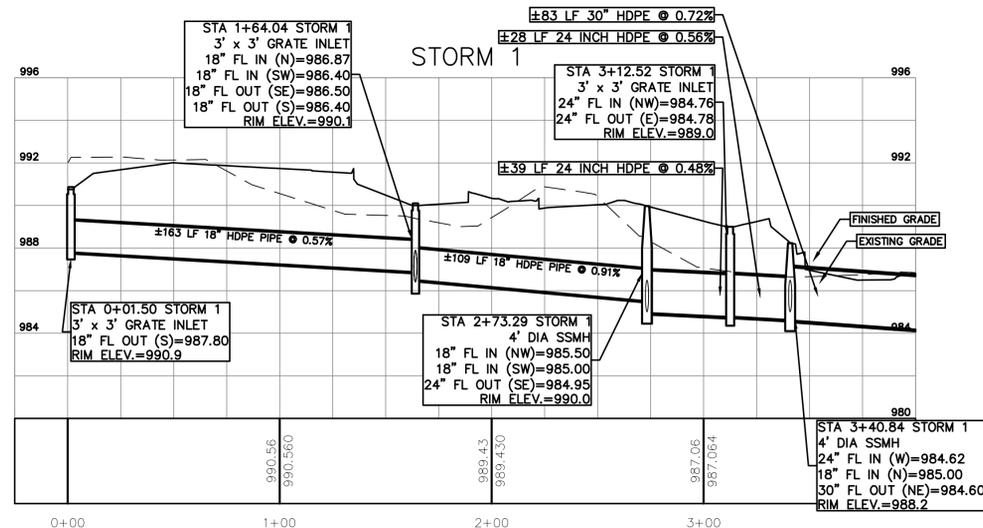
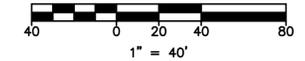
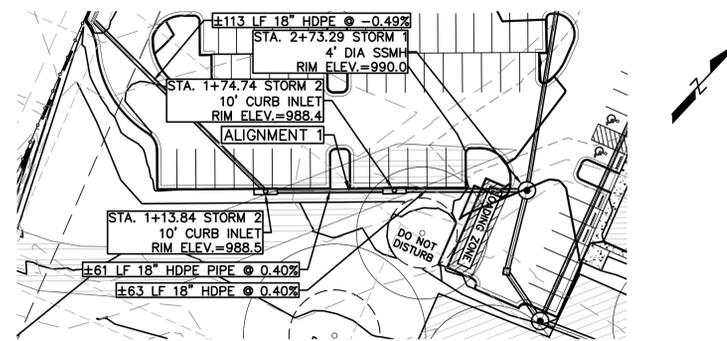
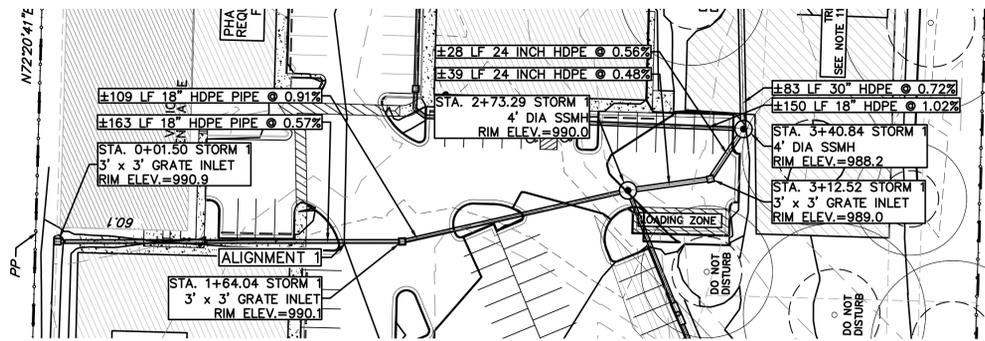
REVISION DATE ISSUE TITLE

DRAWING TITLE:
INLET CAPACITY CALCULATION

PROJECT NO: 10-1024
DATE: 2023-11-23
DRAWN & CHECKED BY: MRL
SCALE: 1:40

SHEET NUMBER:
14 of 27

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CA\PROPOSED DRAINAGE PLAN.DWG



PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

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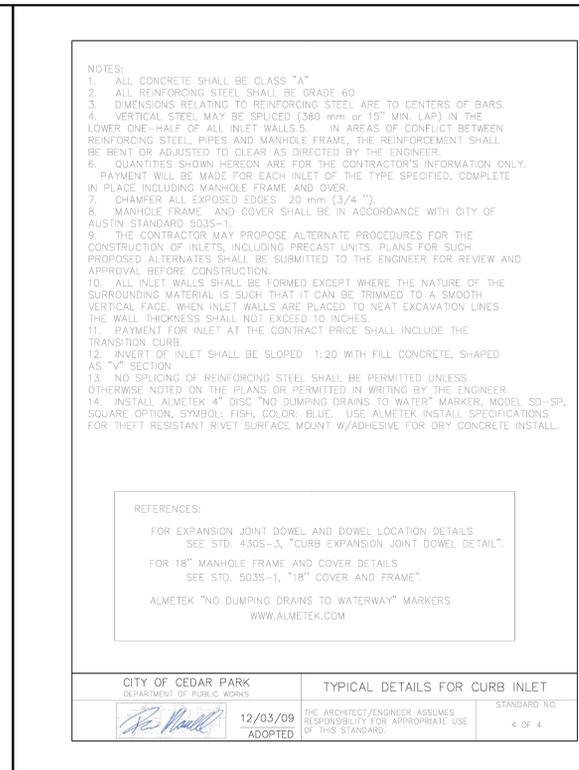
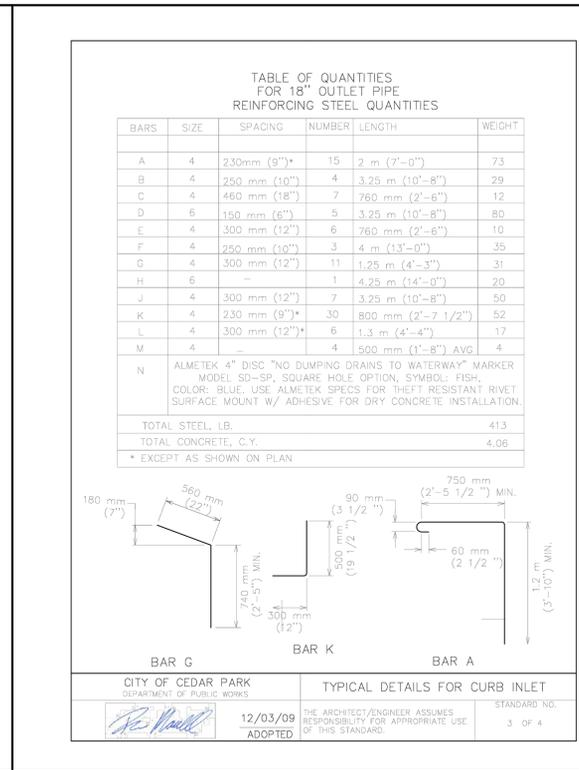
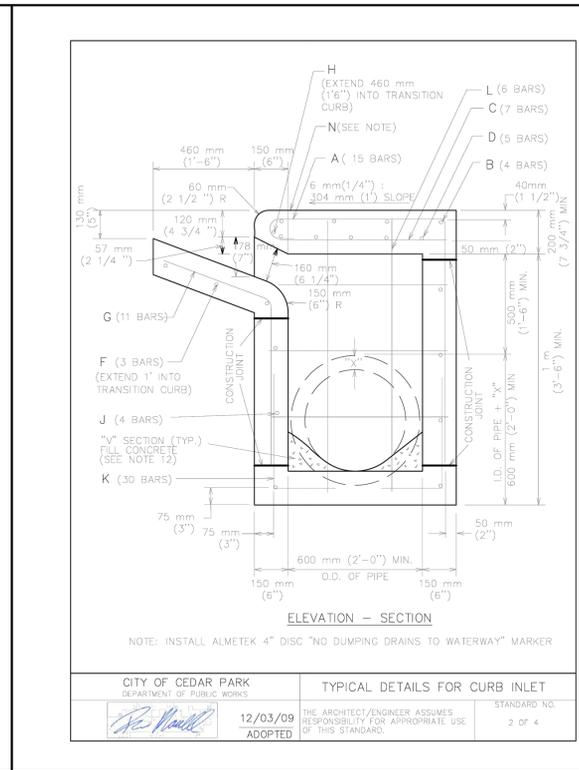
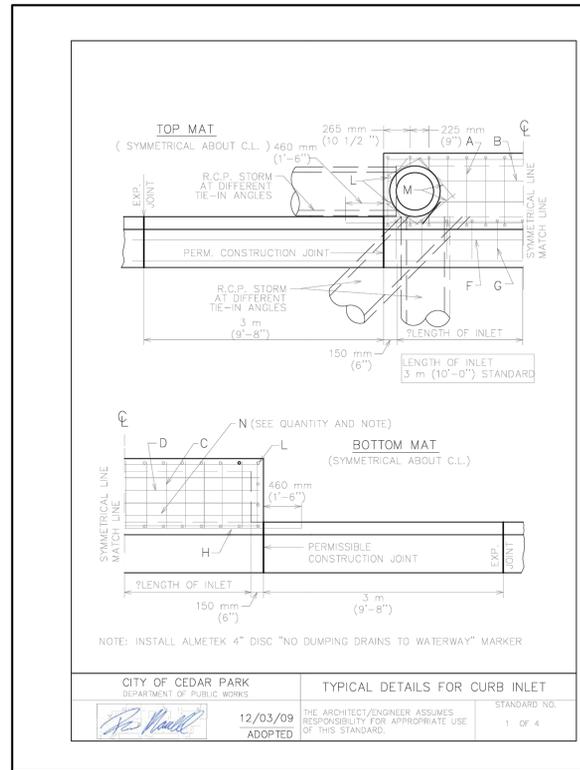
Ahmed El Sewify

REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
STORM PROFILE

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:40
SHEET NUMBER:	

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CAD\GRADING PLAN TRY.DWG



PROJECT:
MINYARD PLUMBING

LOCATION:
**1800 N. BELL BLVD.
CEDAR PARK, TX 78613**



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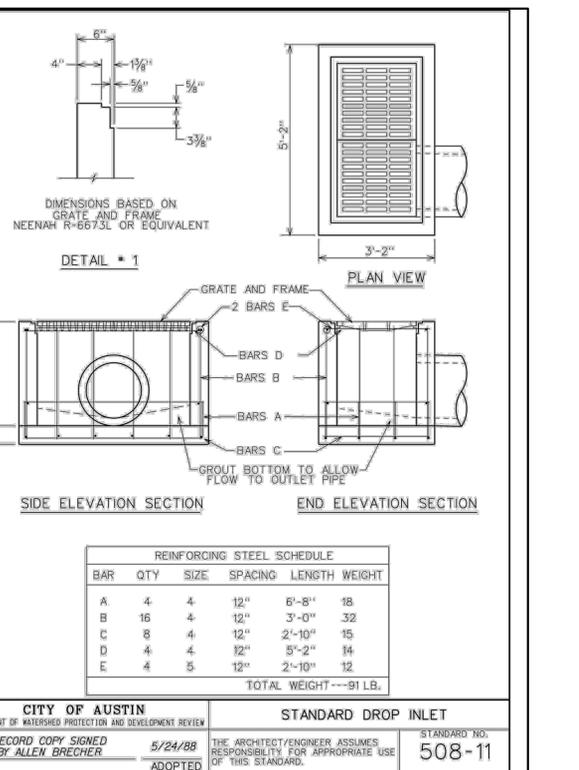
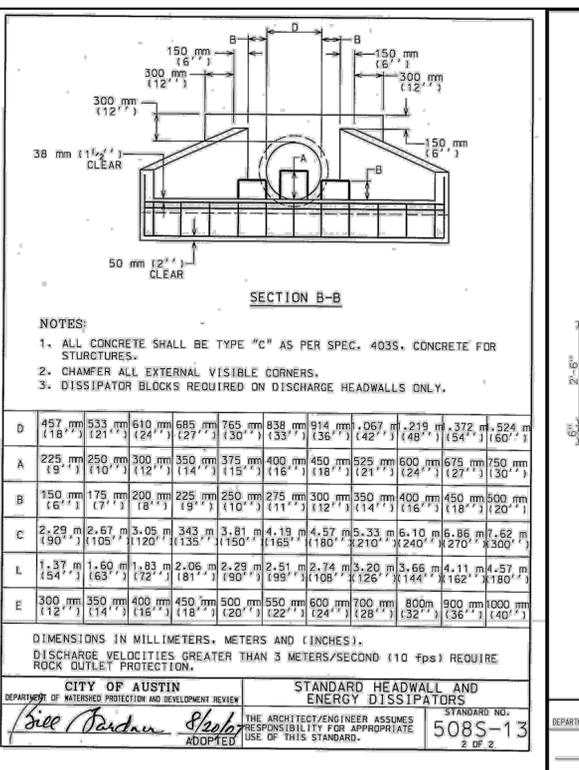
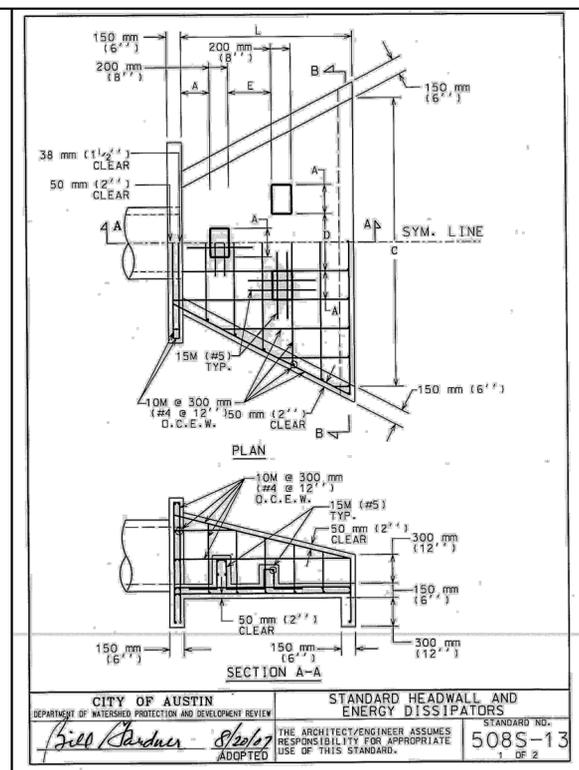
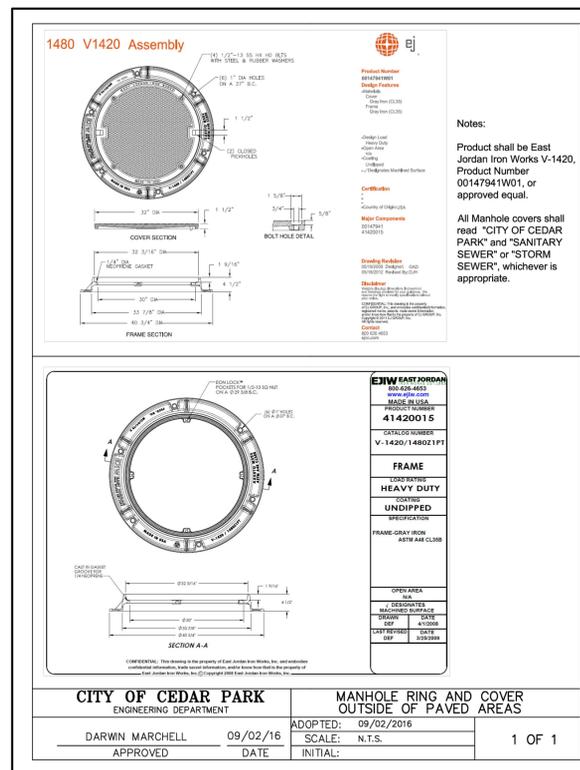
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6448 US-290 #105
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ARIAS
13581 POND SPRINGS RD, SUITE 210
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737-220-0114



November 23, 2023

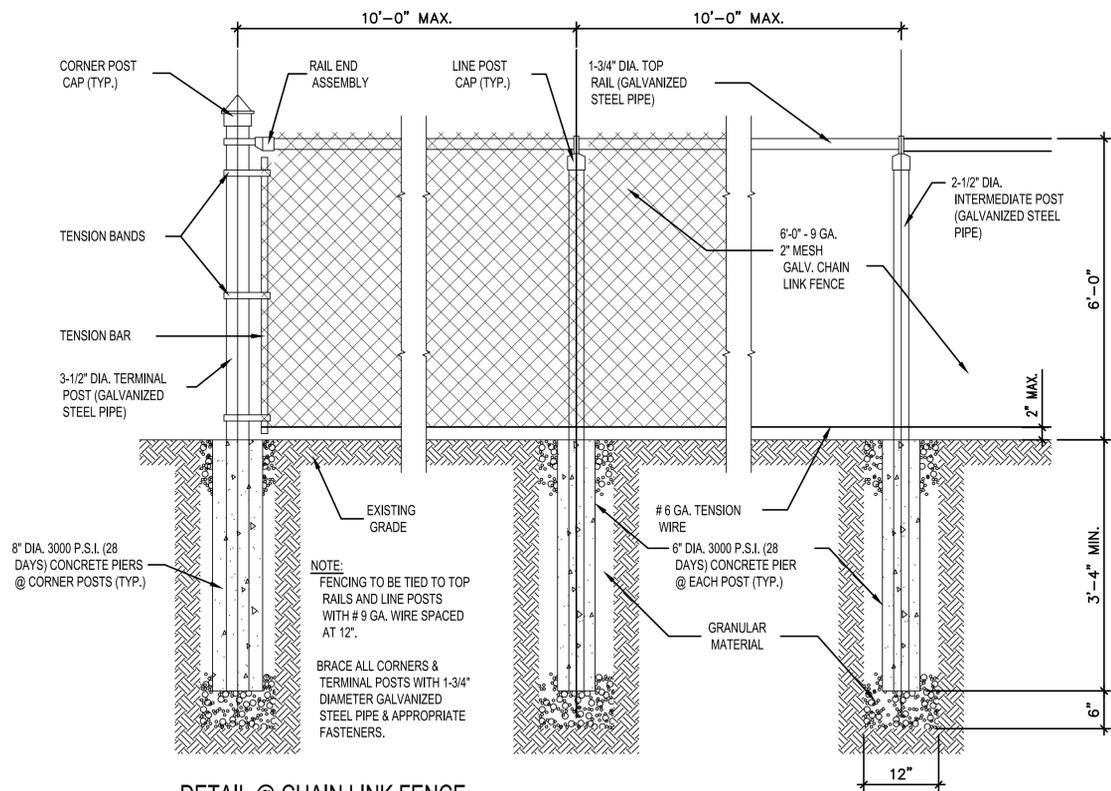
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REVISION	DATE	ISSUE TITLE

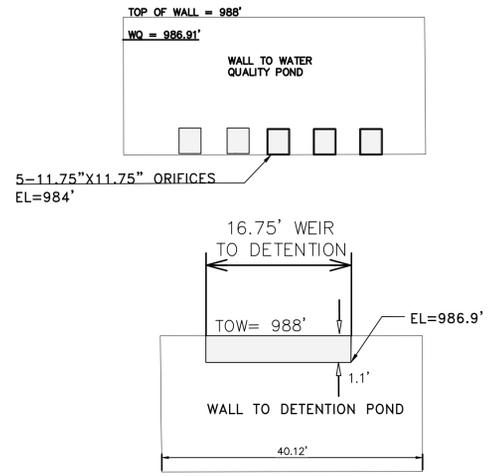
DRAWING TITLE:
DRAINAGE DETAIL

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRH AES
DATE: 2023-11-23	SCALE: NTS
SHEET NUMBER: 16 of 27	



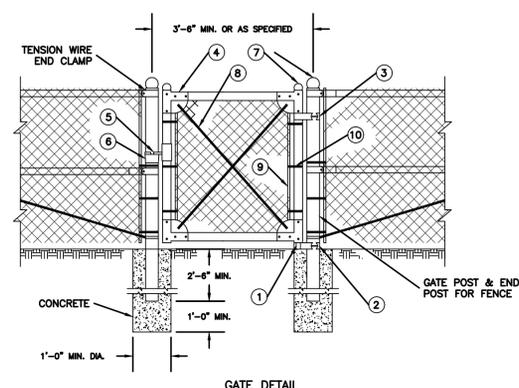
DETAIL @ CHAIN LINK FENCE

SCALE: NTS



1 SPLITTER BOX

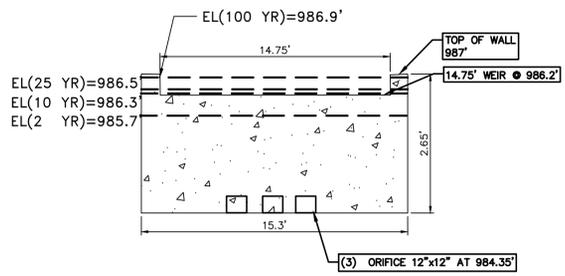
Scale: NTS



GATE DETAIL

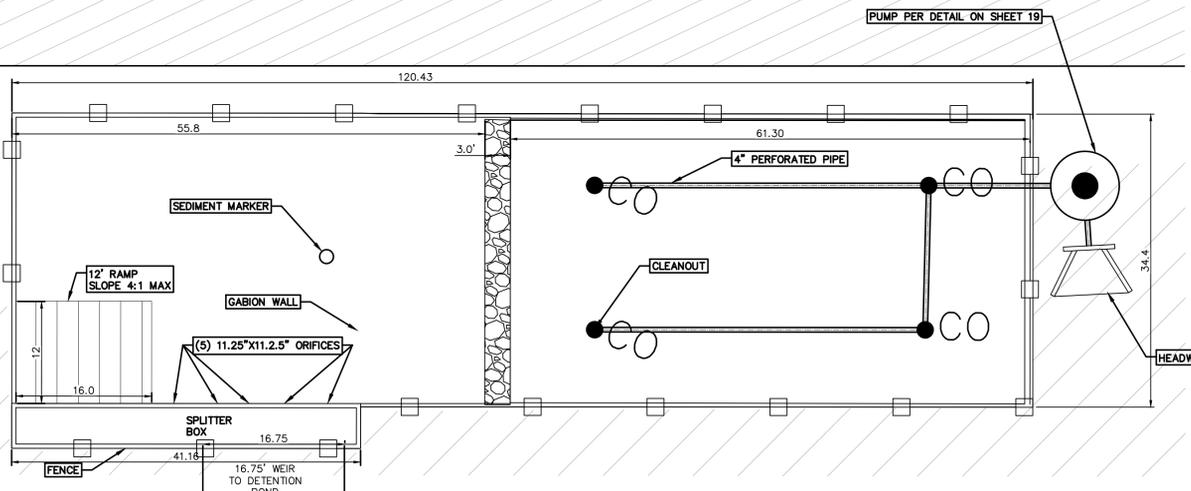
PART NO.	DESCRIPTION	QUANTITY
1	STRAIGHT PLUG	1
2	BOTTOM HINGE	1
3	TOP HINGE	1
4	CORNER ELBOW	4
5	LATCH FORK	1
6	FORK CATCH	1
7	ORNAMENTAL TOPS	4
8	TRUSS RODS	2
9	STRETCHER BAR	2
10	HOOK BOLTS	6

NOTE: THE FENCING SHALL BE #9 GAGE FENCE FABRIC, STANDARD 2-INCH CHAIN LINK DIAMOND MESH.



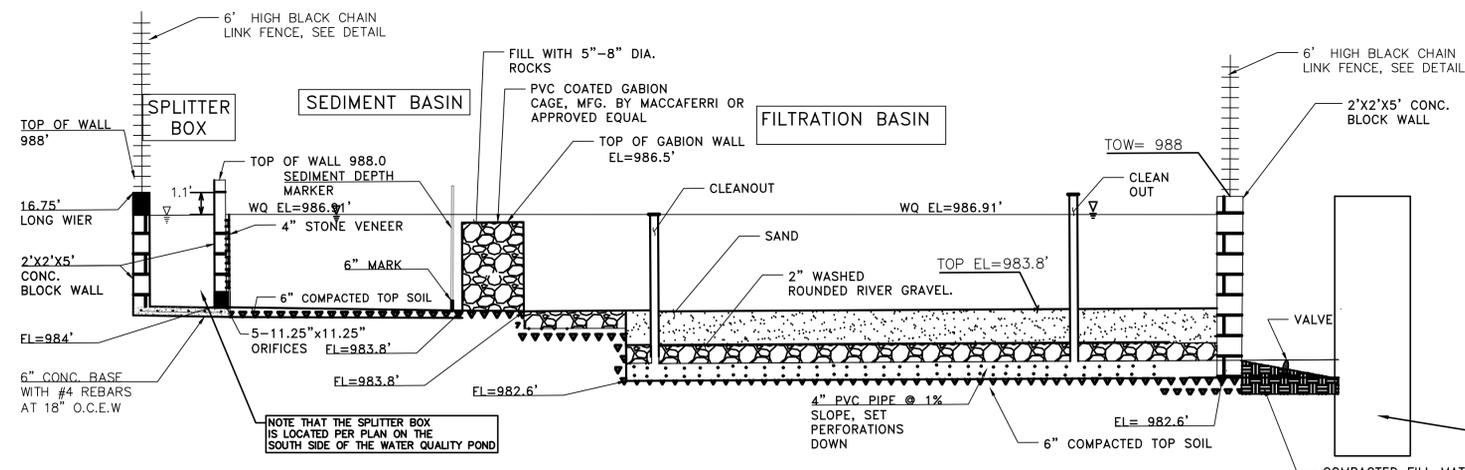
2 DETENTION POND OUTLET STRUCTURE

Scale: NTS



3 WATER QUALITY POND PLAN VIEW

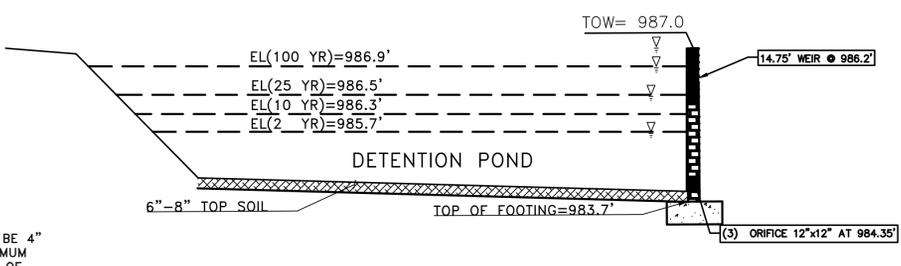
Scale: 1:10



3 WATER QUALITY CROSS SECTION

Scale: NTS

NOTE: ALL PIPING IS TO BE 4" SCHEDULE 40 PVC. MAXIMUM SPACING BETWEEN ROWS OF PERFORATIONS SHOULD NOT EXCEED SIX (6) INCHES.
 SAND: GRAIN SIZE .02-.04" UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2".
 SOIL MIX: 30-40% SAND, 60-70% TOPSOIL. SOIL MIX<5% CLAY, NO COMMERCIAL FERTILIZER, MANURE OR SANDY LOAM.



4 DETENTION POND CROSS SECTION

Scale: NTS

MINYARD PLUMBING

LOCATION:
 1800 N. BELL BLVD.
 CEDAR PARK, TX 78613



project team

OWNER:
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November 23, 2023



Ahmed El Sewify

REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
WATER QUALITY-1

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1"=40'
SHEET NUMBER: 17 of 34	

POND NOTES:
 1- INSTALL COMMON BERMUDA SOD FOR THE ENTIRE DETENTION POND & DISTURBED AREA.

2- INSTALL TEMPORARY IRRIGATION SYSTEM FOR DISTURBED AREA TO ESTABLISH LAWN AND PLANTS.

3- DETENTION BASIN FLOOR AFTER EXCAVATION IS SCARIFIED TO A DEPTH OF 2 TO 3 INCHES TO IMPROVE INFILTRATION.

4- 6 TO 8 INCHES OF TOPSOIL MUST BE ADDED TO DETENTION BASIN FLOOR WITH A MIXTURE OF 30% TO 40% SAND 60% TO 70% TOPSOIL AND SUGGEST 5%-10% COMPOST OR PEAT SOIL BLEND MUST HAVE CLAY CONTENT OF LESS THAN 20% AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 1 INCH. SANDY LOAM OR CALICHE IS NOT AN ACCEPTABLE SOIL.

5- THE RISER (STANDARD DRAWDOWN) SHOULD BE DOUBLE-WRAPPED WITH FILTER FABRIC UNTIL THE CONTRIBUTING DRAINAGE AREA IS VEGETATED AND STABILIZED.

SITE INFORMATION

TOTAL SITE AREA=6.36 AC
DRAINAGE AREA TO CONTROL=6.36 AC
PROPOSED IMPERVIOUS COVER=3.73 AC
PERVIOUS COVER=2.63 AC
% IMPERVIOUS COVER=1.96/3.38=58.65%

WATER QUALITY CONTROL CALCULATIONS

TOTAL AREA DRAINING TO THE POND=6.36 AC
DESIGN PEAK FLOW RATE=45.42 CFS(25 YRS FLOW)
DESIGN PEAK FLOW RATE=62.14 CFS(100 YRS FLOW)

	REQUIRED	PROVIDED
WATER QUALITY VOLUME	10,311 CF	-
CAPTURED VOLUME (REQUIRED WQ VOLUME X1.20)	12,509 CF	12,866.4 CF
SEDIMENT POND AREA (MIN/MAX)	258/4124 SF	2,000 SF
SEDIMENTATION POND VOLUME (Min. 20% WQV)	2,501.8 CF	6,400 CF
MINIMUM FILTRATION POND AREA	1,031 SF	2,027 SF
FILTRATION POND VOLUME	3,299.2 CF	6,486.4 CF
WATER QUALITY ELEVATION= 986.91' FEET		
HEAD REQUIRED TO PUSH 100 YR FLOW= 1.1 FEET		

STAGE-STORAGE TABLE

WATER QUALITY SEDIMENTATION POND				
ELEVATION	STAGE/ Δ (FT.)	AREA (SF)	Σ STORAGE (CU. FT.)	Σ STORAGE (AC. FT.)
983.8'	0 / 0'	2000	0	0
984.0'	1 / 0.2'	2000	400	0.009183
985.0'	1 / 1'	2000	2400	0.055096
986.0'	2 / 2'	2000	4400	0.10101
987.0'	3 / 3'	2000	6400	0.146924

*** STAGE / INCREMENTAL ELEVATION DIFFERENCE.

WATER QUALITY FILTRATION POND				
ELEVATION	STAGE/ Δ (FT.)	AREA (SF)	Σ STORAGE (CU. FT.)	Σ STORAGE (AC. FT.)
983.8'	0 / 0'	2027	0	0
984.0'	0 / 0'	2027	405.4	0.009307
985.0'	1 / 1'	2027	2432.4	0.05584
986.0'	2 / 2'	2027	4459.4	0.102374
987.0'	3 / 3'	2027	6486.4	0.148907

*** STAGE / INCREMENTAL ELEVATION DIFFERENCE.

RAIN EVENT	ELEV (FT)
2 YR	985.7'
10 YR	986.3'
25 YR	986.5'
100 YR	986.9'

SPLITTER BOX WEIR CALCULATION

$$Q = C \cdot L \cdot (H)^{3/2}$$

$$Q_{we} = 62.14 \text{ CFS}$$

$$C = 3.32$$

$$L = 16.75'$$

$$H^{3/2} = Q / C \cdot L$$

$$= 62.14 / (3.32 \cdot 16.75)$$

$$H = 1.1'$$

SPLITTER BOX ORIFICE CALCULATION

$$Q = C_d \cdot A \cdot (2gh)^{1/2}$$

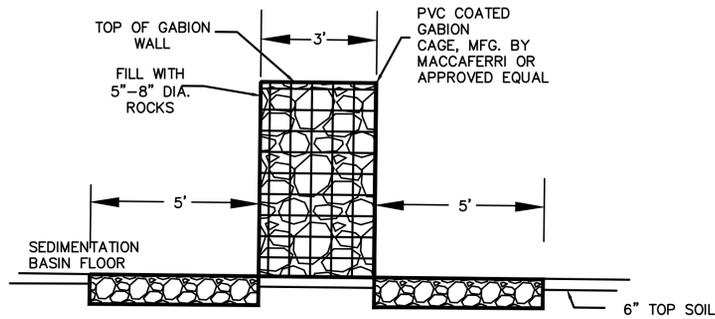
$$Q_{we} = 45.42 \text{ CFS}$$

$$K = 0.62$$

$$A = Q_{we} / C_d \cdot (2gh)^{1/2}$$

$$A = 45.42 / (0.62 \cdot (2 \cdot 32.2 \cdot 3)^{1/2}) = 2.53 \text{ SF}$$

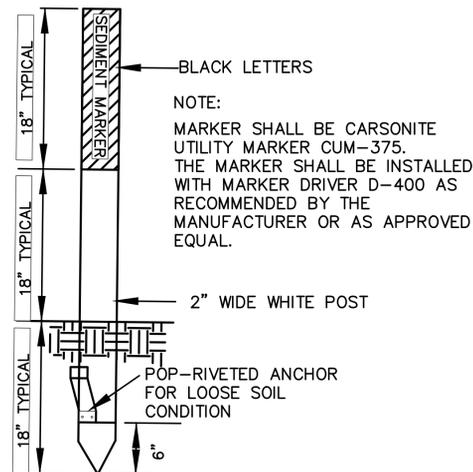
USE 5- 11.25" X 11.25" ORIFICES



NOTE: PLACE ON FULL WIDTH OF SEDIMENTATION BASIN.

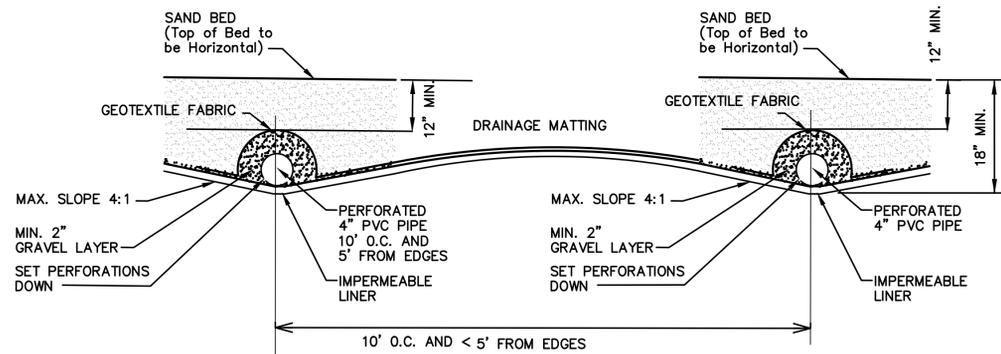
ROCK GABION DETAIL

N.T.S.



SEDIMENT DEPTH MARKER

N.T.S.



SAND BED PROFILE (TRENCH DESIGN)

THE TOP LAYER SHALL BE 12-18 INCHES OF WASHED CONCRETE SAND (ASTM C33 FINE AGGREGATE). LATERALS SHALL BE PLACED IN TRENCHES WITH A COVERING OF 1/2 TO TWO (2) INCH GRAVEL AND GEOTEXTILE FABRIC. THE LATERALS SHALL BE UNDERLAIN BY A LAYER OF DRAINAGE MATTING. THE DRAINAGE MATTING IS NEEDED TO PREVENT THE FILTER MEDIA FROM INFILTRATING INTO THE LATERAL PIPING. THE DRAINAGE MATTING IS NEEDED TO PROVIDE FOR ADEQUATE VERTICAL AND HORIZONTAL HYDRAULIC CONDUCTIVITY TO THE LATERALS.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: **Minyard**
 Date Prepared: **11/21/2023**

1. The Required Load Reduction for the total project: Calculations from RG-348

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

County = **Williamson**

Total project area included in plan = **6.36** acres
 Predevelopment impervious area within the limits of the plan = **1.97** acres
 Total post-development impervious area within the limits of the plan = **3.73** acres
 Total post-development impervious cover fraction = **0.59**
 P = **32** inches

LM TOTAL PROJECT = **1538** 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 = **6.36** acres
 Predevelopment impervious area within drainage basin/outfall area = **1.97** acres
 Post-development impervious area within drainage basin/outfall area = **4.92** acres
 Post-development impervious fraction within drainage basin/outfall area = **0.77**
 LM THIS BASIN = **2572** lbs.

3. Indicate the proposed BMP Code for this basin.

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

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

A_c = **6.36** acres
 A_i = **1.97** acres
 A_p = **4.40** acres
 L_R = **2004** lbs

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

Desired L_{in} THIS BASIN = **1800** lbs.
 F = **0.90**

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

Rainfall Depth = **1.70** inches
 Post Development Runoff Coefficient = **0.26**
 On-site Water Quality Volume = **10311** cubic feet

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

Off-site area draining to BMP = **0.92** 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 = **113** cubic feet

Storage for Sediment = **2085**
 Total Capture Volume (required water quality volume(s) x 1.20) = **12509** cubic feet

9. Filter area for Sand Filters Designed as Required in RG-348

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin = **12509** cubic feet
 Minimum filter basin area = **573** square feet
 Maximum sedimentation basin area = **5155** square feet For minimum water
 Minimum sedimentation basin area = **1289** square feet For maximum water

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins = **12509** cubic feet
 Minimum filter basin area = **1031** square feet
 Maximum sedimentation basin area = **4124** square feet For minimum water
 Minimum sedimentation basin area = **258** square feet For maximum water

PROJECT:
MINYARD PLUMBING

LOCATION:
**1800 N. BELL BLVD.
 CEDAR PARK, TX 78613**



project team
 OWNER:
**RICHARD MINYARD
 P.O. BOX 1149
 CEDAR PARK, TX 78613**

CIVIL ENGINEER:
**AES Engineering Consultant
 Ahmed El Seweify P.E.
 2514 PRESERVE TRAIL,
 CEDAR PARK, TX 78613
 Ph. (512) 785-9034
 email: contact@aes-engs.com
 Texas Firm F-22721**

ARCHITECT:
**STUDIO RM ARCHITECTURE
 651 N HWY. 183, LEANDER, TX 78641
 INFO@THESTUDIORM.COM
 512.423.8147**

Boundary Survey:
**CRICHTON & ASSOCIATES
 6448 US-290 #105
 AUSTIN, TX 78753**

GEOTECHNICAL ENGINEER
**ARIAS
 13581 POND SRPINGS RD, SUITE 210
 AUSTIN, TEXAS 78729
 737-220-0114**



November 23, 2023

Ahmed El Seweify

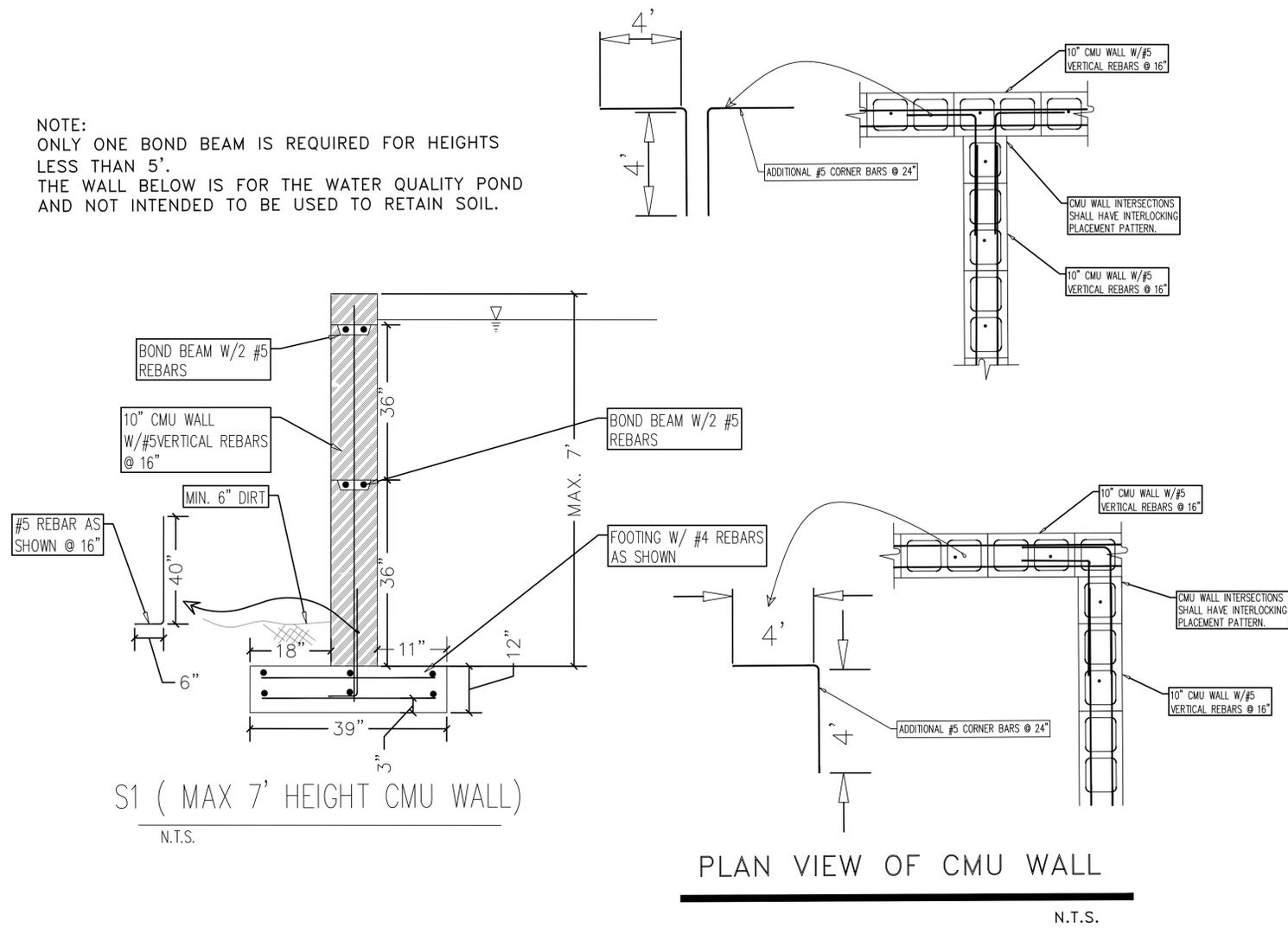
REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
WATER QUALITY -2

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1"=40'

SHEET NUMBER:
18 of 34

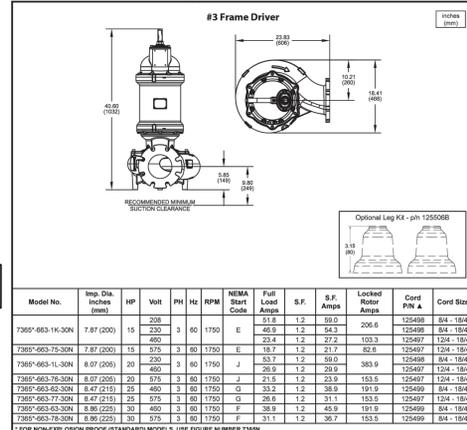
NOTE:
ONLY ONE BOND BEAM IS REQUIRED FOR HEIGHTS LESS THAN 5'.
THE WALL BELOW IS FOR THE WATER QUALITY POND AND NOT INTENDED TO BE USED TO RETAIN SOIL.



Size 6DL (Dual Vane)
3" Spherical Solids Handling
7365-663

DEMING
www.cranepumps.com

Demersible Non-Clog Pumps



Model No.	Imp. Dia. (mm)	HP	Volt	PH	RPM	NEMA Start Code	Full Load Amps	S.F.	S.F. Amps	Locked Rotor Amps	Cont. P.W. A	Cord Size	
7365-663-1H-30N	7.87 (200)	15	208	3	60	1750	E	21.8	1.2	59.0	125498	5/4 - 18/4	
7365-663-75-30N	7.87 (200)	15	230	3	60	1750	E	21.8	1.2	54.3	125498	5/4 - 18/4	
7365-663-15-30N	8.07 (205)	20	230	3	60	1750	J	29.9	1.2	29.9	125497	12/4 - 18/4	
7365-663-75-30N	8.07 (205)	20	230	3	60	1750	J	29.9	1.2	21.7	62.0	125497	12/4 - 18/4
7365-663-15-30N	8.07 (205)	20	230	3	60	1750	J	29.9	1.2	29.9	125497	12/4 - 18/4	
7365-663-75-30N	8.07 (205)	20	230	3	60	1750	J	29.9	1.2	29.9	125497	12/4 - 18/4	
7365-663-15-30N	8.47 (215)	25	460	3	60	1750	G	35.2	1.2	35.9	191.5	125499	8/4 - 18/4
7365-663-75-30N	8.47 (215)	25	460	3	60	1750	G	35.2	1.2	35.9	191.5	125499	8/4 - 18/4
7365-663-15-30N	8.86 (225)	30	460	3	60	1750	F	38.9	1.2	45.9	191.5	125499	8/4 - 18/4
7365-663-75-30N	8.86 (225)	30	460	3	60	1750	F	38.9	1.2	38.7	153.0	125499	8/4 - 18/4

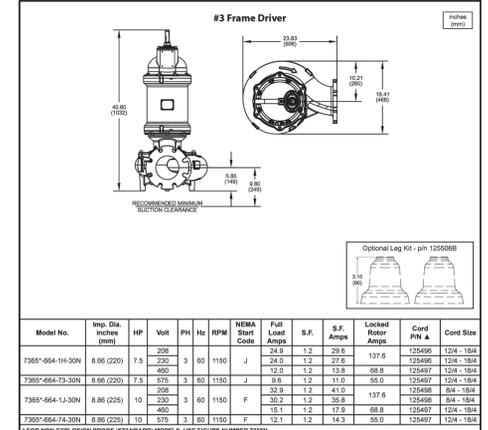
SECTION 43A
PAGE 64
DATE 2/18

CRANE PUMPS & SYSTEMS
A Crane Co. Company USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3588

Size 6DL (Dual Vane)
3" Spherical Solids Handling
7365-664

DEMING
www.cranepumps.com

Demersible Non-Clog Pumps



Model No.	Imp. Dia. (mm)	HP	Volt	PH	RPM	NEMA Start Code	Full Load Amps	S.F.	S.F. Amps	Locked Rotor Amps	Cont. P.W. A	Cord Size	
7365-664-1H-30N	8.00 (200)	7.5	230	3	60	1150	J	25.9	1.2	29.6	107.6	125496	12/4 - 18/4
7365-664-75-30N	8.00 (200)	7.5	230	3	60	1150	J	25.9	1.2	27.6	107.6	125496	12/4 - 18/4
7365-664-15-30N	8.86 (225)	10	230	3	60	1150	F	35.2	1.2	35.9	137.6	125497	12/4 - 18/4
7365-664-75-30N	8.86 (225)	10	230	3	60	1150	F	35.2	1.2	35.9	137.6	125497	12/4 - 18/4
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7365-664-75-30N	8.86 (225)	10	230	3	60	1150	F	35.2	1.2	35.9	137.6	125497	12/4 - 18/4

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PROJECT:
MINYARD PLUMBING

LOCATION:
1800 N. BELL BLVD.
CEDAR PARK, TX 78613

AES Engineering Consultant
project team

OWNER:
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GEOTECHNICAL ENGINEER
ARIAS
13581 POND SRPINGS RD, SUITE 210
AUSTIN, TEXAS 78729
737-220-0114

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

November 23, 2023

STATE OF TEXAS
AHMED EL SEWIFY
141828
LICENSED PROFESSIONAL ENGINEER

REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
WATER QUALITY-3

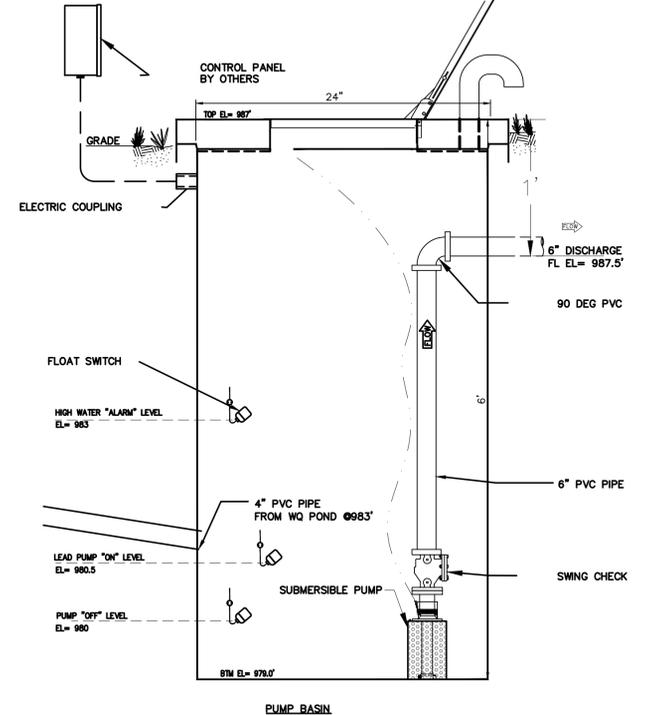
PROJECT NO: 10-1024
DATE: 2023-11-23
SHEET NUMBER:

DRAWN & CHECKED BY:
MRL
AES

SCALE: 1"=40'

19 of 34

PERMIT NO: TBD 11/23/2023 6:32:07 PM



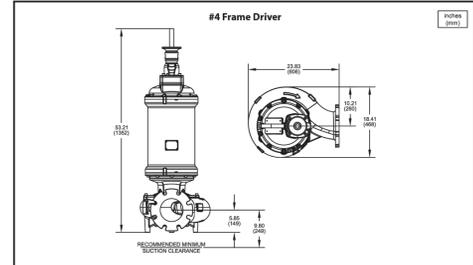
PUMP NOTES

- CONTACT ADVANCED MECHANICAL SYSTEM AT (512)280-4599 FOR PURCHASE, FINAL DESIGN AND MORE PUMP SPECIFICATIONS.
- 1 DEMING 7365N-664-1H-30N, 7.5 H.P., 230 VOLT, 3 PHASE, 1150 R.P.M., DEMING NON CLOG, W/6" DISCHARGE, W/ 20" POWER CORD AND 190 MM IMPELLER
 - 2 1 # GP 1012, SIMPLEX CONTROL PANEL, W/H.W.A. AUDIO AND VISUAL, W/SEPERATE CIRCUIT, W/NEMA 3-R ENCLOSURE.
 - 3 1 # PD-15-N/P PUMP FLOAT.
 - 4 1 # PM-20-N/O ALARM FLOAT.
 - 5 1 # 1520-15 PVC CHECK VALVE
 - 6 1 # 2622-15 PVC BALL VALVE
 - 7 1 2-1/2 #457-15 PVC UNION
 - 8 1 1-1/2 PVC MALE ADAPTER
 - 9 1 1-1/2 PVC 90 DEGREE ELL.
 - 10 1 24"x72" FIBERGLASS BASIN, W/SOLID FIBERGLASS COVER, W/(1) 6" INLET HUB, W/(1) 6" DISCHARGE, & (1)6 ELECTRICAL HUB.
- A DUAL PUMP SYSTEM IS REQUIRED WITH EACH PUMP CAPABLE OF DELIVERING 100% OF THE DESIGN CAPACITY. ECM 1.6.7(A) (3)
 - PLUG VALVES MUST BE LOCATED OUTSIDE THE WET WELL ON THE DISCHARGE SIDE OF EACH PUMP TO ISOLATE PUMPS FOR MAINTENANCE AND THROTTLING. PLEASE INCLUDE THE REQUIRE PLUG VALVES IN THE DESIGN. ECM 1.6.7(A) (2)
 - FLOAT CONTROLS. FOUR CONTROL SETTING MUST BE USED: (1) ONE FOR STARTING THE PUMP, (2) ONE FOR SHUTTING OFF THE PUMP AT THE NORMAL LOW WATER LEVEL, (3) ONE FOR BACK UP SHUT OFF THE PUMP IN CASE THE FIRST SHUT-OFF FAILS, AND (4) ONE TO INDICATE A HIGH WATER LEVEL. [ECM 1.6.7(A) (2)]
 - AN ALARM SYSTEM SHALL BE PROVIDED CONSISTING OF A RED LIGHT LOCATED AT A HEIGHT OF AT LEAST 5 FEET ABOVE THE GROUND LEVEL AT THE WET WELL. THE ALARM SHALL ACTIVATE WHEN: THE HIGH WATER LEVEL HAS BEEN MAINTAINED IN EXCESS OF 72 HOURS. THE WATER LEVEL IS BELOW THE SHUTOFF FLOAT AND THE PUMP HAS NOT TURNED OFF. THE HIGH/LOW-PRESSURE PUMP SHUT OFF SWITCH HAS BEEN ACTIVATED.
 - THE ALARM MUST BE VANDAL PROOF AND WEATHER RESISTANT. ECM 1.6.7(A)(2)
 - A GREEN "PUMP RUN LIGHT" SHALL BE PROVIDED WHICH IS ACTIVATED ANY TIME A PUMP IS RUNNING. THE GREEN LIGHT SHOULD BE LOCATED DIRECTLY ADJACENT TO THE RED ALARM LIGHT. PROVIDE PUMP DETAILS INDICATING THIS. ECM 1.6.7(A) (2)
 - ALL VALVES MUST BE DESIGNED SPECIFICALLY FOR SEDIMENT BEARING WATER, AND BE OF APPROPRIATE DESIGN FOR THE INTENDED PURPOSE. ALL REMOTE CONTROL, GATE, AND QUICK COUPLING VALVES MUST BE LOCATED IN TEN-INCH OR LARGER PLASTIC VALVE BOXES.
 - SYSTEMS MUST INCLUDE A PLUG VALVE TO ALLOW FLUSHING AT THE END OF EVERY LINE.
 - THE WET WELL MUST BE CONSTRUCTED OF PRECAST OR CAST IN PLACE CONCRETE.
 - COMPLETE ACCESS TO THE PUMPS AND OTHER INTERNAL COMPONENTS OF THE WET WELL FOR MAINTENANCE MUST BE PROVIDED THROUGH A LOCKABLE HATCH COVER.
 - THE PUMP INSTALLATION IN THE WET WELL AND ACCESS TO THE WET WELL MUST BE DESIGNED TO ALLOW THE PUMPS TO BE REMOVED USING TRUCK-MOUNTED HYDRAULIC HOIST EQUIPMENT OR A PORTABLE "A-FRAME."
 - A SYSTEM MUST BE PROVIDED TO ALLOW PUMP REMOVAL WITHOUT ENTERING THE WET WELL. IF RAILS ARE USED, THEY MUST BE STAINLESS STEEL.

Size 6DL (Dual Vane)
3" Spherical Solids Handling
7365-663

DEMING
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Demersible Non-Clog Pumps



Model No.	Imp. Dia. (mm)	HP	Volt	PH	RPM	NEMA Start Code	Full Load Amps	S.F.	S.F. Amps	Locked Rotor Amps	Cont. P.W. A	Cord Size	
7365-663-1H-30N	8.07 (205)	20	208	3	60	1750	G	63.0	1.2	74.8	323.0	130310	6/4 - 18/4
7365-663-32-30N	8.47 (215)	25	230	3	60	1750	G	71.8	1.2	83.4	359.0	130310	2/4 - 18/4
7365-663-33-30N	8.86 (225)	30	230	3	60	1750	E	59.4	1.2	51.8	359.0	130310	2/4 - 18/4
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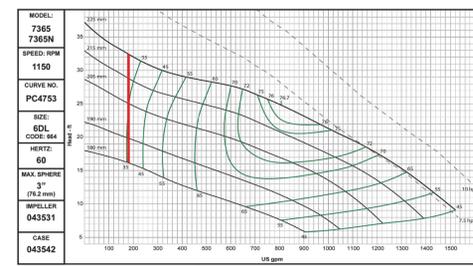
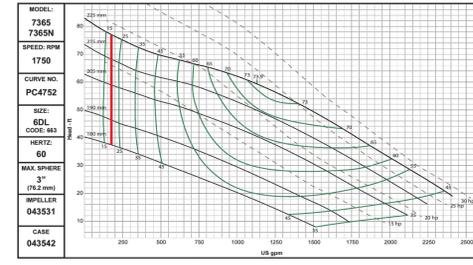
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Performance Curves
6DL

DEMING
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Demersible Non-Clog Pumps

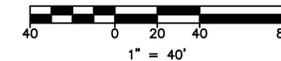


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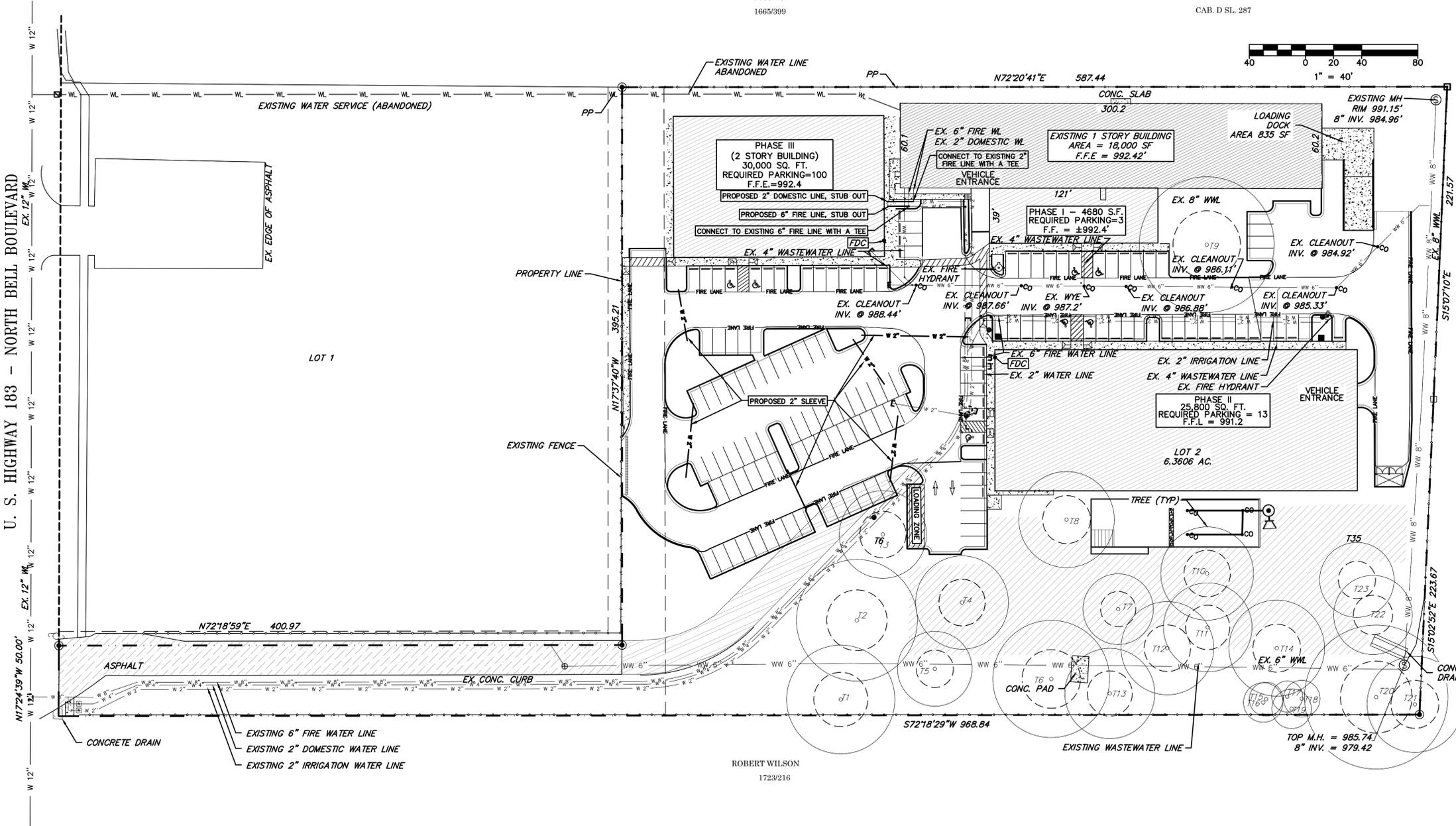
CRANE PUMPS & SYSTEMS
A Crane Co. Company USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3588

GLEN WALKER
0.935 AC.
1665/399

LOT 4
WALKER GLEN
SUBDIVISION
CAB. D SL. 287



U. S. HIGHWAY 183 - NORTH BELL BOULEVARD



LOT 1

LOT 2
6.3606 AC.

ROBERT WILSON
1723/216

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE / (R.O.W.) LINE
		RECORD INFORMATION
		LIGHT POLE
		GROUND LIGHT
		POWER POLE
		DOWN GUY
		TELEPHONE MANHOLE
		WATER MANHOLE
		WATER LINE MARKER
		SPRINKLER CONTROL BOX
		TRANSFORMER (SIZE VARIES)
		FIRE HYDRANT
		WATER VALVE
		WATER METER
		WATER METER VAULT (SIZE VARIES)
		ELECTRIC BOX
		ELECTRIC METER
		GAS METER
		GAS VALVE
		OVERHEAD ELECTRIC
		WASTEWATER MANHOLE (SIZE VARIES)
		STORMSEWER MANHOLE (SIZE VARIES)
		TELEPHONE MANHOLE (SIZE VARIES)
		WASTEWATER CLEANOUT
		CHAIN LINK FENCE
		CURB & GUTTER
		EDGE OF PAVEMENT
		FIRE LINE DESIGNATION
		HANDICAP ACCESS ROUTE
		CONCRETE SIDEWALKS
		SIGN
		WHEELSTOP
		FINISH FLOOR ELEVATION
		HANDICAP SPACE
		BIKE PARKING
		BARRICADE

WASTEWATER NOTES:

1. ALL WASTEWATER LINES SHALL B E SDR-26 PVC.
2. A TRENCH SAFETY PLAN MUST BE SUBMITTED TO THE ENGINEER AND THE CITY CEDAR PARK PRIOR TO BEGINNING TRENCHING ACTIVITIES.
3. ALL PIPES FITTINGS SHALL BE JOINT RESTRAINED.
4. ALL FITTING SHALL HAVE TRUST BLOCKING.
5. ALL VALVE CAPS AND MANHOLES OUTSIDE OF PAVEMENT SHALL BE RAISED AND INDICATED WITH A LOCATED SIGN.
6. EXISTING WATER MAIN SHALL BE TESTED WITH A PRESSURE TEST AND TWO BACTERIAL TESTS. ALL TEST SHALL PASS FOR EXISTING LINE TO REMAIN. IF EITHER TEST FAILS, NEW WATERLINE SHALL BE INSTALLED.
7. ALL FIRE HYDRANTS SHALL MAINTAIN A MINIMUM 3' CLEAR AROUND THE CIRCUMFERENCE AT ALL TIME.
8. CONTRACTOR TO PROVIDE PUBLIC ACCESS TO LOCAL BUSINESS AT ALL TIMES. COORDINATE CONSTRUCTION W/ BUSINESS OWNER 48 HOUR PRIOR TO BEGIN WORK.
9. ANY DAMAGE TO EXISTING SIDEWALK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST, SEE SIDEWALK DETAILS. ALL DISTURBED AREAS SHALL BE RE-VEGETATED AND MAINTAINED BY THE CONTRACTOR TO ENSURE HEALTH GROWTH DURING CONSTRUCTION PERIOD.

WATER NOTES:

1. ALL DOMESTIC WATER LINES SHALL BE SCH-40 PVC.
2. A TRENCH SAFETY PLAN MUST BE SUBMITTED TO THE ENGINEER AND THE CITY OF CEDAR PARK TO BEGINNING TRENCHING ACTIVITIES.
3. ALL PIPES FITTINGS SHALL BE JOINT RESTRAINED.
4. ALL FITTING SHALL HAVE TRUST BLOCKING.
5. ALL VALVE CAPS AND MANHOLES OUTSIDE OF PAVEMENT SHALL BE RAISED AND INDICATED WITH A LOCATED SIGN.
6. EXISTING WATER MAIN SHALL BE TESTED WITH A PRESSURE TEST AND TWO BACTERIAL TESTS. ALL TEST SHALL PASS FOR EXISTING LINE TO REMAIN. IF EITHER TEST FAILS, NEW WATERLINE SHALL BE INSTALLED.
7. ALL FIRE HYDRANTS SHALL MAINTAIN A MINIMUM 3' CLEAR AROUND THE CIRCUMFERENCE AT ALL TIME.
8. CONTRACTOR TO PROVIDE PUBLIC ACCESS TO LOCAL BUSINESS AT ALL TIMES. COORDINATE CONSTRUCTION W/ BUSINESS OWNER 48 HOUR PRIOR TO BEGIN WORK.
9. ANY DAMAGE TO EXISTING SIDEWALK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST, SEE SIDEWALK DETAILS. ALL DISTURBED AREAS SHALL BE RE-VEGETATED AND MAINTAINED BY THE CONTRACTOR TO ENSURE HEALTH GROWTH DURING CONSTRUCTION PERIOD.
10. ALL MATERIALS, METHODS TESTING, AND STANDARDS SHALL COMPLY WITH THE LATEST VERSION OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
11. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORD DRAWINGS AND SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, MATERIALS AND SIZES OF ALL EXISTING UTILITIES SHOWN.
12. CONTRACTOR SHALL NOTIFY ONE-CALL OR OTHER UTILITY LOCATION SERVICES AT LEAST 48 HOURS PRIOR COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
13. CONTRACTOR SHALL COORDINATE UTILITY CONNECTIONS WITH UTILITY SERVICE PROVIDERS PRIOR TO TAPPING EXISTING LINES. COORDINATE REMOVAL OF MAINS TEMPORARILY FROM SERVICE AS NECESSARY.
14. CONTRACTOR SHALL INSTALL MECHANICAL JOINT RESTRAINTS ON ALL JOINTS/FITTINGS AND THRUST BLOCKING ON ALL BENDS IN FIRE LINE.
15. ALL UNDERGROUND FIRE LINE PIPING MUST BE INSTALLED BY LICENSED SPRINKLER CONTRACTOR IN ACCORDANCE WITH NFPA 24.
16. CONTRACTOR IS RESPONSIBLE FOR PREPARING A TRENCH SAFETY PLAN PER CITY, STATE AND FEDERAL REQUIREMENTS. CITY OF AUSTIN SPECIFICATION ITEM 5095 WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.

NOTE:
1. ALL EXISTING UTILITIES SHOWN ON THIS PLAN SET HAS BEEN INSTALLED PER PREVIOUS APPROVED PLANS UNDER PERMIT NUMBER SD-07-00044, DATED MARCH 26, 2008.
2. CONTRACTOR TO VERIFY EXACT LOCATION AND NOTIFY ENGINEER IF ANY DISCREPANCIES.
3. CONTRACTOR REFER TO MEP DRAWINGS FOR CONTINUITY.

SPECIAL EASEMENT NOTE:
*** INDICATES A UTILITY OR PASSAGE EASEMENT PER PLAT AMENDMENT.

SPECIAL NOTE:
1. ANY WORK COMMENCED PRIOR TO THE ISSUANCE OF CITY BUILDING PERMIT WITH PUBLIC WORKS APPROVALS WILL BE AT THE SOLE RISK OF THE CONTRACTOR.
2. THIS SHEET HAS BEEN REVISED. PREVIOUSLY ISSUED SHEETS IS NO LONGER VALID AND MUST BE DESTROYED OR RETURNED TO THE ENGINEER.

PROJECT:

MINYARD
PLUMBING

LOCATION:

1800 N. BELL BLVD.
CEDAR PARK, TX 78613



project team

OWNER:
RICHARD MINYARD
P.O. BOX 1149
CEDAR PARK, TX 78613

CIVIL ENGINEER:
AES Engineering Consultant
Ahmed El Sewify P.E.
2514 PRESERVE TRAIL,
CEDAR PARK, TX 78613
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email: contact@aes-engs.com
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STUDIO RM ARCHITECTURE
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AUSTIN, TX 78753

GEOTECHNICAL ENGINEER
ARIAS
13581 POND SRPINGS RD, SUITE 210
AUSTIN, TEXAS 78729
737-220-0114



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November 23, 2023



Ahmed El Sewify

REVISION	DATE	ISSUE TITLE

DRAWING TITLE:
UTILITY PLAN (WATER
& WASTE WATER)

PROJECT NO: 10-1024	DRAWN & CHECKED BY: MRL AES
DATE: 2023-11-23	SCALE: 1:40
SHEET NUMBER:	

20 of 27

DRAWING PATH - G:\MY DRIVE\AES ENGINEERING\10-1024 MINYARD\CA\UTILITY PLAN (WATER AND WASTE WATER).DWG

Minyard Sons Services
Inspection, Maintenance, Repair and Retrofit Plan-Attachment N

During the first year of operation and after large storms, inspect sand filter system monthly to ensure proper operation and provide maintenance personnel with a feel for the operational characteristics of the filter (Sand bed, PVC pipes and clean outs). After the first year of operation, inspect after every significant rainfall event and as needed based on first years' experience.

Sediment Removal: Remove sediment from the inlet structure, sedimentation chamber and filtration chamber after each rainfall event.

Media Replacement: sand bed shall be cleaned once a year or when the drawdown time exceeds 48 hours. The geotextile wrapping around the PVC pipes should be inspected each time the sand bed is being replaced and should be repaired or replaced if damage or permanent clogging is observed. Debris and Litter Debris and litter will accumulate near the sedimentation basin outlet device and should be removed during regular clean-up operations and inspections. Particular attention should be paid to floating debris that can eventually clog the pipes and valve.

Filter Underdrain: Clean the underdrain piping network to remove any sediment buildup at least every two years, or as needed to maintain the design drawdown time.

Controls: Verify that all controls are functioning correctly at least once per month and after each rainfall event. Inspect any components that are inoperative, i.e.....gates, ladder, fence, pump and pump appurtenances. Should any operational problems be found, repairs or replacement should be completed immediately.

Security Fencing: Check and verify that the BMP facility site is secure at least once per month. Any site found to be insecure should be made secure immediately.

Responsible Party for Maintenance: Minyard Sons Services, Inc, 1800 N. Bell Blvd, Cedar Park

Contact name: Richard Minyard

Telephone Number: 512-721-6307

Signature of Responsible Party:

Date: 11/23/2023

Richard Minyard 11/27/2023

Project Engineer: Ahmed El Seweify, P.E.

Address: 2301 S. Bagdad Rd, Cedar Park, Texas 78613

Phone: 512-785-9034

Date: 11-23-2023

Minyard Sons Services

Measures for Minimizing Surface Stream Contamination-Attachment P

The measures that will be used to avoid or minimize surface stream contamination due to the changes in the way the water enters a stream as a result of the construction and development will be as outlined below:

I- During Construction

A) Erosion and Sedimentation:

Silt fences will be installed prior to construction at the downstream edge of disturbed areas where there will be shallow sheet flow. A stabilized construction entrance pad will be installed prior to construction to control tracking off site. Disturbed areas will be restored as soon as practicable during construction. Temporary erosion and sedimentation controls will be removed only after all disturbed areas have been restored.

B) Stabilization Practices:

Disturbed areas including spoils disposal sites where construction activity temporarily ceases for at least 21 days will be stabilized with seeding and mulching by the 14th day after the last disturbance. Seeding shall be as follows:

1. Grasses:

Unlulled Bermuda and Winter Rye from September 15 to March
Hulled Bermuda from March 2 to September 14.

2. Application:

Broadcast seeding or hydro mulch

3. Fertilization:

Fertilization shall have an analysis of 15-15-15 and shall be applied at the rate of 1.5 pounds per 1,000 square feet.

C) Other Pollutant Sources:

There will be no source of pollutants other than those generated by the construction of this project and the water quality/detention pond associated with the site.

D) Dissipation devices:

Rock riprap and rock berm shall be installed at the end of the outflow structure for pond.

II- After Construction

E) See Attachment N- Inspection, Maintenance and repair.

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.

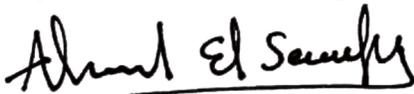
Signature

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: Ahmed El Seweify

Date: 11/23/2023

Signature of Customer/Agent:



Regulated Entity Name: AES Engineering Consultant

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: S. Brushy Creek

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.

Minyard Sons Services
Spill Response Action Attachment A

Major Spills:

Only trained personnel should ever approach a spill. Containment, clean up, or neutralization of the hazardous material be accomplished by individuals or organizations familiar with or trained in such activities. The following steps should be considered general guidelines and may not apply for all circumstances.

1. Notify responsible site contact for spill management and control.
2. Survey the scene and assess extent of spill, determine the existence or possibility of runoff, determine if any dead animals are near, evaluate the distressed nature of surrounding vegetation. Evaluate any markings on containers. Assess the physical characteristics of the material (color, solid, liquid, powder, or granules).
3. Restrict access to the spill site. Keep the public away from the hazard. Provide traffic control, as needed.
4. Notify supervisor by radio or telephone.
5. Supervisor should notify local fire department, Department of Public Safety, and district hazardous materials coordinator. Supervisor should ensure that field personnel only conduct traffic control from a safe distance from the spill.
6. Determine if a reportable discharge or spill has occurred and if so, the district hazardous materials coordinator should ensure TCEQ has been notified of the spill or release as soon as possible but not later than 24 hours after the discovery of the spill or discharge. Provide the following information, if possible:
 - the name, address, and phone number of the person making the report.
 - the date, time, and location of the spill or discharge.
 - a specific description of the hazardous substance discharged or spilled or an estimate of the quantity discharged or spilled.
 - the duration of the incident.
 - the name of the surface water affected or threatened by the discharge or spill.
 - the source of the discharge or spill.
 - a description of the extent of actual or potential harmful impact to the environment and an identification of any environmentally sensitive areas or natural resources at risk.
 - the names, addresses, and telephone numbers of the responsible person and the contact person at the location of the discharge or spill.
 - a description of any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill any known or anticipated health risks
 - the identity of any governmental representatives, including local authorities or third parties, responding to the discharge or spill
 - any other information that may be significant to the response action.

In addition to the good housekeeping and material management practices discussed above, the following practices will be followed for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.

- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and material will include, but not be limited to, brooms, dustpans, mops, rags, gloves, goggles, sand, sawdust, and plastic and metal trash containers specifically for this purpose.

Minor Spills:

The responsible site contact person shall designate an area as spill storage location prepared with sand and containment device such as silt fence to store spilled material and removal to a facility for further handling. Minor spills are defined as minor equipment leakage of oil and gasoline.

Minyard Sons Services
Potential Source of Contamination-Attachment B

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (that could be discharged if exposed to stormwater)	Location on Site
Grading, Excavation	Oil, Gasoline, grease, hydraulic fluid, rock, gravel, sand and soil	Entire site
Pavement	Concrete & Conc. Product, reinforcement bars	Entire site
Building	Stucco, paint	At Building
Landscaping	Fertilizer, pesticide	All landscape areas
Utility Work	PVC pipe	Site, Front building

Minyard Sons Services**Sequence of Major Activities- Attachment C**

Order of work shall be as follows:

- 1- Installation of the exterior silt fence along property line downstream of site.
- 2- Installation of interior erosion control measures such as: sediment trap, concrete wash out area, storage and staging areas as shown on plan (Erosion Control Sheet).
- 3- Construct underground utilities.
- 4- Construct foundation and buildings.
- 5- Construct concrete pavement and striping.
- 6- Install landscaping
- 7- Construct permanent water quality pond.

Minyard Sons Services
Temporary BMP and Measures-Attachment D

These TBMP's shall be considered and followed:

Temporary silt fence, spoils area, construction entrance is installed and designated to protect natural streams, sensitive features, surface and ground water. These protection measures will be installed prior to start of any construction and shall be inspected after each rain and every week, any damaged areas shall be repaired or replaced if necessary. Remove siltation as required when siltation reaches ½ of its design depth or one foot. Inspect after each rain or every week.

When necessary, wheels must be cleaned to remove sediment prior to entrance onto public right of way. When washing is required, it shall be done on an area stabilized with crushed stone which drains into an approved sediment basin/trap. All sediment shall be prevented from entering any storm drain, ditch or watercourse using approved method.

A sediment trap will be constructed and inspected after each rainfall or every six (6) months.

Designate a spoil area (shown on plan) for handling waste, inspect and secure the silt fence to prevent pollution spills. This area will be graded toward the sediment trap for maximum pollution and sedimentation prevention.

Contractor's staging area and construction material is designated on plans. This area is enclosed with silt fence and inspected regularly. This area will be graded toward the sediment trap for maximum pollution and sedimentation prevention.

Designated washout area will also be enclosed with silt fence. This area will be graded toward the sediment trap for maximum pollution and sedimentation prevention.

Important factor in this area is to transport contaminated soil due to fuel and oil to spoil area frequently and as required by the city/TCEQ. This area is designated on plan and enclosed with silt fence.

All equipment will be washed in the designated area as shown on plan.

Silt fences will be inspected and properly maintained as required.

Gravel, stone, reinforcement bars for concrete foundation and retaining wall, sand, rock, construction equipment and/or any mechanical equipment will be stored on site.

A silt fence area adjacent to material storage area is set up for washout area where concrete mix trucks, will be washed and handled.

All equipment/vehicle fueling and discharge are handled within this area. In event of spills, contractor shall have sand and/or hay available on site to apply to the contaminated areas in order to contain and clean up possible spills. Contaminated sand shall be transported to the spoil area and disposed of off-site to a disposal site by the contractor.

Measures taken to prevent pollution: A construction exit/entrance will be installed to reduce tracking dirt on the pavement after exiting the construction area. Silt fences at critical locations are installed to reduce run-off velocity and retain sediments. All drainage inlets or culverts affected by this project's site activities shall be covered with silt fence, hay bale or rock berm.

- a. Sensitive feature(s): During excavation or construction the Contractor shall stop work at the location where the sensitive feature is discovered and notify TCEQ and the Engineer preparing this report, for further inspection and evaluation to apply an appropriate BMP measure.

Minyard Sons Services
Request to Seal a Feature-Attachment E

If required per Attachment D, a Request will be filed.

Minyard Sons Services

Structural Practices- Attachment F

Silt Fence will be installed as shown on the plan, silt fence will be regularly checked and maintained per attachment D.

Minyard Sons Services

Inspection and maintenance for BMP's- Attachment I

I) Maintenance Procedures

The Contractor will be responsible for ensuring the maintenance of the erosion and sedimentation controls. Repairs will be made to damaged areas as soon as practicable after damage is discovered, but no later than seven (7) days after the inspection. Built-up sediment will be removed when the depth reached six inches.

Temporary and permanent seeding shall be irrigated or sprinkled in a manner that will not erode the topsoil but will sufficiently soak the soil to a depth of six inches. Irrigation shall occur at 10-day intervals during the first two months.

Rainfall of $1/2$ inch or more shall postpone the watering schedule by one week.

II) Inspection Procedures

The Contractor will inspect the control measures weekly and within 24 hours after rainfall events on $1/2$ inch or more.

The Contractor will also be responsible for inspections, maintenance, and repair activities as well as preparing the inspection and maintenance forms. Major observations to be made during inspections include:

- Locations of discharges of sediment or other pollutants from the site.
- Locations of BMP's that need maintenance.
- Locations of BMP's that are not performing, failing to operate, or were inadequate.
- Locations where additional BMP's are needed.

III) Additional Maintenance Procedure

Keep necessary equipment's in working order ready for sediment/pollutant cleanup which may possibly escape the construction site and onto street, drainage inlets or streams.

All construction debris, litters shall be picked up and area cleaned on daily basis. All construction material and/or chemicals shall be stored in designate areas as shown on plan. Inspect all equipment on daily bases for potential leaks and repair as required.

Minyard Sons Services**Inspection and maintenance for BMP's- Attachment I**

Inspect all seeded areas for failures and reseed within planting season if necessary. (See below for more information).

Inspect on monthly basis. Maintain width and length and if required add rock to keep required thickness.

In event of spills, contractor shall have sand and/or hay available on site to apply to the contaminated areas in order to contain and clean up possible spills. Contaminated sand shall be transported to the spoil area and disposed of offsite to a disposal site by the contractor.

Minyard Sons Services**Schedule of Interim and Permanent Soil Stabilization Practices- Attachment J**

Disturbed areas including spoils disposal sites where construction activity temporarily ceases for at least 21 days will be stabilized with seeding and mulching by the 14th day after the last disturbance. Seeding shall be as follows:

1. Grasses:

Un-hulled Bermuda and Winter Rye from September 15 to March Hulled Bermuda from March 2 to September 14.

4. Application:

Broadcast seeding or hydro mulch

5. Fertilization:

Fertilization shall have an analysis of 15-15-15 and shall be applied at the rate of 1.5 pounds per 1,000 square feet.

6. Mulch:

Mulch type used shall be hay, straw, or mulch applied at a rate of 45 pounds per 1,000 square feet.

7. Sprinkling:

The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at 10-day intervals during the first two months.

Rainfall occurrences of $\frac{1}{2}$ inch or more shall postpone the watering schedule for one week.

RECORD KEEPING:

Records will be retained for a minimum period of at least 3 years after the permit is terminated.

- The following is a list of records which will be kept at project site available for inspectors to review:
- Dates of grading, construction activity, and stabilization
- A copy of the construction general permit.
- The signed and certified NOI form or permit application form.
- A copy of the letter from EPA or/the state notifying their receipt of complete NOI/application.
- Inspection reports (attach)
- Records relating to endangered species and historic preservation, if required.

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Minyard Sons Services Inc.

Regulated Entity Location: 1800 N. Bell Blvd, Cedar Park Texas 78613

Name of Customer: Richard Minyard

Contact Person: Richard Minyard

Phone: 512-721-6307

Customer Reference Number (if issued): CN Regulated Entity Reference

Number (if issued): RN **Austin Regional Office (3373)**

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	6.361 Acres	\$ 5,000.00
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: Abund El Saadly

Date: 11/23/2023

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<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

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

I Richard Minyard
Print Name

Owner Minyard Investments, LP./ President
Title - Owner/President/Other

of Minyard Sons Services Inc. / Minyard Investments, L.P.
Corporation/Partnership/Entity Name

have authorized Ahmed El Seweify
Print Name of Agent/Engineer

of AES Engineering Consultant
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

11/27/2023
Date

THE STATE OF Texas §

County of WILLIAMSON §

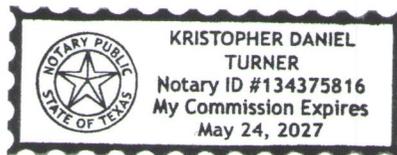
BEFORE ME, the undersigned authority, on this day personally appeared Richard D. Myrad known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 27 day of November, 2023.

[Signature]
NOTARY PUBLIC

Kristopher D. Turner
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 24-May-2027





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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name <i>(Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)</i>		<input type="checkbox"/> Change in Regulated Entity Ownership	
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>			
6. Customer Legal Name <i>(If an individual, print last name first: eg: Doe, John)</i>		<i>If new Customer, enter previous Customer below:</i>	
Minyard Sons Services Inc.			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number <i>(if applicable)</i>
801044573	32038222595	20-5865794	
11. Type of Customer:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role <i>(Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:</i>			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input checked="" type="checkbox"/> Owner & Operator		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
15. Mailing Address:	1800 N. Bell Blvd.		
	City	Cedar Park,	State TX ZIP 78613 ZIP + 4
16. Country Mailing Information <i>(if outside USA)</i>		17. E-Mail Address <i>(if applicable)</i>	
		Contact@aes-engs.com	
18. Telephone Number	19. Extension or Code	20. Fax Number <i>(if applicable)</i>	
(512) 721-6307		() -	

SECTION III: Regulated Entity Information

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

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	1800 N. Bell Blvd							
	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4	
24. County	Travis							
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:	30.531829			28. Longitude (W) In Decimal:	-97.832667			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
30	31	54.5844 N	97	49	57.6012w			
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)			
3334	1514		332311					
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>								
industrial warehouse								
34. Mailing Address:	1800 N. Bell Blvd							
	City	Cedar Park	State	TX	ZIP	78613	ZIP + 4	
35. E-Mail Address:	contact@aes-engs.com							
36. Telephone Number			37. Extension or Code		38. Fax Number <i>(if applicable)</i>			
(512) 785-9034			() -		() -			

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

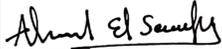
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source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

SECTION IV: Preparer Information

40. Name:	Ahmed El Seweify	41. Title:	Professional Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 785-9034		() -	

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:	AES Engineering Consultant	Job Title:	Professional Engineer
Name <i>(In Print)</i> :	Ahmed El Seweify	Phone:	(512) 785-9034
Signature:		Date:	11/23/2023