

### LONE STAR LANDING PHASE 1 CONTRIBUTING ZONE PLAN

Submitted to:

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

Submitted by / Agent:

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

Owner / Applicant:

LONE STAR LANDING TEXAS, LLC 3320 PRENTISS LANE LEANDER, TX 78641 Voice: 512-761-8025

Attn: Mr. Mallik Gillakatulla



2/17/2024

#### **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. <u>Edwards Aquifer applications</u> 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: <a href="http://www.tceq.texas.gov/field/eapp">http://www.tceq.texas.gov/field/eapp</a>.
- 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 N Phase 1	ame: Lone S	tar La	nding	3	2. R	egulat	ed Entity No.:	
3. Customer Name: T LLC	exas Lone S	tar La	nding	,	4. Cı	ıstom	er No.:	
5. Project Type: (Please circle/check one)	New	Modif	icatior	1	Exter	nsion	Exception	
6. Plan Type: (Please circle/check one)	WPAP CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-r	esiden	tial		8. Sit	te (acres):	15.366 Ac
9. Application Fee:	\$4,000	10. P	ermai	nent l	BMP(	s):	<batch detenti<="" th=""><th>on</th></batch>	on
11. SCS (Linear Ft.):	N/A	12. A	ST/US	ST (N	o. Tar	ıks):	N/A	
13. County:	Williamson	14. W	aters	heds	1		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%2oGWCD%2omap.pdf

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

	Austin 1	Region	
County:	Hays	Travis	Williamson
Original (1 req.)	_	_	_
Region (1 req.)	_	_	_
County(ies)	_	_	_
Groundwater Conservation District(s)	Edwards Aquifer AuthorityBarton Springs/ Edwards AquiferHays TrinityPlum Creek	Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	AustinBudaDripping SpringsKyleMountain CitySan MarcosWimberleyWoodcreek	AustinBee CavePflugervilleRollingwoodRound RockSunset ValleyWest Lake Hills	AustinCedar ParkFlorenceGeorgetownJerrell _X_LeanderLiberty HillPflugervilleRound Rock

	Sa	an Antonio Region			
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	_	_			
Region (1 req.)					
County(ies)			_		
Groundwater Conservation District(s)	Edwards Aquifer Authority Trinity-Glen Rose	Edwards Aquifer Authority	Kinney	EAA Medina	EAA Uvalde
City(ies) Jurisdiction	Castle HillsFair Oaks RanchHelotesHill Country VillageHollywood ParkSan Antonio (SAWS)Shavano Park	Bulverde Fair Oaks Ranch Garden Ridge New Braunfels Schertz	NA	San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the app application is hereby submitted to TCEQ for administr	
Gary Eli Jones, P.E.	
Print Name of Cystomer/Authorized Agent	
Sylfin	2/17/2024
Signature of Customer/Authorized Agent	Date

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):	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):	Check: Signed (Y/N):	
Core Data Form Incomplete Nos.:	Less than 90 days old (Y/N):	

#### **Contributing Zone Plan Application**

**Texas Commission on Environmental Quality** 

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

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

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

#### Signature

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

Print Name of Customer/Agent: Gary Eli Jones, P.E.

Date: <u>2/17/2024</u>

Signature of Customer/Agent:

Regulated Entity Name: Lone Star Landing Phase 1

#### **Project Information**

1. County: Williamson

2. Stream Basin: Brushy Creek

3. Groundwater Conservation District (if applicable): N/A

4. Customer (Applicant):

Contact Person: Mallik Gilakatulla
Entity: Lone Star Landing Texas, LLC
Mailing Address: 3220 Prentiss Lane

City, State: <u>Leander, TX</u> Zip: <u>78641</u> Telephone: 512-761-8025 Fax: N/A

Email Address: mallik246@gmail.com

5.	Agent/Representative (If any):	
	Contact Person: Gary Eli Jones, P.E.  Entity: Eli Engineeing, PLLC  Mailing Address: 700 Theresa Cove  City, State: Cedar Park, TX  Telephone: 512-658-8095  Email Address: gejtexas@gmail.com	
6.	Project Location:	
	<ul> <li>☐ The project site is located inside the city limits of <u>Leander</u>.</li> <li>☐ The project site is located outside the city limits but inside the jurisdiction) of</li> <li>☐ The project site is not located within any city's limits or ETJ.</li> </ul>	e ETJ (extra-territorial
7.	The location of the project site is described below. Sufficient of provided so that the TCEQ's Regional staff can easily locate the boundaries for a field investigation.	•
	800 CR 177, Leander, TX 78641	
8.	Attachment A - Road Map. A road map showing directions to project site is attached. The map clearly shows the boundary	
9.	Attachment B - USGS Quadrangle Map. A copy of the official Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) c	
	<ul><li>✓ Project site boundaries.</li><li>✓ USGS Quadrangle Name(s).</li></ul>	
10.	D. Attachment C - Project Narrative. A detailed narrative description is attached. The project description is consistent thro contains, at a minimum, the following details:	
	<ul> <li>✓ Area of the site</li> <li>✓ Offsite areas</li> <li>✓ Impervious cover</li> <li>✓ Permanent BMP(s)</li> <li>✓ Proposed site use</li> <li>✓ Site history</li> <li>✓ Previous development</li> <li>✓ Area(s) to be demolished</li> </ul>	
11.	1. Existing project site conditions are noted below:	
	<ul><li>Existing commercial site</li><li>Existing industrial site</li><li>Existing residential site</li></ul>	

<ul><li>Existing paved and/or unpaved roads</li><li>Undeveloped (Cleared)</li><li>Undeveloped (Undisturbed/Not cleared)</li><li>Other:</li></ul>	
12. The type of project is:	
Residential: # of Lots: <u>48</u> Residential: # of Living Unit Equivalents:	
Commercial Industrial Other:	
13. Total project area (size of site): 15.366 Acres	

14. Estimated projected population: 48 Single Family homes

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

**Table 1 - Impervious Cover** 

Total disturbed area: 15.366 Acres

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	168000	÷ 43,560 =	3.86
Parking		÷ 43,560 =	
Other paved surfaces	91960	÷ 43,560 =	2.11
Total Impervious Cover	259,960	÷ 43,560 =	5.97

#### Total Impervious Cover $5.97 \div$ Total Acreage $15.366 \times 100 = 39\%$ 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.

$^{\wedge}$	B I / A
ΙXΙ	NI / A
$\vee$ $\vee$	11/

18.	Type of project:
	<ul> <li>TXDOT road project.</li> <li>County road or roads built to county specifications.</li> <li>City thoroughfare or roads to be dedicated to a municipality.</li> <li>Street or road providing access to private driveways.</li> </ul>
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. $L \times W = _{} Ft^2 \div 43,560 Ft^2/Acre = acres.$
21.	Pavement Area:
	Length of pavement area: feet. Width of pavement area: feet. L x W = Ft $^2$ ÷ 43,560 Ft $^2$ /Acre = acres. Pavement area acres ÷ R.O.W. area acres x 100 = % 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.
St	ormwater 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 runof coefficient of the site for both pre-construction and post-construction conditions.
W	astewater to be generated by the Proposed Project
25.	<ul> <li>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.</li> <li>N/A</li> </ul>

On-Site Sewage	Facility (OSSF/Septic Ta	nk):	
will be used licensing aut the land is so the requiren relating to C  Each lot in the size. The sys	to treat and dispose of the thority's (authorized age uitable for the use of prinents for on-site sewage Pacilities on sproject/developments tem will be designed by	the wastewater from thi ent) written approval is a vate sewage facilities ar e facilities as specified ur	attached. It states that and will meet or exceed ander 30 TAC Chapter 285 (43,560 square feet) in engineer or registered
<del></del>			<u>eander</u> (name) Treatment
⊠ Existing. ☐ Proposed.			
□ N/A			
<u> </u>	oveground Sto	rage Tanks/AST	Tc) > 500
Permanent About Ab	- 33 if this project inclu	rage Tanks(AS) des the installation of A	-
Permanent Abe Gallons Complete questions 27 greater than or equal t	- 33 if this project inclu to 500 gallons.		-
Permanent About Ab	- 33 if this project inclu to 500 gallons.		-
Permanent Abe Gallons Complete questions 27 greater than or equal t	e stored:	des the installation of A	-
Permanent About Gallons Complete questions 27 greater than or equal to N/A  27. Tanks and substance	e stored:		-
Permanent About Gallons Complete questions 27 greater than or equal to N/A 27. Tanks and substance Table 2 - Tanks and	e stored:  Substance Storage	des the installation of A  Substance to be	ST(s) with volume(s)
Permanent Abe Gallons Complete questions 27 greater than or equal to N/A 27. Tanks and substance Table 2 - Tanks and AST Number	e stored:  Substance Storage	des the installation of A  Substance to be	ST(s) with volume(s)
Permanent Abe Gallons Complete questions 27 greater than or equal to N/A 27. Tanks and substance Table 2 - Tanks and  AST Number	e stored:  Substance Storage	des the installation of A  Substance to be	ST(s) with volume(s)
Permanent Abe Gallons Complete questions 27 greater than or equal to N/A  27. Tanks and substance Table 2 - Tanks and  AST Number  1 2	e stored:  Substance Storage	des the installation of A  Substance to be	ST(s) with volume(s)
Permanent Abe Gallons Complete questions 27 greater than or equal to N/A  27. Tanks and substance Table 2 - Tanks and  AST Number  1 2 3	e stored:  Substance Storage	des the installation of A  Substance to be	ST(s) with volume(s)

•	stem, the containm umulative storage ca		•	nd one-half (1 1/2)
for providin	t <b>G - Alternative Sec</b> g secondary contain for the Edwards Aqu	nment are proposed		
	ons and capacity of c		ure(s):	
Table 3 - Second <i>Length (L)(Ft.)</i>	ary Containment Width(W)(Ft.)		L x W x H = (Ft3)	Gallons
Length (L)(Ft.)	vviatii(vv)(Ft.)	Height (H)(Ft.)	LX W X H = (Ft3)	Guilons
			_	otal: Gallons
Some of the structure.  The piping v The piping v The contain substance(s	oses, and dispenser e piping to dispenser will be aboveground will be underground ment area must be b) being stored. The	rs or equipment wil constructed of and proposed containn	l extend outside the in a material impernent structure will be	e containment vious to the be constructed of:
containmen	t H - AST Containment of structure is attach dimensions (length, drainage to a point	ed that shows the to width, depth and w	following: wall and floor thickr	ness).
Tanks cle	early labeled learly labeled er clearly labeled		ooneedien er any ep	age.
storage tan	ust be directed to a k facilities must be r ours of the spill.	•		
	vent of a spill, any s 4 hours of the spill	<del>-</del>		inment structure

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
tems 34 - 46 must be included on the Site Plan.
34. $\square$ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = <u>50</u> '.
35. 100-year floodplain boundaries:
<ul> <li>Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.</li> <li>No part of the project site is located within the 100-year floodplain.</li> <li>The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM Map / Map Service Center / 48491C0460F Eff. 12/20/2019.</li> </ul>
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. $igotimes$ A drainage plan showing all paths of drainage from the site to surface streams.
38. $igotimes$ The drainage patterns and approximate slopes anticipated after major grading activities.
39. $igotimes$ Areas of soil disturbance and areas which will not be disturbed.
40. \(\simega\) Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. $oxed{\boxtimes}$ Locations where soil stabilization practices are expected to occur.
42. Surface waters (including wetlands).
⊠ N/A
13. Locations where stormwater discharges to surface water.
There will be no discharges to surface water.
14. 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.
Pe	ermanent Best Management Practices (BMPs)
Pro	actices 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.
	<ul> <li>The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.</li> <li>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:</li> </ul>
	□ N/A
49.	<ul> <li>✓ 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.</li> <li>✓ N/A</li> </ul>
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.
	<ul> <li>☑ The site will be used for low density single-family residential development and has 20% or less impervious cover.</li> <li>☑ The site will be used for low density single-family residential development but has more than 20% impervious cover.</li> <li>☑ The site will not be used for low density single-family residential development.</li> </ul>

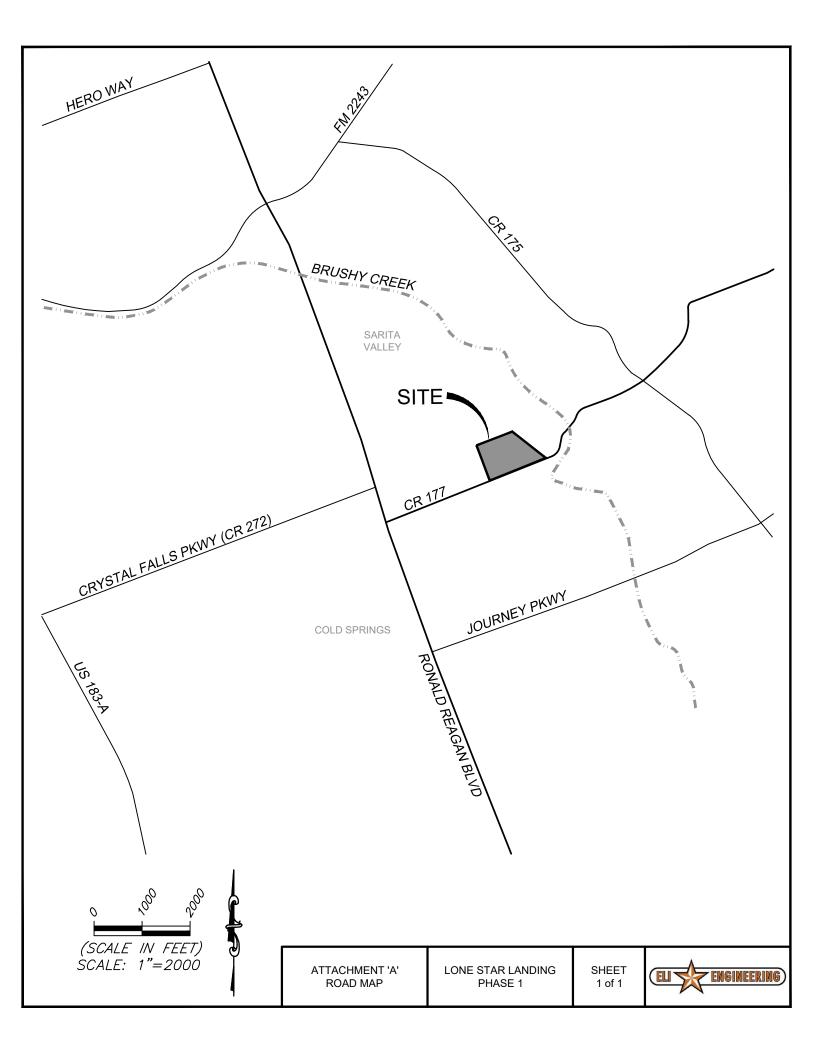
f i r i t	The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a 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.
	<ul> <li>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.</li> <li>□ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.</li> <li>□ The site will not be used for multi-family residential developments, schools, or small business sites.</li> </ul>
52. [	Attachment J - BMPs for Upgradient Stormwater.
	<ul> <li>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.</li> <li>No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.</li> <li>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.</li> </ul>
53. [	X Attachment K - BMPs for On-site Stormwater.
	<ul> <li>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.</li> <li>Permanent BMPs or measures are not required to prevent pollution of surface wate or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.</li> </ul>
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

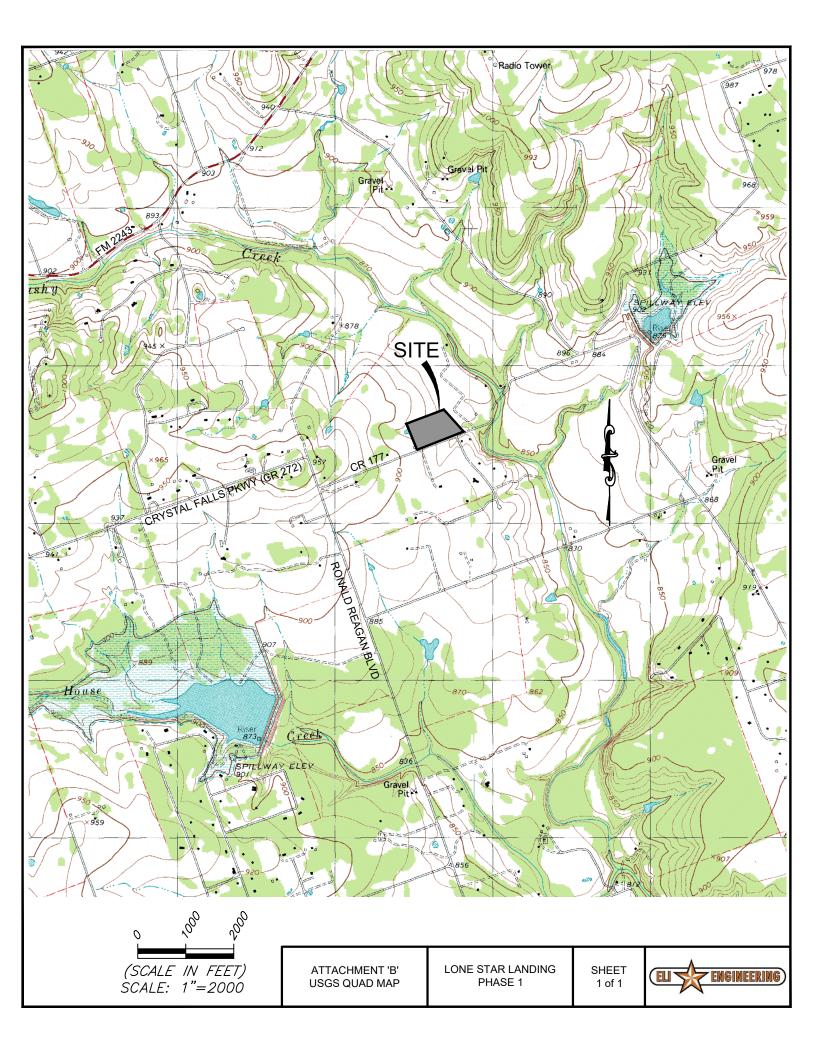
	attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.
	N/A
56. 🔀	Attachment N - Inspection, Maintenance, Repair and Retrofit Plan. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, 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
	<ul> <li>measures</li> <li>Signed by the owner or responsible party</li> <li>Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.</li> <li>✓ Contains a discussion of record keeping procedures</li> </ul>
	N/A
57. 🗌	<b>Attachment O - Pilot-Scale Field Testing Plan</b> . 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.
$\boxtimes$	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
-	consibility for Maintenance of Permanent BMPs and sures 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**

51. X	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.
52. <u>×</u>	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.
53.	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.







Firm # 17877

April 8, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing Phase 1 Subdivision

Contributing Zone Permit Attachment C-Project Narrative

To Whom It May Concern:

The application for the Contributing Zone Permit for this project located on the north side of CR 177 in Leander, Tx, west and upstream of Brushy Creek. The project includes 48 single family lots that are a minimum of 9000 SF each. The project is in the city limits of Leander, TX. There is 15.366 acres included in the subdivision consisting of the following:

Description	Lots	<u> Area (Ac)</u>
Single Family Lots (9000 SF Min)	48	10.58
Open Space / HOA Lots	4	2.11
ROW		2.68
Totals	52	15.37

Impervious cover for the entire project is summarized in the chart below.

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	168000	÷ 43,560 =	3.86
Parking		÷ 43,560 =	
Other paved surfaces	91960	÷ 43,560 =	2.11
Total Impervious Cover	259,960	÷ 43,560 =	5.97

The project has an upgradient drainage area of 36.5 acres that is conveyed through the property and bypassing the proposed batch detention pond. There is also an onsite area of 1.31 acres on the eastern boundary that will be released untreated to the adjacent property. This area will be the back side of the houses that fall away from the collection system in the roadway. The impervious cover accounted for in this area is compensated for in the proposed pond. There is a proposed stormwater collection system in the subdivision that will collect the site drainage and convey to a proposed batch detention pond in the SE corner of the property. The outlet for the pond will discharge just upstream of the FEMA Floodplain that is part of the Brushy Creek watershed. The project

includes water and wastewater lines to serve the subdivision which will all be dedicated to the City of Leander for maintenance. Temporary erosion control is included in the plan during construction. The SWPPP will be included in the construction phase with the required inspections until permanent vegetation is established. The project requires a total of 27,908 CF of water quality storage for the proposed Batch Detention pond. Calculations for the project are included in this report as well as the full construction plans.

On Sheet 24 of 52 in the Construction Plan set, we have included an exhibit showing the initial Phase 1 limits of construction to be 4.48 acres. The streets, utilities, batch detention pond will all be construction initially. The lot grading with be done with the home construction after the pond is constructed and in place. Therefore a settling pond is not required for the project.

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

Sincerely,

Gary Eli Jones, P.E.

**Authorized Agent** 



February 17, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: **Lone Star Landing Phase 1** 

**Contributing Zone Permit** 

Attachment D-Factors Affecting Surface Water Quality

To Whom It May Concern:

Factors which could affect the quality of surface water and groundwater are the parking and use of motor vehicles on the streets and homes on the site. This includes the emission of certain hydrocarbon based substances as well as the tracking of silt. Also, the maintenance of irrigated areas could affect the quality of surface and groundwater through runoff of chemical fertilizers or pesticides.

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

Sincerely,

Gary Eli Jones, P.E.

**Authorized Agent** 





Firm # 17877

February 18, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Ranch Phase 1
Contributing Zone Permit
Attachment E-Volume and Character of Stormwater

To Whom It May Concern:

The 36.5 acre offsite area will be conveyed through the property via a series of box culverts and channels. The volume of offsite conveyance which bypasses the proposed Batch Detention pond is summarized as follows:

	EXISTING				GRASS				
	Drainage Area	Total Area	Total Area	Area Impervious	Area Impervious	Area Impervious	Area Grass	Area Grass	Area Grass
ı	Alea	(Ac)	(sf)	(sf)	(Ac)	(%)	(sf)	(Ac)	(%)
-	OFFSITE	36.48	1,589,069	0	0.00	0.0%	1,589,069	36.48	100.0%

		Existing Conditions						
	2уг	10yr	25уг	100yr				
OFFSITE	64.28	116.83	155.92	225.89				

The onsite drainage conveyed to the batch pond will include 13.22 acres and the bypass area is 2.16 acres. The existing and proposed summary of the onsite drainage is summarized below:

Drainage Basir	Characteristic	ss - Existing	Conditions					
Drainage Area	Area (Acres)	I.C. (%)	Curve No.	Tc (min)	Q2 (cfs)	Q10 (cfs)	Q25 (cfs)	Q100 (cfs)
EX DA-1	15.37	0.0%	65	16.07	18.04	49.55	74.00	119.20
Drainage Basin	Area	· ·		Tc	Q2	Q10	Q25	Q100
Drainage Area	(Acres)	I.C. (%)	Curve No.			(cfs)		
DD DA 4		40.000/	e.e	(min)	(cfs)		(cfs)	(cfs)
PR DA-1	13.22	43.68%	65	5.00	42.28	76.95	102.50	148.32
PR DA 2	2.15	9.35%	65	5.00	4.85	11.60	16.70	26.14
		ANALYSIS POINT						

The proposed pond mitigates peak flow rates for the 2, 10, 25 and 100 year storm events. As required, the batch detention system will detain the water quality volume for a 12-hour period from when rain is detected before the valve is opened to release the remaining storm water in the pond within 48 hours. The proposed 6-inch line drains the 28,000 CF of WQ volume in just over 5 hours (5.34 calculated).

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

Gary Eli Jones, P.E. Authorized Agent



February 18, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing Phase 1
Contributing Zone Permit
Attachment J-BMPs for Upgradient Stormwater

#### To Whom It May Concern:

The drainage areas upstream of the project will be conveyed through the property via a series of box culverts and channels to the SE corner of the property just upstream of the Brushy Creek floodplain. The upstream area draining through the property is 36.5 acres which results in peak flow rates of 156 cfs for the 25 year storm and 226 cfs for the 100 year storm. There are no BMP's proposed for the upstream drainage area. The entire area will bypass the proposed batch detention pond.

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

Gary Eli Jones, P.E. Authorized Agent



Firm # 17877

February 18, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing Phase 1
Contributing Zone Permit
Attachment K-BMPs for On-site Stormwater

#### To Whom It May Concern:

The proposed BMP for this project is a batch detention pond in the lower southeast corner of the property just upstream of the FEMA 100 year floodplain. The total project area is 15.37 acres with 5.97 acres of impervious cover. The impervious cover calculations are shown below for reference. Per RG-348, 3500 SF of impervious cover per lot less than 10,000 SF was used for the single family lots.

				TOTAL
				IC
48 SF Lots<10,00	00 SF	3500	168000	
Streets		2420	72600	
Sidewalks		2420	19360	
			259960	5.97
BYPASS IC C	ALCS			TOTAL
LOT 8,BLK A	50%	3500	1750	
Lot 8, Blk D	25%	3500	875	
Lot 9, Blk D	50%	3500	1750	
Lot 10, Blk D	50%	3500	1750	
Lot 11, Blk D	50%	3500	1750	
Lot 12, Blk D	75%	3500	2625	
Total IC Bypass:			10500	0.24
Total lo bypass.				

The project also has a 2.15 acre drainage area that will drain to the eastern property line and bypass the BMP. This is basically the back of the lots. The front of the lot will be graded to the street. The impervious cover calculations for the bypass area is shown above. Although there is some benefit the back yards will provide via vegetative buffer, it is hard to predict what homeowners will do, therefore, the bypass area is being compensated for in the batch detention pond. The total drainage area to the batch detention pond is 13.22 acres with 5,73 acres of impervious cover. The entire 5196 lbs of TSS removal calculated for the project is used as the Desired Lm for the pond volume calculations.

The total capture volume required for the BMP is 27,906 CF of storage. The proposed pond provides 28,000 CF of storage. Calculations for reference are attached and included in the Construction Plan set.

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

2/18/2024

Gary Eli Jones, P.E. Authorized Agent



#### TSS Removal Calculations 04-20-2009

**Project Name: Lone Star Landing** Date Prepared: 12/31/2023

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

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

Characters shown in red are data entry fields

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

1. The Required Load Reduction for the total project:

Calculations from RG-348

Pages 3-27 to 3-30

Page 3-29 Equation 3.3: L<sub>M</sub> = 27.2(A<sub>N</sub> x P)

where:

 $L_{\text{M TOTAL PROJECT}} = \text{Required TSS removal resulting from the proposed development} = 80\% \text{ of increased load} \\ A_{\text{N}} = \text{Net increase in impervious area for the project}$ 

P = Average annual precipitation, inches

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

County =	Williamson	
Total project area included in plan *=	15.37	acres
Predevelopment impervious area within the limits of the plan * =	0.00	acres
Total post-development impervious area within the limits of the plan* =	5.97	acres
Total post-development impervious cover fraction * =	0.39	1
P =	32	inches
		_

 $L_{M \text{ TOTAL PROJECT}} =$ 

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

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

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

Drainage Basin/Outfall Area No. =	1	"PR DA-1"
Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area =	13.22 0.00	acres acres
Post-development impervious area within drainage basin/outfall area =	5.73	acres
Post-development impervious fraction within drainage basin/outfall area =	0.43	
L <sub>M THIS BASIN</sub> =	4987	lbs.

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

Proposed BMP =	<b>Batch Detentio</b>	n
Removal efficiency =	91	percen

IC CALCULATIONS FYI

			TOTAL
			IC
48 SF Lots<10,000 SF	3500	168000	
Streets	2420	72600	
Sidewalks	2420	19360	
		259960	5.97

BYPASS IC CA	ALCS		TOT	AL
LOT 8,BLK A	50%	3500	1750	
Lot 8, Blk D	25%	3500	875	
Lot 9, Blk D	50%	3500	1750	
Lot 10, Blk D	50%	3500	1750	
Lot 11, Blk D	50%	3500	1750	
Lot 12, Blk D	75%	3500	2625	
Total IC Bypass:			10500	0.24
Total Area Bypass				2.15

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

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

RG-348 Page 3-33 Equation 3.7:  $L_R = (BMP \ efficiency) \times P \times (A_1 \times 34.6 + A_P \times 0.54)$ 

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

 $A_I$  = Impervious area proposed in the BMP catchment area  $A_P$  = Pervious area remaining in the BMP catchment area

 $L_{\rm R}$  = TSS Load removed from this catchment area by the proposed BMP 13.22 A<sub>1</sub> = 5.73 acres

7.49 acres lbs

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

Desired LM THIS BASIN = 5196 lbs.

> F= 0.88

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

Calculations from RG-348

Rainfall Depth = 1.50 inches

Post Development Runoff Coefficient =
On-site Water Quality Volume = 23257 cubic feet

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

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

> Storage for Sediment = 4651

Total Capture Volume (required water quality volume(s) x 1.20) = 27908 cubic feet GARY FLLJONES 79198

2/18/2024



Firm # 17877

February 18, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing Phase 1
Contributing Zone Permit
Attachment M-Construction Plans

#### To Whom It May Concern:

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

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

Gary Eli Jones, P.E. Authorized Agent

# LONE STAR LANDING PHASE ONE

# PUBLIC IMPROVEMENT CONSTRUCTION PLANS

ROBIN M. GRIFFIN, AICP, EXECUTIVE DIRECTOR OF DEVELOPMENT SERVICES		DATE	
EMILY TRUMAN, P.E., CFM, CITY ENGINEER			DATE
GINA ELLISON, P.E., PUBLIC WORKS DIRECTOR		DATE	
MARK TUMMONS, CPRP, D	IRECTOR	OF PARKS AND RECREATION	DATE
CHIEF JOSHUA DAVIS, FIR	E MARSH	AL	DATE
STATE OF TEXAS	§ § §	KNOW ALL MEN BY THESE PRESENTS:	
COUNTY OF WILLIAMSON §			

GARY EL| JONES, P.E./ LICENSED PROFESSIONAL ENGINEER ELI ENGINEERING, PLLC, FIRM #: F-17877 700 THERESA COVE CEDAR PARK, TEXAS 78613



THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY, REGULATORY COMPLIANCE, AND ADEQUACY OF THESE PLANS AND/OR SPECIFICATIONS WHETHER OR NOT THE PLANS AND/OR SPECIFICATIONS WERE REVIEWED BY THE CITY ENGINEER(S)

ALL EASEMENTS OF RECORD ARE SHOWN OR NOTED ON THE PLAT AS FOUND ON THE TITLE POLICY OR DISCOVERED WITH A TITLE SEARCH PREPARED FOR THE MOST RECENT PURCHASE OF PROPERTY.

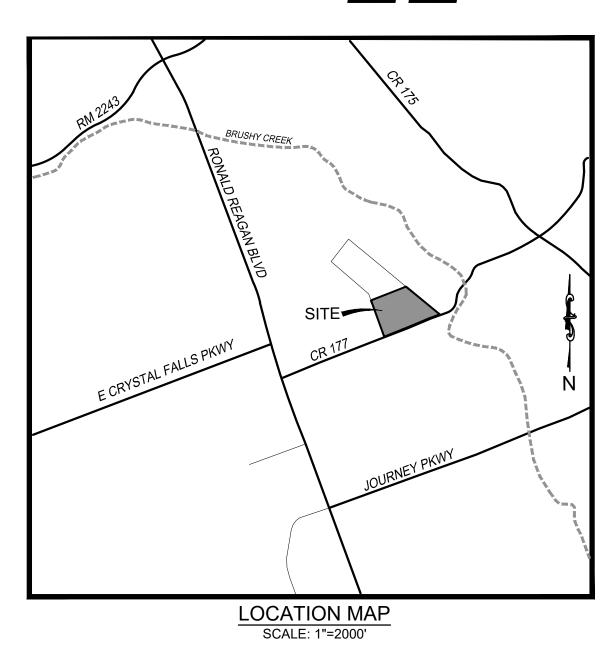
ABRAM C. DASHNER, R.P.L.S. NO. 5901 6448 E HWY 290, SUITE B-105 AUSTIN, TEXAS 78723

REVISION NUMBER	DATE	DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO.'s	TOTAL # SHEETS IN PLAN SET	APPROVAL - DATE

COUNTY ROAD 177 WILLIAMSON COUNTY, TEXAS

PROJECT NO. PICP-24-113

FILING DATE: \_\_-\_-2024



#### CONTACTS & UTILITIES

ENGINEER AND AGENT  ELI ENGINEERING, P.L.L.C.  700 THERESA COVE  CEDAR PARK, TEXAS 78613  CONTACT: GARY ELI JONES, P.E.  512-918-0819 F:512-532-0560 gejtexas@gmailc	SURVEYOR  ABRAM C. DASHNER, R.P.L.S. NO. 5901 6448 HWY 290 EAST, SUITE B-105 AUSTIN, TX 78723 512-244-3395  TBPELS FIRM NO. 10194754
APPLICANT / OWNER TEXAS LONE STAR LANDING, L.L.C. 3320 PRENTISS LANE LEANDER, TEXAS 78641 CONTACT: MALLIKARJUN GILAKATTULA 512-761-8025 mallik246@gmail.com	WATER  CITY OF LEANDER  607 MUNICIPAL DRIVE  LEANDER, TEXAS 78641  PHONE: 512-259-2640
ELECTRIC  PEDERNALES  ELECTRIC COOPERATIVE  1949 WEST WHITESTONE BLVD.  CEDAR PARK, TEXAS 78613  888-554-4732	WASTEWATER  CITY OF LEANDER  607 MUNICIPAL DRIVE  LEANDER, TEXAS 78641  PHONE: 512-259-2640
	TELEPHONE  AT&T  208 SOUTH ACKARD STREET  DALLAS, TEXAS 75202  888-333-6651  CONTACT:

\* ESTIMATED FROM SERVICE AREA MAPS; THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR PROPER UTILITY NOTIFICATION OF CONSTRUCTION ACTIVITIES AND CALLING FOR "LOCATES" OF EXISTING UTILITIES WITH EACH ACTUAL UTILITY COMPANY; REGARDLESS OF WHAT IS SHOWN ON THIS SHEET OR IN THESE PLANS. NOT ALL UTILITIES PARTICIPATE IN THE TEXAS EXCAVATION SAFETY SYSTEM, CONTRACTOR TO DO HIS OWN SUB-SURFACE UTILITY RESEARCH PRIOR TO ANY CONSTRUCTION ACTIVITY.

#### PAGE INDEX:

- COVER SHEET
- GENERAL NOTES (1 OF 2)
- GENERAL NOTES (2 OF 2)
- FINAL PLAT (1 OF 2)
- FINAL PLAT (2 OF 2) OVERALL PRELIMINARY PLAT
- APPROVED PHASING PLAN
- EXISTING CONDITIONS & DEMOLITION PLAN
- EROSION & SEDIMENTATION CONTROL AND TREE PROTECTION PLAN
- 10. VALLEY VIEW DRIVE STA 0+00 TO END
- SUZANNE KIMBERLY WAY STA 0+00 TO END
- 12. CASSIDIE NICOLE DRIVE STA 0+00 TO END
- 13. OFFSITE DRAINAGE PLAN AND CALCULATIONS
- 14. PROPOSED DRAINAGE AREA MAP
- 15. OVERALL STORM SEWER PLAN
- 16. STORM SEWER LINE A STA 0+00 TO END
- 17. STORM SEWER LINE B STA 0+00 TO END
- 18. CULVERT AND SWALE PLAN AND PROFILE (1 OF 3)
- 19. CULVERT AND SWALE PLAN AND PROFILE (2 OF 3)
- 20. CULVERT AND SWALE PLAN AND PROFILE (3 OF 3)
- 21. PROPOSED POND PLAN
- 22. PROPOSED POND PRE POST
- 23. STORM SEWER CALCULATIONS
- 24. WATER QUALITY CALCULATIONS
- 25. WATER QUALITY DETAILS
- 26. OVERALL WATER DISTRIBUTION PLAN
- 27. WATERLINE B STA 0+00 TO END
- 28. WATERLINE C STA 0+00 TO END
- 29. OVERALL WASTEWATER COLLECTION PLAN
- 30. WASTEWATER LINE 1 STA 0+00 TO END
- 31. WASTEWATER LINE 2. 3 & 4 STA 0+00 TO END
- 32. SIGNAGE, STRIPING AND SIDEWALK PLAN
- 33. LANDSCAPE PLAN
- 34. STREETLIGHTING PLAN 1.0 ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS
- 35. STREETLIGHTING PLAN 1.1 ELECTRICAL SPECIFICATIONS
- 36. STREETLIGHTING PLAN 2.0 ELECTRICAL SITE LIGHTING PLAN
- 37. STREETLIGHTING PLAN 3.0 ELECTRICAL SITE PHOTOMETRICS PLAN
- 38. STREETLIGHTING PLAN 4.0 ELECTRICAL SCHEDULES AND DETAILS 39. STREETLIGHTING PLAN - 5.0 RESIDENTIAL ROADWAY LIGHTING STANDARDS
- 40. STREETLIGHTING PLAN 5.1 RESIDENTIAL ROADWAY LIGHTING STANDARDS
- 41. STREETLIGHTING PLAN 5.2 RESIDENTIAL ROADWAY LIGHTING STANDARDS
- 42. STREETLIGHTING PLAN 5.3 RESIDENTIAL ROADWAY LIGHTING STANDARDS
- 43. CONSTRUCTION DETAILS (1 OF 10)
- 44. CONSTRUCTION DETAILS (2 OF 10)
- 45. CONSTRUCTION DETAILS (3 OF 10) 46. CONSTRUCTION DETAILS (4 OF 10)
- 47. CONSTRUCTION DETAILS (5 OF 10)
- 48. CONSTRUCTION DETAILS (6 OF 10)
- 49. CONSTRUCTION DETAILS (7 OF 10)
- 50. CONSTRUCTION DETAILS (8 OF 10)
- 51. CONSTRUCTION DETAILS (9 OF 10)
- 52. CONSTRUCTION DETAILS (10 OF 10)

- A PORTION OF THIS DEVELOPMENT LIES WITHIN ZONE "AE" AND IS WITHIN THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FEMA PANEL 48491C0460F
- DATED DECEMBER 20TH, 2019. THIS PROJECT LIES WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE. THIS PROJECT
- DOES NOT LIE WITHIN THE EDWARDS AQUIFER RECHARGE ZONE. ALL EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER AND
- 4. ALL UTILITY LINES MUST BE LOCATED UNDERGROUND.

#### CITY CONTACTS: **ENGINEERING MAIN LINE:** 512-528-2721 PLANNING DEPARTMENT: 512-528-2750 **PUBLIC WORKS MAIN LINE:** 512-259-2640 STORMWATER INSPECTIONS: 512-285-0055

512-259-1142 UTILITIES MAIN LINE: **UTILITIES ON-CALL:** 512-690-4760

#### **GENERAL:**

- 1. CONTRACTORS SHALL HAVE AN APPROVED SET OF PLANS WITH APPROVED REVISIONS ON SITE AT ALL TIMES. FAILURE TO HAVE APPROVED PLANS ON SITE MAY RESULT IN ISSUANCE
- 2. CONTACT 811 SYSTEM FOR EXISTING WATER AND WASTEWATER LOCATIONS 48 HOURS PRIOR TO CONSTRUCTION.
- a. **REFRESH ALL LOCATES <u>BEFORE</u> 14 DAYS** LOCATE REFRESH REQUESTS <u>MUST INCLUDE</u> A COPY OF YOUR 811 TICKET. TEXAS PIPELINE DAMAGE PREVENTION LAWS REQUIRE THAT A LOCATE REFRESH REQUEST BE SUBMITTED BEFORE 14 DAYS, OR IF LOCATION MARKERS ARE NO LONGER VISIBLE
- b. **REPORT PIPELINE DAMAGE IMMEDIATELY** IF YOU WITNESS OR EXPERIENCE PIPELINE EXCAVATION DAMAGE, PLEASE CONTACT THE CITY OF LEANDER BY PHONE AT 512-259-
- 3. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR 48 HOURS BEFORE:
- BEGINNING EACH PHASE OF CONSTRUCTION. CONTACT ASSIGNED CITY INSPECTOR.
- b. ANY TESTING. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF LEANDER AFTER COMPLETION.
- c. PROOF ROLLING SUB-GRADE AND EVERY LIFT OF ROADWAY EMBANKMENT, IN-PLACE DENSITY TESTING OF EVERY BASE COURSE, AND ASPHALT CORES. ALL OF THIS TESTING MUST BE WITNESSED BY A CITY OF LEANDER REPRESENTATIVE.
- d. CONNECTING TO THE EXISTING WATER LINES.
- e. THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET ROW. THE METHOD OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S ROW MUST BE APPROVED PRIOR TO THE START OF BACKFILL OPERATIONS.
- 4. ALL RESPONSIBILITILY FOR THE ACCURACY OF THESE PLANS REMAINS WITH THE ENGINEER OF RECORD WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY ON THE ADEQUACY OF THE WORK OF THE ENGINEER OF RECORD.
- 5. EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF LEANDER IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES.
- 6. BURNING IS PROHIBITED.
- 7. NO WORK IS TO BE PERFORMED BETWEEN THE HOURS OF 9:00 P.M. AND 7:00 A.M. OR WEEKENDS. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION.
- 8. CONTACT THE CITY INSPECTOR 4 DAYS PRIOR TO WORK FOR APPROVAL TO SCHEDULE ANY INSPECTIONS ON WEEKENDS OR CITY HOLIDAYS.
- 9. NO BLASTING IS ALLOWED.
- 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 SHALL USE REVISION CLOUDS TO HIGHLIGHT ALL REVISIONS AND CHANGES WITH EACH SUBMITTAL. REVISION TRIANGLE MARKERS AND NUMBERS SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MUST BE REMOVED. REVISION INFORMATION SHALL BE UPDATED ON COVER SHEET AND AFFECTED PLAN SHEET TITLE BLOCK.
- 11. THE CONTRACTOR AND ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF LEANDER ACCURATE "RECORD DRAWINGS" FOLLOWING THE COMPLETION OF ALL CONSTRUCTION. THESE "RECORD DRAWINGS" SHALL MEET THE SATISFACTION OF THE ENGINEERING DEPARTMENTS PRIOR TO FINAL ACCEPTANCE.
- 12. THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL REPAIR AND/OR COST INCURRED AS A RESULT OF ANY DAMAGE TO ANY PUBLIC INFRASTRUCTURE WITHIN CITY EASEMENT OR PUBLIC RIGHT-OF-WAY, REGARDLESS OF THESE PLANS.
- 13. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT EASEMENTS. CLEANUP SHALL BE TO THE SATISFACTION OF THE ENGINEER OF RECORD AND CITY.
- 14. CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO THE PROPERTY OWNER.
- 15. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 1033 LA POSADA DR. SUITE 375, AUSTIN, TEXAS 78752-3832.
- 16. ALL MANHOLE FRAMES/COVERS AND WATER VALVE/METER BOXES MUST BE ADJUSTED TO FINISHED GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR FOR CITY CONSTRUCTION INSPECTOR INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING. CONTRACTOR SHALL BACKFILL AROUND MANHOLES AND VALVE BOXES WITH CLASS A CONCRETE.

- 17. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL CITY OF LEANDER DETAILS AND CITY OF AUSTIN STANDARD SPECIFICATIONS.
- 18. PROJECT SPECIFICATIONS TAKE PRECEDENCE OVER PLANS AND SPECIAL CONDITIONS GOVERN OVER TECHNICAL SPECIFICATIONS.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- 20. THE CONTRACTOR MUST OBTAIN A CONSTRUCTION WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL
- 21. THE CONTRACTOR SHALL 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 SWEEPING WILL BE ALLOWED. THE CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. THE CONTRACTOR SHALL KEEP THE SITE AREA CLEAN AND MAINTAINED AT ALL TIMES, TO THE SATISFACTION OF THE CITY. THE SUBDIVISION (OR SITE) WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISIFACTION OF THE CITY.
- 22. TREES IN EXISTING ROW SHOULD BE PROTECTED OR NOTED IN THE PLANS TO BE REMOVED.

#### CONSTRUCTION SEQUENCE NOTES

NOTE: BELOW IS GENERAL SEQUENCE OF CONSTRUCTION. THE ENGINEER OF RECORD SHALL UPDATE BELOW WITH NOTES SPECIFIC TO THE PROJECT.

- 1. REACH OUT TO THE CITY FOR PRE-CONSTRUCTION MEETING AND CONSTRUCTION PERMIT.
- 2. SET-UP E/S CONTROLS AND TREE PROTECTION AND REACH OUT TO CITY FOR INSPECTION.
- 3. SET UP TEMPORARY TRAFFIC CONTROLS.
- 4. CONSTRUCT THE DRAINAGE PONDS AND STORM WATER FEATURES.
- 5. START UTILITY, ROAD, GRADING, FRANCHISE UTILITY AND ALL NECESSARY INFRASTRUCTURE CONSTRUCTION. [NOTE: PLEASE UPDATE AS PER THE PROJECT]
- 6. REQUEST FINAL WALKTHROUGH AND CONDUCT WALKTHROUGH WITH ENGINEER OF RECORD
- 7. ENGINEER OF RECORD IS RESPONSIBLE TO PREPARE AND SUBMIT CLOSEOUT DOCUMENTS FOR PROJECT CLOSEOUT.

#### EROSION CONTROL NOTES

- 1. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES AND SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- 2. THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN IN THE EROSION CONTROL MAP.
- 3. ANY ON-SITE SPOILS DISPOSAL SHALL BE REMOVED PRIOR TO ACCEPTANCE UNLESS SPECIFICALLY SHOWN ON THE PLANS. THE DEPTH OF SPOIL SHALL NOT EXCEED 10 FEET IN ANY
- 4. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RESTORED WITH A MINIMUM OF 6 INCHES OF TOPSOIL AND COMPOST BLEND. TOPSOIL ON SINGLE FAMILY LOTS MAY BE INSTALLED WITH HOME CONSTRUCTION. THE TOPSOIL AND COMPOST BLEND SHALL CONSIST OF 75% TOPSOIL AND 25% COMPOST.
- 5. SEEDING FOR REESTABLISHING VEGETATION SHALL COMPLY WITH THE AUSTIN GROW GREEN GUIDE OR WILLIAMSON COUNTY'S PROTOCOL FOR SUSTAINABLE ROADSIDES (SPEC 164--WC001 SEEDING FOR EROSION CONTROL). RESEEDING VARIETIES OF BERMUDA SHALL NOT BE USED. 6. STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED AT ALL POINTS WHERE CONSTRUCTION
- TRAFFIC IS EXITING THE PROJECT ONTO EXISTING PAVEMENT. LINEAR CONSTRUCTION PROJECTS MAY REQUIRE SPECIAL CONSIDERATION. ROADWAYS SHALL REMAIN CLEAR OF SILT AND MUD. 7. TEMPORARY STOP SIGNS SHOULD BE INSTALLED AT ALL CONSTRUCTION ENTRANCES WHERE A
- STOP CONDITION DOES NOT ALREADY EXIST. 8. IN THE EVENT OF INCLEMENT WEATHER THAT MAY RESULT IN A FLOODING SITUATION, THE CONTRACTOR SHALL REMOVE INLET PROTECTION MEASURES UNTIL SUCH TIME AS THE WEATHER EVENT HAS PASSED.

#### WATER AND WASTEWATER NOTES

#### WATER AND WASTEWATER GENERAL NOTES

- 1. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AND ORGANIZATION ACCREDITED BY ANSI.
- 2. ALL WATER SERVICE, WASTEWATER SERVICE AND VALVE LOCATIONS SHALL BE APPROPRIATELY STAMPED AS FOLLOWS:

WATER SERVICE "W" ON TOP OF CURB WASTEWATER SERVICE "S" ON TOP OF CURB VALVE "V" ON TOP OF CURB

- 3. OPEN UTILITIES SHALL NOT BE PERMITTED ACROSS THE EXISTING PAVED SURFACES. WATER AND WASTEWATER LINES ACROSS THE EXISTING PAVED SURFACES SHALL BE BORED AND INSTALLED IN STEEL ENCASEMENT PIPES. BELL RESTRAINTS SHALL BE PROVIDED AT JOINTS.
- 4. INTERIOR SURFACES OF ALL DUCTILE IRON POTABLE OR RECLAIMED WATER PIPE SHALL BE CEMENT-MORTAR LINED AND SEAL COATED AS REQUIRED BY AWWA C104.
- 5. SAND, AS DESCRIBED IN AUSTIN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WATER AND WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

IEVE SIZE	PERCENT RETAINED BY WEIGHT
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

6. DENSITY TESTING FOR TRENCH BACKFILL SHALL BE DONE IN MAXIMUM 12" LIFTS.

#### WATER

- 1. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR CITY PERSONNEL. AT THE CONTRACTORS' REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED BY THE CITY OF LEANDER NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE CITY.
- 2. 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 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.
- 3. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 AM AND 6 AM AFTER COORDINATING WITH CITY CONSTRUCTION INSPECTORS AND INFORMING AFFECTED PROPERTIES.
- 4. PRESSURE TAPS OR HOT TAPS SHALL BE IN ACCORDANCE WITH CITY OF LEANDER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION AND SHALL FURNISH, INSTALL AND AIR TEST THE SLEEVE AND VALVE. A CITY OF LEANDER INSPECTOR MUST BE PRESENT WHEN THE CONTRACTOR MAKES A TAP, AND/OR ASSOCIATED TESTS. A MINIMUM OF TWO (2) WORKING DAYS NOTICE IS REQUIRED. "SIZE ON SIZE" TAPS SHALL NOT BE PERMITTED UNLESS MADE BY THE USE OF AN APPROVED FULL-CIRCLE GASKETED TAPPING SLEEVE. CONCRETE THRUST BLOCKS SHALL BE PLACED BEHIND AND UNDER ALL TAP SLEEVES A MINIMUM OF 24 HOURS PRIOR TO THE BRANCH BEING PLACED INTO SERVICE. THRUST BLOCKS SHALL BE INSPECTED PRIOR TO BACKFILL.
- 5. FIRE HYDRANTS ON MAINS UNDER CONSTRUCTION SHALL BE SECURELY WRAPPED WITH A BLACK POLY WRAP BAG AND TAPED INTO PLACE. THE POLY WRAP SHALL BE REMOVED WHEN THE MAINS ARE ACCEPTED AND PLACED INTO SERVICE.
- 6. THRUST BLOCKS OR RESTRAINTS SHALL BE IN ACCORDANCE WITH THE CITY OF LEANDER STANDARD SPECIFICATIONS AND REQUIRED AT ALL FITTINGS PER DETAIL OR MANUFACTURER'S RECOMMENDATION. ALL FITTINGS SHALL HAVE BOTH THRUST BLOCKS AND RESTRAINTS.
- 7. ALL DEAD END WATER MAINS SHALL HAVE "FIRE HYDRANT ASSEMBLY" OR "BLOW-OFF VALVE AND THRUST BLOCK" OR "BLOW-OFF VALVE AND THRUST RESTRAINTS". THRUST RESTRAINTS SHALL BE INSTALLED ON THE MINIMUM LAST THREE PIPE LENGTHS (STANDARD 20' LAYING LENGTH). ADDITIONALL THRUST RESTRAINTS MAY BE REQUIRED BASED UPON THE MANUFACTURERS RECOMMENDATION AND/OR ENGINEER'S DESIGN.

#### **Texas Commission on Environmental Quality** Water Pollution Abatement Plan

dwards Aquifer Protection Program Construction Notes – Legal Disclaim

Further actions may be required to achieve compliance with TCEQ regulations found in Title 30, Texas Administrative Code (TAC), Chapters 213 and 217, as well as local ordinances and regulations providing for the protection of water quality. Additionally, nothing contained in the following/listed "construction notes" restricts the powers of the ED, the commission or any other governmental entity to prevent, correct, or 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 implementatio Failure to comply with any condition of the ED's approval, whether or not in contradiction of any "construction notes," is a violation of TCEQ regulations and any violation is subject to administrative rules, orders, and penalties as provided under Title 30, TAC § 213.10 (relating to Enforcement). Such violations may also be subject to civil penalties and injunction. The following/listed "construction notes" in no way

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include: - the name of the approved project;

- All contractors conducting regulated activities associated with this project must be provided
- If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspende mmediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse
- No temporary or permanent hazardous substance storage tank shall be installed within 150
- Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used nappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been
- Any sediment that escapes the construction site must be collected and properly disposed of pefore the next rain event to ensure it is not washed into surface streams, sensitive features,
- Sediment must be removed from the sediment traps or sedimentation basins not later than
- Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.
- All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the
- 10. If portions of the site will have a temporary or permanent cease in construction activity lasting onger than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14<sup>th</sup> day of inactivity. If activity will resume prior to the 21<sup>st</sup> day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.
- 11. The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur - the dates when construction activities temporarily or permanently cease on a portion
- 12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any
  - any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and
- originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
- any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 12100 Park 35 Circle, Building A San Antonio Regional Office 14250 Judson Road San Antonio. Texas 78233-4480 Austin, Texas 78753-1808 Phone (512) 339-2929 Phone (210) 490-3096

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION

TCEQ-0592 (Rev. July 15, 2015)

### **General Construction Notes**

present an approved exception by the ED to any part of Title 30 TAC, Chapters 213 and 217, or any other TCEQ applicable regulatio

- the activity start date; and

- with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and
- feet of a water supply source, distribution system, well, or sensitive feature.
- permanently stabilized.
- when it occupies 50% of the basin's design capacity

- the dates when stabilization measures are initiated
- any change in the nature or character of the regulated activity from that which was

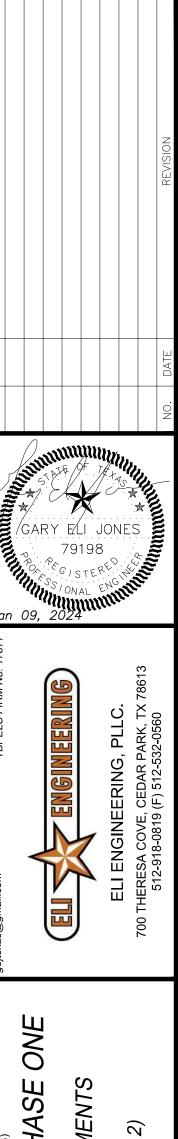
Fax (512) 339-3795 Fax (210) 545-4329

PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

Page 2 of 2

SEQUENCE OF CONSTRUCTION

- 1. INSTALL ALL EROSION CONTROL. 2. CONDUCT PRE-CONSTRUCTION
- CONFERENCE. ESTABLISH SUBGRADE ON PROJECT.
- 4. INSTALL WASTEWATER UTILITIES.
- INSTALL WATERLINE UTILITIES. INSTALL STORMDRAIN. FINALIZE SUBGRADE.
- INSTALL BASE MATERIAL. 9. INSTALL CURB AND GUTTER.
- 10. FINALIZE BASE AND PRIME COAT.
- 11. PAVE ROADS. 12. REVEGETATE ALL DISTURBED AREAS.
- 13. REMOVE TEMPORARY EROSION CONTROL SUBSEQUENT TO ESTABLISHMENT OF VEGETATION.



SHEET

- 8. PIPE MATERIAL FOR PUBLIC WATER MAINS SHALL BE PVC (AWWA C900-DR14 MIN. 305 PSI PRESSURE RATING). WATER SERVICES (2" OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200PSI, AND SDR-(9)). COPPER PIPES AND FITTINGS ARE NOT ALLOWED IN THE PUBLIC RIGHT OF WAY. ALL PLASTIC PIPES FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW).
- 9. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C115/C151 PRESSURE CLASS
- 10. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE.
- 11. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE COORDINATED WITH THE PUBLIC WORKS DEPARTMENT.
- 12. ALL WATER METER BOXES SHALL BE:
  - a. SINGLE, 1" METER AND BELOW DFW37F-12-1CA, OR EQUAL
  - b. DUAL, 1" METERS AND BELOW DFW39F-12-1CA, OR EQUAL
  - c. 1.5" SINGLE METER DFW65C-14-1CA, OR EQUAL
  - d. 2" SINGLE METER DFW1730F-12-1CA, OR EQUAL
- 13. ALL WATER VALVE COVERS ARE TO BE PAINTED BLUE.

#### WASTEWATER

- 1. CURVILINEAR WASTEWATER DESIGN LAYOUT IS NOT PERMITTED.
- 2. MANDREL TESTING SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS.
- 3. MANHOLES SHALL BE COATED PER CITY OF AUSTIN SPL WW-511 (RAVEN 405 OR SPRAYWALL). PENETRATIONS TO EXISTING WASTEWATER MANHOLES REQUIRE THE CONTRACTOR TO RECOAT THE ENTIRE MANHOLE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATIONS SECTION NO. 506.5
- 4. RECLAIMED AND RECYCLED WATER LINE SHALL BE CONSTRUCTED OF "PURPLE PIPE." ALL RECLAIMED AND RECYCLED WATER VALVE COVERS SHALL BE SQUARE AND PAINTED PURPLE.
- 5. FORCE MAIN PIPES NEED TO HAVE SWEEPING WYES FOR JOINTS.

#### STREET AND DRAINAGE NOTES

- 1. THE CITY OF LEANDER HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA). IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE COMPLIANCE WITH ALL LEGISTATION RELATED TO ACCESSIBLITY WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARS (TAS).
- 2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 6" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANT LIFE.
- 3. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED BETWEEN THE CURB AND RIGHT-OF-WAY AND IN ALL DRAINAGE CHANNELS EXCEPT CHANNELS CUT IN STABLE ROCK.
- 4. DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT, INCLUDING GAS, ELECTRIC TELEPHONE, CABLE TV, ETC., SHALL BE A MINIMUM OF 36" BELOW SUBGRADE.
- 5. STREET RIGHT-OF-WAY SHALL BE GRADED AT A SLOPE OF ¼" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED.
- 6. ALL DRAINAGE PIPE IN PUBLIC RIGHT OF WAY OR EASEMENTS SHALL BE REINFORCED CONCRETE PIPE MINIMUM CLASS III OF TONGUE AND GROOVE OR O-RING JOINT DESIGN. CORRUGATED METAL PIPE IS NOT ALLOWED IN PUBLIC RIGHT OR WAY OR EASEMENTS.
- 7. THE CONTRACTOR MUST PROVIDE A PNEUMATIC TRUCK PER TXDOT SPEC FOR PROOF ROLLING.

  8. ALL STRIPING WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO
- 8. ALL STRIPING, WITH THE EXCEPTION OF STOP BARS, CROSS WALKS, WORDS AND ARROWS, IS TO BE TYPE II (WATER BASED). STOP BARS, CROSS WALKS, WORDS AND ARROWS REQUIRE TYPE I THERMOPLASTIC.
- 9. MANHOLE FRAMES, COVERS, VALVES, CLEAN-OUTS, ETC. SHALL BE RAISED TO GRADE PRIOR TO FINAL PAVEMENT CONSTRUCTION.
- 10. A STOP BAR SHALL BE PLACED AT ALL STOP SIGN LOCATIONS.
- 11. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE APPROVED CONSTRUCTION PLANS.
- 12. GEOTECHNICAL INVESTIGATION INFORMATION AND PAVEMENT RECOMMENDATIONS WERE PROVIDED BY <u>RETL</u>. PAVEMENT RECOMMENDATIONS ARE AS FOLLOWS:
- a. PROVIDE RECOMMENDATIONS. (SEE SHEET 4)
- 13. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CITY OF AUSTIN TRANSPORATION CRITERIA MANUAL, CITY OF LEANDER STANDARD DETAILS AND TEXAS DEPARTMENT OF TRANSPORTATION CRITERIA, SHALL BE SUBMITTED TO THE CITY OF LEANDER FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS MUST BE SITE SPECIFIC AND SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- 14. ALL LANE CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM UNLESS OTHERWISE NOTED ON THE PLANS. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL OF THE CITY ENGINEER AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY THE CITY DURING PEAK HOURS OF 6 AM TO 9 AM OR 4 PM TO 8 PM WILL BE SUBJECT TO A FINE AND/OR SUBSEQUENT ISSUANCE OF WORK STOPPAGE.
- 15. TEMPORARY ROCK CRUSHING IS NOT ALLOWED. ALL SOURCES OF FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY. PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR PROPOSED STOCK PILES ARE TO BE SUBMITTED TO THE CITY CONSTRUCTION INSPECTOR FOR REVIEW AND APPROVAL.
- 16. AT ROAD INTERSECTIONS THAT HAVE A VALLEY GUTTER, THE CROWN TO THE INTERSECTING ROAD WILL BE CULMINATED AT A DISTANCE OF 40 FEET FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
- 17. NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAYS AND PUBLIC STREETS. RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE.

- 18. ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM TWO PERCENT SLOPE WITHIN THE PUBLIC RIGHT OF WAY UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT.
- 19. IMPROVEMENTS THAT INCLUDE RECONSTRUCTION OF AN EXISTING TYPE II DRIVEWAY SHALL BE DONE IN A MANNER WHICH RETAINS OPERATIONS OF NOT LESS THAN HALF OF THE DRVIEWAY TO REMAIN OPEN AT ALL TIMES. FULL CLOSURE OF SUCH DRIVEWAY CAN BE CONSIDERED WITH WRITTEN AUTHORIZATION OBTAINED BY THE CONTRACTOR FROM ALL PROPERTY OWNERS AND ACCESS EASEMENT RIGHT HOLDERS ALLOWING THE FULL CLOSURE OF THE DRIVEWAY.
- 20. CONTRACTOR MUST CLEAR FIVE (5) FEET BEYOND ALL PUBLIC RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH INTO THE SIDEWALK AREAS.
- 21. SLOPE OF NATURAL GROUND ADJACENT TO THE PUBLIC RIGHT OF WAY SHALL NOT EXCEED 3:1 SLOPE. IF A 3:1 SLOPE IS NOT POSSIBLE, SLOPE PROTECTION OR RETAINING WALL MUST BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO FINAL ACCEPTANCE.
- 22. THERE SHALL BE NO WATER, WASTEWATER OR DRAINAGE APPURTENANCES, INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC OR PEDESTRIAN AREA.
- 23. PUBLIC SIDEWALKS SHALL NOT USE CURB INLETS AS PARTIAL WALKING SURFACE. SIDEWALKS SHALL NOT USE TRAFFIC CONTROL BOXES, METERS, CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.
- 24. ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTION(S) PRIOR TO THE INSTALLATION OF DRY UTILITIES.
- 25. DRY UTILITIES SHALL BE INSTALLED AFTER SUBGRADE IS CUT AND BEFORE THE FIRST COURSE OF BASE. NO TRENCHING COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE SHALL BE BORED ACROSS THE FULL WIDTH OF THE PUBLIC RIGHT-OF-WAY.
- 26. A MINIMUM OF SEVEN (7) DAYS OF CURE TIME IS REQUIRED FOR HMAC PRIOR TO THE INTRODUCTION OF VEHICULAR TRAFFIC TO ALL STREETS.

#### TRENCH SAFETY NOTES

1. TRENCH SAFETY SYSTEMS TO BE UTILIZED FOR THIS PROJECT ARE DESCRIBED IN ITEM 509S "TRENCH SAFETY SYSTEMS" OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS AND SHALL BE IN ACCORDANCE WITH THE LAWS OF THE STATE OF TEXAS AND THE U.S. OCCUPATION SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

#### **GRADING NOTES**

- POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
- 2. THE CONTRACTOR SHALL CONSTRUCT EARTHEN EMBANKMENTS WITH SLOPES NO STEEPER THAN 3:1 AND COMPACT SOIL TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
- 3. AREAS OF SOIL DISTURBANCE ARE LIMITED TO GRADING AND IMPROVEMENTS SHOWN. ALL OTHER AREAS WILL NOT BE DISTURBED.

#### BENCHMARK NOTES

- TBM "A" CUT SQUARE IN CONCRETE
- N: 10182151.94 E: 3097679.94
- NAVD88(2012B) ELEV = 878.92'

TBM "B" CUT SQUARE IN CONCRETE

N: 10180852.43

E: 3096220.81 NAVD88(2012B) ELEV = 868.12'

TBM "C" CUT SQUARE IN CONCRETE

N: 10180477.94

E: 3095210.97 NAVD88(2012B) ELEV = 895.76'

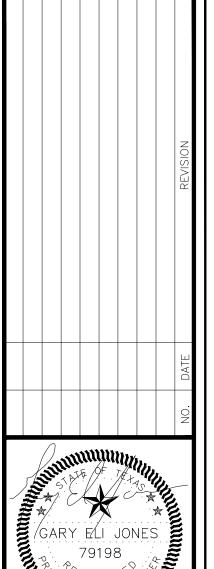
TBM "D" CUT SQUARE IN CONCRETE N: 10179630.59

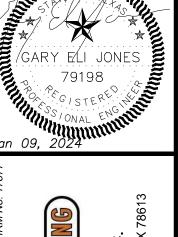
E: 3093191.27 NAVD88(2012B) ELEV = 933.79'

TBM "E" CUT SQUARE IN CONCRETE

N: 10179568.41 E: 3093035.19

NAVD88(2012B) ELEV = 933.56'







NE STAK LANDING PHASE SUBDIVISION IMPROVEMENTS

DRAWING SCALE:

VERT.=

SURVEYED:

FILE NAME:

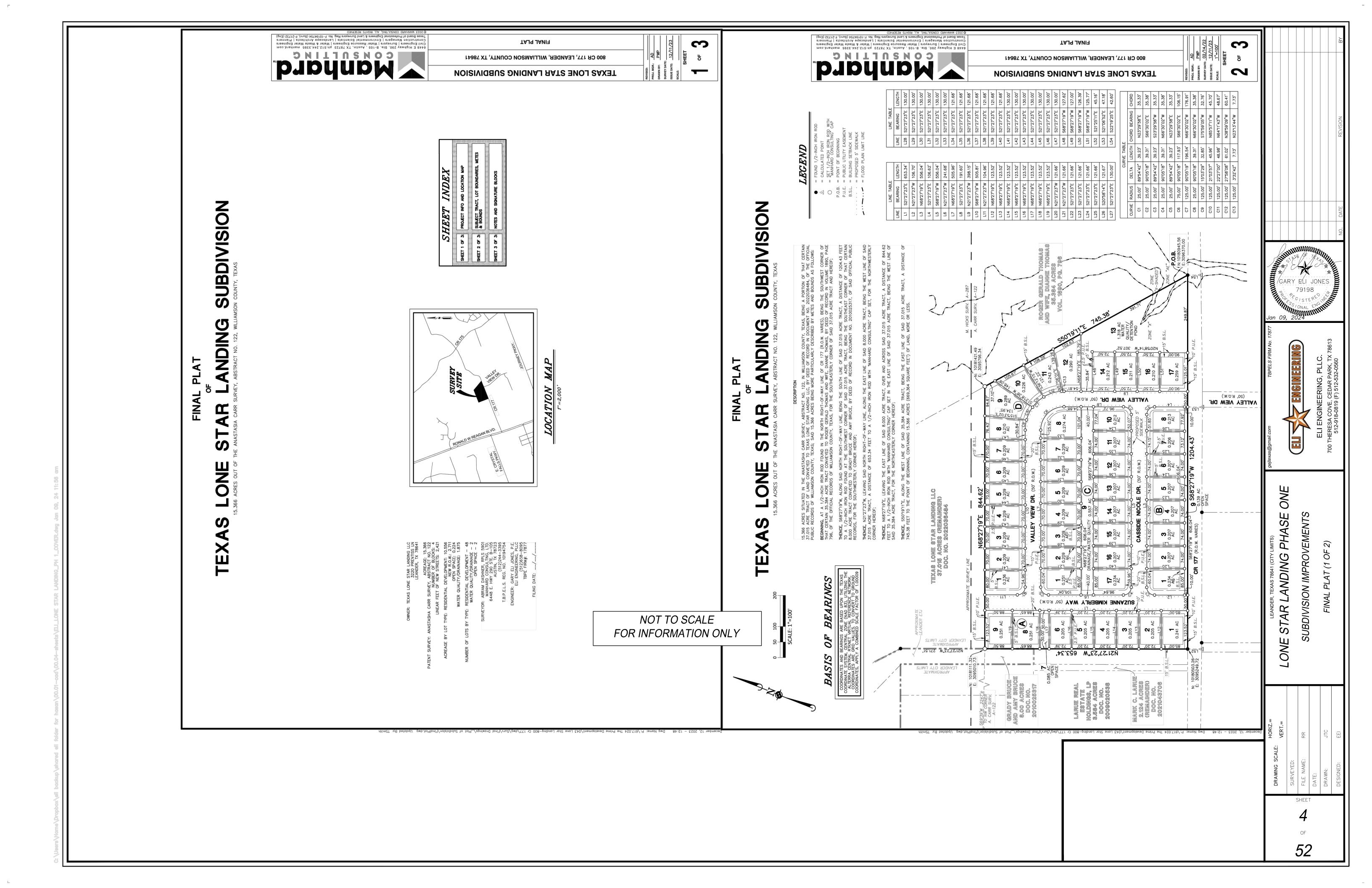
DATE:

DRAWN:

JTC

**3** 

*52* 



### FINAL PLAT

## TEXAS LONE STAR LANDING SUBDIVISION

15.366 ACRES OUT OF THE ANASTASIA CARR SURVEY, ABSTRACT NO. 122, WILLIAMSON COUNTY, TEXAS

#### OWNER'S CERTIFICATE:

STATE OF TEXAS COUNTY OF WILLIAMSON

THAT TEXAS LONE STAR LANDING LLC, A TEXAS LIMITED LIABILITY COMPANY, BEING OWNER OF 15.366 ACRES IN THE ANASTASHA CARR SURVEY. ABSTRACT NO. 122 IN WILLIAMSON COUNTY, TEXAS, BEING A PORTION OF THAT CERTAIN 37.015 ACRE TRACT OF LAND RECORDED IN DOCUMENT NO. 2022036484, OF THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS DOES HEREBY CERTIFY THAT THERE ARE NO LIEN HOLDERS AND DEDICATES TO THE PUBLIC FOREVER USE OF ALL ADDITIONAL ROW STREETS, ALLEYS, EASEMENTS, PARKS, AND ALL OTHER LANDS INTENDED FOR PUBLIC DEDICATION, OR WHEN THE SUBDIVIDER HAS MADE PROVISION FOR PERPETUAL MAINTENANCE THEREOF, TO THE INHABITANTS OF THE SUBDIVISION AS SHOWN HEREON TO BE KNOWN AS TEXAS LONE STAR LANDING

WITNESS MY HAND THIS THE \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_, 20\_\_\_ A.D.

TEXAS LONE STAR LANDING, LLC A TEXAS LIMITED LIABILITY COMPANY

BY: MALLIKARJUNA GILAKATTULA, MANAGER TEXAS LONE STAR LANDING, LLC 3220 PRENTISS LN LEANDER, TX 78641

STATE OF TEXAS COUNTY OF WILLIAMSON

BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE.

\_\_, PERSONALLY APPEARED, MALLIKARJUNA \_ DAY OF GILAKATTULA AS MANAGER, OF TEXAS LONE STAR LANDING LLC, A TEXAS LIMITED LIABILITY COMPANY, ON BEHALF OF SAID TEXAS LONG STAR LANDING LLC, A DULY AUTHORIZED AGENT WITH AUTHORITY TO SIGN SAID DOCUMENT, PERSONALLY KNOWN TO ME (AND PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE) TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT (S)HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION THEREIN EXPRESSED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME MY COMMISSION EXPIRES

#### LIEN HOLDER'S CERTIFICATE:

THE STATE OF TEXAS COUNTY OF \_\_\_\_

BY SIGNING THIS PLAT, FOR AND IN CONSIDERATION OF THE SUM OF TEN DOLLARS (\$10.00) AND OTHER GOOD AND VALUABLE CONSIDERATION, THE SUFFICIENCY AND RECEIPT OF WHICH IS HERBY ACKNOWLEDGED, THE UNDERSIGNED HEREBY RELEASES THE RIGHTS-OF-WAY, STREETS, ALLEYS, EASEMENTS, PARKS, AND OTHER OPEN SPACES DEDICATED TO THE CITY OR TO PUBLIC USE SET FORTH ON THIS PLAT, FROM ANY DEED OF TRUST, VENDOR'S LIEN, OR OTHER TYPE OF LIEN OR NOTE ON THE PROPERTY OWNED BY THE LIEN HOLDER, INCLUDING BUT NOT LIMITED TO THE NOTE AND LIEN DESCRIBED IN THE INSTRUMENT ENTITLED SPECIAL WARRANTY DEED WITH VENDOR'S LIEN, DATED MARCH 21, 2022, FILED OF RECORD IN THE OFFICIAL PUBLIC RECORDS OF WILLIAMSON COUNTY, TEXAS

GREAT CENTRAL MORTGAGE ACCEPTANCE COMPANY, LTD.

THE STATE OF TEXAS COUNTY OF \_\_\_\_\_

BEFORE ME, THE UNDERSIGNED AUTHORITY, A NOTARY PUBLIC IN AND FOR SAID COUNTY AND STATE,

\_\_\_\_\_DAY OF \_\_\_\_\_\_, 20\_\_\_\_, PERSONALLY APPEARED,

OF GREAT CENTRAL MORTGAGE ACCEPTANCE COMPANY, LTD., A TEXAS DOMESTIC LIMITED PARTNERSHIP, ON BEHALF OF SAID GREAT CENTRAL MORTGAGE ACCEPTANCE COMPANY, LTD., A DULY AUTHORIZED AGENT WITH AUTHORITY TO SIGN SAID DOCUMENT, PERSONALLY KNOWN TO ME (AND PROVED TO ME ON THE BASIS OF SATISFACTORY EVIDENCE) TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO ME THAT (S)HE EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATION THEREIN EXPRESSED.

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_

NOTARY PUBLIC, STATE OF TEXAS

PRINTED NAME MY COMMISSION EXPIRES

#### PLAT NOTES:

1) THIS SUBDIVISION IS WHOLLY CONTAINED WITHIN THE CURRENT CORPORATE LIMITS OF THE CITY OF LEANDER, TEXAS.

2) NO LOT IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO THE CITY OF LÉANDER WATER DISTRIBUTION AND WASTEWATER COLLECTION FACILITIES.

3) A BUILDING PERMIT IS REQUIRED FROM THE CITY OF LEANDER PRIOR TO CONSTRUCTION OF ANY BUILDING OR SITE IMPROVEMENTS ON ANY LOT IN THIS SUBDIVISION.

4) NO BUILDINGS, FENCES, LANDSCAPING OR OTHER STRUCTURES ARE PERMITTED WITHIN DRAINAGE EASEMENTS SHOWN EXCEPT AS APPROVED BY THE CITY OF LEANDER PUBLIC WORKS

5) PROPERTY OWNER SHALL PROVIDE FOR ACCESS TO DRAINAGE EASEMENTS AS MAY BE NÉCESSARY AND SHALL NOT PROHIBIT ACCESS BY THE CITY OF LEANDER.

6) ALL EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER OR HIS OR HER ASSIGNS.

7) PORTIONS OF THIS TRACT ARE WITHIN ZONE "X", ZONE "X-SHADED" AND ZONE "AE" FLOOD HAZARD AREA AS IDENTIFIED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, NATIONAL FLOOD INSURANCE PROGRAM, AS SHOWN ON MAP NO. 48491C0460F, DATED DECEMBER 20, 2019, FOR WILLIAMSON COUNTY, TEXAS AND INCORPORATED AREAS.

8) BUILDING SETBACKS NOT SHOWN HEREON SHALL COMPLY WITH THE MOST CURRENT ZONING ORDINANCE OF THE CITY OF LEANDER. ADDITIONAL RESIDENTIAL GARAGE SETBACKS MAY BE REQUIRED AS LISTED IN THE CURRENT ZONING ORDINANCE.

9) ALL PROPOSED UTILITY LINES MUST BE LOCATED UNDERGROUND

10) APPROVAL OF THIS FINAL PLAT DOES NOT CONSTITUTE THE APPROVAL OF VARIANCES OR WAIVERS TO ORDINANCE REQUIREMENTS.

11) IN ADDITION TO THE EASEMENTS SHOWN HEREON, A TEN (10') FOOT WIDE PUBLIC UTILITY EÁSEMENT, ACCCESS EASEMENT AND LANDSCAPE EASEMENT ÍS DEDICATED ALONG AND ADJACENT TO ALL RIGHT-OF-WAY AND A TWO AND A HALF (2.5') FOOT WIDE PUBLIC UTILITY EASEMENT IS DEDICATED ALONG ALL SIDE LOT LINES.

12) ALL DRIVE LANES, FIRE LANES, AND DRIVEWAYS WITHIN THIS SUBDIVISION SHALL PROVIDE FOR RECIPROCAL ACCESS FOR INGRESS AND EGRESS TO ALL OTHER LOTS WITHIN THE SUBDIVISION AND TO ADJACENT PROPERTIES.

13) AT THE TIME OF SITE DEVELOPMENT PERMIT, THE APPLICANT WILL PROVIDE A PAYMENT TO THE CITY IN LIEU OF A TRAFFIC IMPACT ANALYSIS (TIA), UNLESS A TIA FOR THE ENTIRE DEVELOPMENT INDICATES THAT AVERAGE DAILY TRIPS ARE ESTIMATED BELOW 2,000.

14) SIDEWALKS SHALL BE INSTALLED ON THE SUBDIVISION SIDE OF CR 177. THOSE SIDEWALKS NOT ABUTTING A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL LOT (INCLUDING SIDEWALKS ALONG STREET FRONTAGES OF LOTS PROPOSED FOR SCHOOLS, CHURCHES, PARK LOTS, DETENTION LOTS, DRAINAGE LOTS, LANDSCAPE LOTS, OR SIMILAR LOTS), SIDEWALKS ON ARTERIAL STREETS TO WHICH ACCESS IS PROHIBITED, SIDEWALKS ON DOUBLE FRONTAGE LOTS ON THE SIDE TO WHICH ACCESS IS PROHIBITED, AND ALL SIDEWALKS ON SAFE SCHOOL ROUTES SHALL BE INSTALLED WHEN THE ADJOINING STREET IS CONSTRUCTED.

15) ALL EASEMENTS OF RECORD ARE SHOWN OR NOTED ON THE PLAT AS FOUND IN THE TITLE PÓLICY OR THROUGH DISCOVERY OF A TITLE SEARCH PREPARED FOR THE MOST RECENT PURCHASE OF PROPERTY.

16) TCEQ APPROVAL WILL BE PROVIDED FOR WATER QUALITY REQUIREMENTS DURING THE CONSTRUCTION PLAN SUBMITTAL.

### SURVEYORS CERTIFICATE:

, ABRAM C. DASHNER, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF LAND SURVEYING, AND HEREBY STATE THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH ALL CITY OF LEANDER ORDINANCE AND CODES, AND THAT ALL EXISTING EASEMENTS OF RECORD AS FOUND ON THE TITLE COMMITMENT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, G.F. NO.: 21-4739-C, EFFECTIVE DATE: NOVEMBER 10, 2021, HAVE BEEN SHOWN OR NOTED HEREON.

TO CERTIFY WHICH, WITNESS MY HAND AND SEAL THIS \_\_TH DAY OF \_\_\_\_\_, 20\_\_\_\_,

ABRAM D. DASHNER RPLS 5901

SURVEYING BY: MANHARD CONSULTING, LTD 6448 E. HWY 290 STE. B-105 AUSTIN, TX 78723 512-244-3395

#### **ENGINEERS CERTIFICATE:**

I, GARY ELI JONES, AM AUTHORIZED UNDER THE LAWS OF THE STATE OF TEXAS TO PRACTICE THE PROFESSION OF ENGINEERING, AND DO HEREBY STATE THAT THIS PLAT CONFORMS WITH THE APPLICABLE ORDINANCES OF THE CITY OF LEANDER, TEXAS.

GARY ELI JONES, P.E. ELI ENGINEERING, PLLC (512)658-8095 TBPE FIRM#: 17877

#### CITY CERTIFICATION

THE STATE OF TEXAS §

COUNTY OF WILLIAMSON §

NANCY RISTER, CLERK, COUNTY COURT

WILLIAMSON COUNTY, TEXAS

APPROVED THIS THE \_\_\_\_\_ DAY OF \_\_\_\_\_\_\_, 20\_\_\_, 20\_\_\_ A.D., AT A PUBLIC MEETING OF THE PLANNING AND ZONING COMMISSION OF THE CITY OF LEANDER, TEXAS AND AUTHORIZED TO BE FILED FOR RECORD BY THE COUNTY CLERK OF WILLIAMSON COUNTY,

RON MAY, CHAIRMAN PLANNING AND ZONING COMMISSION CITY OF LEANDER, TEXAS

WILLIAMSON COUNTY CLERK RECORDATION CERTIFICATION:

AUTHENTICATION, WAS FILED FOR RECORD IN MY OFFICE ON

THAT I, NANCY RISTER, CLERK OF THE COUNTY COURT OF SAID COUNTY, DO HEREBY

THE \_\_\_\_\_ DAY OF \_\_\_\_\_\_A.D., 20\_\_\_, AT \_\_\_\_ O'CLOCK \_\_\_M.

AND DULY RECORDED ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, A.D., 20\_\_\_ AT

OF SAID COUNTY, AT OFFICE IN GEORGETOWN, TEXAS, THE DATE LAST ABOVE WRITTEN.

WITNESS MY HAND AND SEAL OF THE COUNTY COURT

CERTIFY THAT THE FOREGOING INSTRUMENT IN WRITING, WITH ITS CERTIFICATION OF

\_\_\_\_O'CLOCK \_\_\_M. IN THE PLAT RECORDS OF SAID COUNTY, IN DOCUMENT

ELLEN COUFAL, SECRETARY PLANNING AND ZONING COMMISSION CITY OF LEANDER, TEXAS



PROJ. MGR.: AD DRAWN BY: PWP SURVEY DATE: \_ ISSUE DATE: 12/11/23

SHEET OF

SUBDIVISIO

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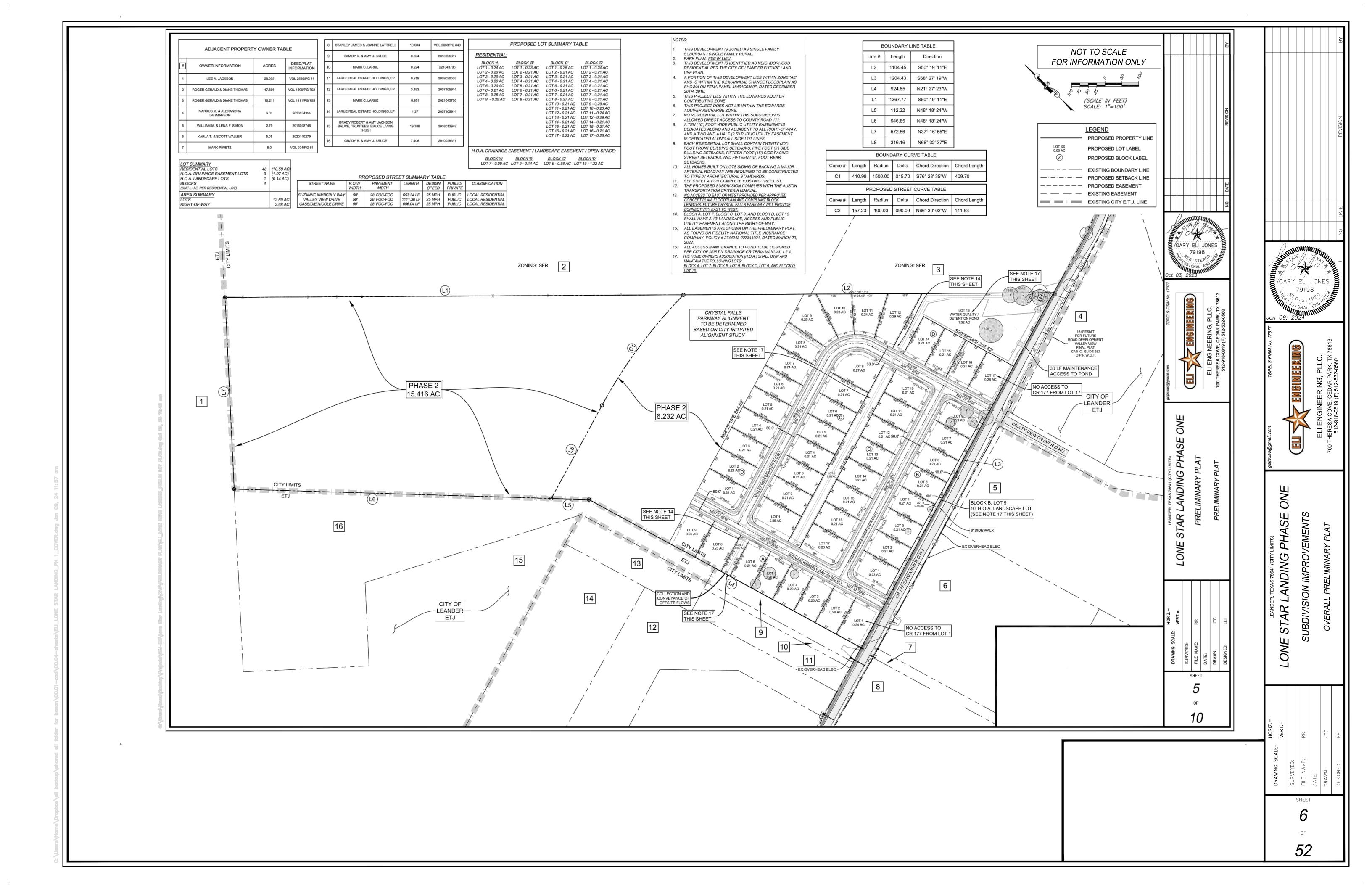
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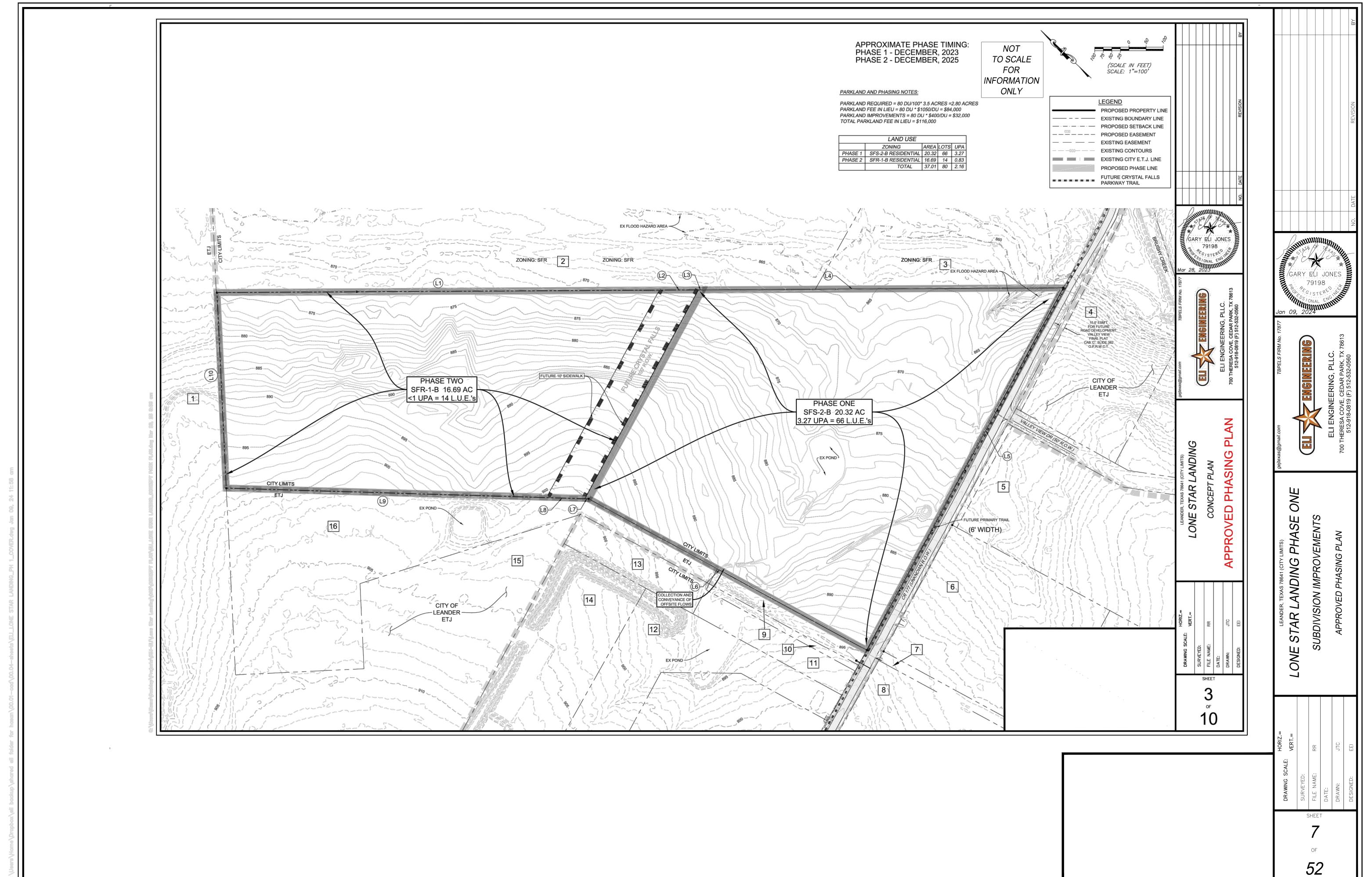
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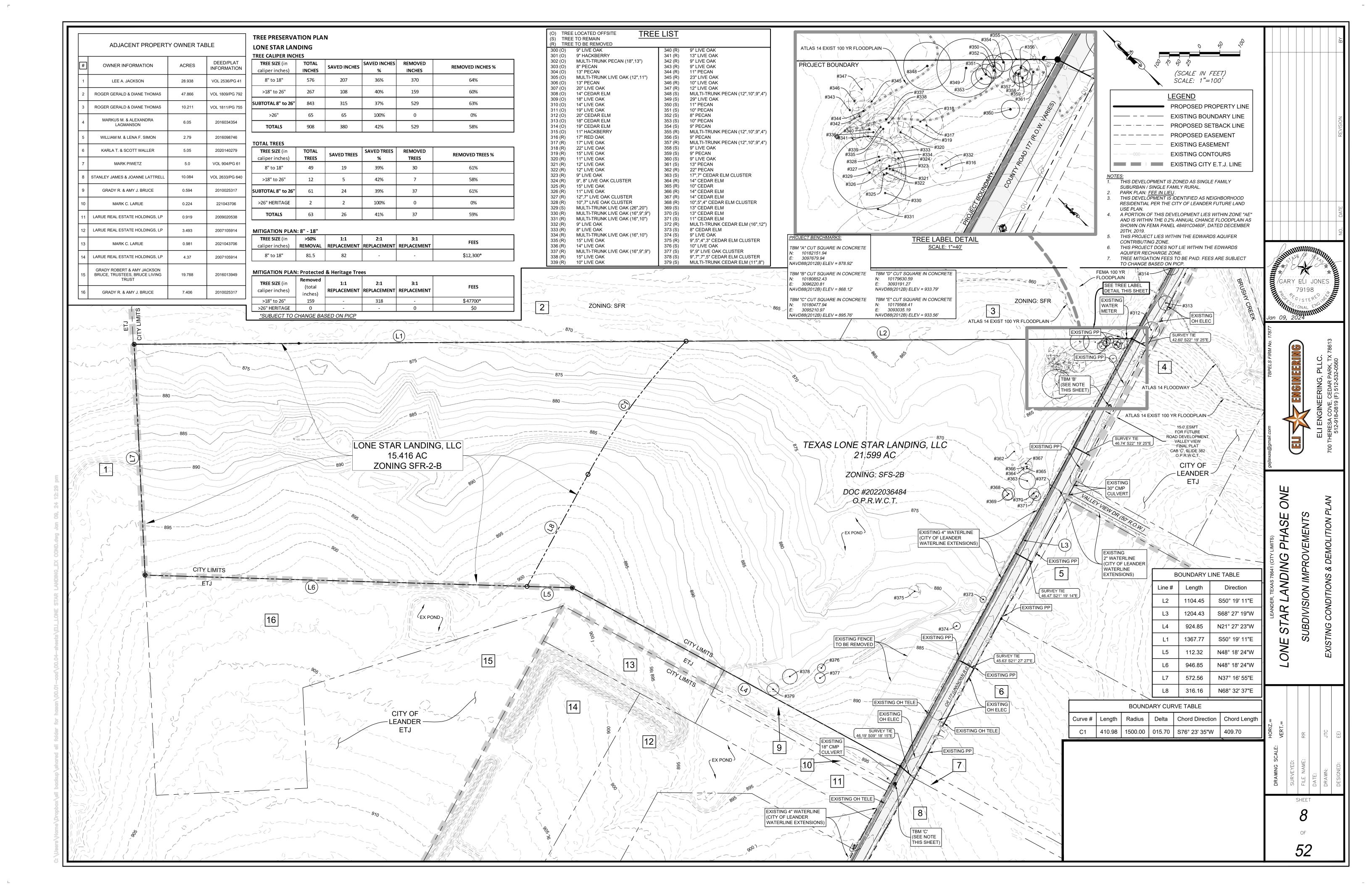
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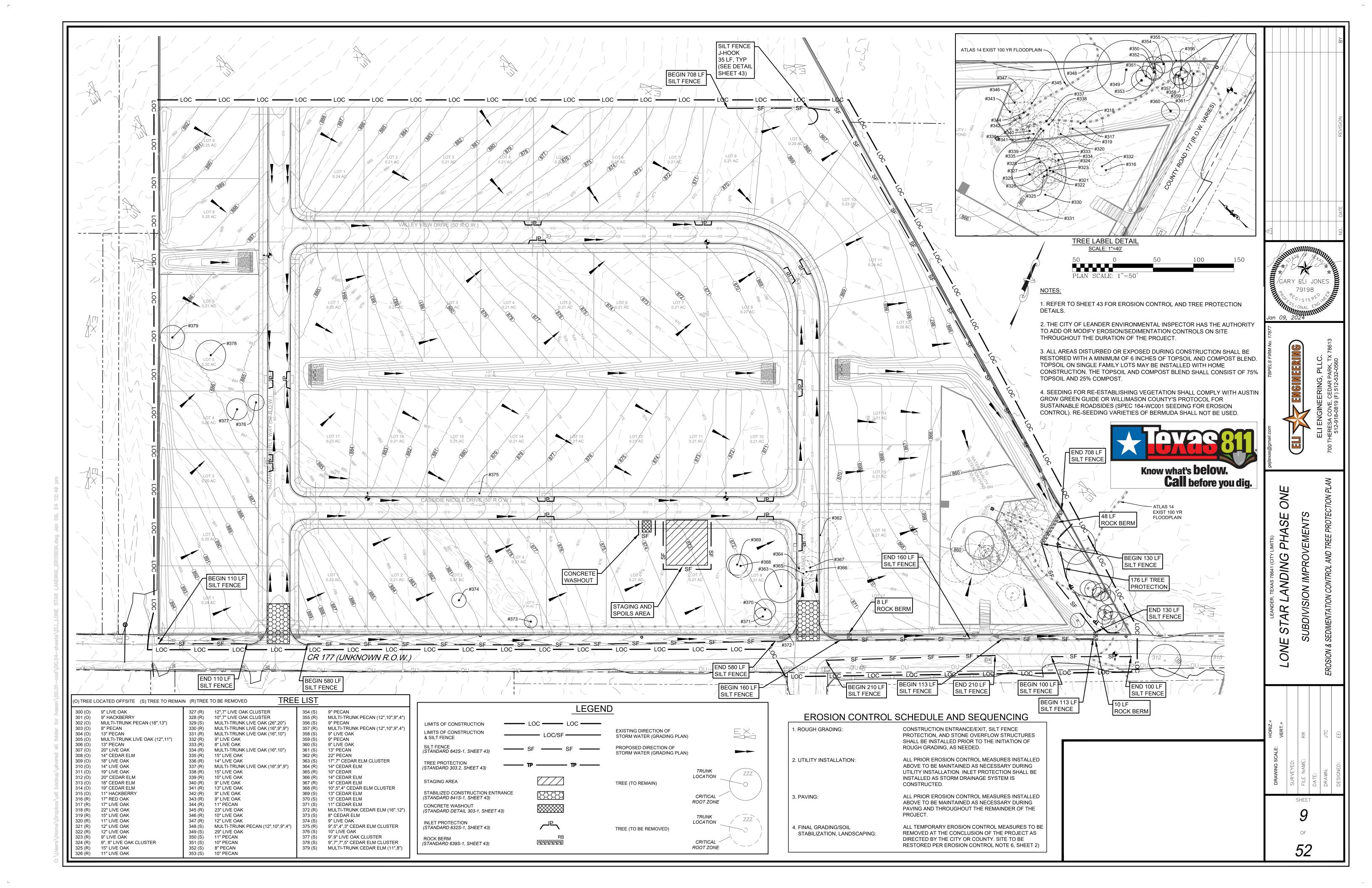
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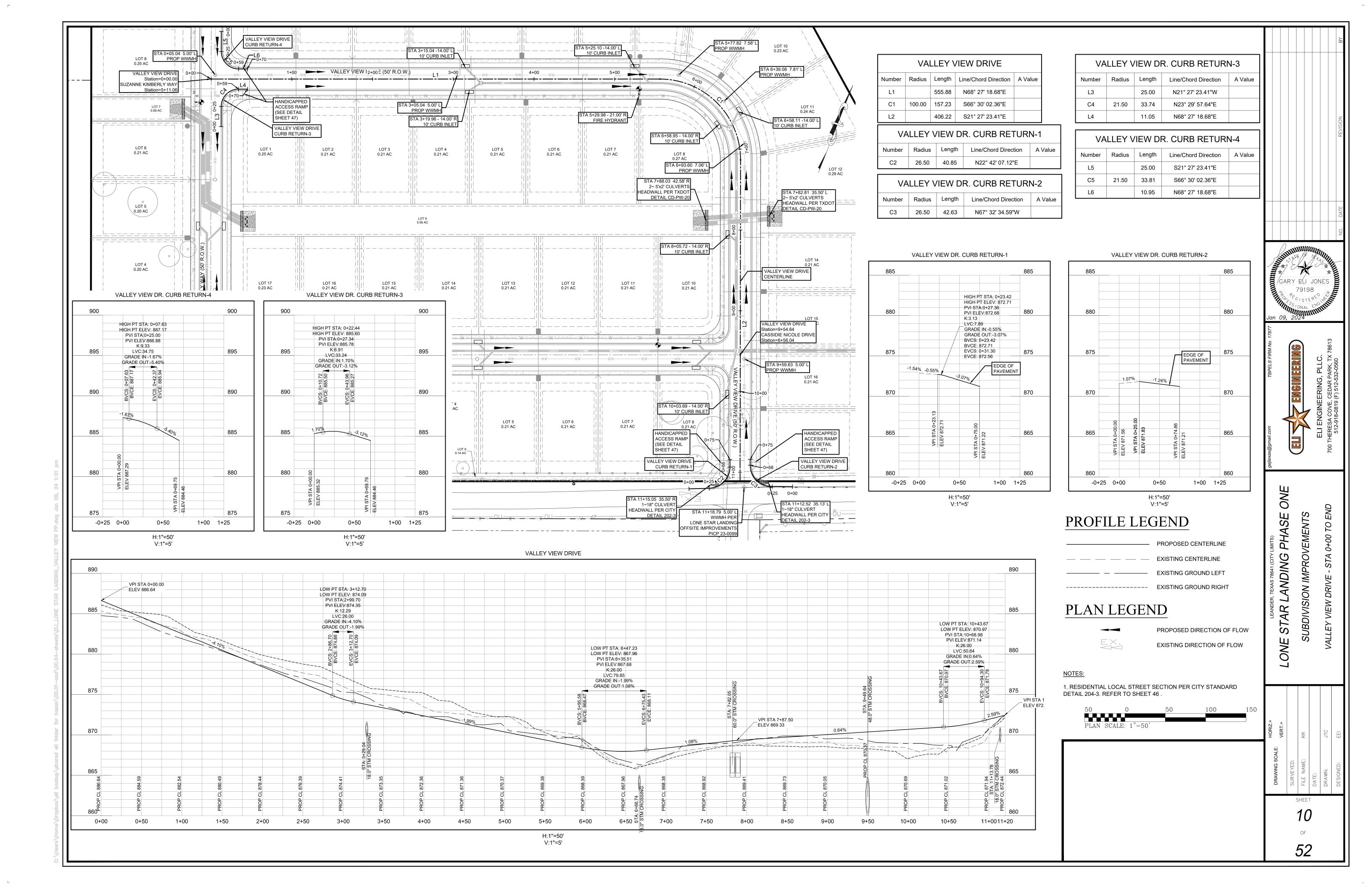
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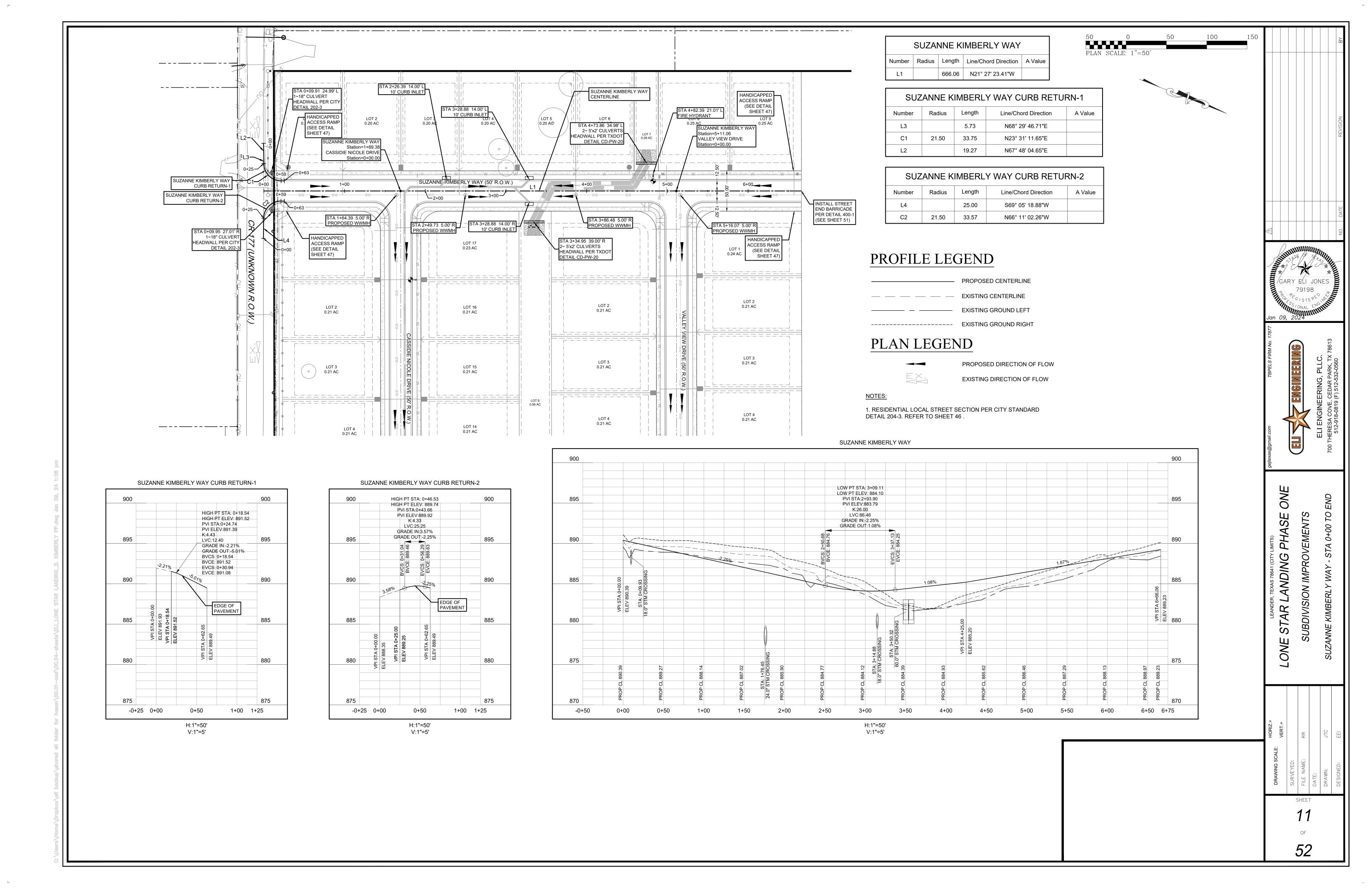


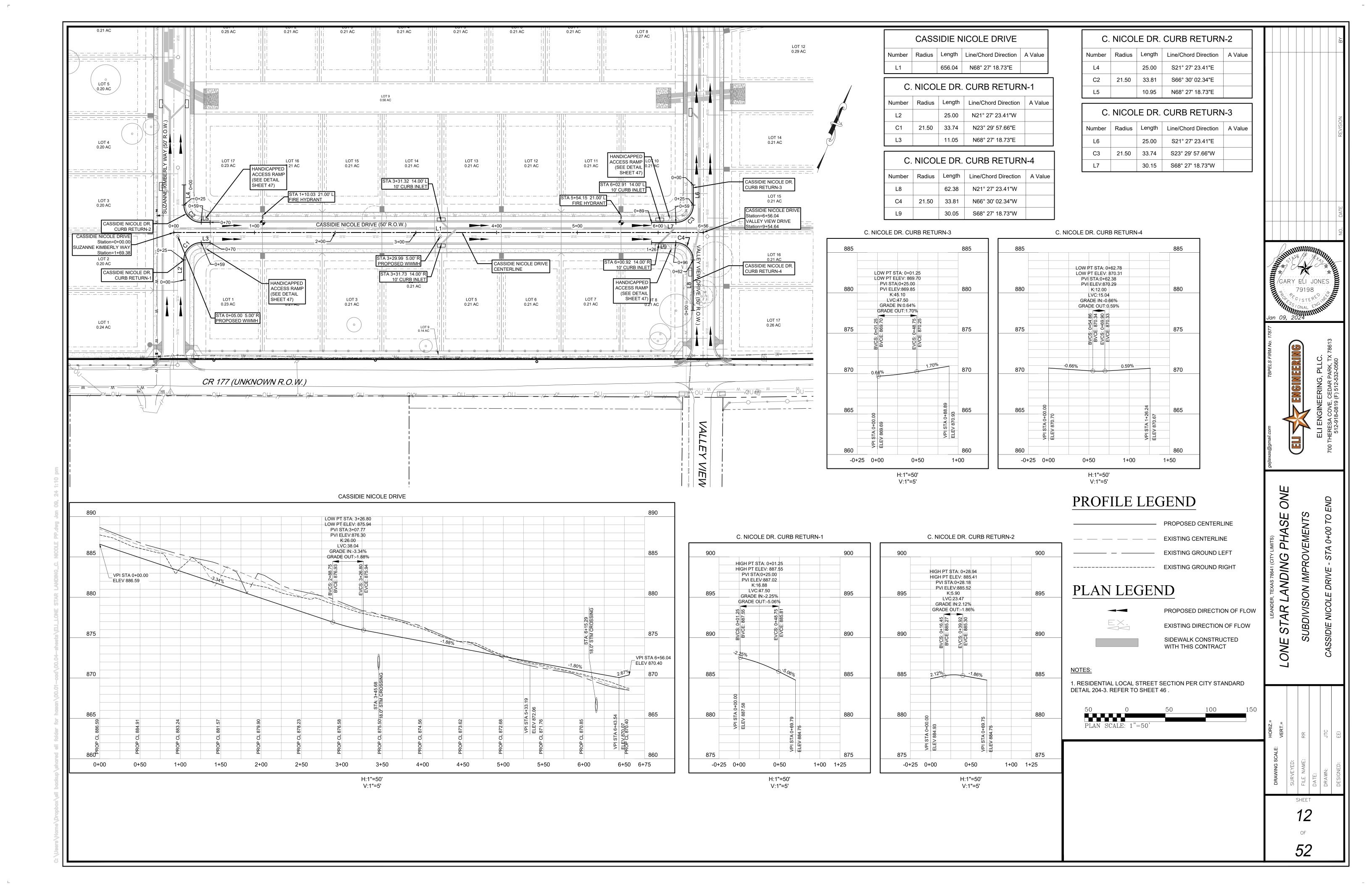


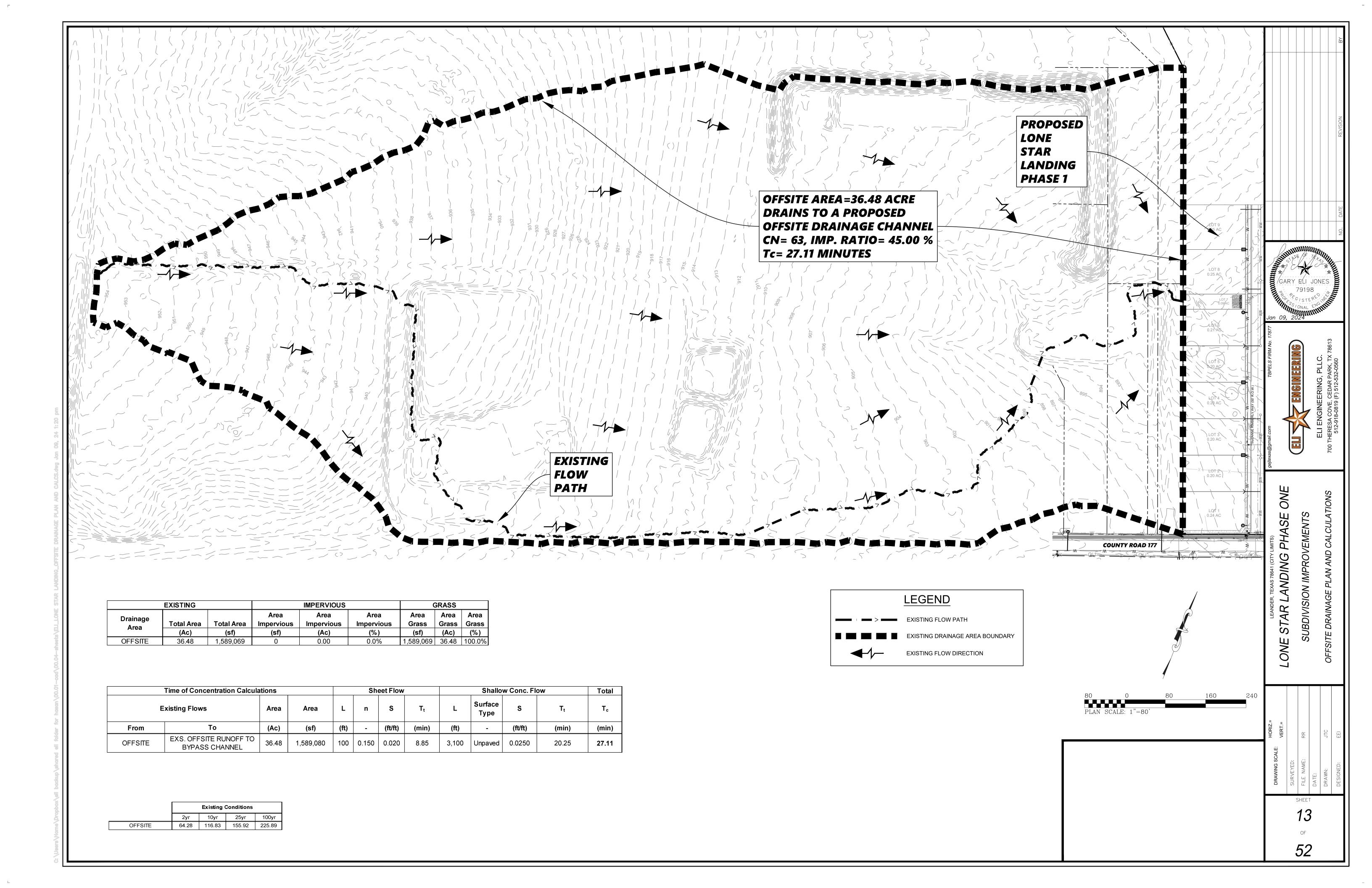


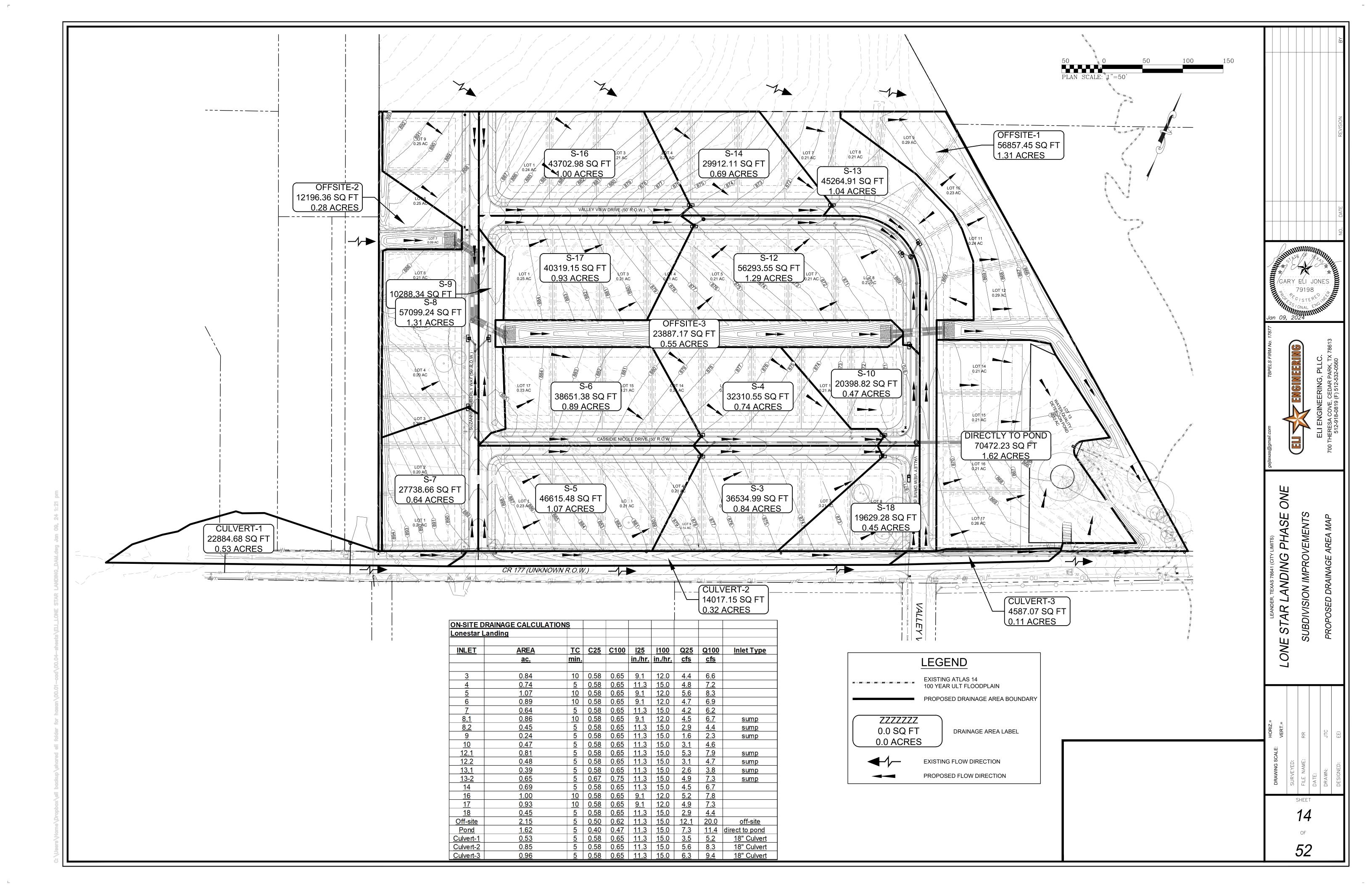


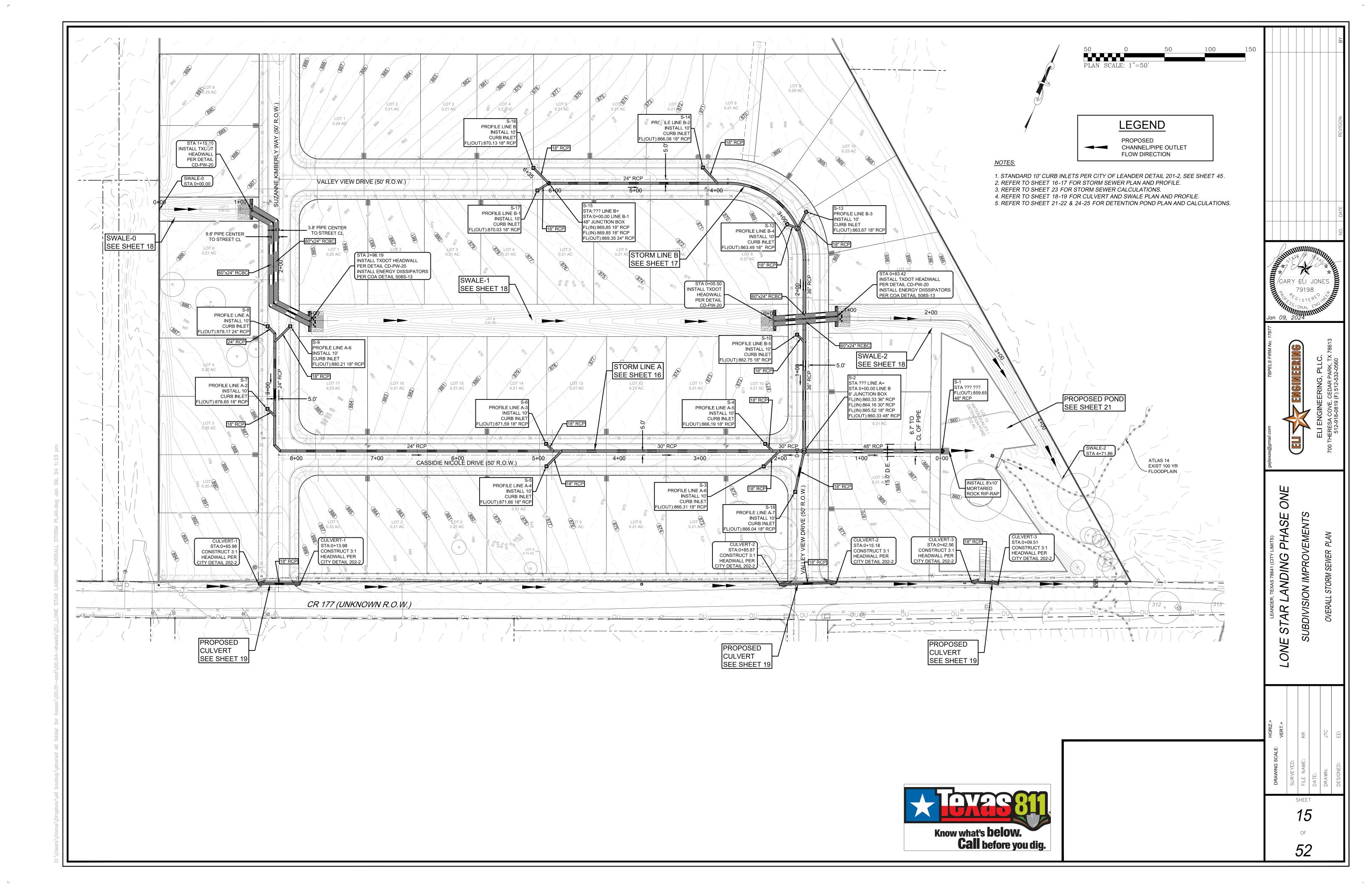


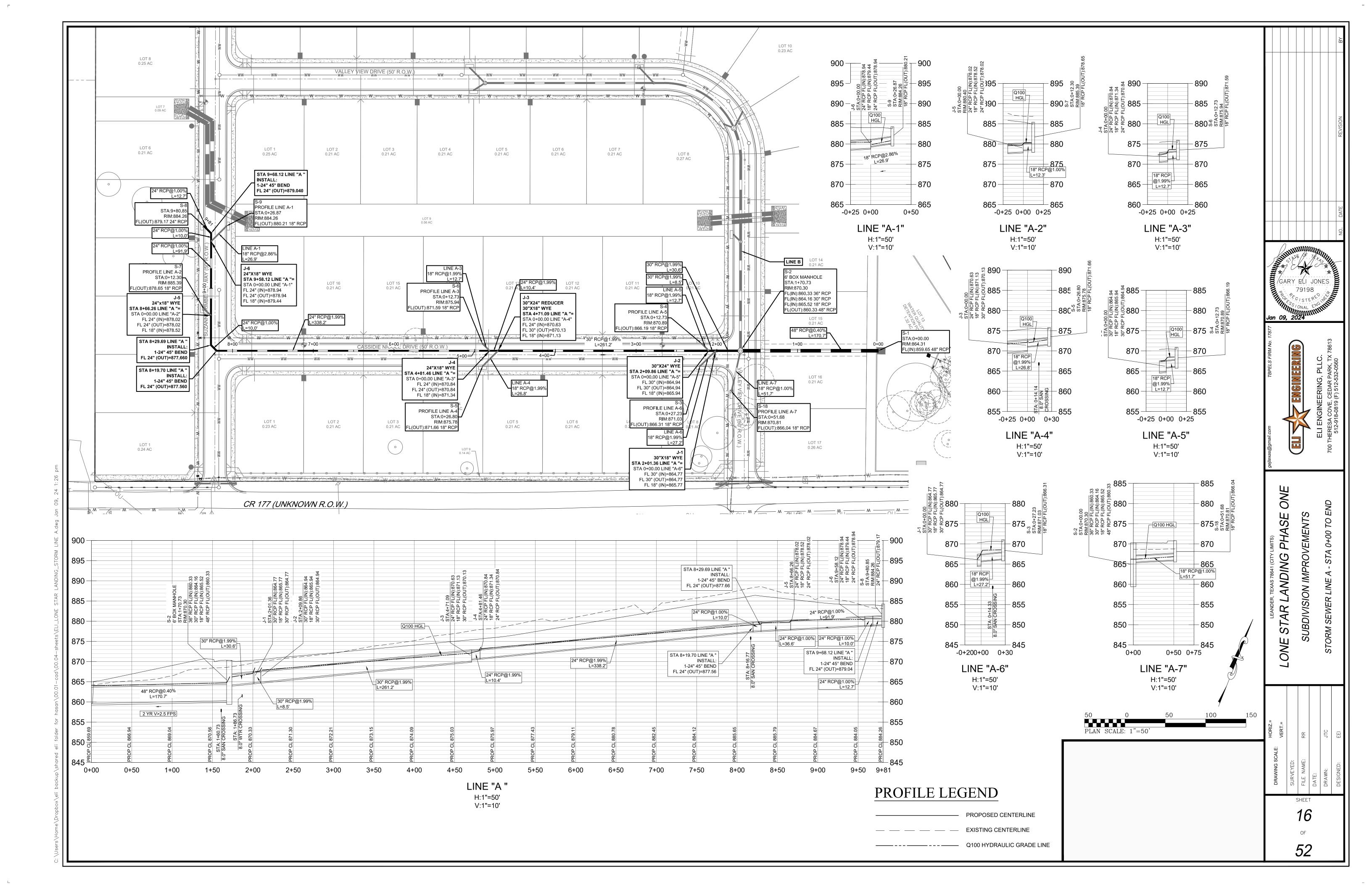


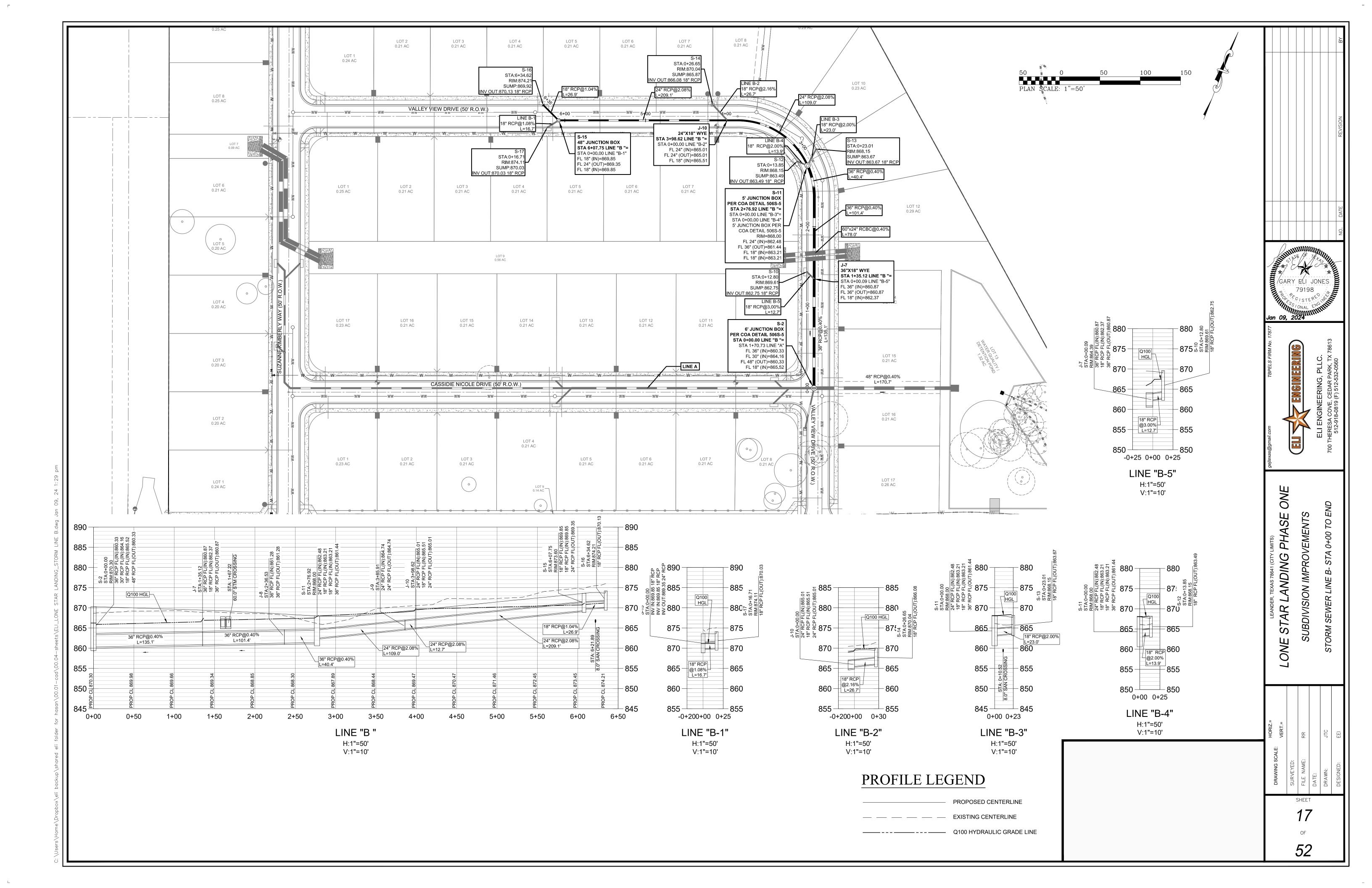


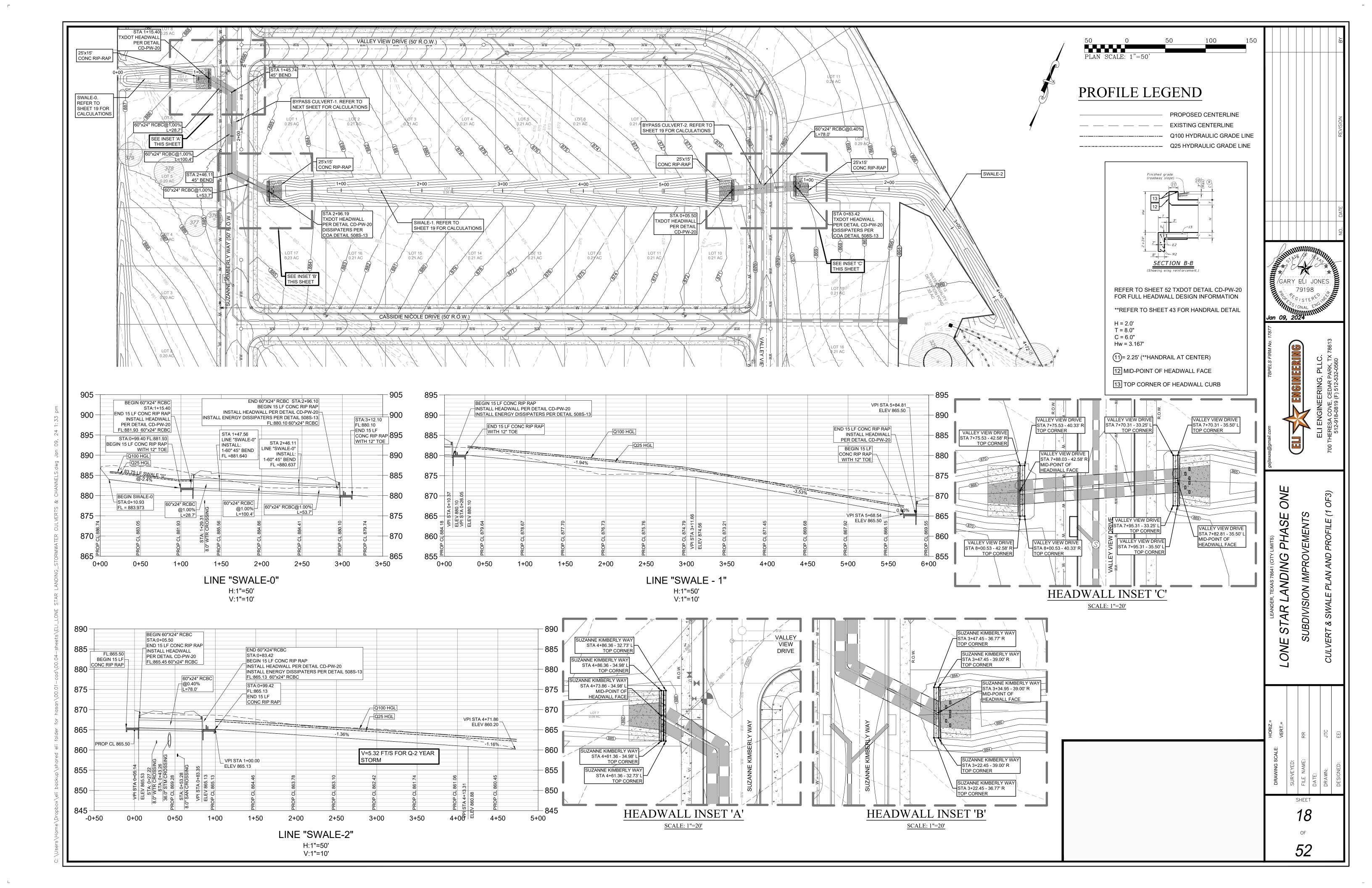


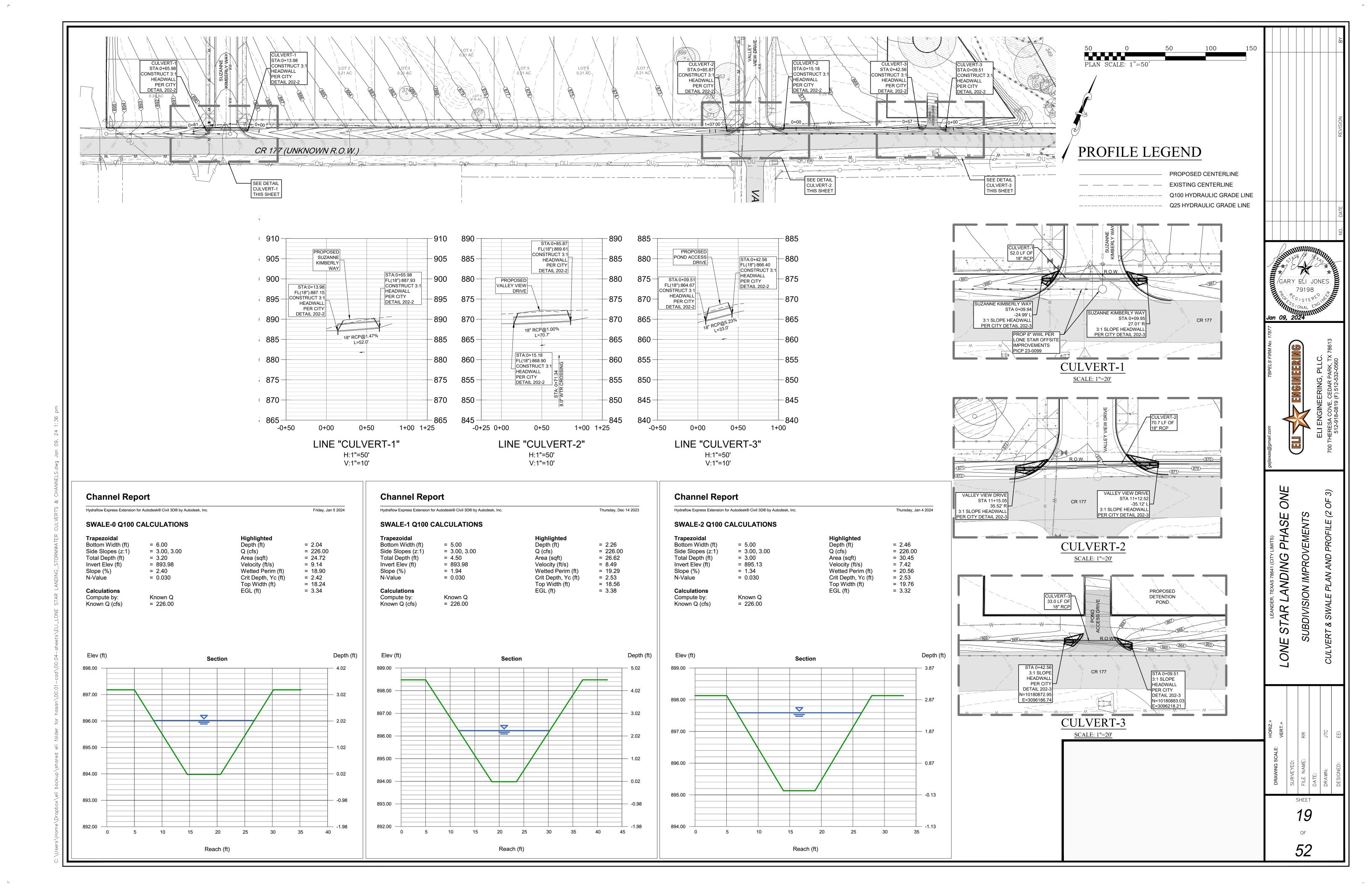








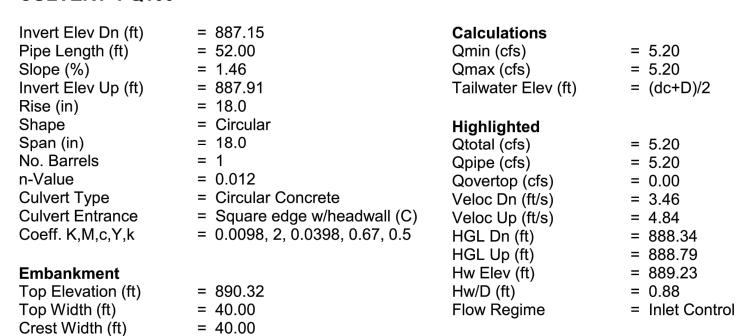


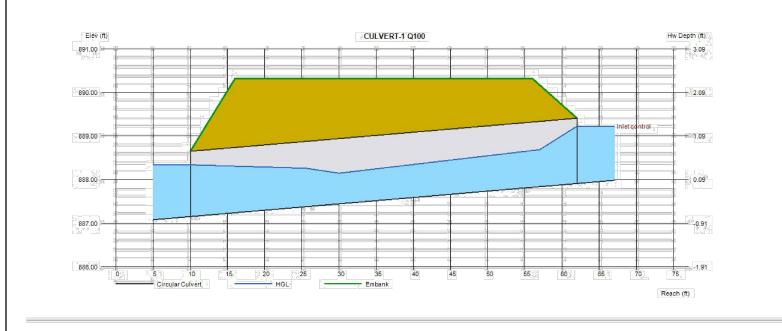


# **Culvert Report**

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Jan 5 2024

### **CULVERT-1 Q100**





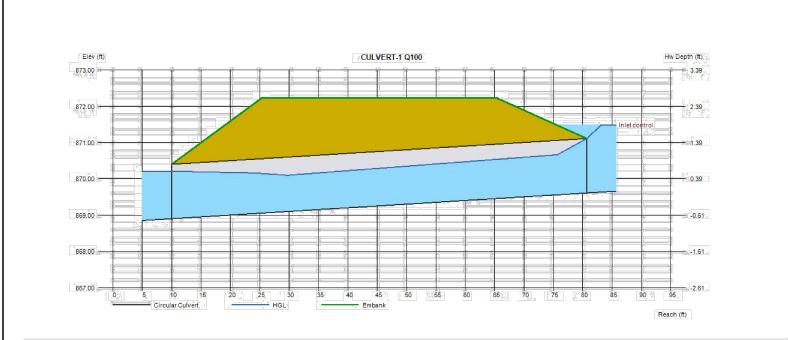
# **Culvert Report**

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Jan 5 2024

### **CULVERT-2 Q100**

Crest Width (ft)

nvert Elev Dn (ft) Pipe Length (ft) Blope (%) nvert Elev Up (ft) Rise (in)	= 868.90 = 70.70 = 1.00 = 869.61 = 18.0	Calculations Qmin (cfs) Qmax (cfs) Tailwater Elev (ft)	= 8.30 = 8.30 = (dc+D)/2
Shape	= Circular	Highlighted	
Span (in) No. Barrels No. Barrels No. Value Culvert Type Culvert Entrance Coeff. K,M,c,Y,k	= 18.0 = 1 = 0.012 = Circular Concrete = Square edge w/headwall (C) = 0.0098, 2, 0.0398, 0.67, 0.5	Qtotal (cfs) Qpipe (cfs) Qovertop (cfs) Veloc Dn (ft/s) Veloc Up (ft/s) HGL Dn (ft) HGL Up (ft)	= 8.30 = 8.30 = 0.00 = 5.08 = 5.89 = 870.21 = 870.72
mbankment	070.00	Hw Elev (ft)	= 871.49
op Elevation (ft)	= 872.23	Hw/D (ft)	= 1.25
op Width (ft) Crest Width (ft)	= 40.00 = 40.00	Flow Regime	= Inlet Control



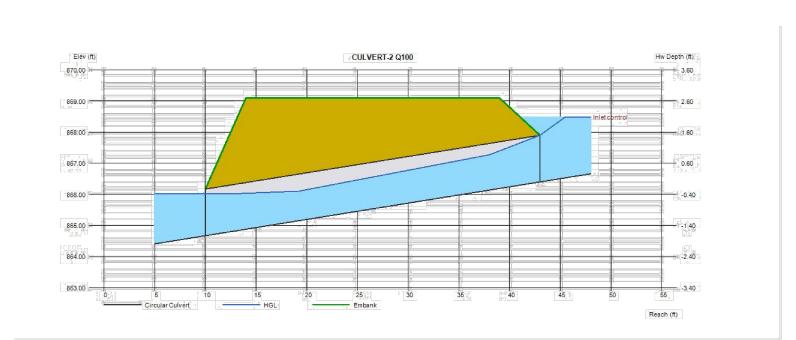
# **Culvert Report**

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Friday, Jan 5 2024

### CULVERT-3 Q100

Invert Elev Dn (ft)	= 864.67	Calculations	
Pipe Length (ft)	= 33.00	Qmin (cfs)	= 9.40
Slope (%)	= 5.24	Qmax (cfs)	= 9.40
Invert Èlev Up (ft)	= 866.40	Tailwater Élev (ft)	= (dc+D)/2
Rise (in)	= 18.0	( )	,
Shape	= Circular	Highlighted	
Span (in)	= 18.0	Qtotal (cfs)	= 9.40
No. Barrels	= 1	Qpipe (cfs)	= 9.40
n-Value	= 0.012	Qovertop (cfs)	= 0.00
Culvert Type	= Circular Concrete	Veloc Dn (ft/s)	= 5.64
Culvert Entrance	<ul><li>Square edge w/headwall (C)</li></ul>	Veloc Up (ft/s)	= 6.28
Coeff. K,M,c,Y,k	= 0.0098, 2, 0.0398, 0.67, 0.5	HGL Dn (ft)	= 866.01
		HGL Up (ft)	= 867.58
Embankment		Hw Elev (ft)	= 868.49
Top Elevation (ft)	= 869.10	Hw/D (ft)	= 1.39
		` '	

- 009.10
= 25.00
= 25.00



Flow Regime

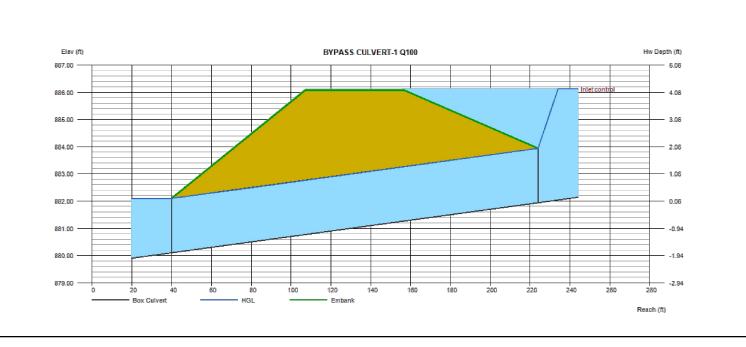
= Inlet Control

# **Culvert Report**

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Nov 6 2023

# **BYPASS CULVERT-1 Q100**

Invert Elev Dn (ft) Pipe Length (ft) Slope (%) Invert Elev Up (ft) Rise (in)	= 880.10 = 184.00 = 1.00 = 881.94 = 24.0	Calculations Qmin (cfs) Qmax (cfs) Tailwater Elev (ft)	= 156.00 = 226.00 = (dc+D)/2
Shape	= Box	Highlighted	
Span (in)	= 60.0	Qtotal (cfs)	= 226.00
No. Barrels	= 2	Qpipe (cfs)	= 224.27
n-Value	= 0.012	Qovertop (cfs)	= 1.73
Culvert Type	= Rectagular Concrete	Veloc Dn (ft/s)	= 11.21
Culvert Entrance	= Tapered inlet throat	Veloc Up (ft/s)	= 11.21
Coeff. K,M,c,Y,k	= 0.475, 0.667, 0.0179, 0.97, 0.2	HGL Dn (ft)	= 882.10
		HGL Up (ft)	= 883.94
Embankment		Hw Elev (ft)	= 886.12
Top Elevation (ft)	= 886.07	Hw/D (ft)	= 2.09
Top Width (ft) Crest Width (ft)	= 50.00 = 50.00	Flow Regime	= Inlet Contro



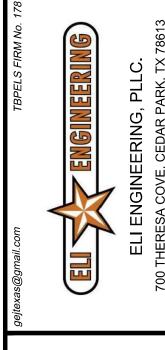
# **Culvert Report**

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Nov 6 2023

# **BYPASS CULVERT-2 Q100**

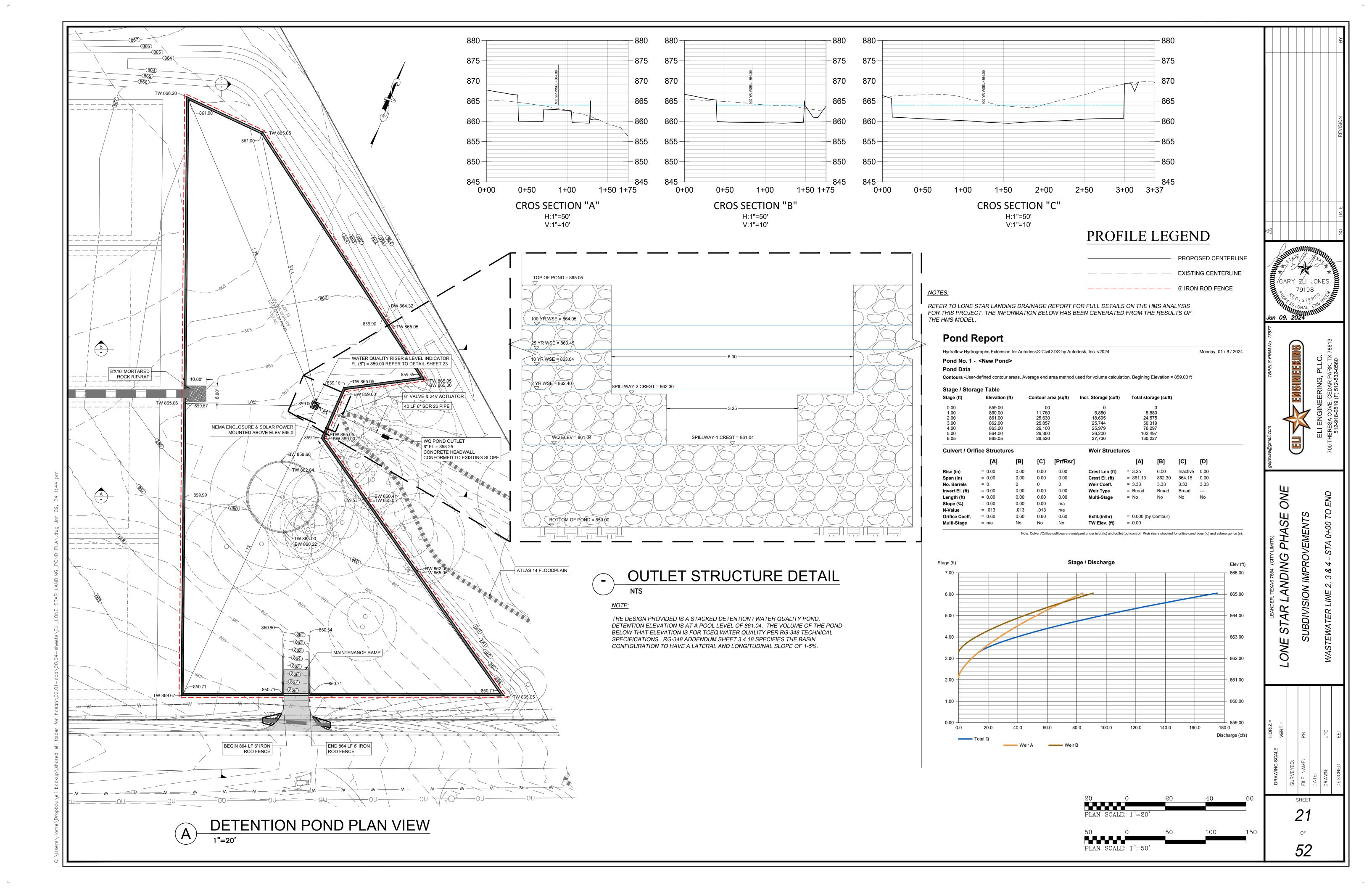
Invert Elev Dn (ft) Pipe Length (ft) Slope (%) Invert Elev Up (ft) Rise (in)	= 865.13 = 78.00 = 0.40 = 865.44 = 24.0	Calculations Qmin (cfs) Qmax (cfs) Tailwater Elev (ft)	= 156.00 = 226.00 = (dc+D)/2
Shape Span (in) No. Barrels n-Value Culvert Type Culvert Entrance Coeff. K,M,c,Y,k	= Box = 60.0 = 2 = 0.012 = Rectagular Concrete = Tapered inlet throat = 0.475, 0.667, 0.0179, 0.97, 0.2	Highlighted Qtotal (cfs) Qpipe (cfs) Qovertop (cfs) Veloc Dn (ft/s) Veloc Up (ft/s) HGL Dn (ft) HGL Up (ft)	= 226.00 = 226.00 = 0.00 = 11.30 = 11.30 = 867.13 = 867.44
Embankment Top Elevation (ft) Top Width (ft) Crest Width (ft)	= 869.66 = 50.00 = 50.00	Hw Elev (ft) Hw/D (ft) Flow Regime	= 869.66 = 2.11 = Inlet Control

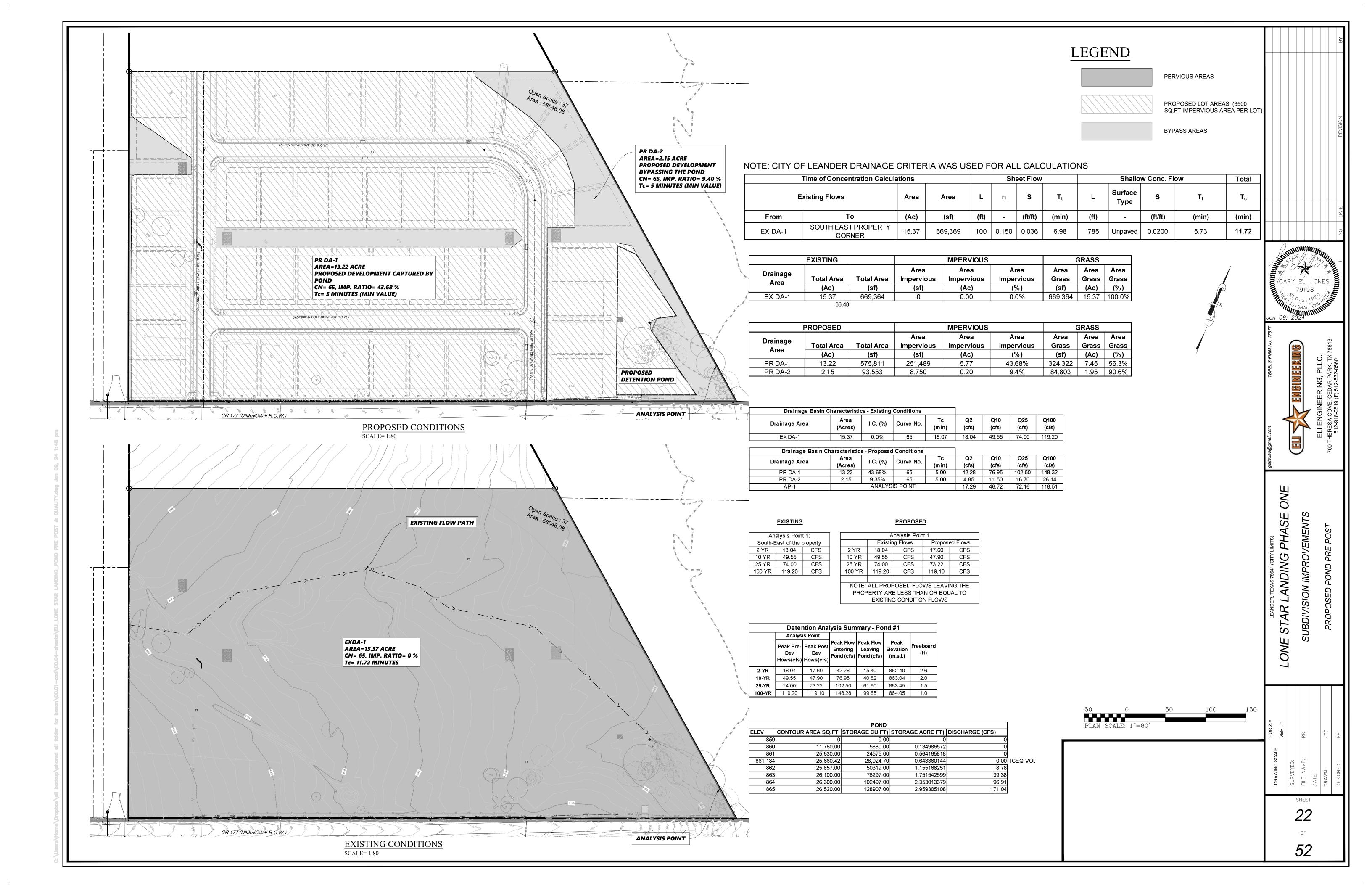
Elev (ft)						BYPASS CUL	VERT-2 Q100	)				H	lw Dep	th (ft)
870.00													$\Box$	4.56
											-In	et control	-	
889.00				/						·	/ =		$\vdash$	3.58
											/ -		+	
868.00														2.56
867.00													<u> </u>	1.56
007.00											_		-	1.00
866.00													_	0.56
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865.00													1—	-0.44
864.00	0	10	20	30	40	50	50	70	80	90 1	100	110	120	-1.44

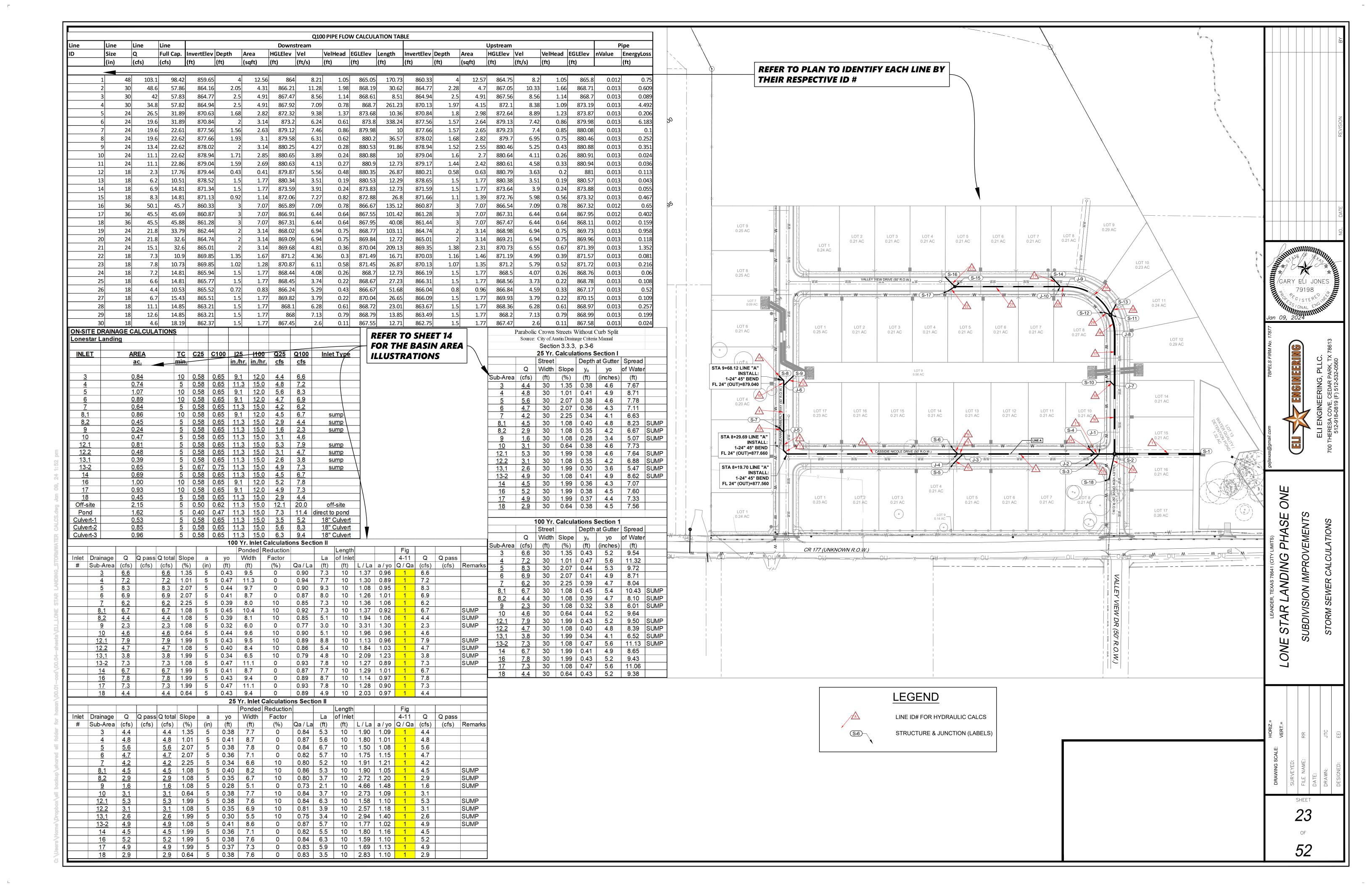


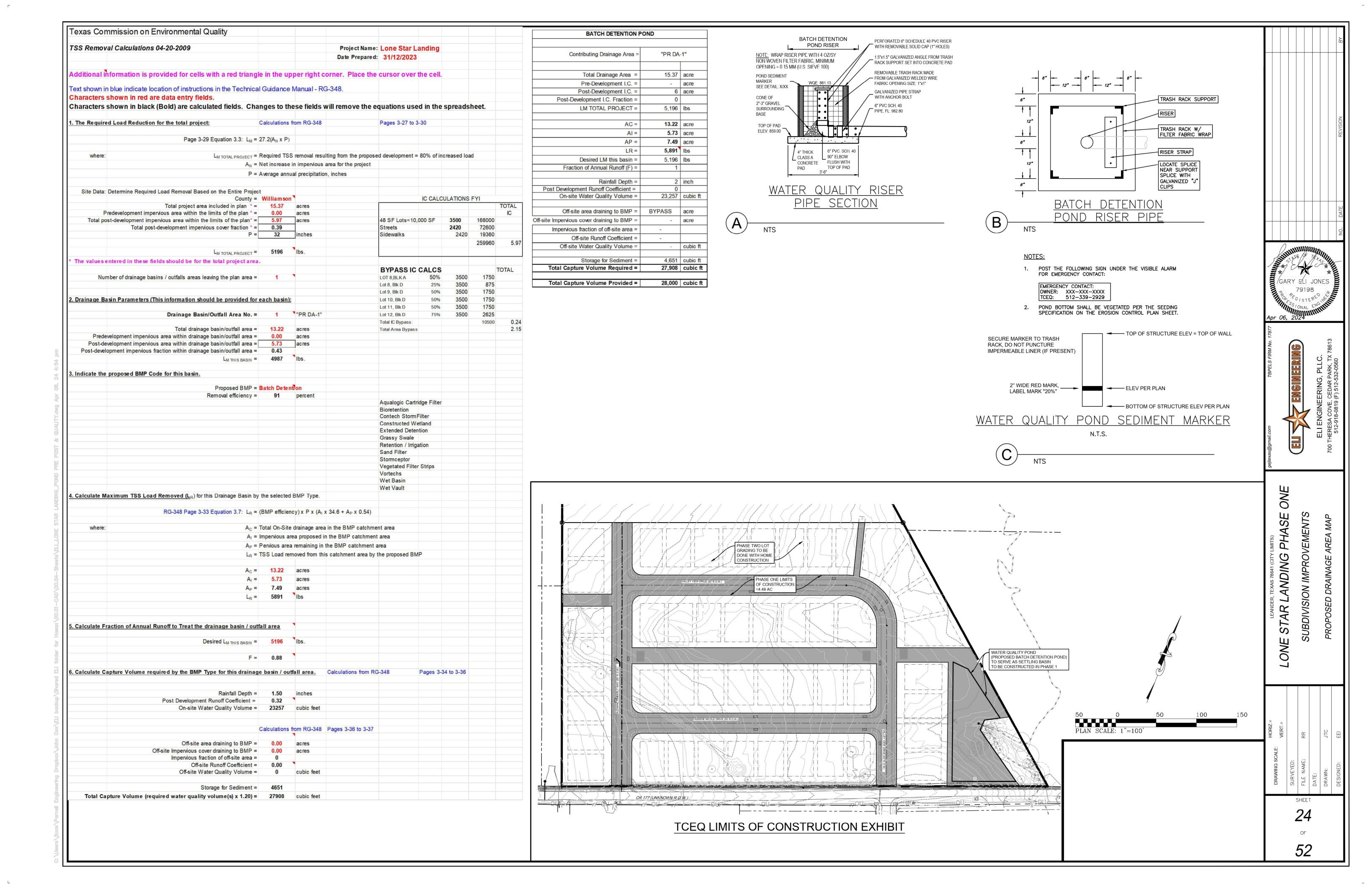
LONE STAR LANDING

3)

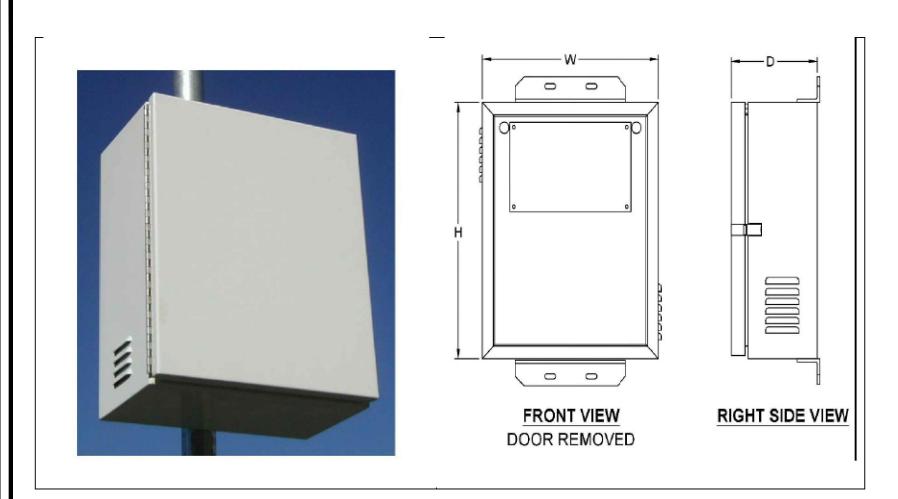








### **Ground Mount Controller and Battery Enclosure**



- Standard boxes are fabricated from .125" thick 5052--H32 aluminum
- Heavy--duty stainless steel continuous
- Heavy--duty stainless steel continuous hinge
- Seams are continuously welded and then sanded smooth

Adjustable tension stainless steel padlock hasp

**Batch Valve Programmable Logic Flow Chart** 

Substantial RE causes water

to fill pond and activates water sensor switch (WSS)

vhich initiates 12-hour batch

etention timer to hold water

in pond, valve position

remains in closed position

After 12-hour detention

time passes, BV opens

to drain pond, pond must drain in 48 hours

or less

Once WSS detects no water

n pond, valve remains open

for two additional hours to allow any remaining shallow water to be discharged

After 14 hours the WSS has detected water in pond, BV closes and goes back into standby mode until next RE

atch detention cycle complete

Batch Valve (BV) in closed position, in

standby mode waiting for rain event (RE)

- · Removable component mounting plate

- · Standard finish is a bright white polyester powder--coat inside and out
- Two 7/8" diameter wire holes
- Built to NEMA 3R specifications
- Filtered or screened ventilation louvers
- Hinged front door with PORON door gasket

Solar Panel

SunSaver - 10L Solar Charge

Controller

Fuse

 $-\infty$ 

Earth Ground

Fuse

 $-\infty$ 

-SO-

Supplied with u--bolts (when pole specified)

Small RE causes no

water to fill pond

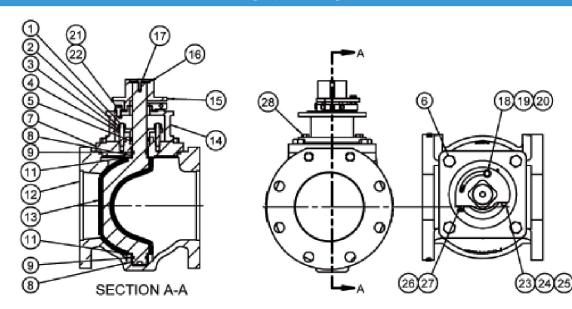
system remains in

standby mode until

next RE

# **800 SERIES MATERIAL LIST**

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



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

# 800 SERIES Cv Data (GPM@1PSI)

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

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

2" - 6" plug

valve and 24V

motor actuator

External

Indicator/

Alarm

Circuit Block Diagram

Fuse

Rainwater

Automation Logic Controller

**~~** 

Step Down

DC-DC Converter

P4		P5		P6	
3500"lbs/400Nm		4400"lbs/500Nm		5750"lbs	s/650Nm
12vac/vdc	24vac/vdc	12vac/vdc	24vac/vdc	12vac/vdc	24vac/vdc
16.1A	9.2A	13.5A	9.0A	12.5A	8.5A
16.1A	8.5A	14.1A	7.5A	12.3A	7.0A
		DC Bru	sh Type		
16	sec	22	sec	28	sec
16	sec	22	sec	28	sec
		75	%		
		1200 p	er hour		
		47lbs	/22kg		
	ISC	05211 F1	0 8pt 35r	mm	
		(2) 3/4	" NPT		
		12-1	l6ga		
		NEMA	4 4/4X		
		7.6" Hai	ndwheel		
On/Off-Jog, Proportional					
Aluminum Alloy, Powder coated					
230°F/110°C Thermal F* Class					
*Totally Enclosed Non-Ventilated Motors					ors
-22°F to +125°F					
		-30°C to	+52°C		
	3500"lbs 12vac/vdc 16.1A 16.1A	3500"Ibs/400Nm 12vac/vdc 24vac/vdc 16.1A 9.2A 16.1A 8.5A  16 sec 16 sec  ISC  On Alumin 230°F	3500"lbs/400Nm 4400"lbs 12vac/vdc 24vac/vdc 12vac/vdc 16.1A 9.2A 13.5A 16.1A 8.5A 14.1A  DC Bru 16 sec 22: 16 sec 22: 16 sec 22: 1200 p 47lbs ISO5211 F1 (2) 3/4 12-1 NEM/A 7.6" Hai On/Off-Jog, Aluminum Alloy, 230°F/110°C TI *Totally Enclosed No	3500"lbs/400Nm	3500" bs/400Nm

PROMATION

ENGINEERING

Precision Actuation for Industry

### TCEQ CONSTRUCTION NOTES:

- A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
- THE NAME OF THE APPROVED PROJECT;
- THE ACTIVITY START DATE; AND
- THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
  - ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE
- 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 ONSITE.
- NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.

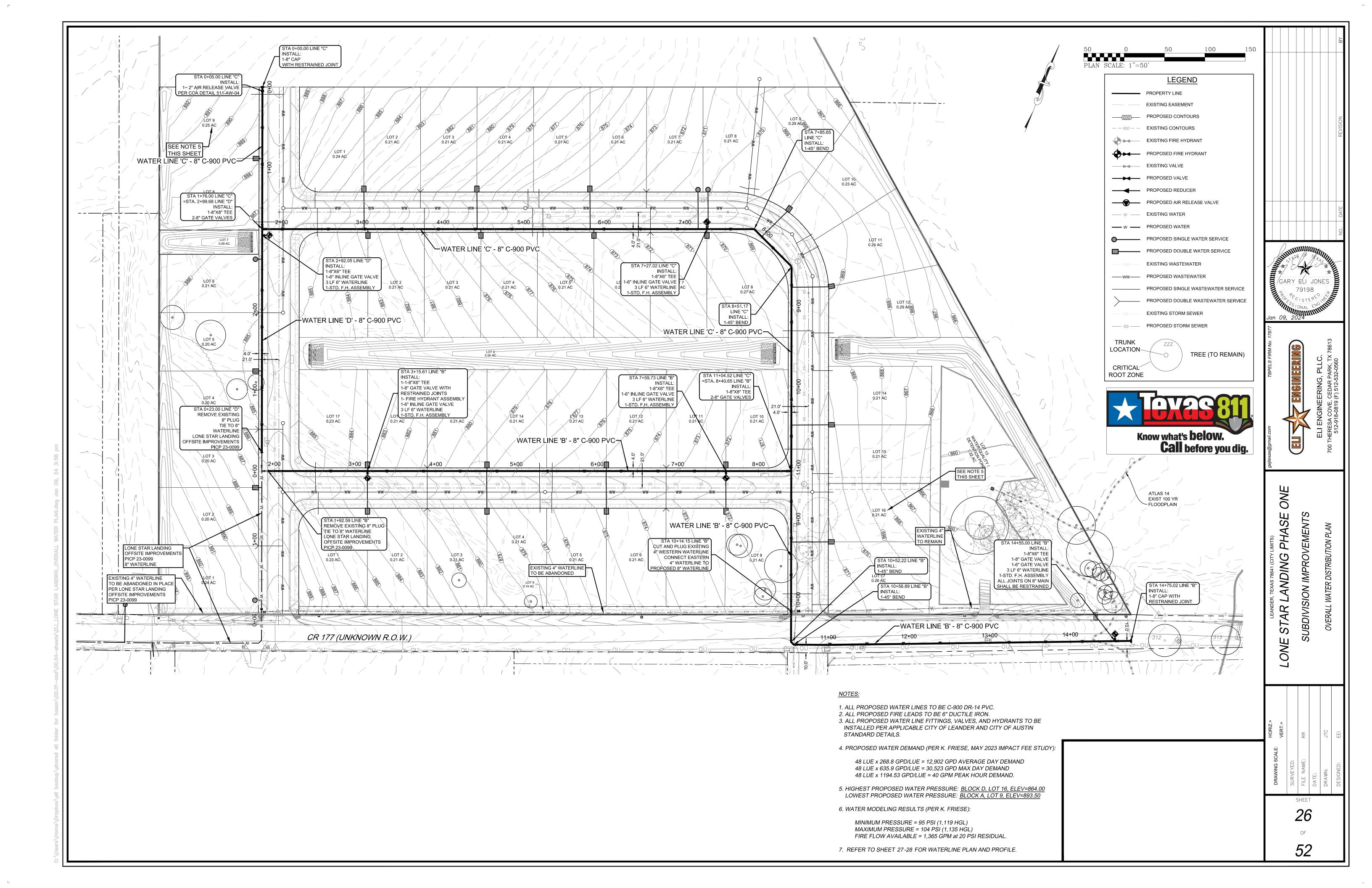
PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S)

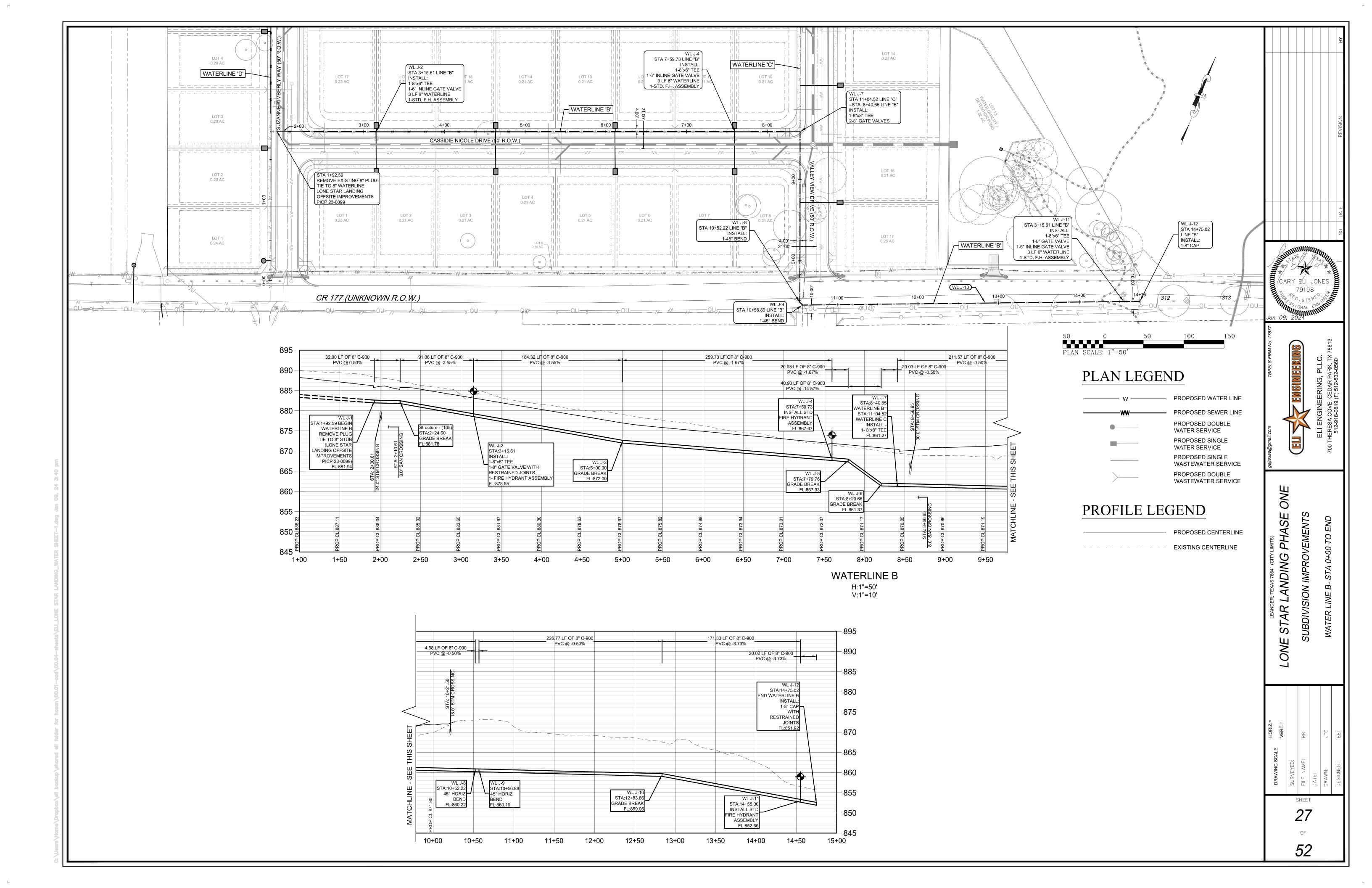
- CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES,
- SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
- ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
- IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS. SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE
- 10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST: - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR:
- THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE
- THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

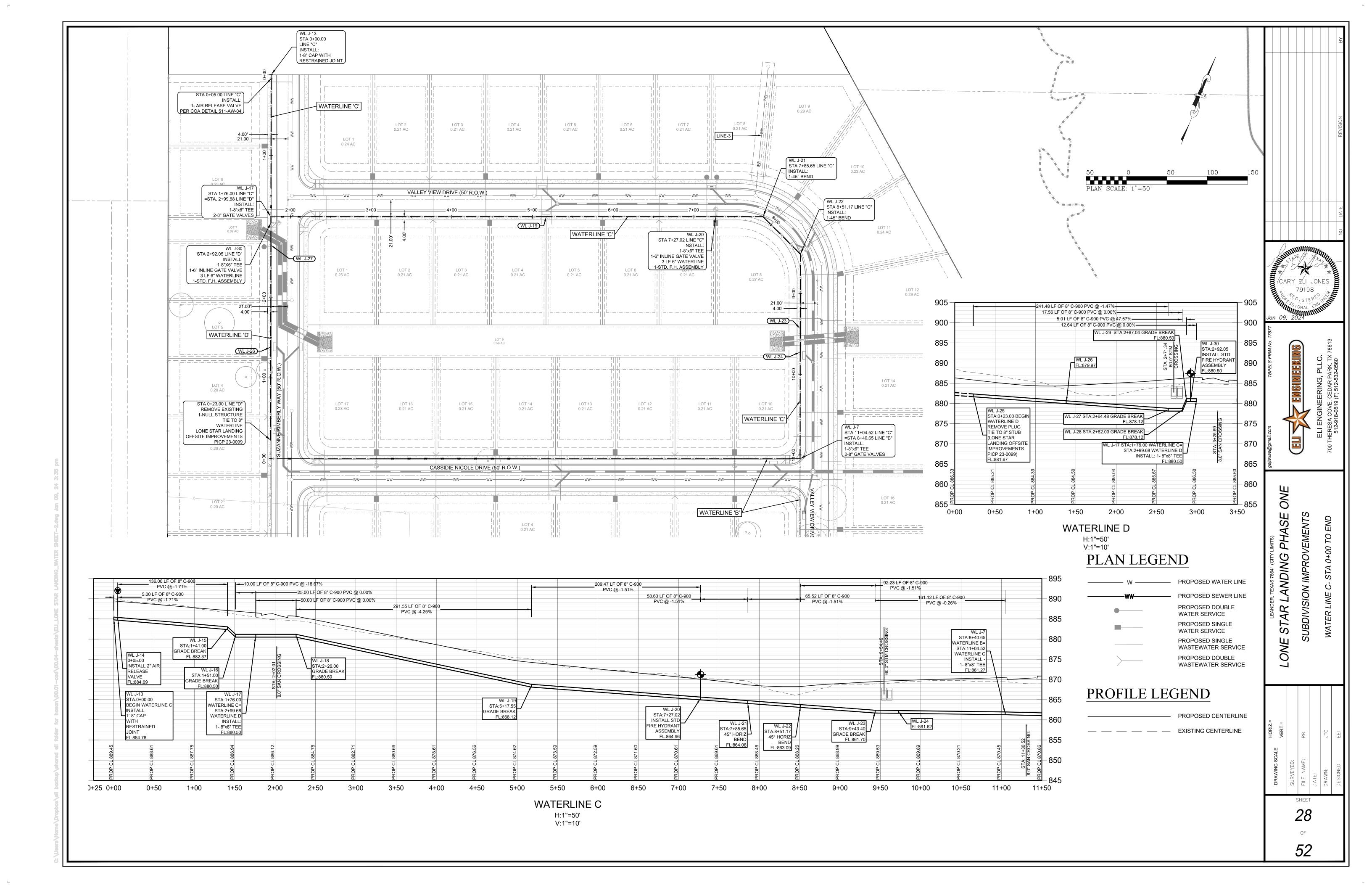
ZONE PLAN.

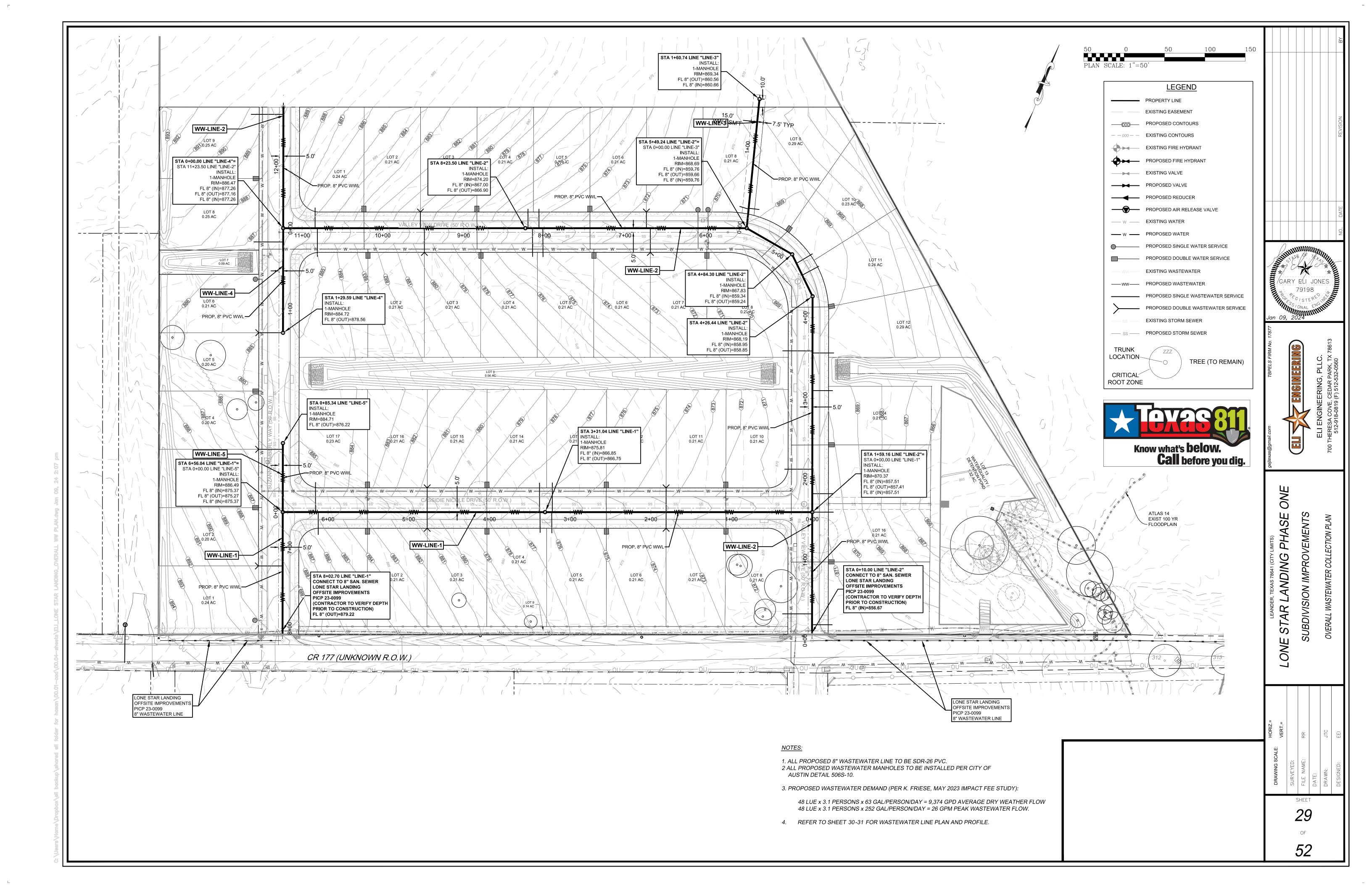
- 11. THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
- ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPS) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES,
- ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS
- ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING

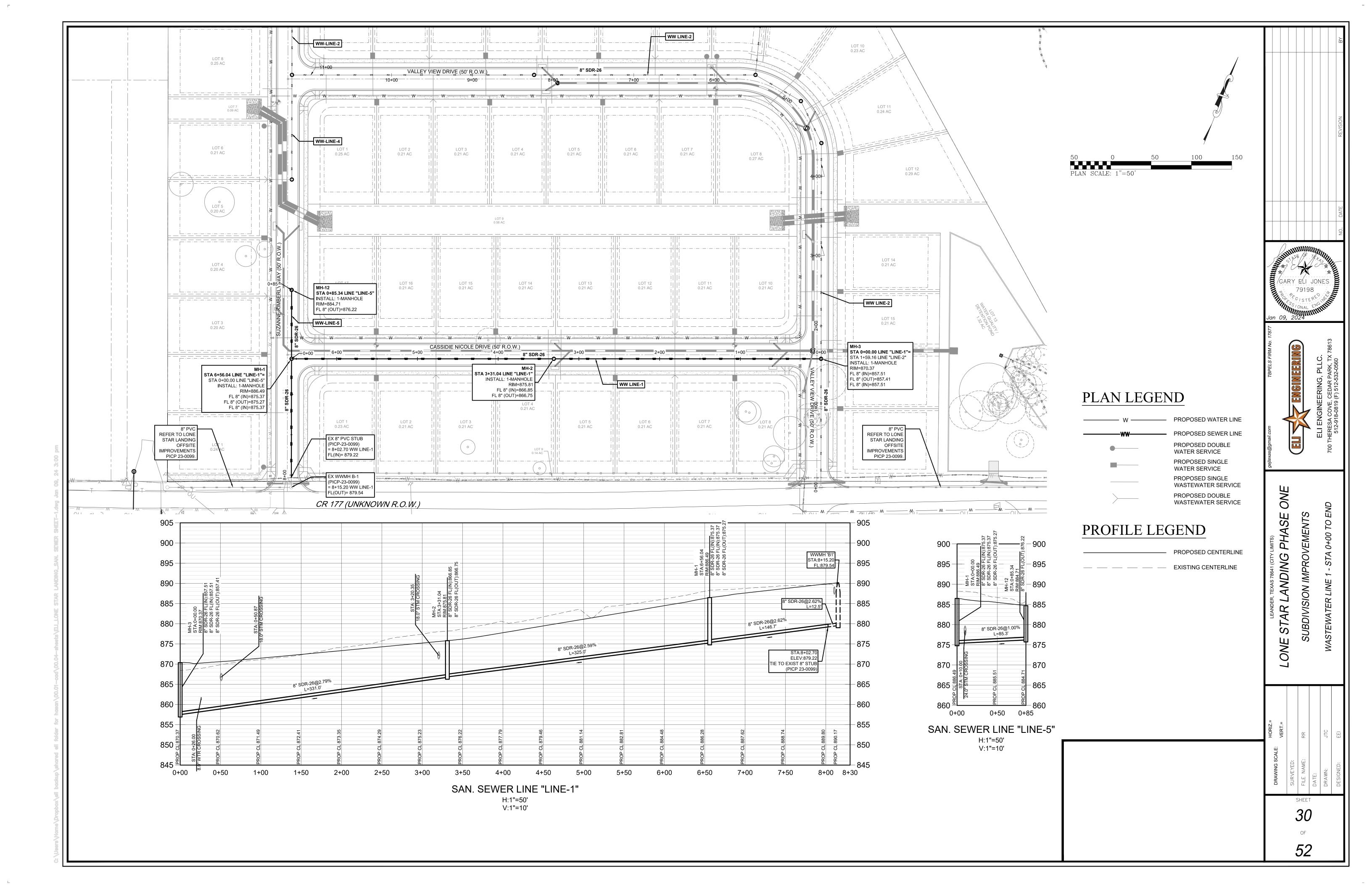
SUBDIVISION IMPROV STAR LONE

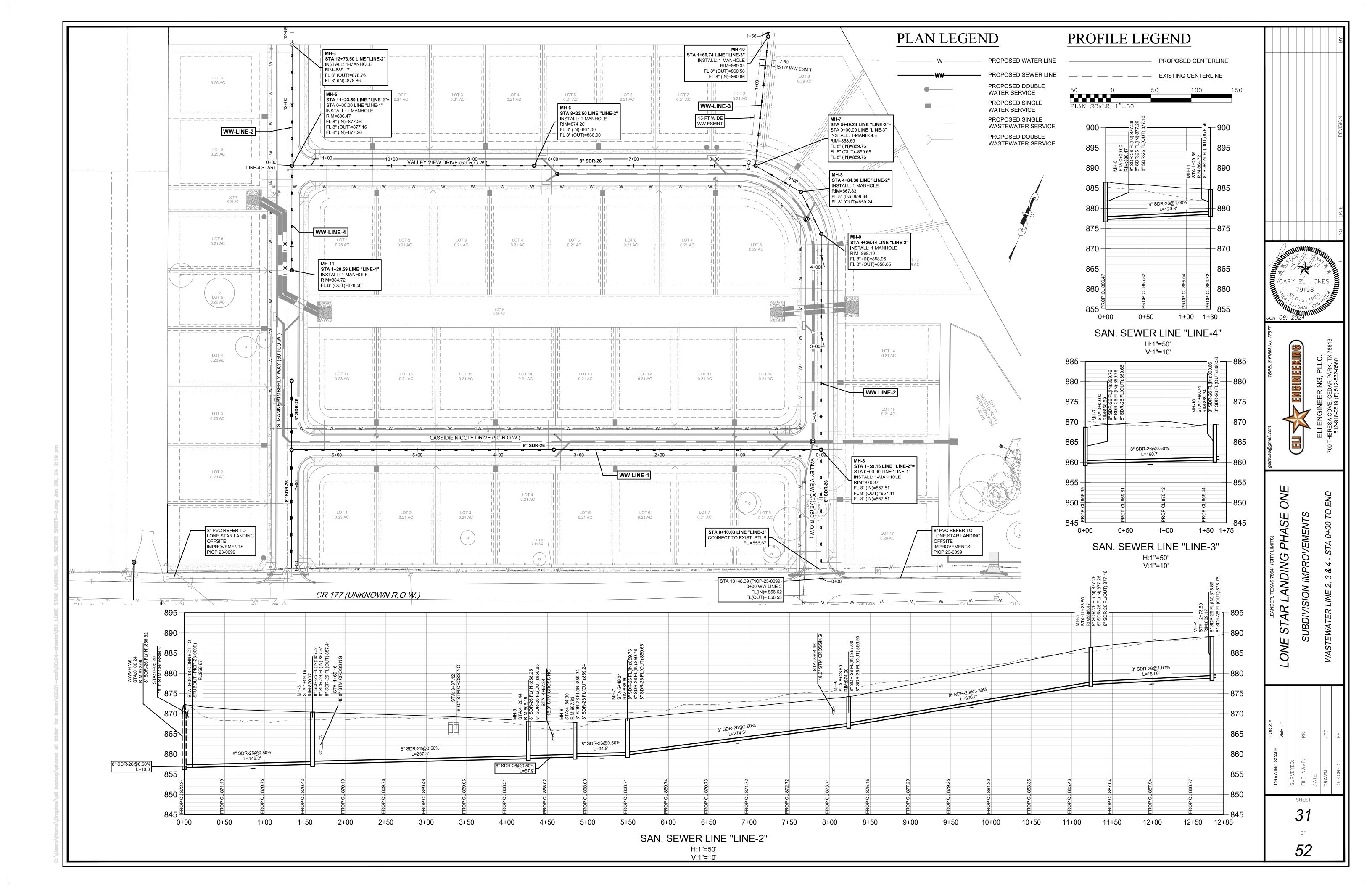


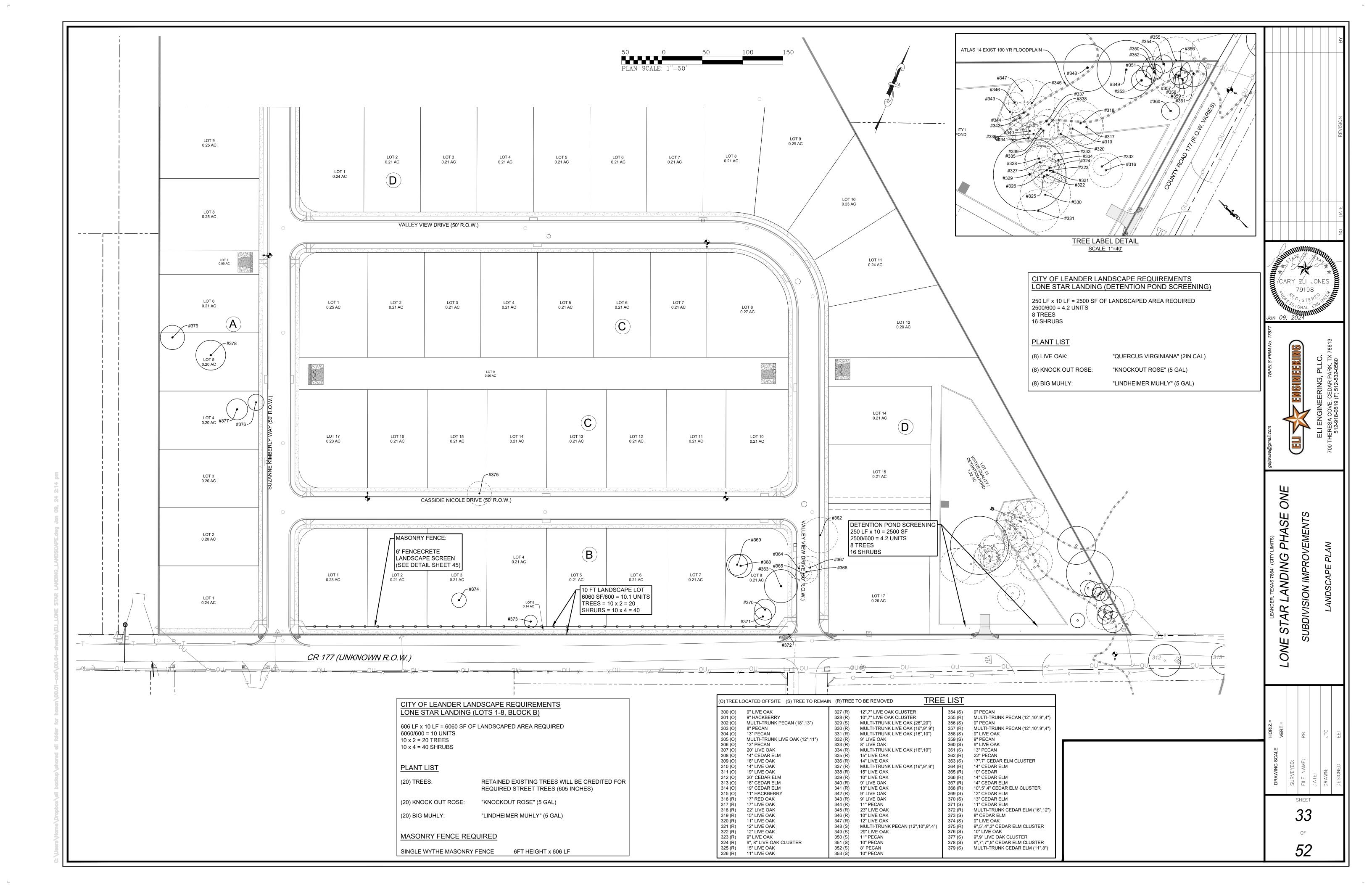


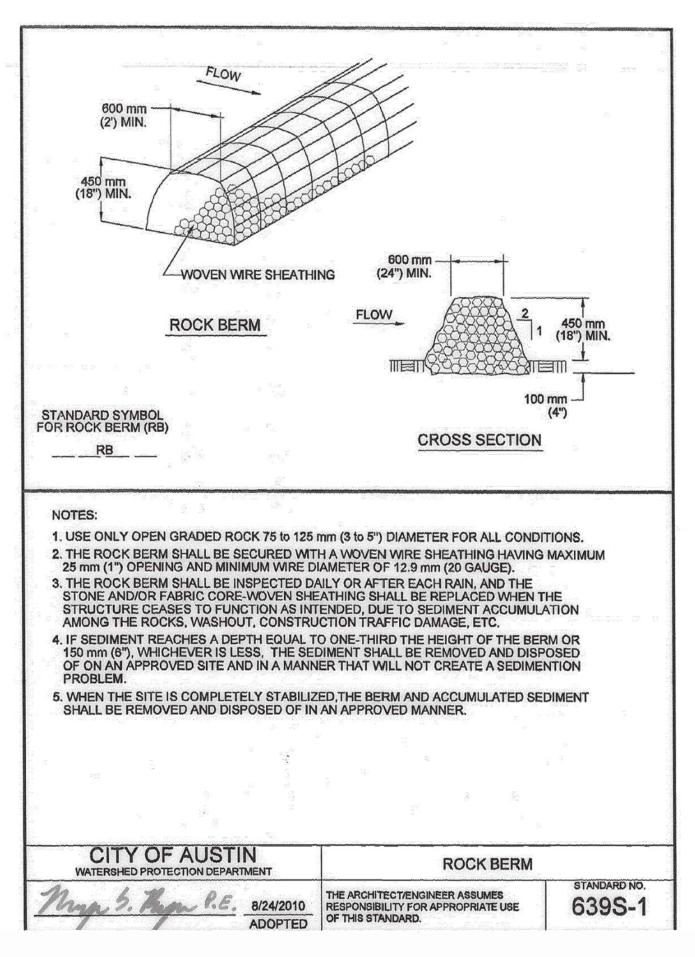


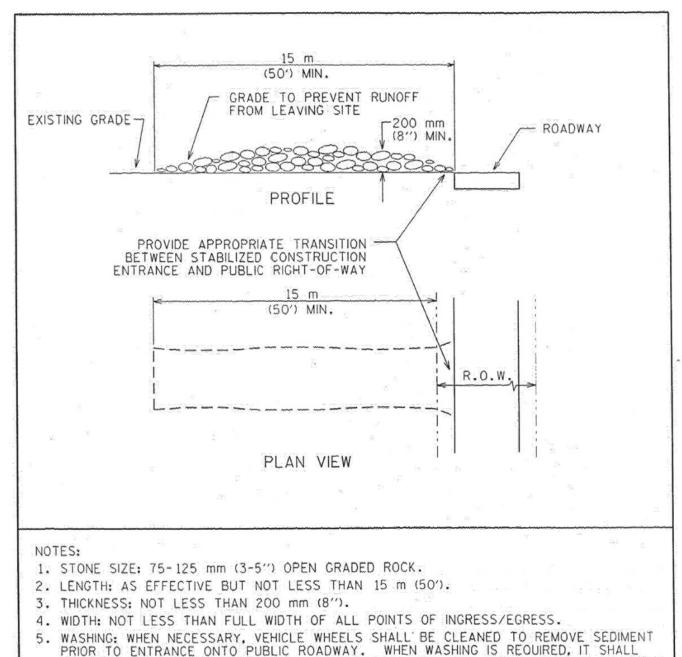












BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED

TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY

MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC

STABILIZED CONSTRUCTION ENTRANCE

HE ARCHITECT/ENGINEER ASSUMES

THIS STANDARD.

RESPONSIBILITY FOR APPROPRIATE USE

DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE

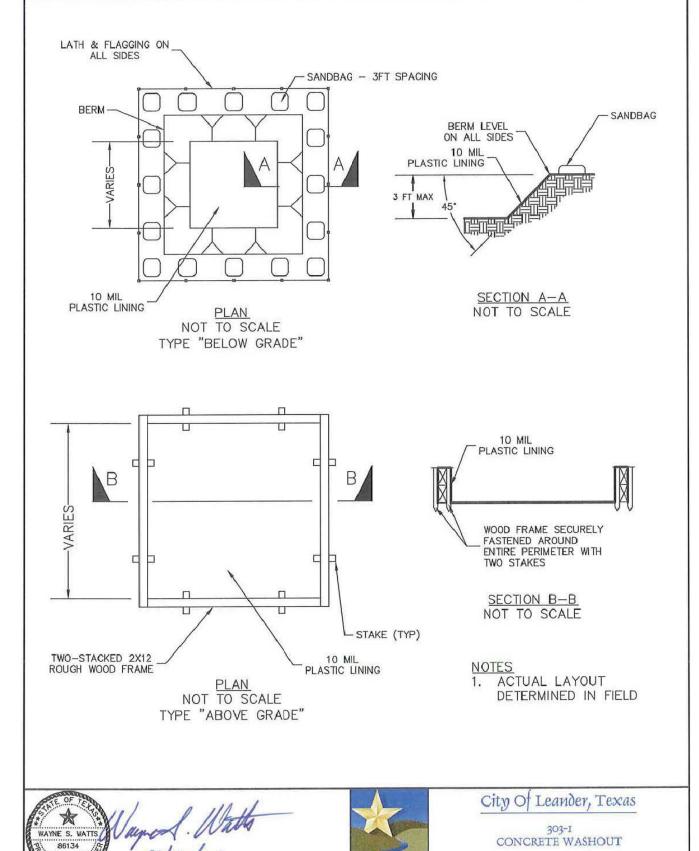
SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

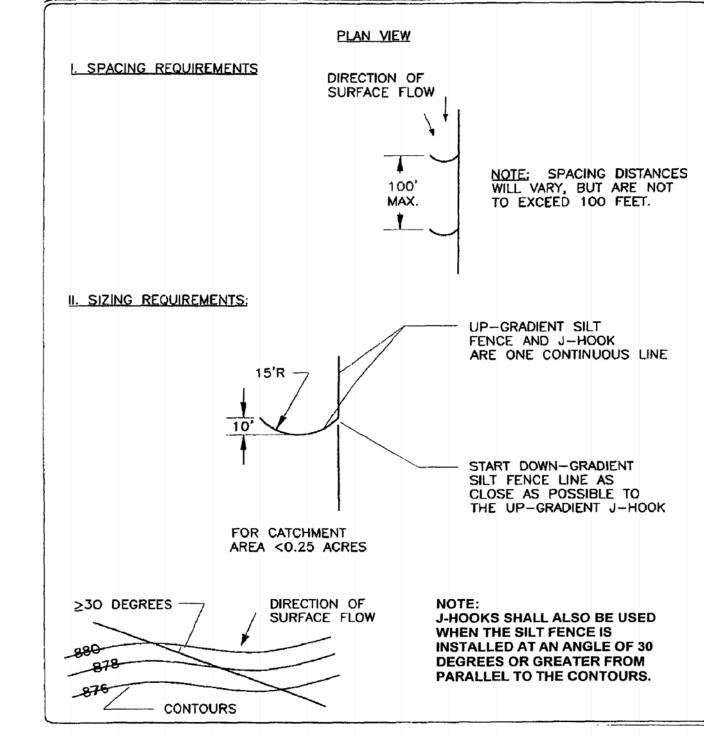
STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS

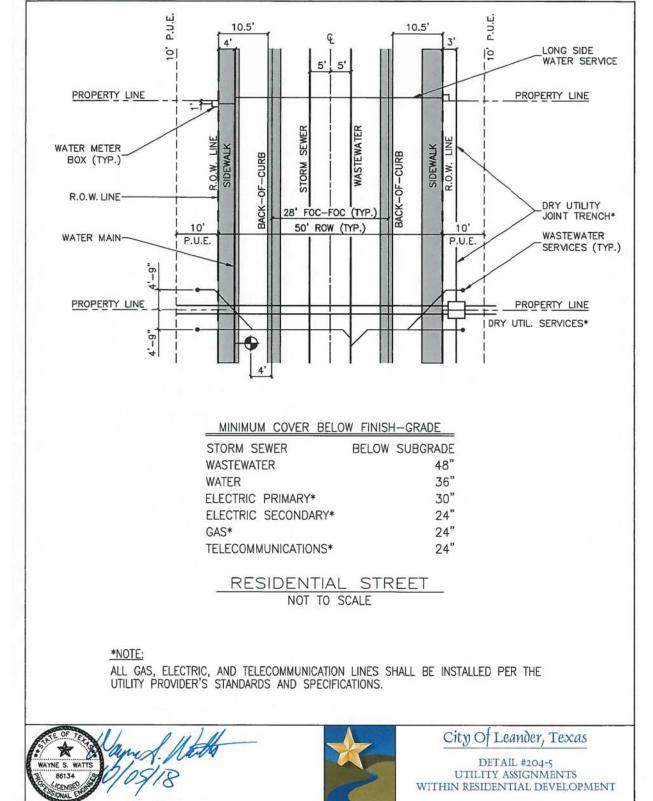
ROADWAY MUST BE REMOVED IMMEDIATELY.

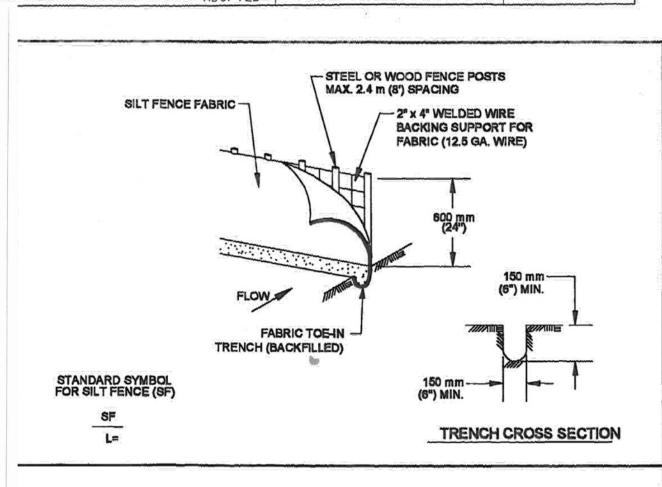
CITY OF AUSTIN

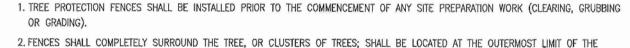
NATERSHED PROTECTION DEPARTMENT











TREE BRANCHES (DRIPLINE), AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE

- CHAIN LINK FENCE

- A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MATERIALS. B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN SIX INCHES (6")) CUT OR FILL, OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY.
- C. WOUNDS TO EXPOSED ROOTS, TRUNKS OR LIMBS BY MECHANICAL EQUIPMENT.
- D. OTHER ACTIVITIES DETRIMENTAL TO TREES, SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING AND FIRE. 3. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES:

10' MAX.

DRIPLINE OF EXISTING TREE

N.T.S.

- A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA. B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN SIX FEET (6'-0") TO BUILDING.
- 4. CRITICAL ROOT ZONE REQUIREMENTS A. NO CONSTRUCTION OR DISTURBANCE SHALL OCCUR WITHIN AN AREA THAT CONSTITUTES MORE THAN FIFTY (50%) OF THE TOTAL CRITICAL ROOT ZONE AND ONE HALF THE RADIAL DISTANCE OF THE CRITICAL ROOT ZONE FOR EACH TREE BEING PRESERVED INCLUDING SIGNIFICANT TREES, HERITAGE TREES, AND ANY OTHER TREES FOR WHICH PRESERVATION IS TO BE CREDITED. THE
- REMAINING CRITICAL ROOT ZONE SHALL CONSIST OF AT LEAST ONE HUNDRED (100) SQUARE FEET. B. THIS DEFINED AREA SHALL BE FLAGGED AND ENCIRCLED WITH PROTECTIVE FENCING DURING CONSTRUCTION, THE PLANNING DIRECTOR MAY APPROVE CONSTRUCTION CLOSER TO THE TRUNK THAN ONE HALF (1/2) THE RADIAL DISTANCE, DEPENDING ON THE
- SIZE, SPACING, OR SPECIES OF THE TREE, THE TYPE OF DISTURBANCE PROPOSED, AND UNIQUENESS OF THE SITUATION. C. CUT OR FILL THAT IS GREATER THAN FOUR (4) INCHES IN DEPTH AND THE SEVERING OF MAJOR ROOTS SHALL BE CONSIDERED DISTURBANCE FOR THE PURPOSES OF THIS ORDINANCE.
- D. WITHIN THE PROTECTED CRITICAL ROOT ZONE, ONLY FLATWORK, DECKING, OR SIMILAR CONSTRUCTION, MAY BE APPROVED AND
- E. IF PROPOSED OR ACTUAL PROTECTION OF THE CRITICAL ROOT ZONE OF A TREE DOES NOT MEET THE REQUIREMENTS OF THIS SECTION, THEN THE TREE SHALL BE CONSIDERED REMOVED AND SHALL REQUIRE MITIGATION IN ACCORDANCE WITH THIS ORDINANCE.

City Of Leander, Texas TREE PROTECTION

1. STEEL OR WOOD 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 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 Inches) DEPTH, USE STEEL POSTS.

2. 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.

3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 Inches) DEEP AND 150 mm (6 Inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED

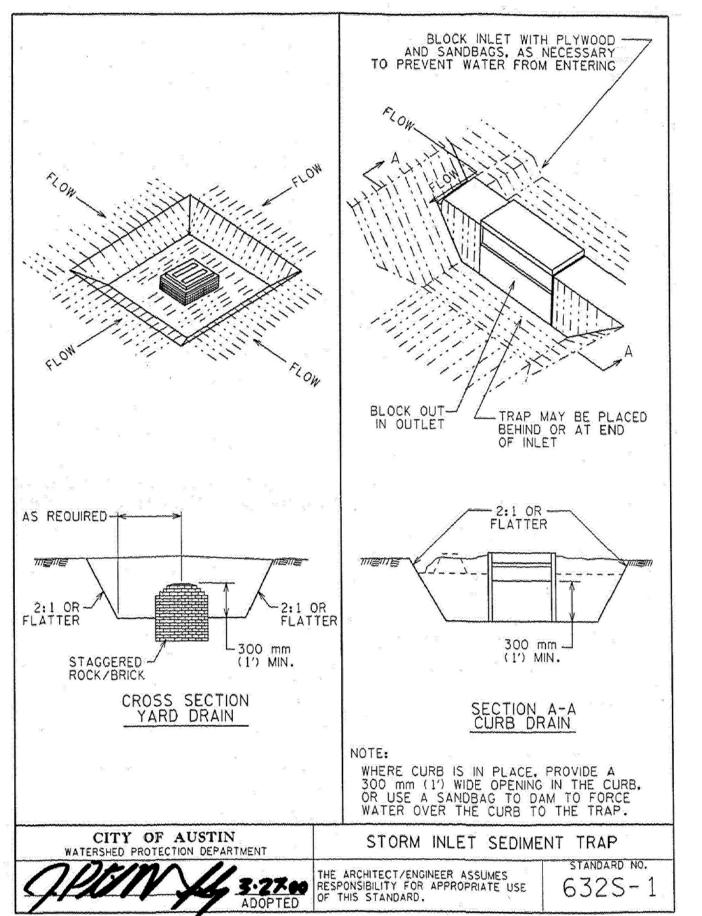
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.

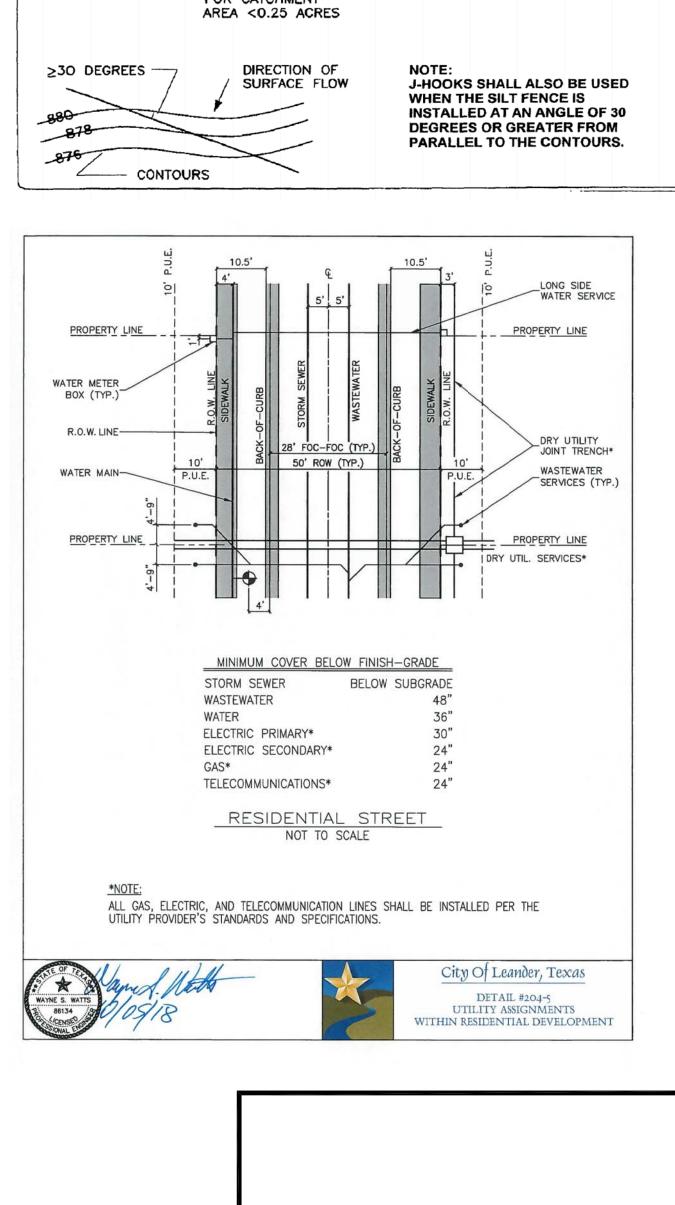
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTY AS NEEDED.

8. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 Inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

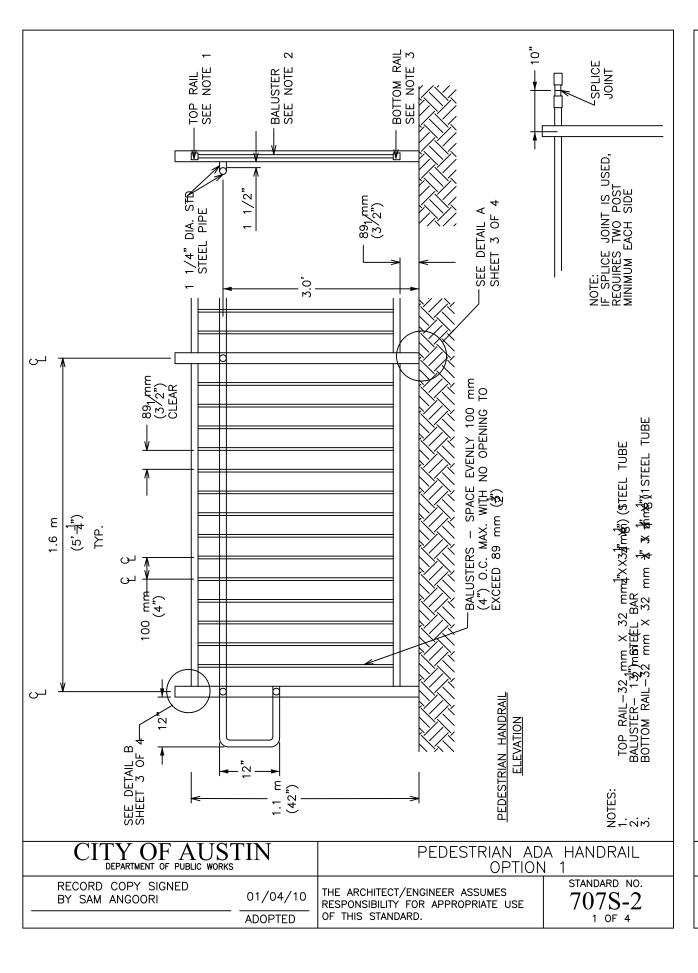
CITY OF AUSTIN SILT FENCE WATERSHED PROTECTION DEPARTMENT RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. 642S-1 ADOPTED

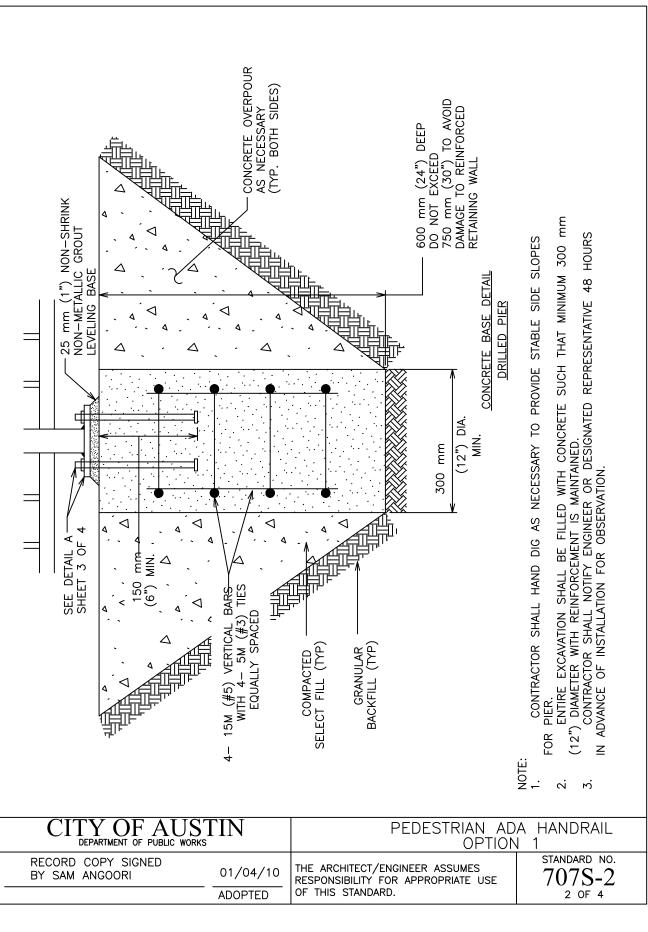


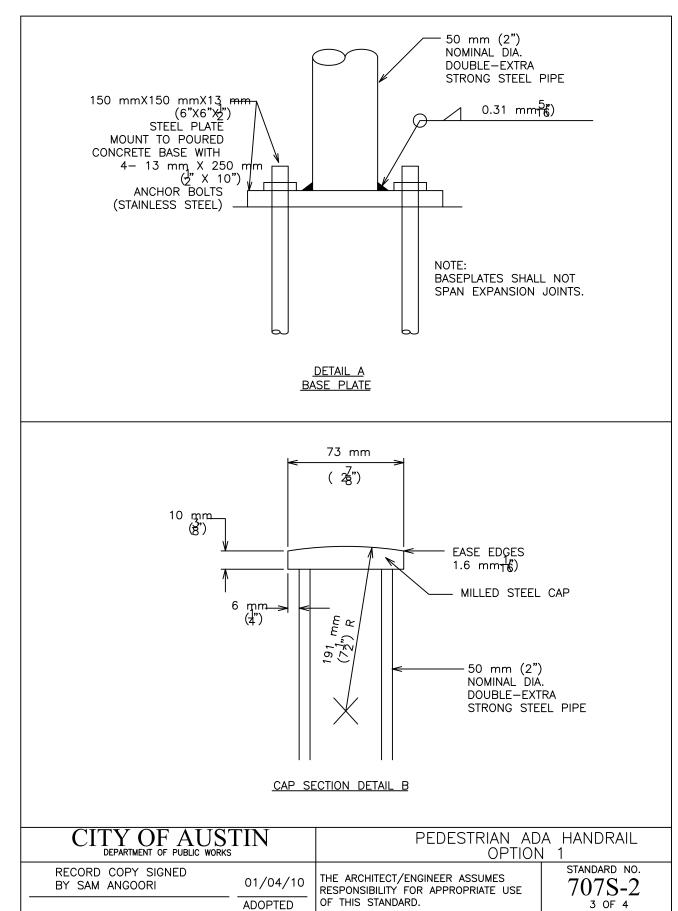


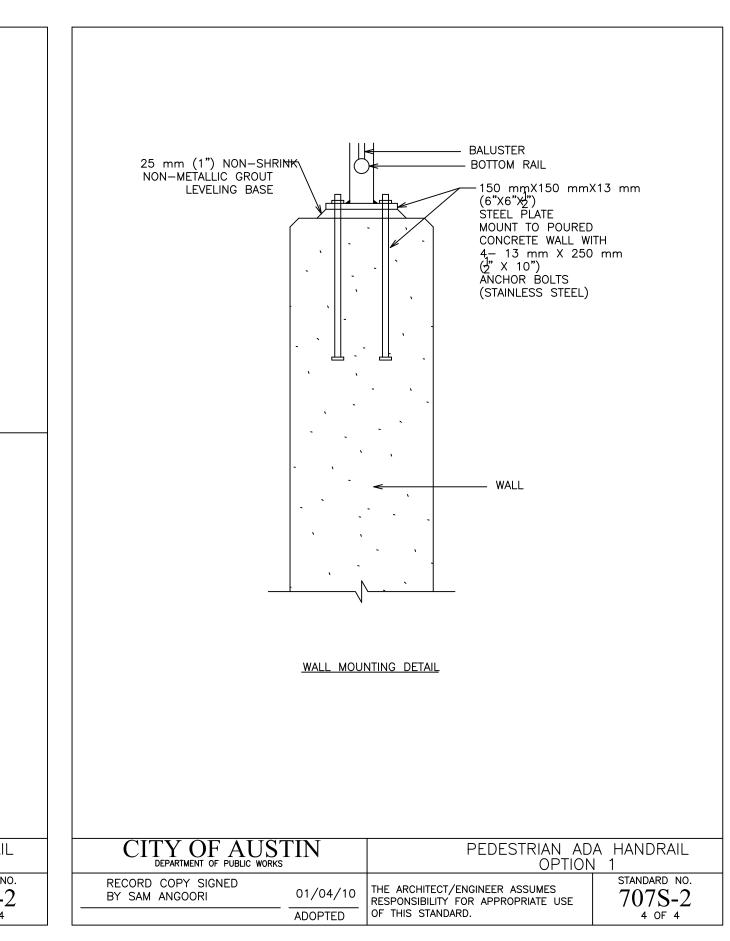
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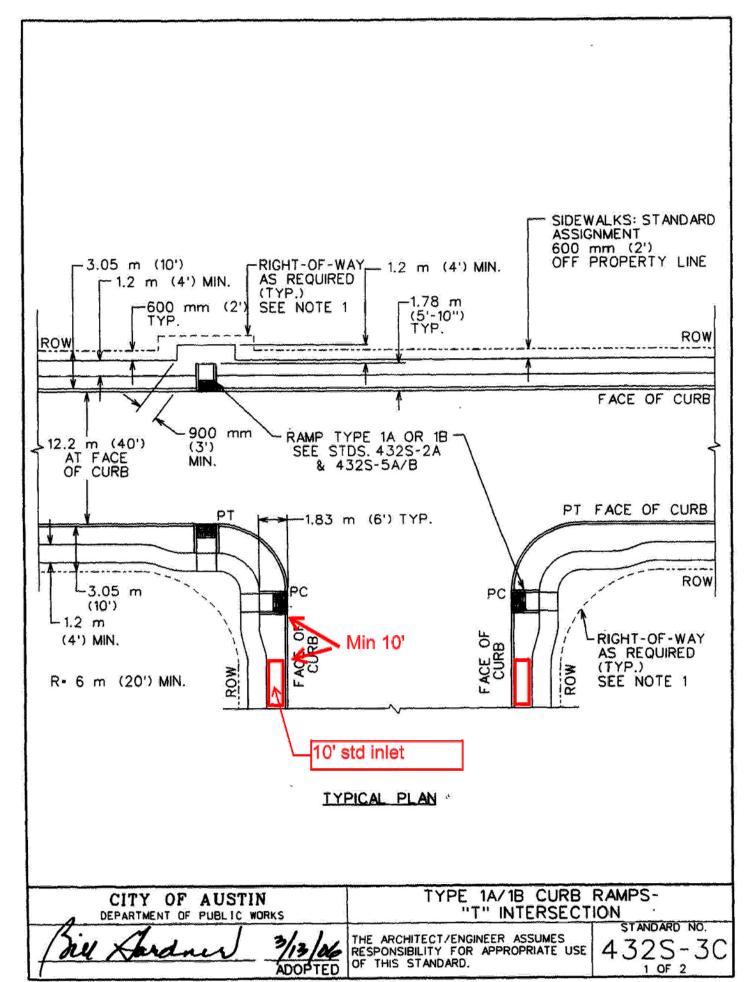
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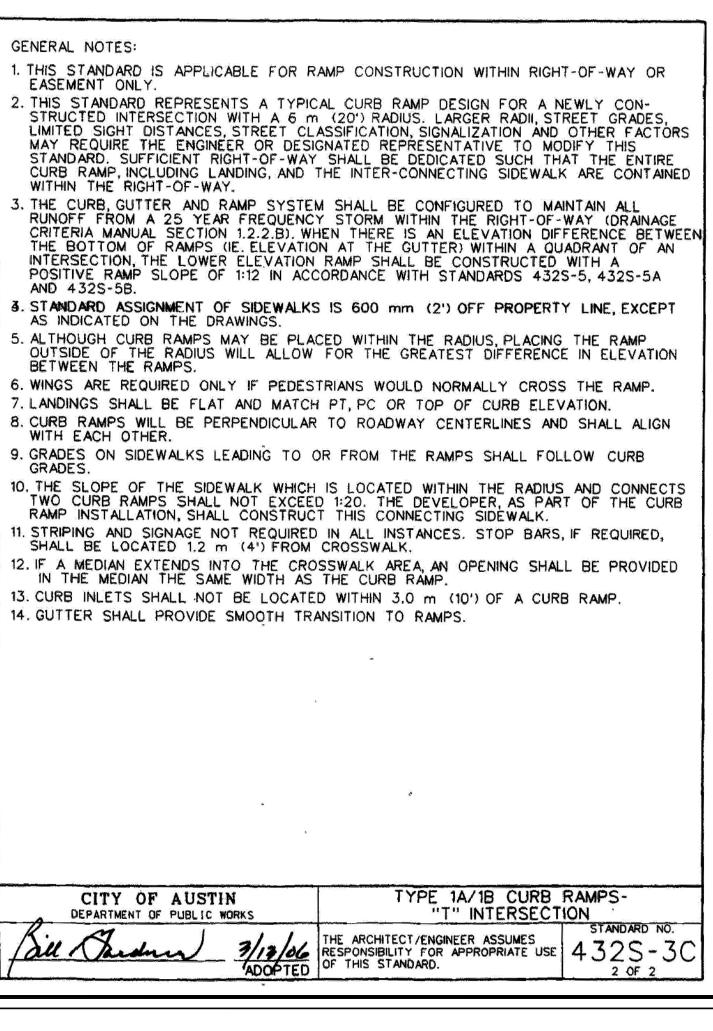


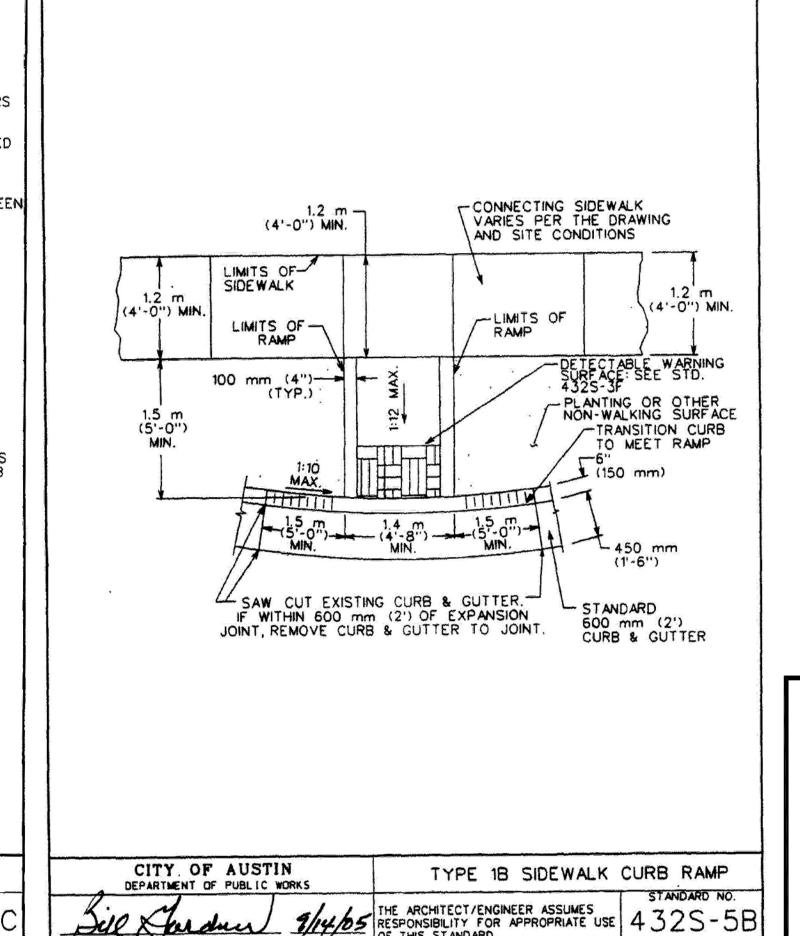


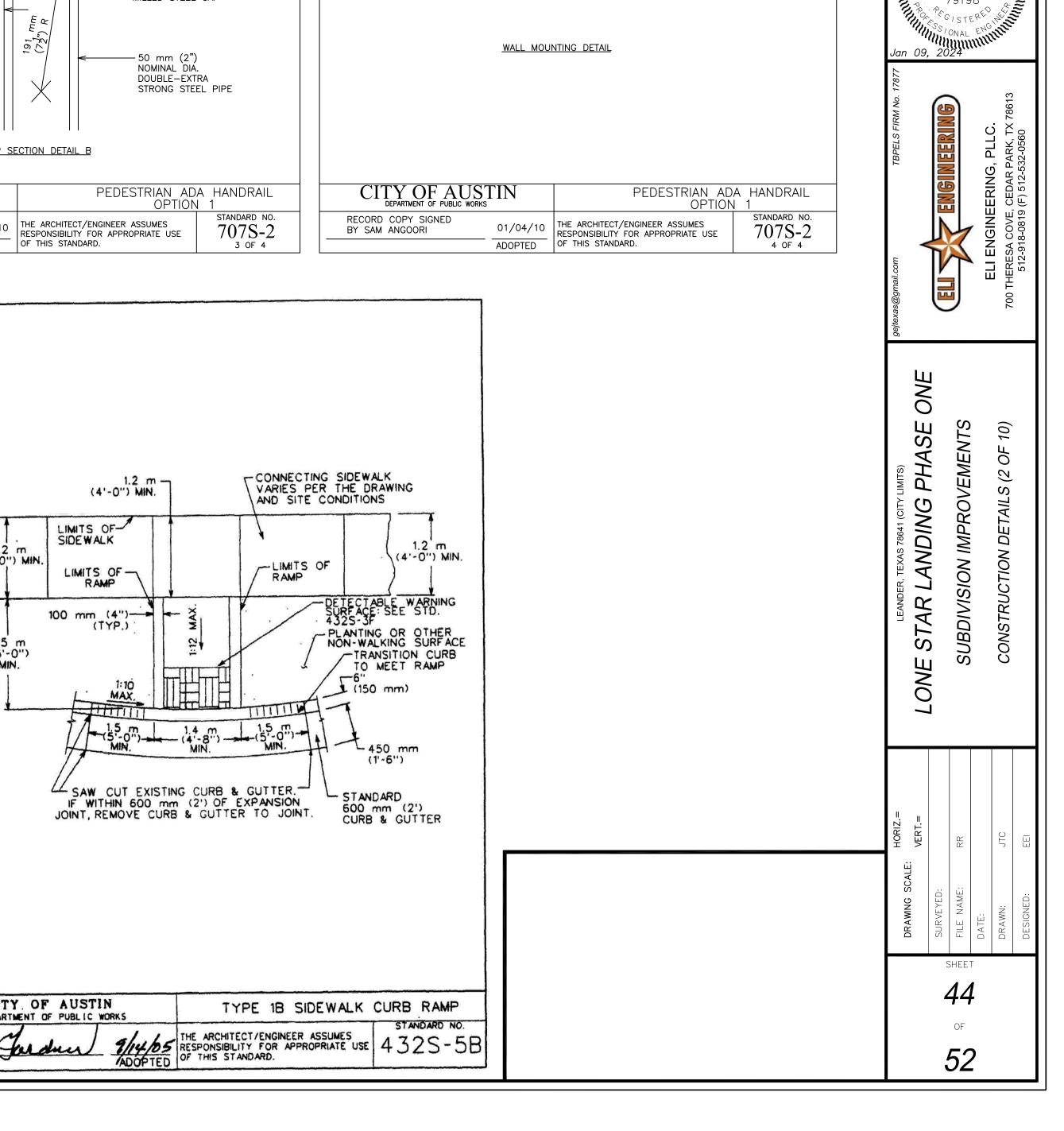


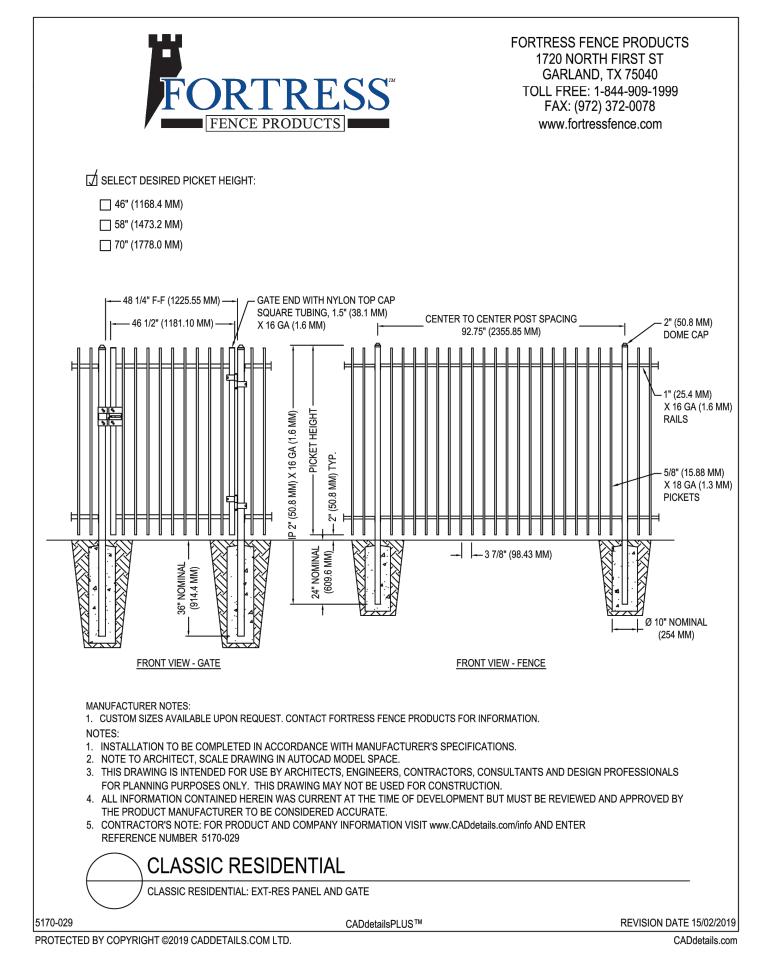


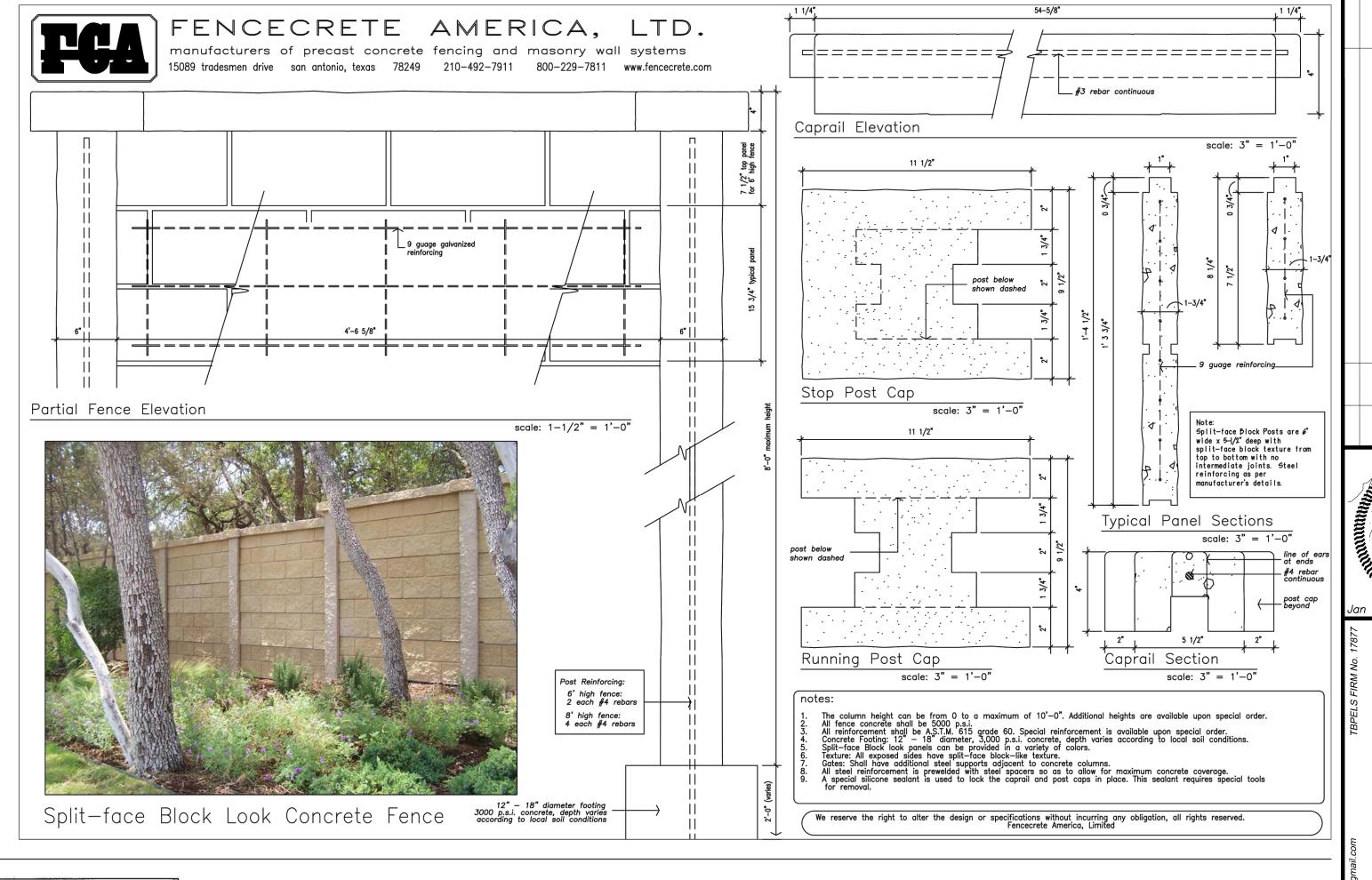


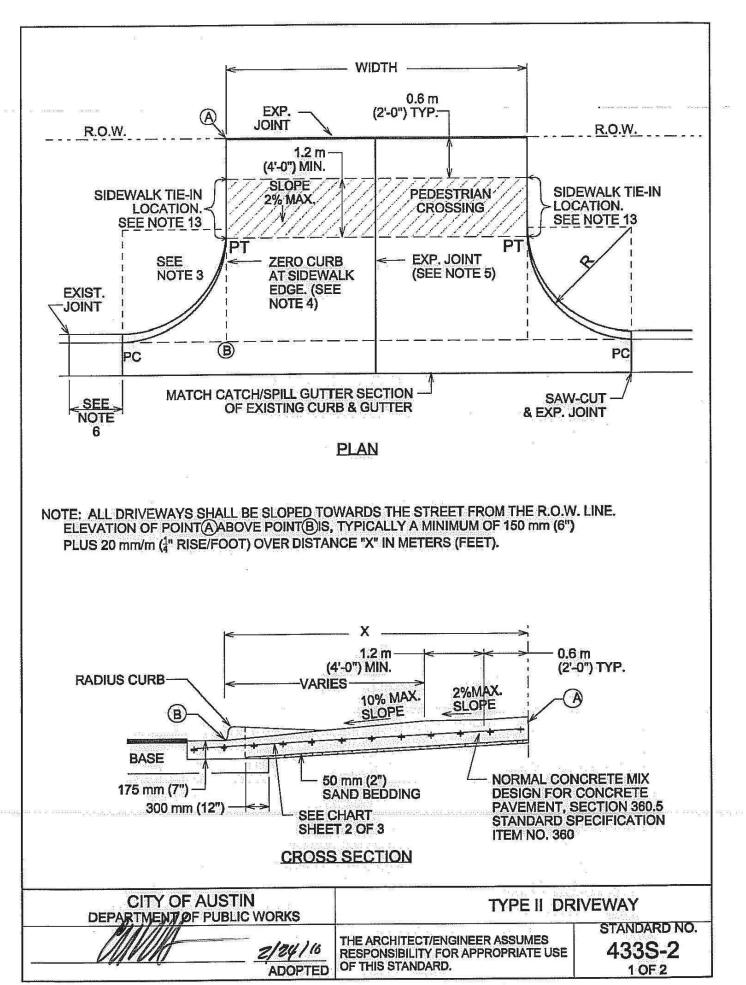


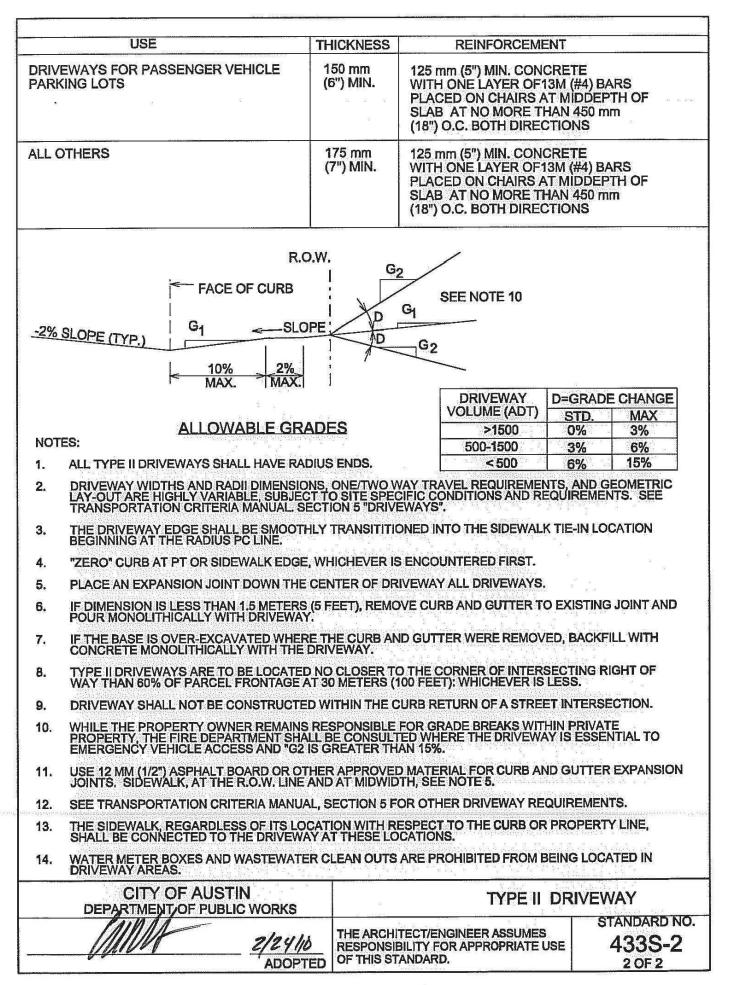


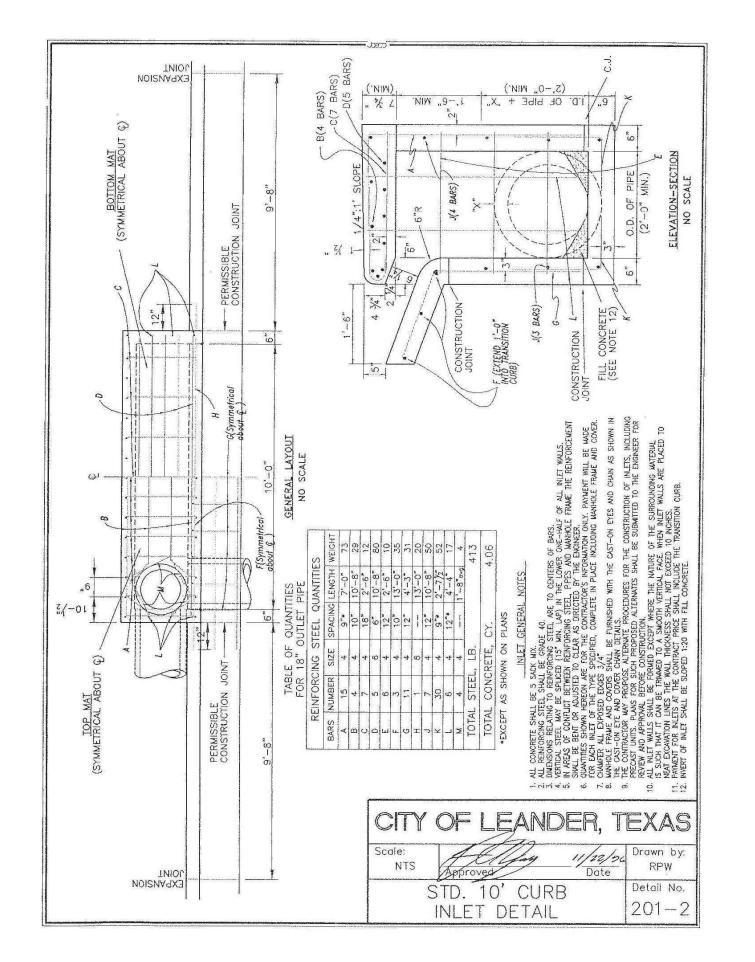


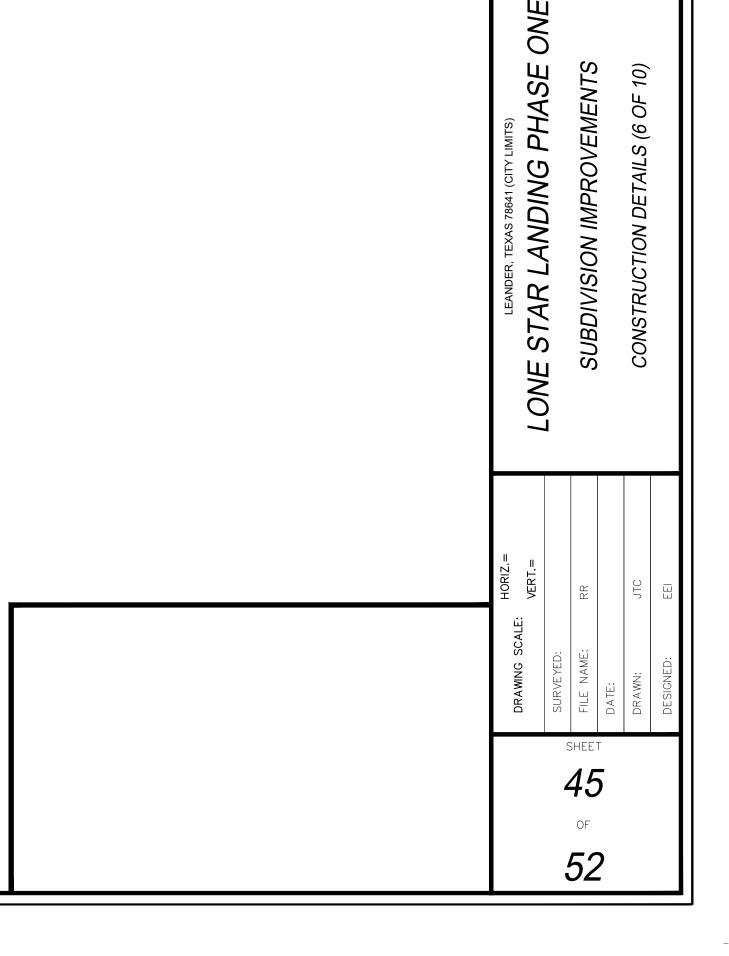


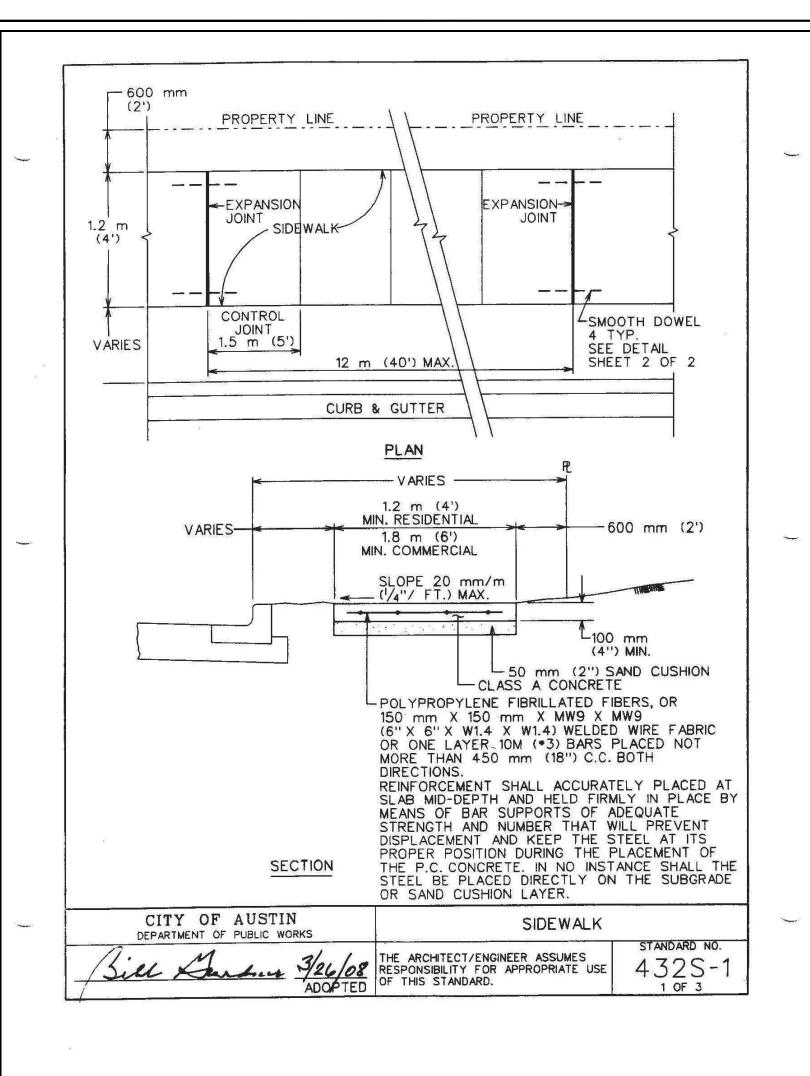


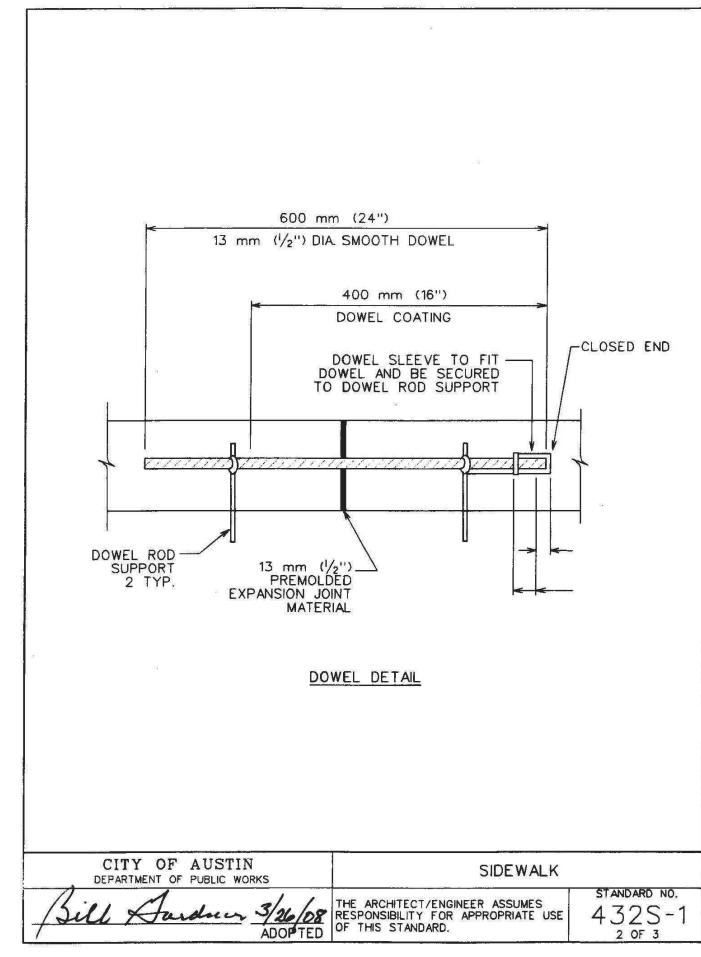


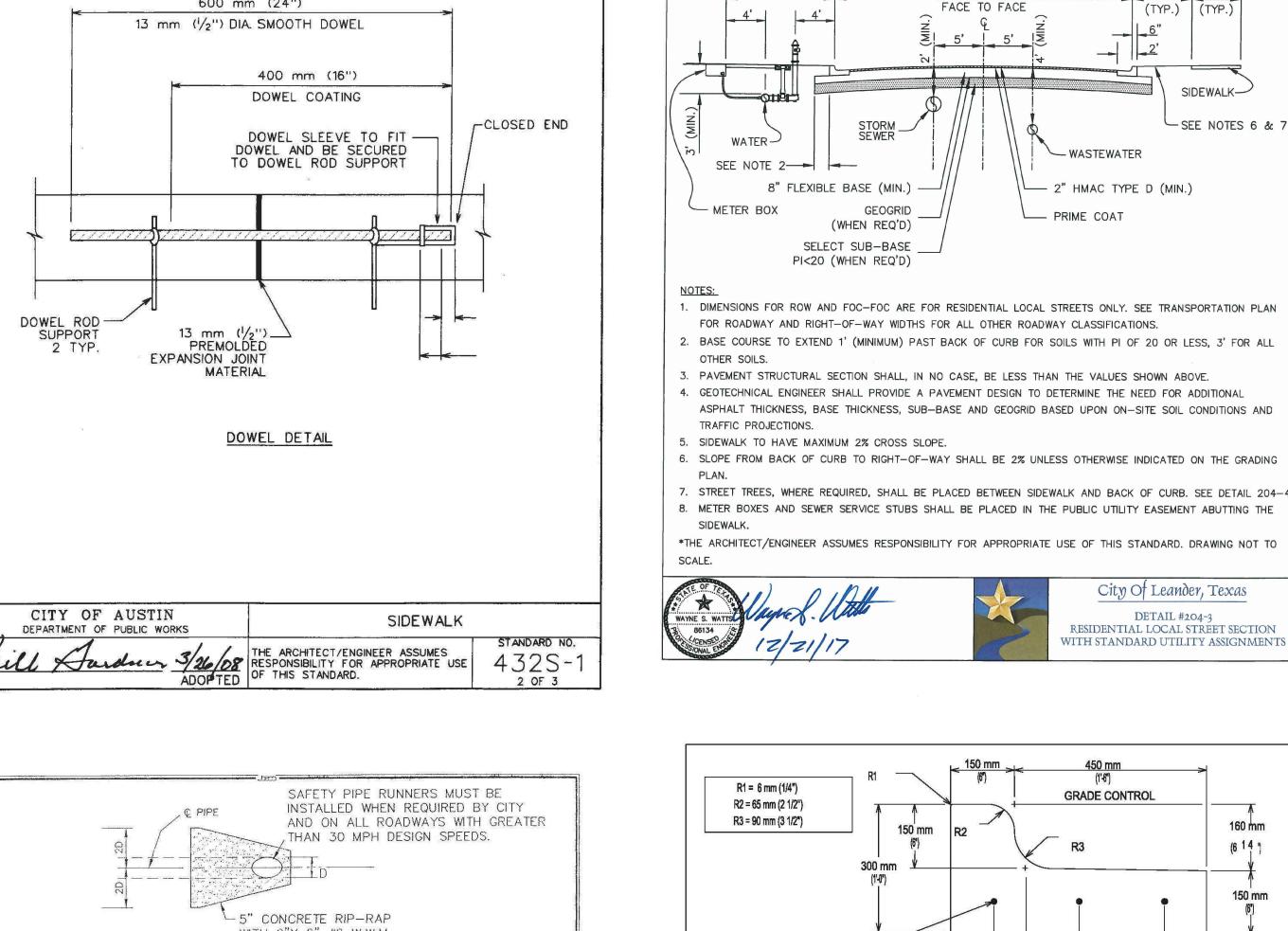




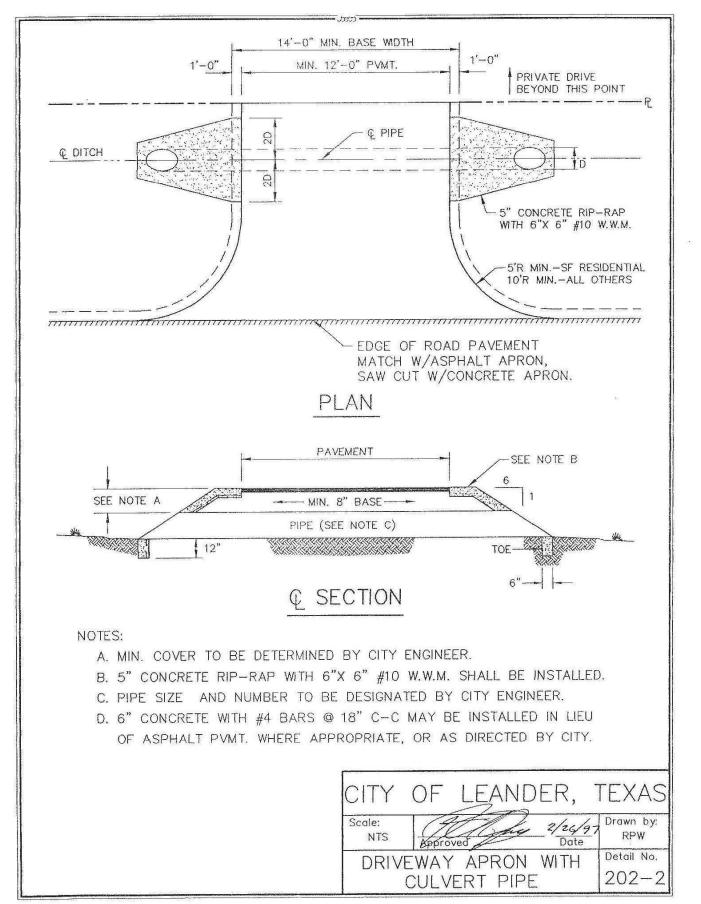


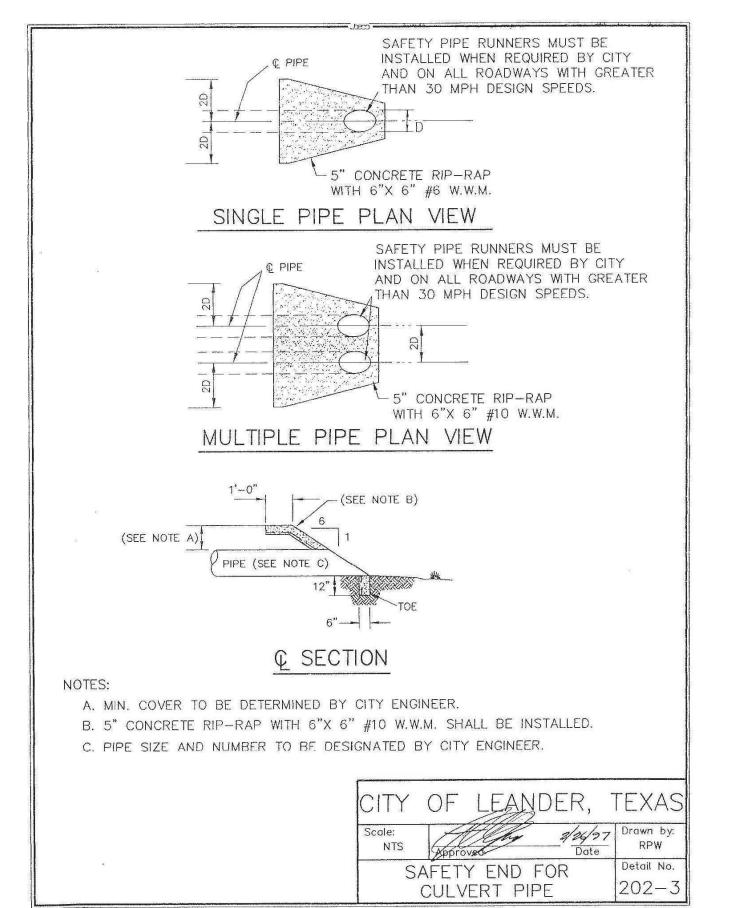


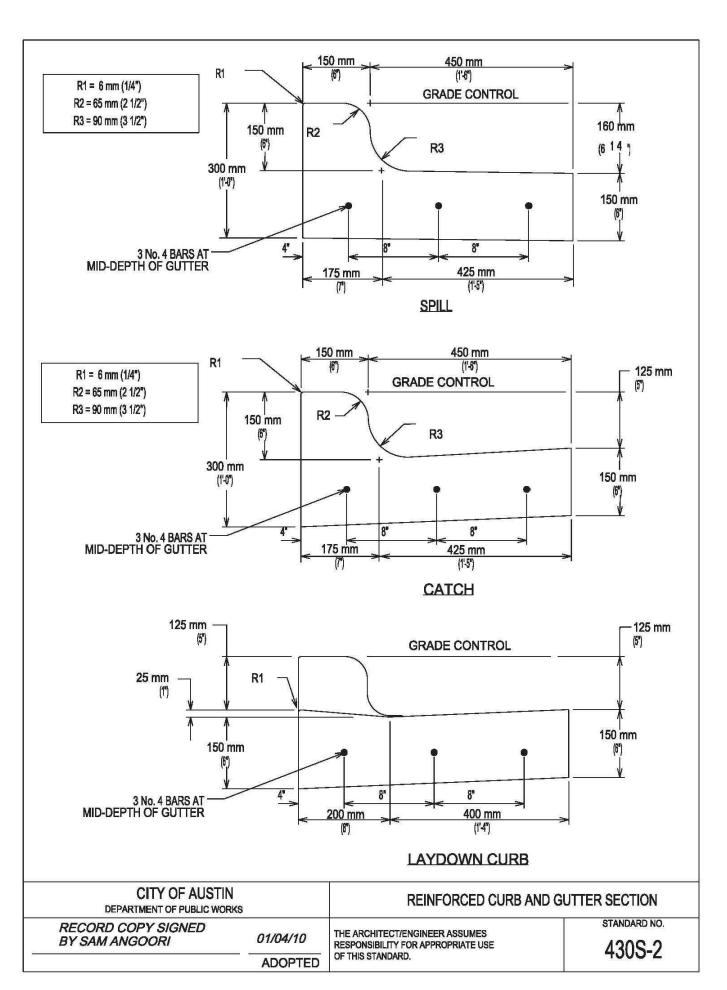




10' PUE



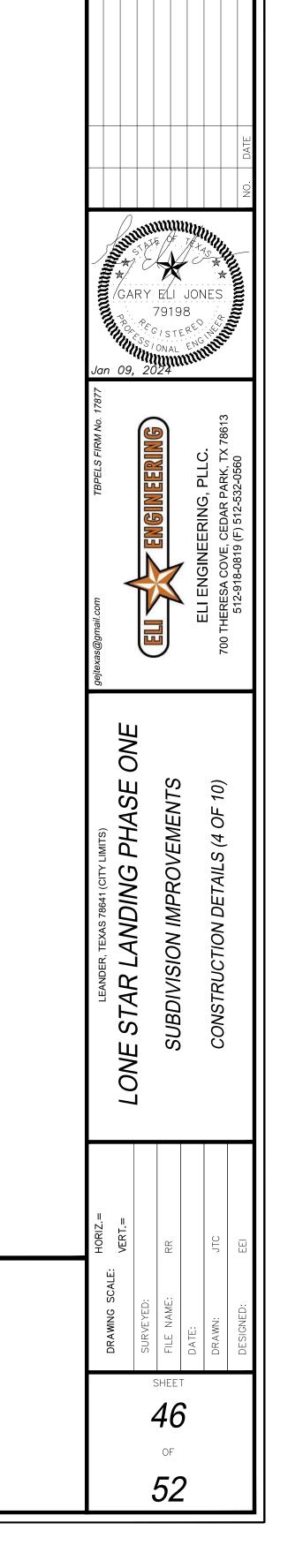


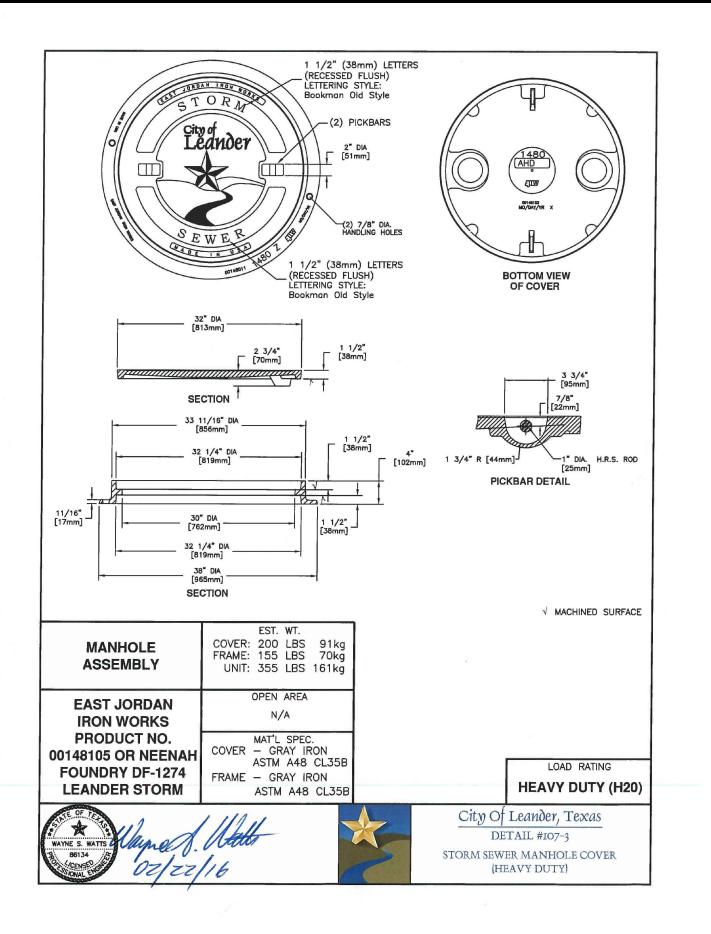


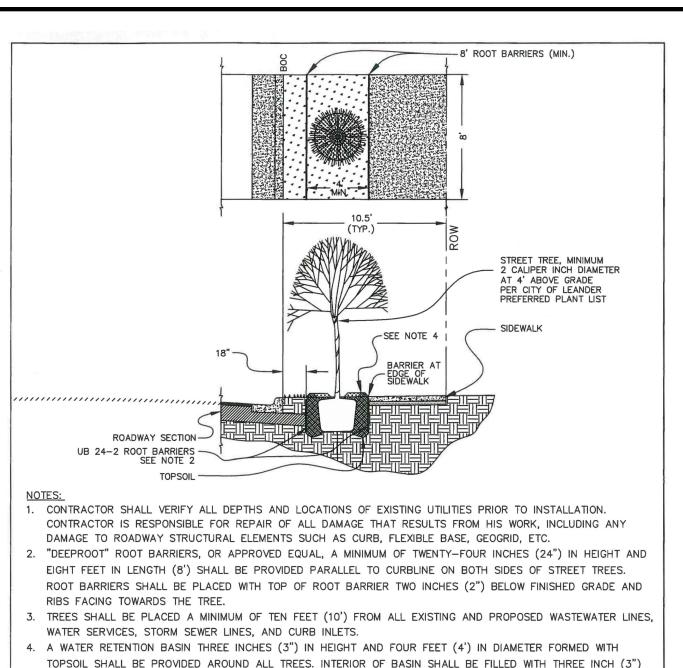
RESIDENTIAL LOCAL STREET SECTION WITH STANDARD UTILITY ASSIGNMENTS

50' MIN. R.O.W.

10' PUE







4. A WATER RETENTION BASIN THREE INCHES (3) IN HEIGHT AND FOUR FEET (4) IN DIAMETER FORMED WITH TOPSOIL SHALL BE PROVIDED AROUND ALL TREES. INTERIOR OF BASIN SHALL BE FILLED WITH THREE INCH (3") LAYER OF SHREDDED BARK MULCH HELD THREE INCHES (3") BACK FROM THE TRUNK.

5. ALL TREES SHALL BE STAKED WITH 7' LENGTH STEEL "T" POSTS, PAINTED DARK GREEN. LOCATE POSTS 6" +/-

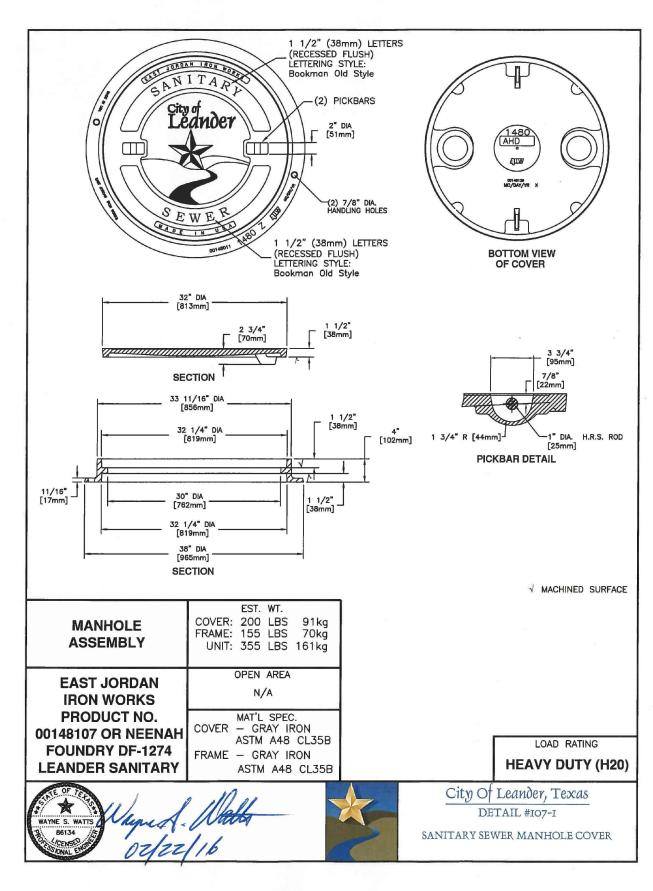
FROM ROOTBALL. DO NOT DISTURB ROOTBALL. POSTS SHALL BE DRIVEN 2' INTO GROUND WITH 5' EXPOSED ABOVE GROUND. POSTS SHALL BE CONSISTENT HEIGHT AND ALIGNED PARALLEL TO ADJACENT CURBS. USE 12—GAUGE STRANDED CABLE WITH HOSE TO PROTECT TRUNK. ENSURE THERE IS NO SLACK IN WIRES.

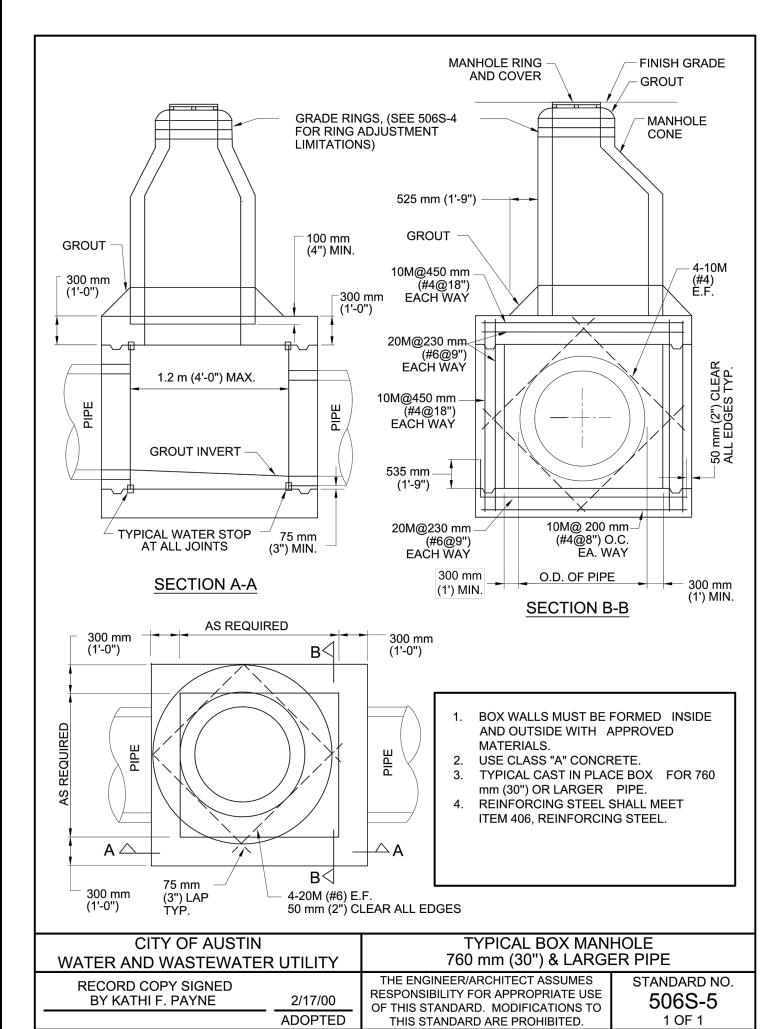
6. IF SOLID ROCK IS ENCOUNTERED AT DEPTHS LESS THAN TWENTY—SIX INCHES (26") FROM FINISHED GRADE, INSTALL ROOT BARRIER TO TOP OF ROCK LAYER AND TRIM EXCESS LENGTH.

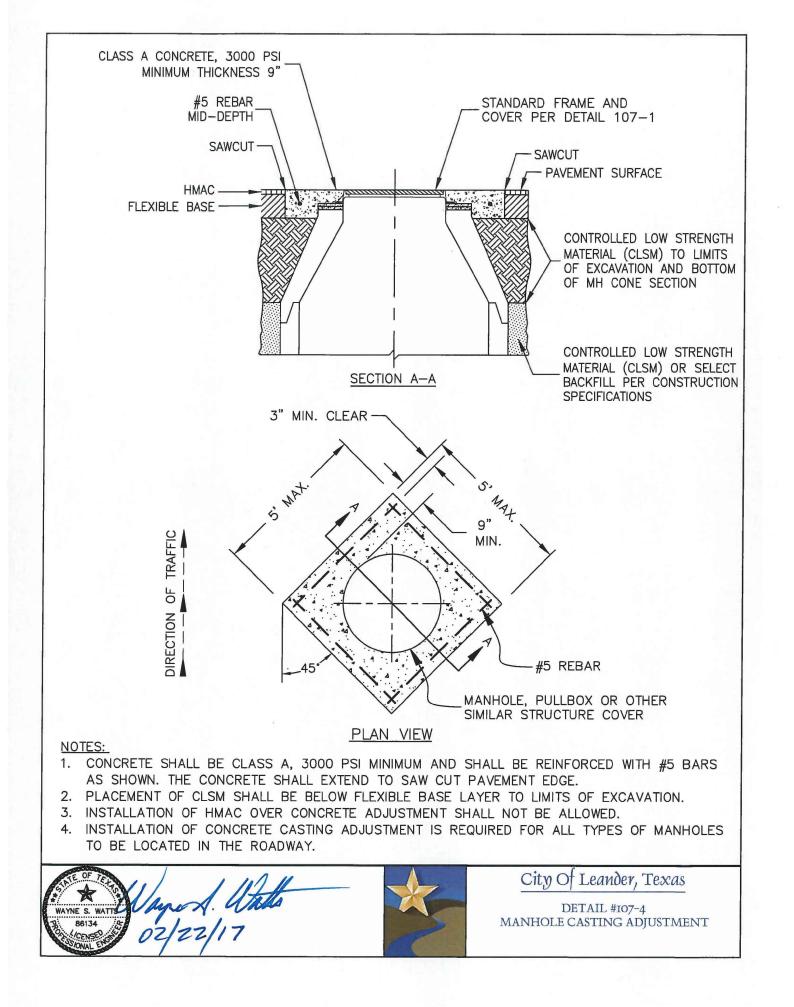
\*THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. DRAWING NOT TO SCALE.

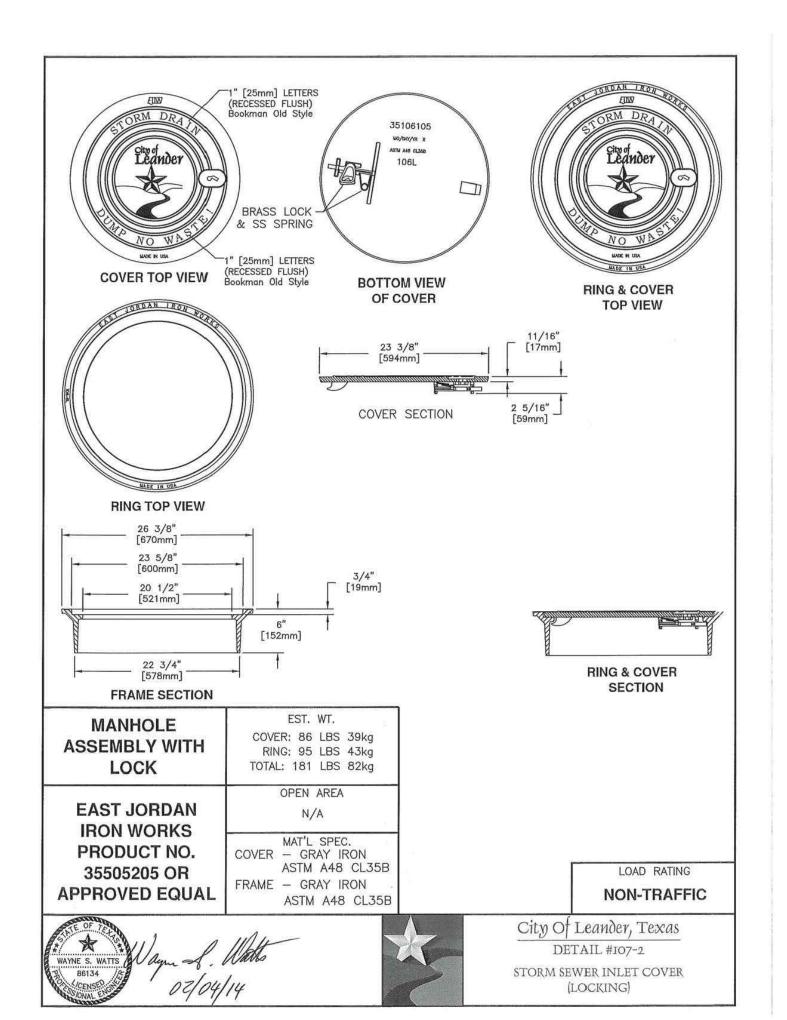


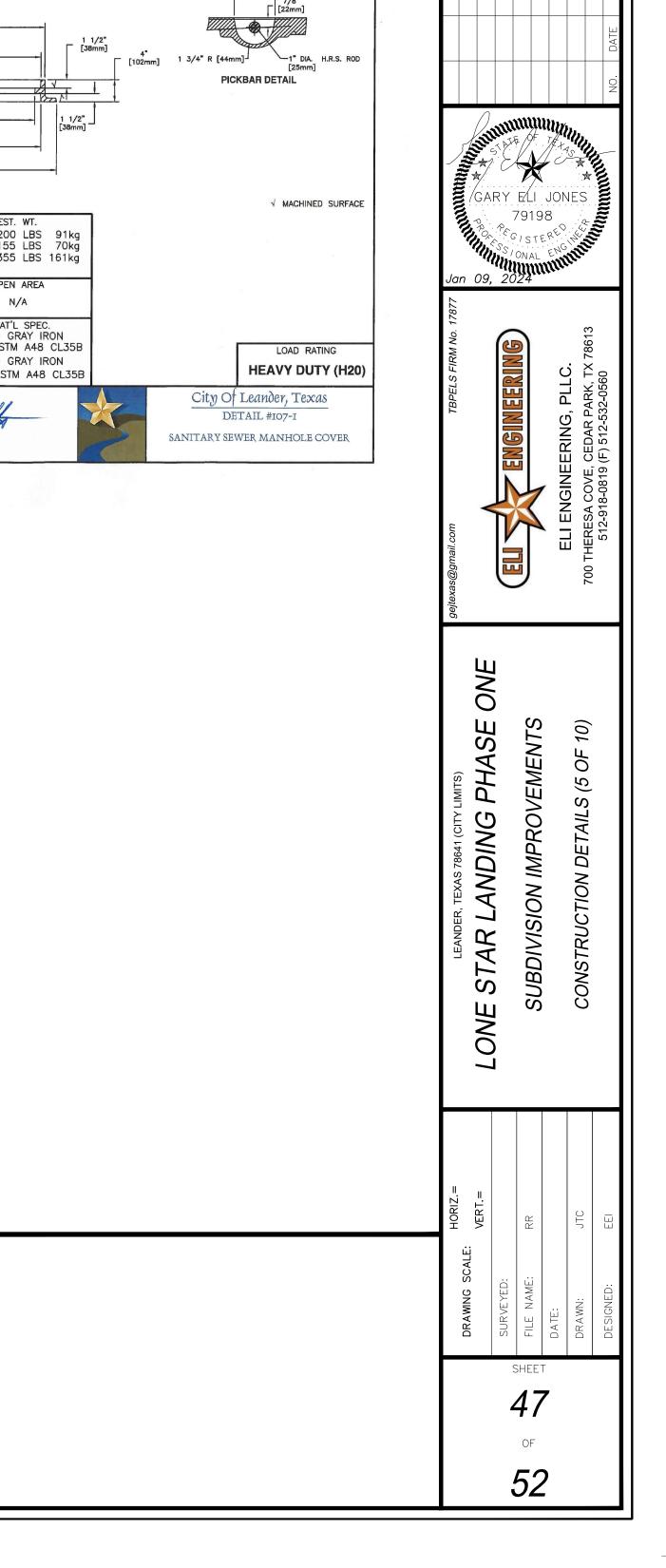


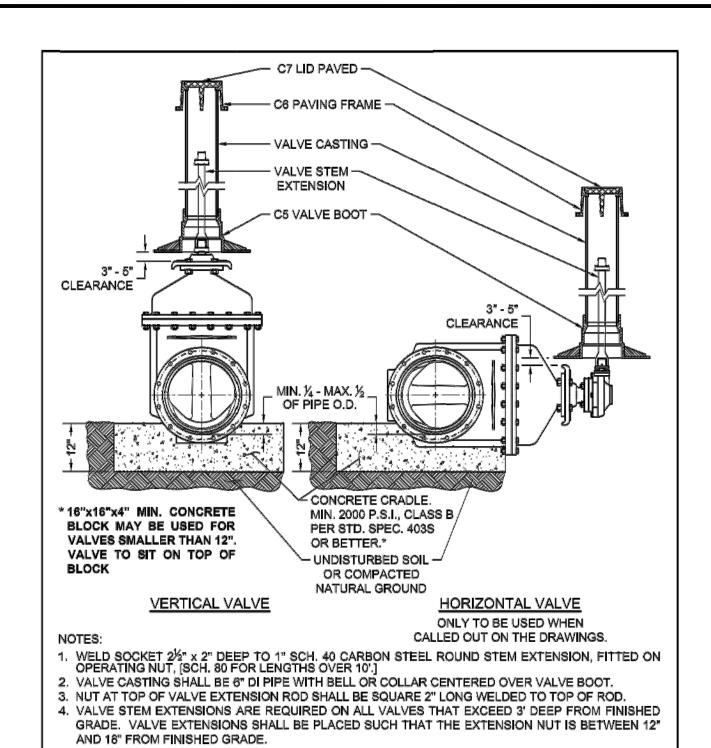












RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE

SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE

MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE

MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE

AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS

ADOPTED

TYPICAL GATE VALVE 4" - 16"

THE ARCHITECT/ENGINEER ASSUMES |

RESPONSIBILITY FOR APPROPRIATE

USE OF THIS STANDARD.

STANDARD NO.

511-AW-01

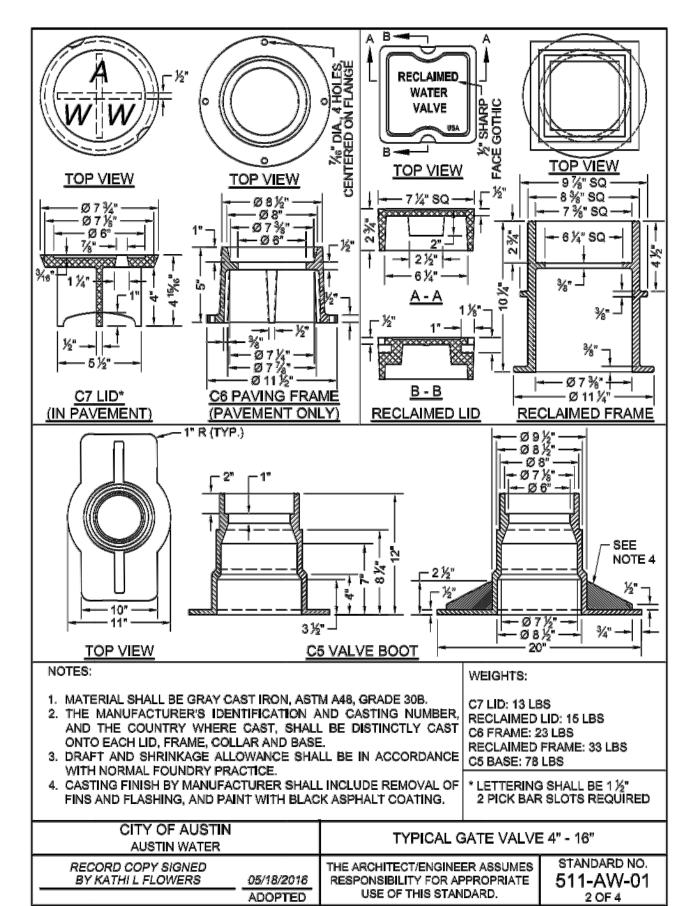
SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

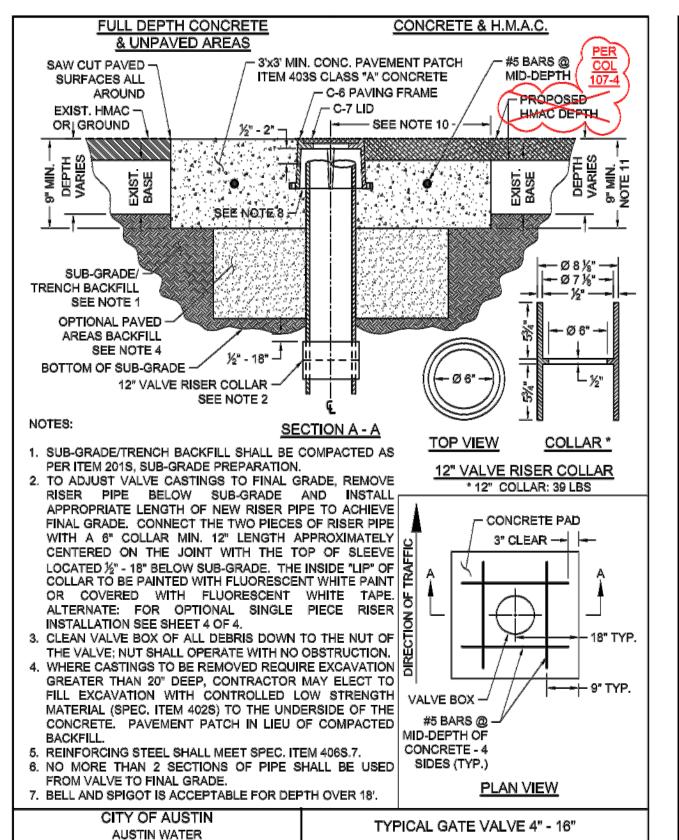
CITY OF AUSTIN

AUSTIN WATER

RECORD COPY SIGNED

BY KATHI L FLOWERS

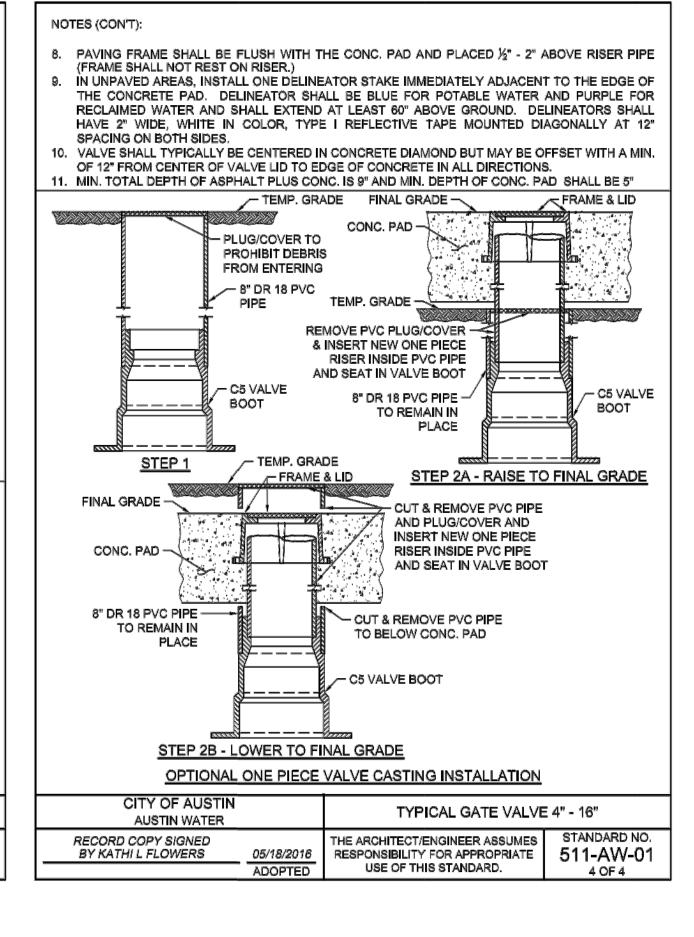


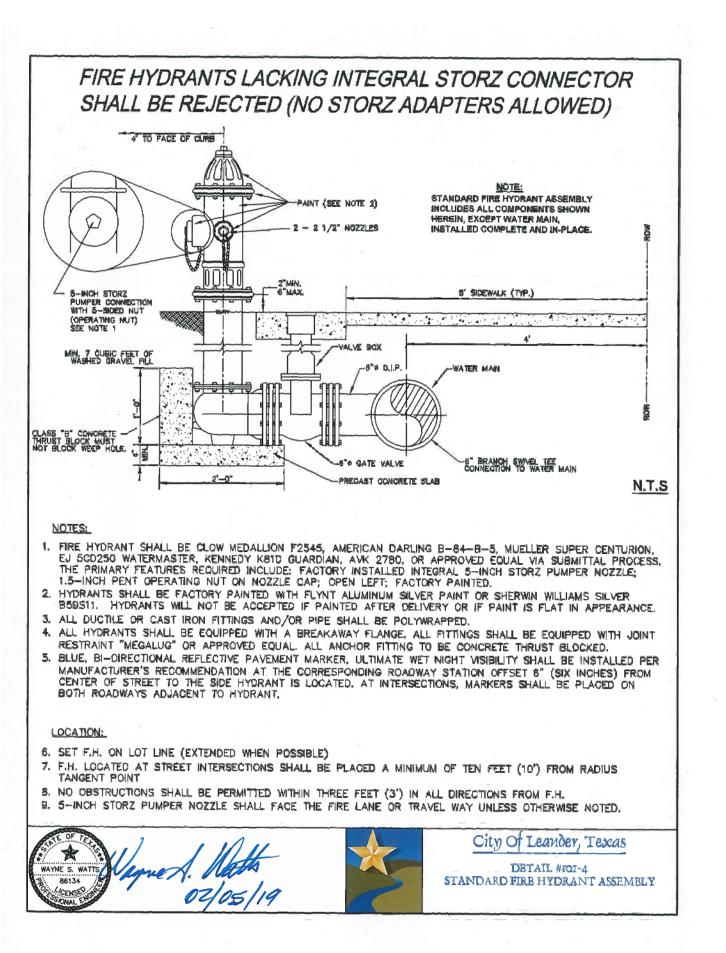


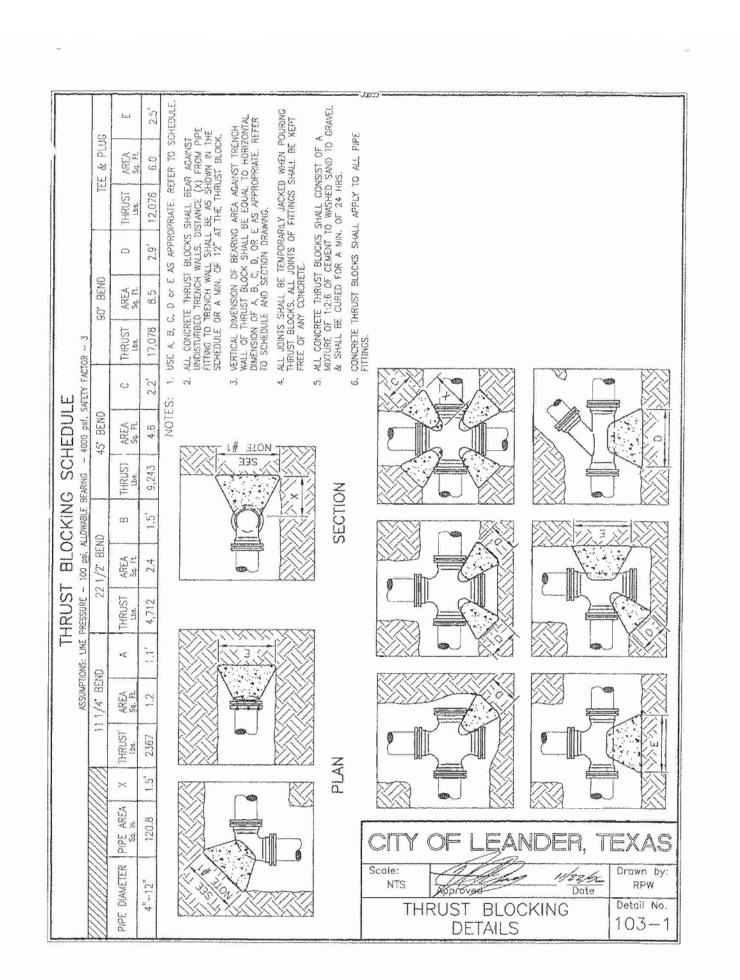
RECORD COPY SIGNED BY KATHI L FLOWERS

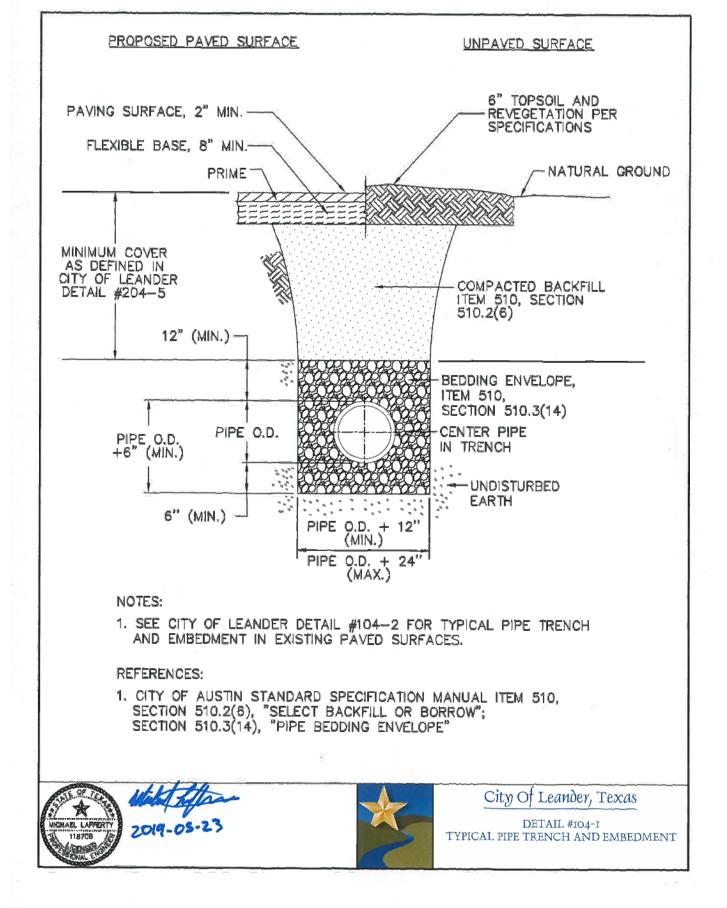
05/18/2016

ADOPTED









THE ARCHITECT/ENGINEER ASSUMES

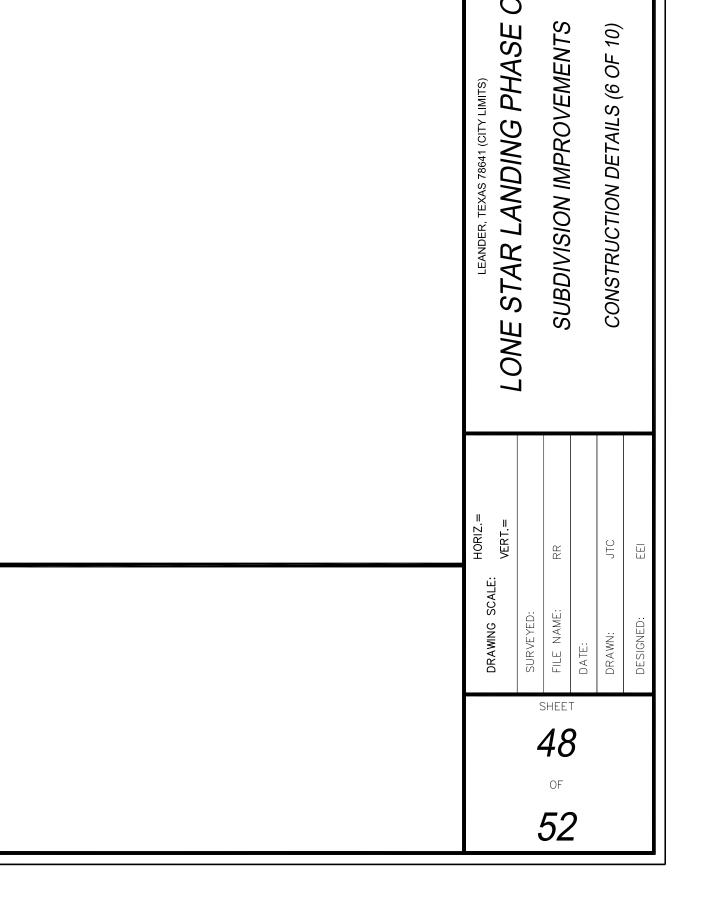
RESPONSIBILITY FOR APPROPRIATE

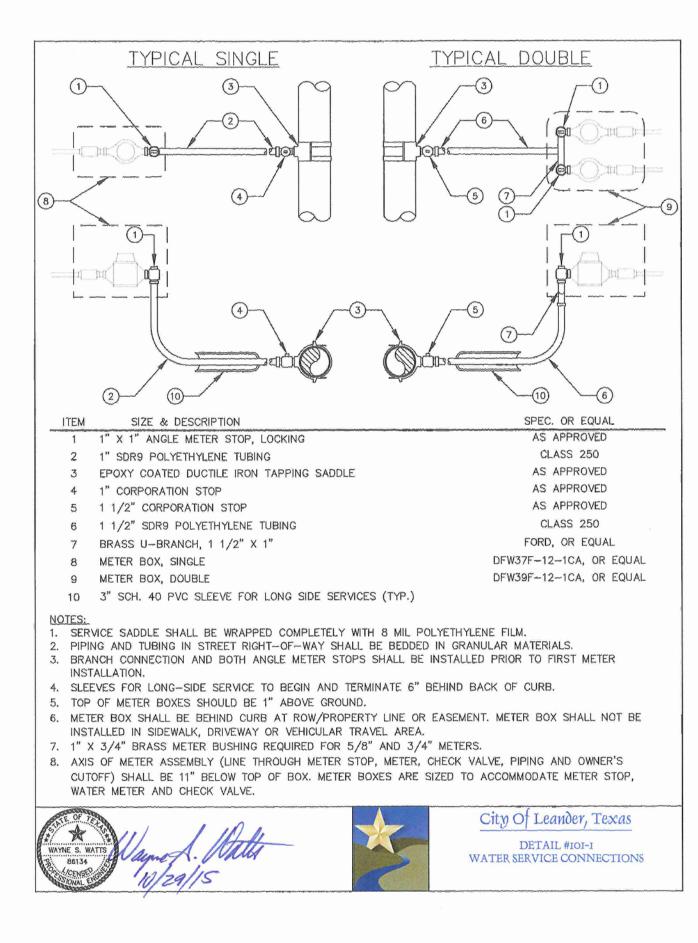
USE OF THIS STANDARD.

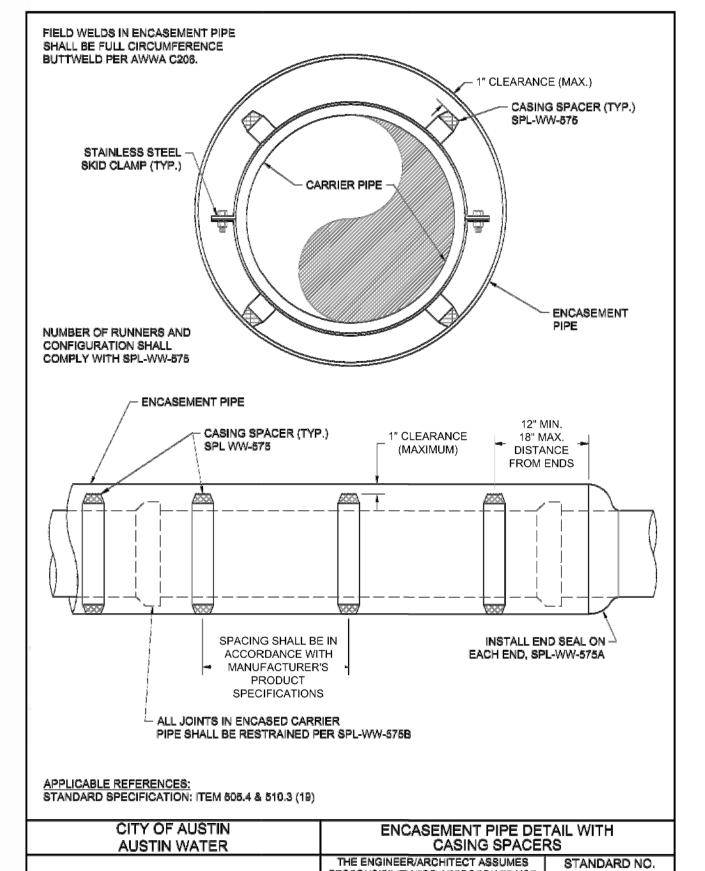
STANDARD NO.

511-AW-01

3 OF 4







RESPONSIBILITY FOR APPROPRIATE USE

OF THIS STANDARD. MODIFICATIONS TO

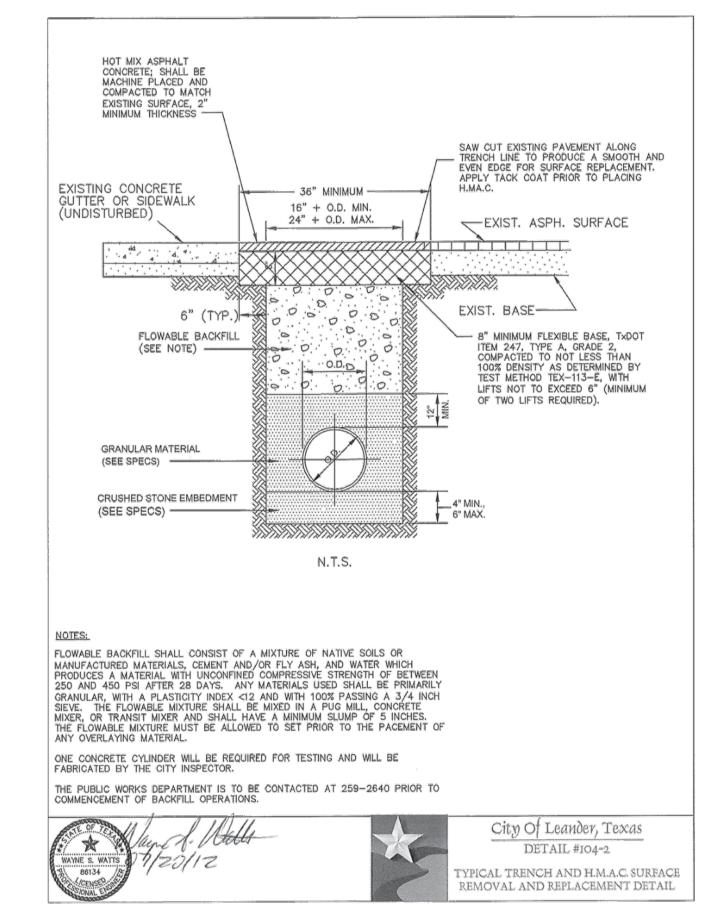
THIS STANDARD ARE PROHIBITED.

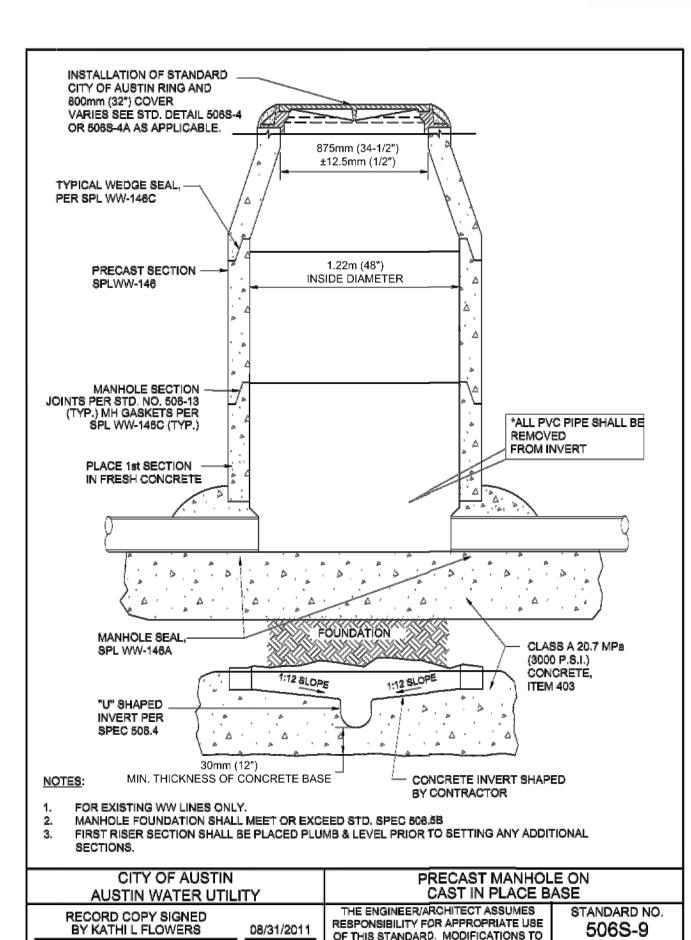
JEFF A. KYLE

ADOPTED

501-AW-01

1 OF 1



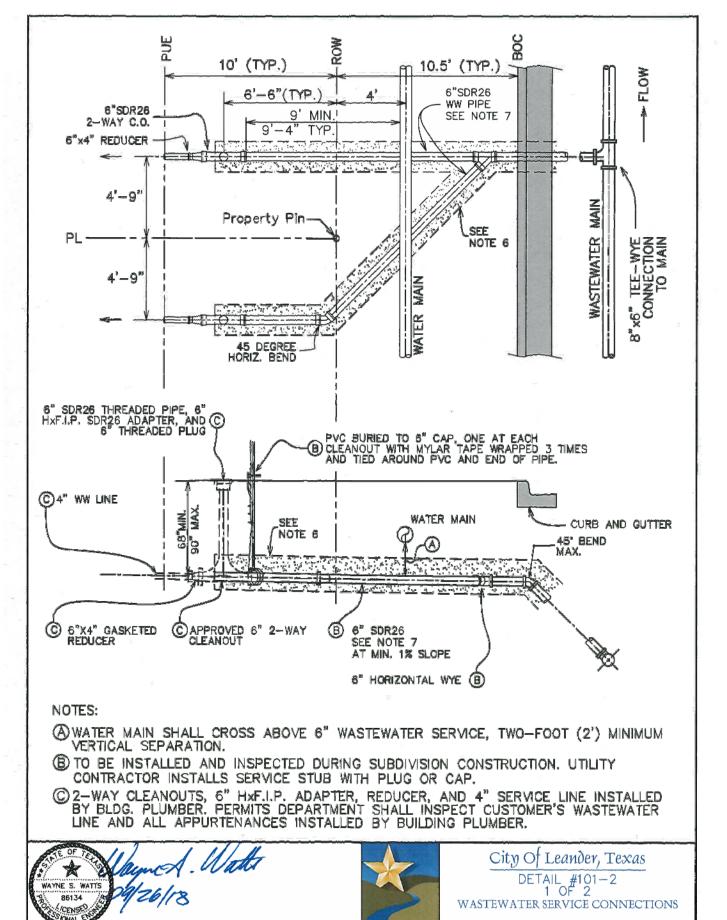


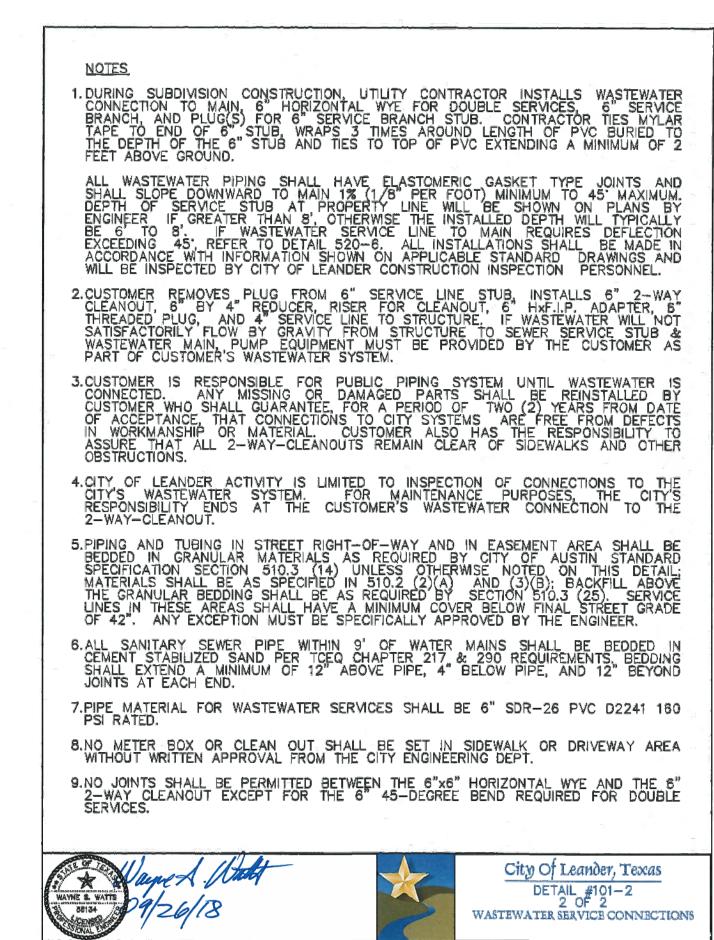
OF THIS STANDARD, MODIFICATIONS TO

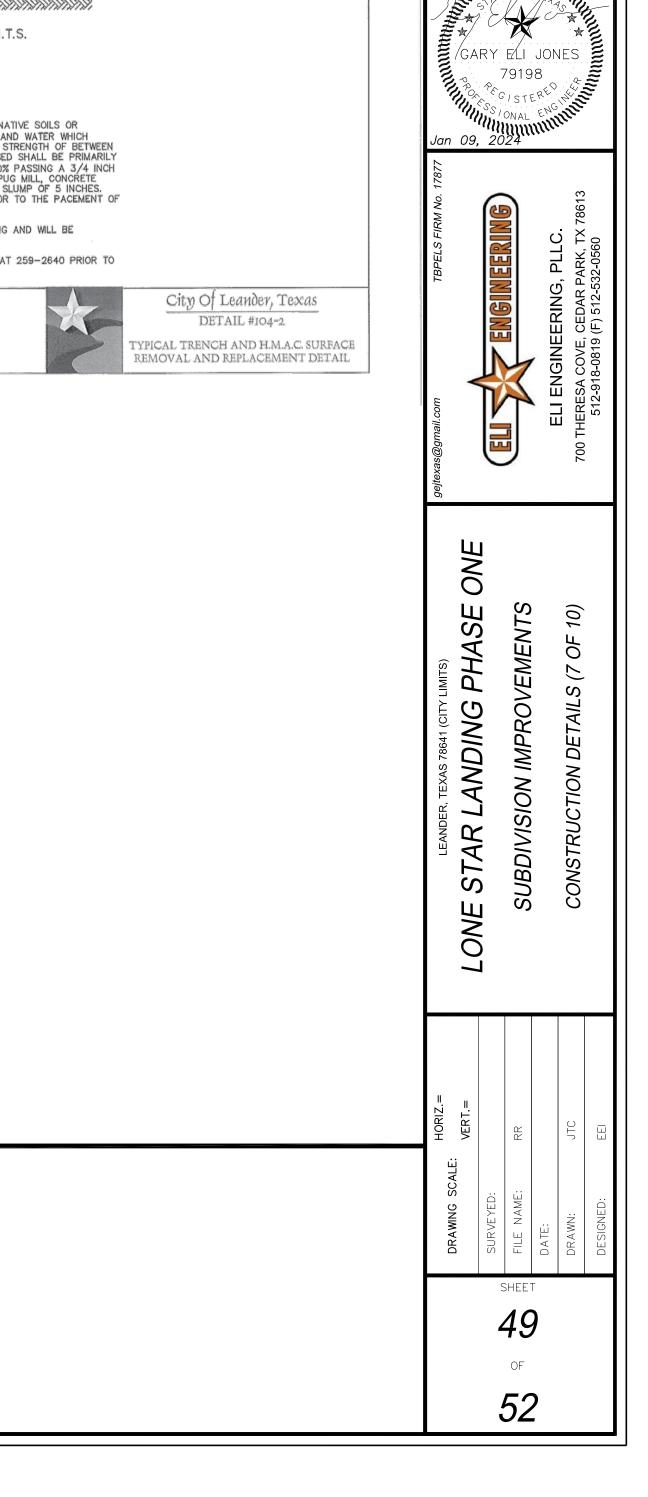
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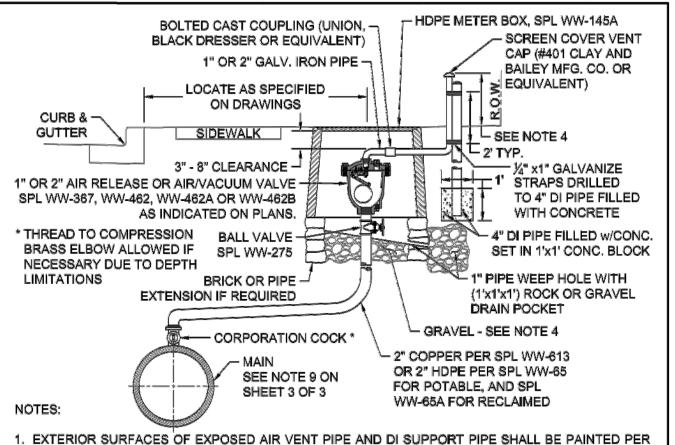
ADOPTED THIS STANDARD ARE PROHIBITED.

BY KATHI L FLOWERS









 EXTERIOR SURFACES OF EXPOSED AIR VENT PIPE AND DI SUPPORT PIPE SHALL BE PAINTED PER SPL WW-3C. POTABLE WATER PIPE SHALL BE PAINTED SAFETY BLUE.
 AIR VENT PIPE INSTALLATION SHALL BE AS NEAR AS PRACTICAL TO RIGHT-OF-WAY LINE WITH

MINIMUM CLEARANCE OF 18" FROM ANY OBSTACLE.

3. HDPE METER BOX PENETRATION SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED WITH

LINKSEAL LS 300 OR APPROVED EQUAL.

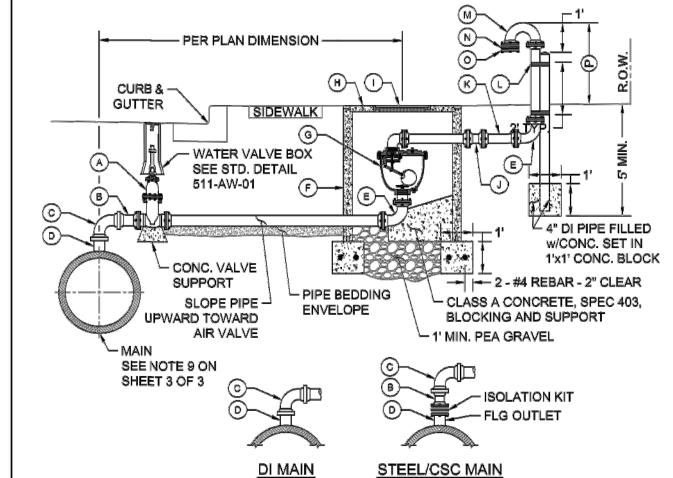
4. COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH SAND SLOPED TO DRAIN.
5. IN UNDEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 4' MIN. IN HEIGHT SUPPORTED BY A 4" DIA. DI PIPE WHICH HAS BEEN FILLED WITH CONCRETE (SUPPORT PIPE SHALL BE 6' LONG, BURIED IN CLASS A CONCRETE OR CLSM 3' BELOW FINAL GRADE AND EXTENDING 3' ABOVE FINAL GRADE). INSTALL ONE DELINEATOR STAKE WITHIN 3' OF THE VAULT ON THE VEHICULAR ACCESS SIDE OF VAULT OR AS DIRECTED BY AUSTIN WATER. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES. IN DEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 8" - 12" IN HEIGHT AND LOCATED NOT TO CONFLICT WITH SIDEWALK, DRIVEWAY, OR OTHER PEDESTRIAN TRAFFIC.

THE AIR VALVE AND ASSOCIATED PIPING SHALL BE INSTALLED ABOVE THE HIGHEST ELEVATION OF THE WATER MAIN. AIR VALVE PIPING, FROM THE WATER MAIN TO THE AIR VALVE, SHALL MAINTAIN A CONSTANT RISE, WITH NO DIPS, TO THE TOP OF THE GROUND.

### 1" - 2" AIR RELEASE OR AIR/VACUUM VALVE INSTALLATION - TYPE I

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER		AIR RELEASE AND AIR/VACUUM VALVE		
RECORD COPY SIGNED BY KATHI L FLOWERS	05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 511-AW-04 1 OF 3	



A. GATE VALVE (FLG x FLG). GATE VALVE SHALL NOT BE INSTALLED DIRECTLY ABOVE WATER MAIN.

B. PIPE FLG x FACTORY RESTRAINED JOINT SPIGOT END.
C. 90° BEND w/FACTORY RESTRAINED JOINT BELL ENDS, SPL WW-27F.

D. FOR DI MAIN: WELDED-ON OUTLET W/FACTORY RESTRAINED JOINT SPIGOT END.
FOR STEEL/CSC MAIN: WELDED-ON FLANGED OUTLET W/ISOLATION KIT AND FLG x FACTORY

E. 90° BEND (FLG x FLG).

F. CLASS III RCP VAULT 60" MIN. I.D.

RESTRAINED SPIGOT END.

G. AIR RELEASE VALVE W/GOOSENECK PER AIR RELEASE VALVES FOR WATER SPL WW-367 OR AIR RELEASE/VACUUM RELIEF VALVES FOR POTABLE WATER SPL WW-462A OR AIR RELEASE/VACUUM RELIEF VALVES FOR RECLAIMED WATER SPL WW-462B OR AIR RELEASE/AIR VACUUM VALVE FOR WASTEWATER SPL WW-462B.

H. REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING).

I. COA FRAME AND 32" COVER WITH LETTERING MODIFIED FOR WATER.
 J. BOLTED CAST COUPLING (SMITH-BLAIR 441 OMNI CAST COUPLING OR APPROVED EQUAL).

K. AIR VENT PIPE, 3" PIPE - GALVANIZED IRON, 4" AND LARGER PIPE - DI ONLY.

L. ¼" x1" GALVANIZE STRAPS DRILLED TO 4" DI PIPE FILLED w/CONCRETE (SEE NOTE 7).

M. RETURN BEND (FLG x FLG).

N. No. 16 MESH BRASS CLOTH

O. COMPANION FLANGE (SEE NOTE 5).

P. 4' MIN. - UNDEVELOPED AREAS.

3" OR LARGER AIR/VACUUM VALVE INSTALLATION - TYPE II

CITY OF AUSTIN AUSTIN WATER		AIR RELEASE AND AIR/VAC	CUUM VALVE
RECORD COPY SIGNED BY KATHI L FLOWERS	05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 511-AW-04 2 OF 3

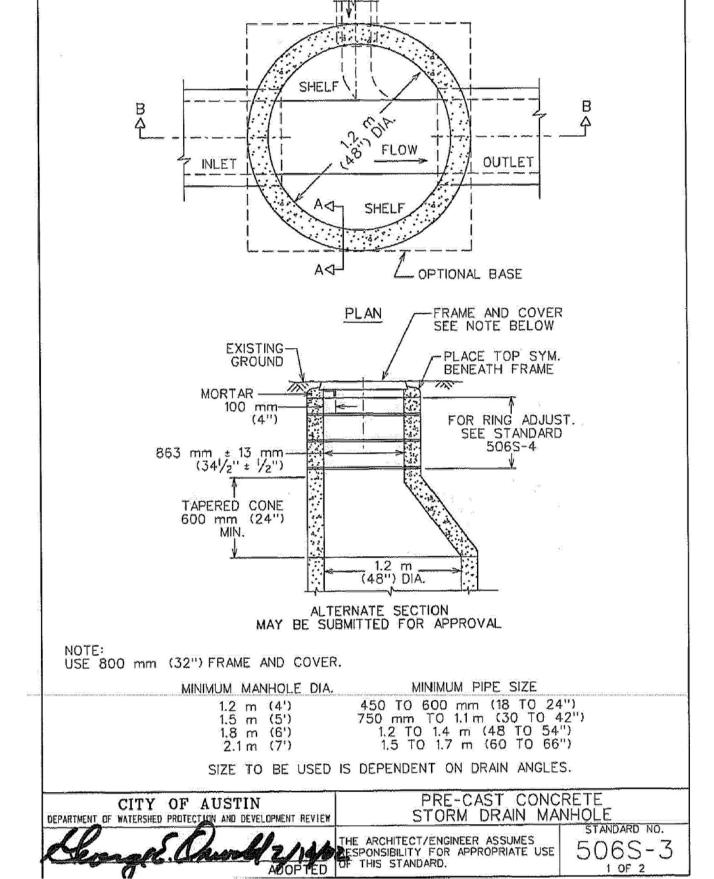
### NOTES:

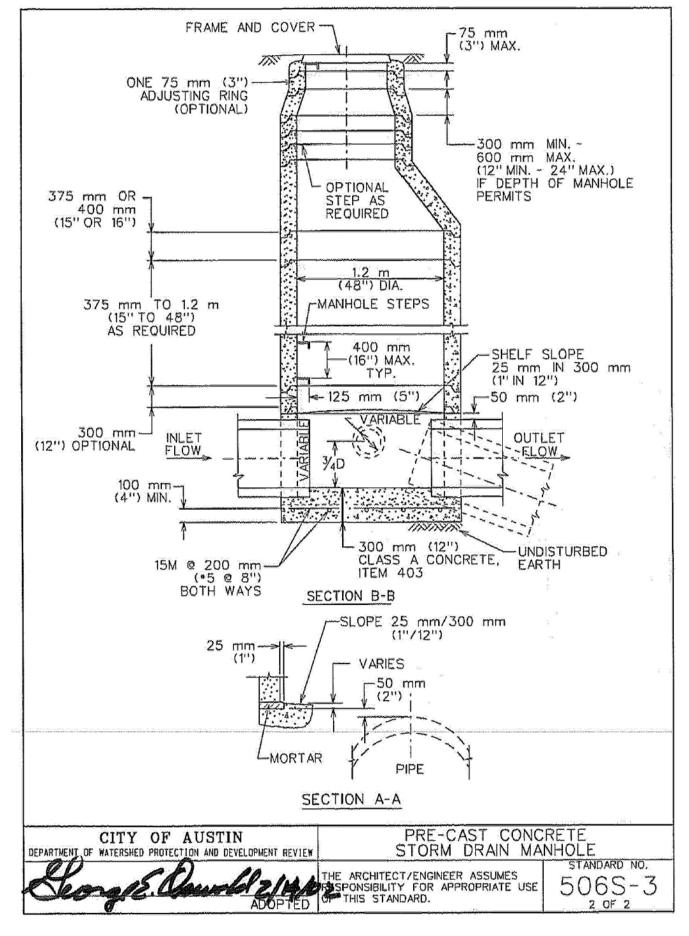
- ON 10" AND LARGER TWO PIECE COMBINATION AIR VALVES, THE OUTLET PIPING OF THE SMALL VALVE SHALL BE VENTED WITHIN THE VAULT INTO THE LARGER VENT PIPE
- AIR VENT PIPE 6" AND LARGER SHALL BE DI (CLASS 350 MIN.) PIPE FLANGE FITTINGS AND EXTERIOR SURFACES OF ALL EXPOSED PIPE SHALL BE PAINTED PER SPL WW-3C. POTABLE WATER PIPE SHALL BE PAINTED SAFETY BLUE. SURFACE PREPARATION SHALL BE PER PAINT MANUFACTURER'S REQUIREMENTS.
- 3. ENTIRE AIR VENT ASSEMBLY SHALL BE LOCATED WITHIN EASEMENT OR R.O.W.
- CONCRETE PIPE PENETRATIONS SHALL BE CORE BIT DRILLED. VOID SHALL BE SEALED W/LINKSEAL LS 300 OR APPROVED EQUAL.
- 5. CROSS SECTIONAL AREA OF OPENING TO BE EQUAL TO OR GREATER THAN CROSS SECTIONAL AREA OF AIR VENT PIPE.
- 6. AIR/VACUUM VALVE SHALL BE INSTALLED IN A MANNER WHICH WILL ALLOW REMOVAL OF ASSEMBLY WITHOUT REMOVAL OF PRECAST CONCRETE LID.
- IN UNDEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 4' MIN. IN HEIGHT SUPPORTED BY A 4" DIA. DI PIPE WHICH HAS BEEN FILLED WITH CONCRETE (SUPPORT PIPE SHALL BE 6' LONG, BURIED IN CLASS A CONCRETE OR CLSM 3' BELOW FINAL GRADE AND EXTENDING 3' ABOVE FINAL GRADE). INSTALL ONE DELINEATOR STAKE WITHIN 3' OF THE VAULT ON THE VEHICULAR ACCESS SIDE OF VAULT OR AS DIRECTED BY AUSTIN WATER. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES. IN DEVELOPED AREAS, THE AIR VENT PIPE SHALL BE LOCATED NOT TO CONFLICT WITH SIDEWALK, DRIVEWAY, OR OTHER PEDESTRIAN TRAFFIC.
- 8. GATE VALVE, PIPE, AND FITTINGS FROM MAIN TO ARV SHALL BE OF EQUAL DIAMETER AS THE AIR VALVE EXCEPT 3" ARV SHALL HAVE 4" FITTINGS AND A 4"x3" REDUCER AT THE ARV, AND ALL PIPE AND FITTINGS ON THE OUTLET SIDE OF THE ARV SHALL BE EQUAL TO THE SIZE OF THE OUTLET OF THE ARV. VAULTS SHALL BE 5' DIAMETER FOR 3" VALVE; 6' DIAMETER FOR 4", 6", AND 8" VALVES: AND 7' DIAMETER FOR 10" AND 12" VALVES.
- 9. FOR 24" AND LARGER MAINS, AN 18" OUTLET WITH BLIND FLANGE SHALL BE INSTALLED AT CONNECTION OF ARV.

### 3" OR LARGER AIR/VACUUM VALVE INSTALLATION - TYPE II

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

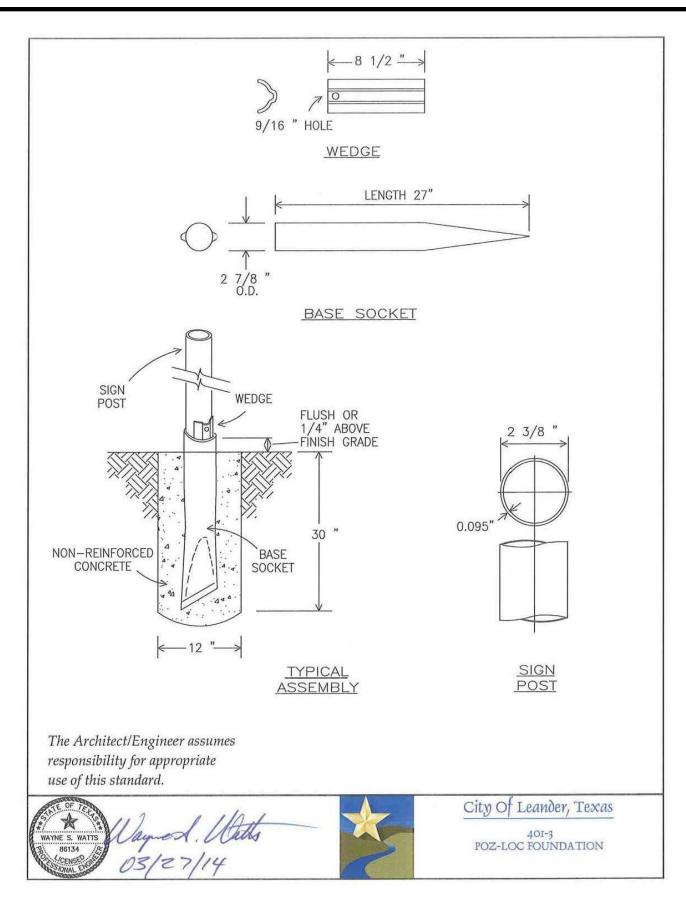
CITY OF AUSTIN AUSTIN WATER		AIR RELEASE AND AIR/VACUUM VALVE		
RECORD COPY SIGNED BY KATHI L FLOWERS	05/18/2016 ADOPTED	THE ENGINEER/ARCHITECT ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD. MODIFICATIONS TO THIS STANDARD ARE PROHIBITED.	STANDARD NO. 511-AW-04 3 OF 3	

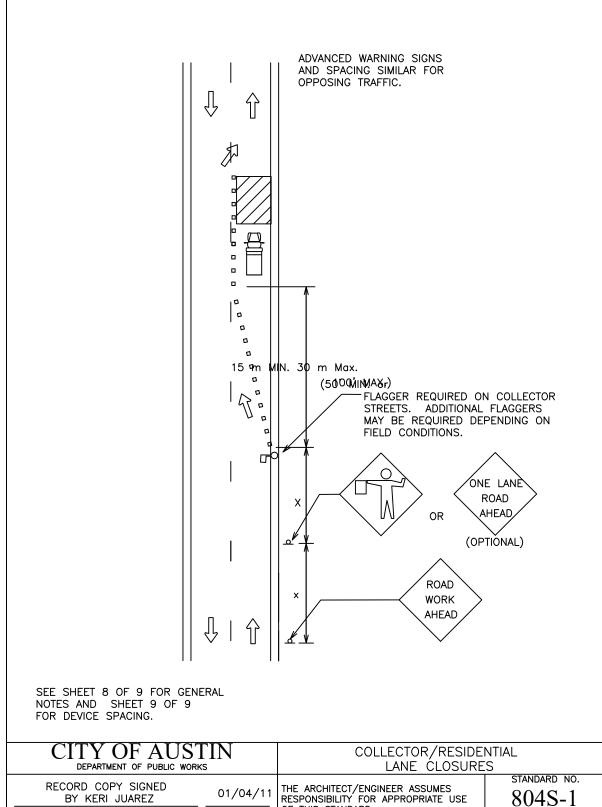




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- I. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
- 2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5. SHEETS 5, 6 AND 7 OF 11.
- 3. FOR INTERMEDIATE-TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
- 4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN
- 5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3.
- 6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED.
- 7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.

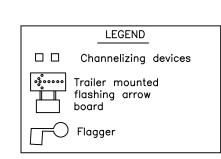
ADJACENT LANES.

- 8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION
- 9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD
- 10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24-HOUR A DAY LANE CLOSURE SET-UPS.

# Typical Transition Lengths and

Suggested Maximum Spacing of Devices Minimum Desirable Suggested Max.

			Minimu	ım Desira	n Desirable		d Max.	Suggested	
			Taper Lengths (L)			Device Spacing		Sign Spacing	
			Meters (Feet)					Meters (Feet)	
Speed KMPH	Posted Speed MPH	Formula	3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	On a taper Meters (feet)	On a tangent Meters (feet)	"X" Dimension	
50	30	2	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)	
55	35	L= <u>WS</u> <sup>2</sup>	65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)	
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)	
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)	
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)	
90	55	L=WS	165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)	
95	60		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)	
105	65		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)	
115	70		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)	



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS DEVICE SPACING RECORD COPY SIGNED 01/04/11 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE 804S-1 804S-1 BY KERI JUAREZ ADOPTED OF THIS STANDARD.

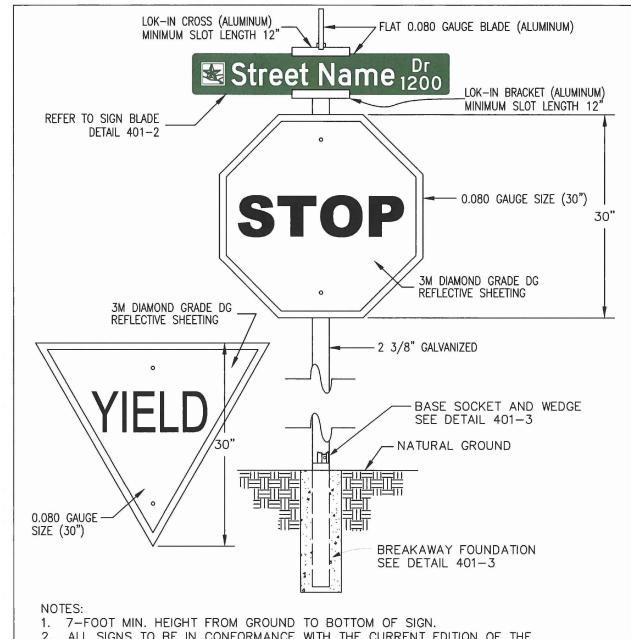


- 1. INSTALL 4" DIAMETER STAINLESS STEEL "NO DUMPING DRAINS TO CREEK" MARKER, FACTORY PAINTED BLUE AS SHOWN, 2" ABOVE VERTICAL FACE OF INLET AT MIDPOINT OF ALL INLETS. 2. MARKER SHALL BE AFFIXED TO SURFACE WITH ADHESIVE PER MANUFACTURER'S RECOMMENDATIONS.
- 3. MARKER SHALL BE MANUFACTURED BY ALMATEK INDUSTRIES OR APPROVED EQUAL: ALMATEK INDUSTRIES, INC. 2 JOY DRIVE HACKETTSTOWN, NJ 07840 (800) 248-2080 WWW.ALMATEK.COM





City Of Leander, Texas DETAIL #303-3 STORM DRAIN MARKERS

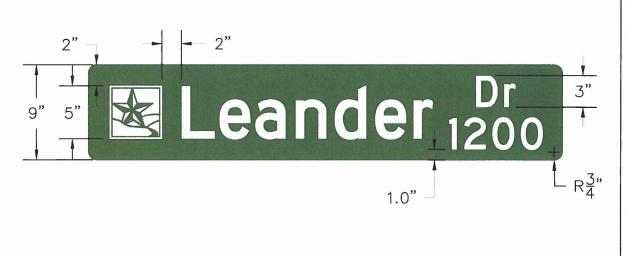


2. ALL SIGNS TO BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).

3. ALL SIGNAGE SHEETINGS SHALL BE 3M DIAMOND GRADE DG REFLÉCTIVE SHEETING. The Architect/Engineer assumes



City Of Leander, Texas



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

RECORD COPY SIGNED

BY KERI JUAREZ

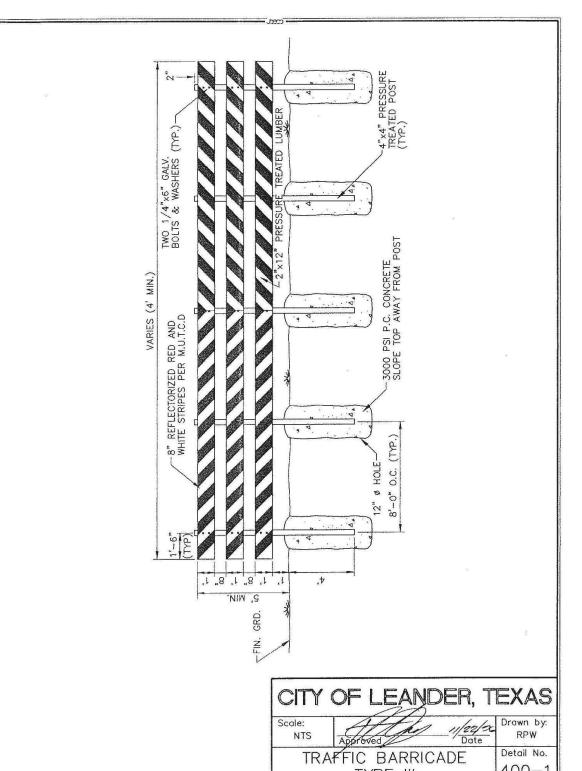
### STREET NAME SIGNS:

### 1) HEIGHT SHALL BE EITHER:

- a) 9 INCHES WITH 5-INCH UPPER CASE AND 3.75-INCH LOWER CASE LETTERING ON STREETS WITH SPEED LIMITS 40 MPH OR LESS OR ON STREETS WITH ANY SPEED LIMIT THAT HAVE NO MORE THAN TWO LANES:
- b) 12 INCHES WITH 8-INCH UPPER CASE AND 6-INCH LOWER CASE LETTERING ON STREETS WITH SPEED LIMITS GREATER THAN 40 MPH AND MORE THAN TWO LANES. 2) 0.080 INCH THICK ALUMINUM BLANK. LENGTH DEPENDENT ON STREET NAME WITH A MINIMUM OF 24 INCHES.
- COVERED ON BOTH SIDES WITH 3M HIGH INTENSITY GRADE, WHITE, PRISMATIC REFLECTIVE SHEETING (3M NUMBER 3930). STREET NAME WILL BE CUT OUT OF GREEN, 3M ELECTRO CUT FILM (3M NUMBER 1177). 3) SIGN BLADES SHALL BE A MINIMUM OF TWENTY-FOUR INCHES (24") IN LENGTH AND A MAXIMUM OF FIFTY-FOUR INCHES
- (54") IN LENGTH. 4) STREET DESIGNATION (DR, ST, TRL, RD, ETC.) IN UPPER RIGHT-HAND CORNER, BEGINNING BLOCK NUMBER UNDERNEATH. 5) CITY LOGO WILL BE PLACED ON THE LEFT-HAND SIDE OF THE SIGN AS SHOWN IN THE ABOVE ILLUSTRATION. LOGO SHALL
- BE CUT OUT OF GREEN ELECTRO CUT FILM AND SHALL BE OF THE SAME HEIGHT AS THE UPPER-CASE LETTERING. 6) ALL FONTS SHALL BE TRAFFIC CAD SERIES D OR FHWA SERIES D. SERIES C OR B LETTERING MAY BE USED TO WHERE USE OF
- SERIES D LETTERING WILL RESULT IN SIGN BLADES LENGTHS GREATER THAN FIFTY-FOUR INCHES (54"), 7) NO WATER-BASED ADHESIVES ARE PERMISSIBLE FOR USE IN ANY PART OF SIGN.



DETAIL #401-2



SUBDIVISION ONE

SHEET <b>51</b>										
DRAWING SCALE:		SURVEYED:	FILE NAME:	DATE:	DRAWN:	DESIGNED:				
HORIZ.=	VERT.=		RR		JTC	EEI				

ADOPTED OF THIS STANDARD.

responsibility for appropriate use of this standard.

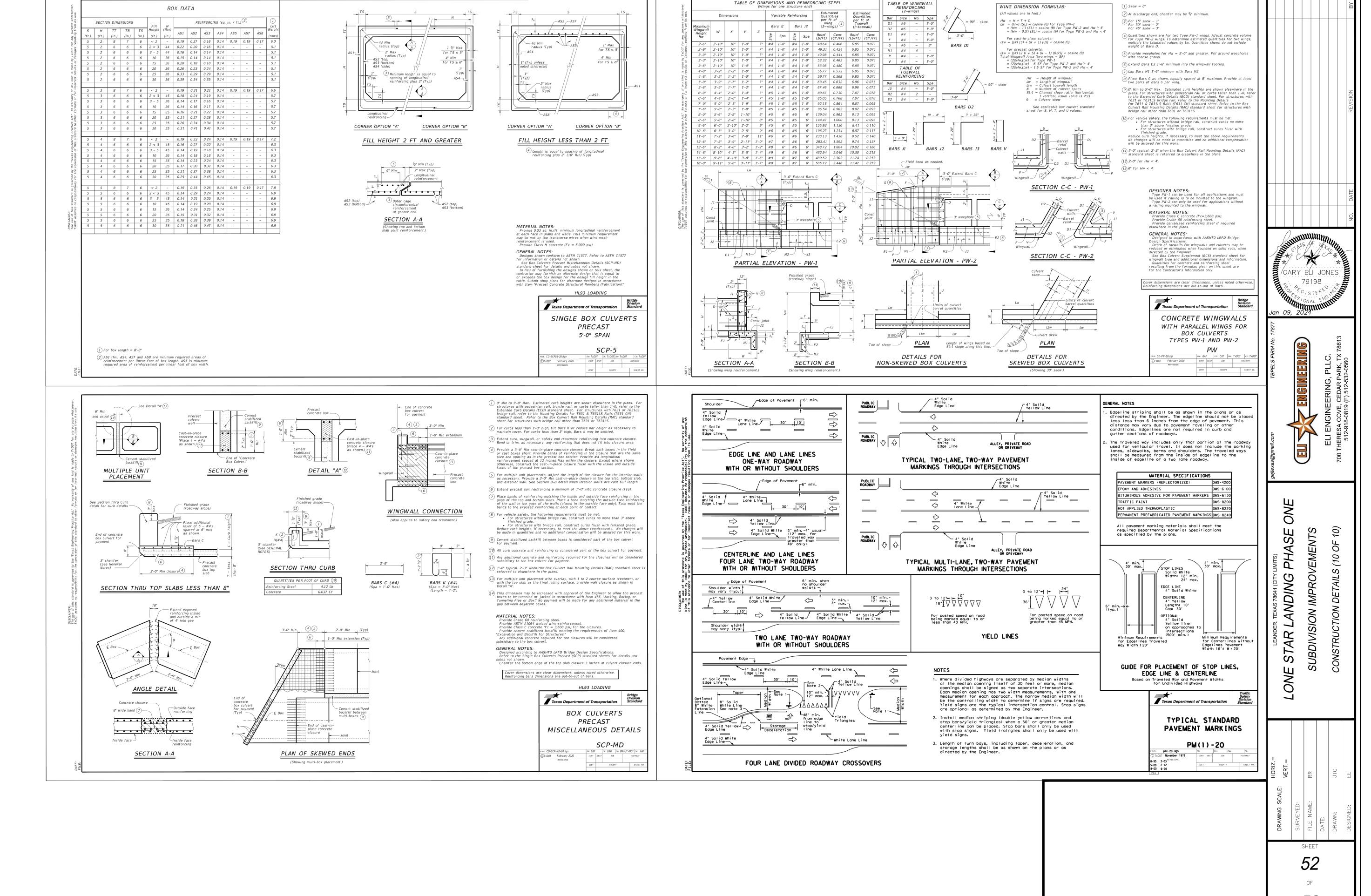
STREET SIGNS

City Of Leander, Texas STREET NAME SIGN BLADES

GENERAL NOTES

01/04/11 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE

ADOPTED OF THIS STANDARD.





Firm # 17877

February 18, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing Phase 1
Contributing Zone Plan Permit
Attachment N-Inspection, Maintenance, Repair and Retrofit Plan

### To Whom It May Concern:

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

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

Gary Eli Jones, P.E. Authorized Agent



Firm # 17877

February 18, 2024

Mr. Mallikarjun Gilakattula Lone Star Landing Texas, LLC 3320 Prentiss Lane Leander, TX 78641

Re: Lone Star Landing Phase 1
Contributing Zone Plan
Attachment N – CZP - Operation & Maintenance Plan for BMP

To Mr. Gilakattula:

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

#### General Guidelines:

- Accessibility: You should maintain accessibility to the BMP at all times. Equipment and personnel required to maintain and inspect the BMP should not be obstructed under reasonable conditions. Due to the vertical walls on the entire perimeter of the pond, maintenance access will be provided via 6-ft access gates located at the curb openings to each side of the ponds. The vertical drop is less than four (4) feet therefore, access with small ladders with trimmers can be used to mow and maintain the pond. Larger equipment will have to be lifted down into the pond from the asphalt paved drive adjacent to the pond.
- Material Disposal: Stormwater pollutants include a variety of substances that are deposited in the BMP. Federal and state laws and regulations may apply to the disposal of substances removed from the BMP. In order to dispose of substances removed from the BMP you must 1) characterize the waste 2) classify the waste based on character 3) properly dispose the waste according to current state (30TAC 330 or 335) and federal rules (40 CFR Subchapter C or D). The sediment must be determined inert for on-site disposal.

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

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

#### Maintenance Guidelines for Batch Detention Basins

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

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

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

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

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

**Nuisance Control.** Standing water or soggy conditions may occur in the basin. Some standing water may occur after a storm event since the valve may close with 2 to 3 inches of water in the basin. Some flow into the basin may also occur between storms

due to spring flow and residential water use that enters the storm sewer system. Twice a year, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

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

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

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

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

Sincerely,

Concurrence & Acceptance:

Gary Eli Jones, P.E.

Mallik Gilakattula



Firm # 17877

April 8, 2024

Texas Commission on Environmental Quality Region 11 Field Office (Austin) 2800 S. IH 35, Suite 100 Austin, Texas 78704

Re: Lone Star Landing

**Contributing Zone Permit** 

**Attachment P-Measures for Minimizing Surface Stream Contamination** 

#### To Whom It May Concern:

The permanent BMP that is proposed is a batch detention pond on the lower elevations of the project. The batch detention pond will provide permanent water quality controls. Temporary BMP;s will be provided to minimize and control contamination during construction until permanent vegetation is established.

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

Gary Eli Jones, P.E.

Authorized Agent

### **Temporary Stormwater Section**

**Texas Commission on Environmental Quality** 

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

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

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

### Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

executive director approval. The application was prepared by:

Print Name of Customer/Agent: Gary Eli Jones, P.E.

Date: 2/18/2024

Regulated Entity Name: Lone Star Landing Phase 1

### **Project Information**

Signature of Customer/Agent:

### **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.

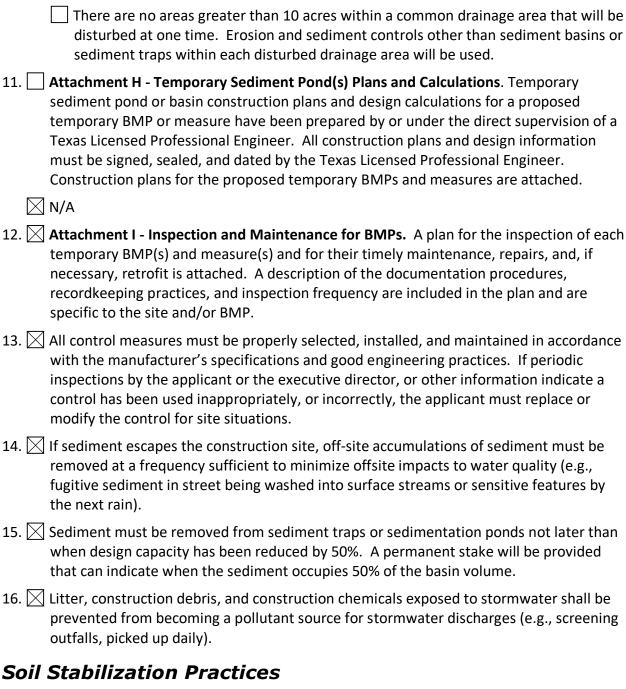
	<ul> <li>Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.</li> <li>Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.</li> </ul>
	igstyle igstyle 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.
S	equence 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.
	<ul> <li>For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.</li> <li>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.</li> </ul>
<b>5</b> .	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: 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:

	<ul> <li>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.</li> <li>A description of how BMPs and measures will prevent pollution of surface water or</li> </ul>
	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.



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

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

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

### Administrative Information

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

### **ATTACHMENT "A"**

### **Spill Response Actions**

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

#### Spill Prevention and Control:

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

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

#### Education

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

#### **General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.

- (6) Spills should be covered and protected from stormwater runon during rainfall to the extent that it doesn't compromise clean up activities.
- (7) Do not bury or wash spills with water.
- 1-118
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

#### Cleanup

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

#### Minor Spills

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

1-119

#### Semi-Significant Spills

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

Spills should be cleaned up immediately:

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

### Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
- (2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.
- (3) Notification should first be made by telephone and followed up with a written report.
- (4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.
- (5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc. More information on spill rules and appropriate responses is available on the TCEQ website at: <a href="https://www.tceq.texas.gov/response/spills">https://www.tceq.texas.gov/response/spills</a>.

### Vehicle and Equipment Maintenance

- (1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- (2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- (4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- (5) Place drip pans or absorbent materials under paving equipment when not in use.
- (6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- (7) Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- (8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute

stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.

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

### Vehicle and Equipment Fueling

- (1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.
- (2) Discourage "topping off" of fuel tanks.
- (3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

#### **Concrete Washout Areas**

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

The following steps will help reduce stormwater pollution from concrete wastes:

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

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

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

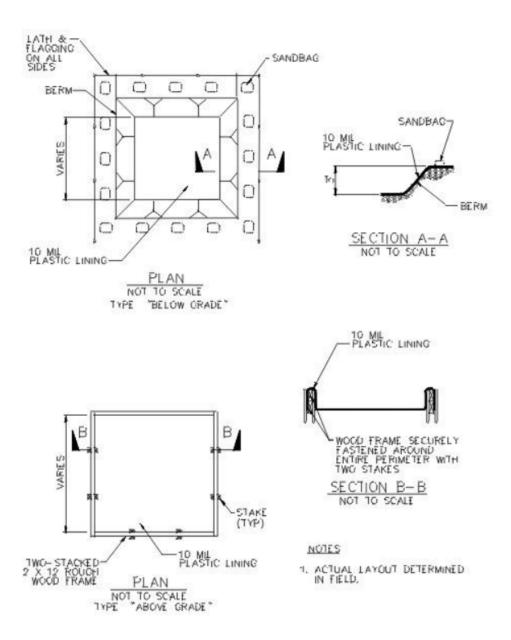


Figure: Schematics of Concrete Washout Areas

### **REPORTABLE QUANTITIES (RQ)**

Refer to: (https://www.tceq.texas.gov/response/spills/spill\_rq.html)

Kind of spill	Where discharged	Reportable quantity	Rule, statute, or responsible agency
Hazardous substance	onto land	"Final RQ" in Table 302.4 in	30 TAC 327 ☑
	into water	"Final RQ" or 100 lbs, whichever is <b>less</b>	
Any oil	coastal waters	as required by the Texas General Land Office	Texas General Land Office ☑
Crude oil, oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)	30 TAC 327 ☑
	directly into water	enough to create a sheen	
Petroleum product, used oil	onto land, from an exempt PST facility	210 gallons (five barrels)	30 TAC 327 1₹
	onto land, or onto land from a non-exempt PST facility	25 gallons	
	directly into water	enough to create a sheen	
Associated with the exploration, development and production of oil, gas, or geothermal resources	under the jurisdiction of the Railroad Commission of Texas	as required by the Railroad Commission of Texas	Railroad Commission of Texas ♂
Industrial solid waste or other substances	into water	100 lbs	30 TAC 327 ♂
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water	<b>30 TAC 334</b> ☑ .75-81
From petroleum storage tanks, underground or aboveground	onto land	25 gallons or equal to the RQ under <b>40 CFR</b> <b>302</b> $\[ \]^{3}$	30 TAC 327 17
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs	30 TAC 327 ☑

### **ATTACHMENT "B"**

### **Potential Sources of Contamination**

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

### **ATTACHMENT "C"**

## **Sequence of Major Activities**

<u>De</u>	<u>scription</u>	Area (acres)
1.	Install all erosion control	1.82
2.	Conduct pre-construction conference	N/A
3.	Excavate ponds	0.80
4.	Establish subgrade on site	2.68
5.	Install all Wastewater lines	1.12
6.	Install all Water lines	1.09
7.	Install all Storm drain and channels	1.69
8.	Process and compact subgrade to final grades	2.68
9.	Install paving	1.07
10.	Final grade ponds and outlet controls	0.80
11.	Install all landscape and irrigation, re-vegetate all disturbed areas	4.48
12.	Grading of Lots and home construction	10.56
13.	Remove temporary erosion control subsequent to establishment of	1.82
	vegetation	

### **ATTACHMENT "F"**

### **Structural Practices**

There will be channels and box culvert storm drain to convey the offsite drainage area through the site and around the proposed batch detention pond. This is the natural drainage pattern and the proposed drainage improvements will convey the offsite drainage through the property down to the floodplain where it has always drained. No improvements are proposed to divert storm water run-off from its existing drainage pattern. All unpaved areas will be re-vegetated according to City of Leander & TCEQ Specifications for re-vegetation of disturbed areas.

### **ATTACHMENT "D"**

### **Temporary Best Management Practices**

Silt fence and rock berms will be installed to intercept storm water runoff originating within the project, prior to discharge to existing drainage conveyances.

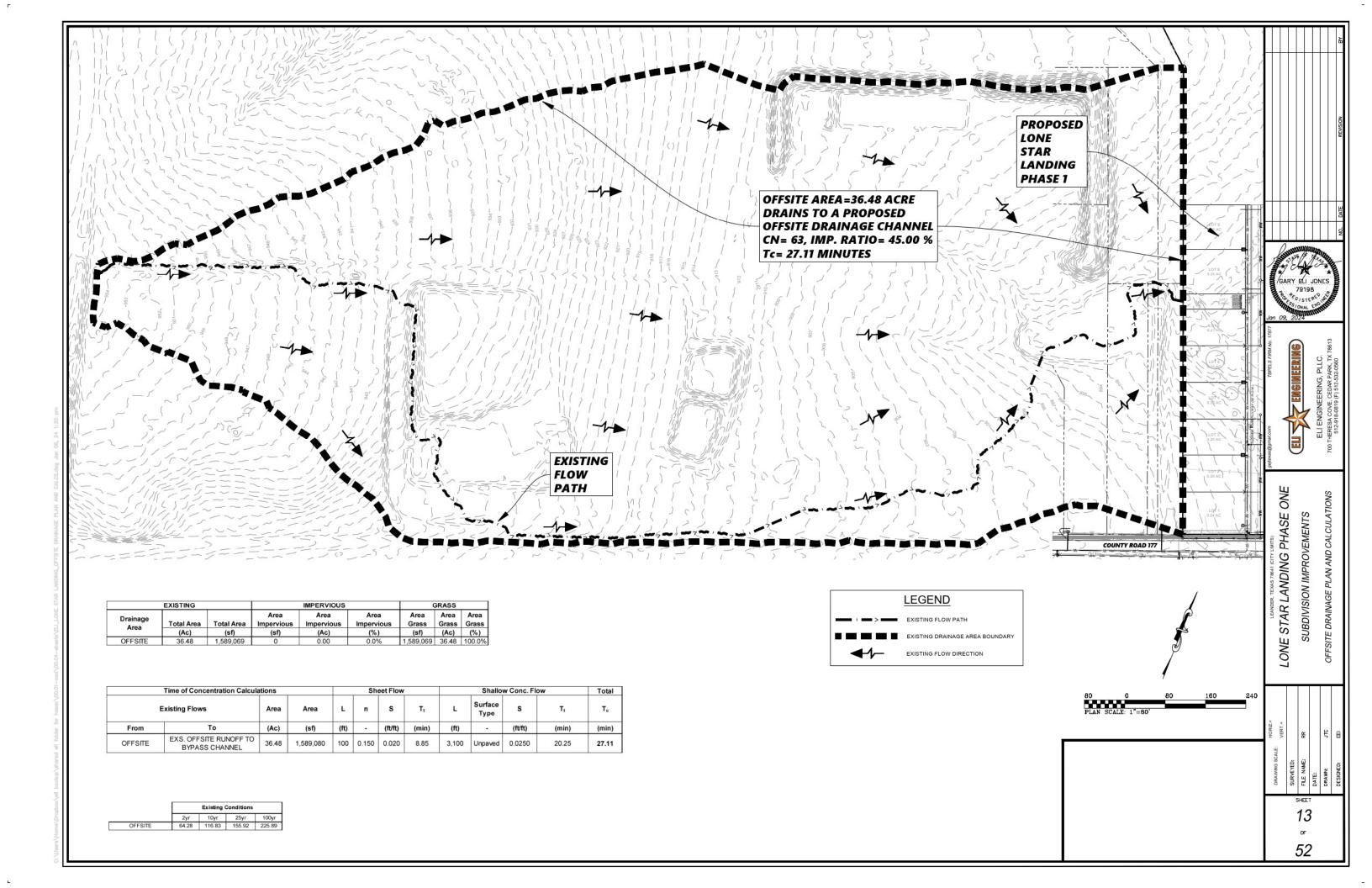
A stabilized construction entrance will be installed at both proposed roadways off of CR 177 to minimize construction vehicles transporting sediment onto neighboring roadways. This site contains no surface streams.

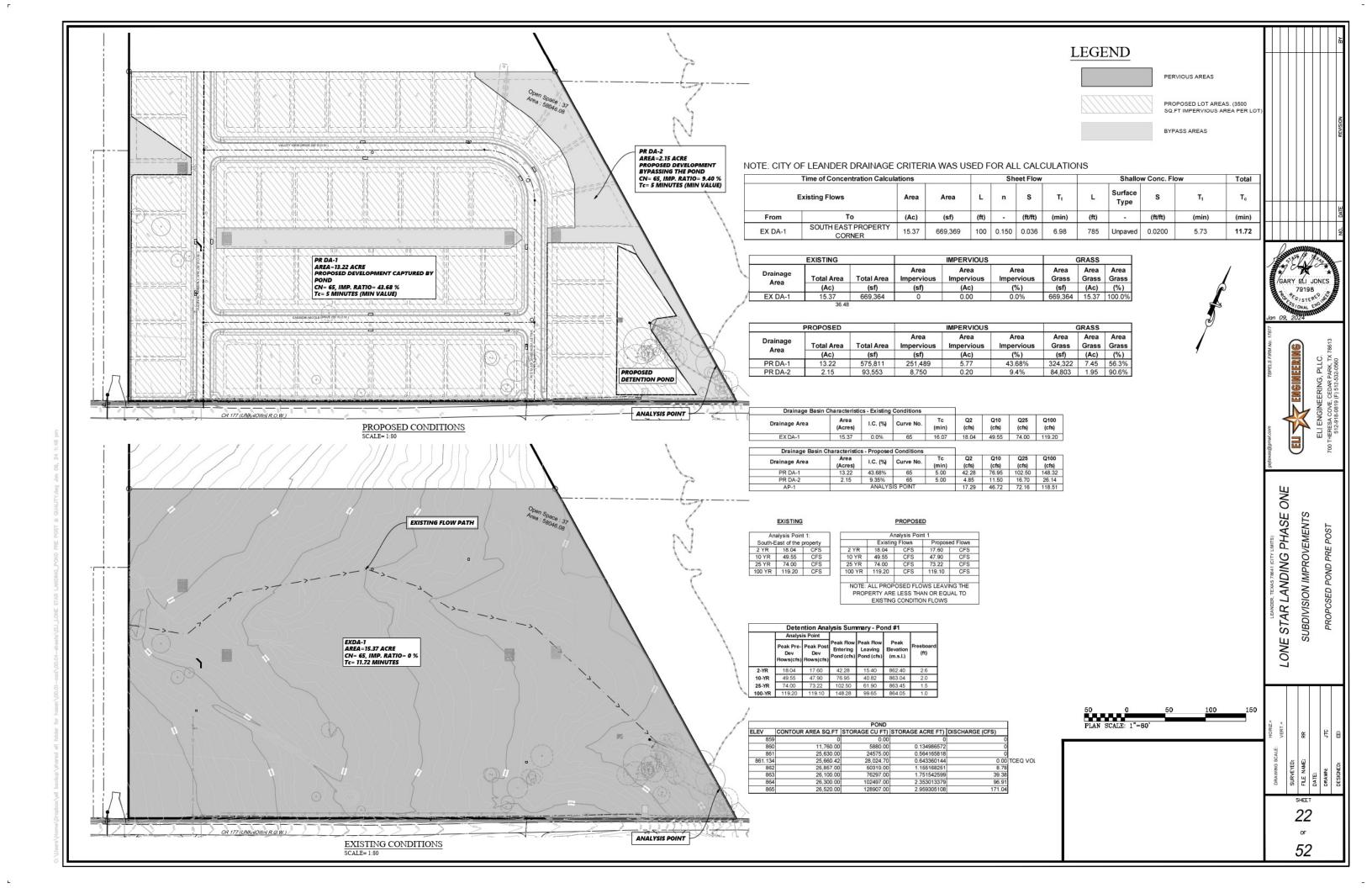
There will be a concrete washout on site for concrete trucks and a temporary staging & storage area to utilize during construction.

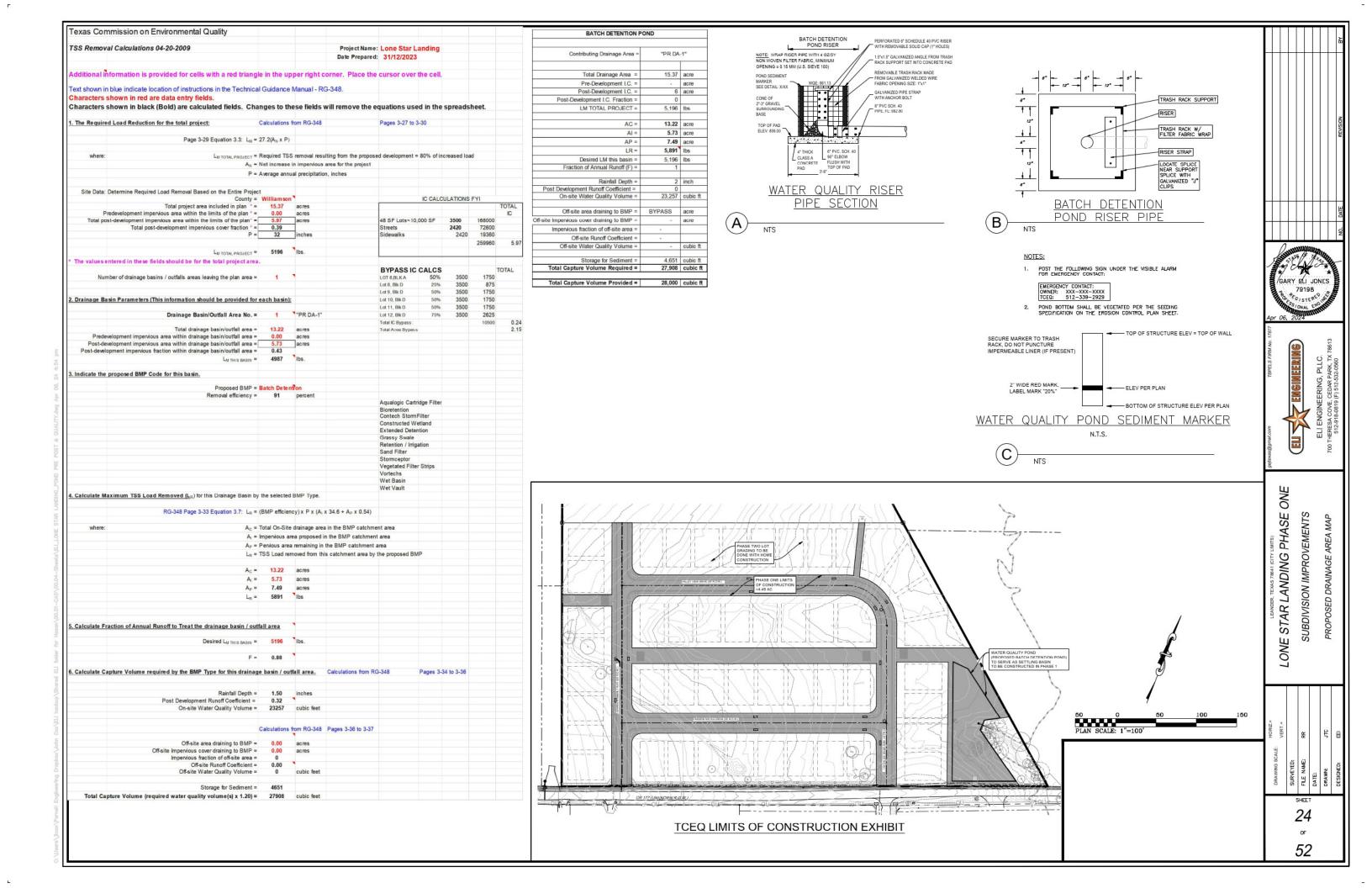
### **ATTACHMENT "G"**

### **Drainage Area Map**

Included in the attached Set of Construction Plans. There are no areas greater than 10 acres that will be disturbed at one time. The initial Phase 1 construction will include the streets, utilities and batch detention pond proposed for the subdivision. The limits of construction for the initial phase is 4.48 acres. Phase 2 will include construction of the homes and lot grading. The batch detention pond will effectively serve as a settling basin for Phase 1 and Phase 2 until permanent vegetation is established.







### **ATTACHMENT "I"**

### **Inspection & Maintenance for Temporary BMPs**

## SUMMARY OF EROSION AND SEDIMENT CONTROL MAINTENANCE/INSPECTION PROCEDURES

#### **Silt Fence Inspection and Maintenance Guidelines:**

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

#### **Inlet Protection Inspection and Maintenance Guidelines:**

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

#### Temporary Construction Entrance/Exit Inspection and Maintenance Guidelines:

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

- The site job superintendent will select the individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance reports.
- Personnel selected for inspection and maintenance responsibilities will receive training from the site job superintendent. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used onsite in good working order.

#### FINAL STABILIZATION/TERMINATION CHECKLIST

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

# CONTRIBUTING ZONE (CZP) INSPECTION AND MAINTENANCE REPORT FORM

STABILIZATION MEASURES					
INSPECTOR	:	DATE	E:		
QUALIFICA'	TIONS OF INSP	ECTOR:			
DAYS SINCE	E LAST RAINFA	ALL:	AMOUNT	OF LAST RAINI	FALL:
AREA	DATE SINCE LAST RAINFALL	DATE OF NEXT DISTURBANCE	STABILIZED? (YES/NO)	STABILIZED WITH	CONDITION
STABILIZAT	TION REQUIRE	D:			
TO BE PERF	ORMED BY:		ON OR E	BEFORE:	

# CONTRIBUTING ZONE (CZP) INSPECTION AND MAINTENANCE REPORT FORM

SILI FENCE	
INSPECTOR:	DATE:
QUALIFICATIONS OF INSPECTOR:	
DAYS SINCE LAST RAINFALL:	AMOUNT OF LAST RAINFALL:
IS THE BOTTOM OF THE FABRIC STILL BURIEDS	?
IS THE FABRIC TORN OR SAGGING?	
ARE THE POSTS TIPPED OVER?	
HOW DEEP IS THE SEDIMENT?	
MAINTENANCE REQUIRED FOR SILT FENCE:	
TO BE PERFORMED BY:	ON OR BEFORE:

## CONTRIBUTING ZONE (CZP) INSPECTION AND MAINTENANCE REPORT FORM

## 

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION EXIT:

TO BE PERFORMED BY: \_\_\_\_\_ ON OR BEFORE: \_\_\_\_

### **ATTACHMENT "J"**

### Schedule of Interim and Permanent Soil Stabilization Practices

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

### **Agent Authorization Form**

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

1	Mallik Gilakattula
	Print Name
	Member
	Title - Owner/President/Other
of	Texas Lone Star Landing, LLC Corporation/Partnership/Entity Name
have authorized	Gary Eli Jones, P.E. Print Name of Agent/Engineer
of	Eli Engineering, PLLC Print Name of Firm

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

#### I also understand that:

- 1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to \$10,000 per day per violation.
- 2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.
- 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:

THE STATE OF TEXAS §

County of Williamson &

BEFORE ME, the undersigned authority, on this day personally appeared Mallik Gilakatulla, 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 21 day of

Typed or Printed Name of Notary

HETAL PATEL My Notary ID # 124406090 Expires November 27, 2026

MY COMMISSION EXPIRES: 11.27.2026

## **Application Fee Form**

Texas Commission on Environmer Name of Proposed Regulated Entit Regulated Entity Location: 800 CR Name of Customer: Texas Lones St Contact Person: Mallik Gilakattula Customer Reference Number (if iss Regulated Entity Reference Number Austin Regional Office (3373)	y: <u>Lone Star Landing Ph</u> 177, Leander, TX 78641 <u>ar Landing, LLC</u> Phone sued):CN		
☐ Hays San Antonio Regional Office (3362	Travis	⊠ Wil	liamson
Bexar	Medina	Uva	lde
Comal	Kinney		
Application fees must be paid by c	heck, certified check, o	r money order, payable	e to the <b>Texas</b>
Commission on Environmental Qu	•	•	•
form must be submitted with you	r fee payment. This pa	yment is being submit	ted to:
Austin Regional Office	Sa	n Antonio Regional Of	fice
Mailed to: TCEQ - Cashier	_	vernight Delivery to: T(	
Revenues Section	<u>—</u>	2100 Park 35 Circle	
Mail Code 214		uilding A, 3rd Floor	
P.O. Box 13088		ustin, TX 78753	
Austin, TX 78711-3088		12)239-0357	
Site Location (Check All That Appl	•		
		□ +	
Recharge Zone	Contributing Zone	Iransiti	on Zone
Type of Pla	ın	Size	Fee Due
Water Pollution Abatement Plan,	Contributing Zone		
Plan: One Single Family Residenti	al Dwelling	Acres	\$
Water Pollution Abatement Plan,	Contributing Zone		
Plan: Multiple Single Family Resid	lential and Parks	Acres	\$
Water Pollution Abatement Plan,	Contributing Zone		
Plan: Non-residential		15.37 Acres	\$ 4000
Sewage Collection System		L.F.	\$
Lift Stations without sewer lines		Acres	\$
Underground or Aboveground Sto	orage Tank Facility	Tanks	\$
Piping System(s)(only)		Each	\$
Exception		Each	\$

Signature: \_

Each \$

Extension of Time

Date: 2/18/2024

### **Application Fee Schedule**

**Texas Commission on Environmental Quality** 

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

### Water Pollution Abatement Plans and Modifications

**Contributing Zone Plans and Modifications** 

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

Organized Sewage Collection Systems and Modifications

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

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

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

**Exception Requests** 

Project	Fee		
Exception Request	\$500		

**Extension of Time Requests** 

Project	Fee
Extension of Time Request	\$150



## **TCEQ Core Data Form**

TCEQ Use Only

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

### **SECTION I: General Information**

1. Reason for Submission (If other is checked please describe in space provided.)					
New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)					
Renewal (Core Data Form should be submitted with the renewal form) U Other					
2. Customer Reference Number (if issued) Follow this link to search 3. Regulated Entity Reference Number (if issued)					
CN  Follow this link to search for CN or RN numbers in Central Registry**  CN  Contral Registry**  CN  CN  CN  CN  CN  CN  CN  CN  CN					
ECTION II: Customer Information					
4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy) 05/21/2021					
New Customer Update to Customer Information Change in Regulated Entity Ownership Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
The Customer Name submitted here may be updated automatically based on what is current and active with the					
Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)  If new Customer, enter previous Customer below:					
Texas Lone Star Landing					
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits) 9. Federal Tax ID (9 digits) 10. DUNS Number (if applicable)					
0804384728 32082665699					
11. Type of Customer:					
Government:    City   County   Federal   State   Other   Sole Proprietorship   Other:					
12. Number of Employees  ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher ☐ 13. Independently Owned and Operated? ☐ Yes ☐ No					
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:					
⊠Owner       □ Operator       □ Owner & Operator         □ Occupational Licensee       □ Responsible Party       □ Voluntary Cleanup Applicant       □ Other:					
3220 Prentiss Lane					
15. Mailing Address:					
City Leander State TX ZIP 78641 ZIP+4 3372					
16. Country Mailing Information (if outside USA)  17. E-Mail Address (if applicable)					
mallik246@gmail.com					
18. Telephone Number 19. Extension or Code 20. Fax Number (if applicable)					
( 512 ) 761-8025					
ECTION III: Regulated Entity Information					
21. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application					
New Regulated Entity  ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information					
The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)					
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)					
U U U U U U U U U U U U U U U U U U U					

TCEQ-10400 (04/15) Page 1 of 2

	800 CF	R 177							
23. Street Address of the Regulated Entity:									
(No PO Boxes)	City	Leander	State	TX	ZIP	78	641	ZIP + 4	
24. County	Williamson								
,			ocation Descrip	tion if no	street addres	ss is prov	/ided.		
25. Description to						-			
Physical Location:	East an	d West side	s of Ronal Re	eagan Bl	lvd, just n	orth of	CR 258, 1	Liberty Hil	l, TX
26. Nearest City		State Nearest ZIF					rest ZIP Code		
Leander						TX		786	541
27. Latitude (N) In Dec	imal:	30.572990	) 28.		28. Longitud	8. Longitude (W) In Decima		ıl: -97.794870	
Degrees	Minutes		Seconds	1	Degrees		Minutes		Seconds
30		34	22.764	ļ.	97		4	47 41.53	
29. Primary SIC Code (4	digits) 30	. Secondary SI	C Code (4 digits)		rimary NAIC	S Code		econdary NAI	CS Code
1521				(5 or 6) 2361			(5 or 6	aigits)	
33. What is the Primary	Business of	this entity?	(Do not repeat the SI						
Single Family Resi		tino ontity i	Do not repeat the Gr	0 0/ /////00 0	occupacii.)				
				332	0 Prentiss L	ane			
34. Mailing									
Address:	City	Leande	r State	T	X ZIP		78641	ZIP + 4	
35. E-Mail Address		Leande	Otate		allik246@gm				
	none Numbe	r	37. Exter	nsion or C			38. Fax Num	ber (if applica	able)
-	761-8025						(	) -	•
39. TCEQ Programs and ID form. See the Core Data Form				ermits/regis	tration number	s that will b	oe affected by	the updates sub	mitted on this
Dam Safety	Districts		☐ Edwards Aq	ıuifer	☐ Emissi	ons Invent	ory Air	☐ Industrial Ha	zardous Waste
				14					
☐ Municipal Solid Waste	☐ New So	ource Review Air	OSSF		☐ Petrole	eum Storag	ge Tank	☐ PWS	
Sludge	Storm \	Vater	☐ Title V Air		Tires			Used Oil	
	<u> </u>								
☐ Voluntary Cleanup	☐ Waste	Water	☐ Wastewater Agriculture ☐ Water Rights			Other:			
SECTION IV: Pre	parer In	<u>formation</u>							
40. Name: Gary Eli	Jones				41. Title:	Desig	n Engine	er	
42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address									
(512)658-8095	( ) - gejtexas@gmail.com								
SECTION V: Aut	horized	Signature		_		_			
<b>46.</b> By my signature below, signature authority to submit identified in field 39.	I certify, to	the best of my k							

Company:	Eli Engineering, PLLC	Job Title:	Design Engineer		
Name(In Print): Ga	Sary 🗐 Jones			Phone:	(512)658-8095
Signature:	Syllf-			Date:	1/10/2022

TCEQ-10400 (04/15) Page 2 of 2