



Transmittal

Date: 11/21/2023
To: Texas Commission of Environmental Quality;
From: BGE, Inc. – Aaron Neumann, PE
Reference: Wimberley Ridge Contributing Zone Plan

Item No.	Number of Copies	Description
0.	1	Transmittal
1.	1	Contributing Zone Plan Checklist
2.	1	Edwards Aquifer Cover Page
3.	1	Contributing Zone Plan Application
4.	1	Temporary Storm Water Section
5.	1	Copies of Notice of Intent
6.	1	Agent Authorization Form
8.	1	Application Fee Form
9.	1	Check Payable to “Texas Commission on Environmental Quality”
10.	1	Core Data Form
11.	1	Owner Authorization Form

Comments: If you have any questions please feel free to give me a call at +1 (210) 581-3643 – Aaron Neumann

Contributing Zone Plan Checklist

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

- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the “Texas Commission on Environmental Quality”**
- **Core Data Form (TCEQ-10400)**

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

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

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

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

Technical Review

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

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Wimberly Ridge					2. Regulated Entity No.:				
3. Customer Name: Impact Commercial Services, LLC					4. Customer No.:				
5. Project Type: (Please circle/check one)	<input checked="" type="radio"/> New	Modification			Extension		Exception		
6. Plan Type: (Please circle/check one)	WPAP	<input checked="" type="radio"/> CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	<input checked="" type="radio"/> Residential		Non-residential			8. Site (acres):		+/- 20.55 acres	
9. Application Fee:	\$4,000		10. Permanent BMP(s):			Batch Detention Pond			
11. SCS (Linear Ft.):	N/A		12. AST/UST (No. Tanks):			N/A			
13. County:	Hays		14. Watershed:			Lower Blanco River			

Application Distribution

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

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

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

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

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

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

Antonio Rodriguez

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

Date

6-19-24

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

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

Contributing Zone Plan Application

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Antonio Rodriguez

Date: 06/19/2024

Signature of Customer/Agent:



Regulated Entity Name: Wimberley Ridge

Project Information

1. County: Hays
2. Stream Basin: Lone Woman-Cypress Creek Basin
3. Groundwater Conservation District (if applicable): Hays Trinity GCD
4. Customer (Applicant):

Contact Person: Hutchison Utt

Entity: Impact Commercial Services

Mailing Address: 1206 W. Slaughter Lane

City, State: Austin, TX

Telephone: (512) 531-9800

Email Address: mikel@impactcomsrv.com

Zip: 78748

Fax: _____

5. Agent/Representative (If any):

Contact Person: Antonio Rodriguez

Entity: BGE, Inc.

Mailing Address: 330 San Pedro Ave #202

City, State: San Antonio, TX

Zip: 78216

Telephone: +1 (210) 581-3600

Fax: _____

Email Address: trodriguez@bgeinc.com

6. Project Location:

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

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The project is in Hays County, 2.25 miles west of the City of Woodcreek ETJ and 2 miles northwest of the City of Wimberly ETJ, and is located along West Valley Spring Road 0.56 miles north of FM 2325

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

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

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

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

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

11. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☐ Existing industrial site
- ☐ Existing residential site
- ☐ Existing paved and/or unpaved roads
- ☒ Undeveloped (Cleared)
- ☐ Undeveloped (Undisturbed/Not cleared)
- ☐ Other: _____

12. The type of project is:

- ☒ Residential: # of Lots: 56
- ☐ Residential: # of Living Unit Equivalents: _____
- ☐ Commercial
- ☐ Industrial
- ☐ Other: _____

13. Total project area (size of site): 20.55 Acres

Total disturbed area: 21.69 Acres

14. Estimated projected population: 153

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

Table 1 - Impervious Cover

<i>Impervious Cover of Proposed Project</i>	<i>Sq. Ft.</i>	<i>Sq. Ft./Acre</i>	<i>Acres</i>
Structures/Rooftops	196,000	÷ 43,560 =	4.50
Parking	0	÷ 43,560 =	0
Other paved surfaces	107,864.4	÷ 43,560 =	2.48
Total Impervious Cover	303,864.4	÷ 43,560 =	6.98

Total Impervious Cover 6.98 ÷ Total Acreage 21.69 X 100 = 32.2% Impervious Cover

16. ☒ **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

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

☒ N/A

18. Type of project:

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

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

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

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

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

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

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

21. Pavement Area:

Length of pavement area: _____ feet.

Width of pavement area: _____ feet.

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

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

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

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

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

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

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

☐ N/A

26. Wastewater will be disposed of by:

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

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

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

☒ Sewage Collection System (Sewer Lines):

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

☒ Existing.

☐ Proposed.

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

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

☒ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

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

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

Total x 1.5 = _____ Gallons

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

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

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

Table 3 - Secondary Containment

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

Total: _____ Gallons

30. Piping:

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

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

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

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

- ☐ Dispenser clearly labeled
33. ☐ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.
- ☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
- ☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

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

34. ☒ The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 60'.
35. 100-year floodplain boundaries:
- ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
- ☒ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRM Panel 4809C0219F (09/01/2005).
36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
- ☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.
38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.
39. ☒ Areas of soil disturbance and areas which will not be disturbed.
40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
41. ☒ Locations where soil stabilization practices are expected to occur.
42. ☒ Surface waters (including wetlands).
☐ N/A

43. ☒ Locations where stormwater discharges to surface water.
☐ There will be no discharges to surface water.
44. ☐ Temporary aboveground storage tank facilities.
☒ Temporary aboveground storage tank facilities will not be located on this site.
45. ☐ Permanent aboveground storage tank facilities.
☒ Permanent aboveground storage tank facilities will not be located on this site.
46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

47. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
☐ N/A
48. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.
☐ N/A
49. ☒ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.
☐ N/A
50. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

- ☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
- ☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
- ☐ The site will not be used for low density single-family residential development.

51. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

- ☐ **Attachment I - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

52. ☒ **Attachment J - BMPs for Upgradient Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. ☒ **Attachment K - BMPs for On-site Stormwater.**

- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

54. ☒ **Attachment L - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

☐ N/A

55. ☒ **Attachment M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan.** A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

- ☒ Prepared and certified by the engineer designing the permanent BMPs and measures
- ☒ Signed by the owner or responsible party
- ☒ Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
- ☒ Contains a discussion of record keeping procedures

☐ N/A

57. ☐ **Attachment O - Pilot-Scale Field Testing Plan.** Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

☒ N/A

58. ☒ **Attachment P - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that result in water quality degradation.

☐ N/A

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

59. ☒ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be

responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

60. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

61. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions.
62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
- ☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.

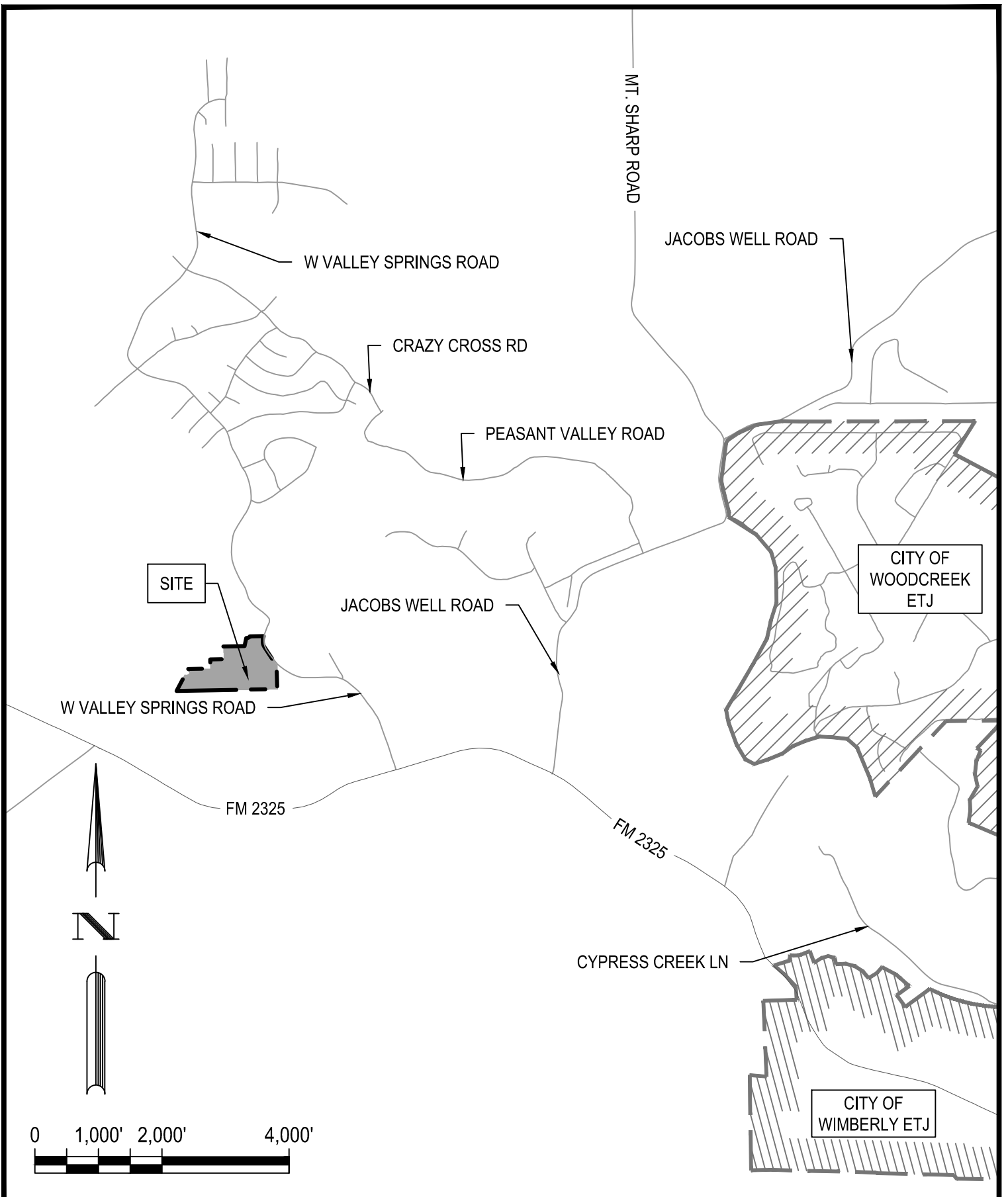


ATTACHMENT A

ROAD MAP

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ATTACHMENT A - ROAD MAP

WIMBERLY RIDGE

BGE, INC.
7330 SAN PEDRO AVENUE, SUITE 202
SAN ANTONIO, TX 78216
TBPE Registration No. F-1046
TEL: 210-581-3600 www.bgeinc.com



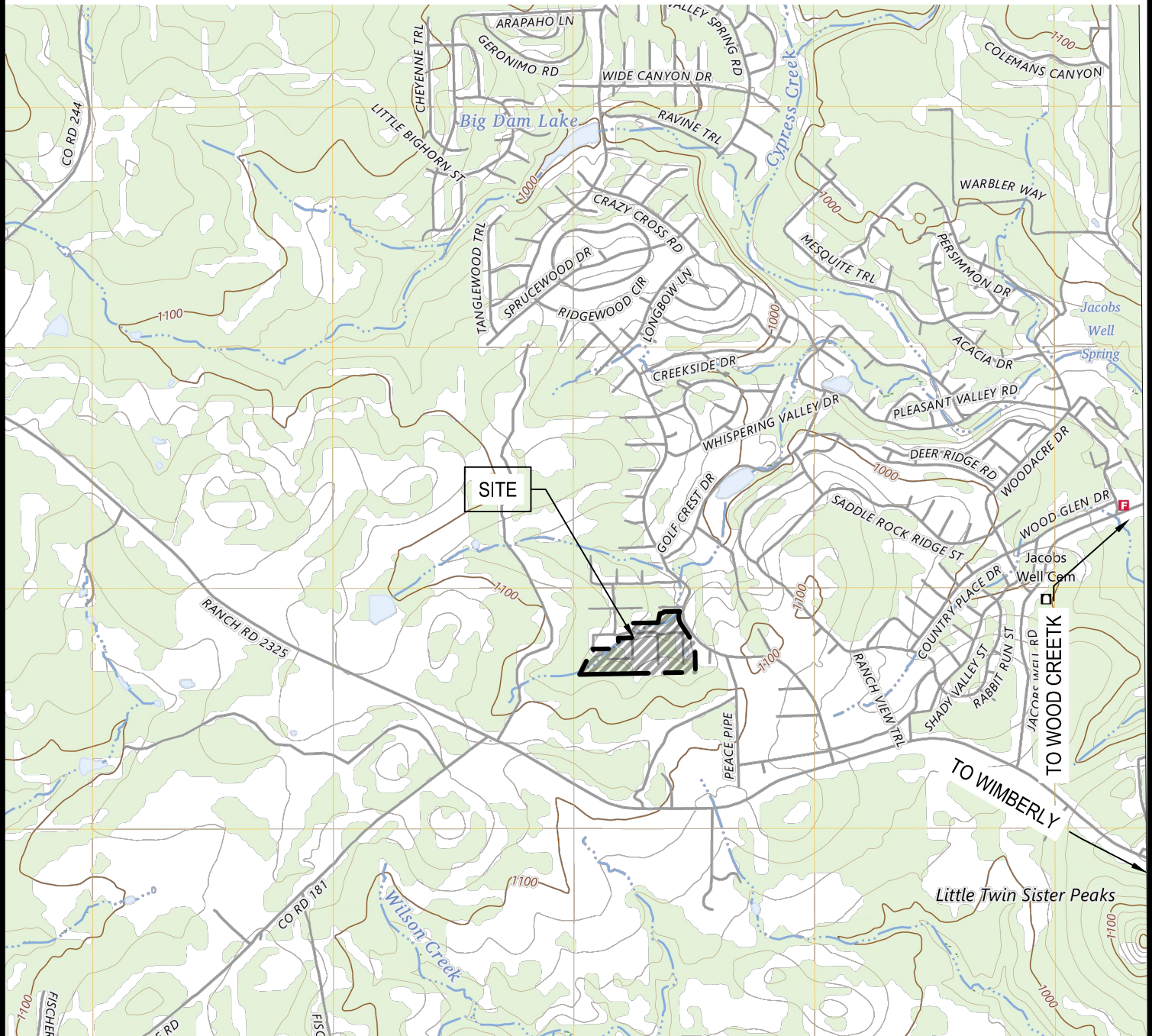


ATTACHMENT B

USGS QUADRANGLE MAP

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0 1,000' 2,000' 4,000'
SCALE: 1" = 2000'

USGS QUADRANGLE:
DRIFTWOOD, TX



ATTACHMENT B - USGS MAP

WIMBERLY RIDGE

BGE, INC.
7330 SAN PEDRO AVENUE, SUITE 202
SAN ANTONIO, TX 78216
TBPE Registration No. F-1046
TEL: 210-581-3600 www.bgeinc.com





ATTACHMENT C

PROJECT NARRATIVE

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment C: Project Narrative

Wimberly Ridge is a proposed single-family residential development located in Hays County, Texas. The project site is located 2.25 miles west of the City of Woodcreek ETJ and 2 miles northwest of the City of Wimberly ETJ, along West Valley Spring Road 0.56 miles north of FM 2325. The deeded property is 19.08 acres of single-family residential lots out of a previously platted subdivision named Woodcreek Section 25. Additionally, 2.61 acres of adjacent public ROW will be developed for the purpose of access, grading, and future drainage conveyance. Currently, the site is cleared land, with minimal brush and ground cover and is surrounded by privately owned properties to its north, west and south, with its eastern boundary being West Valley Springs Road.

Historically, the Woodcreek Section 25 subdivision, was designated for development, but has been undeveloped for close to 50 years, therefore demolition will not be required. Portions of the land have been cleared but the site will still need to be prepared for construction. The property will be developed into 56 single family residential lots. The project's scope includes prepping the site for construction, grubbing, and grading of the overall site, as well as installation of water, wastewater, and street and drainage improvements including drainage channels and a water quality batch detention pond acting as the BMP for the proposed site. The batch detention pond will regulate the disposal of TSS into the Contributing Zone of the Edwards Aquifer in accordance with the *Texas Commission on Environmental Quality's (TCEQ) Technical Guidance Manual (TGM) RG-348 (2005)*.

The total area for the development is 21.69 acres. The project consists of 4.50 acres of impervious cover for the 56 proposed residential lots, and 2.48 acres of impervious cover from streets and channels, for a total of 6.98 acres. The impervious cover of the site was calculated to be about 32.2% of the site. This increase in impervious cover has been considered in the proposed conditions section of the overall drainage study for the site.



ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment D: Factors Affecting Water Quality

Potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site during construction include:

- Soil erosion due to the clearing of the site.
- Oil, grease, fuel, and hydraulic fluid contamination from construction equipment and vehicle drippings.
- Hydrocarbons from asphalt paving operations.
- Miscellaneous trash and litter from construction operations and material wrappings.

Potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the site after construction include:

- Fertilizers, herbicides, and pesticides from agricultural operations.
- Oil, grease, fuel, and hydraulic fluid contamination from vehicle drippings.
- Dirt and dust that may fall off vehicles.
- Miscellaneous trash and litter.



ATTACHMENT E

VOLUME AND CHARACTER OF STORMWATER

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Contributing Zone Plan Application (TCEQ-10257)

Attachment E: Volume and Character of Stormwater

Wimberly Ridge is a 21.69-acre project with a singular watershed engulfing the site. At completion, the site will consist of about 32.8% impervious cover.

For an overview of sub-drainage and drainage areas please refer to the drainage area maps and calculations for the site, provided with this application.

To calculate the runoff flow from the site, a HEC-HMS 4.11 model was created to simulate the 2-year, 10-year, 25-year and 100-year storm events considering type III rainfall. Times of concentration and curve numbers were calculated using Technical Release-55 (TR-55). Below is a summary of the pre-development and post-development runoff from the batch detention pond:

CP-1

Pre-Development Runoff:

	CN	Area (acres)	Runoff (cfs)
Q ₁₀₀	78.3	151.5	903.5

Post-Development Runoff:

	CN	Area (acres)	Runoff (cfs)
Q ₁₀₀	79.7	151.5	903.3



ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment J: BMP For Upgradient Stormwater

Wimberly Ridge is a 21.69-acre project with a singular watershed engulfing the site. There are about 129.7 acres of watershed upgradient from the site. The upgradient area is composed of approximately 18.46 acres of good woods, 59.40 acres of fair woods, approximately 44.77 acres of fair grass and 7.07 acres of poor grass. There is minimal offsite impervious cover to account for. A system of channels on-site will convey the upgradient storm water to the water quality, batch-detention pond, where the runoff will be treated for pollutants before leaving the site.

For an overview of sub-drainage and drainage areas please refer to the drainage area maps and calculations for the site, provided with this application.



ATTACHMENT K

BMPs FOR ON-SITE STORMWATER

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment K: BMP For On-Site Stormwater

The proposed land use of Wimberly Ridge is single family residential development with about 32.8% of impervious cover within the limits of construction of 21.69 acres. Silt control fences are to be installed to prevent stormwater from carrying sediment offsite during construction. Construction entrances are to be placed to facilitate arrival and departure of construction vehicles without the addition of undue erosion. The runoff pollutants and TSS from the site will be treated in the water quality, batch detention pond to regulate the release of water into the Edwards Aquifer Contributing Zone in accordance with *TCEQ's Technical Guidance Manual (TGM) RG-348 (2005)*.



ATTACHMENT L

BMPs FOR SURFACE STREAMS

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment L: BMPs for Surface Streams

The proposed water quality detention pond is the only permanent BMP required for the site. Wimberly Ridge is single family residential development with about 32.8% of impervious cover within the limits of construction of 21.69 acres. The water quality, detention pond will reduce the amount of sediment, organic matter, pesticides before the runoff enters the offsite surface streams and Edwards Aquifer Contributing Zone.



ATTACHMENT M

CONSTRUCTION PLANS

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SUMMARY NOTES:

DEVELOPER/OWNER:	IMPACT COMMERCIAL SERVICES CONTACT: HUTCH UTT EMAIL: HUTCH@IMPACTCOMSRV.COM 1206 W. SLAUGHTER LANE AUSTIN, TEXAS 78748 PHONE: (512) 423-9834
ENGINEER:	BGE, INC., TBPE-1046 CONTACT: AARON NEUMANN, P.E. EMAIL: ANEUMANN@BGEINC.COM 7330 SAN PEDRO AVENUE SUITE 202 SAN ANTONIO, TEXAS 78216 PHONE: (210) 581-3600
SURVEYOR:	CHAPARRAL PROFESSIONAL LAND SURVEYING, INC. CONTACT: JOHN BRILEY, SIT EMAIL: JOHN@CHAPSURVEY.COM 3500 McCALL LANE AUSTIN, TEXAS 78744 PHONE: (512) 443-1724

FLOODPLAIN INFORMATION

NO PORTION OF THE LOT IN THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL 48209C0219F, EFFECTIVE 9/02/2005.

BENCHMARK

BM #1: SQUARE BOX CUT ON NORTH SIDE OF THE CONCRETE APPROACH OF SHILO CIRCLE.

ELEVATION = 1073.20'
VERTICAL DATUM: NAVD 88 (GEOID 18)

BM #2: "CH161" MAG NAIL WITH WASHER SET IN CONCRETE

SURFACE COORDINATES:
N 13922976.12
E 2239502.39

TEXAS STATE PLANE COORDINATES:
N 13921166.37
E 2239211.29

ELEVATION = 1056.35'
VERTICAL DATUM: NAVD 88 (GEOID 18)

GENERAL NOTES

A STORM WATER CONTROL MEASURES MAINTENANCE PLAN HAS BEEN PREPARED FOR THIS DEVELOPMENT AND IS RECORDED AS DOCUMENT # _____, IN THE PUBLIC RECORDS OF HAYS COUNTY, TEXAS

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST HAYS COUNTY STANDARD SPECIFICATIONS FOR CONSTRUCTION.

JURISDICTION:

HAYS COUNTY
EDWARDS AQUIFER AUTHORITY

UTILITY PROVIDERS:

WATER: AQUA TEXAS
SEWER: AQUA TEXAS
ELECTRIC: PEDERNALES ELECTRIC COOPERATIVE

SCHOOL DISTRICT:
WIMBERLEY ISD

HAYS COUNTY DIRECTOR OF TRANSPORTATION

WIMBERLEY RIDGE

HAYS COUNTY

CIVIL CONSTRUCTION DRAWINGS

WATER, SEWER, STREET, AND DRAINAGE IMPROVEMENTS

APRIL 2024

VICINITY MAP



REVISIONS/CORRECTIONS					
SHEET LIST	DESCRIPTION	DATE	REVISE (R) ADD (A) VOID (V) SHEET NO.'S	ACCEPTED BY	APPROVAL DATE

NOT FOR CONSTRUCTION

SUBMITTED BY



BGE, Inc.
7330 San Pedro Ave., Suite 202
San Antonio, TX 78216
Tel: 210-581-3600 • www.browngay.com
TBPE Registration No. F-1046

AARON J. NEUMANN, P.E.
BGE, INC. TBPE NO. F-1046
7330 SAN PEDRO AVENUE SUITE 202
SAN ANTONIO, TEXAS 78216
PHONE: (210) 581-3600

DATE:

Sheet List Table

Sheet Number	Sheet Title
1	TITLE SHEET
2	GENERAL NOTES SHEET (SHEET 1 OF 2)
3	GENERAL NOTES SHEET (SHEET 2 OF 2)
4	EXISTING CONDITIONS SURVEY
5	FINAL PLAT
6	OVERALL LAND PLAN
7	EROSION CONTROL PLAN
8	EROSION CONTROL DETAILS
9	EXISTING CONDITIONS DRAINAGE MAP
10	PROPOSED CONDITIONS DRAINAGE MAP
11	ONSITE DRAINAGE AREA MAP
12	ONSITE DRAINAGE CALCULATIONS
13	OVERALL GRADING PLAN
14	STORM DRAIN COLLECTION SYSTEM
15	BATCH DETENTION POND PLAN
16	BATCH DETENTION POND SECTIONS (SHEET 1 OF 3)
17	BATCH DETENTION POND SECTIONS (SHEET 2 OF 3)
18	BATCH DETENTION POND SECTIONS (SHEET 3 OF 3)
19	BATCH DETENTION POND DETAILS (SHEET 1 OF 2)
20	BATCH DETENTION POND DETAILS (SHEET 2 OF 2)
21	HOUSTON STREET PLAN AND PROFILE (SHEET 1 OF 2)
22	HOUSTON STREET PLAN AND PROFILE (SHEET 2 OF 2)
23	BAY CITY STREET PLAN AND PROFILE
24	BEAUMONT STREET PLAN AND PROFILE
25	BAYTOWN STREET PLAN AND PROFILE
26	GALVESTON STREET PLAN AND PROFILE
27	CHANNEL A1 PLAN AND PROFILE
28	CHANNEL B PLAN AND PROFILE STA 1+00 TO 7+50
29	CHANNEL B PLAN AND PROFILE STA 7+50 TO END
30	CHANNEL C PLAN AND PROFILE STA 1+00 TO 7+50
31	CHANNEL C PLAN AND PROFILE STA 7+50 TO END
32	CHANNEL D PLAN AND PROFILE STA 0+00 TO END
33	CHANNEL E PLAN AND PROFILE STA 6+50 TO END
34	CHANNEL E PLAN AND PROFILE STA 0+50 TO 6+50
35	CHANNEL F & G PLAN AND PROFILE
36	CHANNEL H PLAN AND PROFILE STA 0+00 TO END
37	CHANNEL I PLAN AND PROFILE STA 0+00 TO END
38	STREET & DRAINAGE DETAILS (SHEET 1)
39	STREET & DRAINAGE DETAILS (SHEET 2)
40	STREET & DRAINAGE DETAILS (SHEET 3)
41	STREET & DRAINAGE DETAILS (SHEET 4)
42	OVERALL UTILITY PLAN
43	WATER DISTRIBUTION PLAN
44	FORCE MAIN SANITARY SEWER PLAN
45	UTILITY DETAILS (SHEET 1)
46	UTILITY DETAILS (SHEET 2)
47	UTILITY DETAILS (SHEET 3)
48	SIGNAGE AND STRIPING PLAN



Know what's below.
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THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



DESIGNED BY: AGS
REVIEWED BY: TR
DRAWN BY: AR

8.04 CONSISTENCY AND QUALITY OF CONCRETE

CONCRETE SHALL BE WORKABLE, COHESIVE, POSSESS SATISFACTORY FINISHING QUALITIES AND OF STEIFEST CONSISTENCY THAT CAN BE PLACED AND VIBRATED INTO A HOMOGENEOUS MASS WITHIN SLUMP REQUIREMENTS SPECIFIED IN TABLE 8-1. NO CONCRETE WILL BE PERMITTED WITH A SLUMP IN EXCESS OF THE MAXIMUMS SHOWN UNLESS WATER-REDUCING ADMIXTURES HAVE BEEN PREVIOUSLY APPROVED. SLUMP VALUES SHALL BE CONDUCTED IN ACCORDANCE WITH TxDOT TEST METHOD TEX-415-A. CONSISTENCY AND QUALITY OF CONCRETE SHOULD ALLOW EFFICIENT PLACEMENT AND COMPLETION OF FINISHING OPERATIONS BEFORE INITIAL SET. TEMPERING (I.E. ADDITION OF WATER AND/OR REWORKING CONCRETE AFTER INITIAL SET) SHALL NOT BE ALLOWED. WHEN FIELD CONDITIONS ARE SUCH THAT ADDITIONAL MOISTURE IS NEEDED FOR FINAL CONCRETE SURFACE FINISHING OPERATION, THE REQUIRED WATER SHALL BE APPLIED TO SURFACE BY FOG SPRAY ONLY AND SHALL BE HELD TO A MINIMUM. EXCESSIVE BLEEDING SHALL BE AVOIDED AND IN NO CASE WILL IT BE PERMISSIBLE TO EXPEDITE FINISHING AND DRYING BY THE APPLICATION OF CEMENT POWDER TO THE SURFACE DURING PROGRESS OF THE WORK. THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE SHALL REQUIRE THE DEVELOPER TO CAST TEST CYLINDERS AND/OR BEAMS AS A CHECK ON COMPRESSIVE AND/OR FLEXURAL STRENGTH OF CONCRETE ACTUALLY PLACED. THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE MAY REQUIRE THE DEVELOPER ALSO TO PERFORM SLUMP TESTS, ENTRAINED AIR TESTS AND TEMPERATURE CHECKS TO ENSURE COMPLIANCE WITH SPECIFICATIONS. THE COST SHALL BE BARED BY THE DEVELOPER OR CONTRACTOR.

UNLESS OTHERWISE SPECIFIED OR INDICATED ON THE DRAWINGS, CONCRETE MIX TEMPERATURE SHALL NOT EXCEED 90°F EXCEPT IN MIXES WITH HIGH RANCE WATER REDUCERS WHERE A MAXIMUM MIX TEMPERATURE OF 100°F WILL BE ALLOWED. COOLING AN OTHERWISE UNACCEPTABLE MIX BY ADDITION OF WATER OR ICE DURING AGITATION WILL NOT BE ALLOWED.

ICE MAY BE USED DURING HOT WEATHER CONCRETE PLACEMENT TO LOWER THE CONCRETE TEMPERATURE. HOWEVER, THE CONTRACTOR SHALL FURNISH A MIX DESIGN ACCEPTABLE TO THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLASS OF CONCRETE SPECIFIED. THE ADDITION OF ICE SHALL NOT EXCEED 50% OF THE TOTAL MIX WATER WEIGHT. TEST CYLINDERS MAY BE REQUIRED FOR SMALL PLACEMENTS SUCH AS WALLS AND HEAD WALLS. THE ENGINEER MAY VARY THE NUMBER OF TESTS TO A MINIMUM OF 1 FOR EACH 25 CUBIC YARDS PLACED OVER A SEVERAL DAY PERIOD. SLUMP TESTS WILL BE PERFORMED IN ACCORDANCE WITH TxDOT TEST METHOD TEX-415-A. ENTRAINED AIR TESTS WILL BE PERFORMED IN ACCORDANCE WITH TxDOT TEST METHOD TEX-416-A. TEST SPECIMENS SHALL BE CURED USING THE SAME METHODS AND UNDER THE SAME CONDITIONS AS THE CONCRETE REPRESENTED. DESIGN STRENGTH BEAMS AND CYLINDERS SHALL BE CURED CONFORMING TO TxDOT BULLETIN C-11 (AND SUPPLEMENTS THERETO). WHEN CONTROL OF CONCRETE QUALITY IS BY 28-DAY COMPRESSIVE TESTS, JOB CONTROL TESTING WILL BE BY 7-DAY COMPRESSIVE STRENGTH TESTS. THE MINIMUM STRENGTH REQUIREMENT FOR SEVEN (7) DAY TEST WILL BE 70 PERCENT OF THE SPECIFIED MINIMUM 28-DAY COMPRESSIVE STRENGTH. IF THE REQUIRED 7-DAY STRENGTH IS NOT SECURED WITH THE QUANTITY OF CEMENT SPECIFIED IN TABLE 8-1, CHANGES IN THE MIX DESIGN SHALL BE MADE AND RESUBMITTED FOR APPROVAL. FOR AN OCCASIONAL FAILURE OF THE SEVEN-DAY COMPRESSIVE TEST, THE CONCRETE MAY BE TESTED AT 28 DAYS FOR FINAL EVALUATION.

Table 8-1: Classes of Concrete

Class	Cement Sacks/CY	Minimum Strength (psi) 7 days	28 days	Maximum W/C Ratio	Course Agg. Grade 2.3,4	Entrained Air
A	5.0	2100	3000	0.6	1,2,3,4,5	Yes
B	4.0	1400	2000	0.6	2,3,4,5,6,7	No
CS	6.0	2520	3600	0.45	1,2,3,4,5,6	Yes
D	4.5	1750	2500	0.6	2,3,4,5,6,7	No
H5	6.0	As Indicated	As Indicated	0.45	3,4,5,6	Yes
I	5.5	2450	3500	0.45	2,3,4,5	Yes
J	2.0	500	800	N/A	2,3,4,5	No
SS	6.0	2800	4000	0.45	2,3,4,5	Yes

NOTES: 1. MAXIMUM WATER-CEMENT OR WATER-CEMENTITIOUS RATIO BY WEIGHT.

2. UNLESS OTHERWISE ALLOWED, GRADE 1 COARSE AGGREGATE SHALL ONLY BE USED IN MASSIVE FOUNDATIONS WITH 4-IN MINIMUM CLEAR SPACING BETWEEN REINFORCING STEEL BARS.

3. GRADE 1 COARSE AGGREGATE GRADING SHALL NOT BE USED IN DRILLED SHAFTS.

4. UNLESS OTHERWISE ALLOWED, GRADE 8 COARSE AGGREGATE SHALL BE USED IN EXTRUDED CURBS.

5. STRUCTURAL CONCRETE CLASSES.

6. WHEN TYPE I CEMENT IS USED IN CLASS C, S OR A CONCRETE, THE 7-DAY COMPRESSIVE STRENGTH REQUIREMENT WILL BE 2310 PSI FOR CLASS C, 2570 PSI FOR CLASS S AND 1925 PSI FOR CLASS A MINIMUM.

Table 8-2: Air Entrainment*

Nominal Maximum Aggregate Size (in)	% Air Entrainment	
	Moderate Exposure	Severe Exposure
3/8 Grade 1 & 8	5.5	7.5
1/2 Grade 9	5.5	7.0
3/4 Grade 5	5.0	6.0
1 Grade 4	4.5	5.0
1-1/2 Grade 3	4.5	5.0
2 Grade 2	4.0	5.0

* For specified concrete strengths above 5,000 psi a reduction of 1 percentage point is allowed.

Table 8-3: Slump Requirements

Type of Construction	Slump in inches	
	Maximum	Minimum
Casest Drilled Shafts	4	3
Reinforced Foundation Caissons and Footings	3	1
Reinforced Footings and Substructure Walls	3	1
Uncasest Drilled Shafts	6	5
Thin-walled Sections; 9 inches (225 mm) or less	5	4
Bridge Decks	4	2
Pavements, Fixed-form	3	1
Pavements, Slip-form	1-1/2	1/2
Sidewalks, Driveways and Slabs on Ground	4	2
Curb & Gutter, Hand-vibrated	3	1
Curb & Gutter, Hand-tamped or spaded	4	2
Curb & Gutter, Slip-form/extrusion machine	2	1/2
Heavy Mass Construction	2	1
High-Strength Concrete	4	3
Riprap and Other Miscellaneous Concrete	6	1

8.05 MIXING AND MIXING EQUIPMENT

- A. **READY-MIXED CONCRETE:** USE OF READY-MIXED CONCRETE WILL BE PERMITTED PROVIDED THE BATCHING PLANT AND MIXER TRUCKS MEET QUALITY REQUIREMENTS SPECIFIED HEREIN. WHEN READY-MIXED CONCRETE IS USED, ADDITIONAL MORTAR (1 SACK CEMENT, 3 PARTS SAND AND SUFFICIENT WATER) SHALL BE ADDED TO EACH BATCH TO COAT THE MIXER DRUM. READY-MIXED CONCRETE, BATCHING PLANT AND MIXER TRUCK OPERATION SHALL INCLUDE THE FOLLOWING:
1. A TICKET SYSTEM WILL BE USED THAT INCLUDES A COPY FOR THE INSPECTOR. TICKET WILL HAVE MACHINE, STAMPED TIME/DATE OF CONCRETE BATCH, A MIX DESIGN DESIGNATION, WEIGHT OF CEMENT, FLY ASH, SAND AND AGGREGATES; EXACT NOMENCLATURE AND WRITTEN QUANTITIES OF ADMIXTURES AND WATER. ANY ITEM MISSING OR INCOMPLETE ON TICKET MAY BE CAUSE FOR REJECTION OF CONCRETE.
 2. SUFFICIENT TRUCKS WILL BE AVAILABLE TO SUPPORT CONTINUOUS PLACEMENTS. THE CONTRACTOR WILL SATISFY THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE THAT ADEQUATE STANDBY TRUCKS ARE AVAILABLE TO SUPPORT CONTINUING CONCRETE PLACEMENT REQUIREMENTS.
 3. A PORTION OF MIXING WATER REQUIRED BY THE MIX DESIGN TO PRODUCE THE SPECIFIED SLUMP MAY BE WITHHELD AND ADDED AT THE JOB SITE, BUT ONLY WITH PERMISSION OF THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE AND UNDER THE INSPECTOR'S OBSERVATION. WHEN WATER IS ADDED UNDER THESE CONDITIONS, THE CONCRETE BATCH WILL BE THOROUGHLY MIXED BEFORE ANY SLUMP OR STRENGTH SAMPLES ARE TAKEN. ADDITIONAL CEMENT SHALL NOT BE ADDED AT THE JOB SITE TO OTHERWISE UNACCEPTABLE MIXES.
 4. A METAL PLATE(S) SHALL BE ATTACHED IN A PROMINENT PLACE ON EACH TRUCK MIXER PLAINLY SHOWING THE VARIOUS USES FOR WHICH IT WAS DESIGNED. THE DATA SHALL INCLUDE THE DRUMS SPEED OF ROTATION FOR MIXING AND FOR AGITATING AND THE CAPACITY FOR COMPLETE MIXING AND/OR AGITATING ONLY. A COPY OF THE MANUFACTURER'S DESIGN, SHOWING DIMENSIONS OF BLADES, SHALL BE AVAILABLE FOR INSPECTION AT THE PLANT AT ALL TIMES. ACCUMULATIONS OF HARDENED CONCRETE SHALL BE REMOVED TO THE SATISFACTION OF THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE.
 5. THE LOADING OF THE TRANSIT MIXERS SHALL NOT EXCEED CAPACITY AS SHOWN ON THE MANUFACTURER'S PLATE ATTACHED TO THE MIXER OR 83 PERCENT OF THE DRUM VOLUME, WHICHEVER IS THE LESSER VOLUME. THE LOADING OF TRANSIT MIXERS TO THE EXTENT OF CAUSING SPILL-OUT EN ROUTE TO DELIVERY WILL NOT BE ACCEPTABLE. CONSISTENT SPILLAGE WILL BE CAUSE FOR DISQUALIFICATION OF A SUPPLIER.
 6. EXCESS CONCRETE REMAINING IN THE DRUM AFTER DELIVERY AND WASH WATER AFTER DELIVERY SHALL NOT BE DUMPED ON THE PROJECT SITE UNLESS APPROVAL OF THE DUMP LOCATION IS FIRST SECURED FROM THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE.
- B. **HAND MIXED CONCRETE:** HAND MIXING OF CONCRETE MAY BE PERMITTED FOR SMALL PLACEMENTS OR IN CASE OF AN EMERGENCY AND THEN ONLY ON AUTHORIZATION OF THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE. HAND-MIXED BATCHES SHALL NOT EXCEED 4 CUBIC FOOT (3 CUBIC METERS) BATCH IN VOLUME. MATERIAL VOLUME RATIOS SHALL NOT BE LEANER THAN 1 PART CEMENT, 2 PARTS LARGE AGGREGATE, 1 PART FINE AGGREGATE AND ENOUGH WATER TO PRODUCE A CONSISTENT MIX WITH A **SLUMP NOT TO EXCEED 4 INCHES**. ADMIXTURES SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE.

ITEM: 9.00 DRAINAGE FACILITIES

9.01 DESCRIPTION

THIS ITEM SHALL GOVERN THE FURNISHING OF ALL DRAINAGE CULVERT PIPE, CONCRETE HEADWALLS, AND REFLECTOR POST AS SHOWN ON THE PLANS AND HEREIN SPECIFIED, AND INSTALLING THE SAME AS DESIGNATED ON THE PLANS OR BY THE DIRECTOR OF TRANSPORTATION OR HIS REPRESENTATIVE IN CONFORMITY WITH THE LINES AND GRADES GIVEN.

9.02 MATERIALS

THE CULVERT PIPE SHALL BE OF SIZE, LENGTH, AND GAUGE AS SHOWN ON THE PLANS. CORRUGATED GALVANIZED METAL PIPE SHALL BE AS SPECIFIED BY ITEM 460 OF THE MOST CURRENT TxDOT STANDARD SPECIFICATIONS. REINFORCED CONCRETE PIPE SHALL BE AS SPECIFIED BY ITEM 464 OF THE SAME. ALL PIPE SHALL BE NEW AND UNUSED AND SHALL HAVE BEEN DAMAGED BY HANDLING OR SHIPPING. THE USE OF HDPE OR POLYPROPYLENE PIPE WITHIN THE ROW IS STRICTLY PROHIBITED. REFLECTOR POSTS SHALL CONFORM TO THE COA DETAIL 824-2 OR AN APPROVED ALTERNATIVE. EQUIPPED WITH 3-INCH AMBER REFLECTORS. THE LENGTH OF THE POST SHALL BE ADEQUATE TO PLACE THE REFLECTOR ASSEMBLY 48 INCHES ABOVE THE CENTERLINE ELEVATION OF THE STREET AND ANCHOR THE POST APPROXIMATELY 48 INCHES INTO THE GROUND. CONCRETE HEADWALLS AND/OR RIP-RAP SHALL BE CONSTRUCTED OF CLASS A CONCRETE CONFORMING WITH COA ITEM 403S REINFORCED WITH DEFORMED BARS OR WIRE MESH CONFORMING WITH ITEM 406S OF SAME. ALL HEADWALLS AND/OR RIP-RAP SHALL BE OF THE DIMENSIONS AND IN THE LOCATIONS SHOWN ON THE PLANS.

9.03 CONSTRUCTION METHODS

CULVERT PIPE SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLAN OR AS SPECIFIED BY THE DIRECTOR OF TRANSPORTATION OR HIS REPRESENTATIVE. THE PIPE SHALL BE BEDDED ALONG ITS COMPLETE LENGTH AND UP TO THE SHOULDERS. THE BACKFILL AROUND THE PIPE SHALL BE COMPACTED. THE INSTALLATION OF ALL CULVERT PIPES SHALL BE IN GENERAL CONFORMANCE WITH THE APPROPRIATE SECTIONS OF THE MOST CURRENT TxDOT STANDARD SPECIFICATIONS. ALL CULVERT PIPES LOCATED AT STREET INTERSECTIONS SHALL BE PROVIDED WITH REFLECTOR POSTS. THE REFLECTOR POST SHALL BE EQUIPPED WITH ONE REFLECTOR FACING IN EACH DIRECTION OF TRAFFIC FLOW. REFLECTOR POSTS SHALL BE PROVIDED ON THE ENDS OF THE CONCRETE HEADWALLS OR RIP-RAP AS SHOWN ON THE PLANS. THE CONCRETE HEADWALLS OR RIP-RAP SHALL BE OF THE DIMENSIONS AND AT THE LOCATIONS SHOWN ON THE PLANS. THE HEADWALLS SHALL BE FORMED ON THEIR EXPOSED SURFACES, WHICH SHALL BE GROUTED AND BROOM FINISHED UPON REMOVAL OF THE FORMS. **GUARDRAIL IS REQUIRED WHERE SLOPES DO NOT MEET REQUIREMENTS OF TABLE 7.2.**

ITEM: 10.00 CHANNEL EXCAVATION

10.01 DESCRIPTION

CHANNEL EXCAVATION SHALL CONSIST OF REQUIRED EXCAVATION FOR ALL CHANNELS. THE REMOVAL AND PROPER UTILIZATION OR DISPOSAL OF ALL EXCAVATED MATERIALS, AND CONSTRUCTING, SHAPING AND FINISHING OF ALL EARTHWORK INVOLVED IN CONFORMITY WITH THE REQUIRED LINES, GRADES AND TYPICAL CROSS SECTIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS HEREIN OUTLINED.

10.02 CLASSIFICATION

ALL CHANNEL EXCAVATION WILL BE UNCLASSIFIED. UNCLASSIFIED CHANNEL EXCAVATION SHALL INCLUDE ALL MATERIALS ENCOUNTERED REGARDLESS OF THEIR NATURE OR THE MANNER IN WHICH THEY ARE REMOVED.

10.03 CONSTRUCTION METHODS

ALL SUITABLE MATERIALS REMOVED FROM THE EXCAVATION SHALL BE USED, INsofar AS PRACTICABLE, IN THE FORMATION OF EMBANKMENTS AS REQUIRED, OR SHALL BE OTHERWISE UTILIZED OR SATISFACTORILY DISPOSED OF AS INDICATED ON PLANS, OR AS DIRECTED, AND COMPLETED WORK SHALL CONFORM TO THE ESTABLISHED ALIGNMENT, GRADES AND CROSS SECTIONS. DURING CONSTRUCTION, THE CHANNEL SHALL BE KEPT DRAINED, INsofar AS PRACTICABLE, AND THE WORK SHALL BE PROSECUTED IN A NEAT AND WORKMANLIKE MANNER. UNSUITABLE CHANNEL EXCAVATION OR EXCAVATION IN EXCESS OF THAT NEEDED FOR CONSTRUCTION, SHALL BE KNOWN AS "WASTE" AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF BY HIM. CHANNEL EXCAVATION SHALL INCLUDE THE REMOVAL AND REPLACEMENT OF ALL FENCE LINES CROSSING THE CHANNELS AND THE INSTALLATION OF GATES AND WATER GAPS AS SHOWN ON THE PLANS. ALL CHANNELS AND THAT AREA ADJACENT TO THEM WHICH HAS BEEN DISTURBED BY CONSTRUCTION EQUIPMENT SHALL BE GRADED SMOOTH AND SEEDED. SEEDING SHALL CONFORM TO ITEM 164 OF THE MOST CURRENT TxDOT STANDARD SPECIFICATIONS OR APPLICABLE STANDARDS FOR THE APPROPRIATE JURISDICTION.

ITEM: 11.00 CLEAR ZONES

11.01 GENERAL

THE PURPOSE OF THIS SECTION IS TO PROVIDE DESIGN CRITERIA FOR ESTABLISHING A ROADWAY CLEAR ZONE. MINIMUM CLEAR ZONE WIDTHS MAY BE FOUND IN TABLE 11-1.

11.02 CLEAR ZONES

THE TERM "CLEAR ZONE" IS USED TO DESCRIBE THE GENERALLY FLAT AND UNOBSTRUCTED AREA THAT IS PROVIDED BEYOND THE TRAVEL LANES. THE CLEAR ZONE MAY INCLUDE SHOULDERS, FOR URBAN STREETS, ARTERIALS, COLLECTORS AND LOCAL STREETS, WHERE CURBS ARE USED, AVAILABLE AREA FOR CLEAR ZONES MAY BE LIMITED. A MINIMUM OFFSET DISTANCE OF 18 INCHES SHOULD BE PROVIDED BETWEEN THE FACE OF CURB AND OBSTRUCTIONS SUCH AS UTILITY POLES, LIGHTING POLES AND FIRE HYDRANTS. LOCAL URBAN STREETS, HORIZONTAL CLEARANCE TO OBSTRUCTIONS, CHAPTER 5 OF ASHTO'S "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 2011", GREATER OFFSETS SHOULD BE PROVIDED WHEN POSSIBLE TO PREVENT CURBSIDE PARKING, BECAUSE MOST CURBS DO NOT HAVE A CAPABILITY TO REDIRECT VEHICLES. THE MINIMUM CLEAR ZONE DISTANCE SHOULD BE INCREASED AS DIRECTED BY THE DIRECTOR OF TRANSPORTATION OR DESIGNATED REPRESENTATIVE COMMENSURATE WITH INCREASES IN TRAFFIC VOLUMES AND VEHICLE SPEEDS.

TABLE 11-1: MINIMUM CLEAR ZONE WIDTH

Classification	Design Speed	ADT	Minimum Width **
Major Arterial	≥55mph	>15000	12ft
Minor Arterial	≤50mph	5001-15000	12ft
Major Collector	≤45mph	2501-5000	12ft
Minor Collector	≤35mph	1001-2500	8ft
Local/Country Lane Uncurbed	All	All	8ft
Local/Country Lane Curbed	All	All	2ft from FOC

* Without barrier or other safety treatment of appurtenances.

**Measured from edge of travel lane for all cut sections and for all fill sections where side slopes are 1V:4H or flatter. Where fill slopes are steeper than 1V:4H it is desirable to provide a 10 ft. area free of obstacles beyond the toe of slope.

11.03 LANDSCAPING IN THE RIGHT OF WAY

- THE FOLLOWING REQUIREMENTS WILL APPLY TO ALL LANDSCAPING WITHIN THE RIGHT-OF-WAY ALONG ROADSIDES, MEDIAN AND INTERSECTION.
- A. INTERSECTIONS: NO LANDSCAPING OF ANY TYPE SHALL OBSTRUCT VISION. THESE REQUIREMENTS WILL APPLY TO ANY MATERIAL FROM A HEIGHT OF TWO (2) FEET TO A CLEARANCE HEIGHT OF EIGHT (8) FEET ABOVE THE TOP OF CURB, INCLUDING, BUT NOT LIMITED TO FULL GROWN TREES, FULL-GROWN SHRUBS, FENCES, STRUCTURES, ANY SIGNS EXCEPT TRAFFIC CONTROL SIGNS, ETC.
 - B. TRAFFIC CONTROL DEVICES: NO LANDSCAPING OF ANY TYPE SHALL OBSTRUCT VISION. THESE REQUIREMENTS WILL APPLY TO ANY MATERIAL FROM A HEIGHT OF SEVEN (7) FEET TO A CLEARANCE HEIGHT OF FOURTEEN (14) FEET ABOVE THE TOP OF CURB, INCLUDING, BUT NOT LIMITED TO FULL GROWN TREES, FULL-GROWN SHRUBS, FENCES, STRUCTURES, ANY SIGNS EXCEPT TRAFFIC CONTROL SIGNS, ETC. WITHIN TWENTY-FIVE (25) FEET OF ANY EXISTING OR PROPOSED TRAFFIC SIGNAL, REGULATORY OR WARNING SIGNS, OR OTHER TRAFFIC CONTROL DEVICES.
 - C. SCHOOL CROSSINGS: NO LANDSCAPING OF ANY TYPE SHALL OBSTRUCT VISION. THESE REQUIREMENTS WILL APPLY TO ANY MATERIAL WITH A HEIGHT OF TWO (2) FEET OR GREATER WITHIN ONE HUNDRED FIFTY (150) FEET OF A SCHOOL CROSSING TO ASSURE PEDESTRIAN SAFETY BY NOT RESTRICTING THE SIGHT VISIBILITY OF MOTORISTS.
 - D. RAILROAD CROSSINGS: NO LANDSCAPING OF ANY TYPE SHALL OBSTRUCT VISION. THESE REQUIREMENTS WILL APPLY TO ANY MATERIAL WITH A HEIGHT OF TWO (2) FEET OR GREATER WITHIN TWO HUNDRED FIFTY (250) FEET OF A RAILROAD CROSSING TO ASSURE ADEQUATE SIGHT VISIBILITY.
 - E. GENERAL NOTE: ANY LANDSCAPING THAT IS NOT IN COMPLIANCE WITH THE REQUIREMENTS STATED IN THESE CRITERIA OR HAS BEEN PLANTED WITHOUT AN APPROVED LICENSE AGREEMENT FROM THE COUNTY SHALL BE REMOVED BY THE SPONSORING ORGANIZATION OR INDIVIDUAL AT THEIR COST. THE REQUIRED LICENSE AGREEMENT MAY BE OBTAINED FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT.

ITEM: 12.00 MISCELLANEOUS

12.01 SIGNAGE

STREET NAME SIGNS, TRAFFIC CONTROL SIGNS, SPEED LIMIT SIGNS, CROSSWALKS ETC. SHALL ALL CONFORM TO THE REQUIREMENTS OF THE MOST CURRENT TxDOT STANDARD SPECIFICATIONS AND THE "UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES". SIGNAGE AND POSTS SHALL CONFORM TO THE COA DETAIL 824-2 OR AN APPROVED ALTERNATIVE. STOP BARS SHALL BE INSTALLED AT ALL STOP SIGN LOCATION. THEY SHALL BE RETRO-REFLECTIVE WHITE THERMOPLASTIC MATERIAL. A MINIMUM OF 24" WIDE. THEY SHALL BE PLACED ADJACENT TO THE STOP SIGN AND SHALL EXTEND FROM THE EDGE OF PAVEMENT TO THE MIDPOINT OF THE ROADWAY. FOR ALL DEVELOPMENTS PROPOSING NEW STREET CONSTRUCTION, THE DEVELOPER'S ENGINEER SHALL PROVIDE - AS PART OF THE CONSTRUCTION PLANS - A NARRATIVE STATEMENT IN RECORDEABLE FORMAT, TO BE RECORDED WITH THE FINAL PLAT, LISTING THE TYPE AND LOCATION OF ALL PROPOSED SIGNS FOR DIRECTING AND CONTROLLING TRAFFIC.

12.02 COMPLETION CERTIFICATE

UPON COMPLETION, BUT PRIOR TO ACCEPTANCE OF THE WORK BY HAYS COUNTY TRANSPORTATION DEPARTMENT, THE ACCREDITED MATERIALS ENGINEERING LABORATORY SHALL SUBMIT TO HAYS COUNTY TRANSPORTATION DEPARTMENT A WRITTEN STATEMENT OF SUBSTANTIAL COMPLIANCE WHICH HAS BEEN SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. THE WRITTEN STATEMENT OF SUBSTANTIAL COMPLIANCE MUST ACKNOWLEDGE THAT ALL CONSTRUCTION MATERIALS AND OPERATIONS USED IN THE PROJECT WERE TESTED AND INSPECTED BY ACCREDITED LABORATORY AND THAT THEY COMPLY WITH ALL THE SPECIFICATIONS APPLICABLE TO THE PROJECT AT THE TIME A FINAL INSPECTION AND RELEASE OF PERFORMANCE SECURITY IS REQUESTED. THE DESIGN ENGINEER SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS IN PDF FORMAT (300 DPI) ON A VIRUS FREE DISK AND SHALL CERTIFY THAT ALL ROAD AND DRAINAGE CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL ACCORDANCE WITH PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS, EXCEPT AS NOTED. **NO PERFORMANCE SECURITY WILL BE RELEASED WITHOUT THESE EXHIBITS.**

12.03 ACCEPTANCE OF MAINTENANCE

PRIOR TO THE ACCEPTANCE OF MAINTENANCE BY HAYS COUNTY TRANSPORTATION DEPARTMENT, ALL ROADWAYS TO BE ACCEPTED, WILL HAVE MEET OR BE BROUGHT UP TO HAYS COUNTY STANDARDS. A FULL DEPTH REPAIR, CONSISTING OF NO LESS THAN 6" OF TYPE B OR C AND 2" OF TYPE D MIX, WILL BE REQUIRED ON BASE AND SUBGRADE FAILURES AS DETERMINED BY THE DIRECTOR OF TRANSPORTATION.

HAYS COUNTY GENERAL CONSTRUCTION NOTES

THESE PLANS ARE NOT TO BE CONSIDERED FINAL FOR CONSTRUCTION UNTIL APPROVED BY HAYS COUNTY. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.

1. SEVENTY-TWO (72) HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH ALL PERTINENT PARTIES.
2. ALL ROADWAY AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FROM HAYS COUNTY ROAD AND BRIDGE DEPARTMENT PRIOR TO BEGINNING ANY ON-SITE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE NECESSARY INSPECTIONS FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT. ALL REPAIRS TO IMPROVEMENTS CAUSED BY CONTRACTOR'S FAILURE TO INSTALL IMPROVEMENTS IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS AND THESE CONSTRUCTION PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HAYS COUNTY TRANSPORTATION DEPARTMENT'S ACCEPTANCE OF THE IMPROVEMENTS ARE CONTINGENT ON REPAIRS BEING MADE TO HAYS COUNTY'S SATISFACTION. DELAYS CAUSED BY REPAIRS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. A MINIMUM OF TWO (2) BENCHMARKS SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
4. ALL BEDDING MATERIALS USED WITHIN THE ROW SHALL COMPLY WITH COA ITEM 510.
5. ALL CURBS PLACED WITHIN THE ROW SHALL BE A MINIMUM OF CLASS A. THE USE OF REBAR CHAIRS AND TESTS CYLINDERS WILL BE REQUIRED ON PCC VALLEY GUTTER PLACEMENTS.
6. THE PROPOSED FULLY DEVELOPED STORMWATER RUNOFF RATE CANNOT EXCEED EXISTING CONDITIONS RUNOFF RATE.
7. THE TCEI PERMIT AND SWPPP BOOK MUST BE ON SITE AND AVAILABLE UPON REQUEST AT ALL TIMES AT ALL TIMES.
8. THE CONTRACTOR SHALL MAINTAIN EAS CONTROLS THAT FAILED INSPECTION PRIOR TO THE NEXT INSPECTION OR RAIN EVENT.
9. A HARD COPY OF THE APPROVED/STAMPED PLANS MUST BE ON SITE AND AVAILABLE UPON REQUEST AT ALL TIMES.
10. DEWATERING OPERATIONS MUST USE SWPPP-SPECIFIED METHODS ONLY. IF SUCH METHODS ARE ONLY GENERAL OR NOT APPLICABLE, PUMP FROM THE TOP OF THE POOL, (RATHER THAN THE BOTTOM) AND DISCHARGE TO A VEGETATED UPLAND AREA (AWAY FROM WATERBODIES OR DRAINAGES) OR USE ANOTHER TYPE OF FILTRATION PRIOR TO DISCHARGE. REFER TO THE EPA 2017 GENERAL CONSTRUCTION PERMIT, SECTION 2.4. AS APPLICABLE.
11. THE CONTRACTOR SHALL SUPPLY QUALIFIED PERSONNEL TO PERFORM SWPPP INSPECTIONS ON PROJECT ≥ 1 ACRE. QUALIFIED PERSONNEL SHALL HAVE CISEC, CESSWI, OR EQUIVALENT CERTIFICATION APPROVED BY THE MSA.
12. CONTRACTOR SHALL PLACE GEO FABRIC UNDER SOE'S AND CLEAN UP ANY MUD AND DEBRIS TRACKED ONTO PUBLICLY MAINTAINED ROADWAYS FROM VEHICLES LEAVING THE CONSTRUCTION SITE DAILY.
13. NO EXPLOSIVES SHALL BE USED FOR THIS PROJECT WITHOUT TCEQ APPROVAL.
14. ALL HOLES, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES IN COMPLIANCE WITH COA 595S AND OSHA REGULATIONS AT ALL TIMES.
15. HE CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PREPARED AND SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL ASSIGN A COMPETENT PERSON THAT HAS BEEN PROPERLY TRAINED AND IS QUALIFIED TO MAKE INSPECTIONS AND SUPERVISE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRENCH SAFETY OR EXCAVATION SAFETY SYSTEM.
16. HAYS COUNTY IS NOT RESPONSIBLE FOR SIDEWALK MAINTENANCE. A FULLY EXECUTED LICENSE AGREEMENT MUST BE IN PLACE PRIOR TO CONSTRUCTION OF SIDEWALKS WITHIN HAYS COUNTY ROW.
17. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH MAY BE SPECIFIED SOMEWHERE IN THE CONSTRUCTION PLANS.
18. PERMIT IS REQUIRED FOR CONSTRUCTION IN RIGHT OF WAY - ORDINANCE 7.10. NO DRIVEWAY, UTILITY CONSTRUCTION, MAILBOXES, LANDSCAPING OR ANY OTHER ENCRoACHMENT INTO RIGHT-OF-WAY OR EASEMENT SHALL BE ALLOWED WITHOUT FIRST OBTAINING A PERMIT FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT.
19. PRIOR TO THE INSTALLATION OF ANY ROAD BUILDING MATERIAL THE SUBGRADE SHALL BE INSPECTED BY HAYS COUNTY. PRIOR TO PAVING, BASE MATERIAL SHALL BE INSPECTED BY HAYS COUNTY. THE OWNER OR HIS AGENT SHALL NOTIFY HAYS COUNTY FORTY-EIGHT (48) HOURS PRIOR TO THE TIME WHEN THE INSPECTION IS NEEDED. ORDINANCE 1.26, 2.06.
20. ALL OUTFALLS CONSTRUCTED WITHIN HAYS COUNTY MUST BE SUBMITTED TO HAYS COUNTY WITH GPS COORDINATES AT THE END OF EACH PROJECT. COORDINATES WILL BE SUBMITTED ON THE NAD 1983 STATE PLANE SOUTH CENTRAL FIPS 4204 FEET COORDINATE SYSTEM. ALL COORDINATES WILL BE SUBMITTED IN GRID UNITS. THE REQUIRED FILE TYPE FOR COORDINATE DATA SUBMISSIONS IS ".TXT" FORMAT.
21. AT THE TIME A FINAL INSPECTION AND RELEASE OF PERFORMANCE SECURITY IS REQUESTED, THE DESIGN ENGINEER SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS IN PDF FORMAT (300DPI) ON A VIRUS FREE DISK AND SHALL CERTIFY THAT ALL ROAD AND DRAINAGE CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL ACCORDANCE WITH PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS, EXCEPT AS NOTED. NO PERFORMANCE SECURITY WILL BE RELEASED WITHOUT THESE EXHIBITS.

TYPICAL SEQUENCE OF CONSTRUCTION

1. HOLD PRE-CONSTRUCTION MEETING.
2. NO CLEARING OR ROUGH CUTTING MAY BE DONE UNTIL THE APPROVED EROSION AND
3. SEDIMENT CONTROLS ARE IN PLACE AND APPROVED BY HAYS COUNTY.
4. ROUGH-CUT DETENTION/WATER QUALITY POND/SBASINS AND DIRECT RUNOFF TO PONDS
5. TO ACT AS A SEDIMENT TRAP.
6. ROUGH GRADE STREETS
7. INSTALL ALL UTILITIES IN THE RIGHTS-OF-WAY.
8. REGRADE AND COMPACT SUBGRADE. MEET WITH INSPECTOR AND DESIGN ENGINEER TO
9. DETERMINE AREAS OF DIFFERING STREET SECTIONS OR SUBGRADE PREPARATION, IF CALLED FOR IN THE GEOTECHNICAL REPORT.
10. INSURE ALL UNDERGROUND UTILITY CROSSINGS ARE IN PLACE INCLUDING SLEEVES
11. FOR DRY UTILITIES AND INSTALL FIRST COURSE OF BASE.
12. INSTALL CURBS, RIP-RAP AND MISCELLANEOUS CONCRETE.
13. INSTALL SECOND COURSE OF BASE.
14. PRIOR TO PAVING, ALL UTILITY TESTING MUST BE COMPLETE AND APPROVED BY THE UTILITY OWNER.
15. LAY ASPHALT.
16. FINAL GRADE ANY DITCHES AND PARKWAYS.
17. REVEGETATE ALL DISTURBED AREAS. DISPOSE OF SPOIL IN AN APPROVED MANNER.
18. SCHEDULE A FINAL INSPECTION.
20. AFTER ACCEPTANCE OF CONSTRUCTION, TEMPORARY EROSION CONTROLS MAY BE REMOVED.

NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

GENERAL NOTES SHEET (SHEET 2 OF 2)

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SAN ANTONIO, TX 78216
TEL: 281-581-3600 • www.bgeinc.com
TXBPE Registration No. F-1146

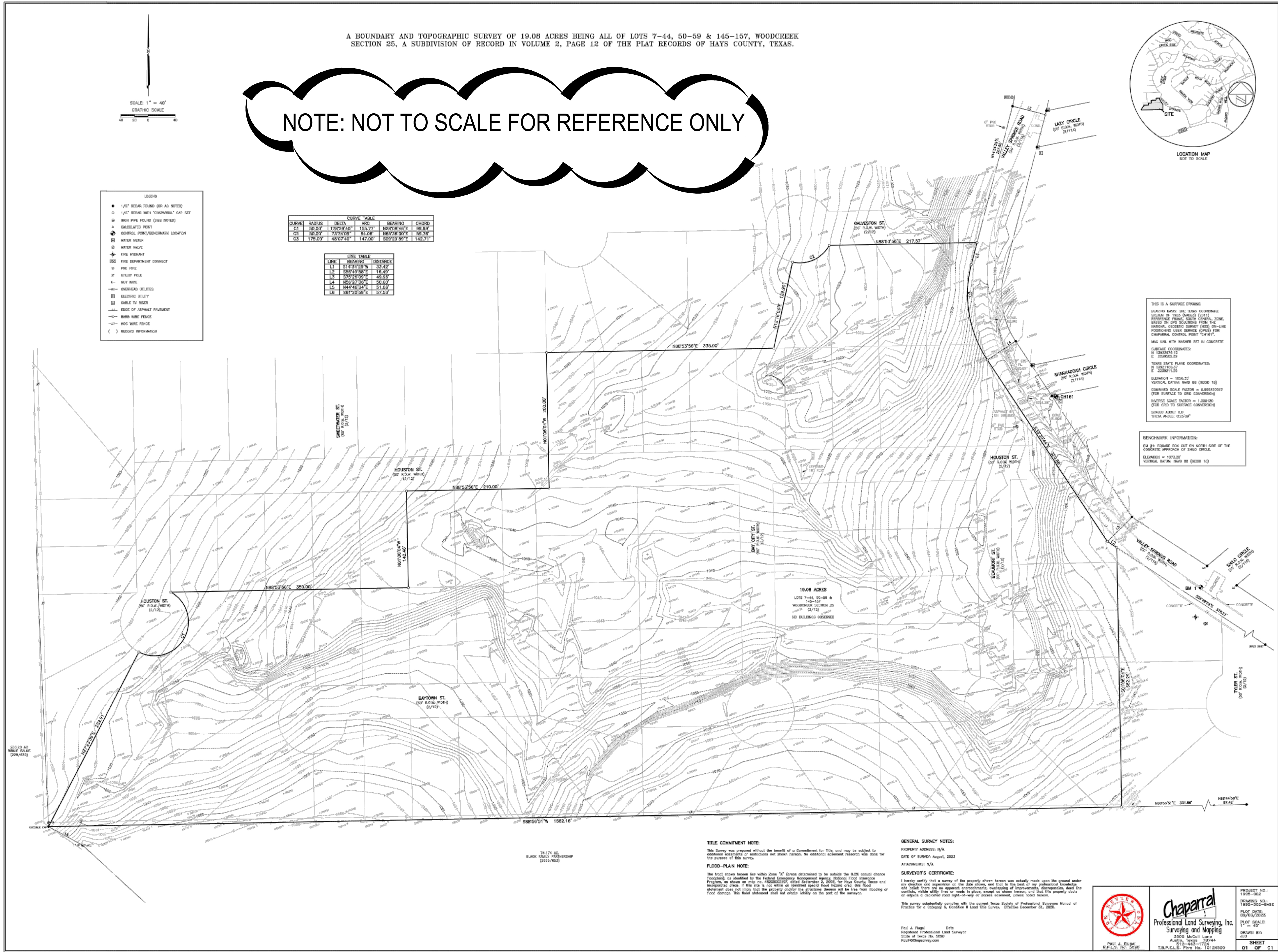


05/02/2024

SHEET

3

G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Site\04_EXISTING CONDITIONS SURVEY.dwg Plotted: 5/2/2024 11:23:04 AM By: T Rodriguez



NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

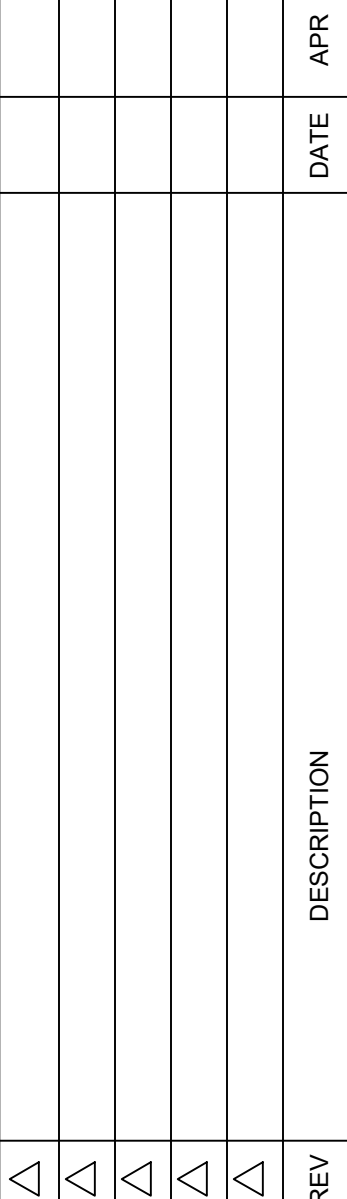
EXISTING CONDITIONS SURVEY

DESIGNED BY:	TR
REVIEWED BY:	TR
DRAWN BY:	TR
DATE	APR
DESCRIPTION	
REV	



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Vol. 2 pg 12



WIMBERLEY RIDGE
FINAL PLAT

STATE OF TEXAS
AARON J. NEUMANN
114451
ENGINEER
05/02/2024

SHEET
5

UTILITY PROVIDERS:

WATER: AQUA TEXAS
SEWER: AQUA TEXAS
ELECTRIC: PEDERNALES ELECTRIC COOPERATIVE

FEMA FIRM PANELS:

NO PORTION OF THE LOT IN THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL 48209C0219F, EFFECTIVE 9/02/2005.

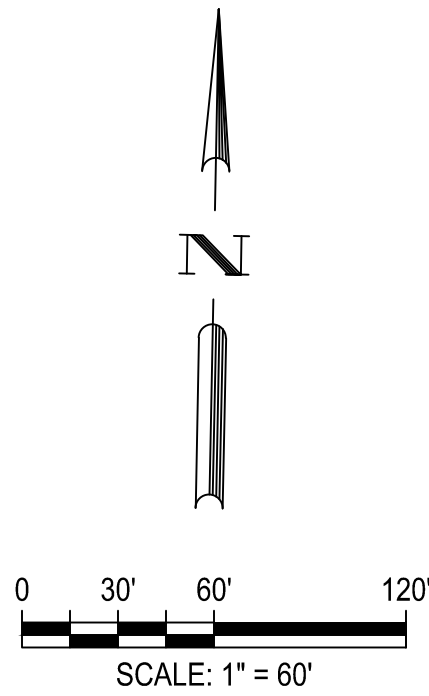
SCHOOL DISTRICT:

WIMBERLEY ISD

GENERAL SITE PLAN NOTES

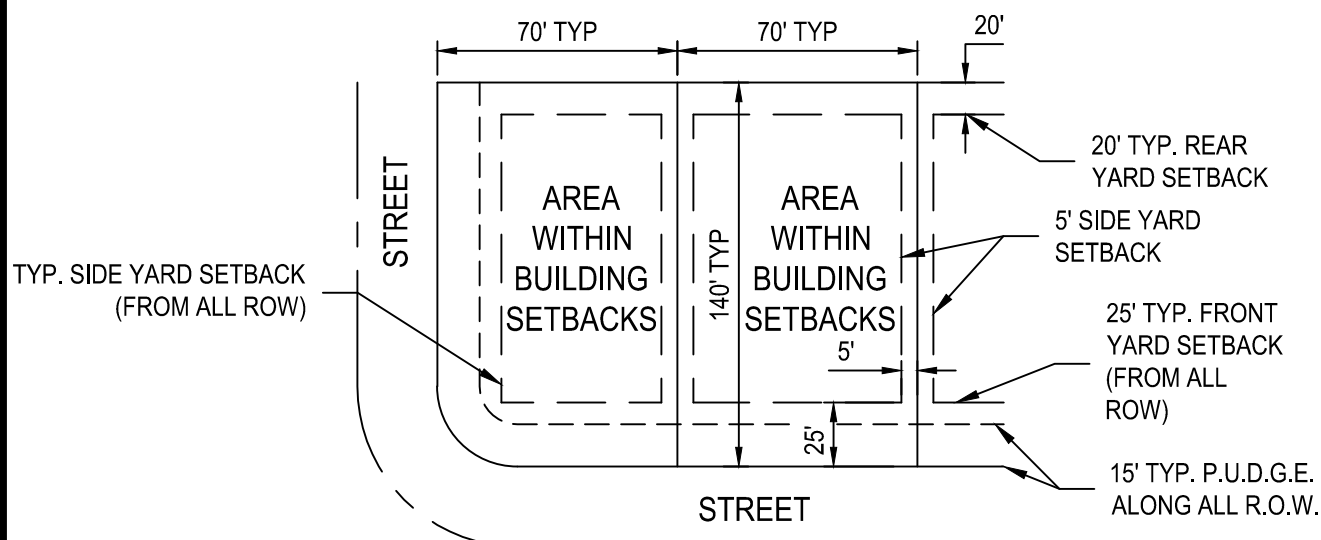
1. THIS DEVELOPMENT SHALL COMPLY WITH THE HAYS COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS MANUAL AND THE DEVELOPMENT MANUAL.
2. THIS SITE PLAN SHALL MEET THE HAYS COUNTY STORM WATER REQUIREMENTS.
3. ALL ROADS WILL BE PUBLICLY OWNED.
4. ELECTRIC SERVICE TO BE PROVIDED BY PEDERNALES ELECTRIC COOPERATIVE.
5. SANITARY SEWER SERVICE IS TO BE PROVIDED BY AQUA TEXAS.
6. MAINTENANCE OF DRAINAGE EASEMENTS DESIGNATED WITHIN A LOT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, ANY USE, OF ANY EASEMENT, OR ANY PORTION OF IT, INCLUDING LANDSCAPING OR DRAINAGE FEATURES IS SUBJECT TO AND SHALL NOT CONFLICT WITH THE TERMS AND CONDITIONS OF IN THE EASEMENT, MUST NOT ENDANGER OR INTERFERE WITH THE RIGHTS GRANTED BY THE EASEMENT TO THE UTILITIES, IT'S SUCCESSORS AND ASSIGNS, AND SHALL BE SUBJECT TO APPLICABLE PERMIT REQUIREMENTS OF HAYS COUNTY OR ANY OTHER GOVERNING BODY. THE PROPERTY OWNER MUST OBTAIN, IN ADVANCE, WRITTEN AGREEMENT WITH THE UTILITIES TO UTILIZE THE EASEMENT, OR ANY PART OF IT.
7. ALL STREETS WITHIN THE WIMBERLEY RIDGE SUBDIVISION WILL BE BUILT TO THE HAYS COUNTY SPECIFICATIONS AND WILL BE DEDICATED TO THE COUNTY UPON COMPLETION AND ACCEPTANCE.
8. TYPICAL SETBACKS & EASEMENTS APPLY TO ALL LOTS EXCEPT WHERE NOTED OTHERWISE.
9. CORNER LOTS WITH THE REAR YARD ADJACENT TO A FRONT YARD ARE SUBJECT TO A 20-FOOT SIDE BUILDING SETBACK.
10. A 15' P.U.D.G.E WILL BE DEDICATED ADJACENT TO ALL STREET RIGHT-OF-WAY, UNLESS OTHERWISE NOTED ON PLANS.
11. THE FRONT BUILDING SETBACK LINE ON ALL PUBLIC ROADS SHALL BE 25 FEET FROM THE EDGE OF THE RIGHT-OF-WAY.
12. CONTRACTOR SHALL REFER TO THE RECOMMENDATIONS CONTAINED WITHIN THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY ALPHA TESTING.

PROJECT SUMMARY	
SINGE-FAMILY RESIDENTIAL LOTS	53
ROADS (LF)	2,900 LF
ROADS (AC.)	2.63 AC.
OPEN SPACE/DETENTION LOTS	1.16 AC.
DENSITY (LOTS/ACRE)	2.94
TOTAL ACREAGE	19.08

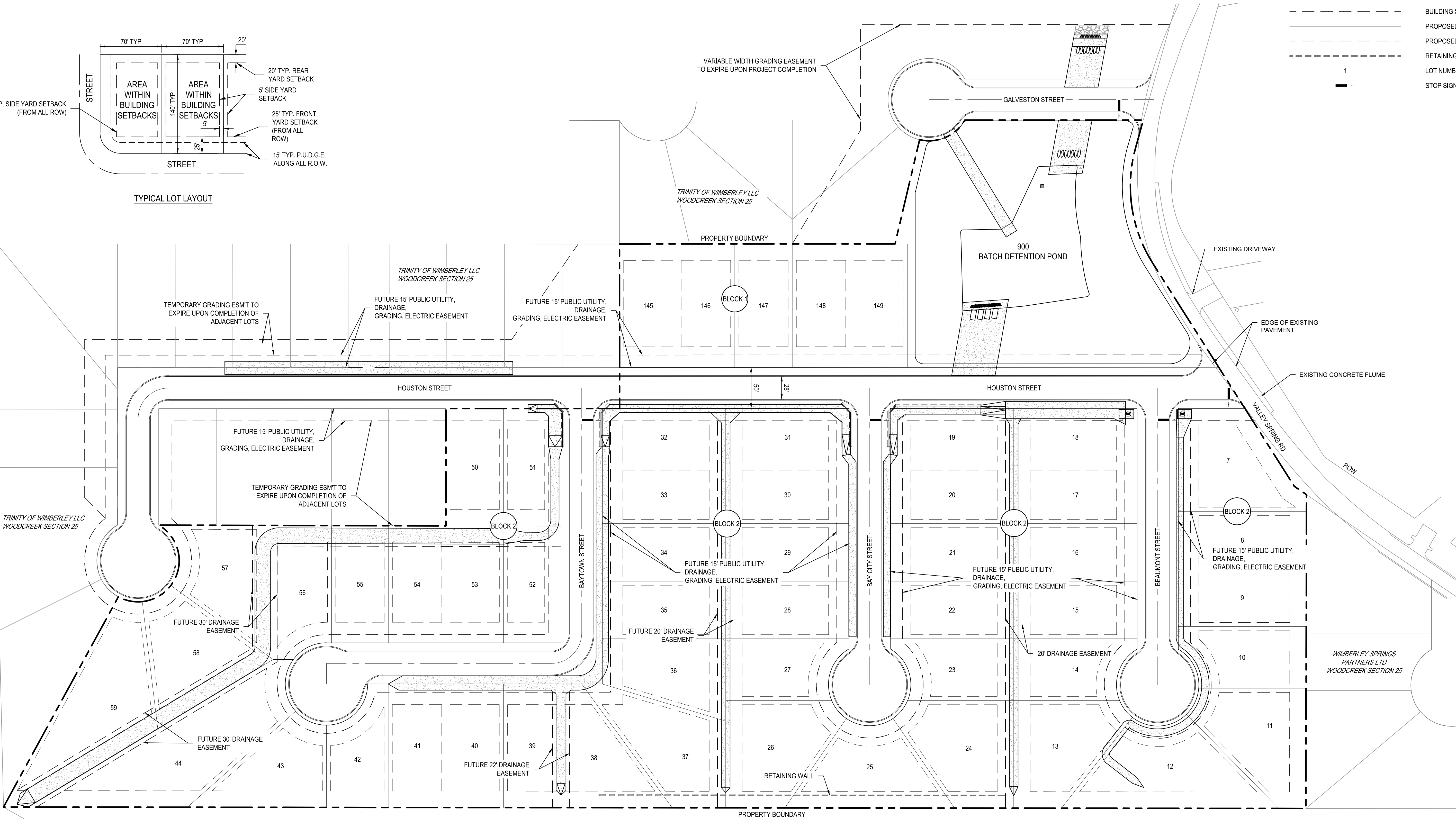


LEGEND

- PROPERTY BOUNDARY
- BUILDING SETBACK
- PROPOSED LOT LINES
- PROPOSED EASEMENT
- RETAINING WALL
- LOT NUMBER
- STOP SIGN w/STOP BAR



TYPICAL LOT LAYOUT



BLACK FAMILY PARTNERSHIP LTD
A0589 S N ENGLISH SURVEY

NOT FOR CONSTRUCTION

WIMBERLEY RIDGE
OVERALL LAND PLAN



05/02/2024

SHEET

6

DESIGNED BY: AG
REVIEWED BY: TR
DRAWN BY: RA



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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES – LEGAL DISCLAIMER

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS WELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING 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 IMPLEMENTATION. FAILURE TO COMPLY WITH ANY CONDITION OF THE ED'S APPROVAL, WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES", IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
 - THE NAME OF THE APPROVED PROJECT;
 - THE ACTIVITY START DATE; AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON-SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL TCEQ-05824 (REV. JULY 15, 2015) PAGE 2 OF 2 STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
 - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
 - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
 - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED CZP MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
 - A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPs) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY PERMANENT PONDS, DAMS, BERMS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
 - B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
 - C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
 - D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

AUSTIN REGIONAL OFFICE
12100 PARK 35 CIRCLE, BUILDING A
AUSTIN, TEXAS 78753-1808
PHONE (512) 339-2929
FAX (512) 339-3795

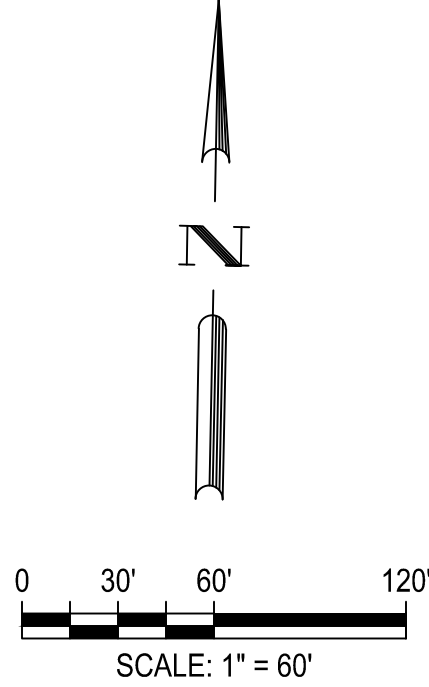
SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233-4480
PHONE (210) 490-3096
FAX (210) 545-4329

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS

TEMPORARY OR PERMANENT
VEGETATIVE SOIL STABILIZATION

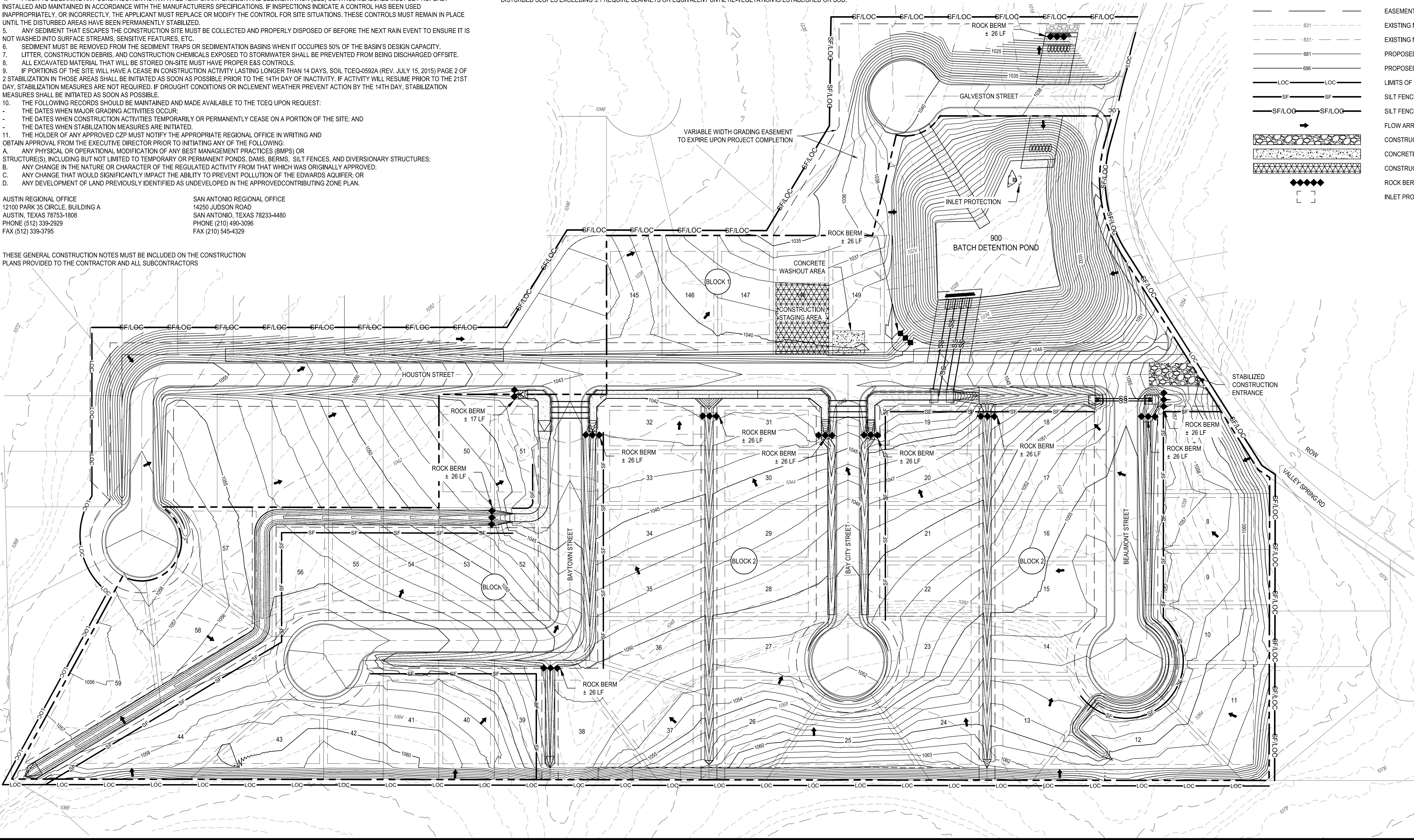
1. INTERIM OR FINAL GRADING MUST BE COMPLETED PRIOR TO SEEDING. MINIMIZING ALL STEEP SLOPES.
2. FERTILIZER SHOULD BE APPLIED AT THE RATE OF 40 POUNDS OF NITROGEN AND 40 POUNDS OF PHOSPHORUS PER ACRE. COMPOST CAN BE USED INSTEAD OF FERTILIZER AND APPLIED AT THE SAME TIME AS THE SEED.
3. ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE TEMPORARY CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 21 DAYS.
4. ADD J HOOKS PER CITY OF AUSTIN DETAIL ALONG THE SILT FENCE.
5. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE PREPARED/AMENDED BY A TX PE, CPESC, OR QPSWPPP [CITY CODE SECTION 86.529(B)(2) OR 86.529(C)(3)], IMPLEMENTED, AND UPDATED TO MATCH SITE CONDITIONS DURING THE PROJECT. THE ASSOCIATED TPDES CONSTRUCTION SITE NOTICE MUST BE POSTED IN PUBLIC VIEW. TXR150000 PART III.D.2.
6. HAVE A CISEC, GESSWI, OR QCIS CONDUCT WEEKLY SWPPP INSPECTIONS AND DOCUMENT PER CITY CODE SECTIONS 86.523 AND 86.529(B)(9) OR 86.529(C)(11). MAINTAIN ALL ESC MEASURES AND ADDRESS ALL IDENTIFIED CORRECTIVE ACTIONS PER CITY CODE SECTION 86.529(C)(11).
7. THE LIMITS OF CONSTRUCTION (LOC) SHALL BE ADJUSTED AS NEEDED DURING THE PROJECT TO COVER ALL AREAS DISTURBED DURING DEMOLITION, GRADING, CONSTRUCTION, STORAGE, STOCKPILING, PARKING, ETC., PER TXR150000 PARTS I AND III.G.4.(C) AND (D). ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED.
8. PER TXR150000 PART III.F.1.(M), LOCATIONS OF THE FOLLOWING, AS APPLICABLE, MUST BE MARKED ON THIS ESCP IN THE FIELD: THE TPDES CONSTRUCTION SITE NOTICE POSTING IN PUBLIC VIEW, STAGING, SPOILS STORAGE, CONCRETE WASHOUT, DUMPSTERS, PORTABLE TOILET(S), FUELING POINT(S), AND/OR OTHER POTENTIAL CONTAMINANT SOURCES. THIS ESCP MUST ALSO BE UPDATED AS THESE POTENTIAL CONTAMINANT SOURCES MOVE OR OTHER CHANGES OCCUR ONSITE. PEN AND INK CHANGES ARE EXPECTED AND DON'T REQUIRE RESUBMITTAL; JUST DATE AND INITIAL.
9. IF THERE IS A BREAK OF MORE THAN 14 DAYS DURING THE PROJECT WHERE NO DIRT WORK IS DONE ON A SITE PORTION(S) WITHIN THE LIMITS OF CONSTRUCTION, TEMPORARY (OR PERMANENT) STABILIZATION IS REQUIRED PER TXR150000 PART III.F.2.(B). III(CITY CODE SECTION 86.529(A)(1)(G), SUCH DIRT WORK STOPPAGE INCURS TIME PERIODS BEFORE GRADING COMPLETION AND CONSTRUCTION START. DURING CONSTRUCTION, BETWEEN CONSTRUCTION AND FINAL STABILIZATION, ETC. USE TEMPORARY (OR PERMANENT) SEEDING, ROCK, GRAVEL (1" MINIMUM), CONCRETE RIP-RAP, DEGRADABLE STRAW MATTING, SHREDDED HARDWOOD MULCH, DEGRADABLE SOIL RETENTION BLANKETS, OR SIMILAR. NOTE THAT MATTING, MULCH, OR BLANKETS REQUIRE ONGOING MAINTENANCE.
10. ANY EXISTING STORM WATER INLETS WITHIN 200' OF THE LOC MUST HAVE INLET PROTECTION. STORM WATER INLET PROTECTION IS ALSO REQUIRED AS NEW STORM WATER INLETS ARE ADDED TO THE SITE, IF APPLICABLE.
11. POND OR OTHER DISTURBED SLOPES 3:1 OR FLATTER MUST BE STABILIZED WITH BIODEGRADABLE SOIL RETENTION BLANKETS WITH NO PLASTIC NETTING. DISTURBED SLOPES EXCEEDING 3:1 REQUIRE BLANKETS OR EQUIVALENT UNTIL RE-VEGETATION IS ESTABLISHED OR SOD.

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE TEMPORARY CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 21 DAYS



LEGEND

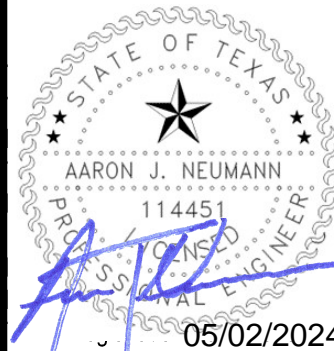
- PROPERTY BOUNDARY
- EASEMENT
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- LIMITS OF CONSTRUCTION
- SILT FENCE
- SILT FENCE/LIMITS OF CONSTRUCTION
- FLOW ARROW
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT AREA
- CONSTRUCTION STAGING AREA
- ROCK BERM
- INLET PROTECTION



NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

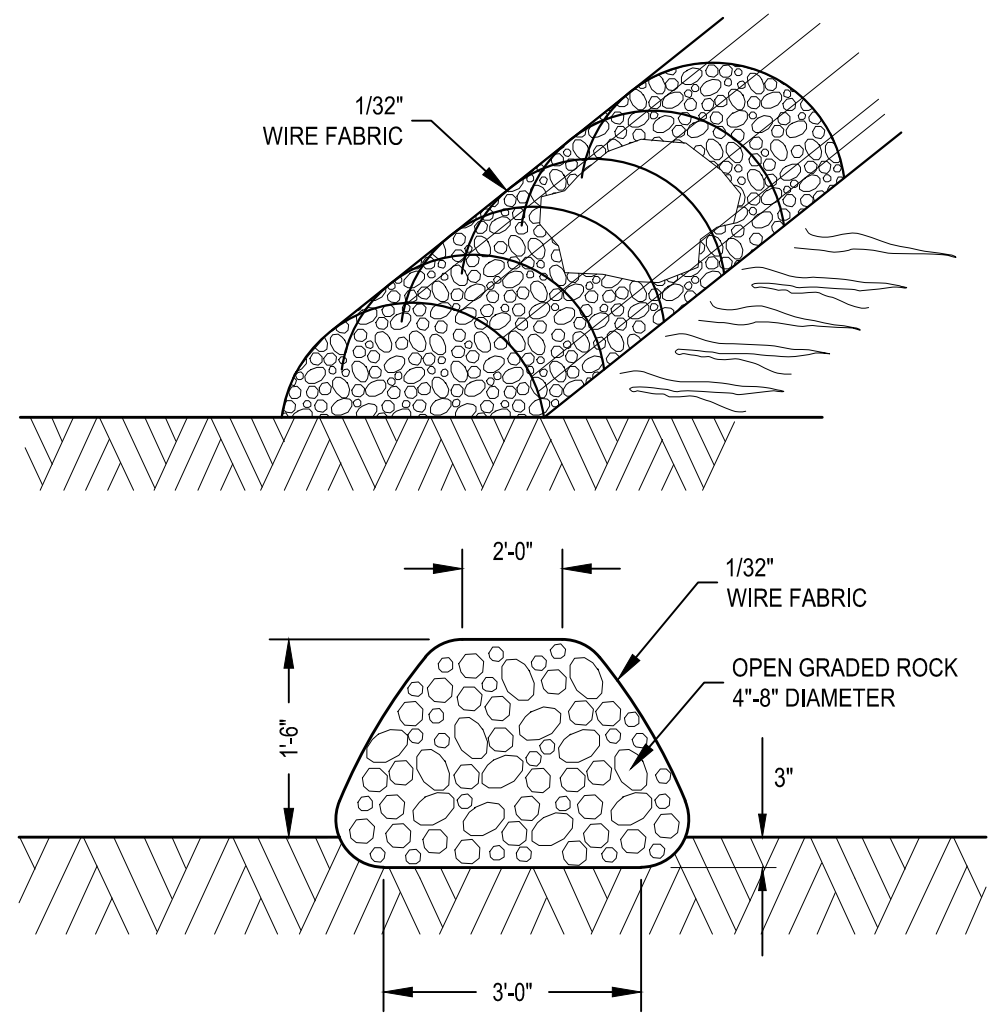
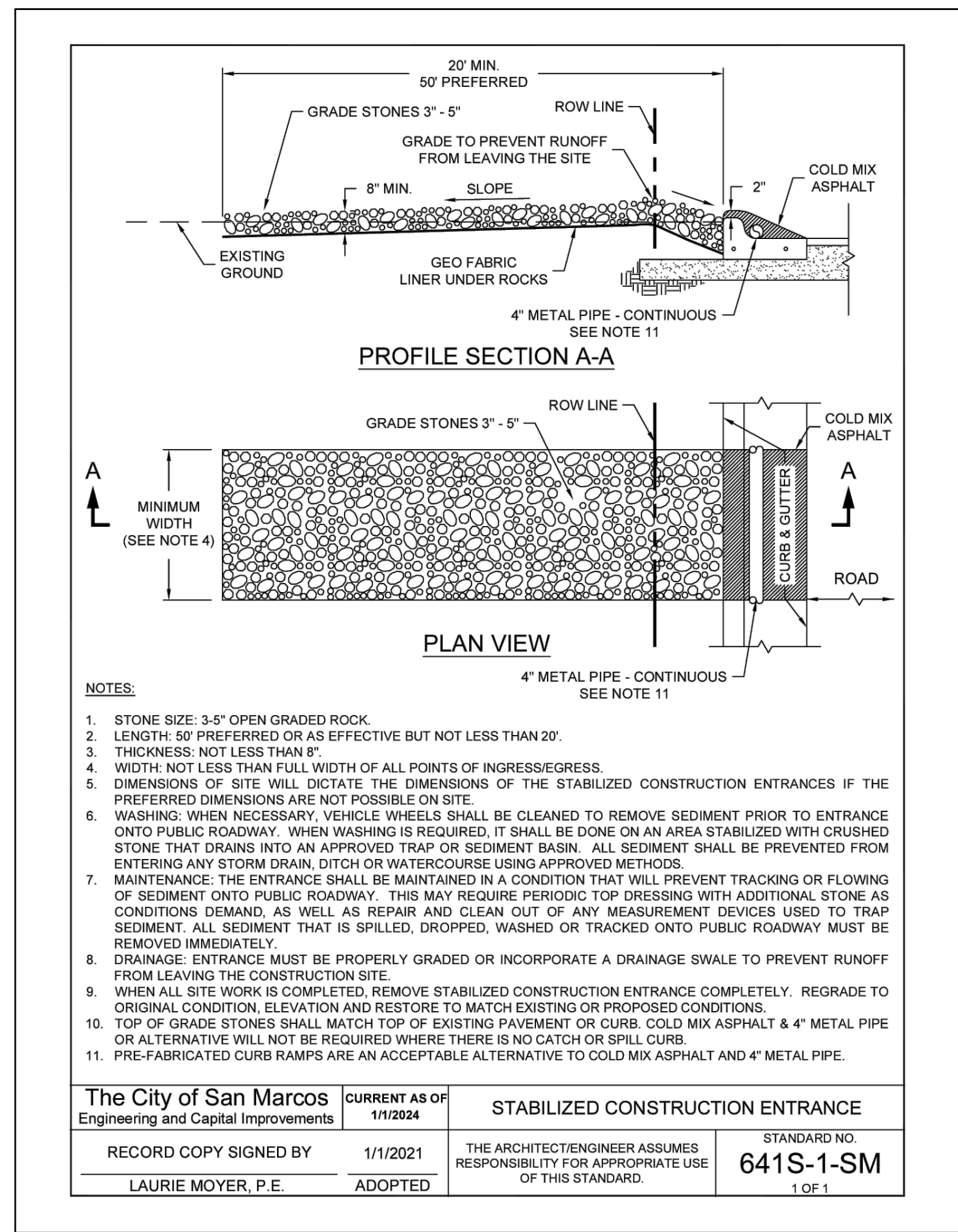
EROSION CONTROL PLAN



05/02/2024

SHEET

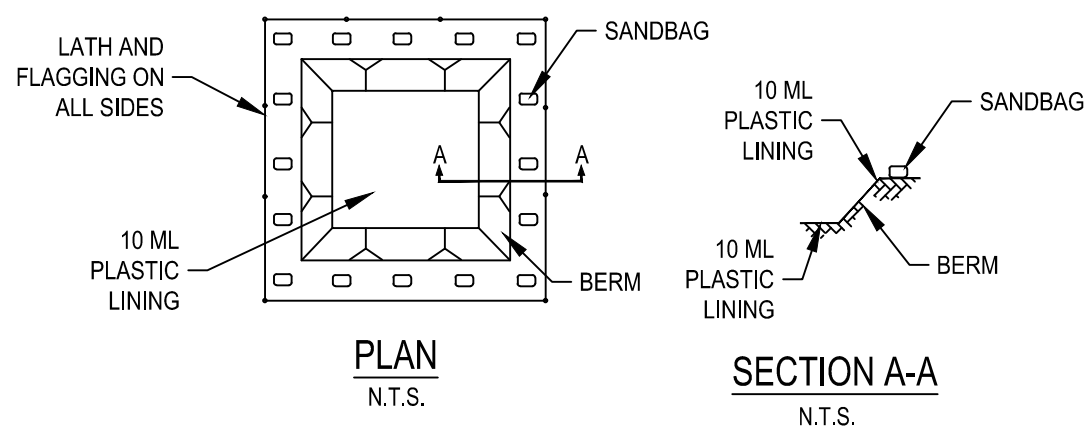
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GENERAL NOTES:

1. USE ONLY OPEN GRADED ROCK 4-8 INCHES DIAMETER FOR STREAM FLOW CONDITION; USE OPEN GRADED ROCK 3-5 INCHES DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 1/32 INCH.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE-WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED, DUE TO SILT ACCUMULATION AMONG THE ROCKS, WITHOUT CONSTRUCTIVE TREATMENT OF THE ROCKS, ETC.
4. WHEN IT REACHES A DEPTH EQUAL TO ONE THIRD THE HEIGHT OF THE BERM OR 12 INCHES, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 6 INCHES.
6. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

ROCK BERM DETAIL
N.T.S.



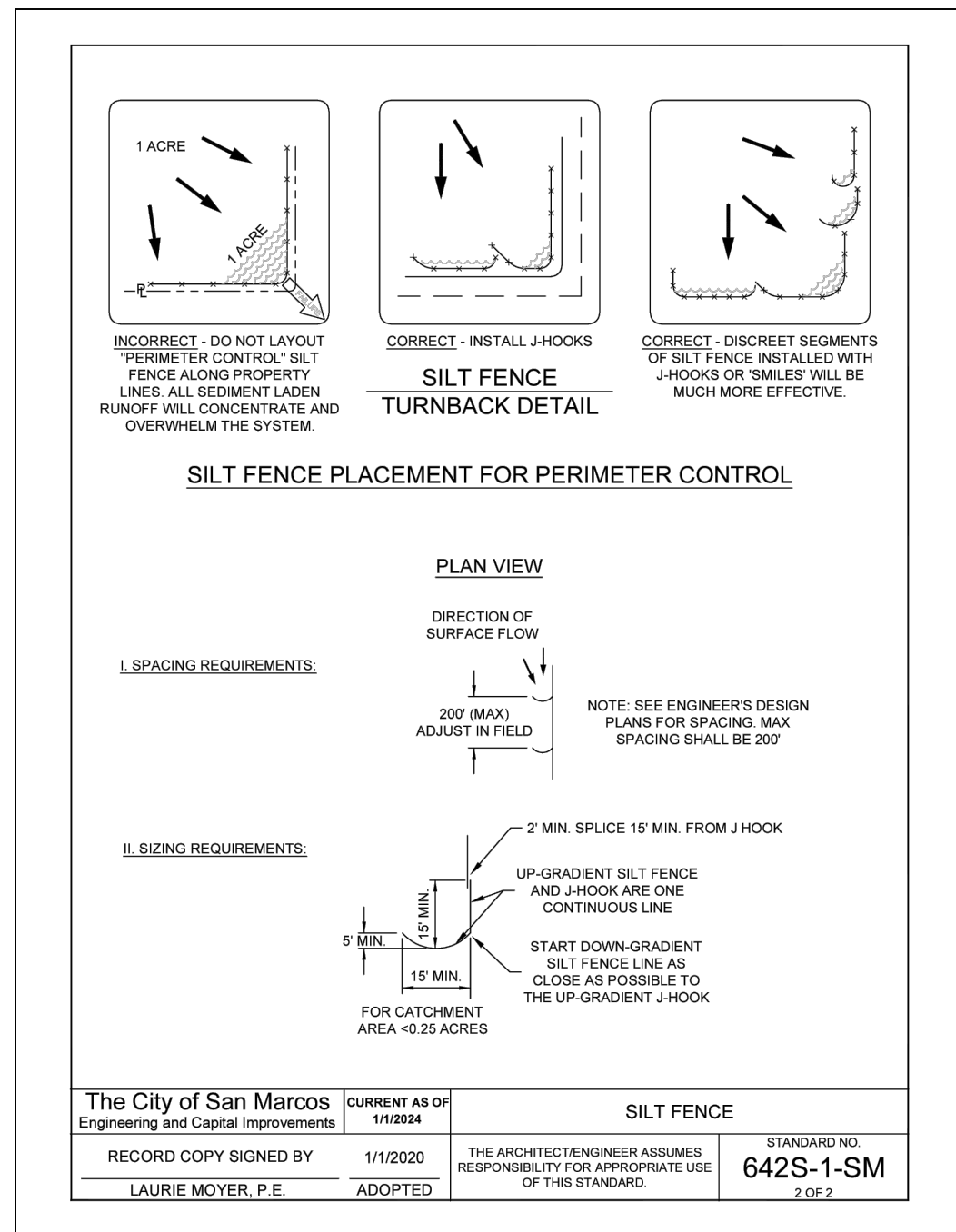
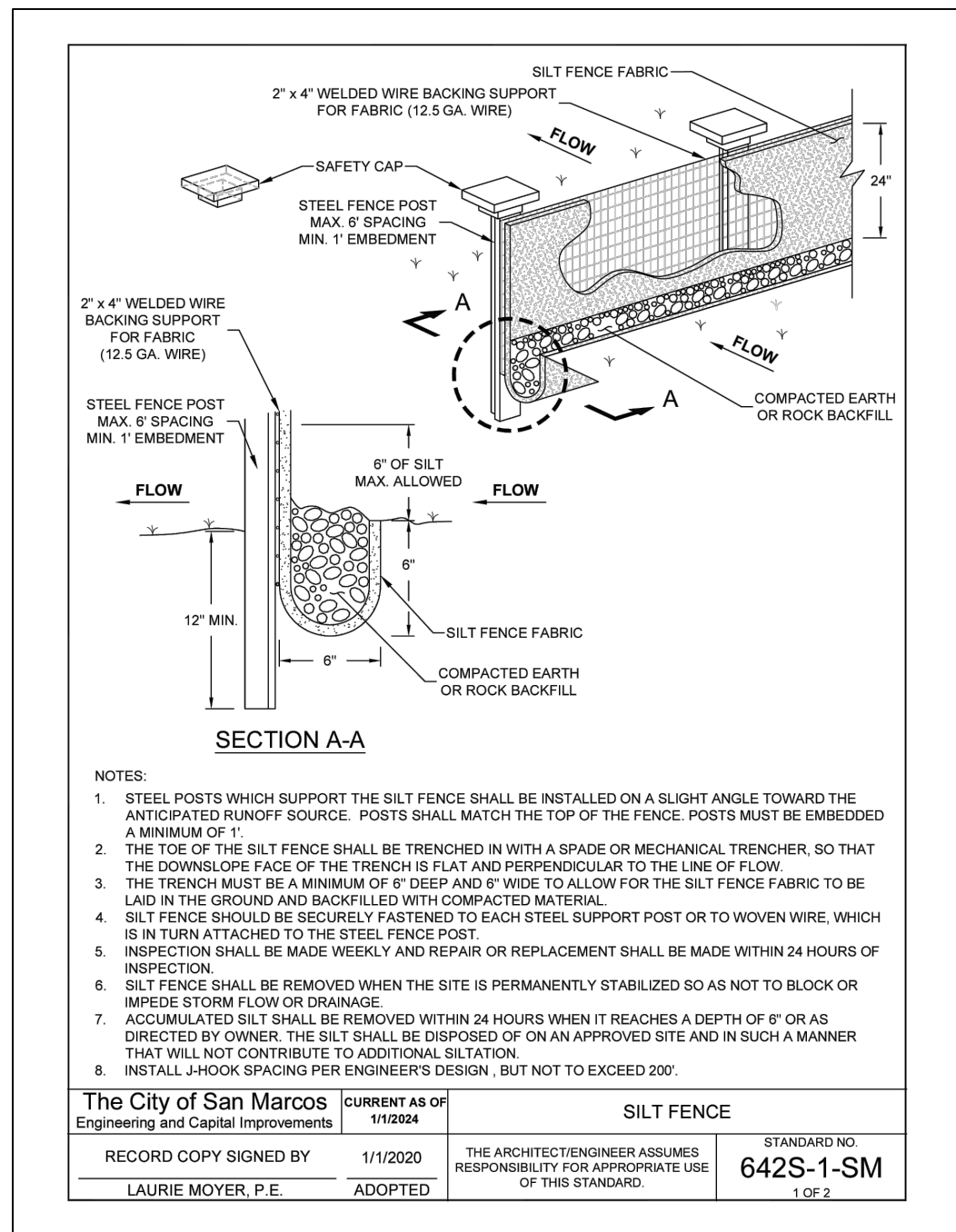
CONCRETE WASHOUT NOTES:

1. THE LINED WASHOUT PIT SHALL BE SUFFICIENTLY LARGE ENOUGH TO HOLD EXPECTED VOLUME OF WASHOUT MATERIAL.
2. WHEN FACILITY IS NO LONGER REQUIRED, HARDENED CONCRETE SHALL PROPERLY REMOVED AND DISPOSED OF.
3. CONTRACTOR TO BACKFILL PIT UPON REMOVAL OF LINING.

SAND BAG NOTES:

1. THE SAND BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD², MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
2. THE BAG LENGTH SHOULD BE 24 TO 30 INCHES, WIDTH SHOULD BE 16 TO 18 INCHES AND THICKNESS SHOULD BE 6 TO 8 INCHES.
3. SANDBAGS SHOULD BE FILLED WITH COARSE GRADE SAND, FREE FROM DELETERIOUS MATERIAL. ALL SAND SHOULD PASS THROUGH A NO. 10 SIEVE. THE FILLED BAG SHOULD HAVE AN INTERNAL HEIGHT OF 18 TO 20 INCHES.
4. THE OUTLET PIPE SHOULD BE SCHEDULE 40 OR STRONGER POLYVINYL CHLORIDE (PVC) HAVING A NOMINAL INTERNAL DIAMETER OF 4 INCHES.

IN-GROUND CONCRETE WASHOUT PIT
N.T.S.



CONTRACTOR/BUILDERS RESPONSIBILITY:

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO ANY LAND DISTURBANCE TO PREVENT EXCESSIVE SEDIMENT FROM LEAVING THE SITE.
2. CONTACT A TCEQ INSPECTOR TO ANSWER AND QUESTIONS REGARDING SITE PLAN TO REVIEW A COMPLETED WORKSHEET.
3. PERIODIC INSPECTION AND MAINTENANCE ARE VITAL TO THE PERFORMANCE OF EROSION AND SEDIMENT CONTROLS. IT IS RECOMMENDED THAT ALL TEMPORARY EROSION CONTROLS BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL.
4. MAINTENANCE ESC (EROSION SEDIMENT CONTROLS) SHOULD BE ROUTINELY INSPECTED AND MAINTAINED UNTIL SITE IS PERMANENTLY VEGETATED. SOMETIMES ROUTINE INSPECTIONS MAY SHOW A NEED FOR ADJUSTMENTS OR ADDITIONAL ESCS.
5. CONSULT INSPECTOR WHEN CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED WITH PERMANENT VEGETATION OR OTHER APPROVED METHODS.
6. REVEGETATE THE SITE: PREVENT EROSION ON INDIVIDUAL LOTS WITH GRASS COVER. EXISTING TREES AND VEGETATION SHOULD BE PROTECTED TO HELP MAINTAIN A STABLE GROUND SURFACE AND PREVENT LOSS OF VALUABLE TOPSOIL. EROSION CONTROL BLANKETS, MATTING AND MULCHES CAN HELP STABILIZE THE AREA UNTIL PERMANENT VEGETATION IS ESTABLISHED. THE SITE NEEDS TO HAVE AT LEAST 80 PERCENT VEGETATION BEFORE ESCS CAN BE REMOVED.

COMPLIANCE CHECKLIST:

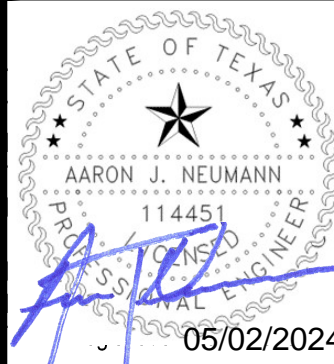
1. PERIMETER CONTROLS: INSTALL ESC'S (EROSION SEDIMENT CONTROLS) ALONG THE BACK OF THE CURB AND ALONG THE LOT LINE OF ADJACENT PROPERTIES, WHICH ARE DOWNHILL AND RECEIVE RUNOFF FROM YOUR LOT. FOLLOWING SIDEWALK INSTALLATION, ESC'S SHOULD BE REMOVED TO THE BACK OF THE SIDEWALK TO PREVENT SEDIMENT FROM REACHING THE SIDEWALK. MAINTAIN ESC'S TO ENSURE PROPER FUNCTION, INCLUDING REPAIR OR REPLACEMENT OF TORN, DEGRADED OR OTHERWISE INEFFECTIVE MATERIALS. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE PROTECTION.
2. STOCKPILES: INSTALL SEDIMENT CONTROL AROUND STOCKPILES TO PREVENT SEDIMENT FROM REACHING THE STREET AND ADJACENT PROPERTIES. LOCATE STOCKPILES AWAY FROM THE STREET, PROPERTY LINES AND DRAINAGE WAYS.
3. REUSE OF MATERIALS: FOR INDIVIDUAL LOT, MAINTAIN SURFACE SUBSTRATE FOR PARKING AND UNLOADING TO PREVENT THE TRACKING OF MUD AND ROCK ONTO THE STREET. A MINIMUM OF 6-INCH DEPTH OF 3-TO 5-INCH AGGREGATE IS SUGGESTED. ALL VEHICLES THAT ACCESS THE LOT MUST USE THE CONSTRUCTION ENTRANCE. ANY SOILS THAT ARE TRUCKED ONTO THE STREET MUST BE REMOVED BY THE END OF THE DAY.
4. INTERMEDIATE CONTROL: LONG OR STEEP DRAINAGE PATHS MAY REQUIRE INTERMEDIATE OR INTERIOR ESC'S TO HELP SLOW THE FLOW OF RUNOFF. FAILURE OF PERIMETER CONTROLS DUE TO THE FORCE OF RUNOFF OFFEN DETERMINE THE NEED FOR INTERMEDIATE CONTROLS.
5. HOUSEKEEPING: PROVIDE ADEQUATE SANITARY FACILITIES AND TRASH/REFUSE BINS.

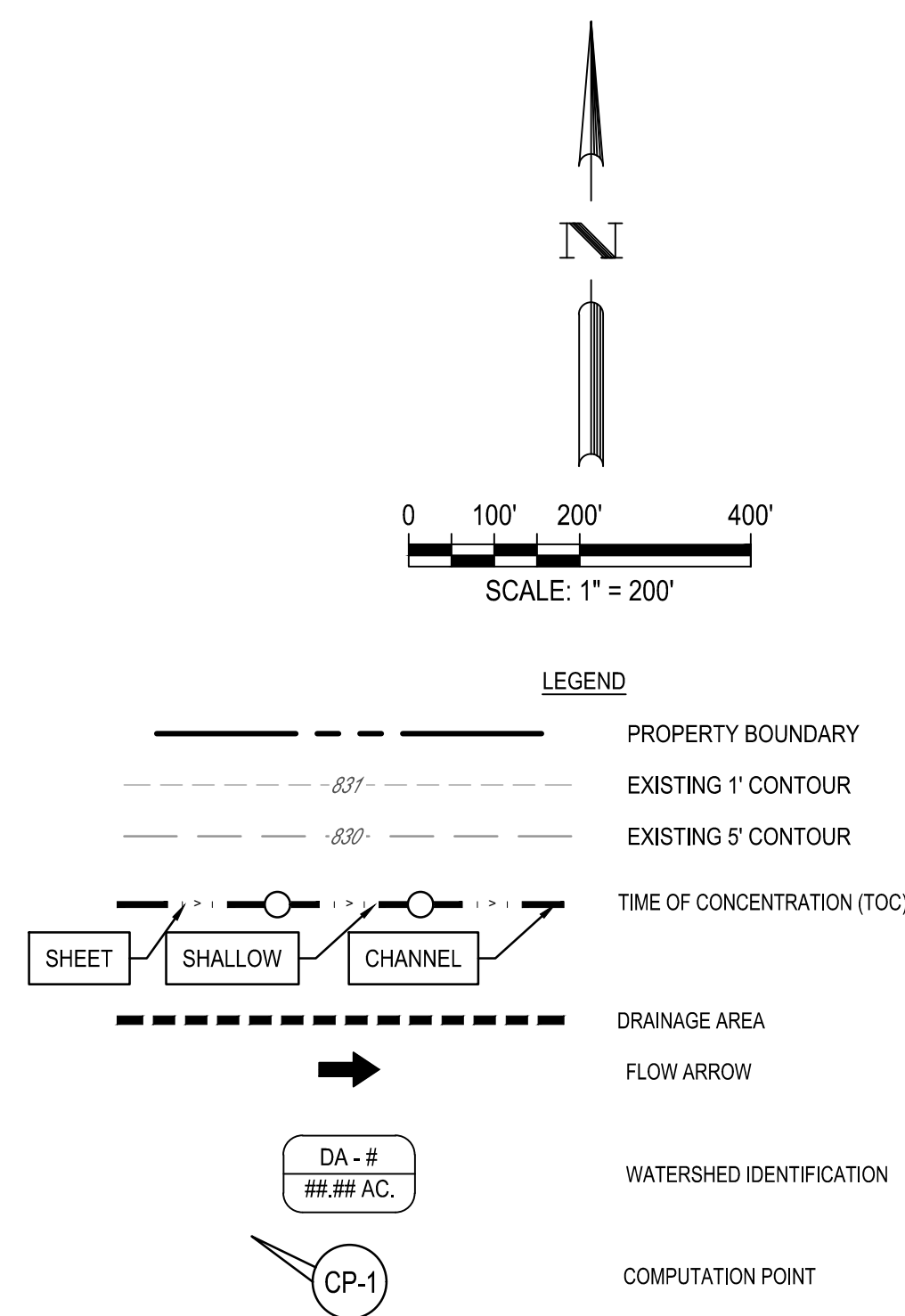


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WIMBURY RIDGE

EROSION CONTROL DETAILS





- ## NOTES
1. THE SCS METHOD WAS USED FOR CALCULATING PEAK FLOW RATES FOR ALL WATERSHEDS.
 2. RAINFALL DATA WAS OBTAINED FROM CITY OF AUSTIN STORM WATER DESIGN CRITERIA MANUAL.
 3. CN-VALUES WERE OBTAINED FROM CITY OF AUSTIN STORM WATER DESIGN CRITERIA MANUAL.
 4. IMPERVIOUS COVER VALUES WERE OBTAINED FROM CITY OF AUSTIN WATER DESIGN CRITERIA MANUAL.
 5. TOPOGRAPHIC INFORMATION WAS OBTAINED USING USGS LIDAR INFORMATION.
 6. HYDROLOGIC MODELS FOR CALCULATING DEVELOPMENT RUNOFF VALUES WERE CREATED BY USING HECH-MS 4.11 ROUTING SOFTWARE.

PRE-DEVELOPMENT DRAINAGE ANALYSIS CALCULATIONS (NRCS; SCS Unit Hydrograph Method) - CITY OF WIMBERLY																								
Governing References: City of Austin United Development Code NRCS Technical Release 55; <i>Urban Hydrology for Small Watersheds</i>					Runoff CN: TR-55, Table 2.2a thru 2.2c	Manning's: TR-55, Table 3-1 C.o.B. P ₂ = 4.14				Travel Time: TR-55, eq. 3-3	Velocity: TR-55, Figure 3.1 Travel Time: TR-55, eq. 3-1				Vel _{2hr} <100 ac. Vel _{100yr} >100 ac.		Travel Time: TR-55, (eq. 3-4) * L	T _C = T _S + T _{Ch} + T _{Tr}	T _{1hr} = 0.60T _C	DESIGN STORM ANALYSIS METHODOLOGY NATIONAL RESOURCE CONSERVATION SERVICE (NRCS), SOIL CONSERVATION SERVICE METHOD (SCS); HEC-HMS 4.2.1				
WATERSHEDS					SHEET FLOW				SHALLOW CONCENTRATED FLOW				CHANNEL				T _C	T _{1hr}	Q (c.f.s.) PER FREQUENCY STORM					
CALC. POINT	CONTRIBUTING AREAS	AREA ACREAGE (Ac)	SQUARE MILES (mi ²)	COMPOSITE CN	n	L	s	T _S	PAVED	L	s	vel.	T _{SC}	L	s	vel.								T _{Ch}
						(ft)	(%)	(Min)	(Y/N)	(ft)	(%)	(ft/s)	(Min)	(ft)	(%)	(ft/s)								(Min)
1	WS-1	151.4	0.2366	78.3	0.40	100	2.4%	17.6	N	475	3.9%	3.2	2.48	3,767	3.1%	6.0	10.46	30.5	18.3	242.8	365.9	479.0	640.3	903.5
HEC-HMS 4.2.1 PROGRAM WAS USED TO OBTAIN FLOWS																								

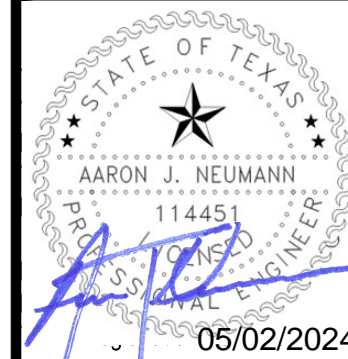
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WIMBURY RIDGE

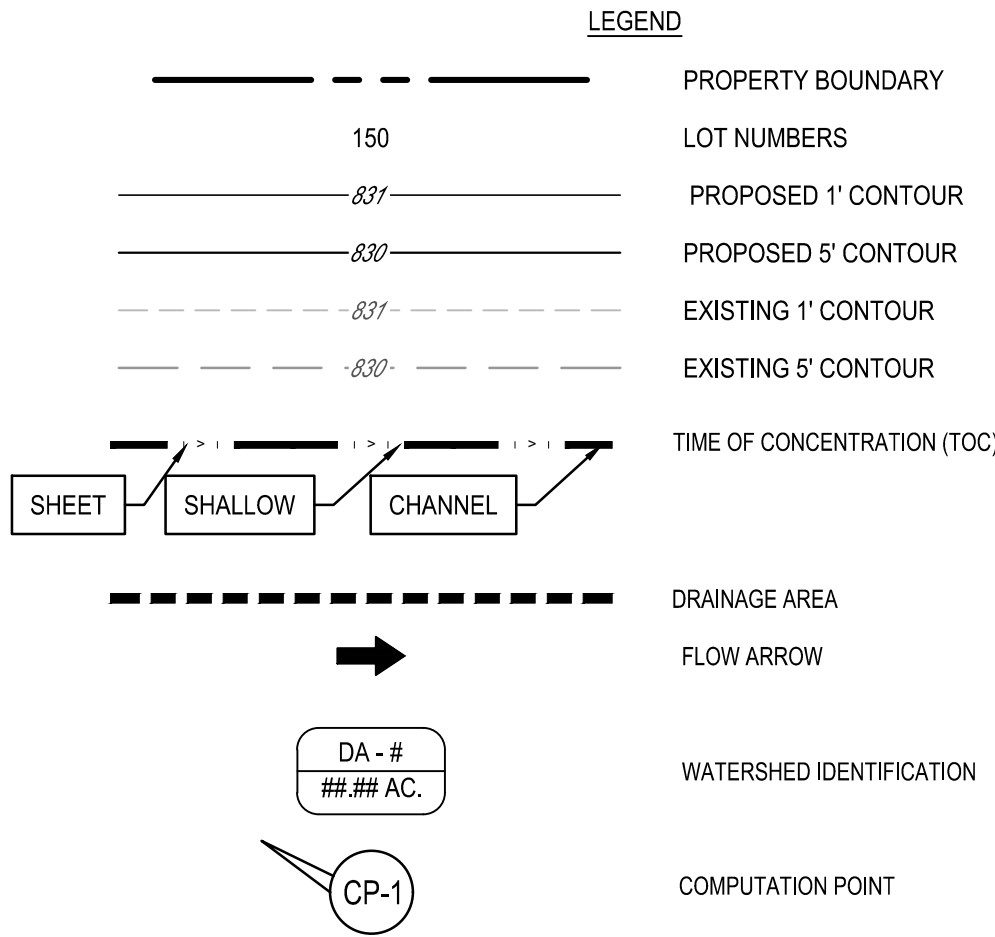
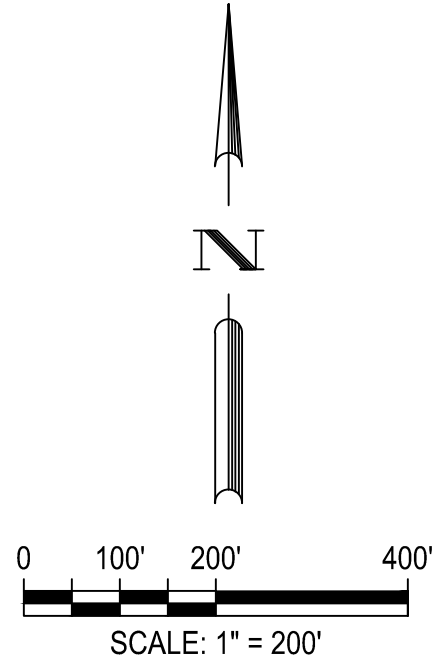
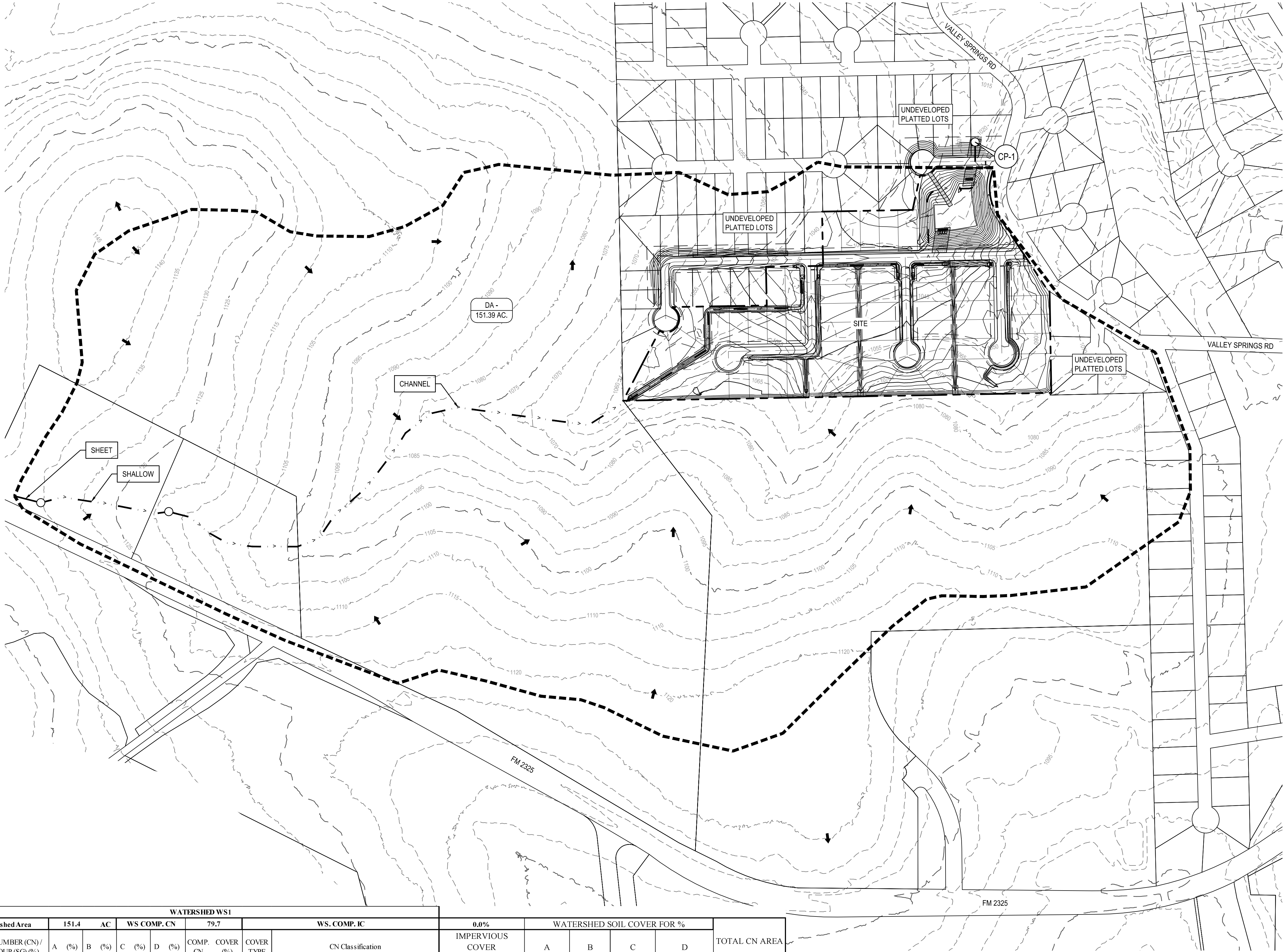
EXISTING CONDITIONS DRAINAGE MAP



05/02/2024

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G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Shts\10 PROPOSED CONDITIONS DRAINAGE MAP.dwg Layout: 10PROPOSED CONDITIONS DRAINAGE MAP.dwg Plotted: 5/2/2024 11:26:10 AM By: T Rodriguez



NOTES

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DRAINAGE ANALYSIS SUMMARY			
STORM EVENT FREQUENCY	PRE (CFS)	POST (CFS)	INCREASE (CFS)
2-YR	242.8	282.4	39.6
5-YR	365.9	420.9	55.0
10-YR	479.0	547.7	68.7
25-YR	640.3	727.4	87.1
100-YR	903.5	1019.8	116.3

WATERSHED WS1									
Watershed Area		151.4 AC		WS COMP. CN		79.7		WS. COMP. IC	
CURVE NUMBER (CN) / SOIL GROUP (SG) (%)	A (%)	B (%)	C (%)	D (%)	COMP. CN	COVER (%)	COVER TYPE	CN Classification	IMPERVIOUS COVER (BY LAND USE)
Classification	30	0.0	55	0.0	70	0.0	77	100.0	0%
Composite CN	36	0.0	60	0.0	73	0.0	79	100.0	0%
	35	0.0	56	0.0	70	0.0	77	100.0	0%
	61	0.0	75	0.0	83	0.0	87	100.0	0%

POST DEVELOPED DRAINAGE ANALYSIS CALCULATIONS (NRCS; SCS Unit Hydrograph Method) - City of Wimberly																									
Governing References: City of Austin United Development Code NRCS Technical Release 55; Urban Hydrology for Small Watersheds					Runoff CN: TR-55, Table 2-2a thru 2-2c	Manning's: TR-55, Table 3-1	C.o.B. P ₂ = 4.14				Travel Time: TR-55, eq. 3-3	Velocity: TR-55, Figure 3.1	Travel Time: TR-55, eq. 3-1	Vel _{shw} <100 ac. Vel _{low} > 100 ac.	Travel Time: TR-55, (eq. 3-4) * L	T _c = T ₁ + T _{2c} + T _{3c}	T _{1a} = 0.60*T _c	DESIGN STORM ANALYSIS METHODOLOGY NATIONAL RESOURCE CONSERVATION SERVICE (NRCS), SOIL CONSERVATION SERVICE METHOD (SCS); HEC-HMS 4.2.1							
WATERSHEDS					SHEET FLOW				SHALLOW CONCENTRATED FLOW				CHANNEL												
CALC. POINT	CONTRIBUTING AREAS	AREA ACRES (Ac)	SQUARE MILES (mi ²)	COMPOSITE CN	n	L (ft)	s (%)	T _s (Min)	PAVED (Y/N)	L (ft)	s (%)	vel. (ft/s)	T _{sc} (Min)	L (ft)	s (%)	vel. (ft/s)	T _{Ch} (Min)	T _c (Min)	T _{1a} (Min)	Q (c.f.s.) PER FREQUENCY STORM					
1	WS-1	151.4	0.2366	79.7	0.40	100	2.4%	17.6	N	475	3.9%	3.2	2.48	3,767	3.1%	6.0	10.46	30.5	18.3		2	5	10	25	100
HEC-HMS 4.2.1 PROGRAM WAS USED TO OBTAIN FLOWS																									

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WIMBERLEY RIDGE

PROPOSED CONDITIONS DRAINAGE MAP



05/02/2024

SHEET

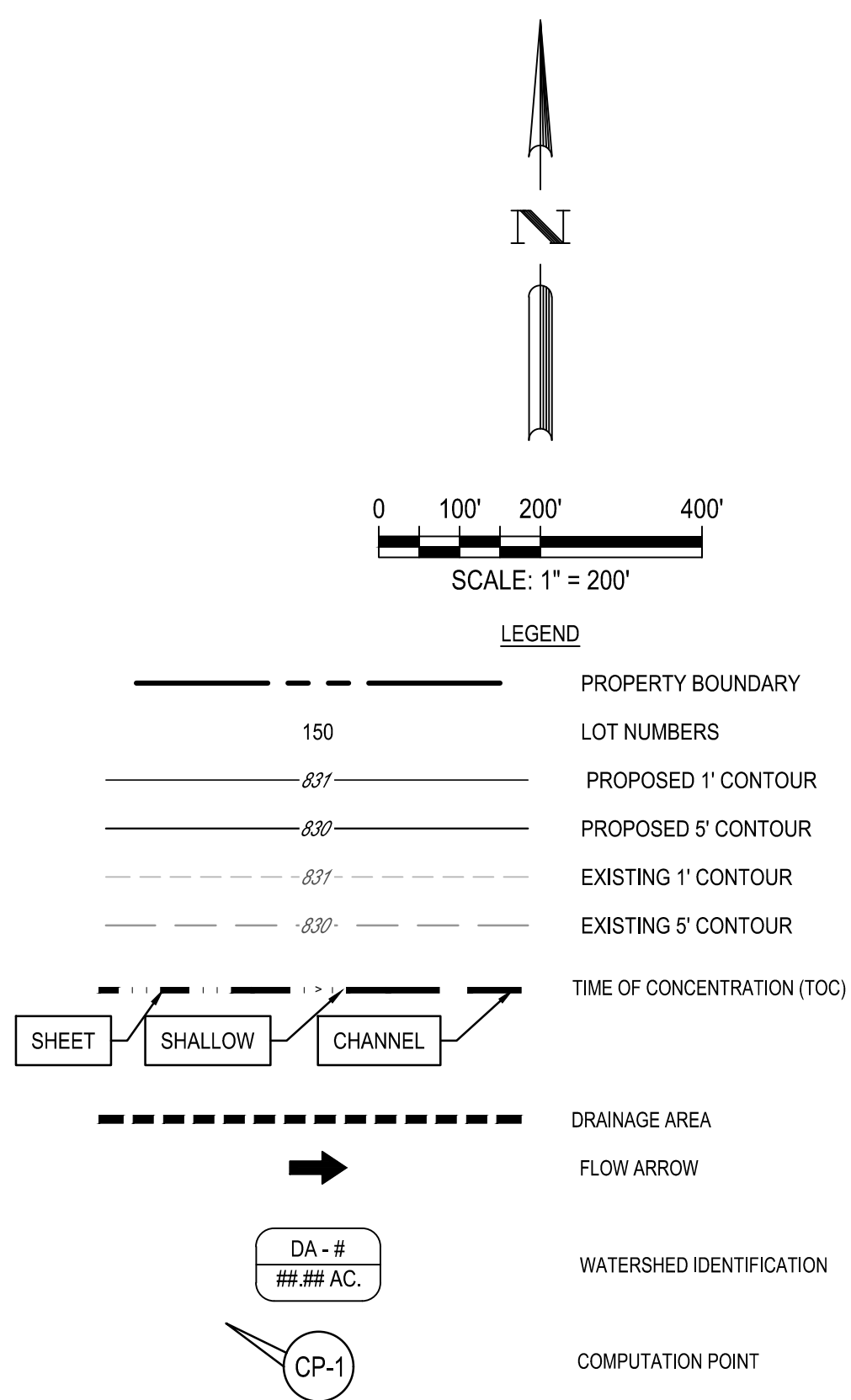
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DATE	REV	DESCRIPTION
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REVIEWED BY: TR
DRAWN BY: RA



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1. THE RATIONAL METHOD WAS USED FOR CALCULATING PEAK FLOW RATES FOR ALL WATERSHEDS.
2. WATERSHED BOUNDARIES WERE ESTABLISHED USING A COMBINATION OF LIDAR DATA RECEIVED FROM TNRI, USGS MAP INFORMATION AND FIELD INVESTIGATIONS.
3. FOR PEAK FLOW RATE COMPUTATION ALL 'C' VALUES WERE BASED ON FULLY DEVELOPED CONDITIONS

NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

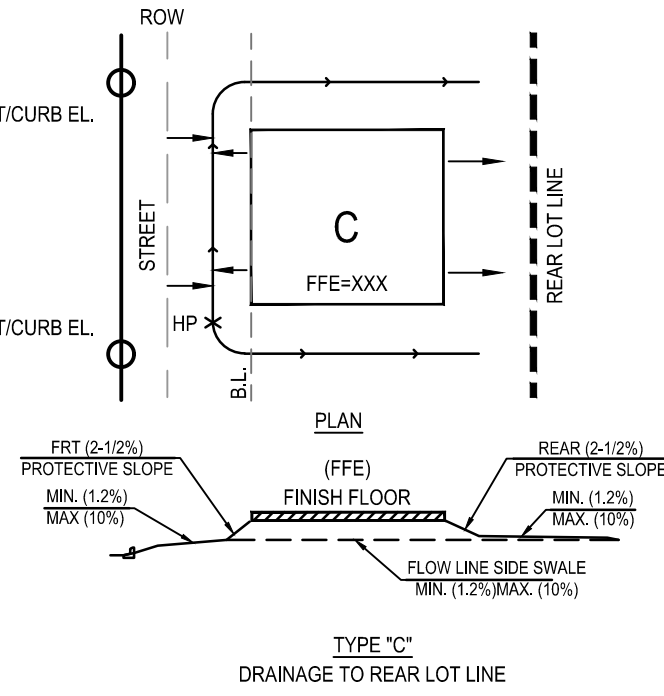
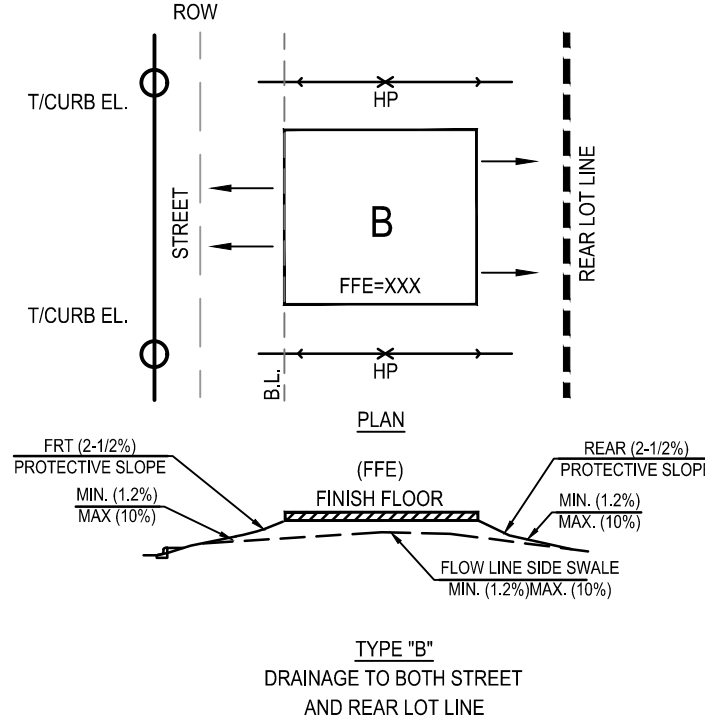
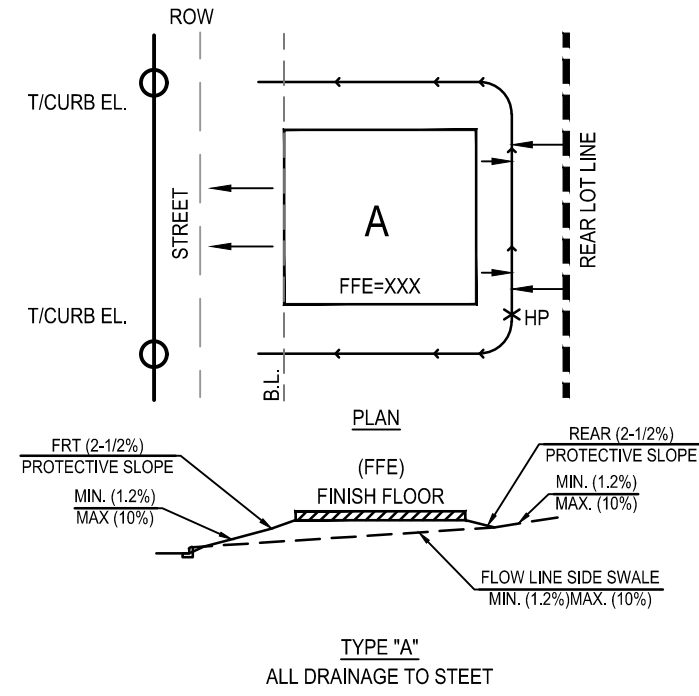
ONSITE DRAINAGE AREA MAP



		DRAINAGE AREA CHARACTERISTICS		SHEET FLOW							SHALLOW CONC. FLOW (LOT SWALE + STREET FLOW)							CHANNEL FLOW			T _c	RUNOFF 'C'		PEAK STORM								
		ID	INFRASTRUCTURE TYPE	AREA	L	CoSA/ETJ P ₂ = 4.140		s	T _i	T _i	L	ELEV. 1	ELEV. 2	PAVED?		s	T _{sc}	L	V	T _{ch}		AVG "s"	'C'	2-YR		10-YR		25-YR		100-YR		
RUNOFF COEFFICIENT	SURFACE TYPE			(AC)	(FT)	ELEV. 1	ELEV. 2	n	(%)	(MIN)	(MIN)	(FT)	ELEV. 1	ELEV. 2	Y/N	K	(%)	(MIN)	(FT)	(FT/S)		(MIN)	(MIN)	(%)	'C'	i	Q	i	Q	i	Q	i
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-01	CHANNEL B	71.10	100.0	1,137.7'	1,135.3'	0.240	2.4%	11.62	11.62	481.4	1,135.3'	1,117.0'	N	16.13	3.8%	2.55	2155.4	6	2.55	16.73	3.6%	80	4.05	230.36	6.08	345.83	7.43	422.62	9.65	548.89
CHANNEL B (R-01) - ALIGNMENT CHNL B																								230.36		345.83		422.62		548.89		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-10		5.03	100.0	1,109.9'	1,107.4'	0.240	2.5%	11.44	11.44	1,037.6	1,107.4'	1,059.2'	N	16.13	4.7%	4.97	840.2	6	4.97	21.38	4.5%	80	3.67	14.77	5.5	22.13	6.72	27.04	8.71	35.05
R-10																								14.77		22.13		27.04		35.05		
CHANNEL B1 (R-01,10) - ALIGNMENT CHNL B																								245.13		367.96		449.66		583.94		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-11		3.24	100.0	1,093.0'	1,089.1'	0.240	3.9%	9.61	9.61	690.0	1,089.1'	1,060.0'	N	16.13	4.2%	3.47	736.9	6	3.47	16.55	4.2%	80	4.06	10.52	6.11	15.84	7.46	19.34	9.68	25.09
CHANNEL C (R-11) - ALIGNMENT CHNL C																								10.52		15.84		19.34		25.09		
CULVERT B (REACH 1): R-01,10,11 - ALIGNMENT CHNL C																								255.66		383.80		469.00		609.03		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-09		3.16	100.0	1,095.0'	1,091.4'	0.240	3.6%	9.92	9.92	602.2	1,091.4'	1,053.0'	N	16.13	6.4%	2.46	259.6	6	2.46	14.84	6.0%	84	4.22	11.20	6.34	16.83	7.75	20.57	10.07	26.73
CHANNEL A1 (R-09) - ALIGNMENT CHNL A1																								11.20		16.83		20.57		26.73		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-02		22.50	100.0	1,124.0'	1,122.7'	0.240	1.3%	14.91	14.91	603.0	1,122.7'	1,089.8'	N	16.13	5.5%	2.67	782.4	6	2.67	20.24	0.2%	75	3.76	63.45	5.65	95.34	6.9	116.44	8.94	150.86
CHANNEL A (R-02) - ALIGNMENT CHNL A																								63.45		95.34		116.44		150.86		
CHANNEL A2 (R-02,09) - ALIGNMENT CHNL A1																								74.65		112.17		137.01		177.59		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-08		1.39	100.0	1,083.6'	1,078.2'	0.240	5.3%	8.46	8.46	320.4	1,078.2'	1,047.9'	N	16.13	9.5%	1.08	289.3	6	1.08	10.61	8.5%	84	4.89	5.71	7.4	8.64	9.07	10.59	11.84	13.82
CHANNEL A3 (R-02,08,09) - ALIGNMENT CHNL A1																								80.36		120.81		147.60		191.42		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-14		2.09	100.0	1,080.4'	1,071.2'	0.240	9.1%	6.83	6.83	28.9	1,071.2'	1,060.0'	N	16.13	38.8%	0.05	469.6	6	.05	6.92	15.8%	84	5.77	10.13	8.72	15.31	10.7	18.78	13.95	24.49
CHANNEL H - (R-14) ALIGNMENT CHNL H																								10.13		15.31		18.78		24.49		
CHANNEL C1 (R-02,08,09,01,10,11,14) - ALIGNMENT CHNL C & G																								346.15		519.92		635.38		824.94		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-07		1.69	100.0	1,106.9'	1,102.2'	0.240	4.7%	8.88	8.88	456.8	1,102.2'	1,054.0'	N	16.13	10.5%	1.45	424.5	6	1.45	11.79	9.5%	84	4.7	6.67	7.1	10.08	8.7	12.35	11.35	16.11
CHANNEL G (R-07) - ALIGNMENT G																								6.67		10.08		12.35		16.11		
CULVERT C (REACH 2): R-02,08,09,01,10,11,07,14 - ALIGNMENT C																								352.82		530.00		647.73		841.05		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-06		2.06	100.0	1,106.9'	1,102.0'	0.240	4.8%	8.81	8.81	498.2	1,102.0'	1,052.0'	N	16.13	10.0%	1.62	376.0	6	1.62	12.06	9.2%	84	4.66	8.06	7.04	12.18	8.62	14.92	11.24	19.45
CHANNEL F (R-06) -ALIGNMENT F																								8.06		12.18		14.92		19.45		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-04		20.54	100.0	1,114.0'	1,109.8'	0.240	4.2%	9.31	9.31	805.8	1,109.8'	1,057.8'	N	16.13	6.4%	3.28	409.7	6	3.28	15.86	6.2%	84	4.12	71.08	6.19	106.80	7.57	130.61	9.83	169.60
CHANNEL J (R-04) - ALIGNMENT J																								71.08		106.80		130.61		169.60		
CULVERT D (REACH 3): R-04																								71.08		106.80		130.61		169.60		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-05		1.79	100.0	1,059.0'	1,058.3'	0.240	0.7%	18.67	18.67	19.6	1,058.3'	1,056.2'	N	16.13	10.7%	0.06	319.1	6	.06	18.80	2.4%	77	3.88	5.35	5.83	8.04	7.12	9.81	9.23	12.72
CHANNEL I (R-04) - ALIGNMENT I																								5.35		8.04		9.81		12.72		
CHANNEL D (R-04,05) - ALIGNMENT D																								76.43		114.84		140.42		182.32		
CULVERT A (REACH 4): R-01, 10, 11, 02, 08, 09, 04, 05, 06, 07,14																								437.31		657.02		803.07		1042.83		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-03		11.39	100.0	1,102.0'	1,095.5'	0.240	6.5%	7.83	7.83	741.2	1,095.5'	1,058.3'	N	16.13	5.0%	3.42	825.0	6	3.42	14.66	0.8%	75	4.24	36.22	6.38	54.50	7.8	66.63	10.14	86.62
CHANNEL E (R-03) - ALIGNMENT E																								36.22		54.50		66.63		86.62		
CLOSELY BUILT RESIDENTIAL	DENSE GRASSES²	DA-13		1.7	100	1041.6	1040.1	0.240	1.4%	14.3	14.3	324.6	1040.14	1030	N	16.13	3.1%	3.42			17.69	0.34%	75	3.97	5.06	5.97	7.61	7.29	9.29	9.46	12.06	
UNDEVELOPED RESIDENTIAL	DENSE GRASSES²	DA-14	OFFSITE	1.84	100	1042.3	1038.8	0.240	3.6%	10.0	10.0	297.424	1038.78	1032	N	16.13	2.3%	4.42			14.38	0.90%	65	4.29	5.13	6.46	7.73	7.89	9.44	10.26	12.27	
CP-1																								483.73		726.86		888.43		1153.78		

ALIGNMENT T	STATION	REACH	WATERSHED	SHAPE	CHANNEL SLOPE (%)	BOTTOM WIDTH (FT)	DEPTH (FT)	MANNING'S N	SIDE SLOPES (Z:1;Z:1)	TOP WIDTH	VELOCITY (FT/S)	Q (CFS)	CONCRETE LINED
A	1+00-1+12	A	DA-02	Triangular	2.26%	-	2.0	0.011	3:3	12	16.84	150.86	YES
	1+12-2+29				1.00%						12.83		YES
	2+29-END				33.3%						45.81		YES
A1	6+90-END	A1	DA-09	Triangular	33.3%	-	2.5	0.011	3:4	17.5	29.36	26.73	YES
	5+50-6+90				2.58%						11.36		YES
	4+63 - 5+50				3.21%						12.55		YES
	3+50-4+63	A2	R-02 + R-09	Triangular	3.21%	-	2.5	0.011	3:4	17.5	20.07	177.59	YES
	2+50 - 3+50	A3	DA-08 + R-02 + R-09	Triangular	3.05%	-	2.5	0.011	3:4	17.5	20.09	191.42	YES
	1+48 - 2+50				0.75%						11.83		YES
	1+37 - 1+48			25.00%	10	5.0	-		10	39.07	YES		
	1+00 - 1+48			0.3% (RULED BY CROSS SLOPE)						9.43	YES		
	B	10+70 - END	B	DA-01	Trapezoidal	33.3%	3.0	4.0	0.011	3:4	31.00	69.80	548.89
9+00 - 10+70		0.69%				16.64						YES	
5+50 - 9+00		0.69%				16.93						YES	
3+00 - 5+50		B1	DA-10 + R-01	Trapezoidal	2.71%	3.0	4.0	0.011	2:2	31.00	28.27	583.94	YES
2+75 - 3+00					16.52%						51.68		YES
1+25 - 2+75					0.85%						19.08		YES
1+00 - 1+25				0.5% (RULED BY CROSS SLOPE)	15.78	YES							
C	12+44 - 12+50	C	DA-11	Triangular	33.3%	-	2.5	0.011	3:4	17.5	15.5	25.09	YES
	11+00 - 12+44				1.09%						4.31		NO
	9+50 - 11+00				1.48%						4.82		NO
	9+00 - 9+50				2.93%						11.78		YES
	7+00 - 9+00				3.50%						12.74		YES
	6+20 - 7+00				1.70%						5.06		NO
	6+00 - 6+20				25.00%						13.83		YES
	5+00 - 6+00				1.00%						22.3		YES
	1+00 - 1+50	C1	DA-11 + (R-09,10) DA-06 + (R-02,08,09,10,11, 14, 06)	U-SHAPED	2.50%	10.0	6.0	0.011	-	10	30.9	824.94	YES
	4+14 - 4+33	D	DA -04 & DA-05	Triangular	2.00%	-	3.0	0.011	3:4	21	17.01	182.32	YES
1+15 - 1+30	U-SHAPED			25.00%	10	7.0	0.011	-	10	37.96	YES		
E	1+16 - 5+27	E	DA-03	Triangular	0.47%	-	2.25	0.011	3:3	13.5	8.44	86.62	YES
F	1+48 - 1+69	F	DA-06	Triangular	8.87%	-	1.50	0.011	3:4	10.5	16.52	19.45	YES
	1+24 - 1+48			U-SHAPED	33.3%	10	6.00	0.011	-	10	16.21	YES	
G	1+48 - 1+69	G	DA-07	Triangular	6.14%	-	1.50	0.011	3:4	10.5	13.68	16.11	YES
	1+24 - 1+48			U-SHAPED	33.3%	10	6.00	0.011	-	10	5.56	YES	
H	0+17 - 3+76	H	DA - 14	Triangular	3.28%	-	1.5	0.011	3:3	9	12.76	24.49	YES
	0.05 - 0+17			Triangular	25.00%	-	3	0.011	2:2	12	28.98	YES	
I	0+07 - 4+64	I	DA - 05	Triangular	4.18%	-	1.5	0.011	3:3	9	11.78	12.72	YES
	0+00 - 0+07			Triangular	33.3%	-	1.5	0.011	3:3	9	25.22	YES	
K	3+83 - 5+30	K	DA-04	Triangular	0.90%	-	3	0.011	3:4	21	12.36	169.60	YES
	1+28 - 3+83			Triangular	1.30%	-	3	0.011	3:4	21	14.16	YES	

G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Shts\13 OVERALL GRADING PLAN.dwg Layout: 13ERALL GRADING PLAN Plotted: 5/2/2024 11:27:16 AM By: T Rodríguez



GENERAL NOTES:

- HOME BUILDER SHALL REFER TO THE APPROVED SUBDIVISION PLAT TO CONFIRM ALL BUILDING SETBACKS PRIOR TO ANY FOUNDATION WORK.
- AS SOON AS PRACTICAL, HOME BUILDER SHALL ESTABLISH VEGETATION (HYDROMULCH, SEEDING, SODDING, ETC...) TO PREVENT EROSION FROM OCCURRING.
- CONTRACTOR SHALL CONTACT ENGINEER REGARDING ANY QUESTIONS ON THE INTENT OF THIS PLAN.
- POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS AND TOWARDS THE PROPER DRAINAGE EASEMENT OR STREET RIGHT OF WAY ACCORDING TO THE MASTER DRAINAGE PLAN FOR THE PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW PONDING OF WATER.
- GRADING PLAN IS INTENDED FOR USE IN LOT GRADING ONLY. CONTRACTOR SHOULD REFER TO CONSTRUCTION DRAWINGS FOR ALL OTHER GRADES, INCLUDING, BUT NOT LIMITED TO, CHANNELS, ROADS, AND DETENTION PONDS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ALL SWALES.
- EARTHEN GRADING SLOPES SHALL BE NO GREATER THAN 3:1.
- SLOPES GREATER THAN 3:1 ARE ASSUMED TO BE MILLED ROCK. IF SITE CONDITIONS VARY FROM THIS, NOTIFY ENGINEER IMMEDIATELY.

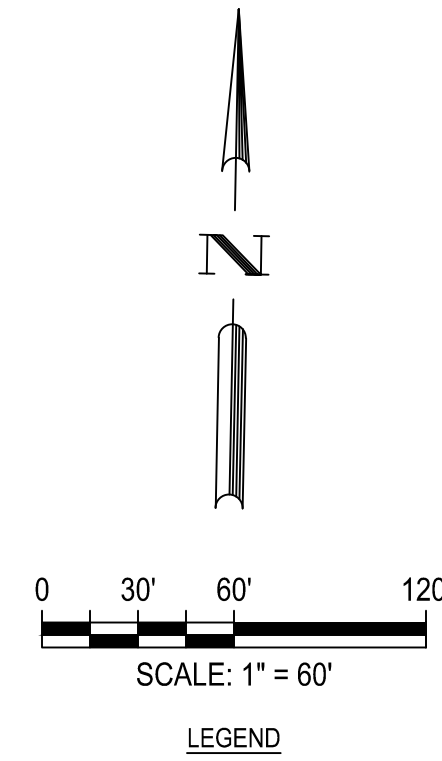
FINISHED FLOOR ELEVATIONS

THE ELEVATION OF THE LOWEST FLOOR SHALL BE AT LEAST 10 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND OR FINISHED FLOOR ELEVATION WHICH EVER IS HIGHER, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DIRECT STORM WATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO THE STORM WATER CONVEYANCE STRUCTURES MUST HAVE FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE STRUCTURE.

MINIMUM FINISHED FLOOR ELEVATION ESTABLISHED. SEE PLAT FOR FINISHED FLOOR ELEVATIONS

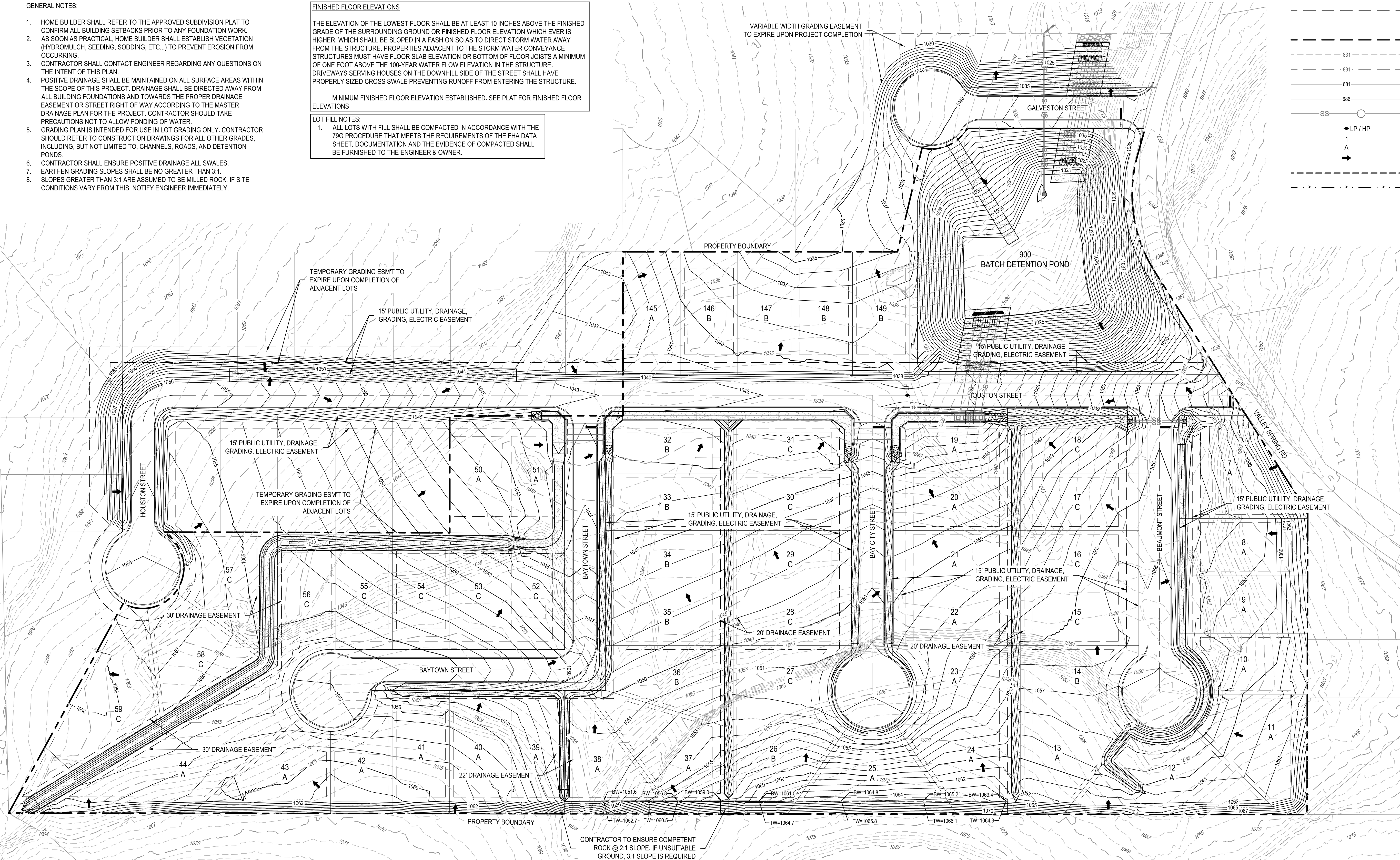
LOT FILL NOTES:

- ALL LOTS WITH FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE 79G PROCEDURE THAT MEETS THE REQUIREMENTS OF THE FHA DATA SHEET. DOCUMENTATION AND THE EVIDENCE OF COMPACTED SHALL BE FURNISHED TO THE ENGINEER & OWNER.



LEGEND

---	PROPERTY BOUNDARY
---	BUILDING SETBACK
---	PROPOSED LOT LINES
---	EASEMENT
---	EXISTING MINOR CONTOUR
---	EXISTING MAJOR CONTOUR
---	PROPOSED MINOR CONTOUR
---	PROPOSED MAJOR CONTOUR
---	PROPOSED STORM LINE WITH MANHOLE
---	LOW POINT/HIGH POINT
---	LOT NUMBER AND GRADING TYPE
---	DIRECTION OF FLOW
---	RETAINING WALL
---	PROPOSED SWALE FLOWLINE



NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

OVERALL GRADING PLAN



05/02/2024

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13

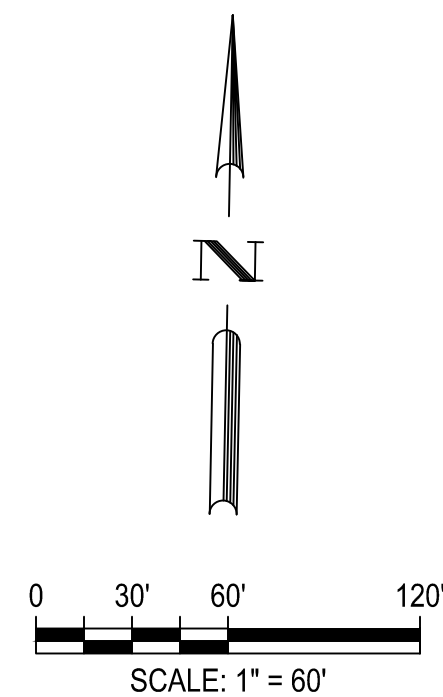
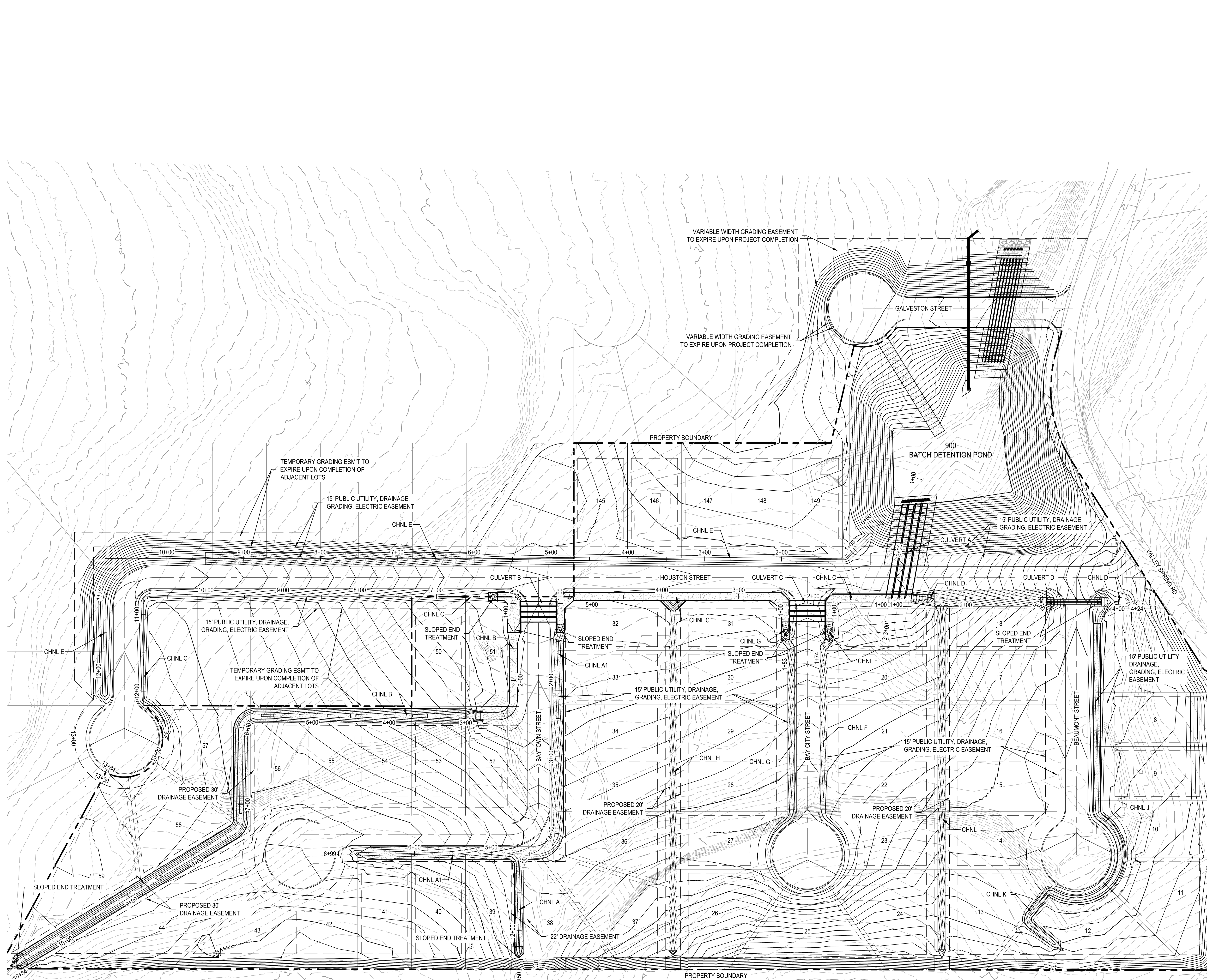
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TEL: 214-581-3800 • www.bgeinc.com
TXPE Registration No. F-1045



DESIGNED BY:	##
REVIEWED BY:	##
DRAWN BY:	##

DATE	REV	DESCRIPTION
APR		

G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Shts\14 STORM DRAIN COLLECTION SYSTEM.dwg Layout: 14ORW DRAIN COLLECTION SYSTEM Plotted: 5/2/2024 11:27:40 AM By: Lhuck



- LEGEND
- PROPERTY BOUNDARY
 - EASEMENT
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED STORM DRAIN LINE
 - PROPOSED STORM DRAIN MANHOLE
 - PROPOSED WASTEWATER FORCEMAIN
 - PROPOSED WATER LINE
 - PROPOSED WASTEWATER SERVICES
 - PROPOSED WATER SERVICES
 - DIRECTION OF FLOW
 - UTILITY CROSSING
 - PROPOSED SWALE FLOWLINE

- PROFILE LEGEND
- PROPOSED STORM PIPE
 - 25 YEAR HGL
 - 100 YEAR HGL
 - PROPOSED GROUND
 - EXISTING GROUND
- * ALL WATER/WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

NOT FOR CONSTRUCTION

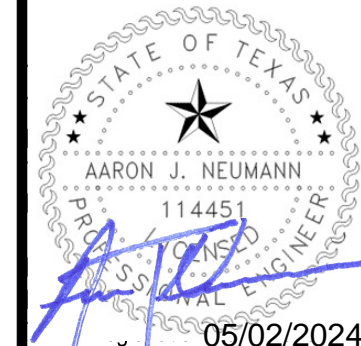
DATE	REV	DESCRIPTION
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DESIGNED BY: AG
REVIEWED BY: TR
DRAWN BY: RA



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TXPE Registration No. F-1046

WIMBERLEY RIDGE
STORM DRAIN COLLECTION SYSTEM

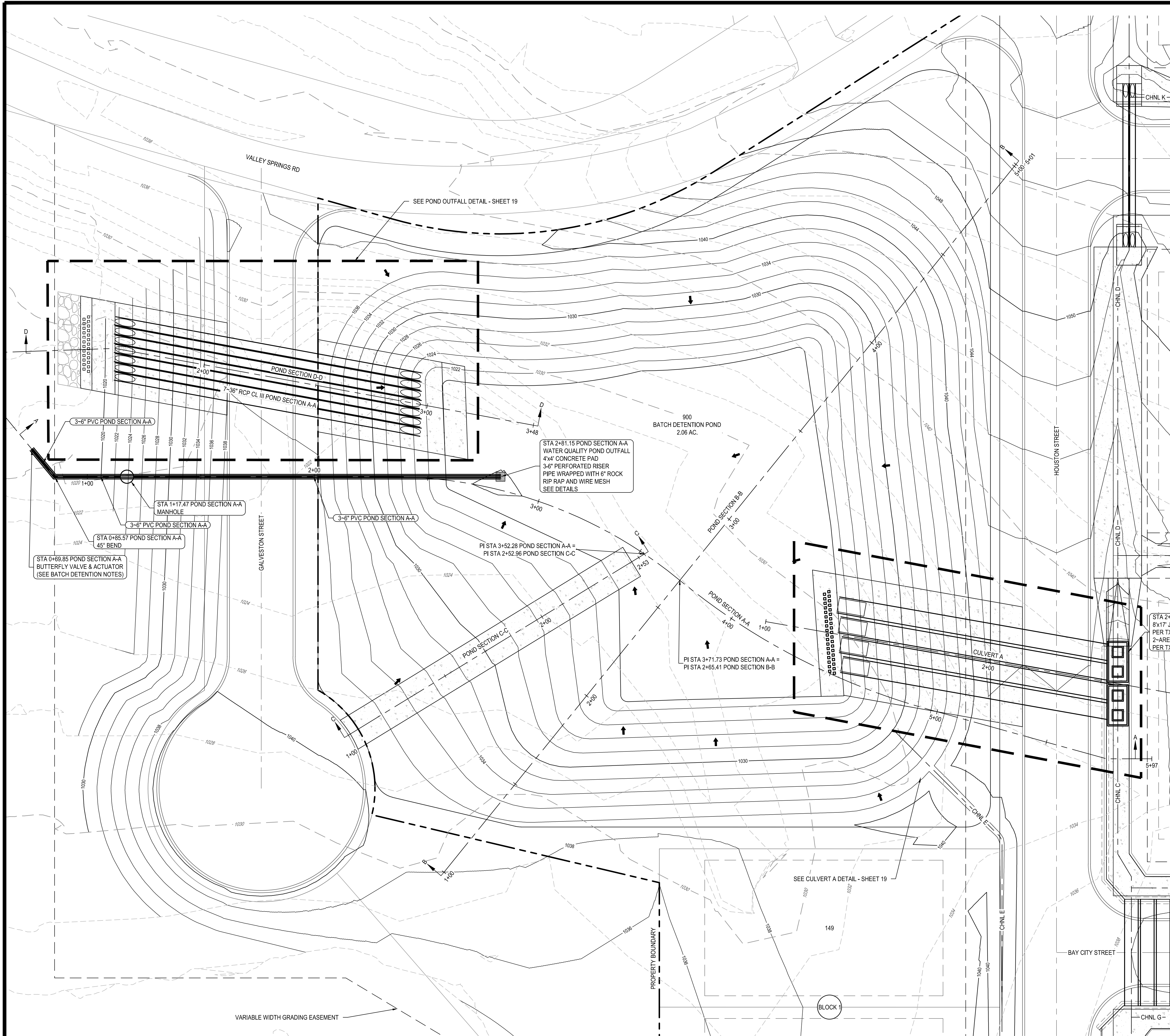


05/02/2024

SHEET

14

G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Sha15-20 DETENTION POND PLAN.dwg Layout: BATCH DETENTION POND PLAN Plotted: 5/2/2024 11:28:09 AM By: Lhuck



0 10' 20' 40'
SCALE: 1" = 20'

LEGEND

- PROPERTY BOUNDARY
- - - EASEMENT
- - - 631 EXISTING MINOR CONTOUR
- - - 681 EXISTING MAJOR CONTOUR
- - - 686 PROPOSED MINOR CONTOUR
- - - PROPOSED MAJOR CONTOUR
- - - PROPOSED STORM DRAIN LINE
- - - PROPOSED FORCEMAIN LINE
- - - PROPOSED WATER LINE
- DIRECTION OF FLOW

NOTE: UPON COMPLETION OF THE PROPOSED SITE IMPROVEMENTS, AND PRIOR TO THE RELEASE OF THE CERTIFICATE OF ACCEPTANCE OR OCCUPANCY BY THE PERMIT CENTER, THE DESIGN ENGINEER SHALL CERTIFY IN WRITING THAT THE PROPOSED DETENTION FACILITY, FILTRATION FACILITIES AND/OR WATER QUALITY FACILITIES WERE CONSTRUCTED IN CONFORMANCE WITH THE APPROVED PLANS.

BATCH DETENTION POND STORAGE VOLUMES				
BASIN: 900 BATCH DETENTION POND				
CONTOUR ELEVATION (FT)	CONTOUR AREA (FT ²)	INCREMENTAL DEPTH (FT)	AVG. END AREA INCREMENTAL VOLUME (FT ³)	AVG. END AREA CUMULATIVE VOLUME (FT ³)
1,020.00	137			
1,021.00	19,711	1	9,924	9,924
1,022.00	21,712	1	20,712	30,636
1,022.80	23,380	0.8	18,037	48,672
1,023.00	23,798	0.2	4,718	53,390
1,024.00	25,972	1	24,885	78,275
1,025.00	28,230	1	27,101	105,376
1,026.00	30,574	1	29,402	134,778
1,027.00	33,003	1	31,789	166,567
1,028.00	35,517	1	34,260	200,827
1,029.00	38,117	1	36,817	237,644
1,030.00	40,803	1	39,460	277,104
1,031.00	43,526	1	42,165	319,268
1,032.00	46,317	1	44,922	364,190
1,033.00	49,205	1	47,761	411,951
1,034.00	52,204	1	50,705	462,655
1,035.00	55,324	1	53,764	516,419
1,036.00	58,559	1	56,942	573,361
1,037.00	61,922	1	60,241	633,601
1,038.00	65,146	1	63,534	697,135

NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

BATCH DETENTION POND PLAN



05/02/2024

SHEET

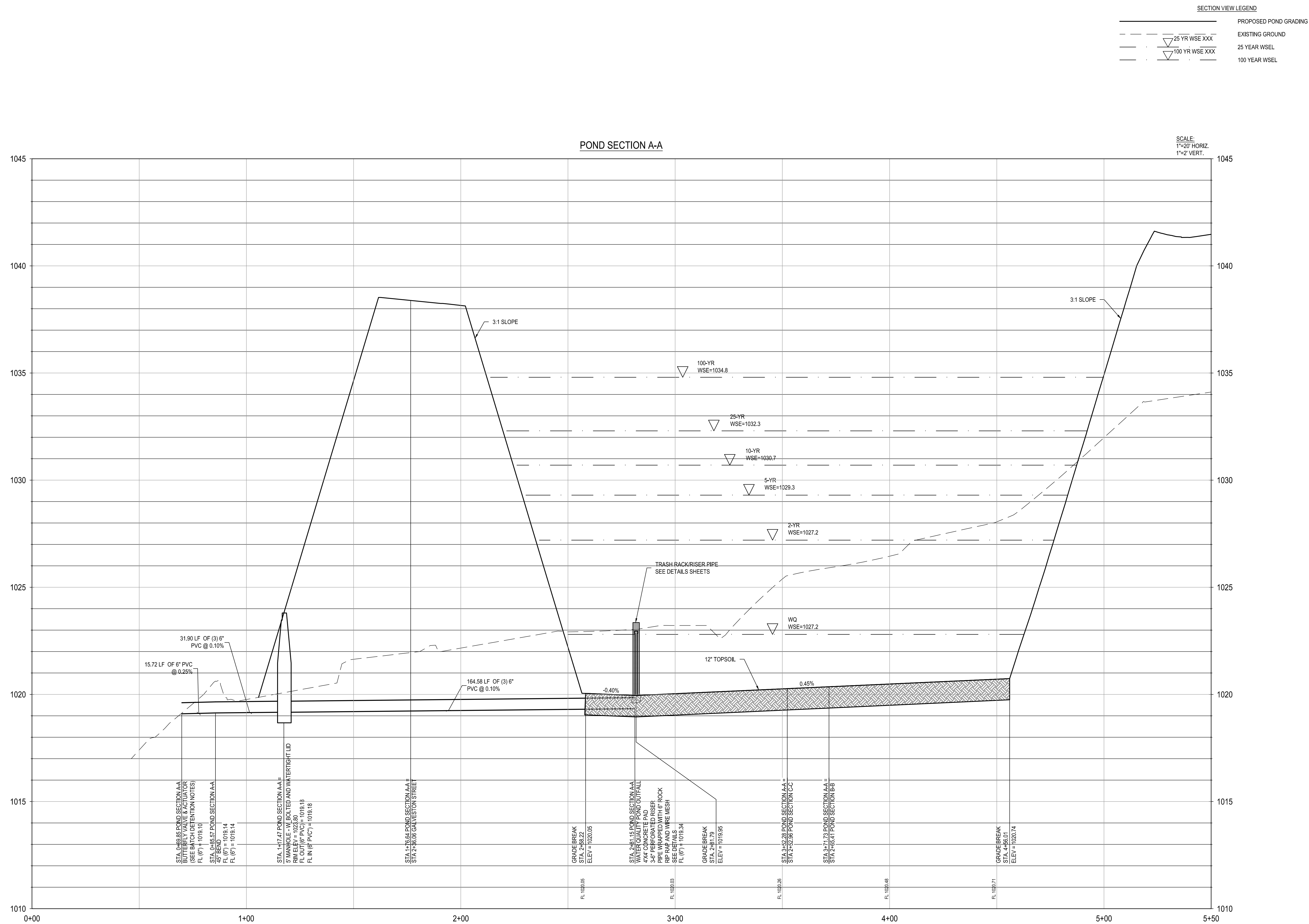
15

DESIGNED BY: AG
REVIEWED BY: TR
DRAWN BY: RA

DATE
REV
DESCRIPTION



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SAN ANTONIO, TX 78216
TEL: 214-581-3800 • www.bgeinc.com
TX PE Registration No. F-1046



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WIMBERLEY RIDGE

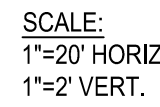
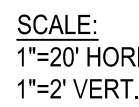
BATCH DETENTION POND SECTIONS (SHEET
1 OF 3)



05/02/202

SHEE

16



PROPOSED POND GRADING
EXISTING GROUND
25 YEAR WSEL
100 YEAR WSEL



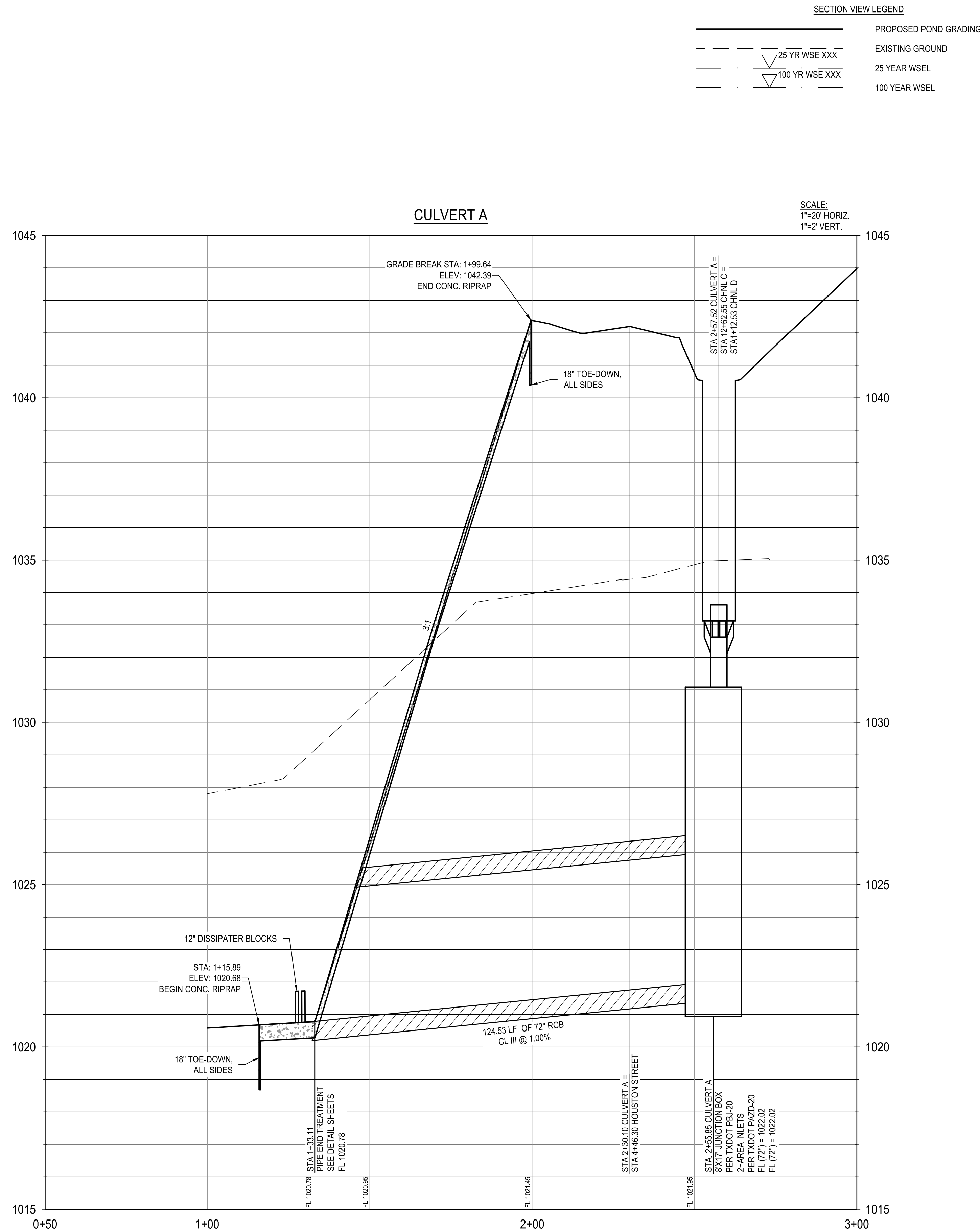
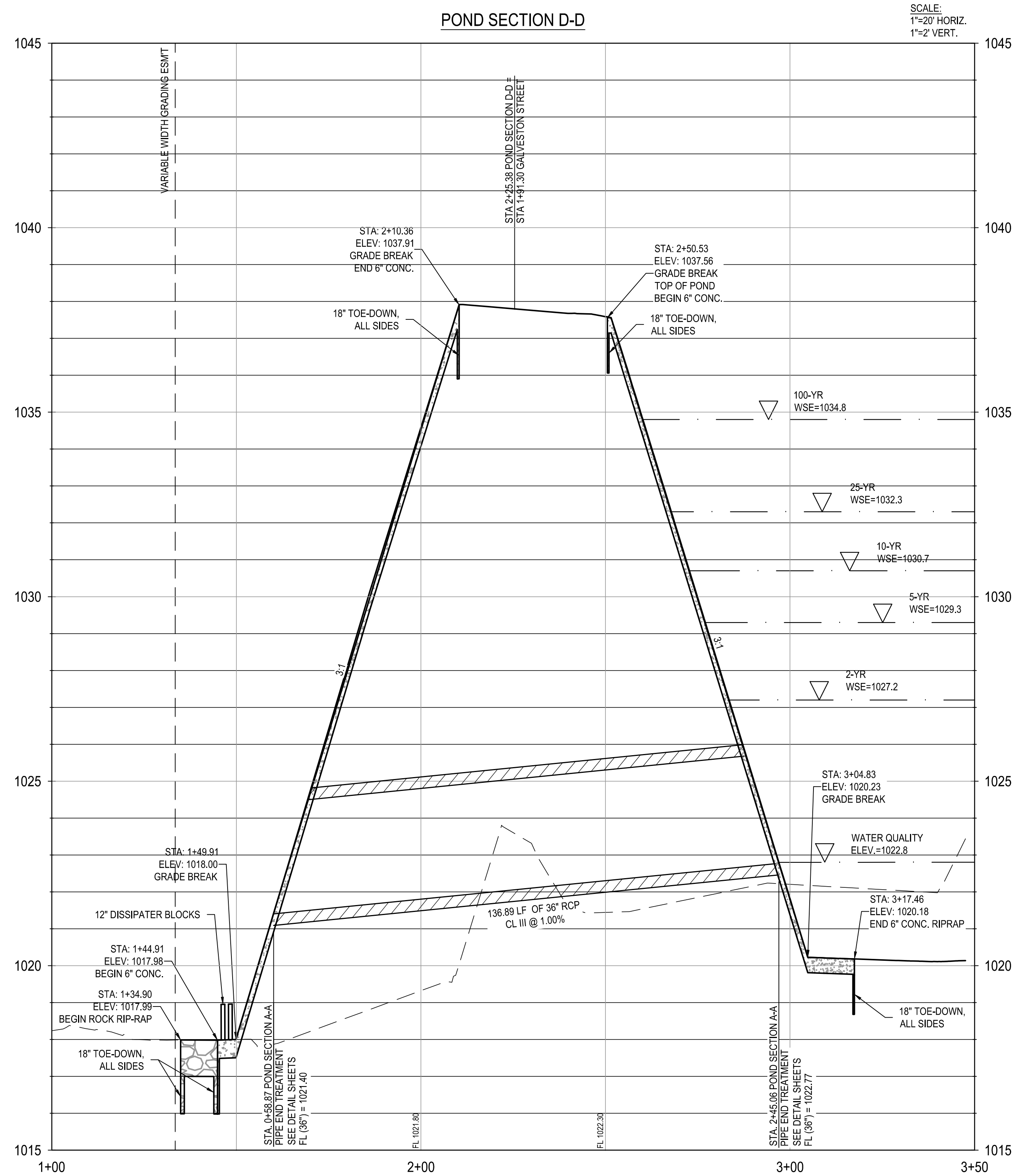
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BATCH DETENTION POND SECTIONS
(SHEET 2 OF 3)



05/02/2024
SHEET
17

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SECTION VIEW LEGEND			
	PROPOSED POND GRADING		EXISTING GROUND
	25 YR WSE XXX		25 YEAR WSEL
	100 YR WSE XXX		100 YEAR WSEL

NOT FOR CONSTRUCTION

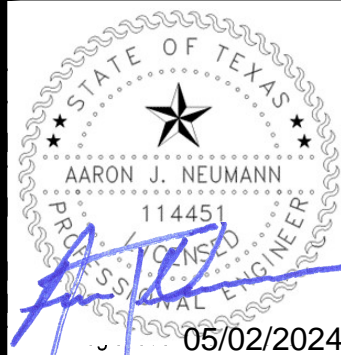
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APR	REV	
	REV	
	REV	
	REV	
	REV	

DESIGNED BY: AG
REVIEWED BY: TR
DRAWN BY: RA



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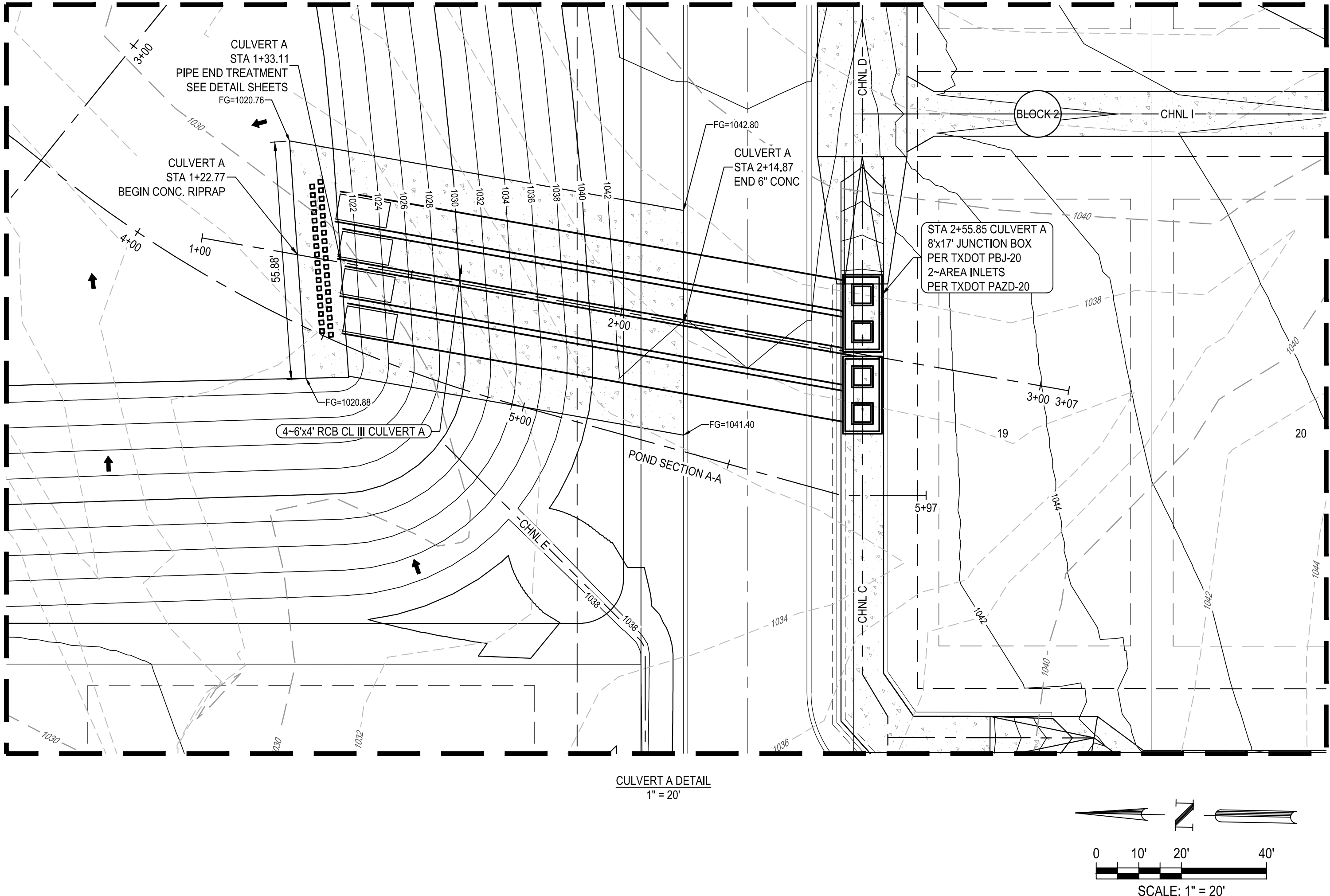
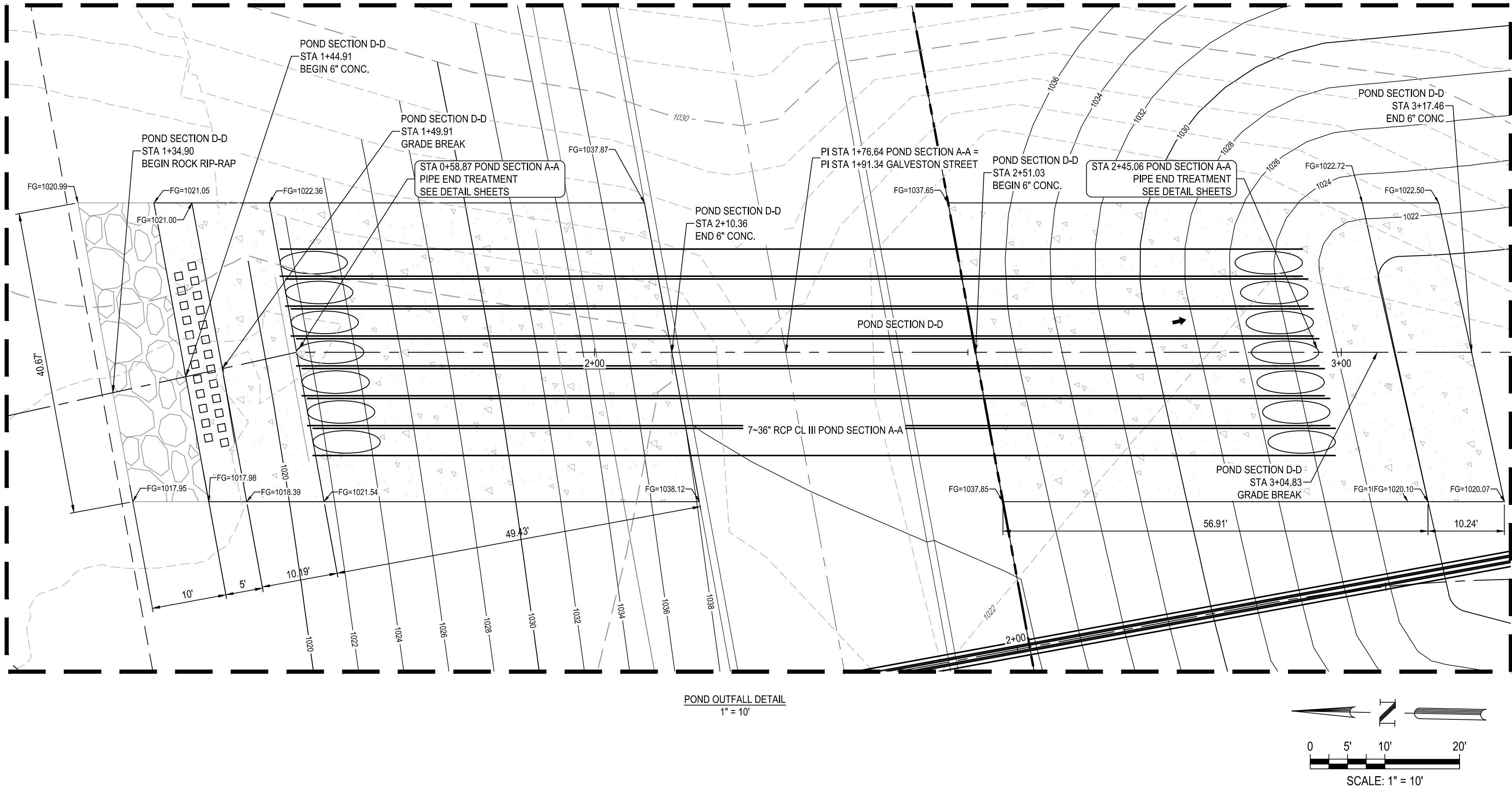
WIMBERLEY RIDGE
BATCH DETENTION POND SECTIONS
(SHEET 3 OF 3)



05/02/2024

SHEET

18



LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED STORM DRAIN LINE
- PROPOSED FORCEMAIN LINE
- PROPOSED WATER LINE
- DIRECTION OF FLOW

NOT FOR CONSTRUCTION



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WIMBERLEY RIDGE

BATCH DETENTION POND DETAILS
(SHEET 1 OF 2)



05/02/2024

SHEET

19

BATCH DETENTION NOTES:

1. OVERVIEW: THE BASIN IS TYPICALLY FILLED QUICKLY BY STORMWATER CONVEYED THROUGH A STORM DRAIN, MAKING THE INFLOW TIME RELATIVELY SHORT. THE RESIDENCE TIME OF THE STORMWATER IS 12 HOURS AND IS CONTROLLED BY THE CONTROL VALVE (NORMALLY SHUT OFF) AND ACTUATOR INSTALLED ON THE OUTLET STRUCTURE. THE CONTROL VALVE OPENS ONCE THE DESIRED RESIDENCE TIME IS ACHIEVED AFTER A STORM EVENT. THE TREATED WATER IS RELEASED SLOWLY OVER A TIME OF 24 TO 48 HOURS.
2. VALVE ACTUATOR: THE VALVE/ACTUATOR ASSEMBLY CONSISTS OF A BUTTERFLY VALVE WITH A SMALL 12VDC ACTUATOR. THE VALVE IS A QUARTER TURN VALVE. THE ACTUATOR OPERATES THE VALVE BETWEEN THE FULL OPEN AND FULL CLOSED POSITIONS. A MECHANICAL HAND CLANK ALLOWS A PHYSICAL OVERRIDE OF THE VALVE SYSTEM.
3. THE VALVE IS A KEYSTONE 6-INCH(100MM) BUTTERFLY VALVE MATED WITH A EPI-6 12VDC ACTUATOR. THE EPI-6 ACTUATOR REQUIRES AN OPEN OR CLOSE SIGNAL OF 10 SECONDS. THE ACTUATOR HAS LIMIT SWITCHES THAT DETECT END OF TRAVEL AND SHUT OFF THE INCOMING OPEN OR CLOSE SIGNAL TO THE ACTUATOR ONCE THE VALVES REACHES THE FULL OPEN OR CLOSED POSITION. OVER TORQUE SENSORS WILL SHUT DOWN THE ACTUATOR IN THE EVENT OF AN OVER TORQUE SITUATION.
4. CONTROLLER SYSTEM SPECIFICATIONS:
 - 4.1. POWER - THE CONTROLLER SHALL BE POWERED BY A SHIELD-CONTAINED RENEWABLE POWER SOURCE (SUCH AS SOLAR POWER) IF ELECTRICAL POWER IS NOT AVAILABLE. A SINGLE SUPPLY VOLTAGE FOR ALL COMPONENTS IS DESIRABLE.
 - 4.2. PROGRAMMABILITY - THE CONTROLLED SHALL BE PROGRAMMABLE. IT SHALL BE POSSIBLE TO UPDATE PROGRAMS IN THE FIELD. THE DETENTION TIME AND DRAIN-DOWN TIME SHALL BE ADJUSTABLE IN HOURS FROM 0 HOURS TO 72 HOURS.
 - 4.3. EVENT SENSING - THE CONTROLLER SHALL BE ABLE TO SENSE THE BEGINNING OF A STORM (WATER FILLING THE BASIN), AND THE END OF A STORM (WATER HAS DRAINED FROM THE BASIN).
 - 4.4. ENVIRONMENT - THE CONTROLLER SHALL OPERATE IN TEMPERATURES FROM 0 DEGREES CELSIUS TO 55 DEGREES CELSIUS, IN HUMIDITY FROM 10% TO 90% (NON-CONDENSING). THE CONTROLLER SHALL OPERATE DURING PERIODS OF RAINFALL.
 - 4.5. SAFETY/SECURITY - THE SYSTEM COMPONENTS SHALL BE LOCKED IN ENCLOSURE TO PREVENT ACCIDENTAL CONTACT THAT COULD COMPROMISE THE FUNCTION OF THE APPARATUS OR CAUSE INJURY.
 - 4.6. MAINTENANCE - THE CONTROLLER SHALL REQUIRE MINIMAL PERIODIC MAINTENANCE TO CONTROL THE PROGRAM SHALL BE FIELD UPGRADABLE. THE ABILITY TO MANUALLY OPERATE THE VALVE SHALL BE PROVIDED.
 - 4.7. RELIABILITY - 40,000 HOURS(4.6 YEARS) OR GREATER.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESIGN OF SENSOR, AUTOMATIC VALVE, CONTROLLER, ETC. TO ENGINEER FOR REVIEW AND APPROVAL.



Texas Commission on Environmental Quality

UNIT 1 (21.26 AC.)			
SIDEWALK SF	0		
STREET SF	107864.36		
LOTS	56	3500 SF PER LOT	196000
MISC.	0		
TOTAL	303864.36	<SF AC >	6.08

Project Name:	Wimberly Ridge
Date Prepared:	9/18/2023

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.

Calculations from RG-348

Pages 3-27 to 3-30

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

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

A_N = Net increase in impervious area for the project
 P = Average annual precipitation, inches

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

	County =	Hays	
	Total project area included in plan *	21.26	acres
	Predevelopment impervious area within the limits of the plan *	0.00	acres
	Total post-development impervious area within the limits of the plan *	6.98	acres
	Total post-development impervious cover fraction *	0.33	
	P =	33	inches

L_M TOTAL PROJECT =	6265	lbs
-----------------------	------	-----

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

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

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

Drainage Basin/Outfall Area No. =	1
-----------------------------------	---

Total drainage basin/outfall area =	21.26	acres
Predevelopment impervious area within drainage basin/outfall area =	0.00	acres
Post-development impervious area within drainage basin/outfall area =	6.98	acres
Post-development impervious fraction within drainage basin/outfall area =	0.33	
L_M THIS BASIN =	6265	lbs

3. Indicate the proposed BMP Code for this basin.

Proposed BMP =	Batch Detention	
Removal efficiency =	91	percent

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

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

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

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

$A_C =$	21.26	acr
$A_I =$	6.98	acr
$A_P =$	14.28	acr
$L_R =$	7484	lbs

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

Desired L_M THIS BASIN = 6350 lbs

F =	0.85
-----	------

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

Calculations from RG-348

Pages 3-34 to 3-36

Rainfall Depth =	1.32	inches
Post Development Runoff Coefficient =	0.27	
On-site Water Quality Volume =	27744	cubic feet

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

Off-site area draining to BMP =	132.32	acres
Off-site Impervious cover draining to BMP =	0.00	acres
Impervious fraction of off-site area =	0.00	
Off-site Runoff Coefficient =	0.02	
Off-site Water Quality Volume =	12680	cubic feet

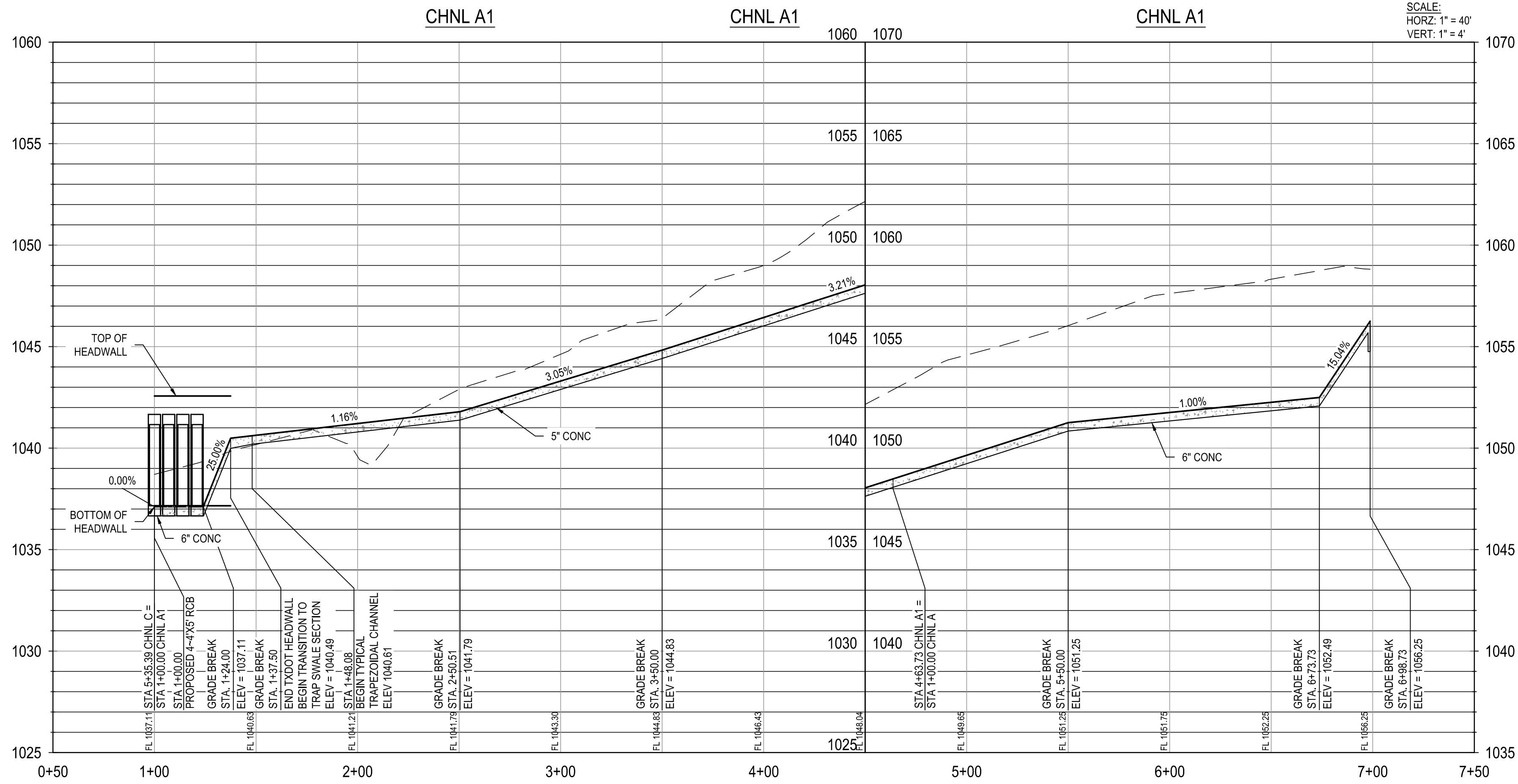
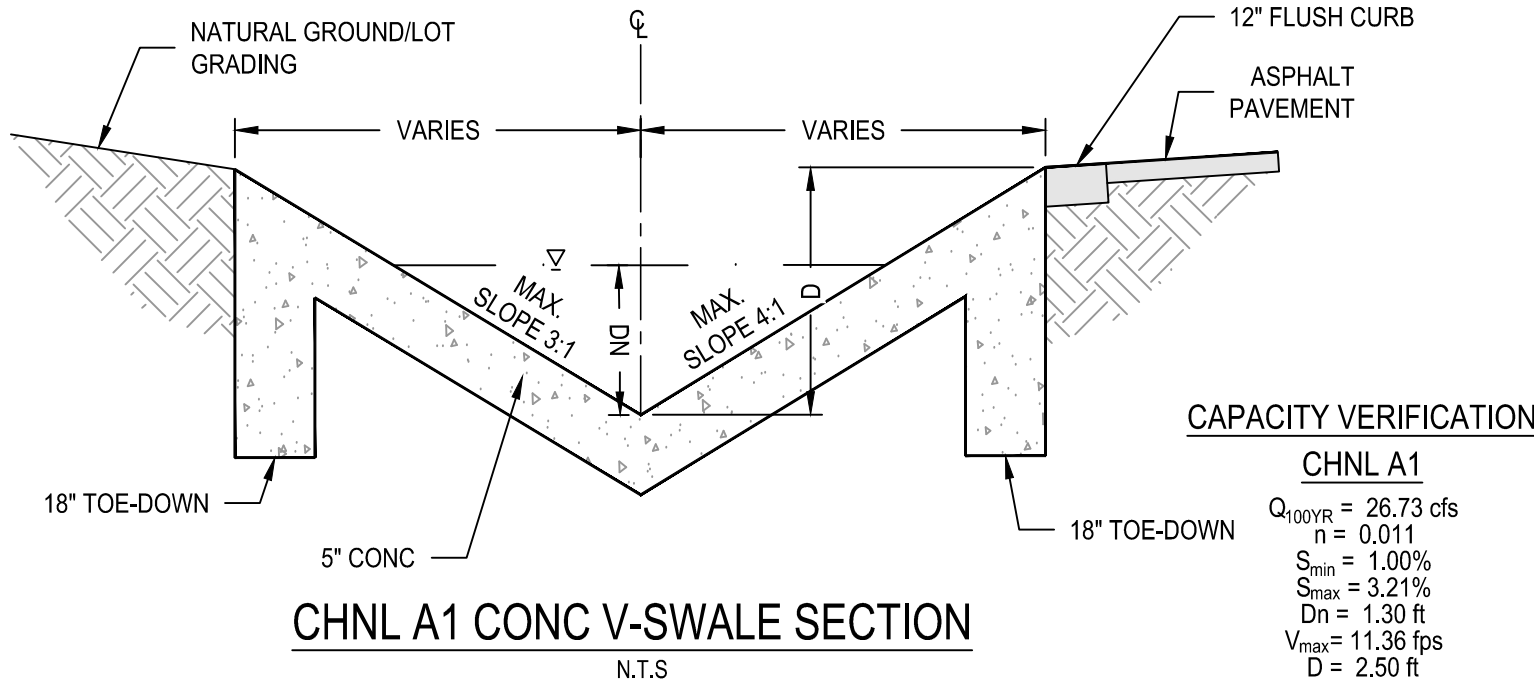
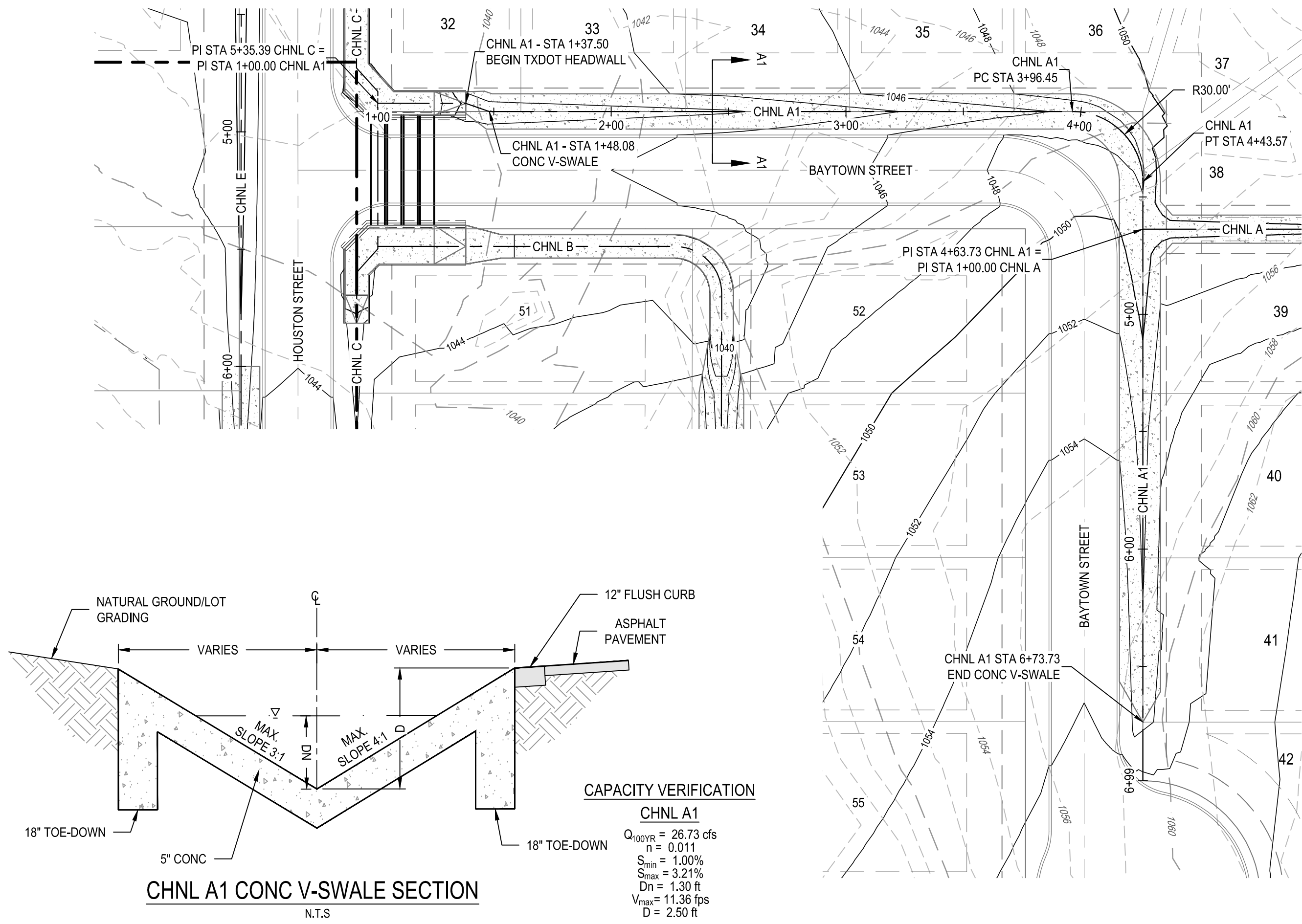
Storage for Sediment =	8085	
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Total Capture Volume (required water quality volume(s) x 1.20) =	48510	cubic feet
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The following sections are used to calculate the required water quality volume(s) for the selected BMP. The values for BMP Types not selected in cell C45 will show NA.



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0 20' 40' 80'
SCALE: 1" = 40'

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED WASTEWATER FORCEMAIN
- PROPOSED WATER LINE
- PROPOSED WASTEWATER SERVICES
- PROPOSED WATER SERVICES
- DIRECTION OF FLOW
- UTILITY CROSSING
- PROPOSED SWALE FLOWLINE

PROFILE LEGEND

- PROPOSED STORM PIPE
- 25 YEAR HGL
- 100 YEAR HGL
- PROPOSED GROUND
- EXISTING GROUND

* ALL WATER/WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

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WIMBERLEY RIDGE

CHANNEL A1 PLAN AND PROFILE



05/02/2024

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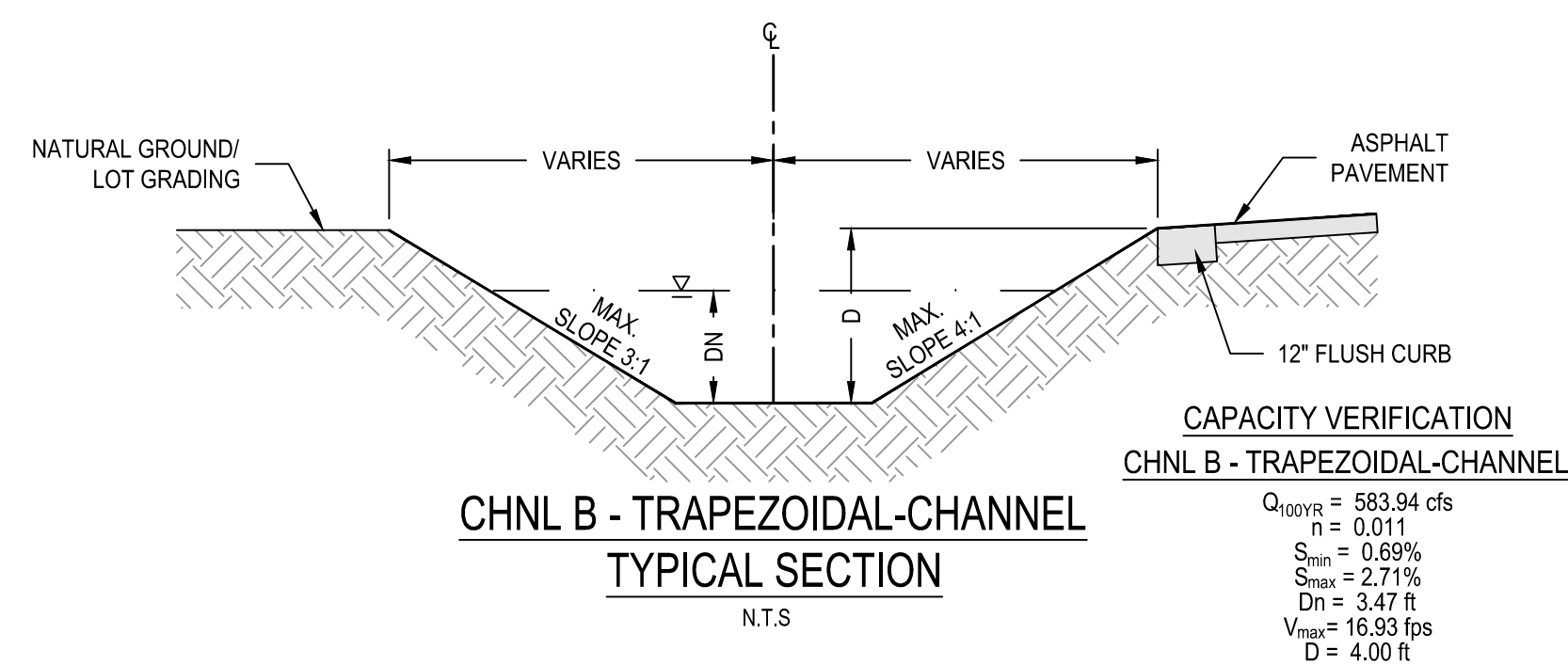
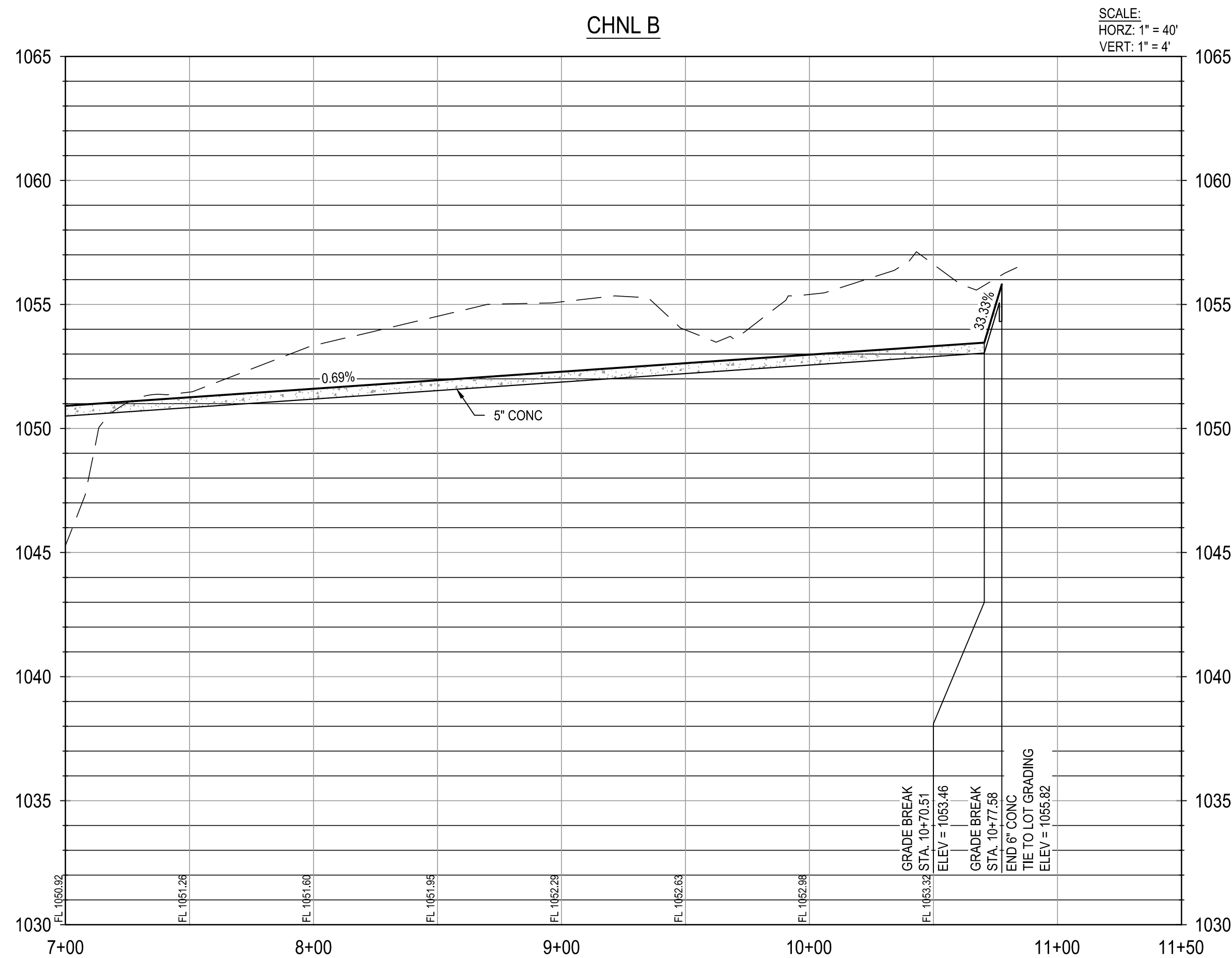
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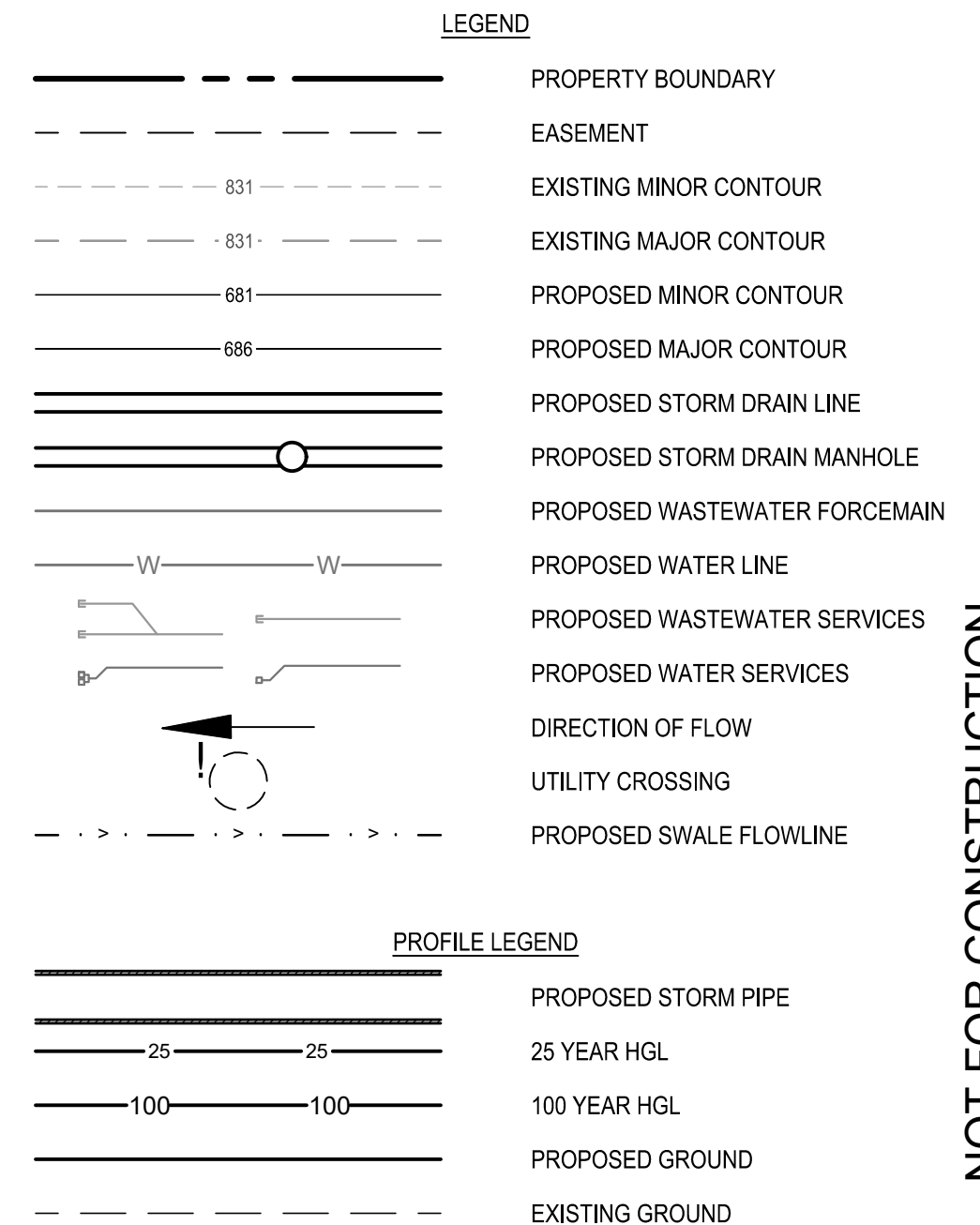
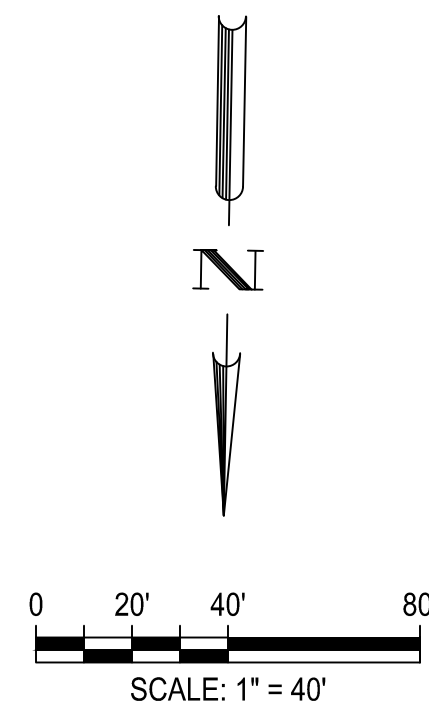
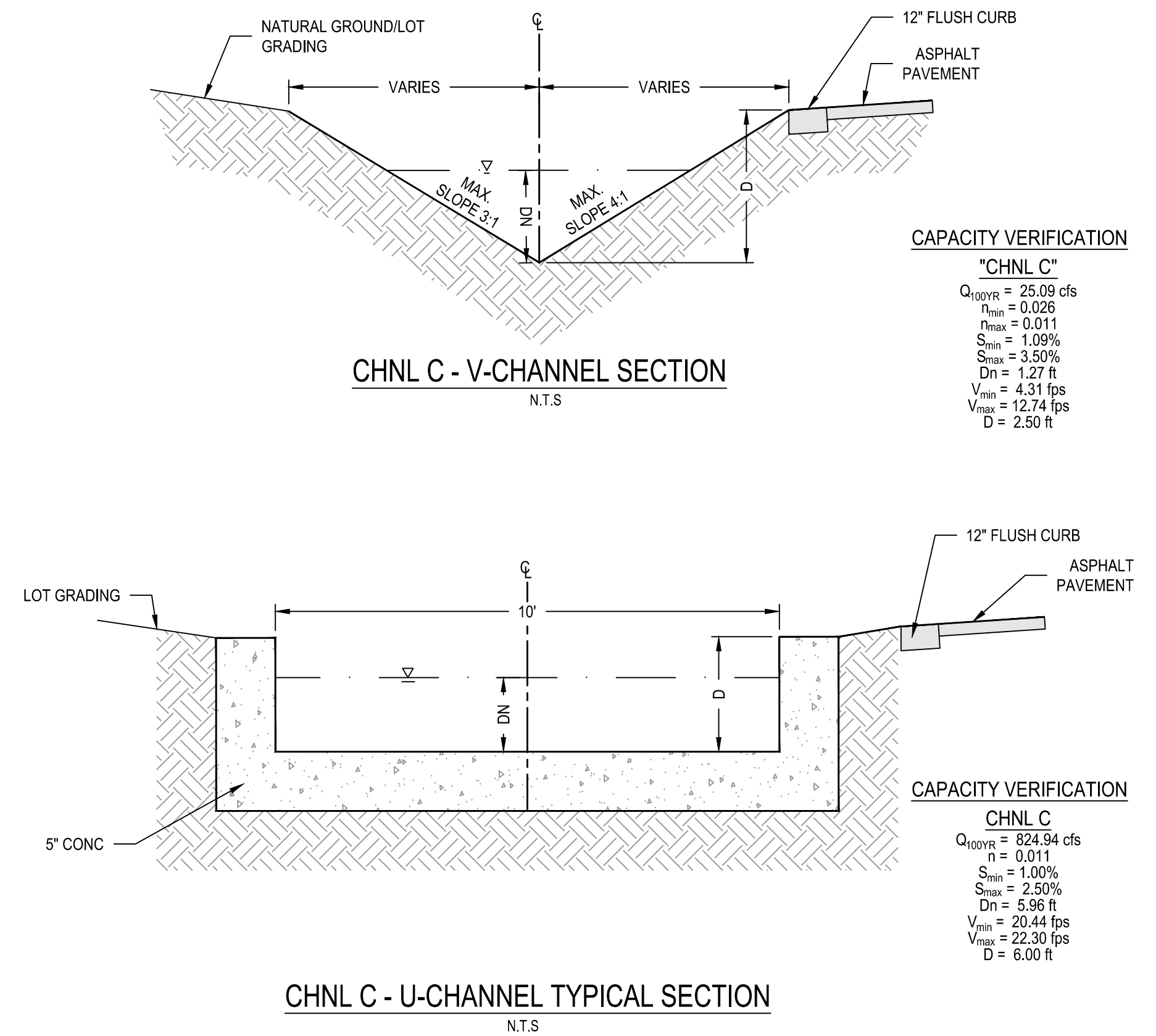
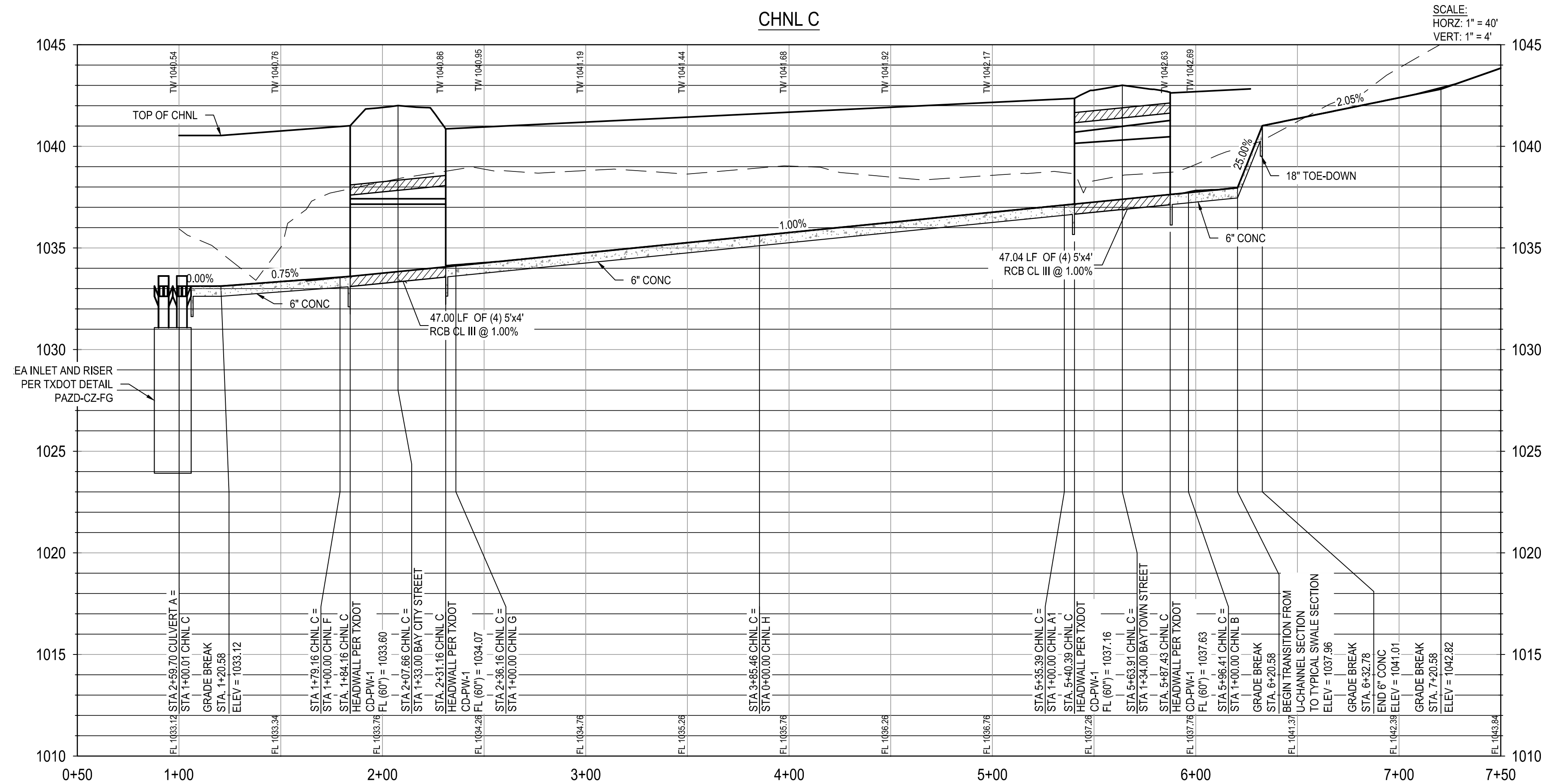
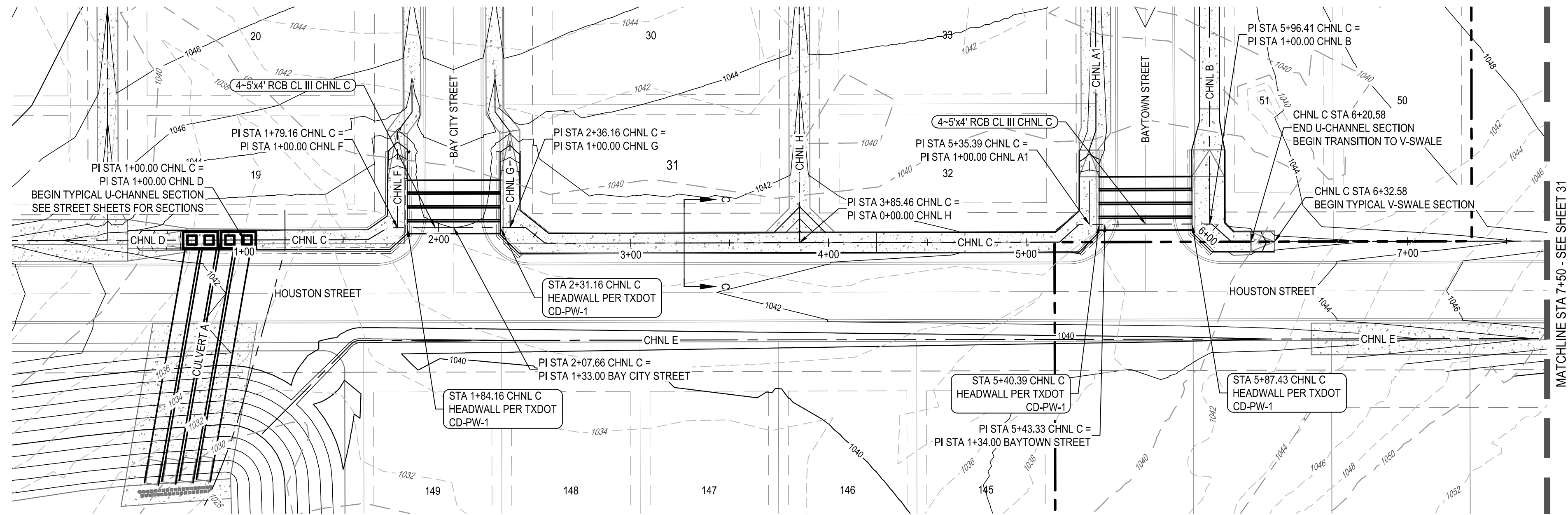


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DATE	REV	DESCRIPTION
APR		



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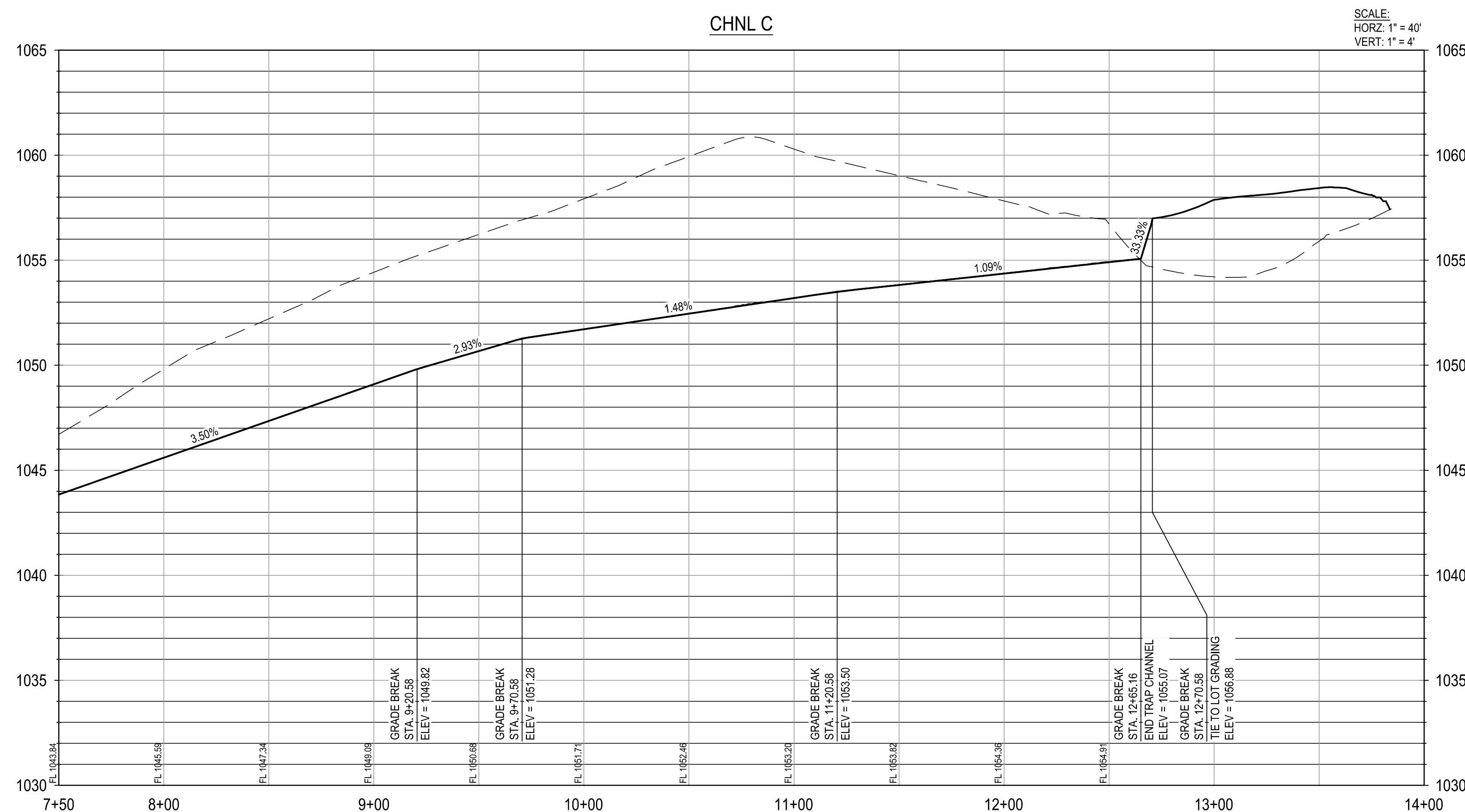
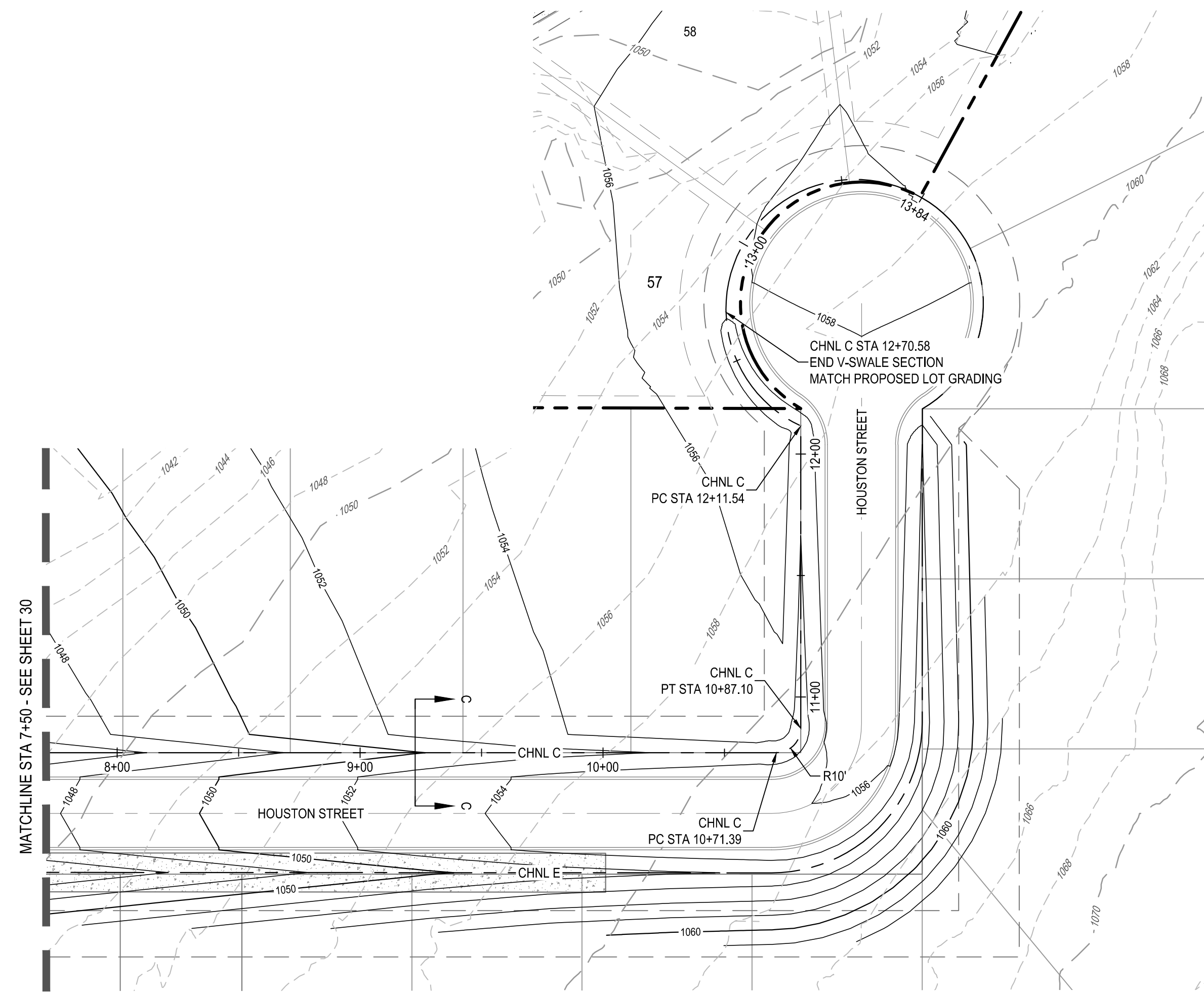
WIMBERLEY RIDGE

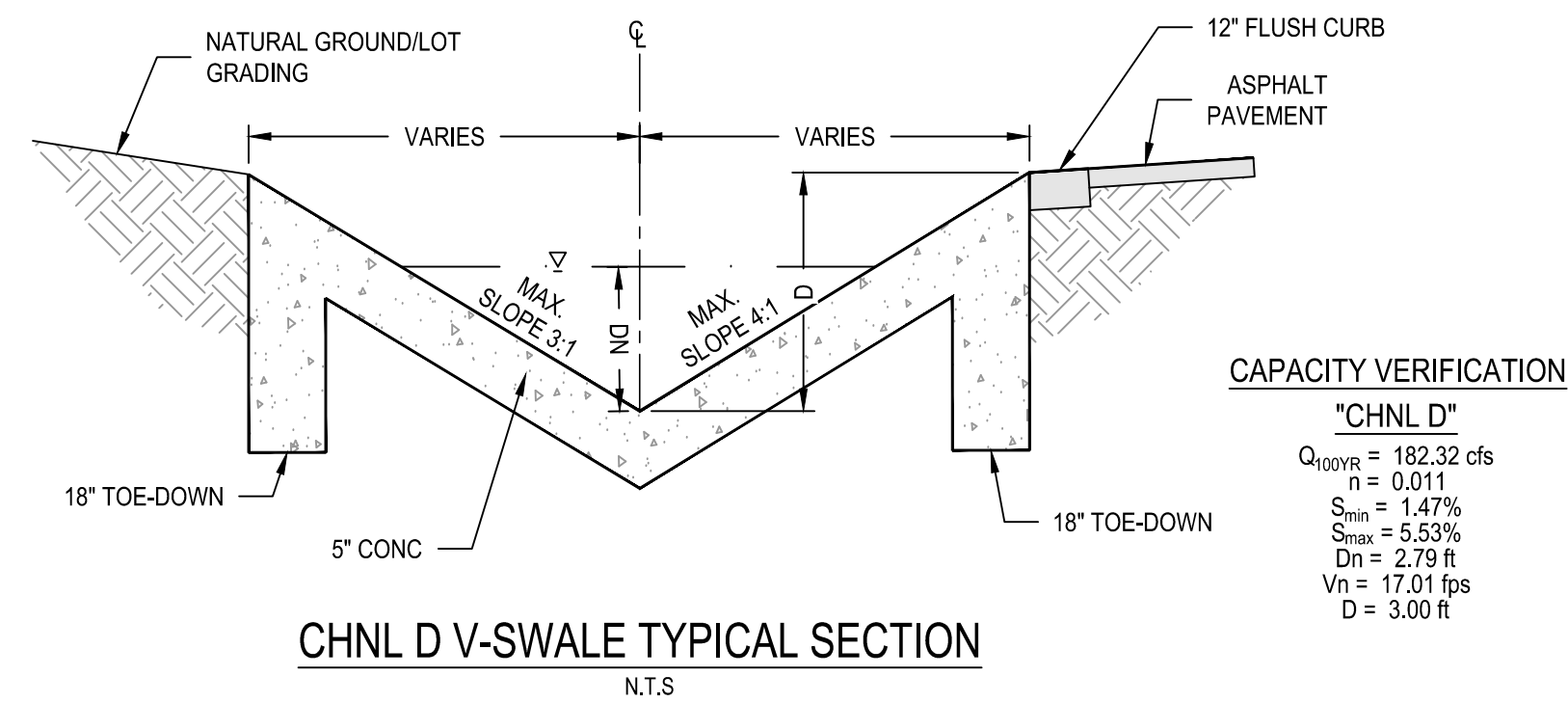
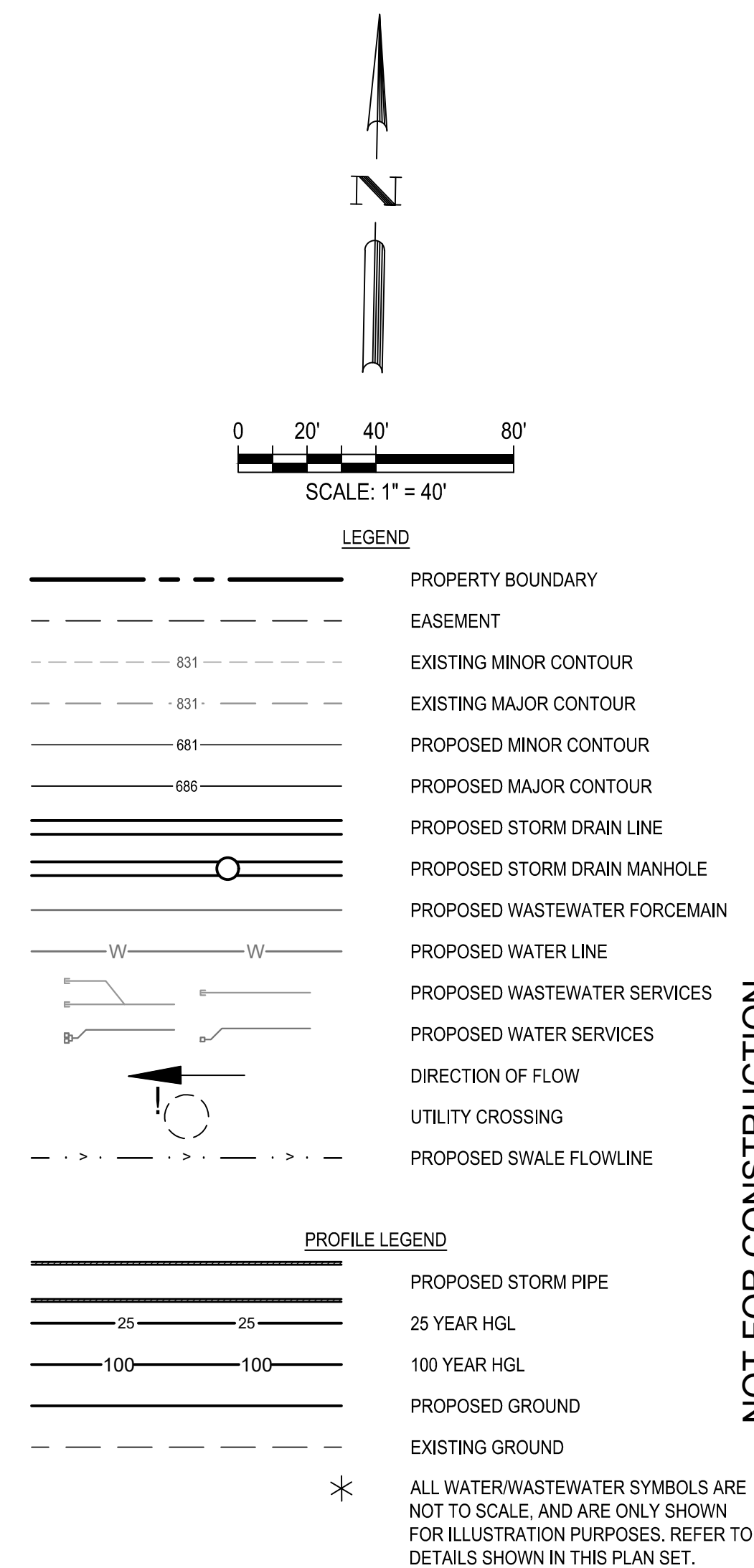
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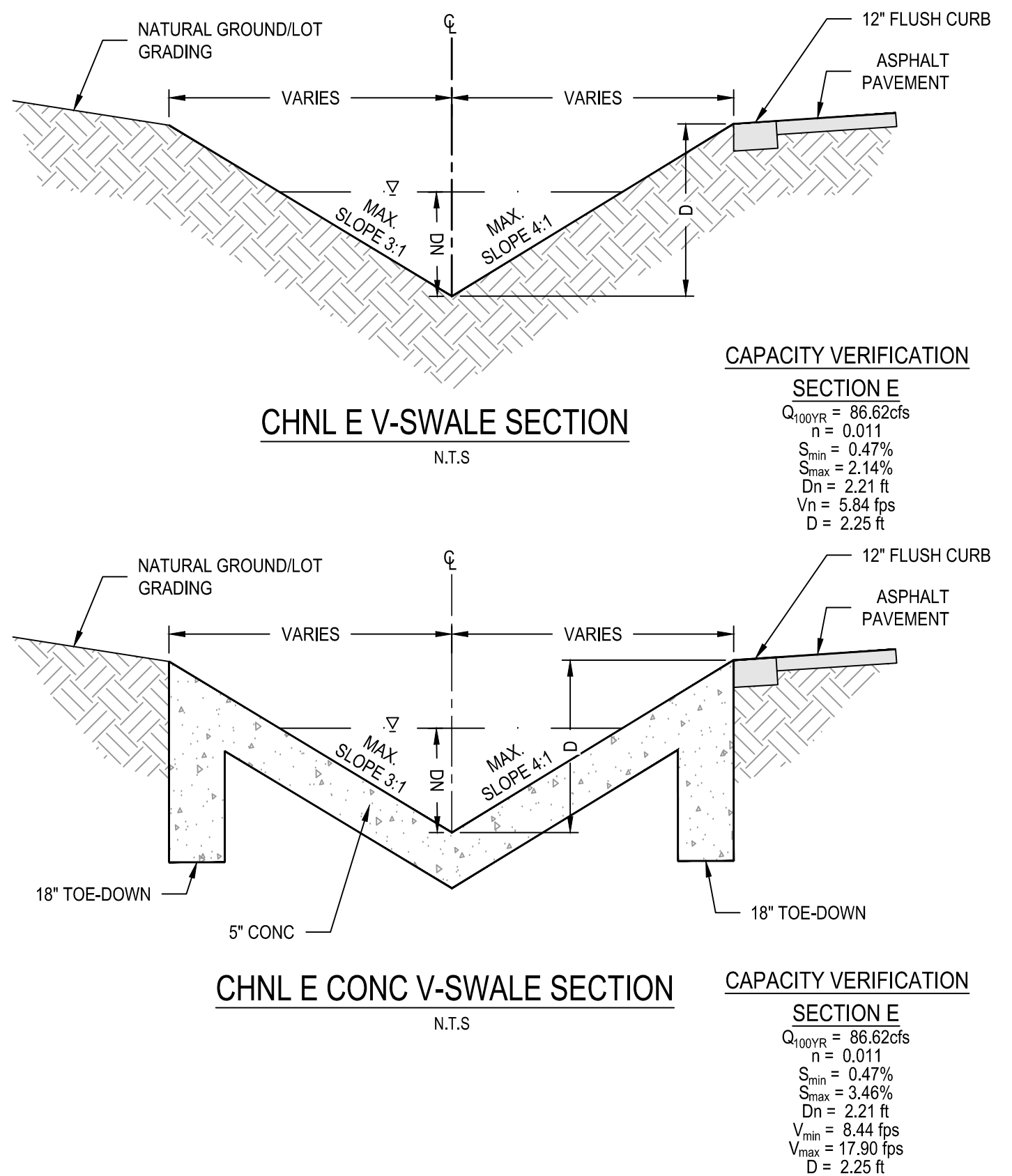
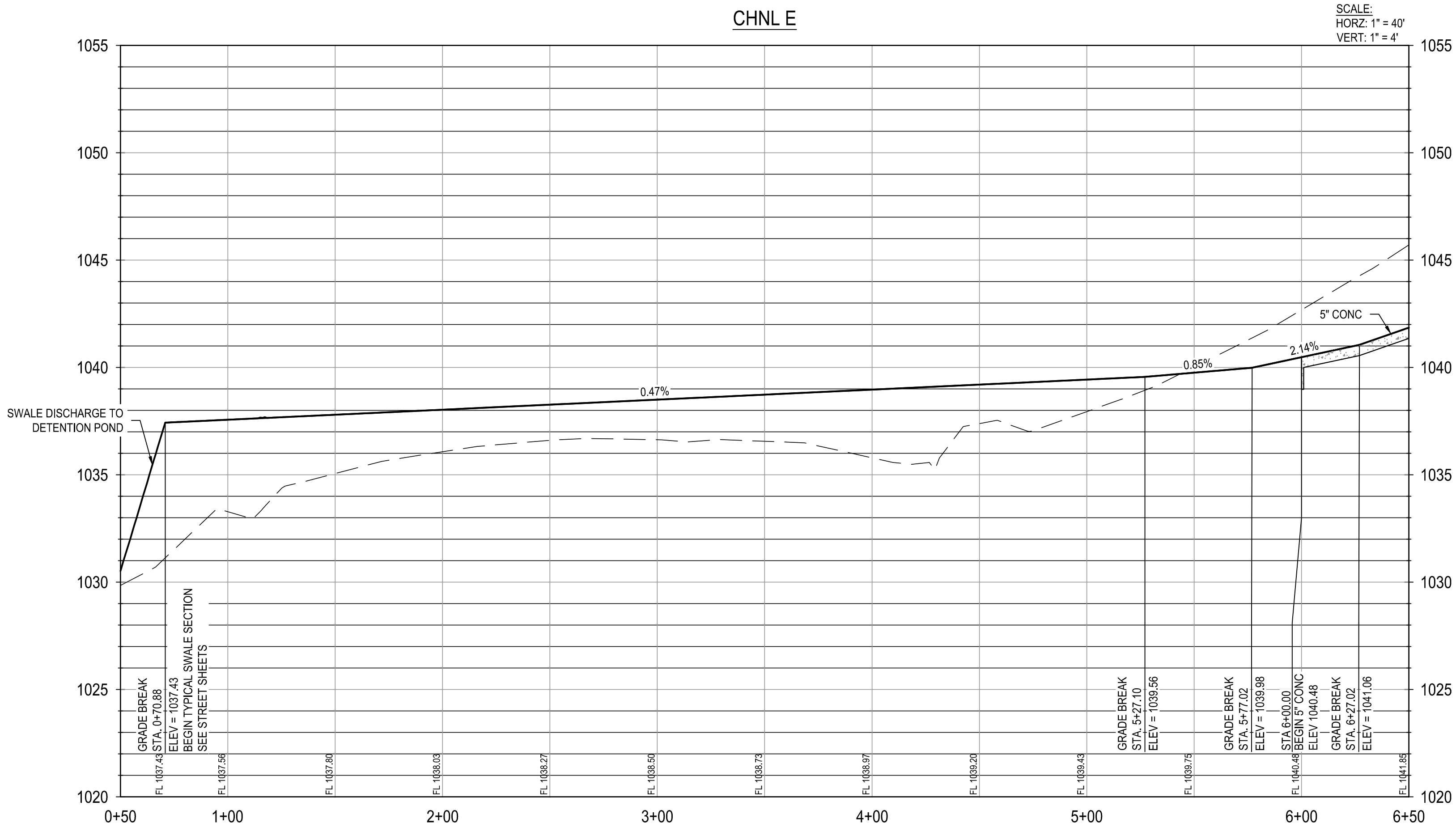
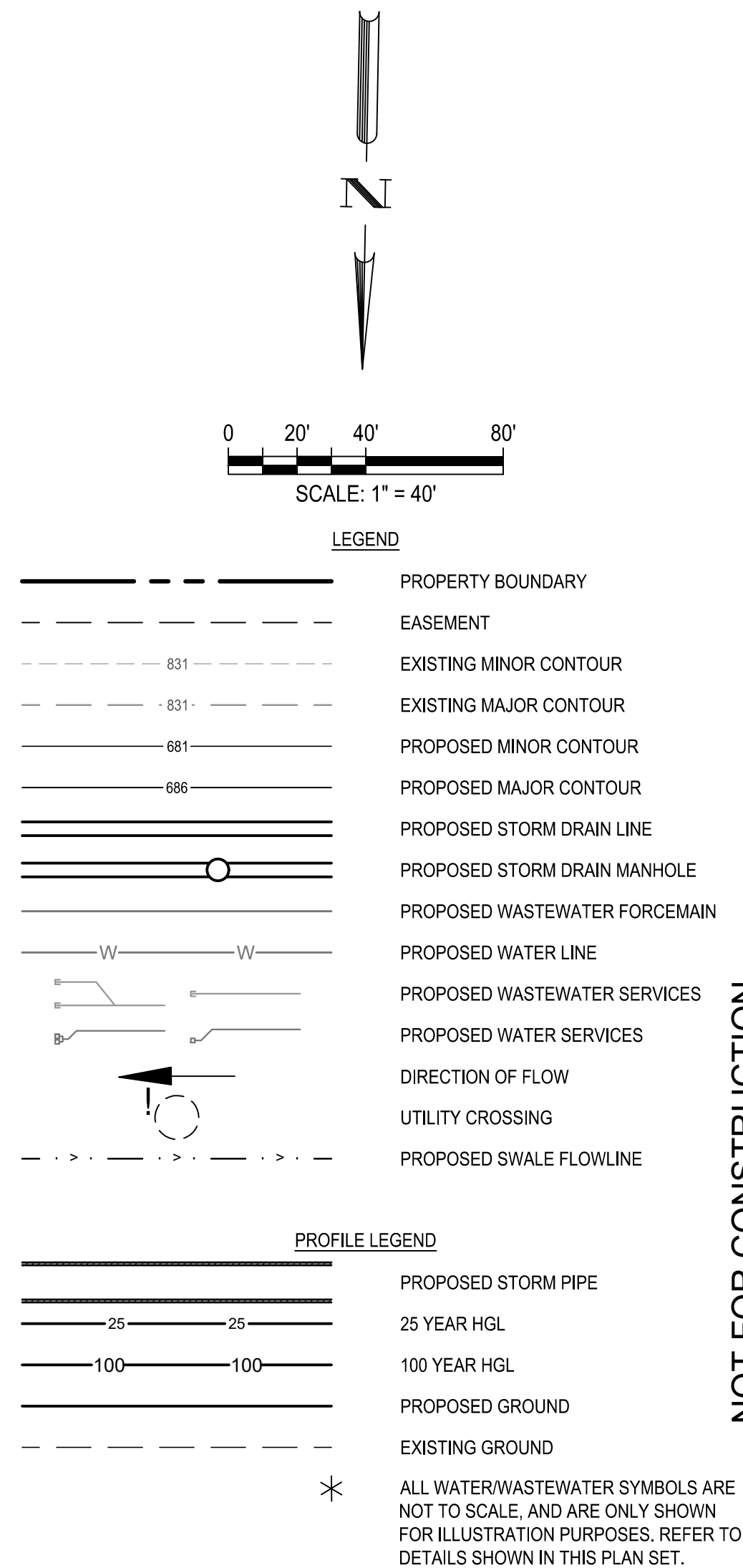
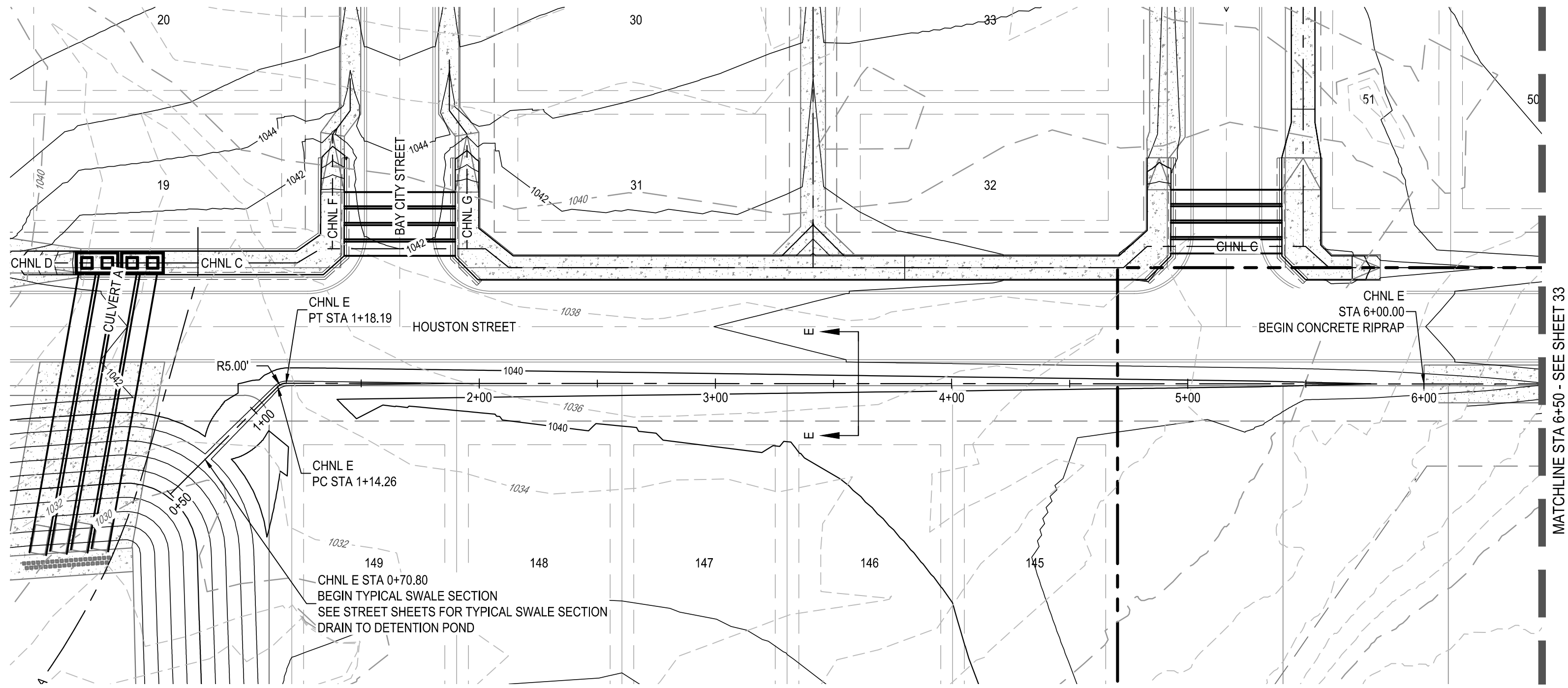
STA 1+00 TO 7+50

STATE OF TEXAS
AARON J. NEUMANN
114451
Professional Engineer
05/02/2024

SHEET
30

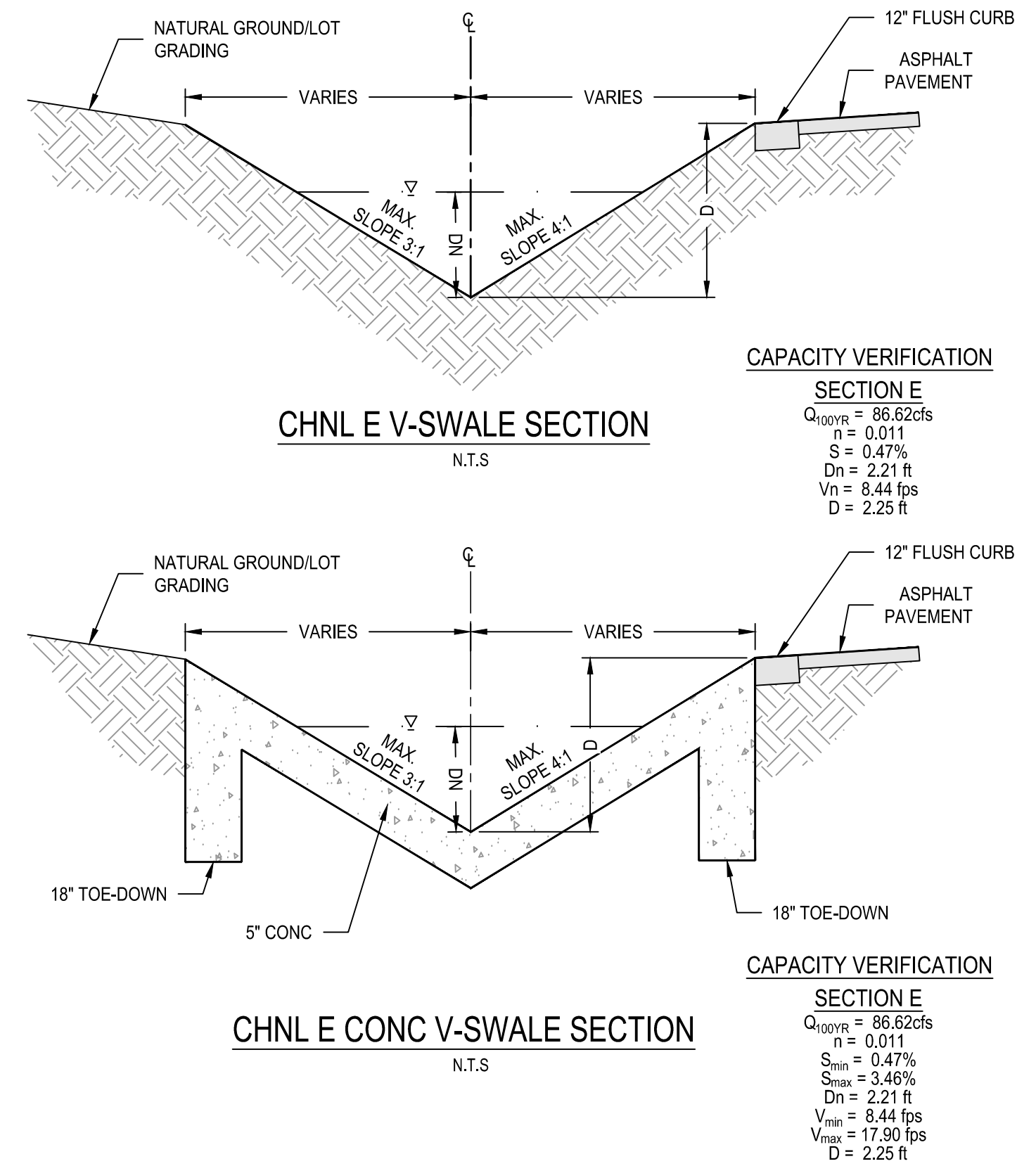
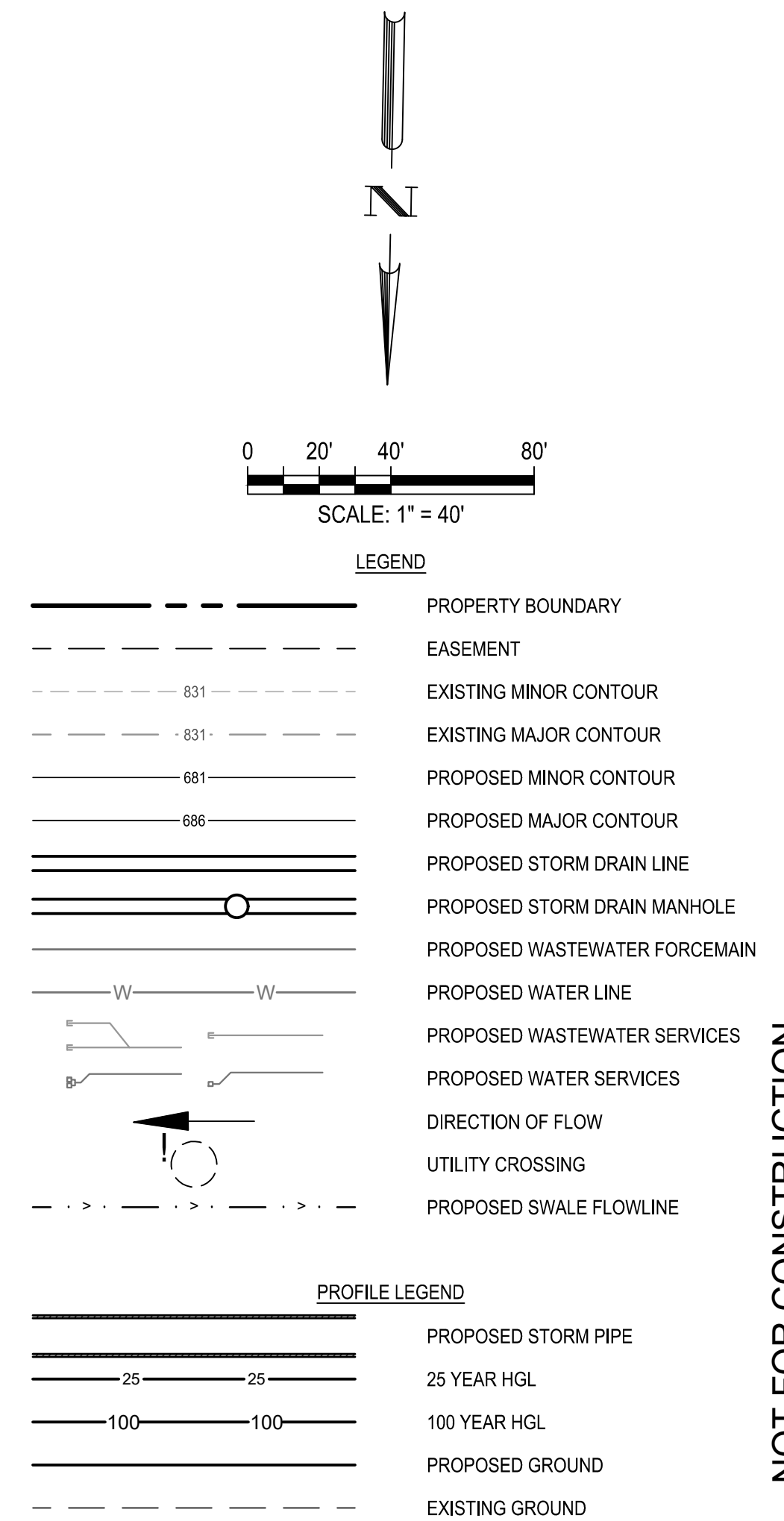
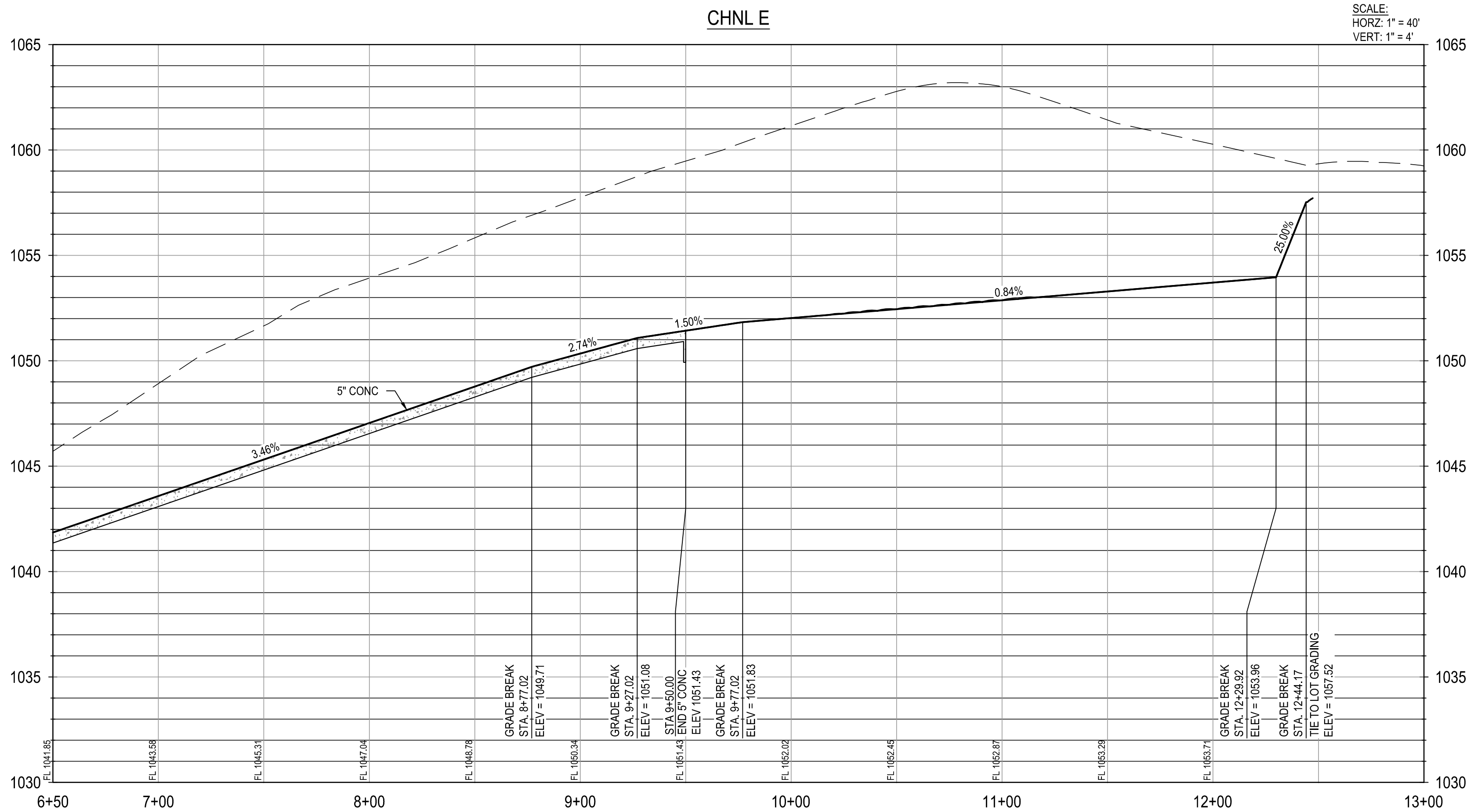
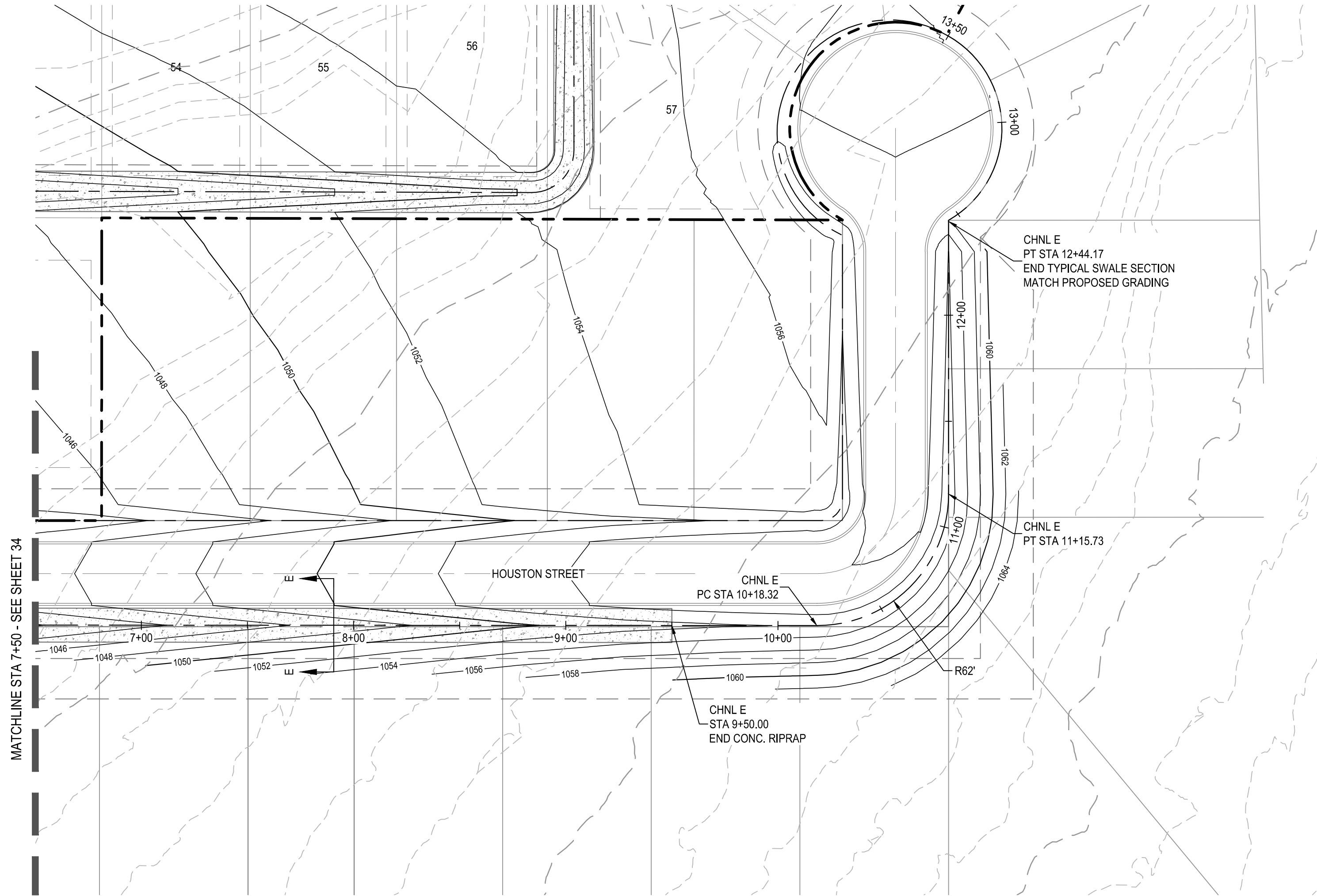






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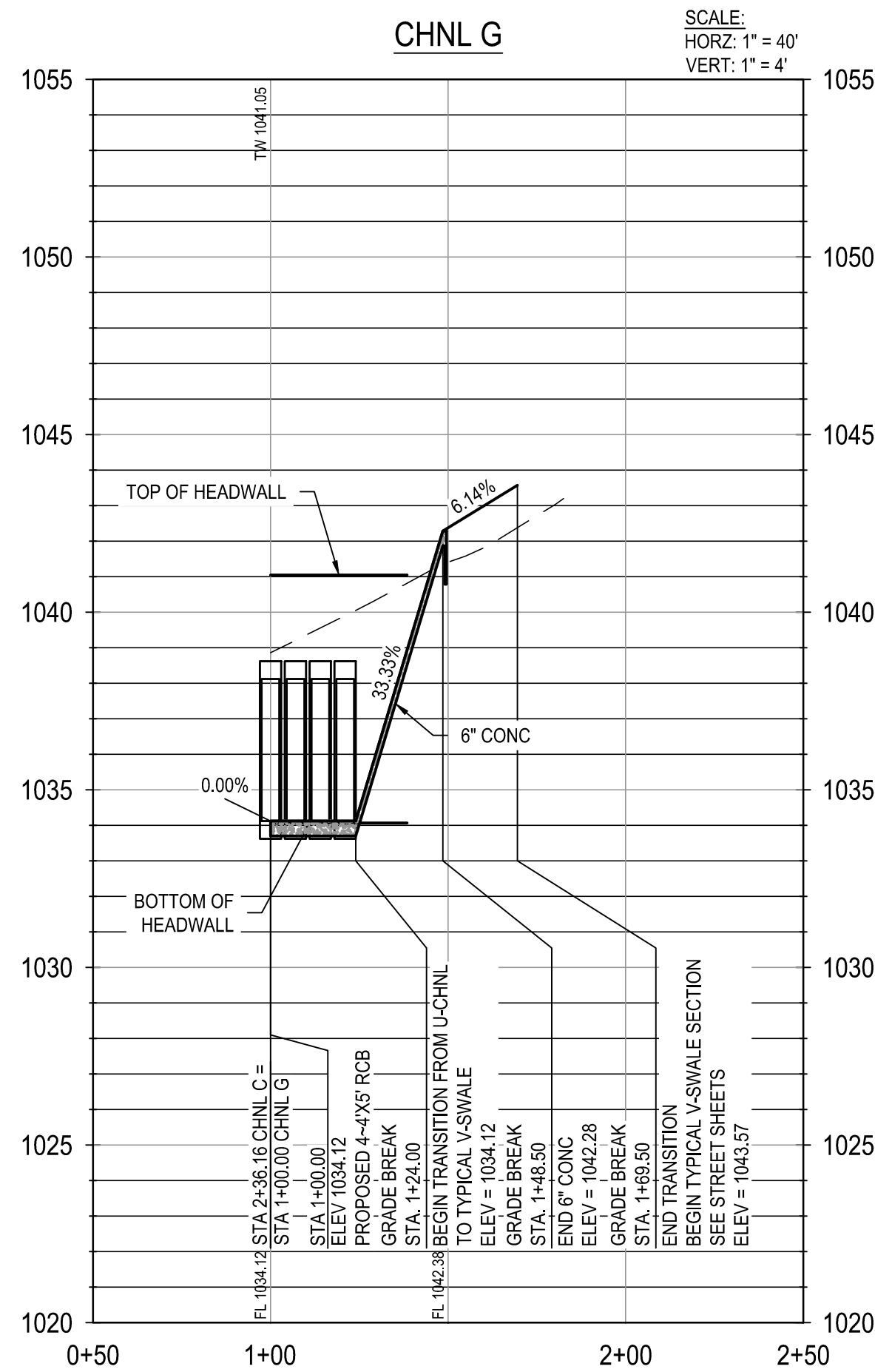
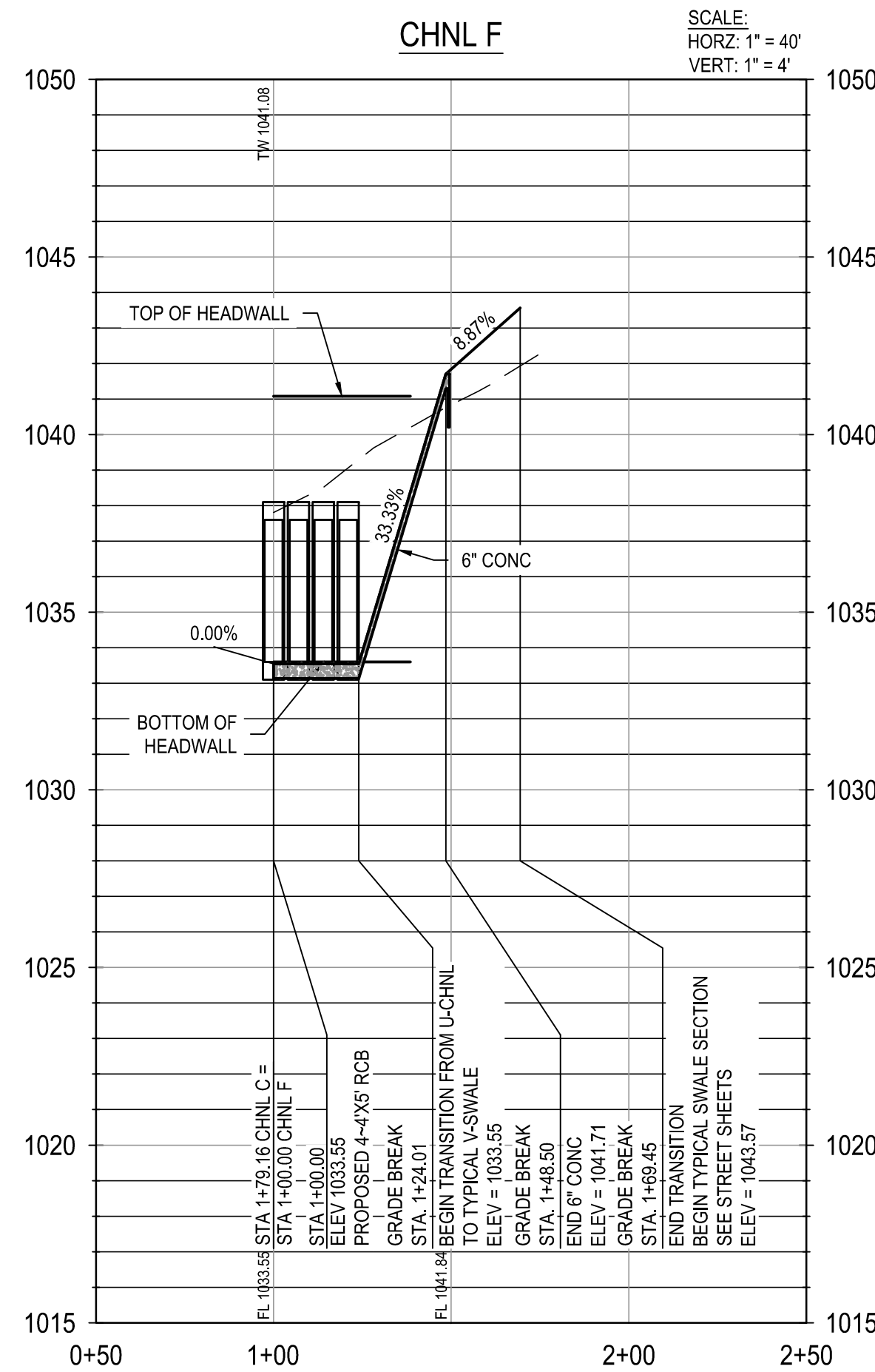
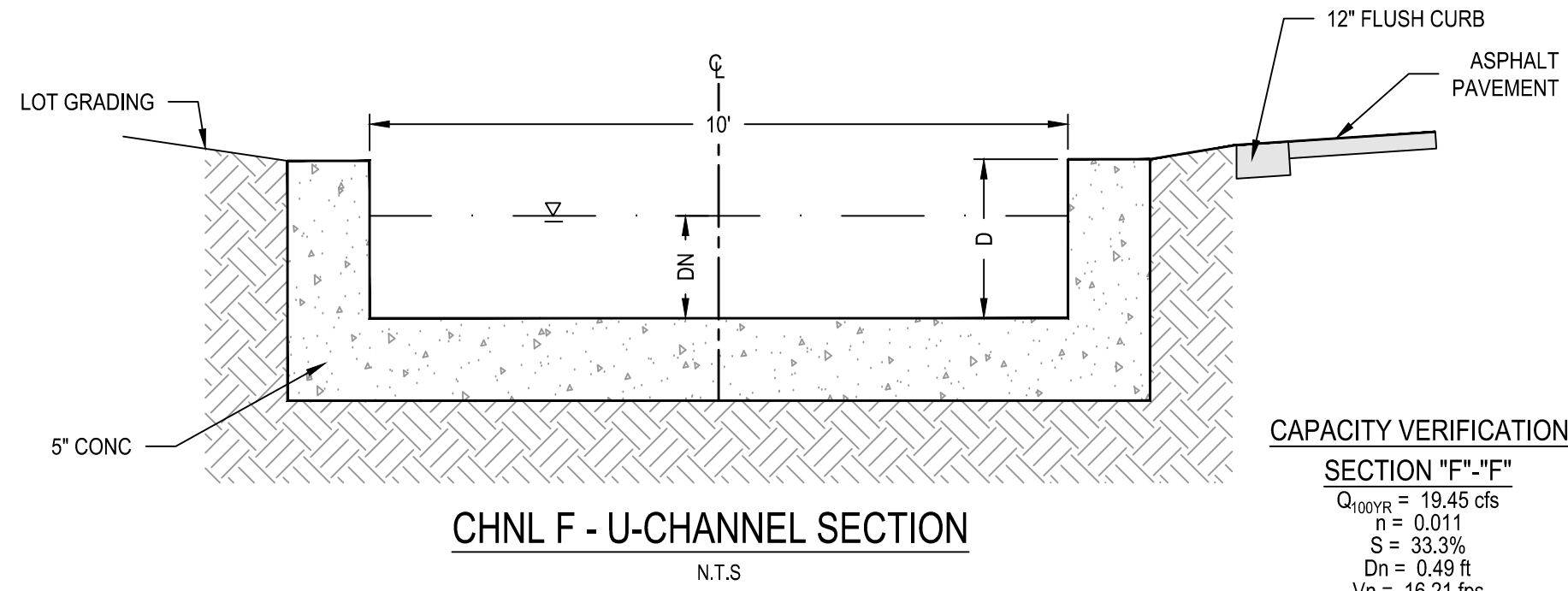
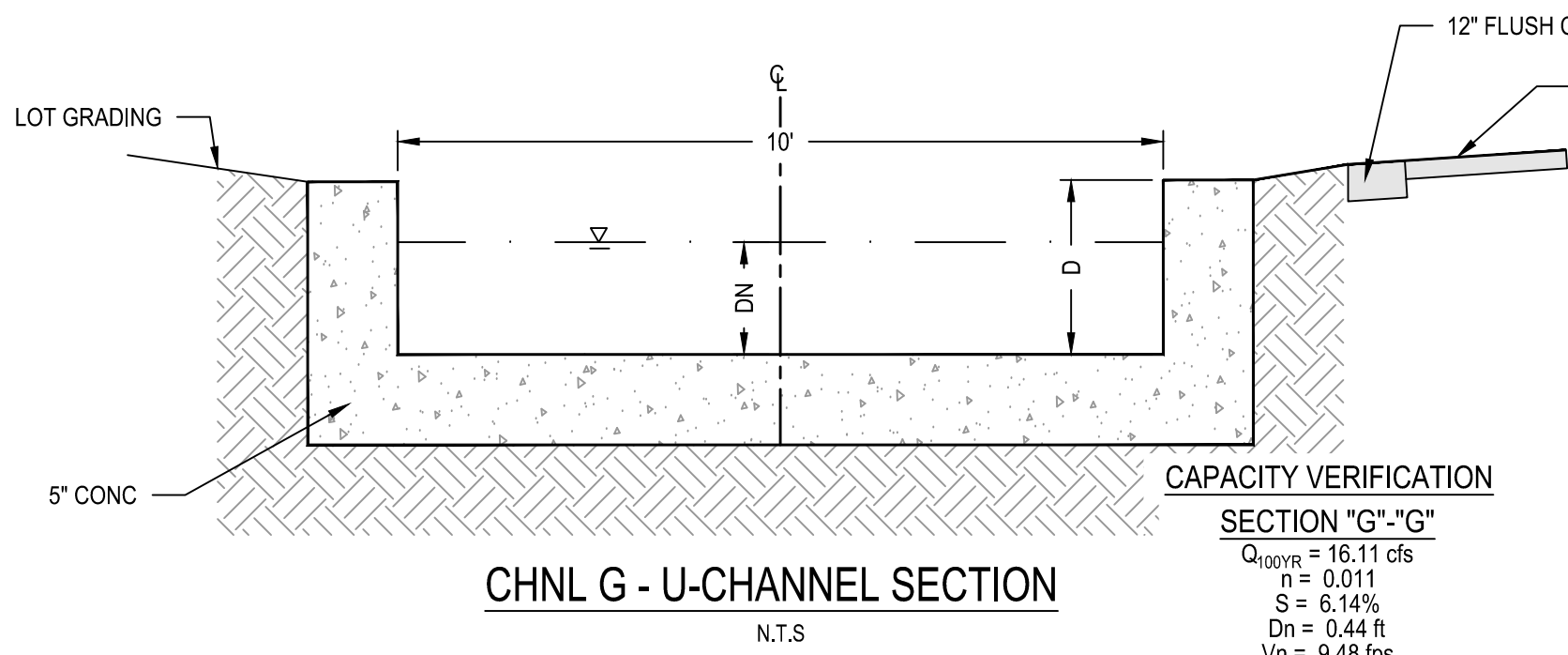
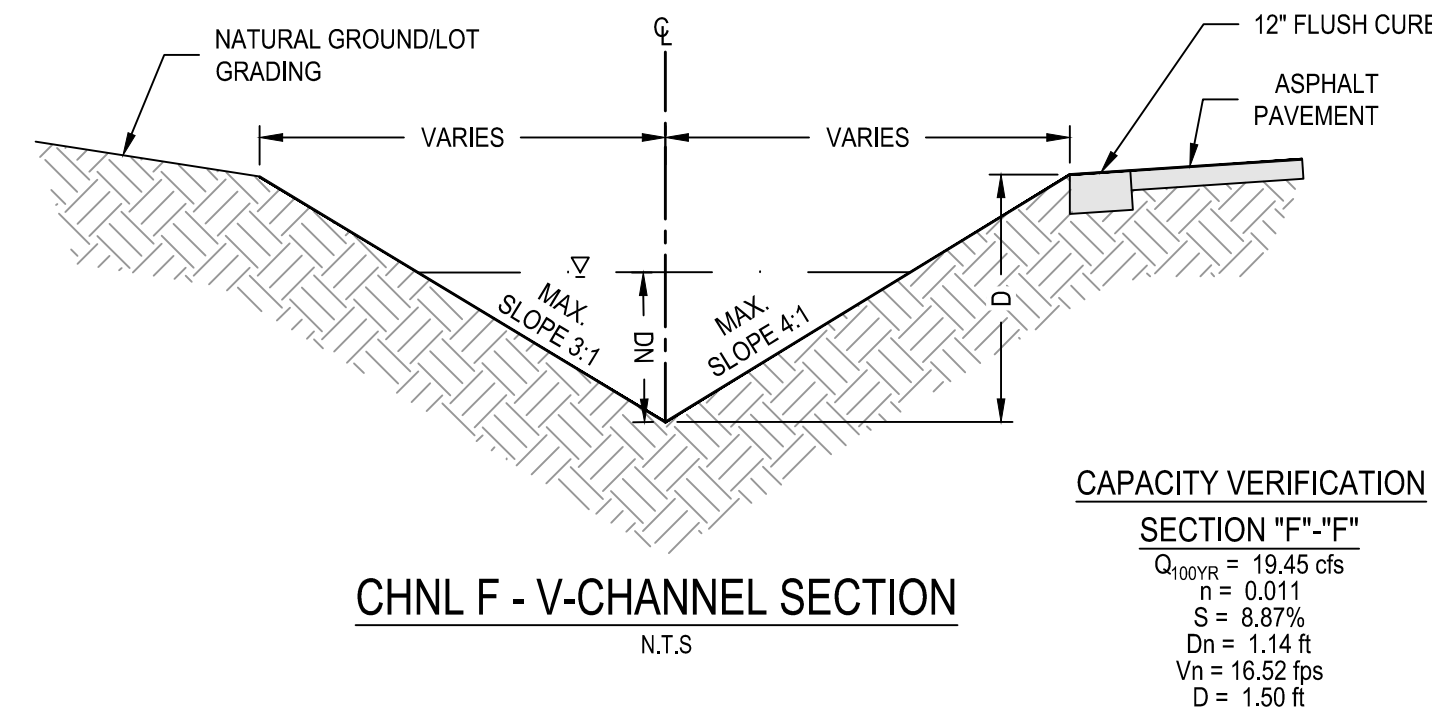
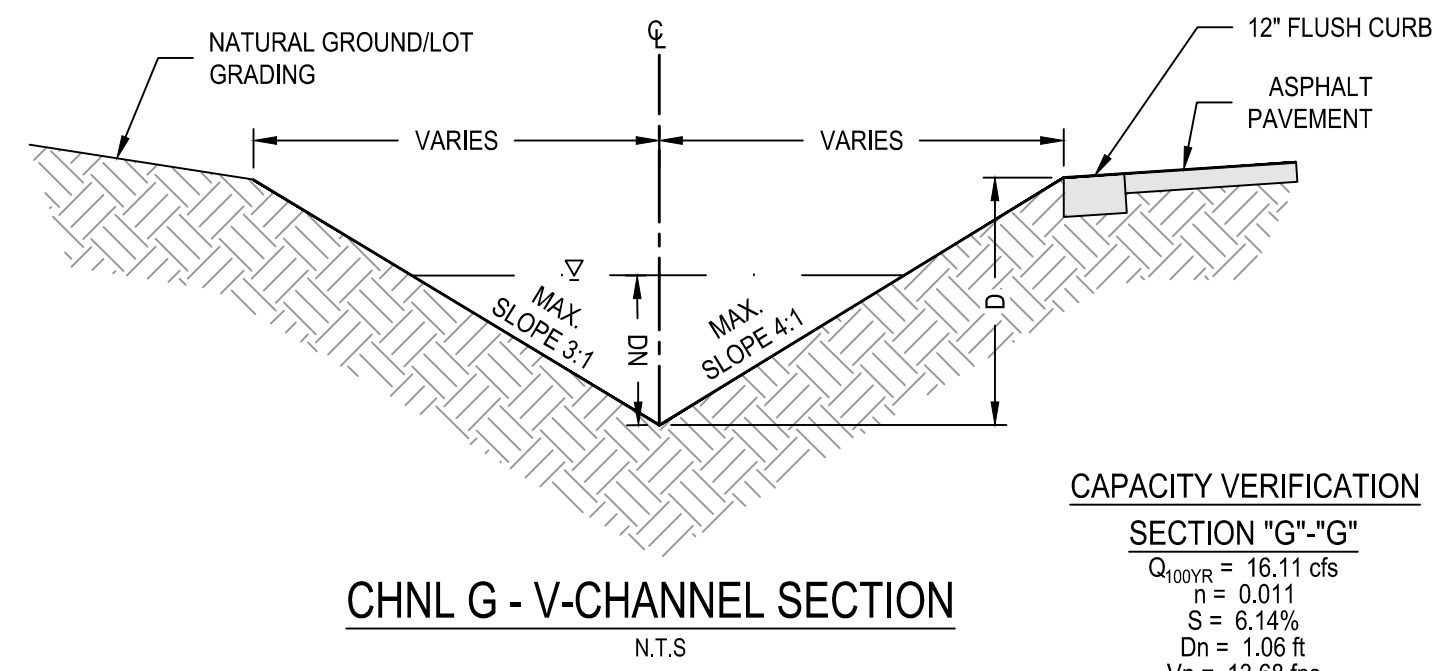
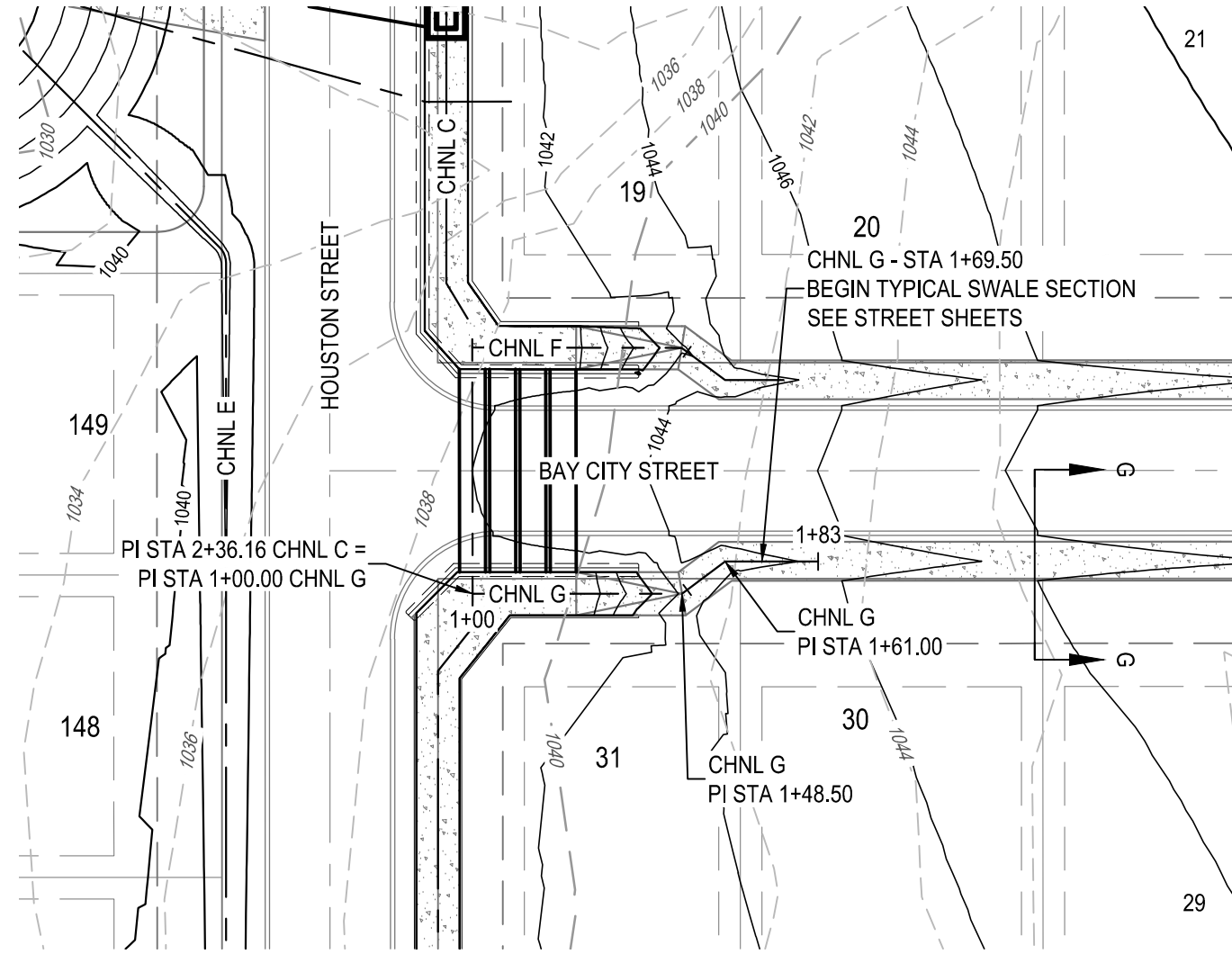
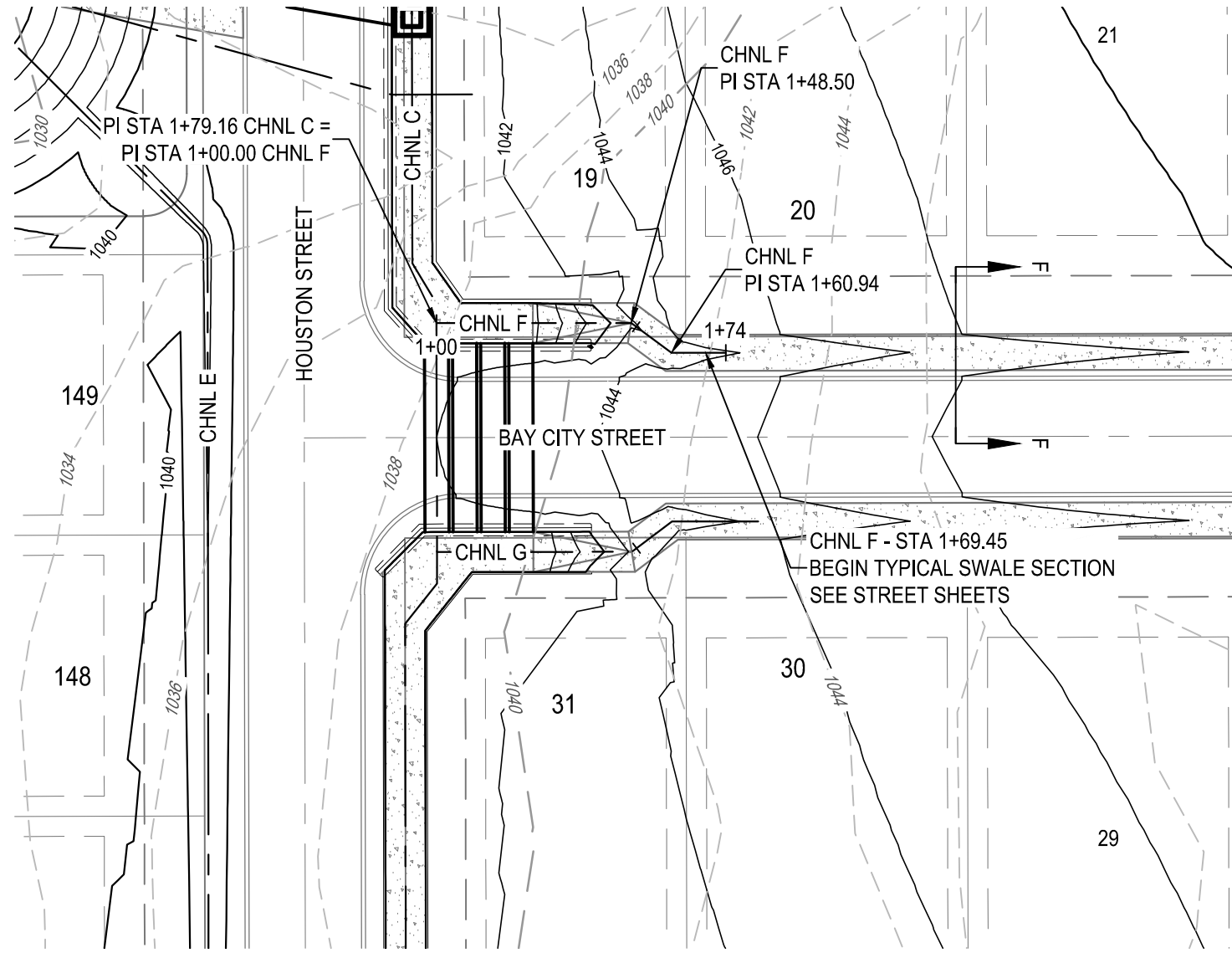
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WIMBERLEY RIDGE
CHANNEL E PLAN AND PROFILE STA
6+50 TO END



05/02/2024

SHEET
34



0 20' 40' 80'
SCALE: 1" = 40'

LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED WASTEWATER FORCEMAIN
- PROPOSED WATER LINE
- PROPOSED WASTEWATER SERVICES
- PROPOSED WATER SERVICES
- DIRECTION OF FLOW
- UTILITY CROSSING
- PROPOSED SWALE FLOWLINE

PROFILE LEGEND

- PROPOSED STORM PIPE
- 25 YEAR HGL
- 100 YEAR HGL
- PROPOSED GROUND
- EXISTING GROUND

* ALL WATERWASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSES. REFER TO DETAILS SHOWN IN THIS PLAN SET.

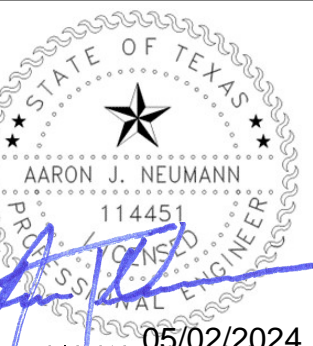
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TSP# Registration No. F-1046

WIMBERLEY RIDGE

CHANNEL F & G PLAN AND PROFILE



05/02/2024

SHEET

35

DATE

REV

DESIGNED BY:

AGS

REVIEWED BY:

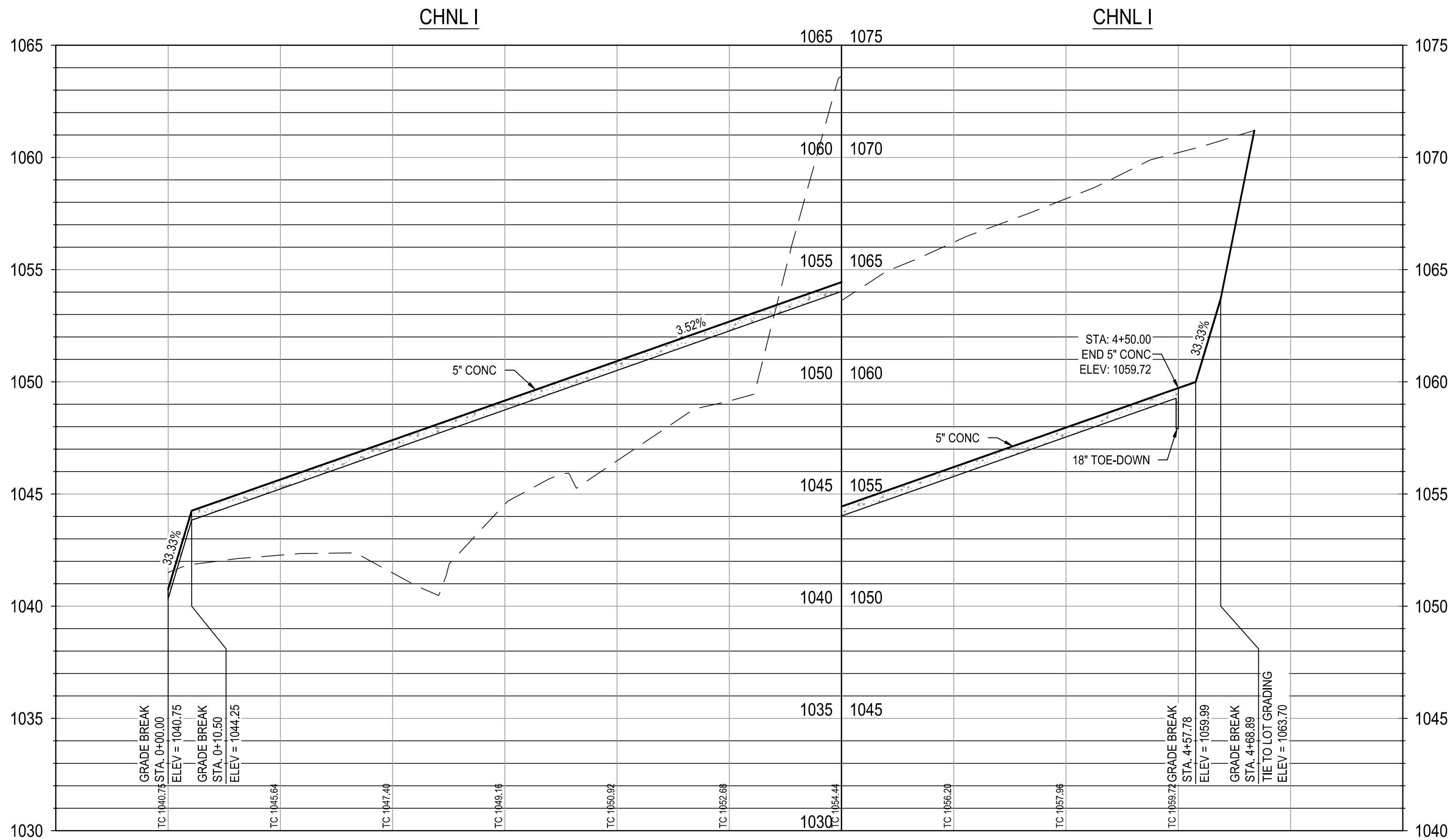
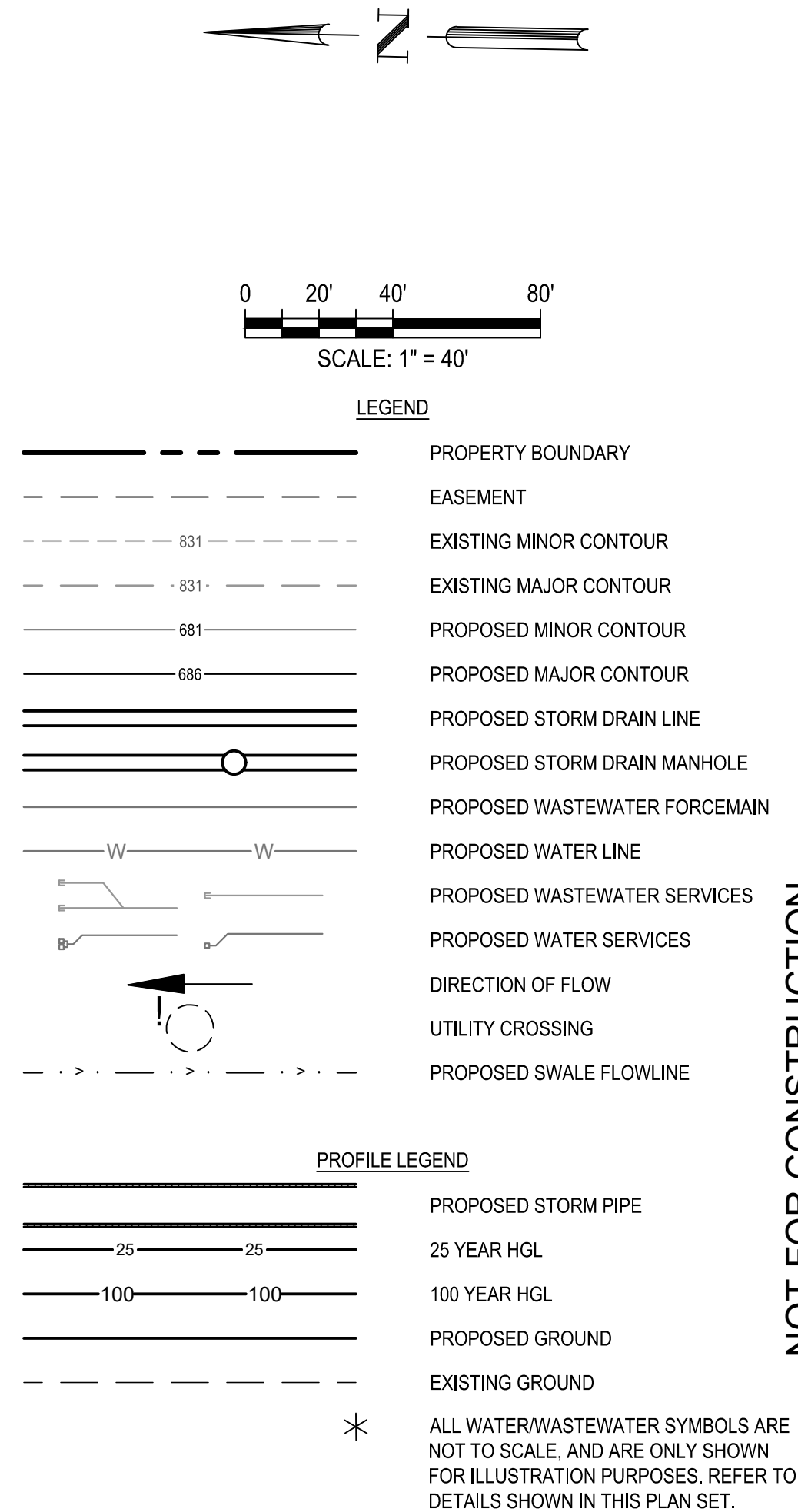
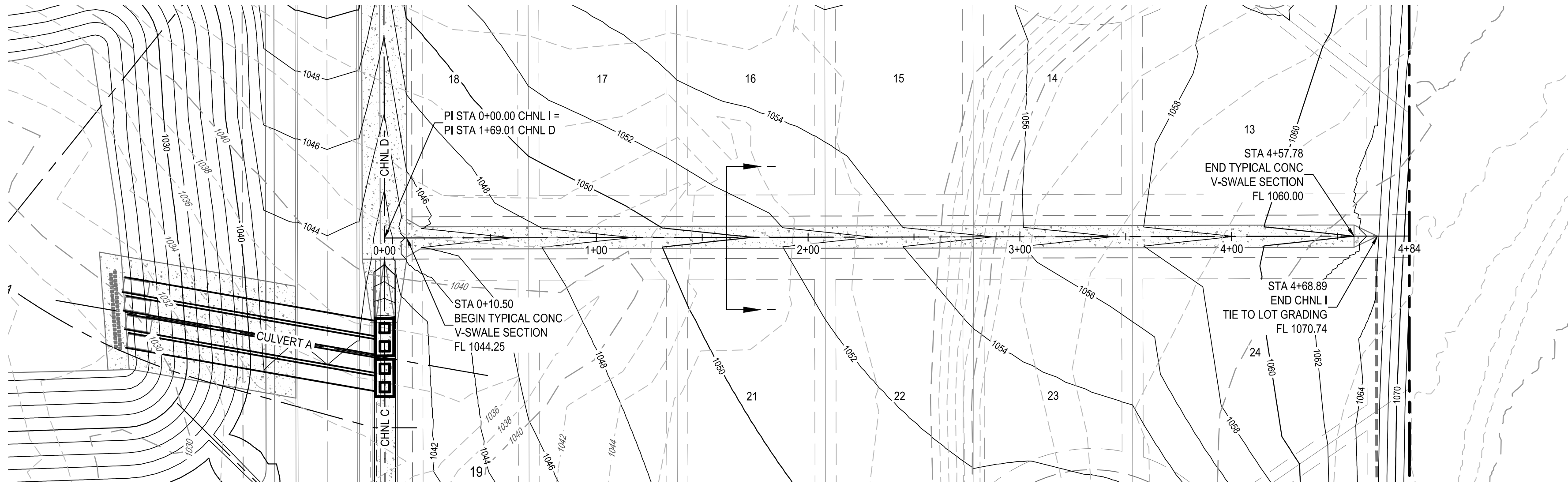
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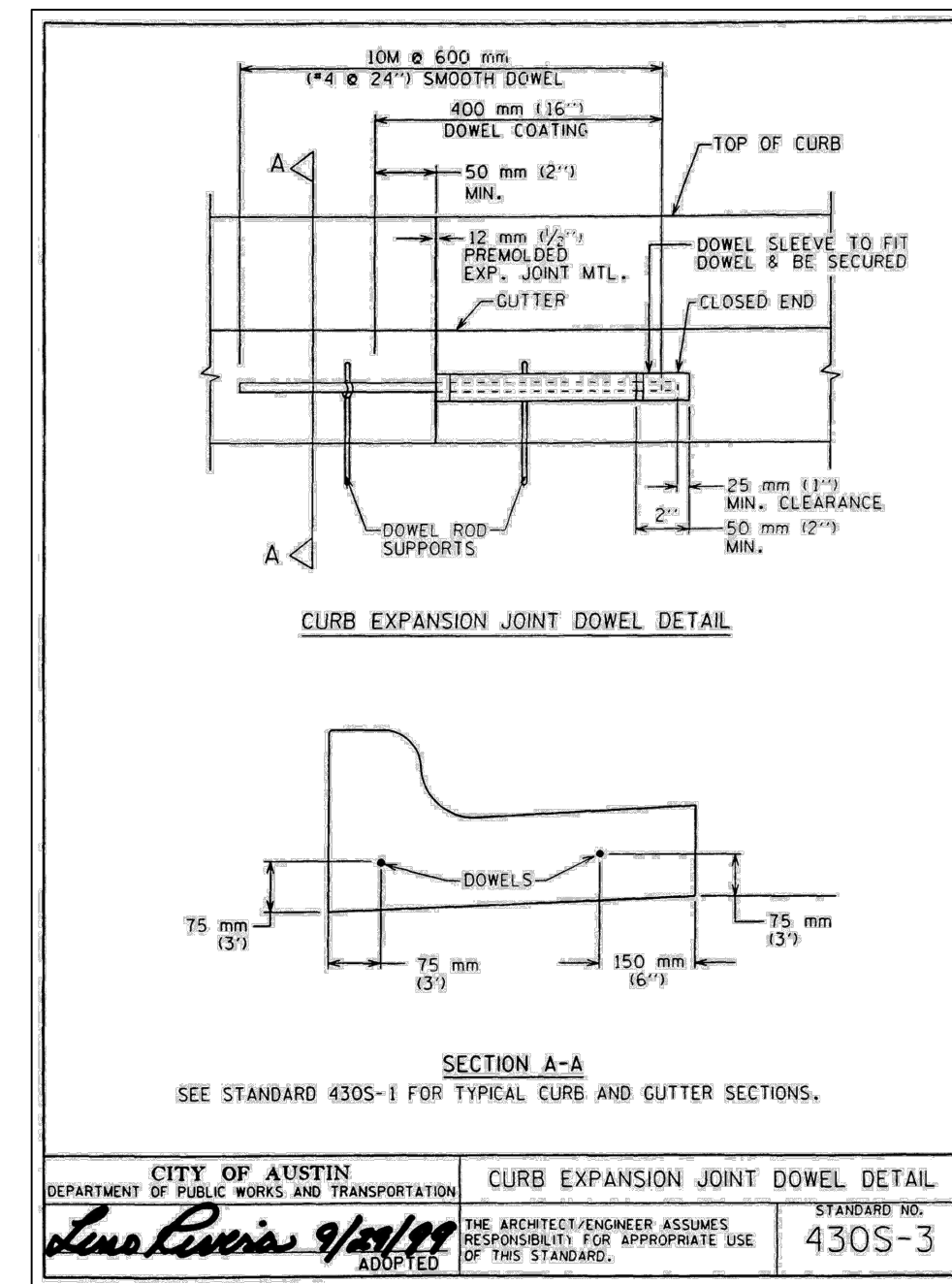
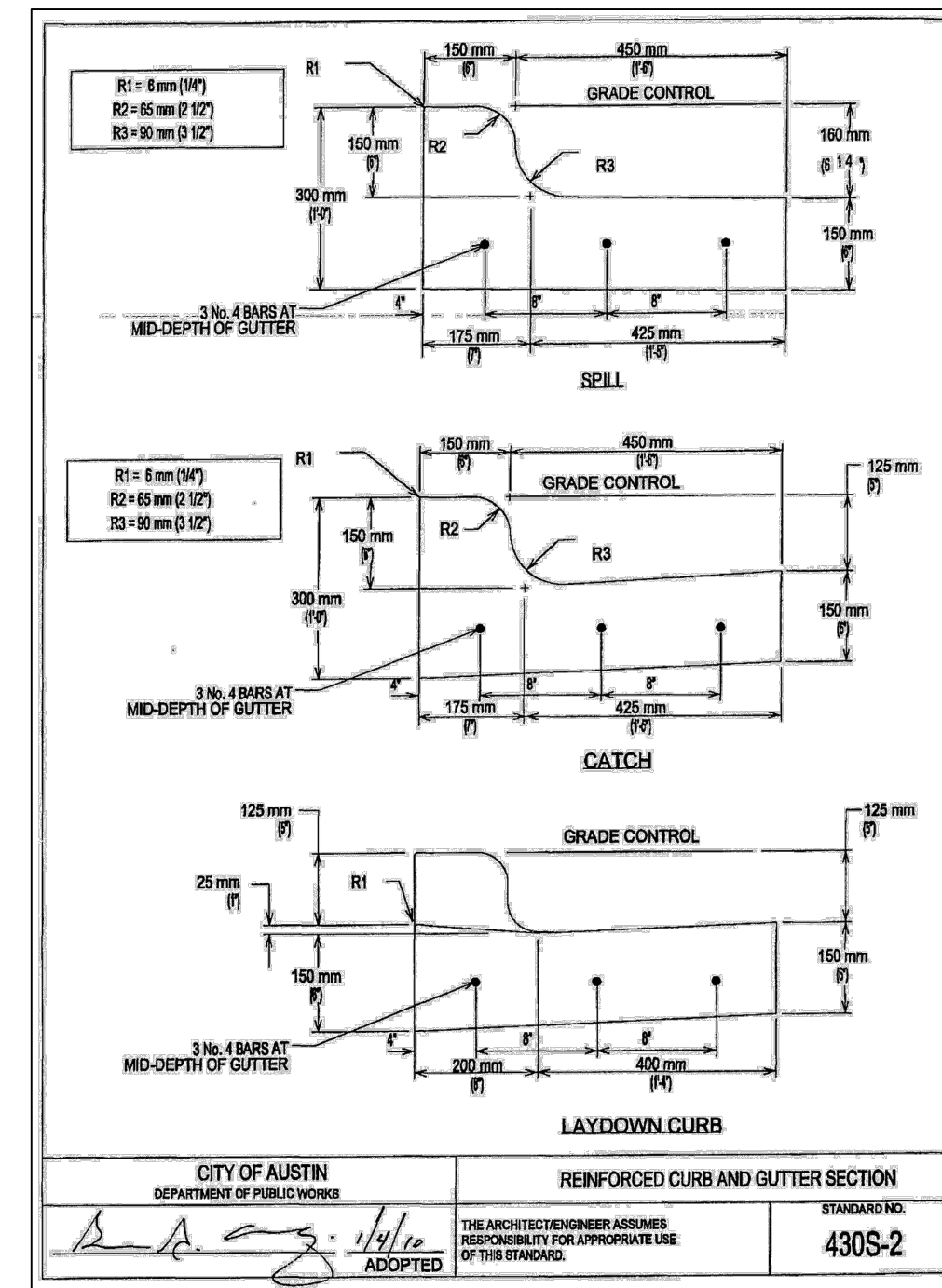
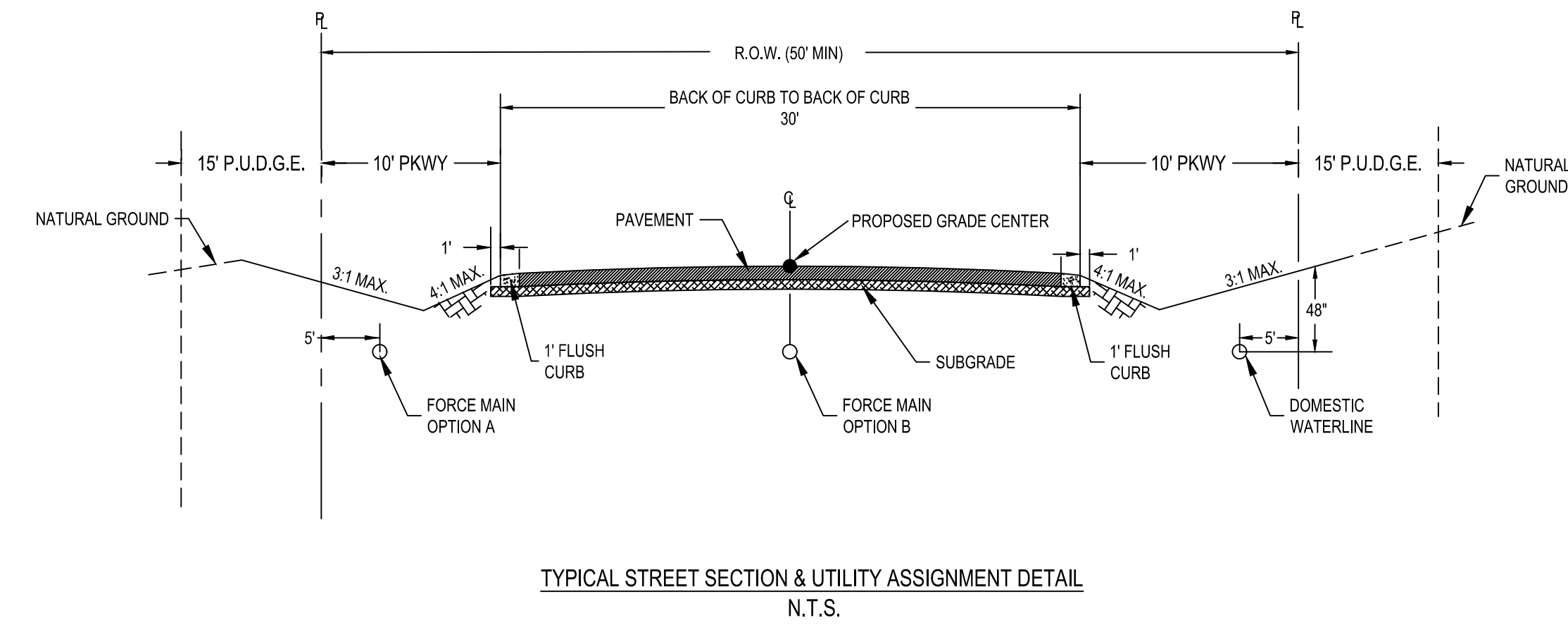
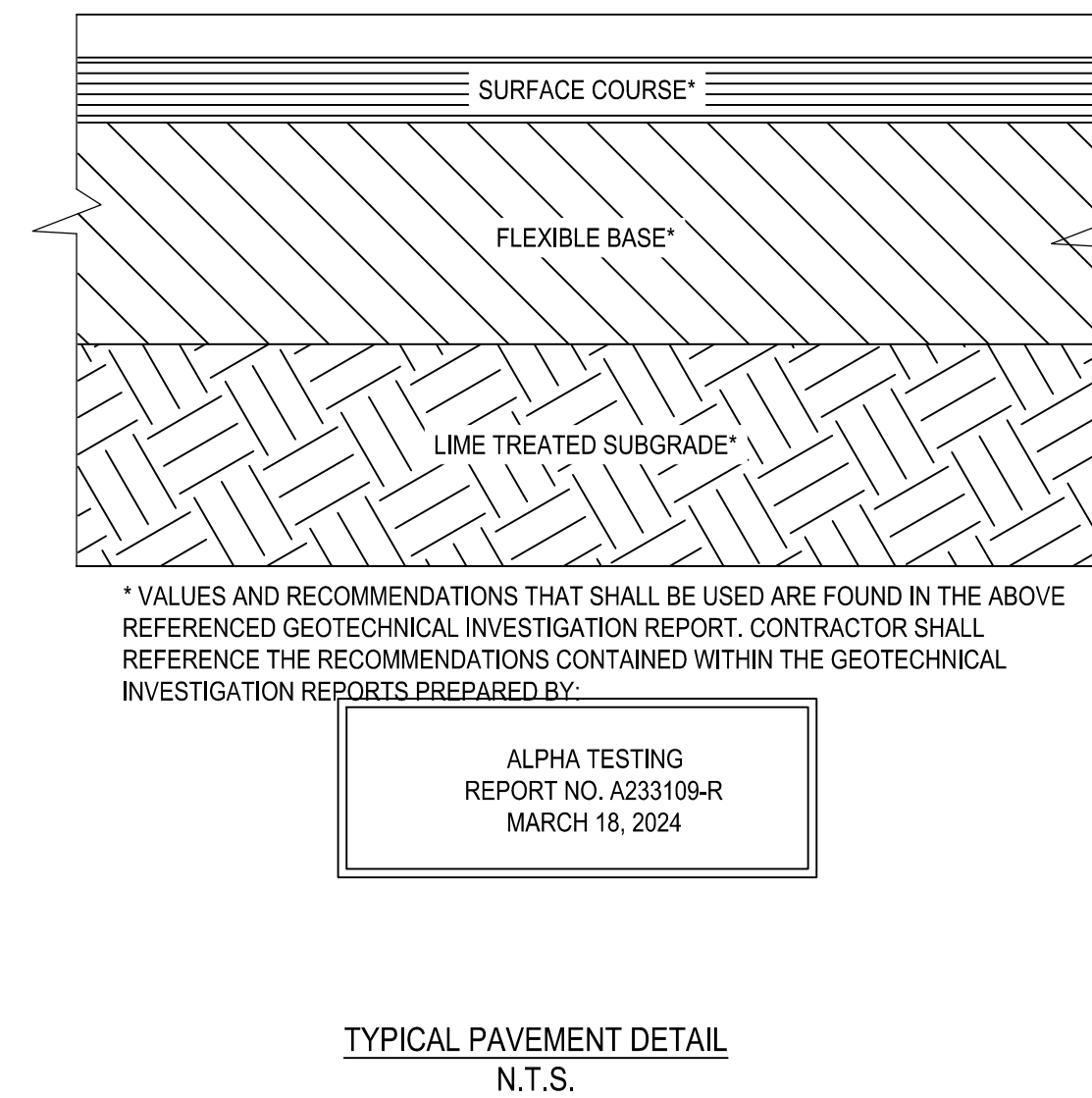
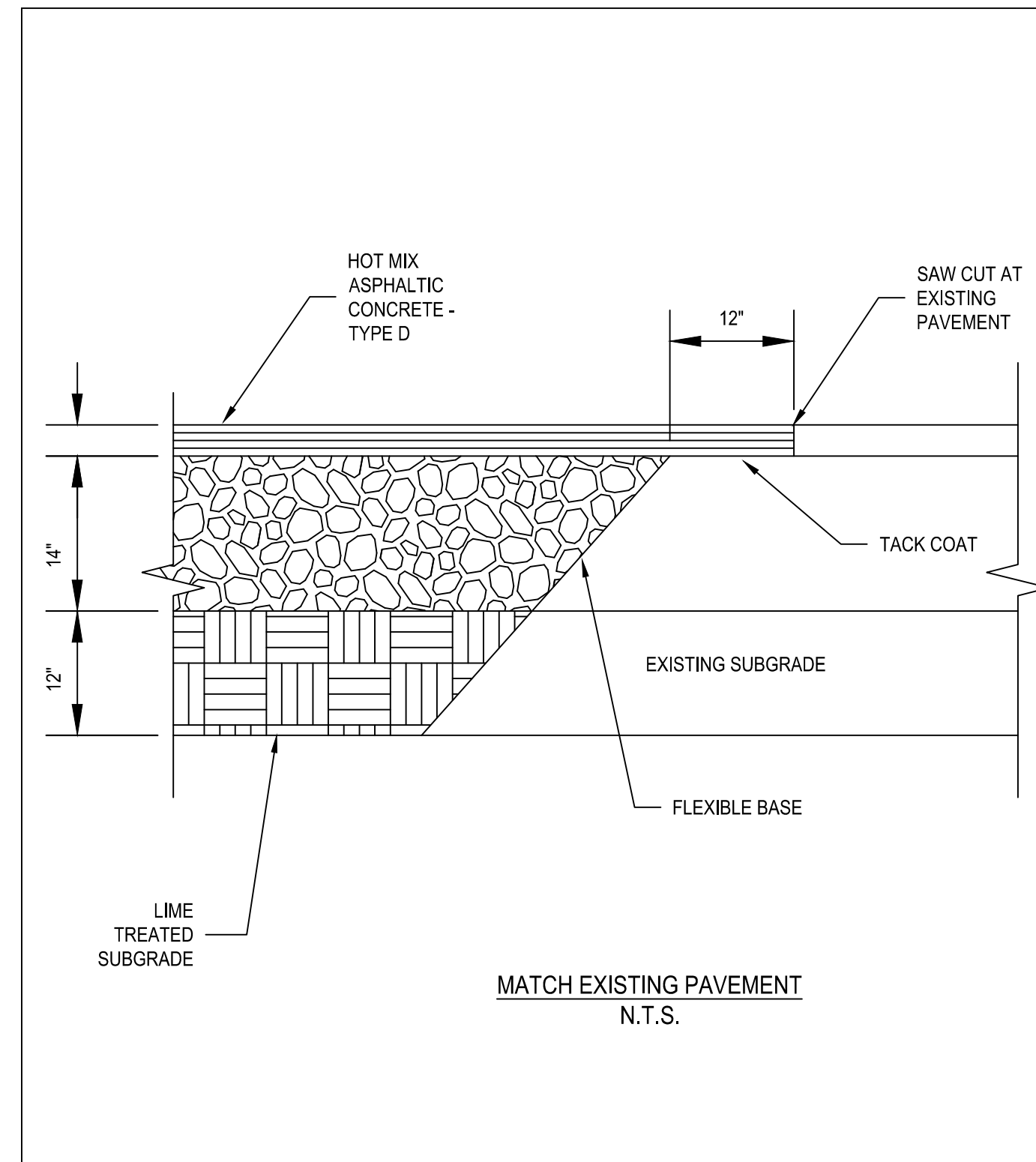
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RA

DESCRIPTION

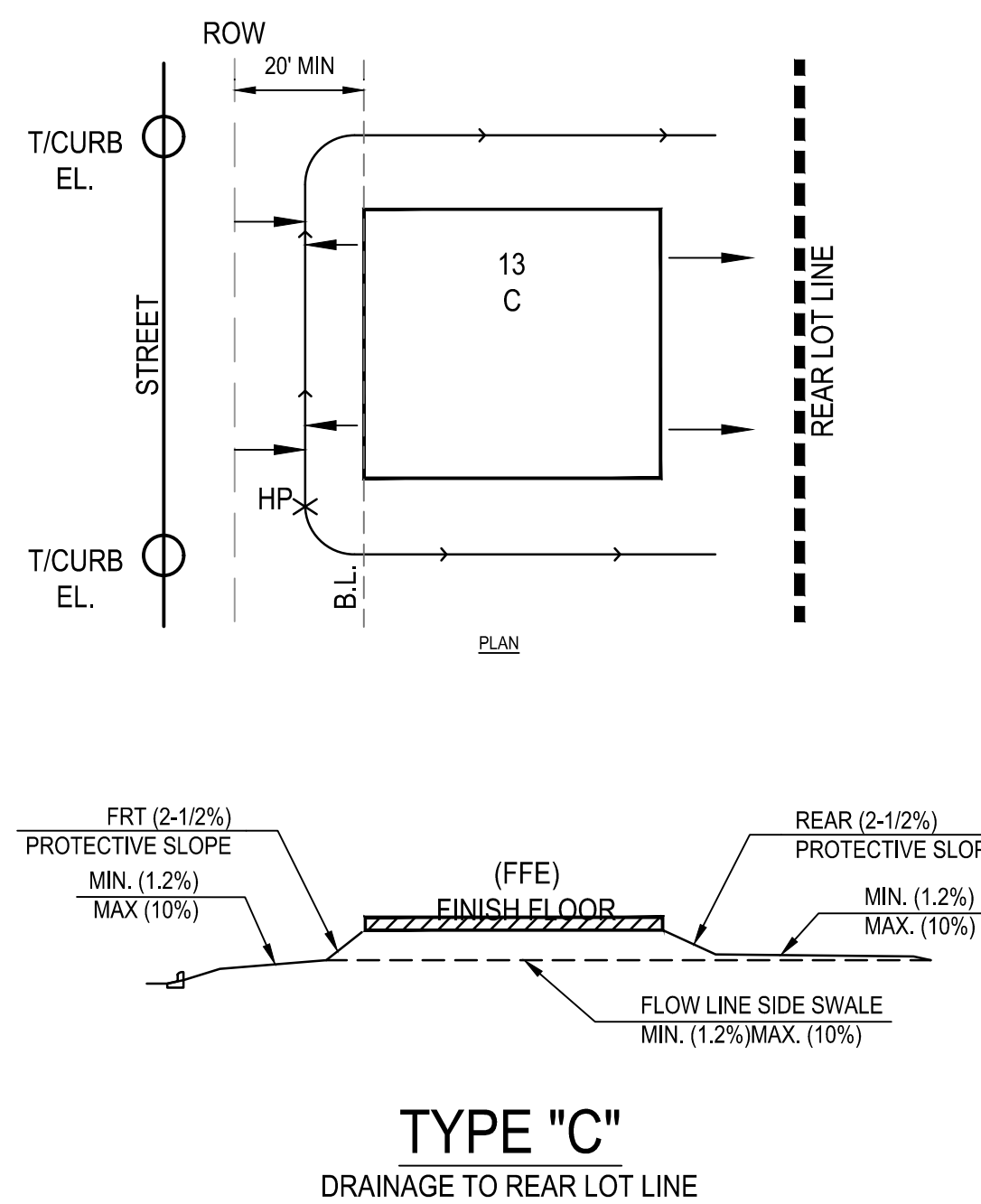
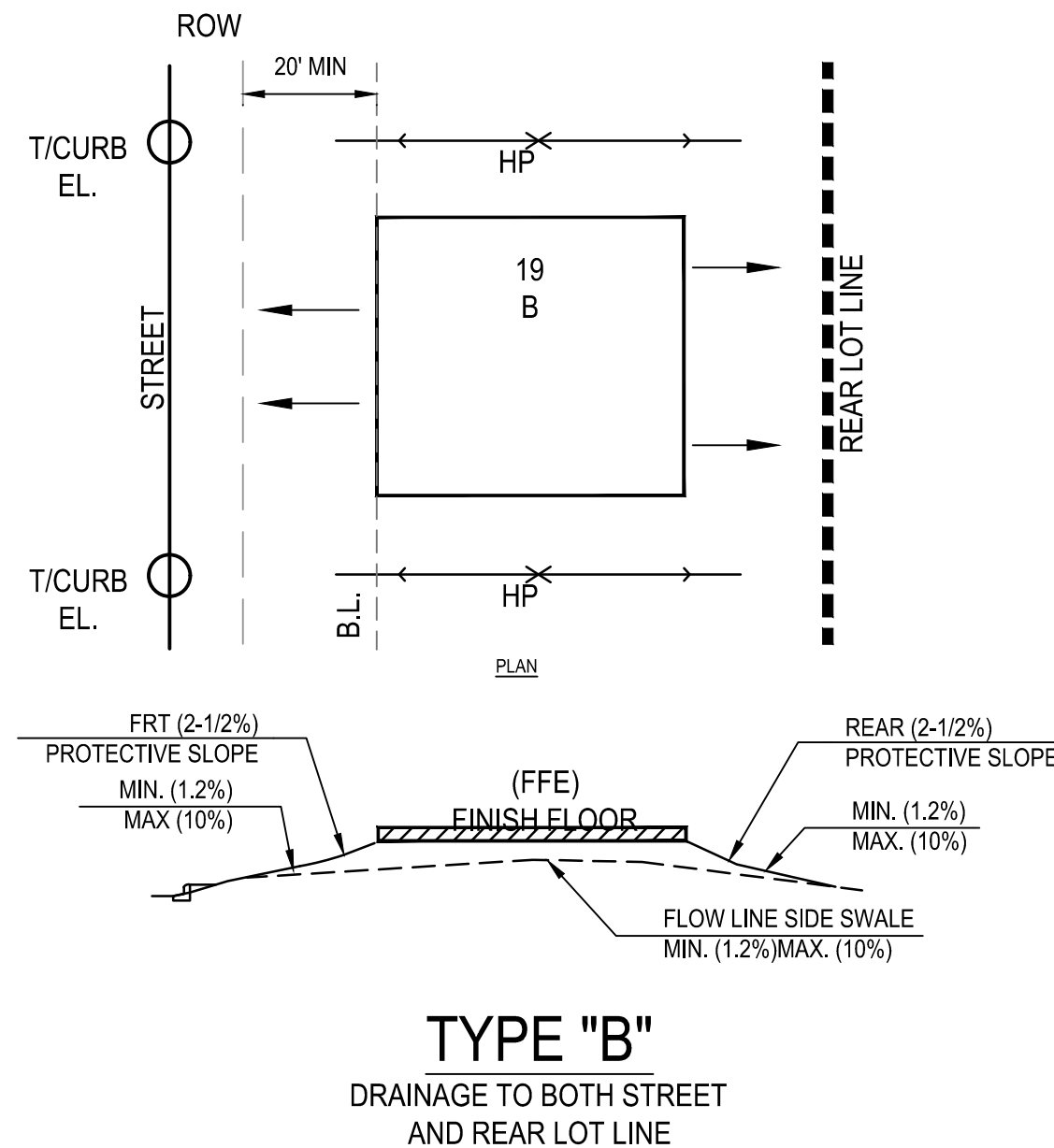
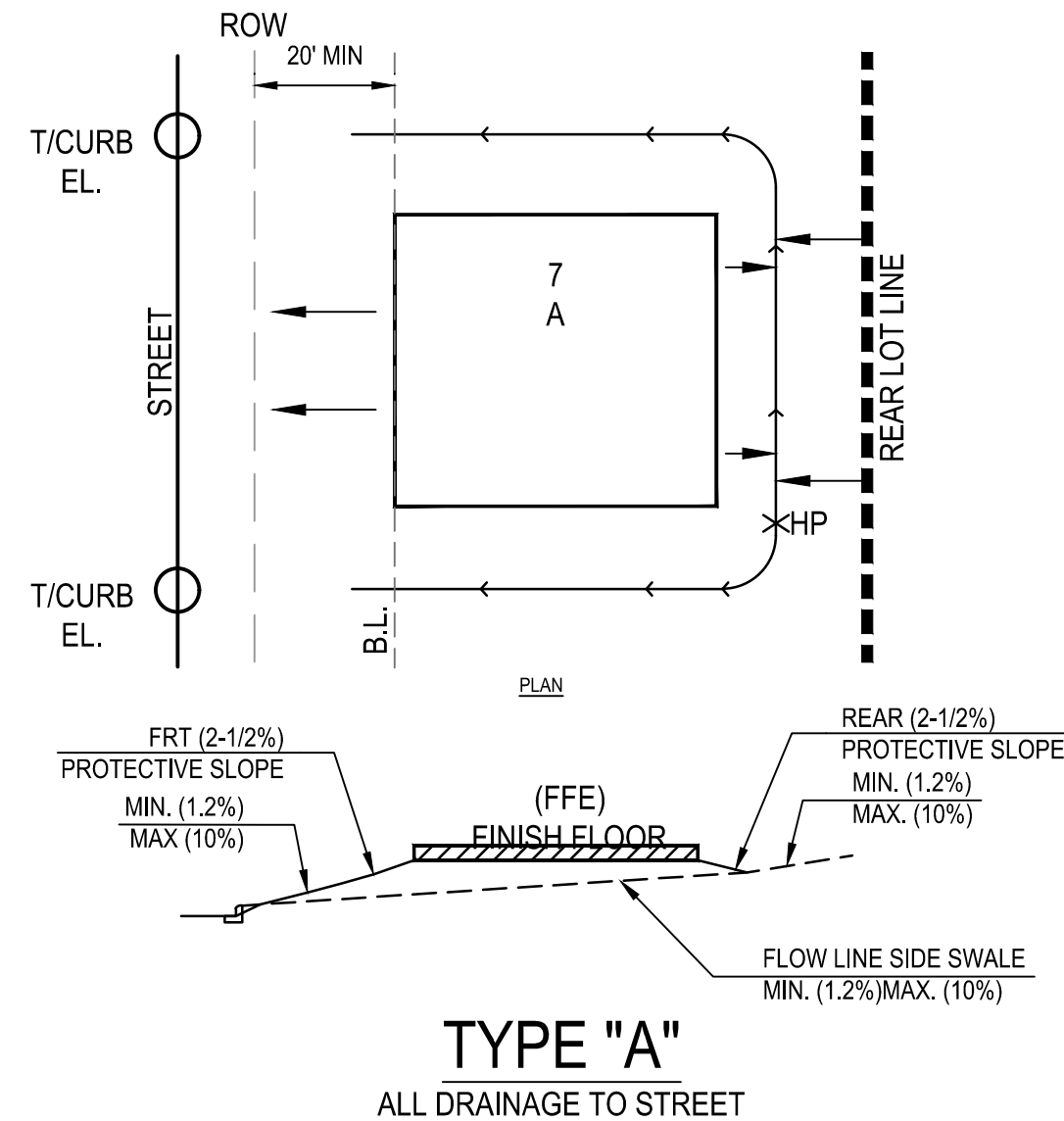
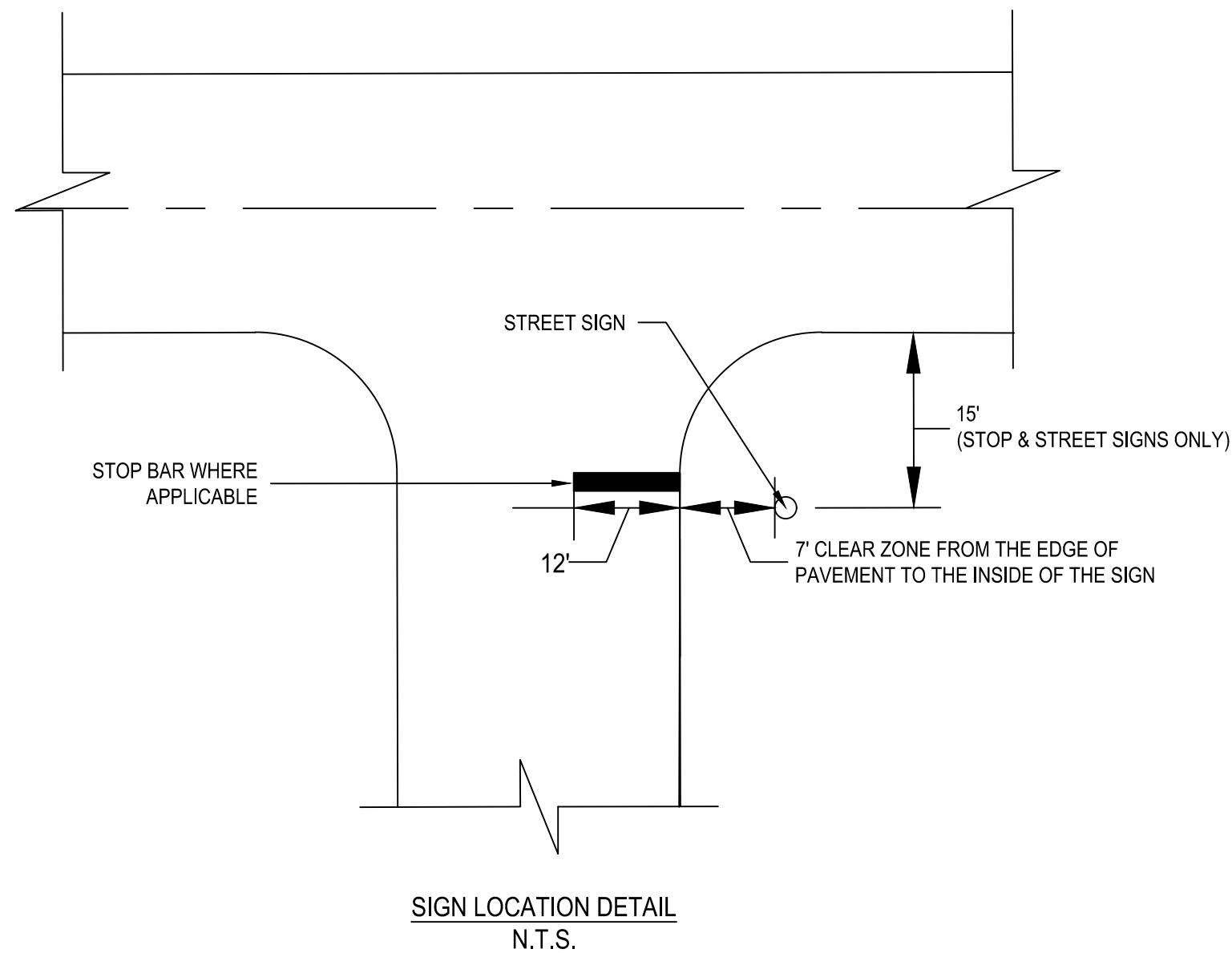
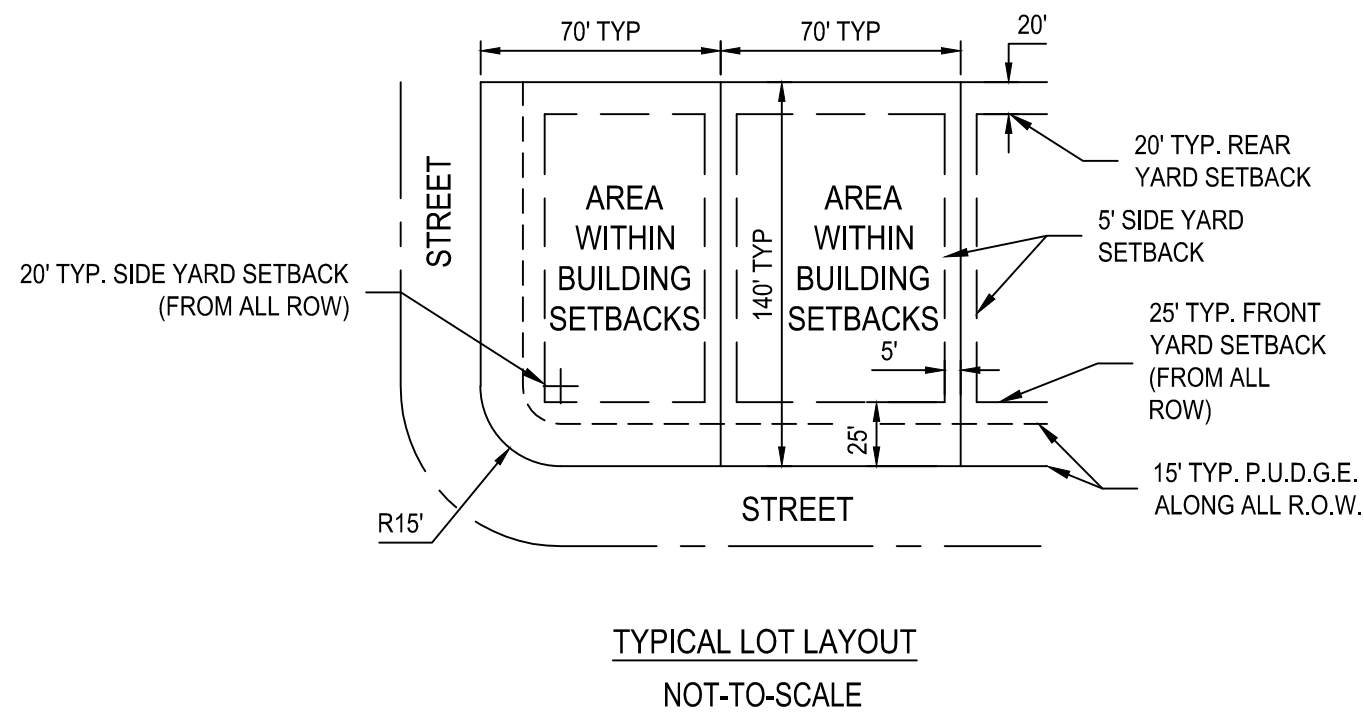
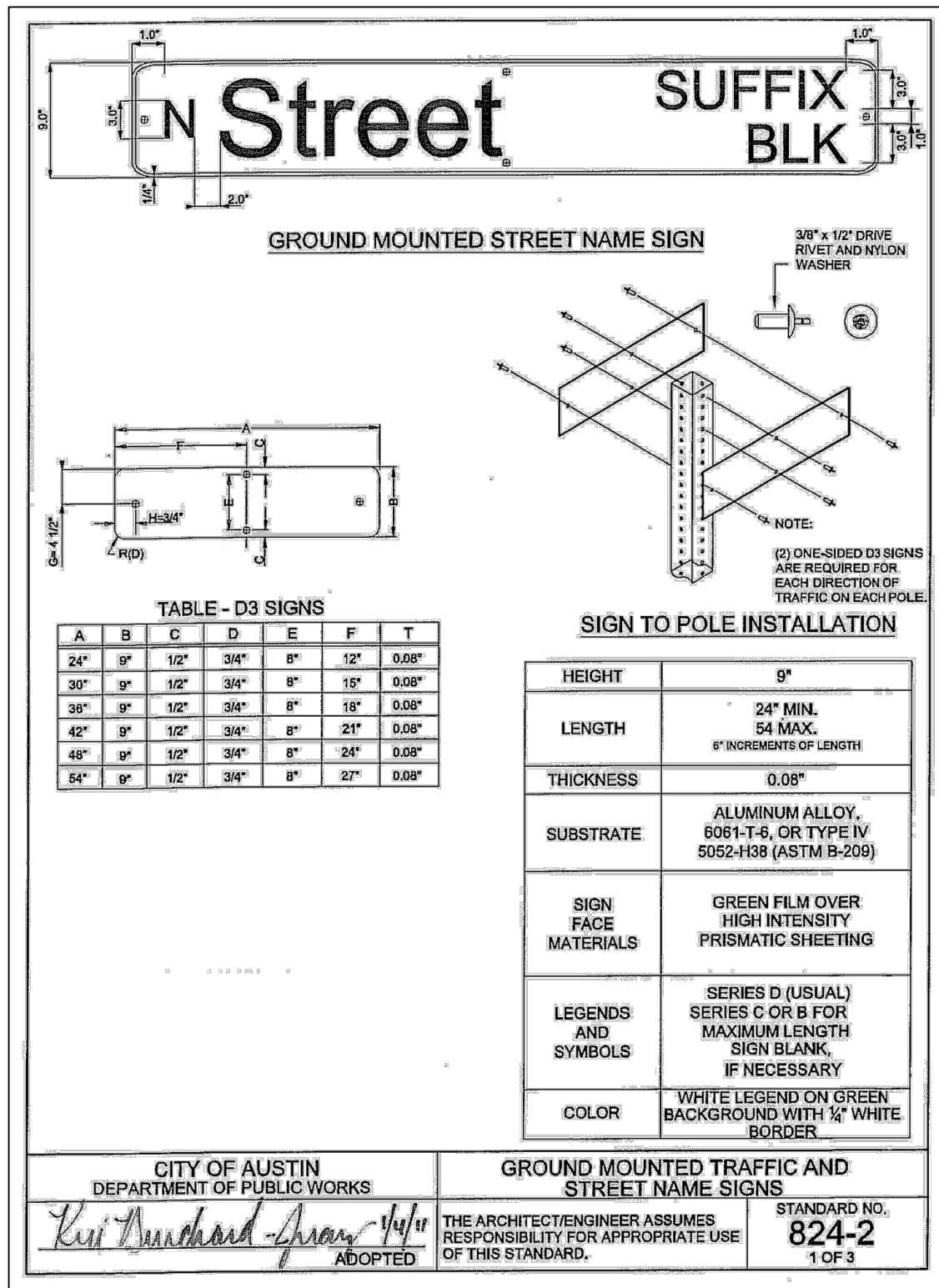
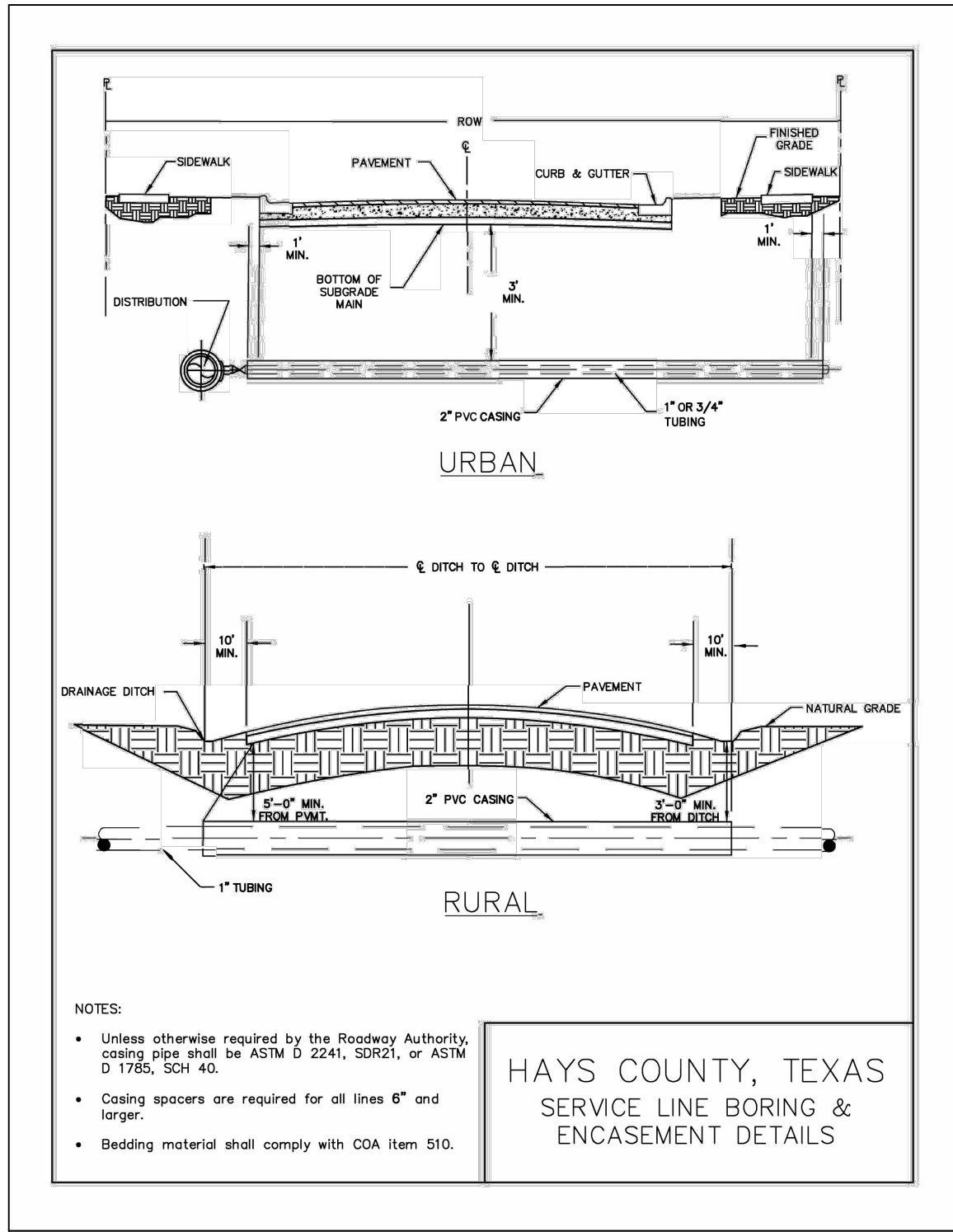






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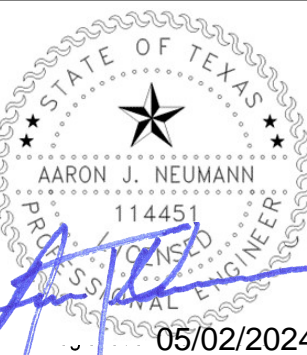


FHA LOT GRADING
N.T.S.

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WIMBERLEY RIDGE

STREET & DRAINAGE DETAILS (SHEET 2)



05/02/2024

SHEET

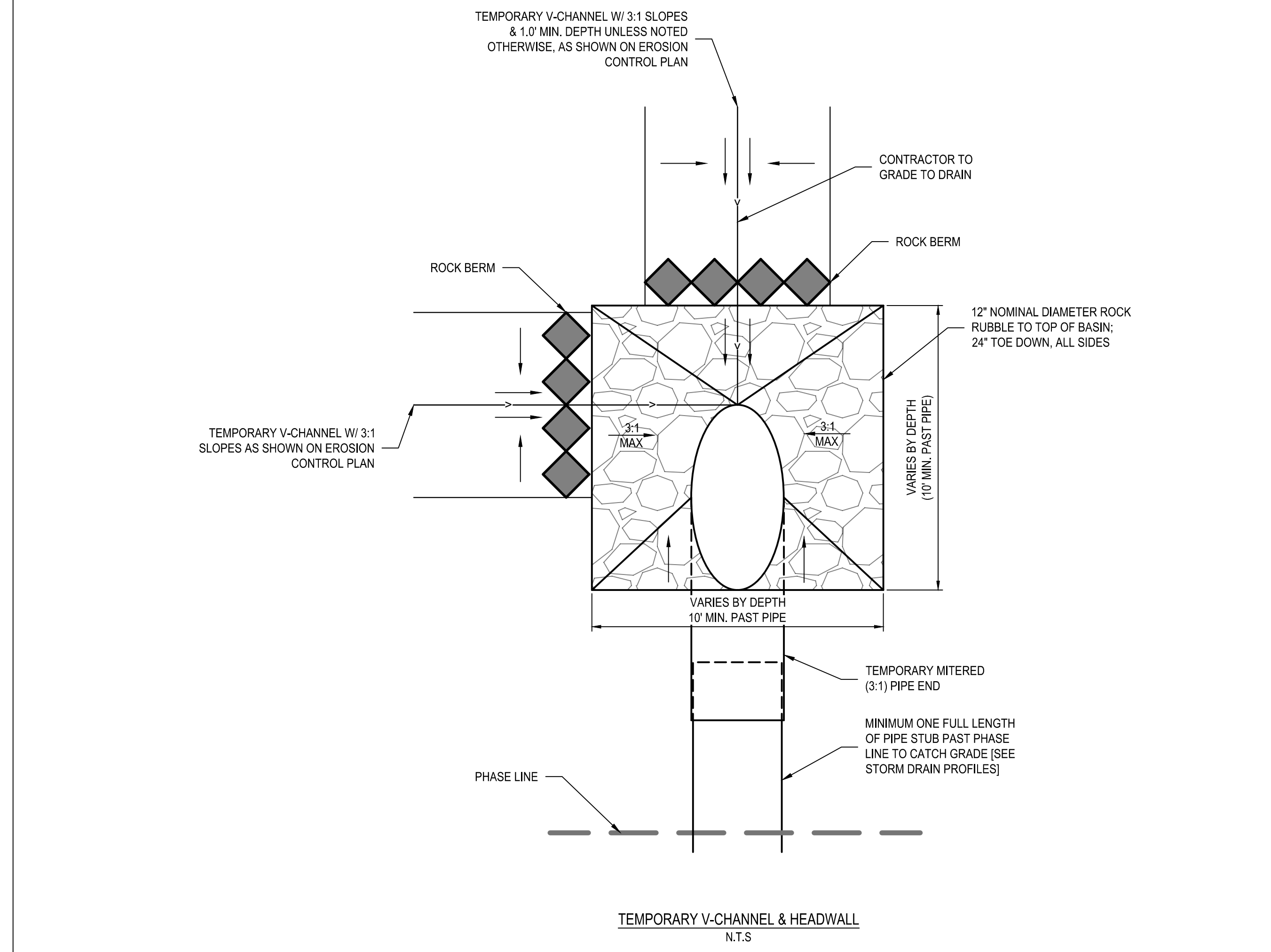
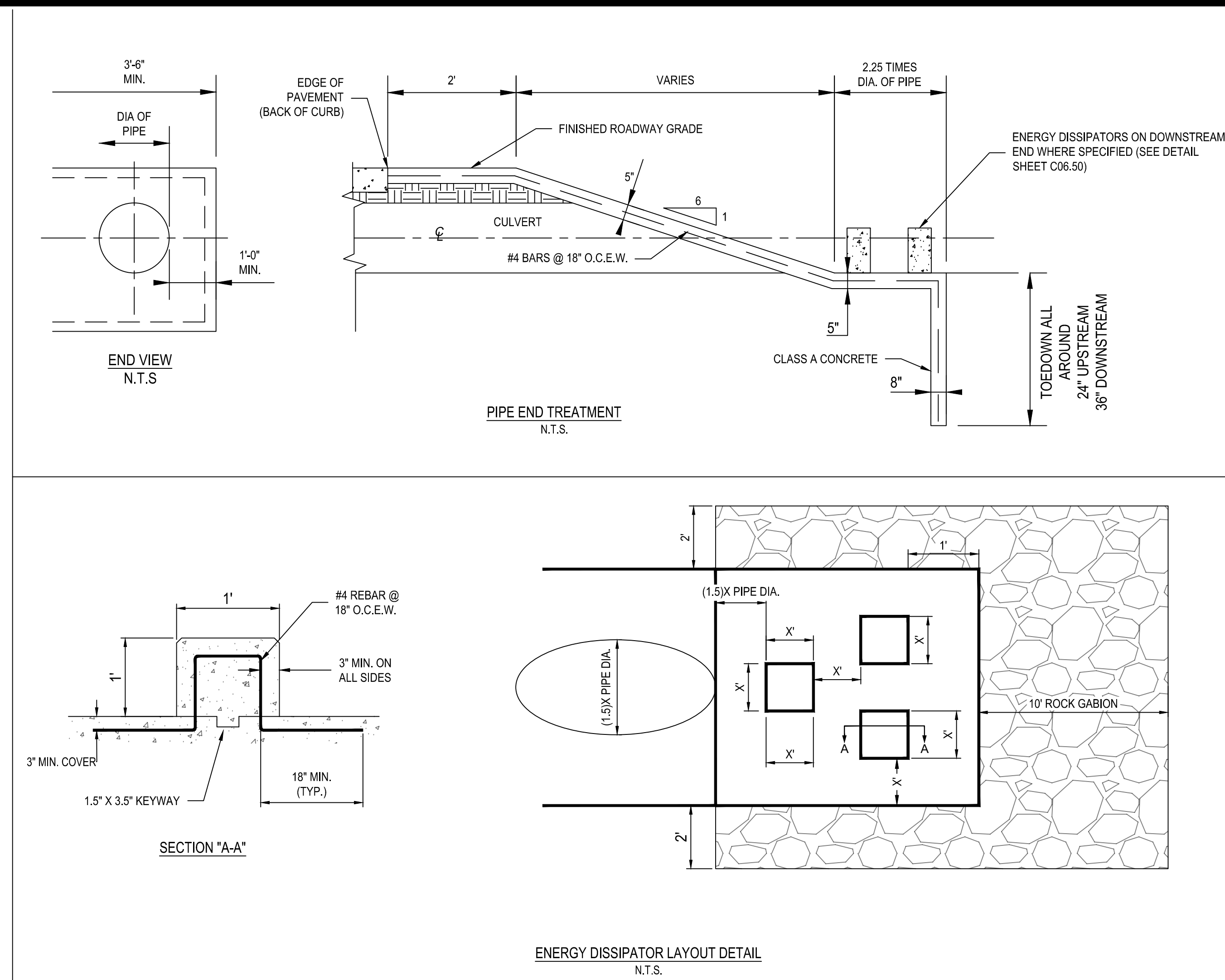
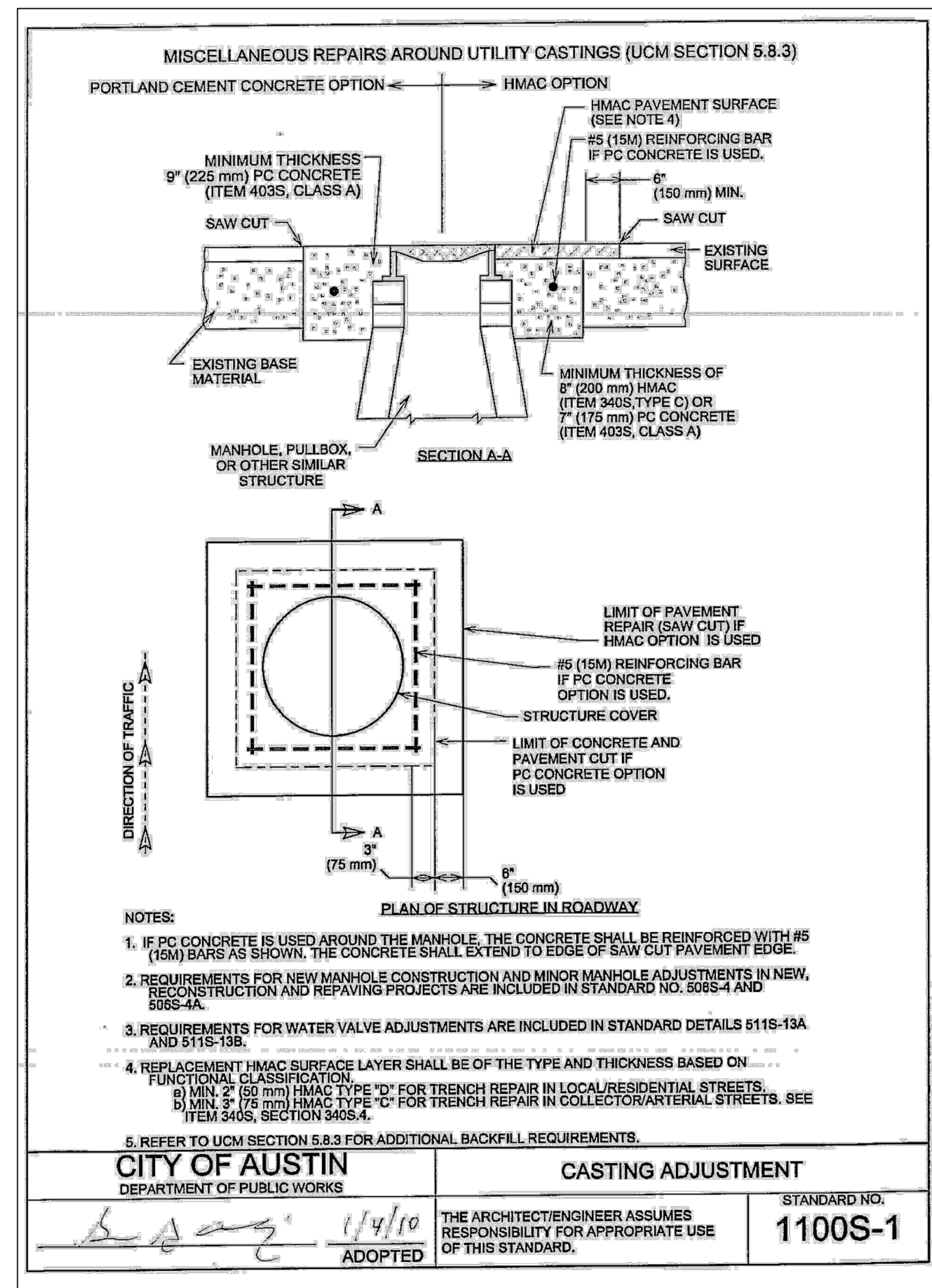
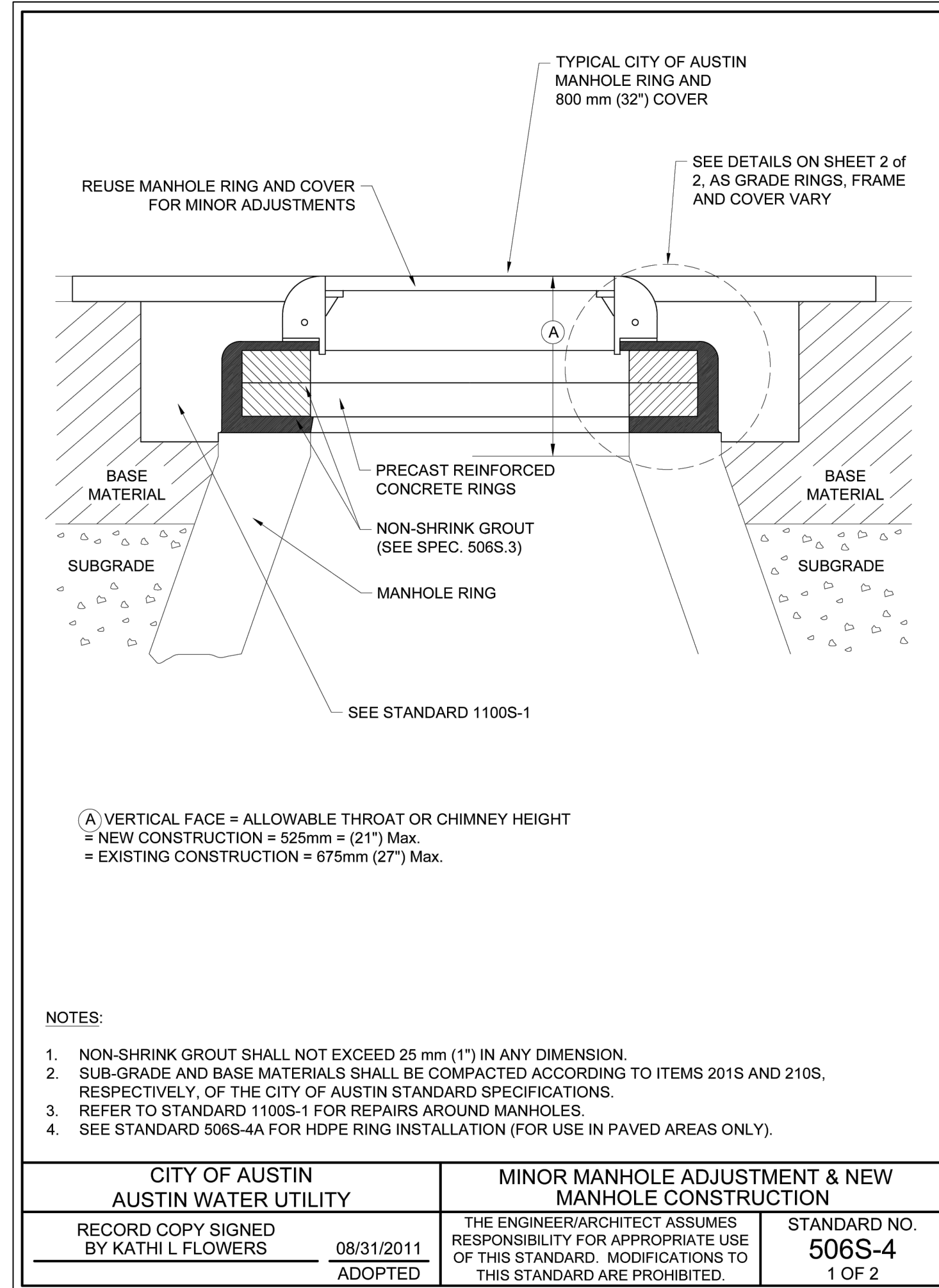
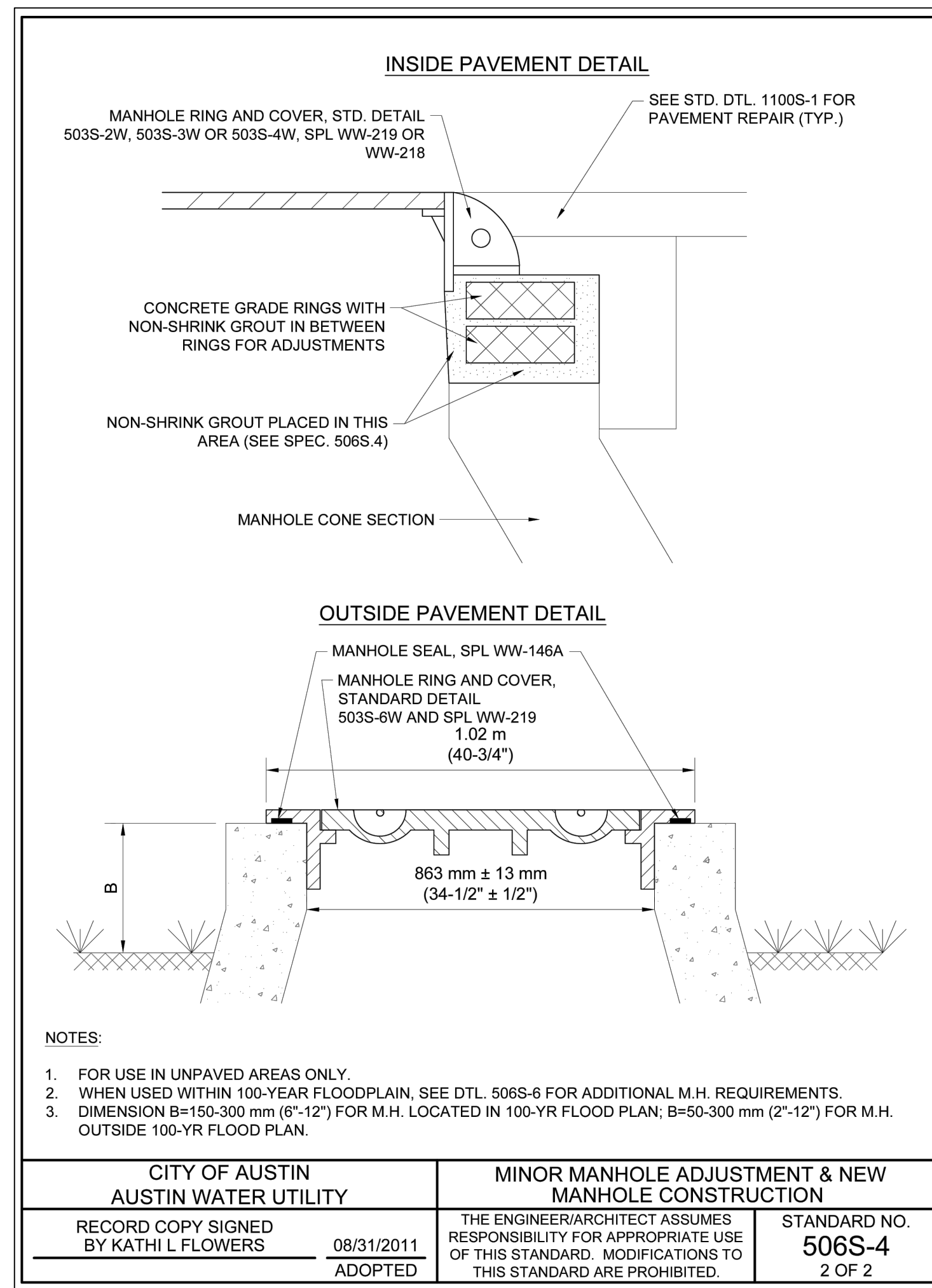
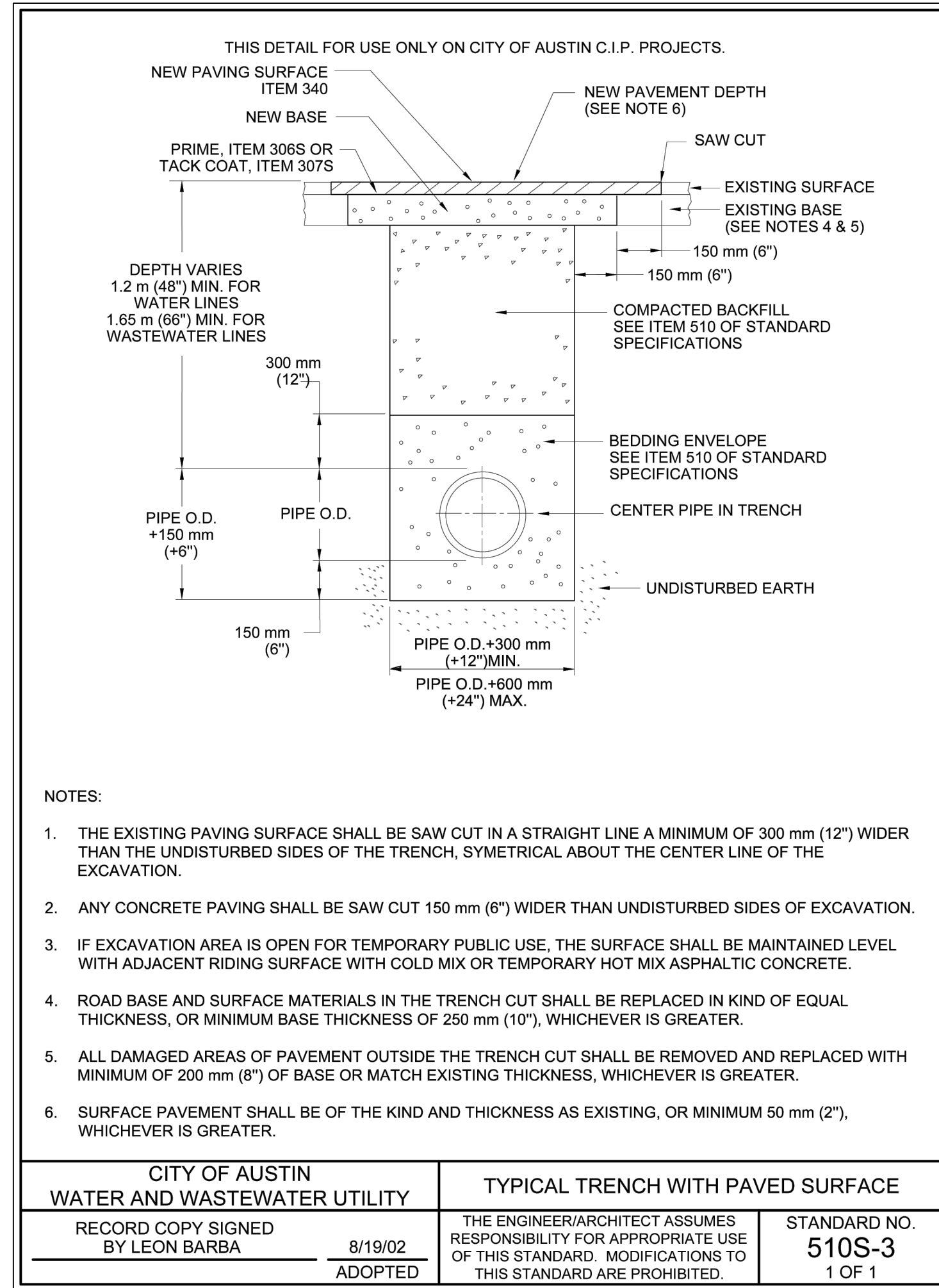
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DESIGNED BY: AGS
REVIEWED BY: TR
DRAWN BY: RA

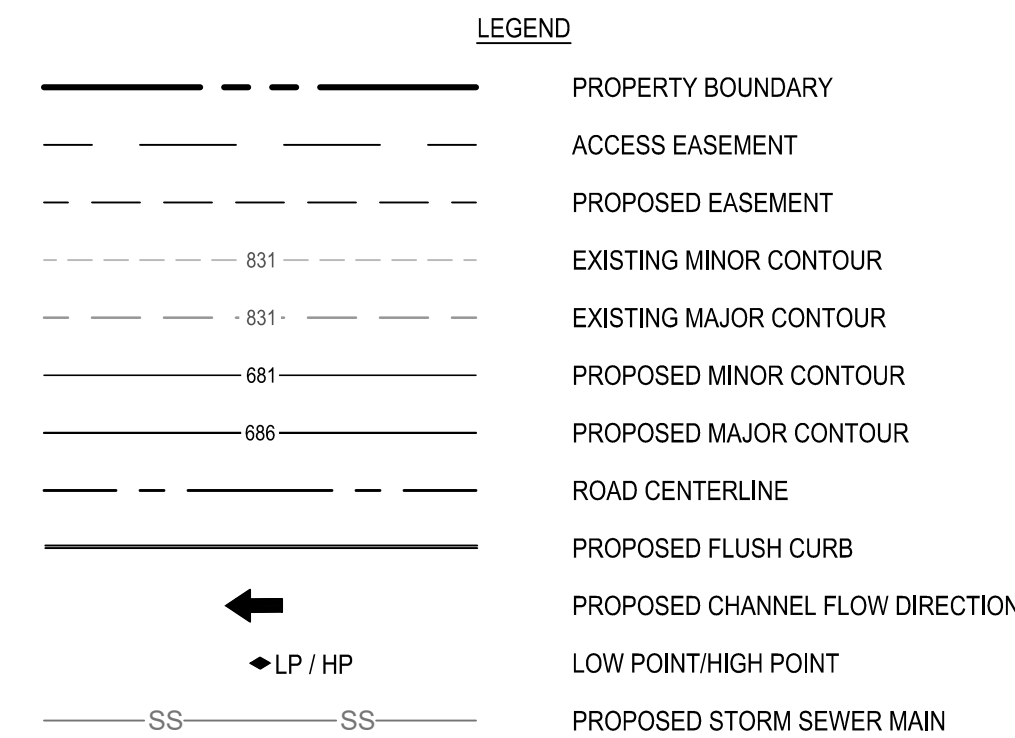
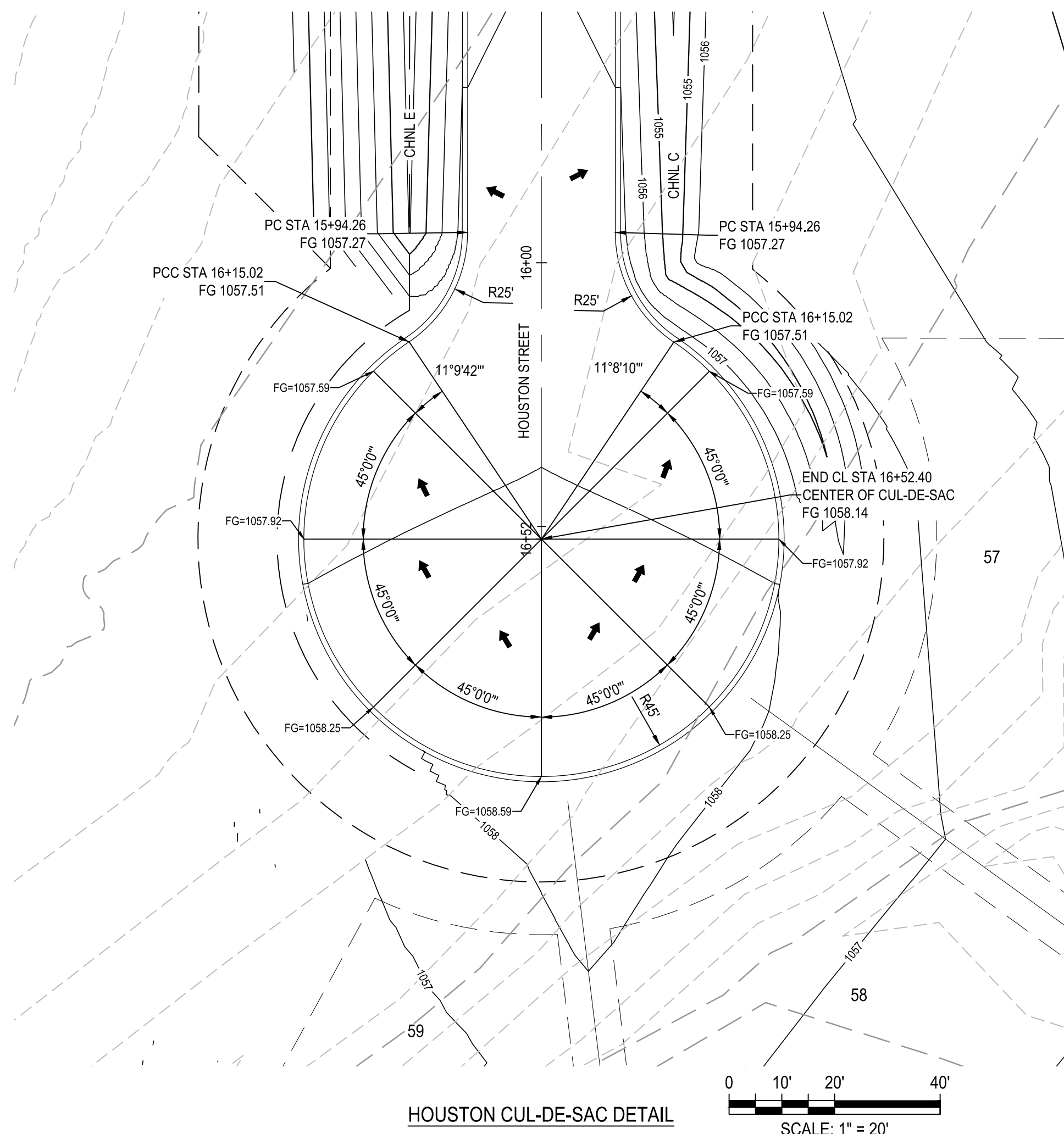
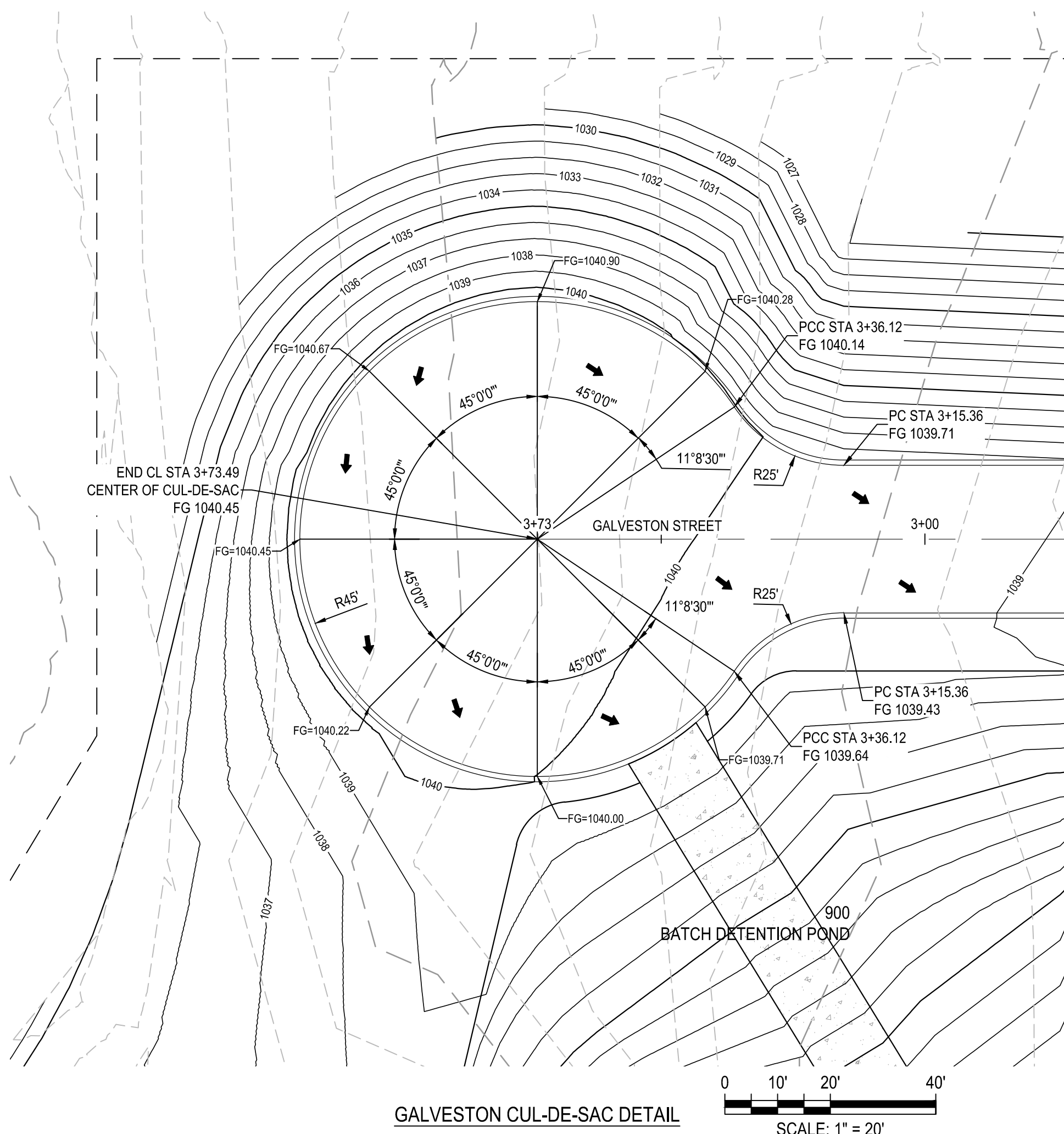
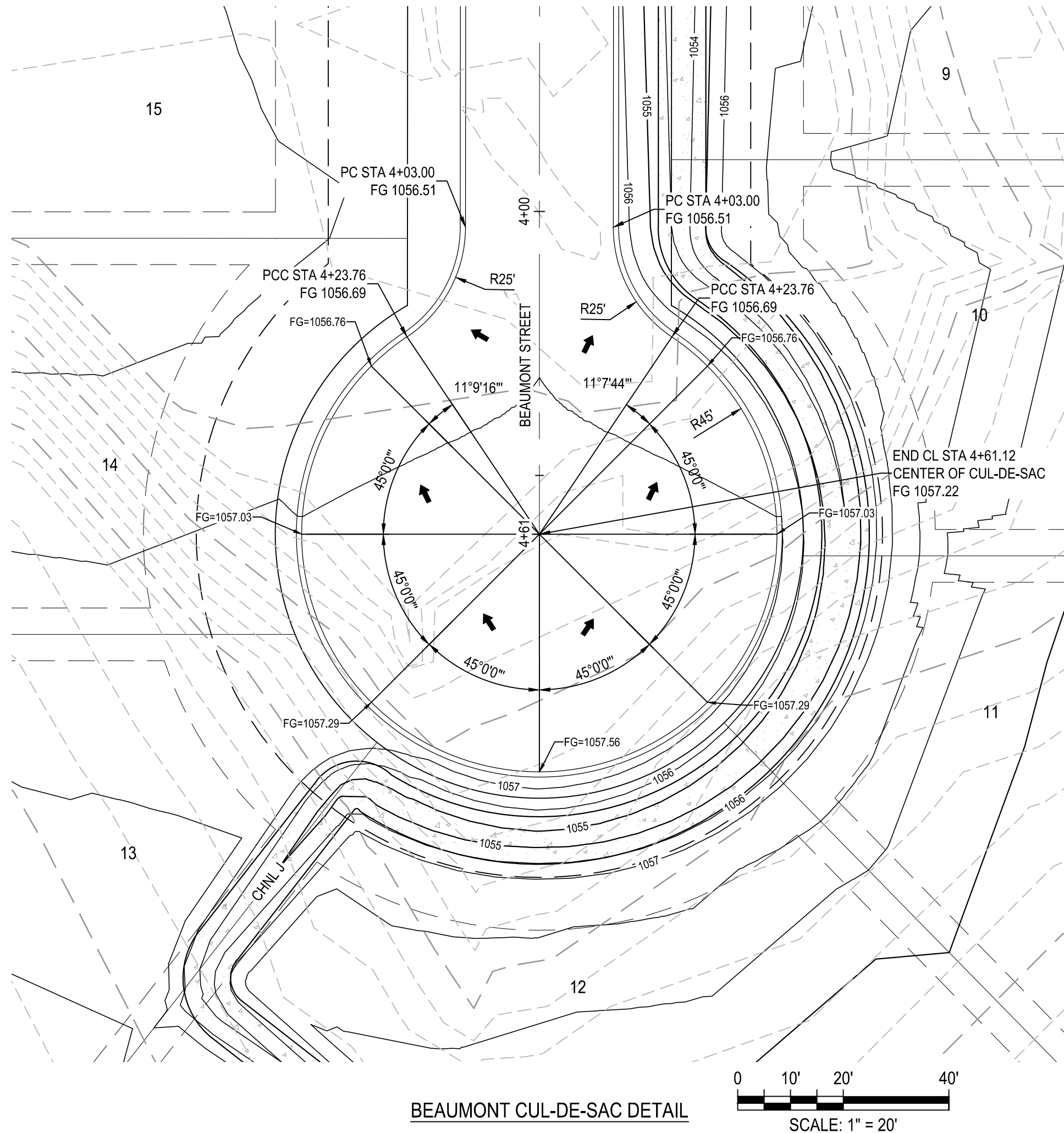
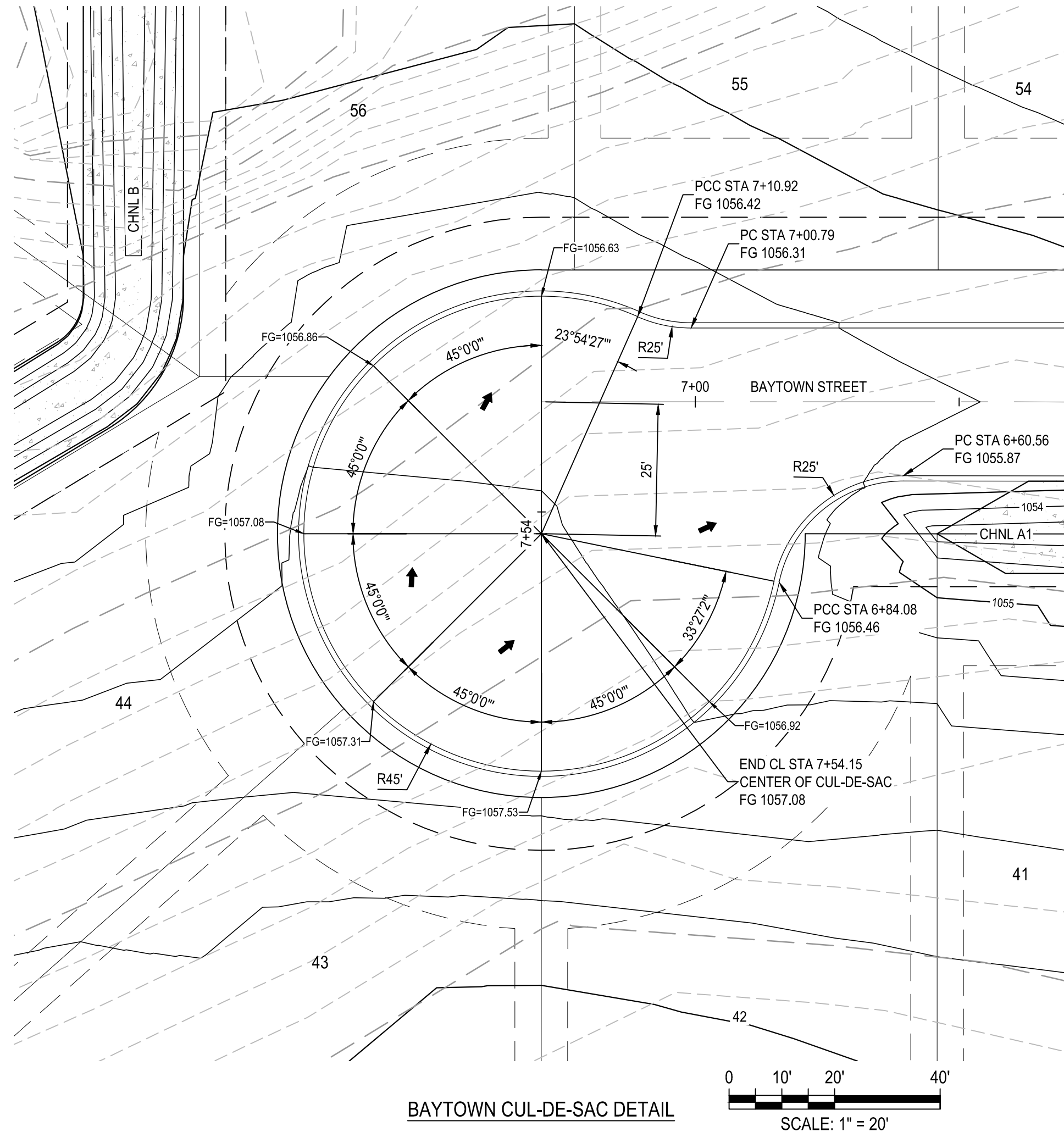
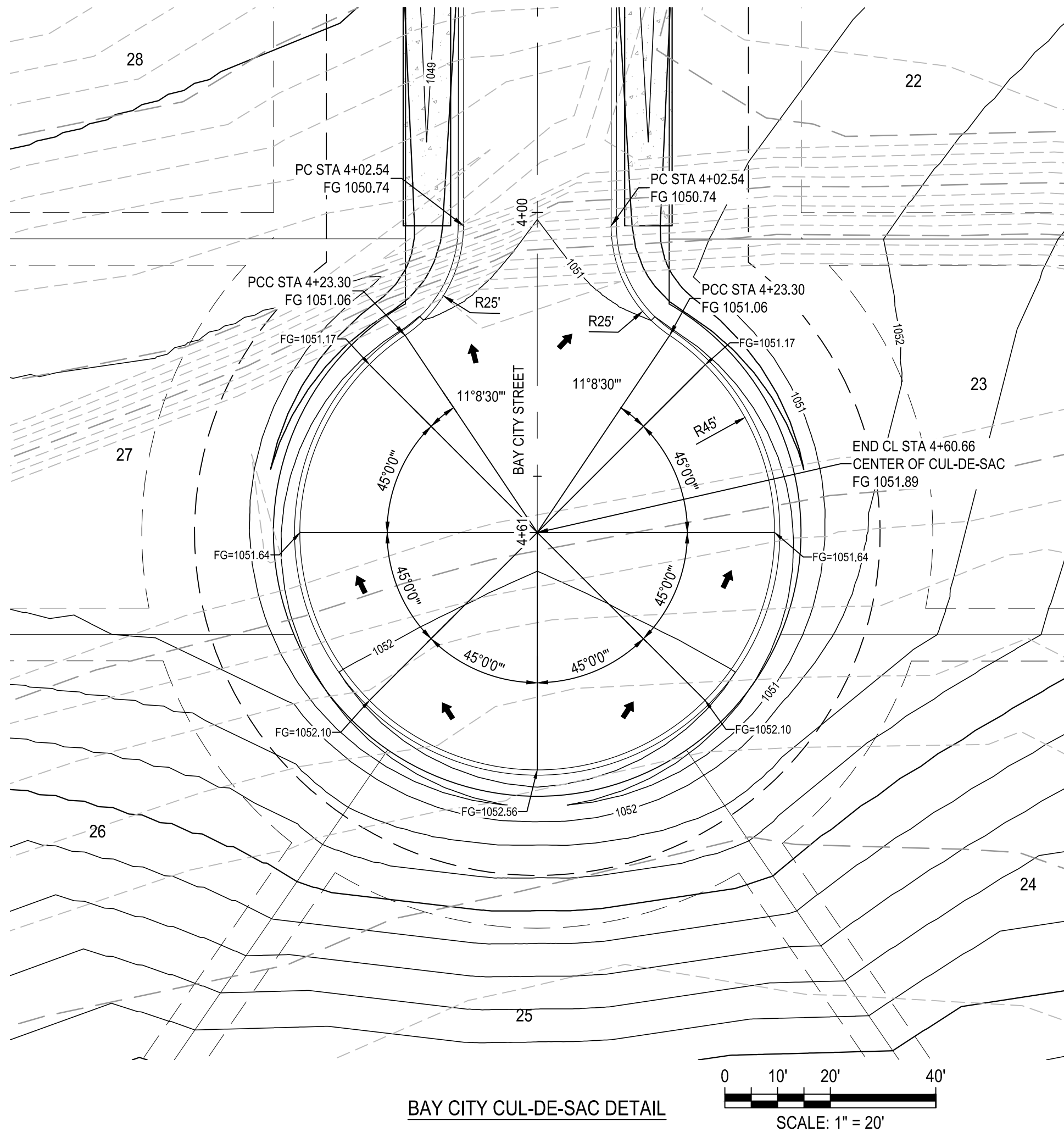


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DATE
REV
DESCRIPTION



G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Shts\38 STREET & DRAINAGE DETAILS.swg Layout: STREET & DRAINAGE DETAILS (SHEET 4) Plotted: 5/2/2024 11:42:06 AM By: Rodriguez



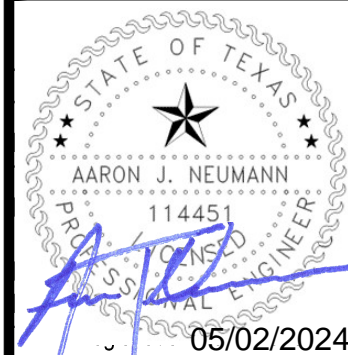
NOT FOR CONSTRUCTION

DATE	DESCRIPTION
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DESIGNED BY:	AGS
REVIEWED BY:	TR
DRAWN BY:	RA



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TYPE Registration No. F-1405

WIMBERLEY RIDGE
STREET & DRAINAGE DETAILS (SHEET 4)



05/02/2024

G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Sha\39 OVERALL UTILITY PLAN.dwg Layout: OVERALL UTILITY PLAN Plotted: 5/2/2024 11:42:34 AM By: Trodiguez

AQUA TEXAS GENERAL NOTES

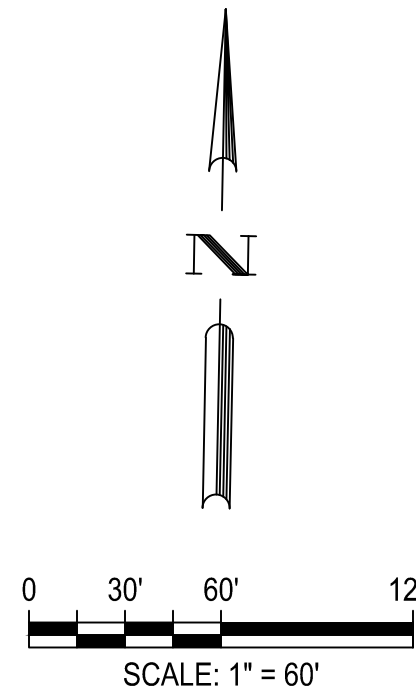
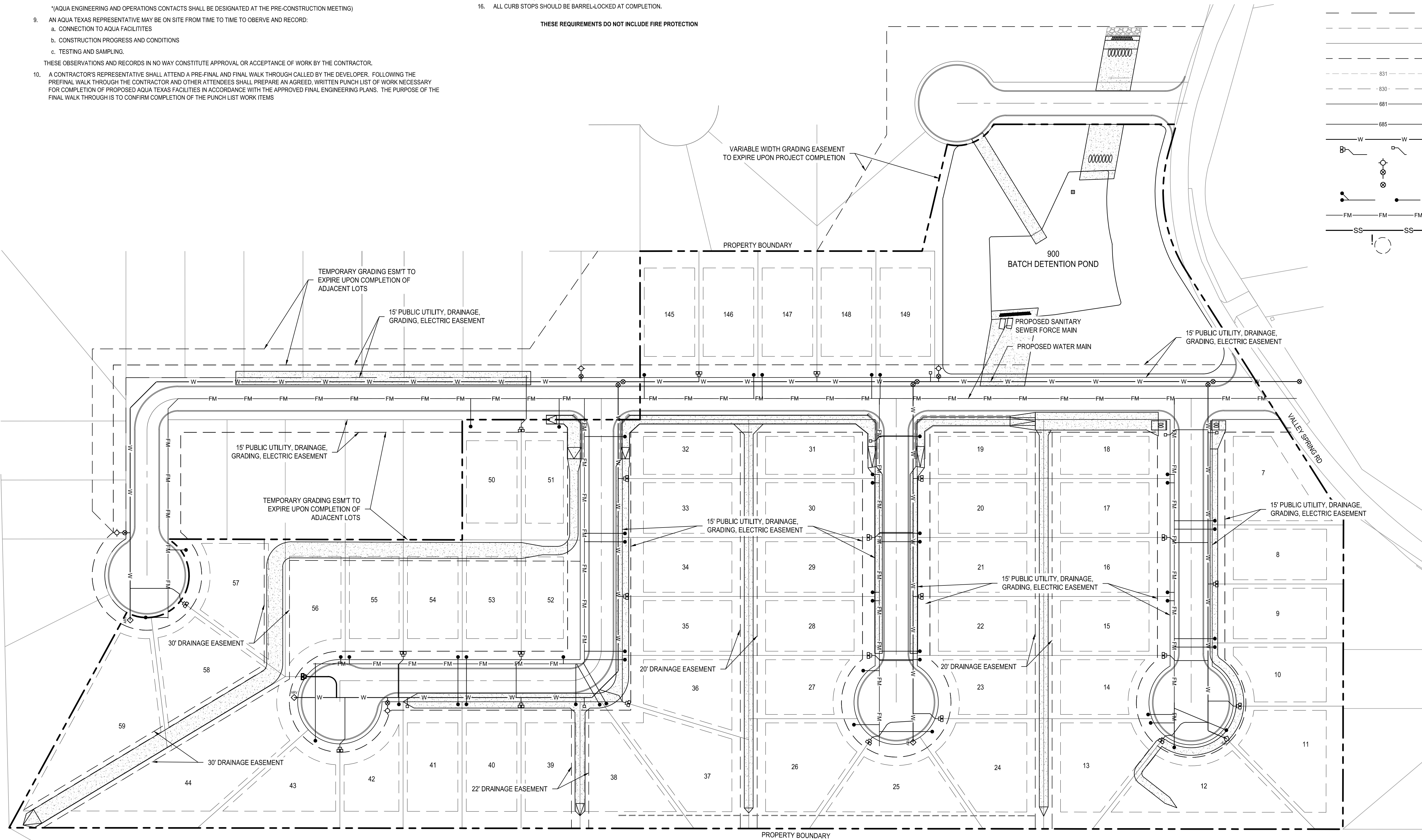
- PROPOSED AQUA TEXAS FACILITIES INCLUDE ITEMS OF THE PROPOSED WORK THE DEVELOPER PLANS TO CONVEY TO AQUA TEXAS TO OWN AND OPERATE UPON COMPLETION OF THE WORK AND AFTER SATISFYING CERTAIN OTHER REQUIREMENTS.
 - AQUA TEXAS HAS NO AGREEMENT OR CONTRACT WITH THE CONTRACTOR. THE PROPOSED AQUA TEXAS FACILITIES DESCRIBE ON THESE PLAN SHEETS ARE BEING CONSTRUCTED BY AND FOR THE BENEFIT OF THE PROJECT OWNER.
 - AQUA TEXAS HAS NOT PROVIDED REVIEW RELATED TO ITEMS OF WORK NOT RELATED TO PROPOSED OR EXISTING AQUA TEXAS FACILITIES OR CONTRACTORS' SAFETY PRECAUTIONS OR MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM THEIR WORK.
 - ANY CONTRACTOR(S) USING THESE DRAWINGS SHALL OBTAIN AND THEREAFTER KEEP IN FORCE THROUGH THE DURATION OF THAT USE CUSTOMARY AND APPROPRIATE INSURANCE COVERAGE, WHICH SHALL INCLUDE WORKERS COMPENSATION AND EMPLOYERS' LIABILITY, COMMERCIAL GENERAL LIABILITY, COMMERCIAL AUTOMOBILE LIABILITY, AND UMBRELLA LIABILITY. CERTIFICATE(S) OF INSURANCE BY THE INSURER(S) ISSUING THE POLICIES SHALL BE FILED WITH AQUA TEXAS PRIOR TO COMMENCING CONSTRUCTION OF AQUA TEXAS FACILITIES.
 - ANY CONTRACTOR(S) USING THESE DRAWINGS, BY SAID USE, SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS AQUA TEXAS, ITS OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, DEBTS, SUITS, CAUSES OF ACTION, LOSSES, DAMAGES, JUDGMENTS, FINES, PENALTIES, LIABILITIES, AND COSTS, INCLUDING REASONABLE ATTORNEY FEES AND DEFENSE COSTS (COLLECTIVELY "DAMAGES") INCURRED BY AQUA TEXAS ARISING OUT OF CONSTRUCTION OF THE AQUA TEXAS FACILITIES.
 - THE DEVELOPER, ENGINEER, OR CONTRACTOR SHALL CHAIR OR ATTEND A PRECONSTRUCTION MEETING WHICH INCLUDES AQUA TEXAS PERSONNEL. CONTACT AQUA TEXAS' BUSINESS DEVELOPMENT ENGINEER TO COORDINATE THE MEETING ATTENDANCE, SCHEDULE, AND CONTENT.
 - THE CONTRACTOR SHALL WORK WITH FINAL ENGINEERING PLANS MARKED TO INDICATE APPROVAL BY AQUA TEXAS' ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON HAND ANYTIME PROPOSED AQUA TEXAS FACILITIES ARE BEING CONSTRUCTED OR DISTURBED. AQUA TEXAS' APPROVAL SHOULD BE NOTED ON THE COVER SHEET ALONG WITH THE DATE THE PLANS WERE APPROVED.
 - NO PLAN CHANGES OR FIELD CHANGES RELATED TO THE CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF AN AQUA TEXAS ENGINEERING DEPARTMENT REPRESENTATIVE.
 - CONTRACTOR SHALL NOTIFY AQUA TEXAS 48 HOURS BEFORE:
 - BEGINNING CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES
NOTIFY: AQUA ENGINEERING AND AQUA OPERATIONS'
 - CONDUCTING REQUIRED SAMPLING OR TESTING
NOTIFY: AQUA OPERATIONS'
 - TAPPING, CONNECTING, MODIFYING OR IN ANY OTHER WAY DISTURBING AQUA TEXAS FACILITIES
NOTIFY: AQUA OPERATIONS'
- *(AQUA ENGINEERING AND OPERATIONS CONTACTS SHALL BE DESIGNATED AT THE PRE-CONSTRUCTION MEETING)
- AN AQUA TEXAS REPRESENTATIVE MAY BE ON SITE FROM TIME TO TIME TO OBSERVE AND RECORD:
 - CONNECTION TO AQUA FACILITIES
 - CONSTRUCTION PROGRESS AND CONDITIONS
 - TESTING AND SAMPLING.
- THESE OBSERVATIONS AND RECORDS IN NO WAY CONSTITUTE APPROVAL OR ACCEPTANCE OF WORK BY THE CONTRACTOR.
- A CONTRACTOR'S REPRESENTATIVE SHALL ATTEND A PRE-FINAL AND FINAL WALK THROUGH CALLED BY THE DEVELOPER. FOLLOWING THE PREFINAL WALK THROUGH THE CONTRACTOR AND OTHER ATTENDEES SHALL PREPARE AN AGREED, WRITTEN PUNCH LIST OF WORK NECESSARY FOR COMPLETION OF PROPOSED AQUA TEXAS FACILITIES IN ACCORDANCE WITH THE APPROVED FINAL ENGINEERING PLANS. THE PURPOSE OF THE FINAL WALK THROUGH IS TO CONFIRM COMPLETION OF THE PUNCH LIST WORK ITEMS

DEVELOPER PROJECTS - PROPOSED RESIDENTIAL SUBDIVISIONS

AQUA TEXAS SPECIFICATIONS FOR RESIDENTIAL SUBDIVISION
WATER DISTRIBUTION SYSTEMS:

- ALL WATER MAINS SHOULD BE PVC C909 WITH C909 RESTRAINING JOINTS.
- WATER LINES SHOULD BE LOCATED ALONG THE FRONT LOT LINE AND SHOULD BE IN A MINIMUM 15 FOOT DEDICATED EASEMENT.
- WATER MAINS SHOULD BE BEDDED IN SAND.
- ALL VALVES SHOULD BE "CLOSE - RIGHT".
- ALL VALVE COVERS SHOULD BE 36-48 SCREW TYPE WITH SURFACE CONCRETE PADS.
- MINIMUM PIPELINE COVER SHOULD BE 3 FEET BELOW NATURAL GRADE.
- WHEN THE WATER MAIN CROSSES OR RUNS PARALLEL WITHIN 3 FEET OF A DRAINAGE CULVERT OR DRAINAGE DITCH, THE WATER MAIN SHOULD BE 3 FEET BELOW THE DRAINAGE FACILITY FLOW LINE.
- WATER MAINS SHOULD BE LAID WITH TRACER WIRE AND HAVE TRACER WIRE STATIONS INSTALLED NO GREATER THAN 1,000 FEET APART.
- ALL LONG TAPS SHOULD BE INSTALLED IN A YELOMINE, PVC, OR STEEL SLEEVE.
- FLUSH HYDRANTS SHOULD MUELLER AND SHOULD INCLUDE AN ISOLATION VALVE ON THE LEAD.
- DEAD END WATER MAINS SHOULD INCLUDE A 2 INCH MAIN GUARD FLUSH ASSEMBLY.
- TAPPING SADDLES SHOULD BE FORD BRASS TAPPING SADDLES FOR PVC PIPE - ST1-XXX (STYLE "A"). CORP STOPS SHOULD BE FORD BRONZE.
- SINGLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1 1/2 INCH BLACK POLY. A FORD 1" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS.
- DOUBLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1 INCH BLACK POLY. 2 FORD 1" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS. LAKE PALESTINE MINIMUM POLY IS 2 INCH.
- SINGLE METER BOX - BLACK PLASTIC - "CARSON #00121013 METER BOX WITH SOLID LID, 2 SLOTS, 1-IN, 1-OUT, #012-12, MBC800121013" DOUBLE METER BOX - BLACK PLASTIC - "CARSON #00121013 METER BOX WITH SOLID LID, 3 SLOTS, 1-IN, 2-OUT, #012-12, MBC800121013"
- ALL CURB STOPS SHOULD BE BARREL LOCKED AT COMPLETION.

THESE REQUIREMENTS DO NOT INCLUDE FIRE PROTECTION



LEGEND

---	PROPERTY BOUNDARY
- - -	ACCESS EASEMENT
- - -	BUILDING SETBACK
- - -	PROPOSED LOT LINES
- - -	PROPOSED EASEMENT
- - -	EXISTING MINOR CONTOUR
- - -	EXISTING MAJOR CONTOUR
- - -	PROPOSED MINOR CONTOUR
- - -	PROPOSED MAJOR CONTOUR
- W - W -	PROPOSED WATER MAIN
- B - B -	DUAL/SINGLE WATER SERVICES
- F - F -	PROPOSED FIRE HYDRANT
- G - G -	PROPOSED GATE VALVE
- D - D -	DUAL/SINGLE WASTEWATER SERVICE
- FM - FM - FM -	PROPOSED FORCE MAIN
- SS - SS -	PROPOSED STORM SEWER MAIN
- U - U -	UTILITY CROSSING

NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

OVERALL UTILITY PLAN



05/02/2024

SHEET

42

DATE	DESCRIPTION
APR	
REV	
DESIGNED BY:	AGS
REVIEWED BY:	TR
DRAWN BY:	RA



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4. ANY CONTRACTOR(S) USING THESE DRAWINGS SHALL OBTAIN AND THEREAFTER KEEP IN FORCE THROUGH THE DURATION OF THAT USE CUSTOMARY AND APPROPRIATE INSURANCE COVERAGE, WHICH SHALL INCLUDE WORKERS COMPENSATION AND EMPLOYERS' LIABILITY, COMMERCIAL GENERAL LIABILITY, COMMERCIAL AUTOMOBILE LIABILITY, AND UMBRELLA LIABILITY. CERTIFICATE(S) OF INSURANCE BY THE INSURER(S) ISSUING THE POLICIES SHALL BE FILED WITH AQUA TEXAS PRIOR TO COMMENCING CONSTRUCTION OF AQUA TEXAS FACILITIES.
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8. NO PLAN CHANGES OR FIELD CHANGES RELATED TO THE CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF AN AQUA TEXAS ENGINEERING DEPARTMENT REPRESENTATIVE.
10. CONTRACTOR SHALL NOTIFY AQUA TEXAS 48 HOURS BEFORE:
 - a. BEGINNING CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES
NOTIFY: AQUA ENGINEERING AND AQUA OPERATIONS*
 - b. CONDUCTING REQUIRED SAMPLING OR TESTING
NOTIFY: AQUA OPERATIONS*
 - c. TAPPING, CONNECTING, MODIFYING OR IN ANY OTHER WAY DISTURBING AQUA TEXAS FACILITIES
NOTIFY: AQUA OPERATIONS*(*)AQUA ENGINEERING AND OPERATIONS CONTACTS SHALL BE DESIGNATED AT THE PRE-CONSTRUCTION MEETING)
9. AN AQUA TEXAS REPRESENTATIVE MAY BE ON SITE FROM TIME TO TIME TO OBSERVE AND RECORD:
 - a. CONNECTION TO AQUA FACILITIES
 - b. CONSTRUCTION PROGRESS AND CONDITIONS
 - c. TESTING AND SAMPLING.

10. A CONTRACTOR'S REPRESENTATIVE SHALL ATTEND A PRE-FINAL AND FINAL WALK THROUGH CALLED BY THE DEVELOPER. FOLLOWING THE PREFINAL WALK THROUGH THE CONTRACTOR AND OTHER ATTENDEES SHALL PREPARE AN AGREED, WRITTEN PUNCH LIST OF WORK NECESSARY FOR COMPLETION OF PROPOSED AQUA TEXAS FACILITIES IN ACCORDANCE WITH THE APPROVED FINAL ENGINEERING PLANS. THE PURPOSE OF THE FINAL WALK THROUGH IS TO CONFIRM COMPLETION OF THE PUNCH LIST WORK ITEMS

AQUA TEXAS SPECIFICATIONS FOR RESIDENTIAL SUBDIVISION
WATER DISTRIBUTION SYSTEMS:

1. ALL WATER MAINS SHOULD BE PVC C909 WITH C909 RESTRAINING JOINTS.
2. WATER LINES SHOULD BE LOCATED ALONG THE FRONT LOT LINE AND SHOULD BE IN A MINIMUM 15 FOOT DEDICATED EASEMENT.
3. WATER MAINS SHOULD BE BEDDED IN SAND.
4. ALL VALVES SHOULD BE "CLOSE - RIGHT."
5. ALL VALVE COVERS SHOULD BE 36-48 SCREW TYPE WITH SURFACE CONCRETE PADS.
6. MINIMUM PIPELINE COVER SHOULD BE 3 FEET BELOW NATURAL GRADE.
7. WHEN THE WATER MAIN CROSSES OR RUNS PARALLEL WITHIN THREE FEET OF A DRAINAGE CULVERT OR DRAINAGE DITCH, THE WATER MAIN SHOULD BE 3 FEET BELOW THE DRAINAGE FACILITY FLOW LINE.
8. WATER MAINS SHOULD BE LAID WITH TRACER WIRE AND HAVE TRACER WIRE STATIONS INSTALLED NO GREATER THAN 1,000 FEET APART.
9. ALL LONG TAPS SHOULD BE INSTALLED IN A YELOMINE, PVC, OR STEEL SLEEVE.
10. FLUSH HYDRANTS SHOULD MUELLER AND SHOULD INCLUDE AN ISOLATION VALVE ON THE LEAD.
11. DEAD END WATER MAINS SHOULD INCLUDE A 2 INCH MAIN GUARD FLUSH ASSEMBLY.
12. TAPPING SADDLES SHOULD BE FORD BRASS TAPPING SADDLES FOR PVC PIPE - S71-XXX (STYLE "A"), CORP STOPS SHOULD BE FORD BRONZE.
13. SINGLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1' INCH BLACK POLY 2 FORD 1/2" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS.
14. DOUBLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1' INCH BLACK POLY 2 FORD 1/2" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS. LAKE PALESTINE MINIMUM POLY IS 2 INCH.
15. SINGLE METER BOX - BLACK PLASTIC - "CARSON 00121013 METER BOX WITH SOLID LID, 2 SLOTS, 1-1/2" OUT, #12-12, MCB00121013" DOUBLE METER BOX - BLACK PLASTIC - "CARSON 000121013 METER BOX WITH SOLID LID, 3 SLOTS, 1-1/2" OUT, #12-12, MCB00121013"
16. ALL CURB STOPS SHOULD BE BARREL-LOCKED AT COMPLETION.

GENERAL UTILITY LOCATION NOTES:
TYPICAL QUALITY LEVEL OF THE UTILITY INFORMATION SHOWN ON THESE PLANS IS SHOWN IN THE TABLE BELOW. SPECIFIC NOTES ON THE PLANS INDICATE LOCATIONS WHERE THE UTILITY INFORMATION SHOWN IS KNOWN TO FALL SHORT OF OR EXCEED THE STATED QUALITY LEVEL.

SANITARY SEWER MAINS QL: _____ D
WATER DISTRIBUTION MAINS QL: _____ C
ABANDONED MAINS QL: _____ D
NATURAL GAS MAINS QL: _____ D
UNDERGROUND CATV LINES QL: _____ C
UNDERGROUND TELECOMMUNICATION LINES QL: _____ D
ALL UNDERGROUND UTILITY SERVICE LINES QL: _____ D

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEST-113-1, TEST-114-1, TEST-115-1. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF SAN MARCOS. A MINIMUM OF TEN (10) TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF SAN MARCOS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

[illegible]

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| <p>NOTE:</p> <ol style="list-style-type: none"> 1. SEE SHEETS 45 - 47 FOR UTILITY DETAILS 2. ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO ELECTRIC PLANS FOR FULL ELECTRIC LAYOUT. | <p>NOTE:</p> <p>IF THE MAXIMUM STATIC PRESSURE EXCEEDS 80 PSI, A PRV WILL BE REQUIRED ON THE PROPERTY OWNER'S SIDE OF THE WATER METER.</p> |
|--|--|

NOTE:
IF THE MAXIMUM STATIC PRESSURE
EXCEEDS 80 PSI, A PRV WILL BE
REQUIRED ON THE PROPERTY
OWNER'S SIDE OF THE WATER METER.



G:\TXC\Projects\Impact Commercial Services\12184-00 - Wimberley Ridge\03_CADD\01_Shts\41 FORCE MAIN SANITARY SEWER PLAN.dwg Layout: FORCE MAIN SANITARY SEWER PLAN Plot: 5/2/2024 11:43:33 AM By: Trogdiguez

AQUA TEXAS GENERAL NOTES

- PROPOSED AQUA TEXAS FACILITIES INCLUDE ITEMS OF THE PROPOSED WORK THE DEVELOPER PLANS TO CONVEY TO AQUA TEXAS TO OWN AND OPERATE UPON COMPLETION OF THE WORK AND AFTER SATISFYING CERTAIN OTHER REQUIREMENTS.
- AQUA TEXAS HAS NO AGREEMENT OR CONTRACT WITH THE CONTRACTOR. THE PROPOSED AQUA TEXAS FACILITIES DESCRIBE ON THESE PLAN SHEETS ARE BEING CONSTRUCTED BY AND FOR THE BENEFIT OF THE PROJECT OWNER.
- AQUA TEXAS HAS NOT PROVIDED REVIEW RELATED TO ITEMS OF WORK NOT RELATED TO PROPOSED OR EXISTING AQUA TEXAS FACILITIES OR CONTRACTORS' SAFETY PRECAUTIONS OR MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM THEIR WORK.
- ANY CONTRACTOR(S) USING THESE DRAWINGS SHALL OBTAIN AND THEREAFTER KEEP IN FORCE THROUGH THE DURATION OF THAT USE CUSTOMARY AND APPROPRIATE INSURANCE COVERAGE, WHICH SHALL INCLUDE WORKERS COMPENSATION AND EMPLOYERS' LIABILITY, COMMERCIAL GENERAL LIABILITY, COMMERCIAL AUTOMOBILE LIABILITY, AND UMBRELLA LIABILITY. CERTIFICATE(S) OF INSURANCE BY THE INSURER(S) ISSUING THE POLICIES SHALL BE FILED WITH AQUA TEXAS PRIOR TO COMMENCING CONSTRUCTION OF AQUA TEXAS FACILITIES.
- ANY CONTRACTOR(S) USING THESE DRAWINGS, BY SAID USE, SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS AQUA TEXAS, ITS OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS FROM AND AGAINST ANY AND ALL CLAIMS, DEMANDS, DEBTS, SUITS, CAUSES OF ACTION, LOSSES, DAMAGES, JUDGMENTS, FINES, PENALTIES, LIABILITIES, AND COSTS, INCLUDING REASONABLE ATTORNEY FEES AND DEFENSE COSTS (COLLECTIVELY "DAMAGES") INCURRED BY AQUA ARISING OUT OF CONSTRUCTION OF THE AQUA TEXAS FACILITIES.
- THE DEVELOPER, ENGINEER, OR CONTRACTOR SHALL CHAIR OR ATTEND A PRECONSTRUCTION MEETING WHICH INCLUDES AQUA TEXAS PERSONNEL. CONTACT AQUA TEXAS' BUSINESS DEVELOPMENT ENGINEER TO COORDINATE THE MEETING ATTENDANCE, SCHEDULE, AND CONTENT.
- THE CONTRACTOR SHALL WORK WITH FINAL ENGINEERING PLANS MARKED TO INDICATE APPROVAL BY AQUA TEXAS' ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL HAVE APPROVED PLANS ON HAND ANYTIME PROPOSED AQUA TEXAS FACILITIES ARE BEING CONSTRUCTED OR DISTURBED. AQUA TEXAS' APPROVAL SHOULD BE NOTED ON THE COVER SHEET ALONG WITH THE DATE THE PLANS WERE APPROVED.
- NO PLAN CHANGES OR FIELD CHANGES RELATED TO THE CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF AN AQUA TEXAS ENGINEERING DEPARTMENT REPRESENTATIVE.
- CONTRACTOR SHALL NOTIFY AQUA TEXAS 48 HOURS BEFORE:
 - BEGINNING CONSTRUCTION OF PROPOSED AQUA TEXAS FACILITIES
NOTIFY: AQUA ENGINEERING AND AQUA OPERATIONS*
 - CONDUCTING REQUIRED SAMPLING OR TESTING
NOTIFY: AQUA OPERATIONS*
 - TAPPING, CONNECTING, MODIFYING OR IN ANY OTHER WAY DISTURBING AQUA TEXAS FACILITIES
NOTIFY: AQUA OPERATIONS*

THESE OBSERVATIONS AND RECORDS IN NO WAY CONSTITUTE APPROVAL OR ACCEPTANCE OF WORK BY THE CONTRACTOR.

- A CONTRACTOR'S REPRESENTATIVE SHALL ATTEND A PRE-FINAL AND FINAL WALK THROUGH CALLED BY THE DEVELOPER. FOLLOWING THE PRE-FINAL WALK THROUGH THE CONTRACTOR AND OTHER ATTENDEES SHALL PREPARE AN AGREED, WRITTEN PUNCH LIST OF WORK NECESSARY FOR COMPLETION OF PROPOSED AQUA TEXAS FACILITIES IN ACCORDANCE WITH THE APPROVED FINAL ENGINEERING PLANS. THE PURPOSE OF THE FINAL WALK THROUGH IS TO CONFIRM COMPLETION OF THE PUNCH LIST WORK ITEMS

DEVELOPER PROJECTS - PROPOSED RESIDENTIAL SUBDIVISIONS

AQUA TEXAS SPECIFICATIONS FOR RESIDENTIAL SUBDIVISION WATER DISTRIBUTION SYSTEMS:

- ALL WATER MAINS SHOULD BE PVC C909 WITH C909 RESTRAINING JOINTS.
- WATER LINES SHOULD BE LOCATED ALONG THE FRONT LOT LINE AND SHOULD BE IN A MINIMUM 15 FOOT DEDICATED EASEMENT.
- WATER MAINS SHOULD BE BEDDED IN SAND.
- ALL VALVES SHOULD BE "CLOSE - RIGHT."
- ALL VALVE COVERS SHOULD BE 36-48 SCREW TYPE WITH SURFACE CONCRETE PADS.
- MINIMUM PIPELINE COVER SHOULD BE 3 FEET BELOW NATURAL GRADE.
- WHEN THE WATER MAIN CROSSES OR RUNS PARALLEL WITHIN 3 FEET OF A DRAINAGE CULVERT OR DRAINAGE DITCH, THE WATER MAIN SHOULD BE 3 FEET BELOW THE DRAINAGE FACILITY FLOW LINE.
- WATER MAINS SHOULD BE LAID WITH TRACER WIRE AND HAVE TRACER WIRE STATIONS INSTALLED NO GREATER THAN 1,000 FEET APART.
- ALL LONG TAPS SHOULD BE INSTALLED IN A YELOMINE, PVC, OR STEEL SLEEVE.
- FLUSH HYDRANTS SHOULD MUELLER AND SHOULD INCLUDE AN ISOLATION VALVE ON THE LEAD.
- DEAD END WATER MAINS SHOULD INCLUDE A 2 INCH MAIN GUARD FLUSH ASSEMBLY.
- TAPPING SADDLES SHOULD BE FORD BRASS TAPPING SADDLES FOR PVC PIPE - S71-XXX (STYLE "A"). CORP STOPS SHOULD BE FORD BRONZE.
- SINGLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1 1/2 INCH BLACK POLY. A FORD 1" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS.
- DOUBLE SERVICES SHOULD BE LOCATED ON PROPERTY CORNERS AND SHOULD BE A MINIMUM OF 1 INCH BLACK POLY. 2 FORD 1" x 3/4" ANGLE CURB STOPS WITH LOCKING EARS. LAKE PALESTINE MINIMUM POLY IS 2 INCH.
- SINGLE METER BOX - BLACK PLASTIC - "CARSON #00121013 METER BOX WITH SOLID LID, 2 SLOTS, 1-IN, 1-OUT, #012-12, MBCB00121013" DOUBLE METER BOX - BLACK PLASTIC - "CARSON #00121013 METER BOX WITH SOLID LID, 3 SLOTS, 1-IN, 2-OUT, #012-12, MBCB00121013"
- ALL CURB STOPS SHOULD BE BARREL-LOCKED AT COMPLETION.

THESE REQUIREMENTS DO NOT INCLUDE FIRE PROTECTION

GENERAL UTILITY LOCATION NOTES:

TYPICAL QUALITY LEVEL OF THE UTILITY INFORMATION SHOWN ON THESE PLANS IS SHOWN IN THE TABLE BELOW. SPECIFIC NOTES ON THE PLANS INDICATE LOCATIONS WHERE THE UTILITY INFORMATION SHOWN IS KNOWN TO FALL SHORT OF OR EXCEED THE STATED QUALITY LEVEL.

SANITARY SEWER MAINS QL: C
WATER DISTRIBUTION MAINS QL: D
ABANDONED MAINS QL: D
NATURAL GAS MAINS QL: D
UNDERGROUND CATV LINES QL: C
UNDERGROUND TELECOMMUNICATION LINES QL: D
ALL UNDERGROUND UTILITY SERVICE LINES QL: D

UTILITY TRENCH COMPACTION

ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF SAN MARCOS STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF SAN MARCOS STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

NOTE:

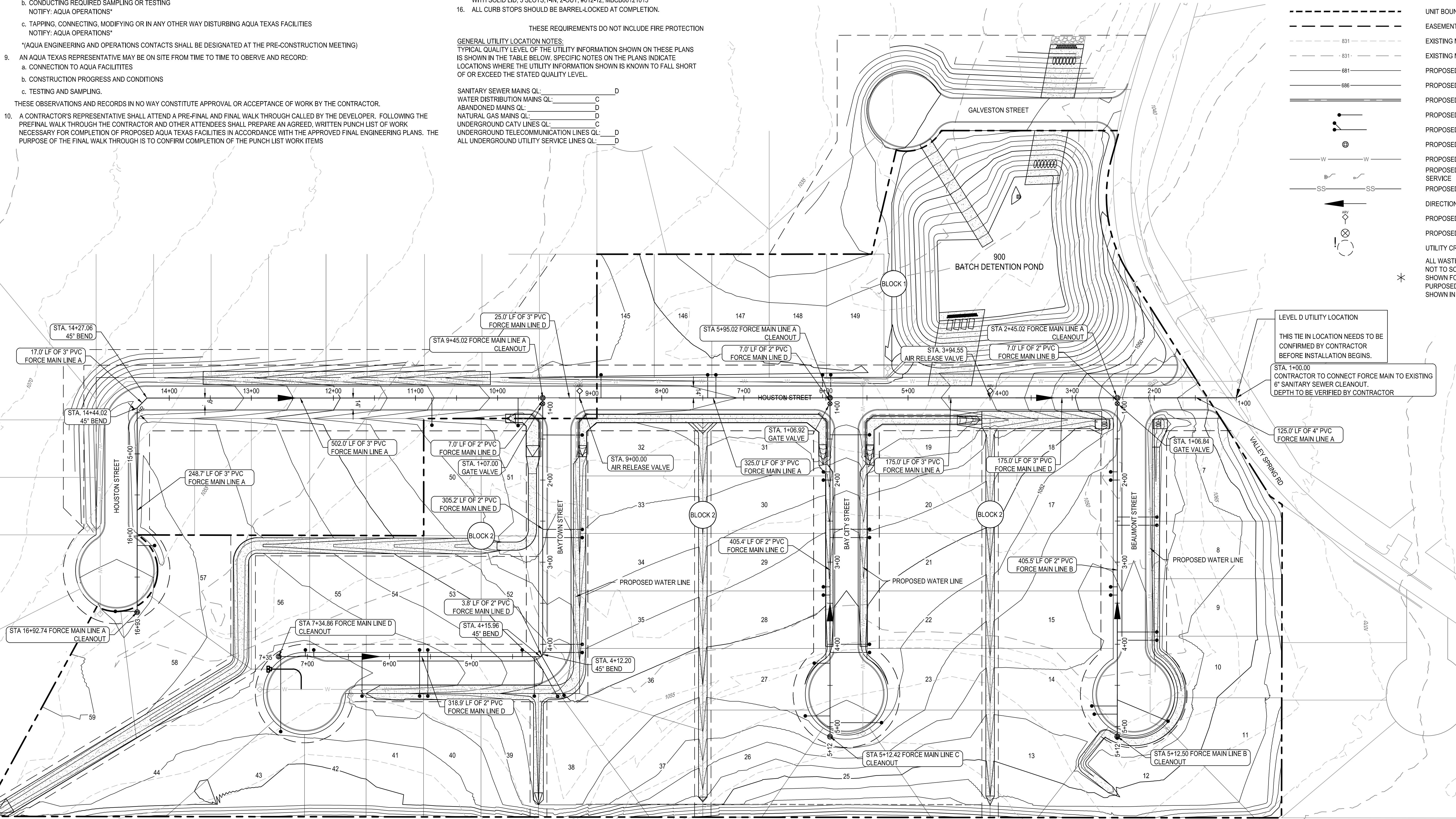
- SEE SHEETS 45 - 47 FOR UTILITY DETAILS
- ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO ELECTRIC PLANS FOR FULL ELECTRIC LAYOUT.



0 30' 60' 120'
SCALE: 1" = 60'

LEGEND

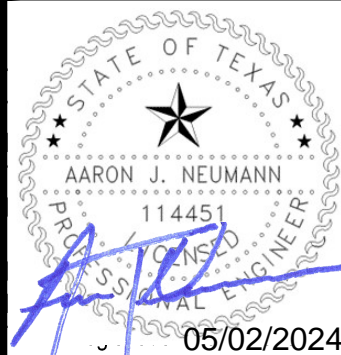
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 - UNIT BOUNDARY
 - EASEMENT
 - EXISTING MINOR CONTOUR
 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR
 - PROPOSED FORCE MAIN
 - PROPOSED SINGLE FORCEMAIN SERVICE
 - PROPOSED DOUBLE FORCEMAIN SERVICE
 - PROPOSED FORCEMAIN CLEANOUT
 - PROPOSED WATER LINE
 - PROPOSED SINGLE/DOUBLE WATER SERVICE
 - PROPOSED STORM LINE
 - DIRECTION OF FLOW
 - PROPOSED AIR RELEASE VALVE
 - PROPOSED GATE VALVE
 - UTILITY CROSSING
- ALL WASTEWATER SYMBOLS ARE NOT TO SCALE, AND ARE ONLY SHOWN FOR ILLUSTRATION PURPOSED. REFER TO DETAILS SHOWN IN THIS PLAN SET.



NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

FORCE MAIN SANITARY SEWER PLAN



05/02/2024

SHEET

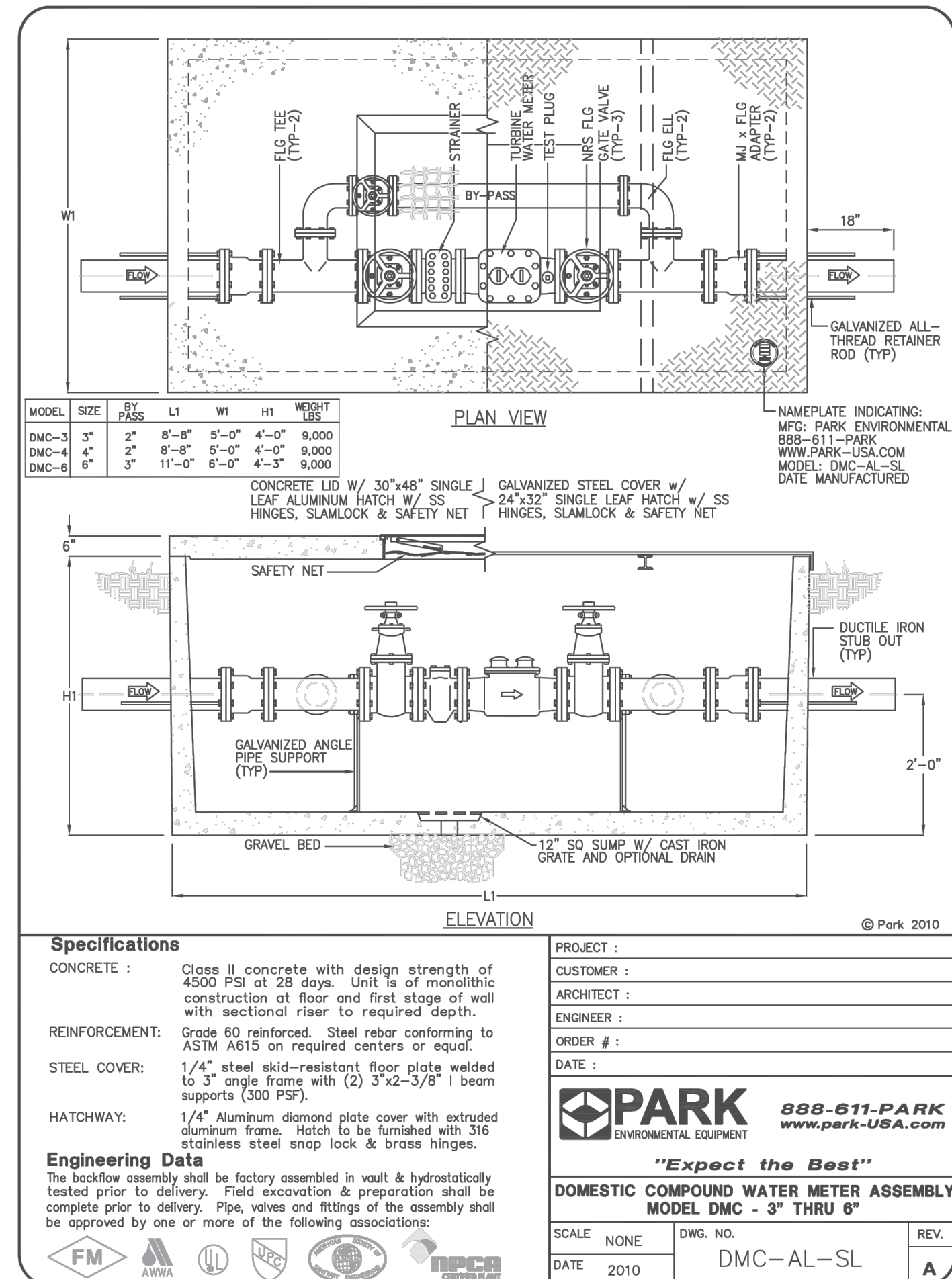
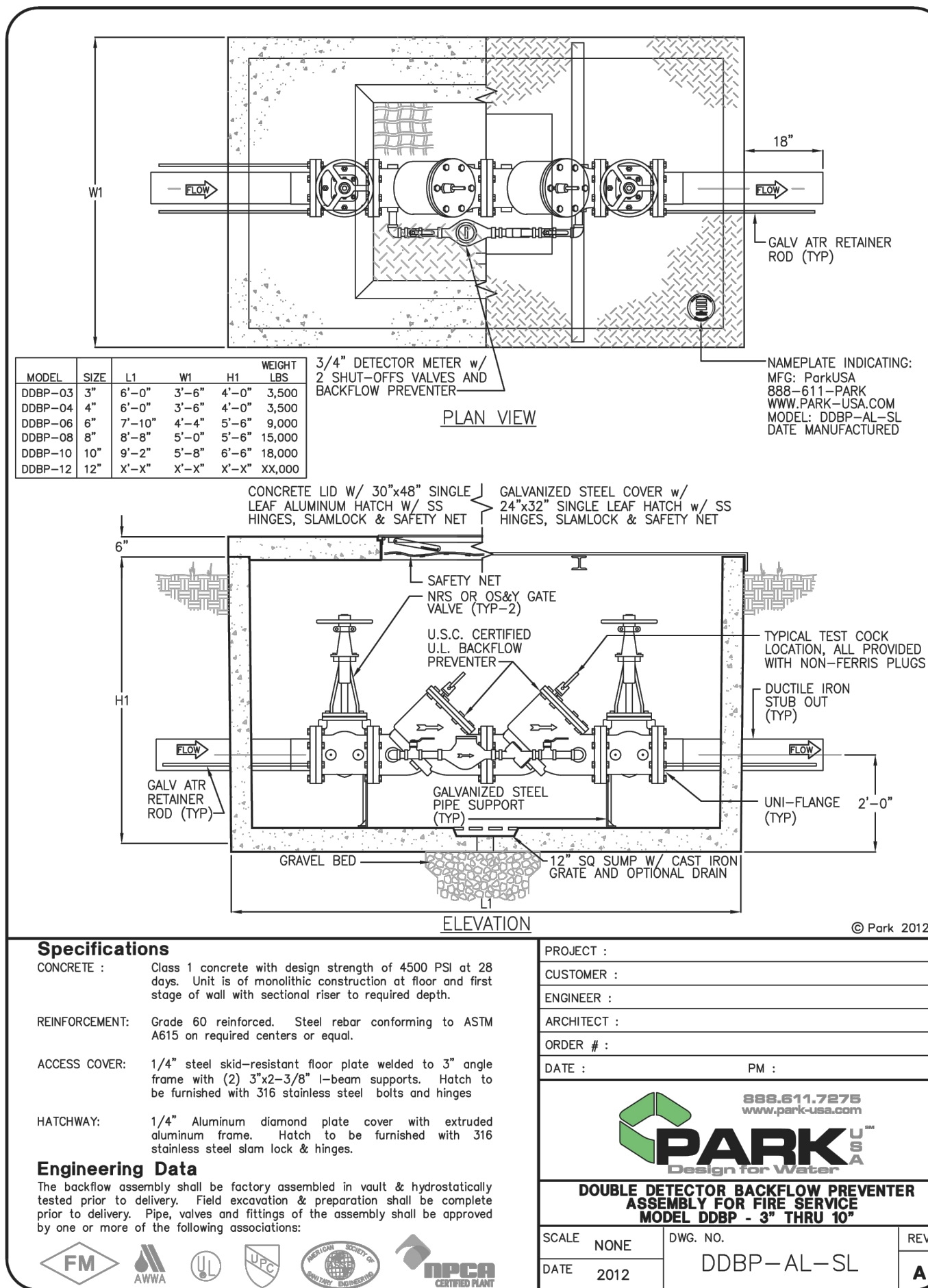
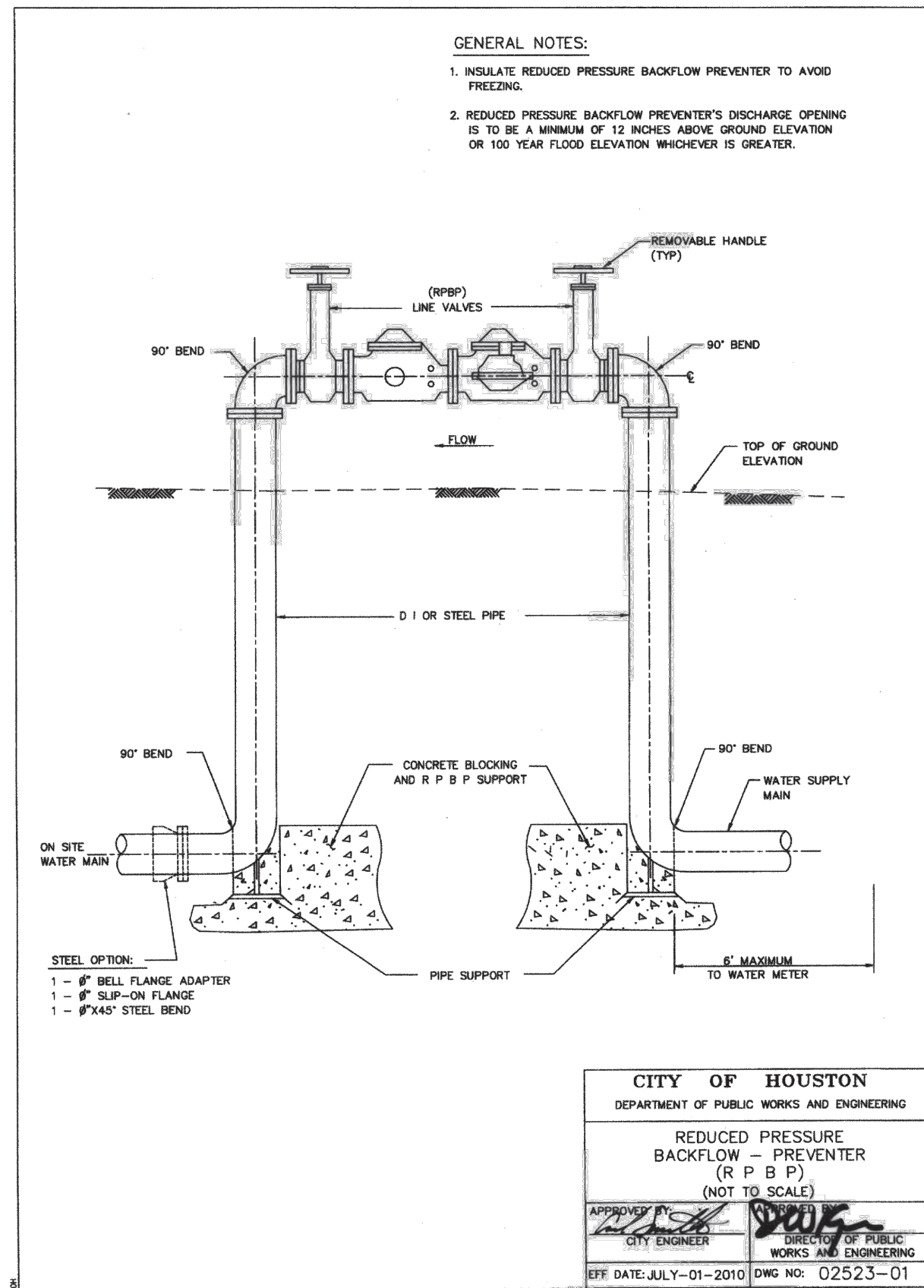
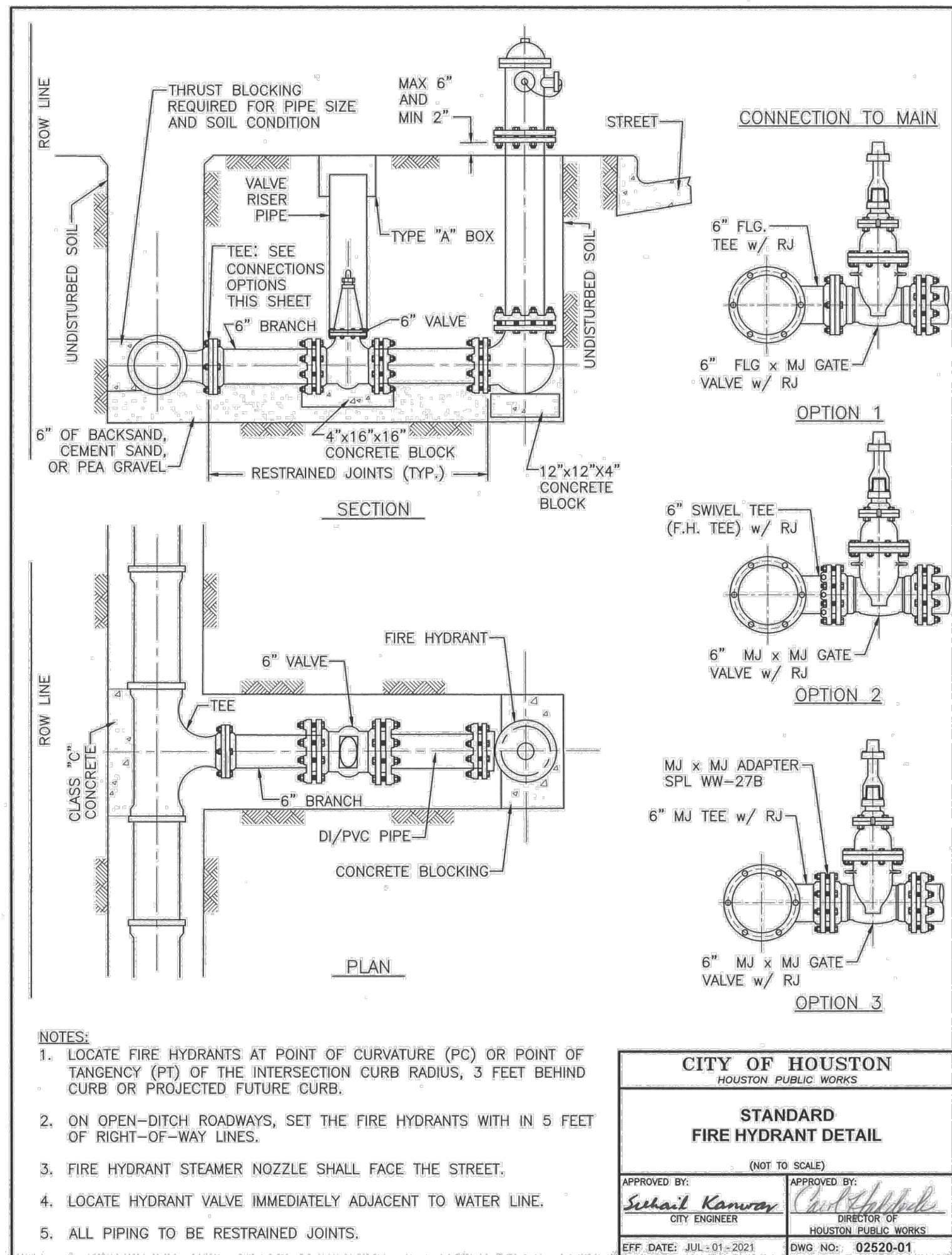
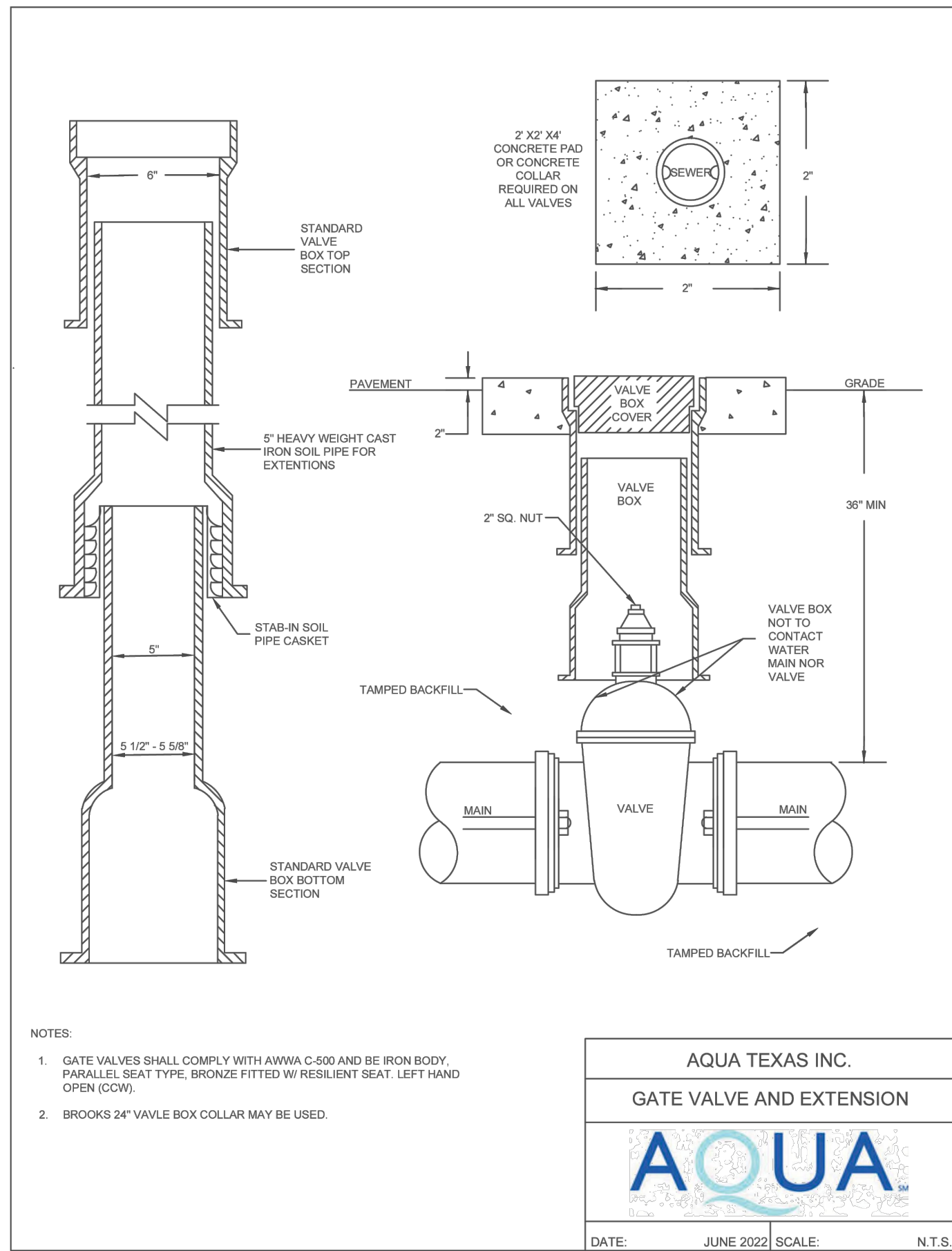
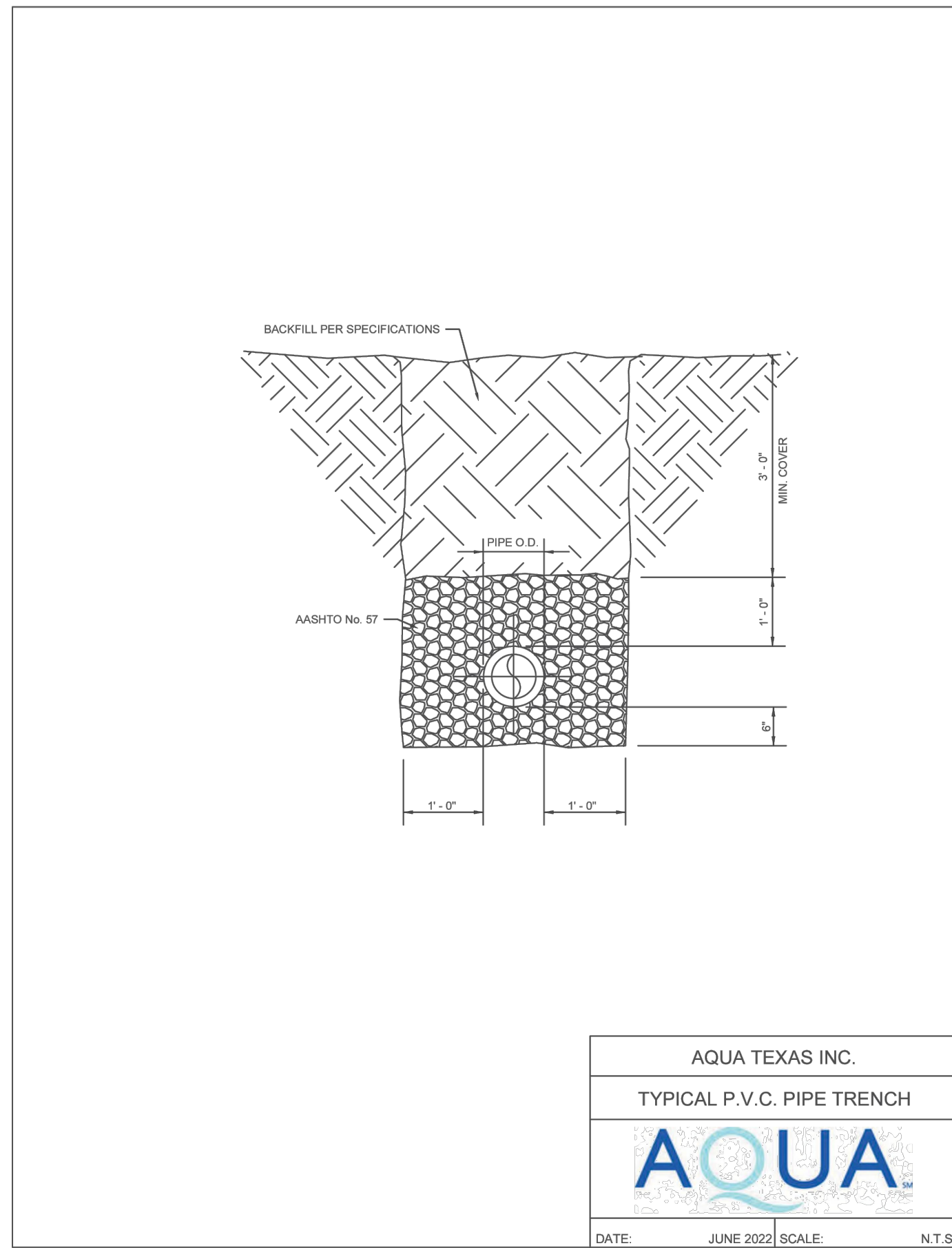
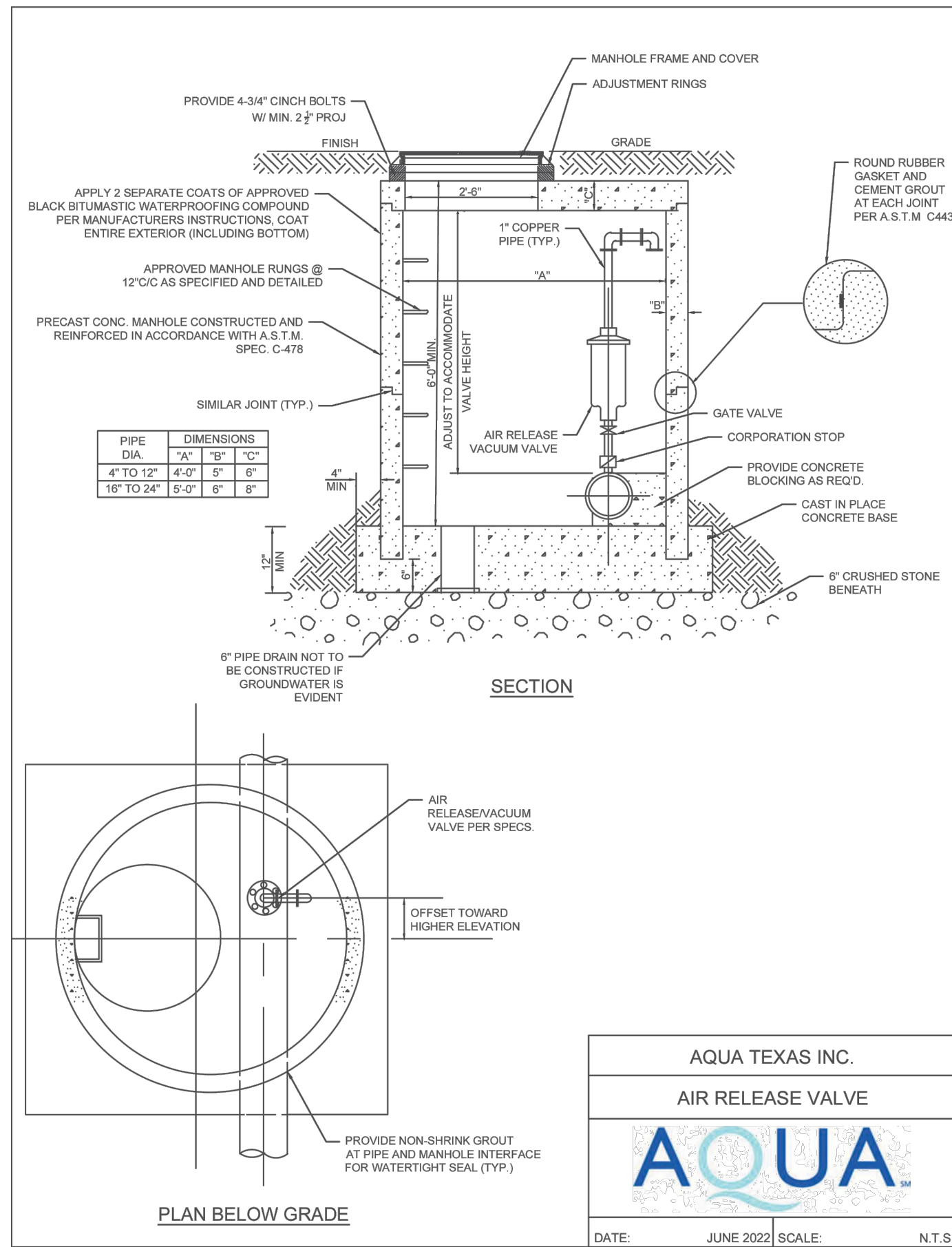
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REVIEWED BY:	TR
DRAWN BY:	RA
DATE	APR
DESCRIPTION	

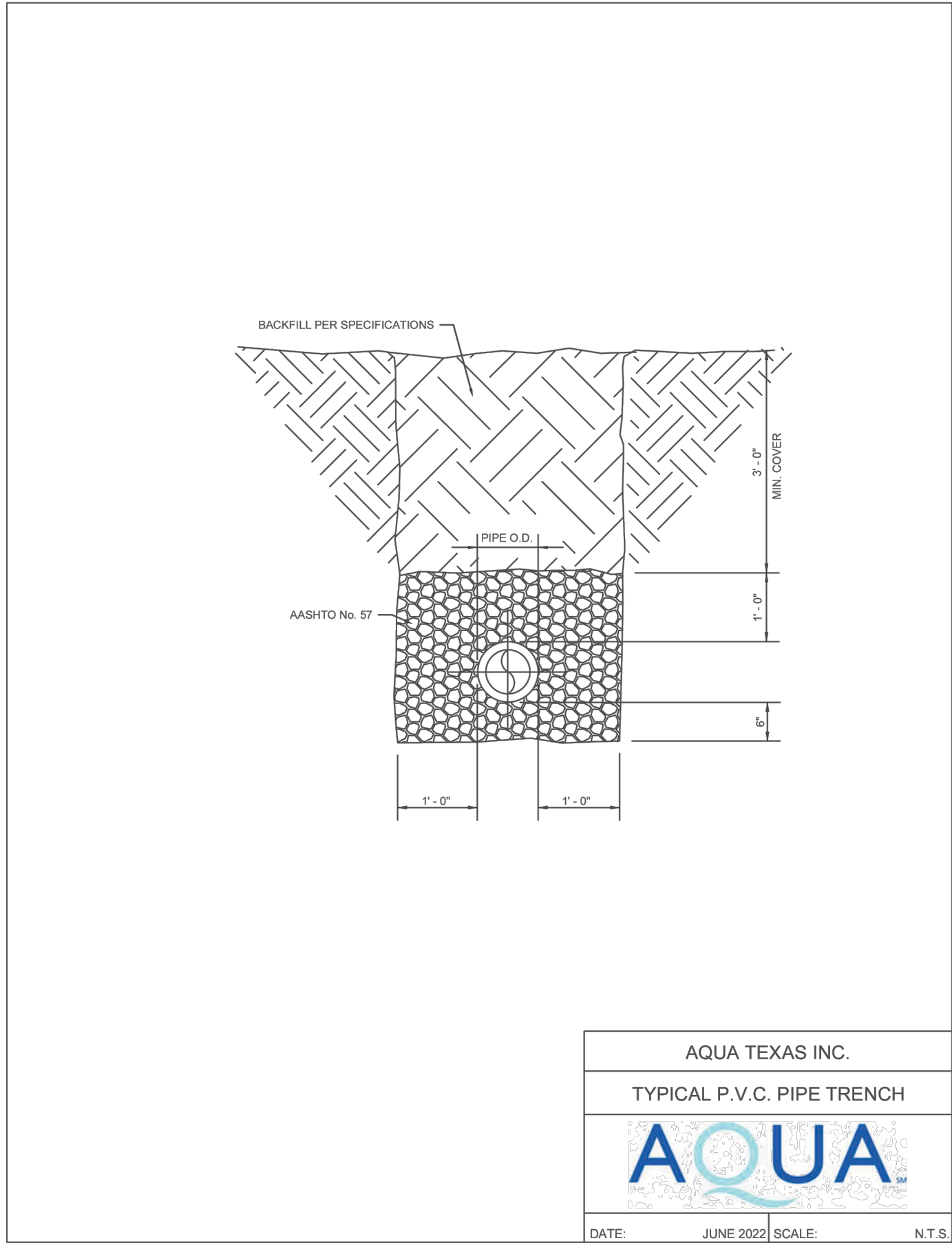
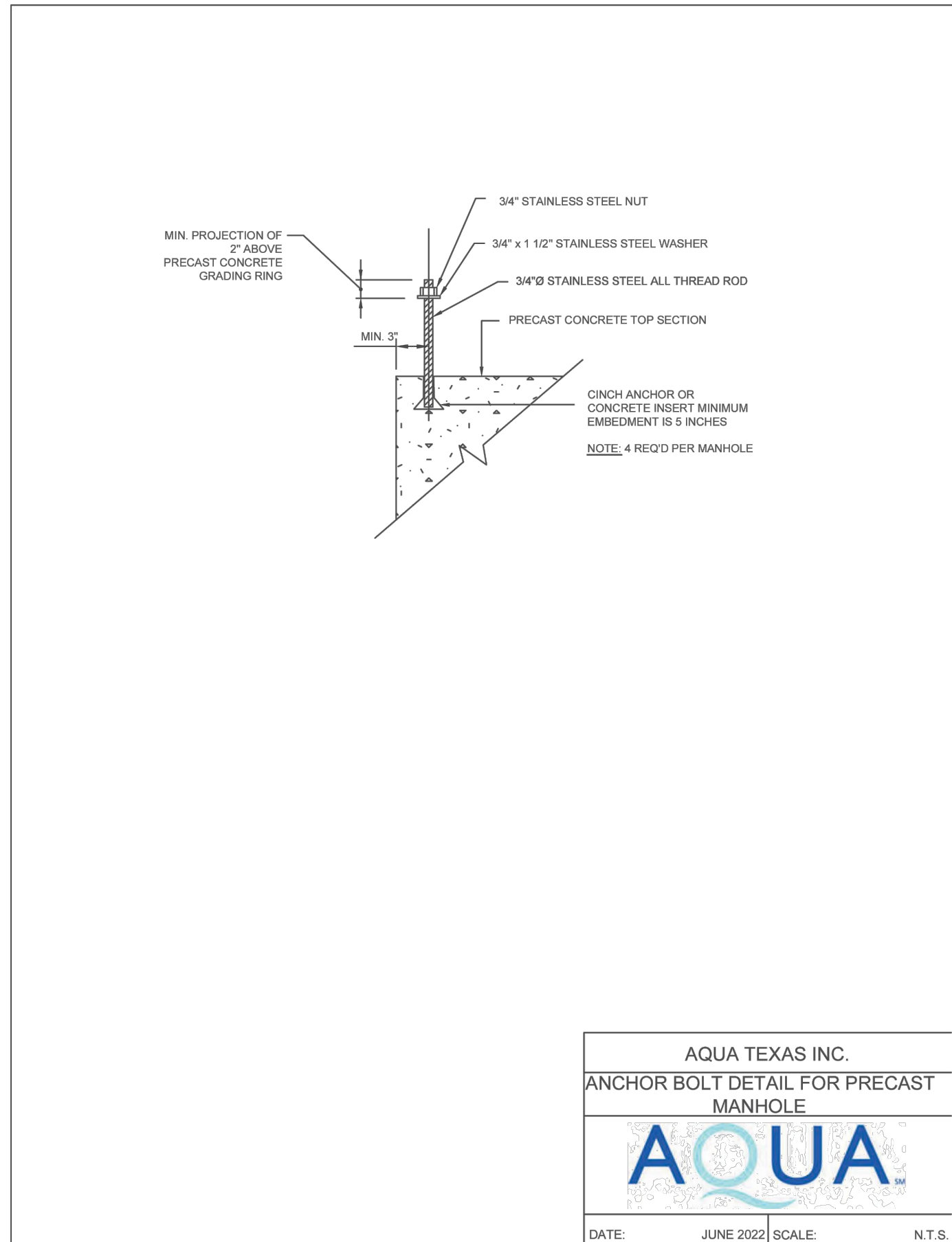
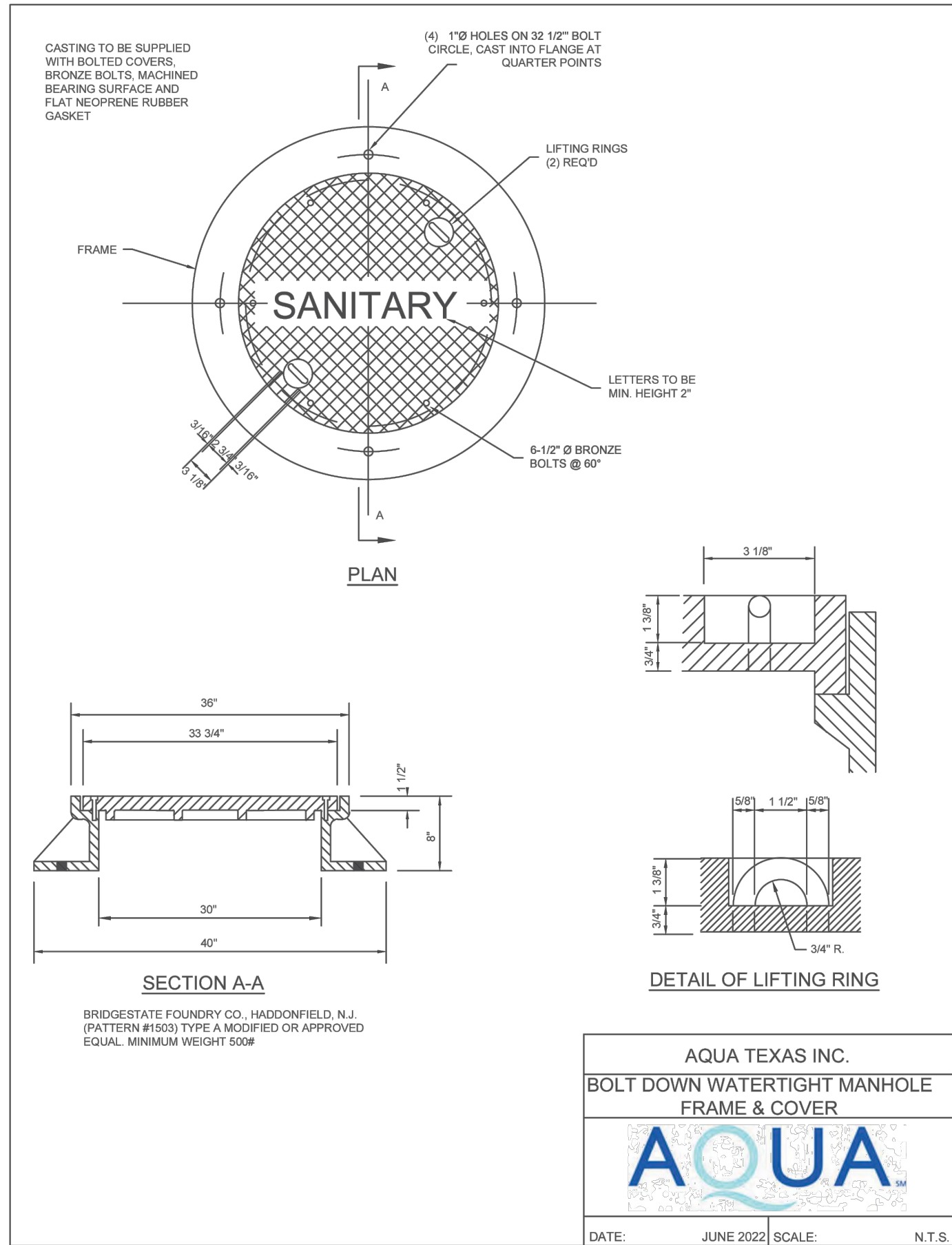
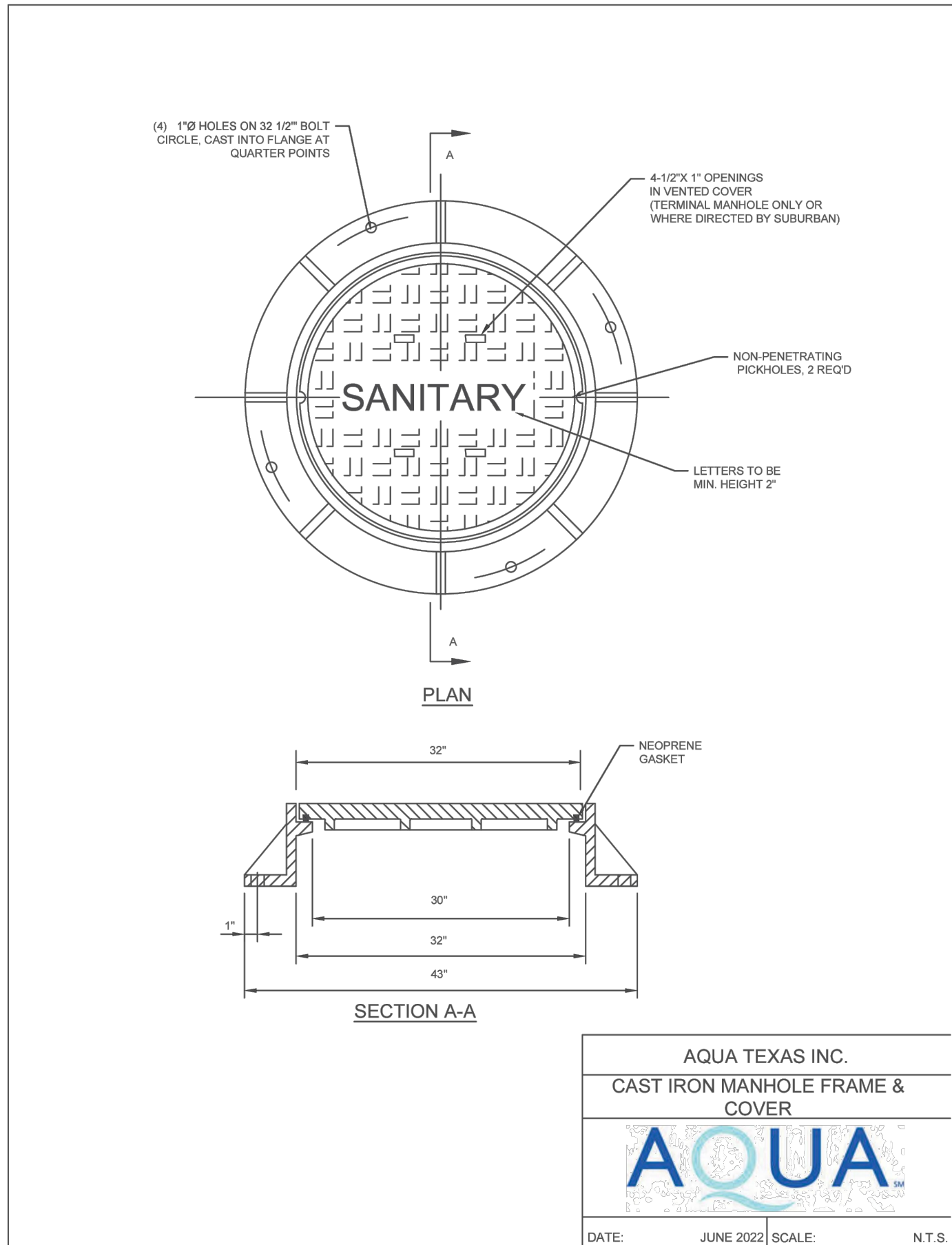
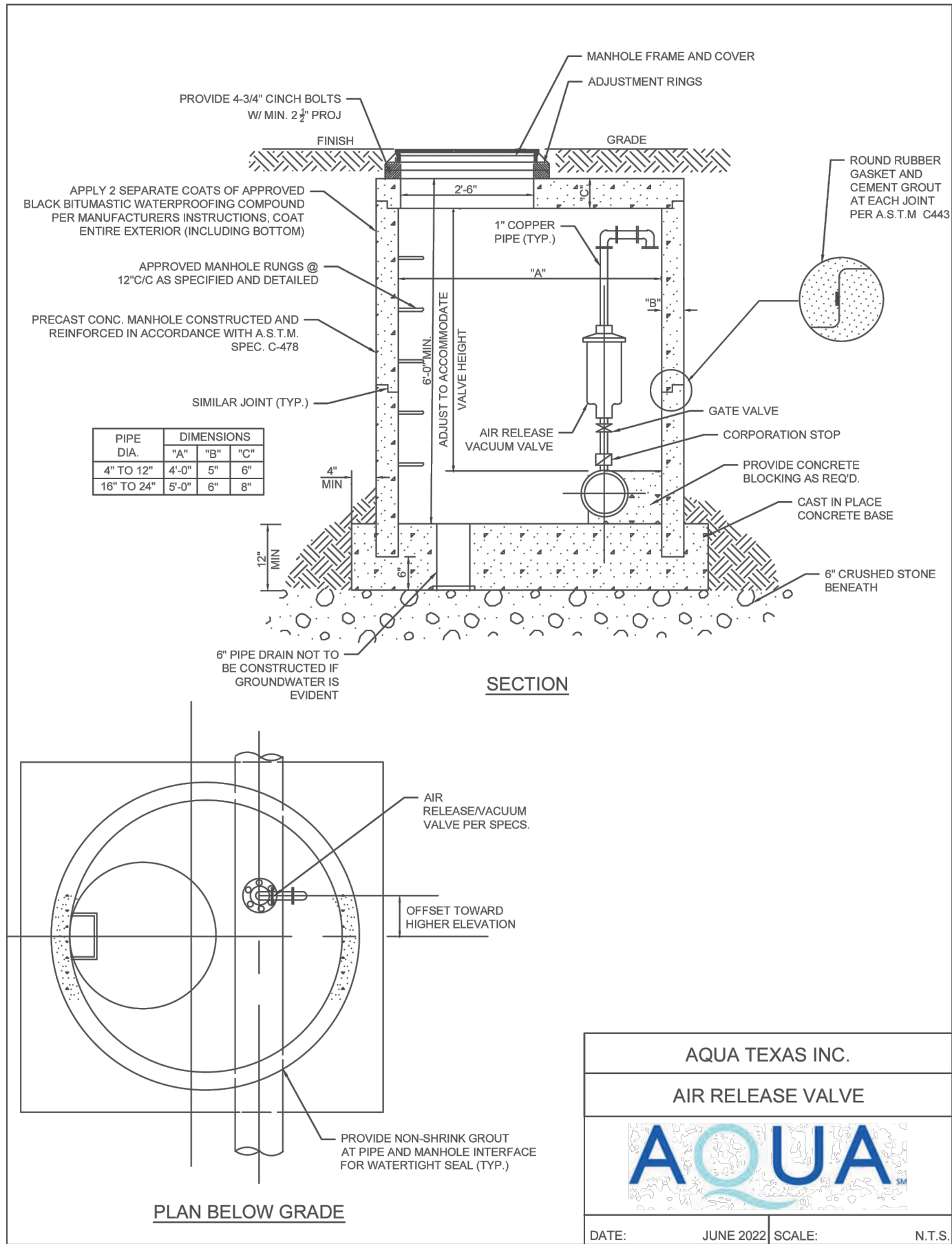


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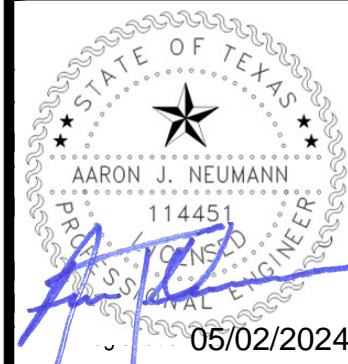
WIMBERLEY RIDGE
UTILITY DETAILS (SHEET 1)



NOT FOR CONSTRUCTION

WIMBERLEY RIDGE

UTILITY DETAILS (SHEET 2)



05/02/2024

SHEET

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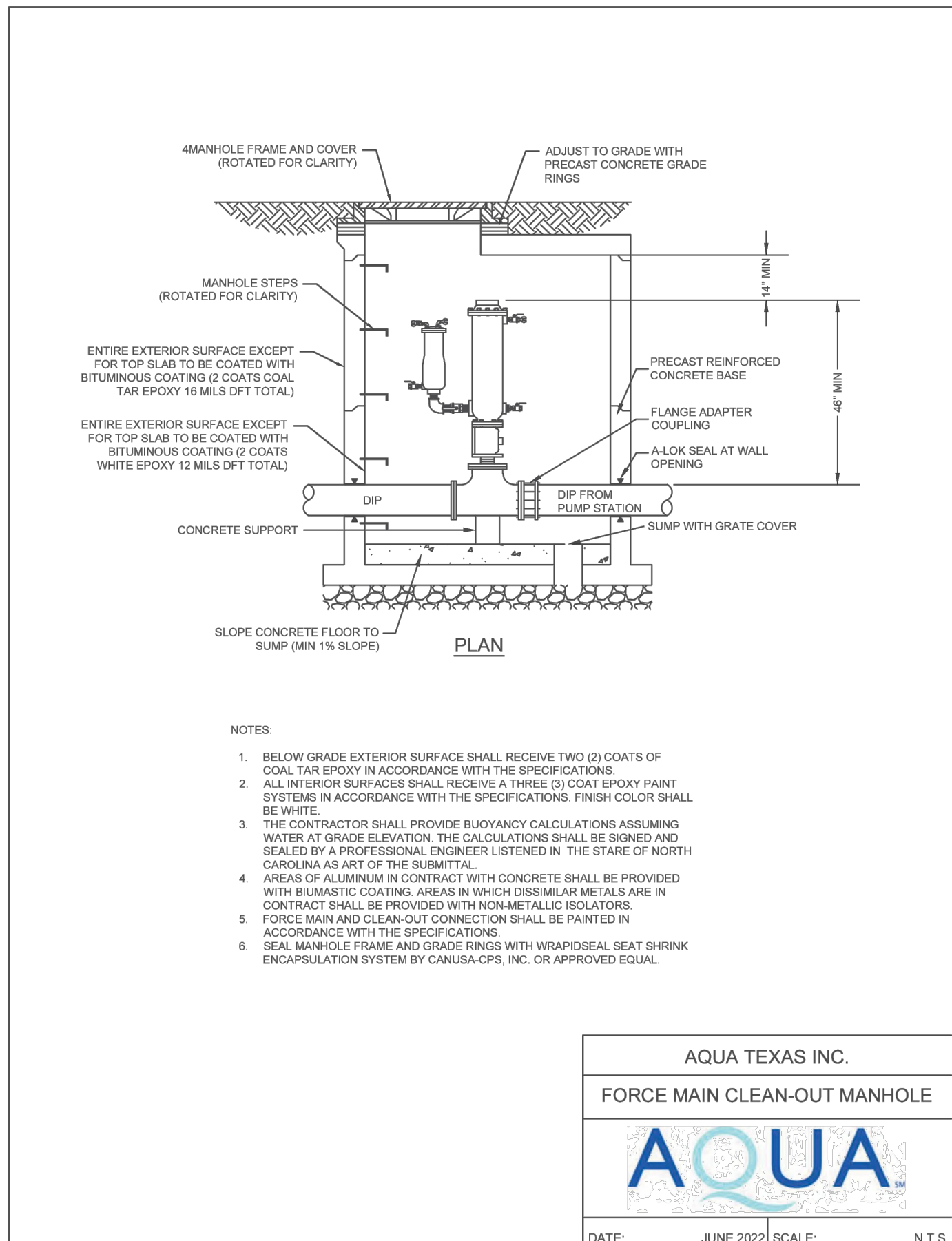
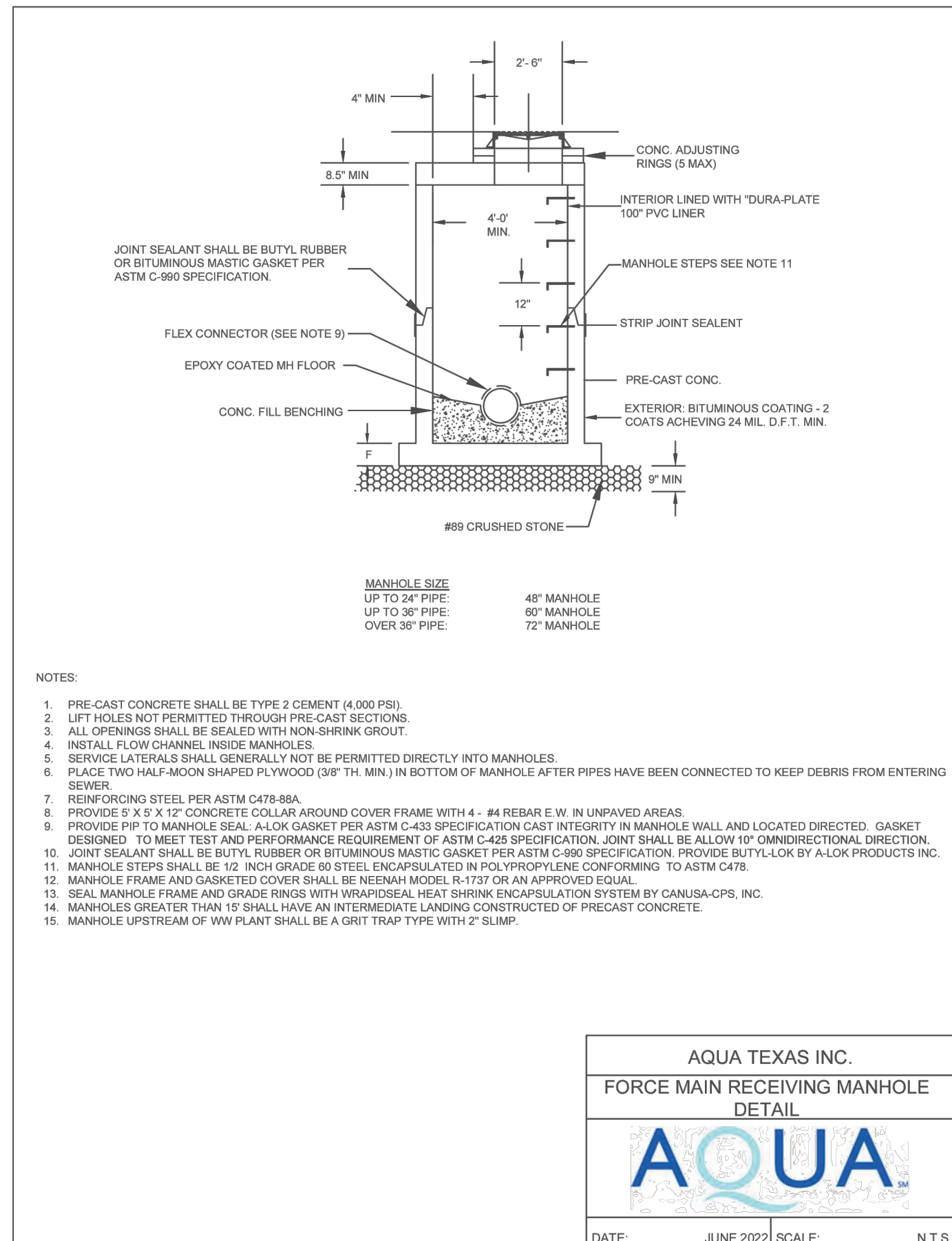
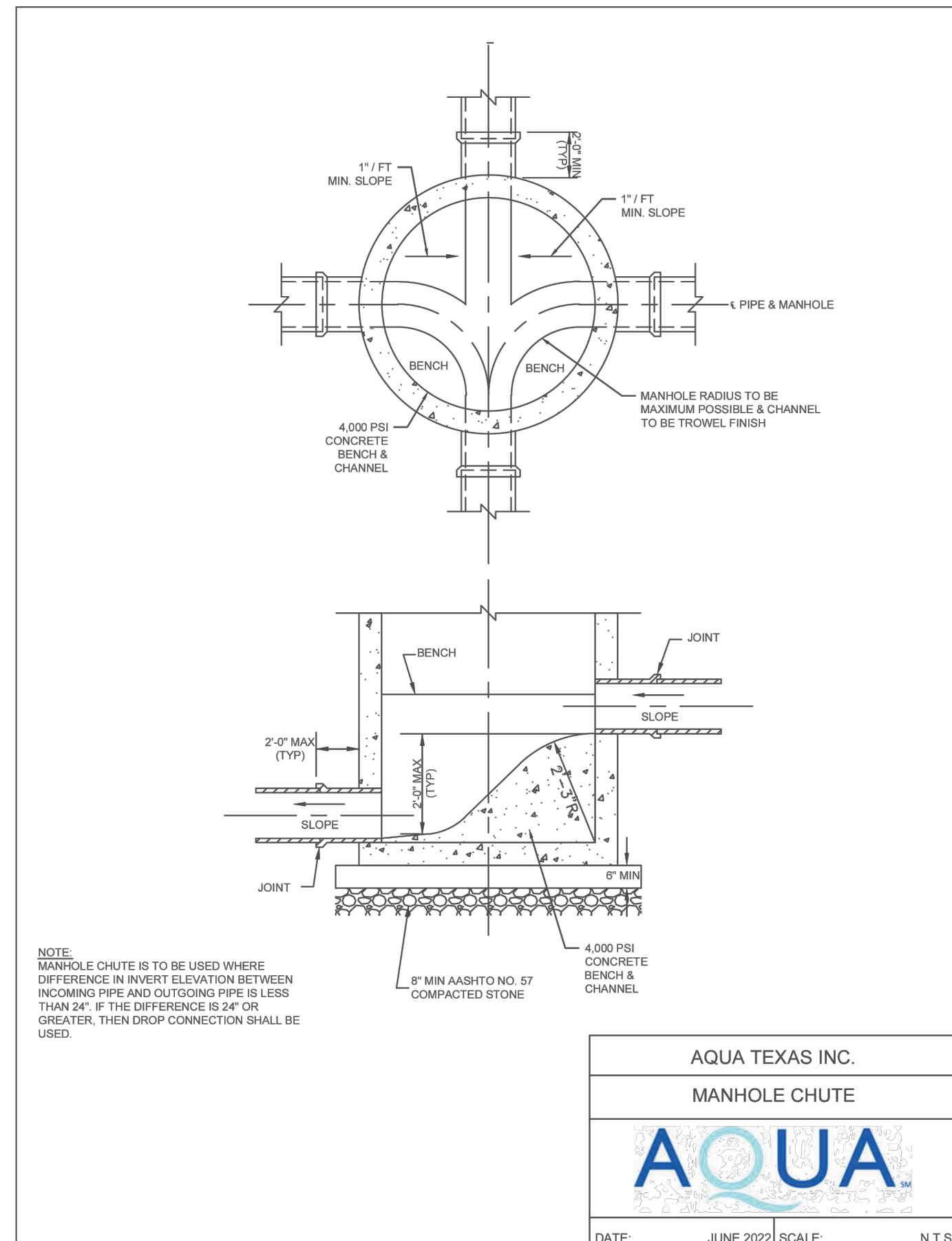
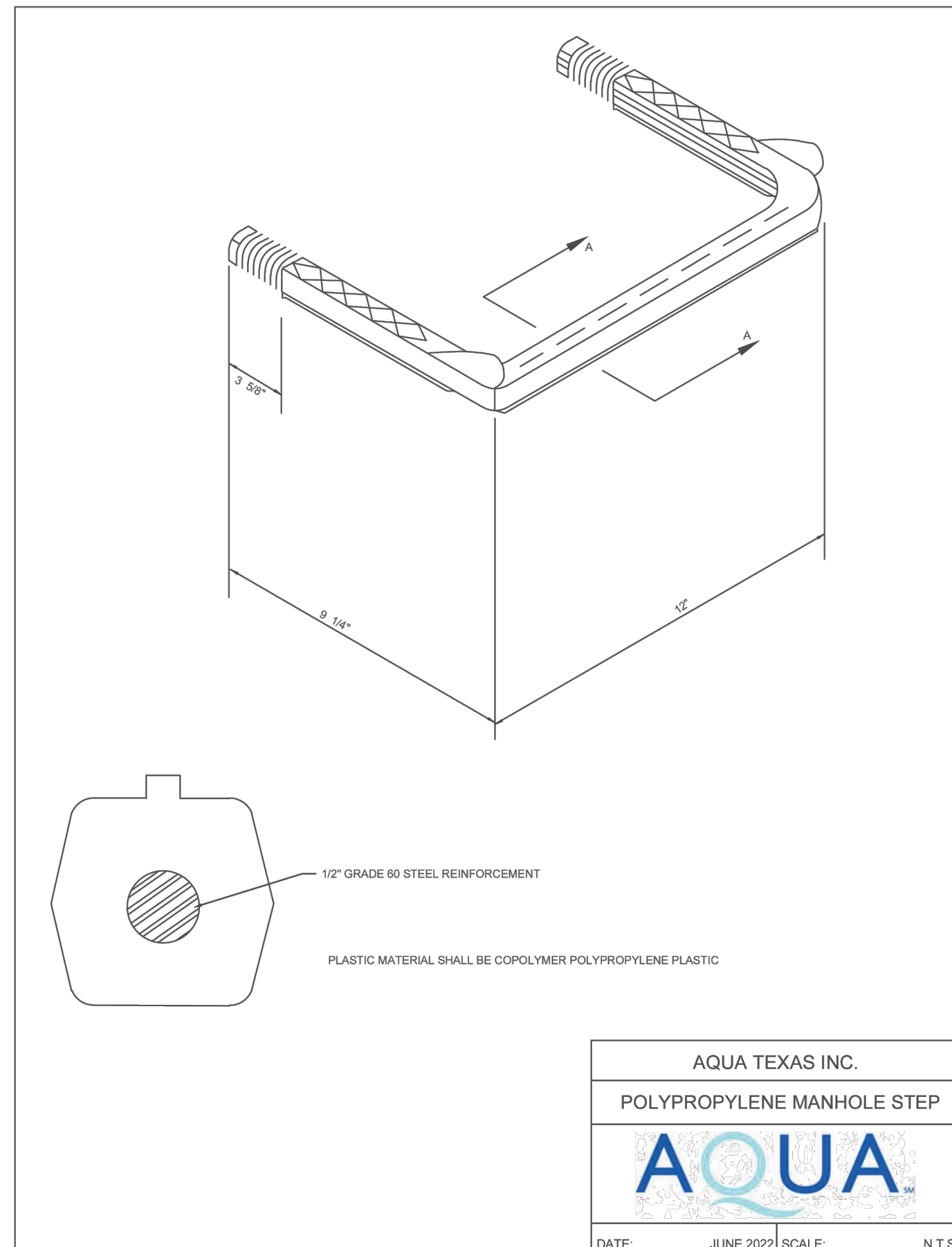
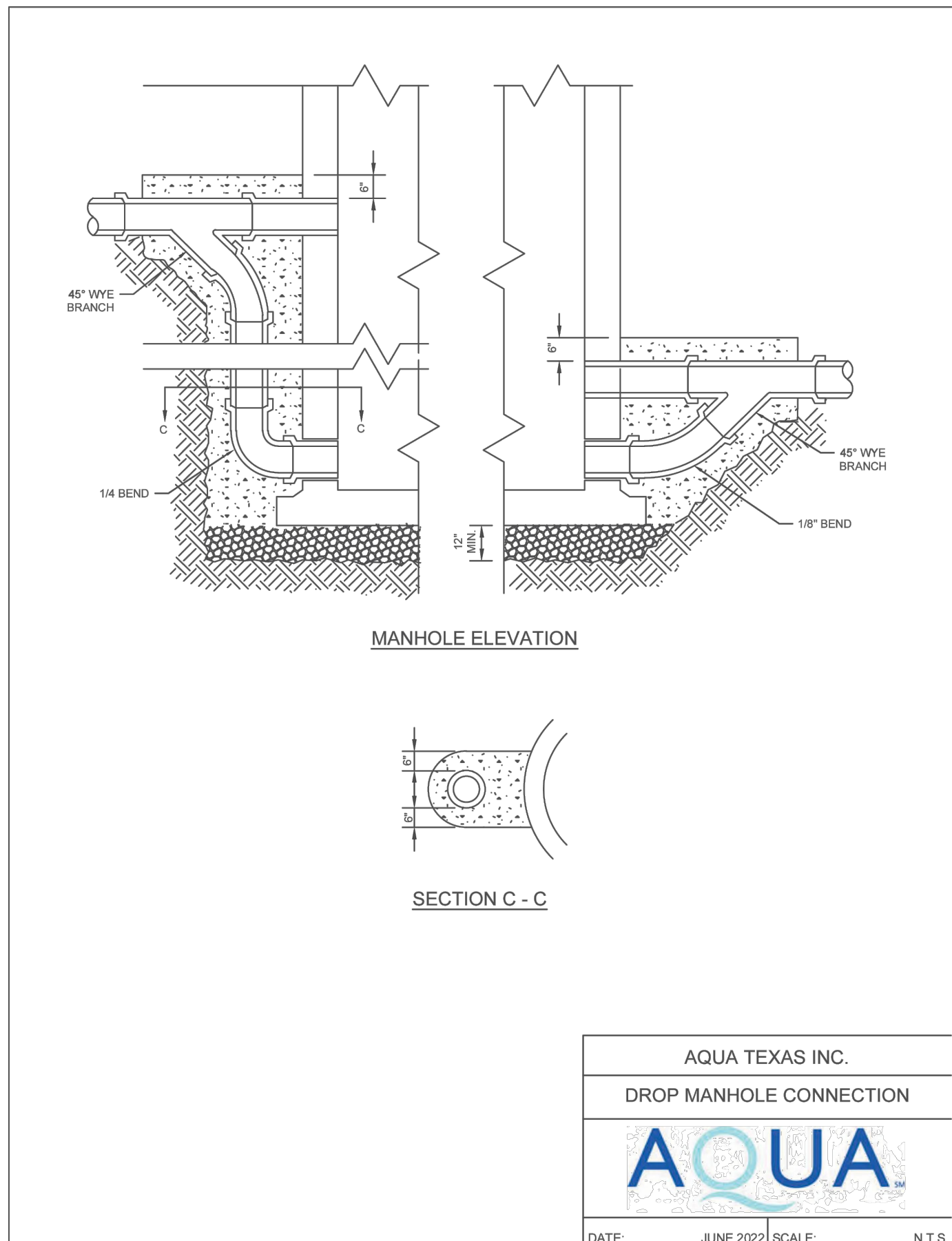
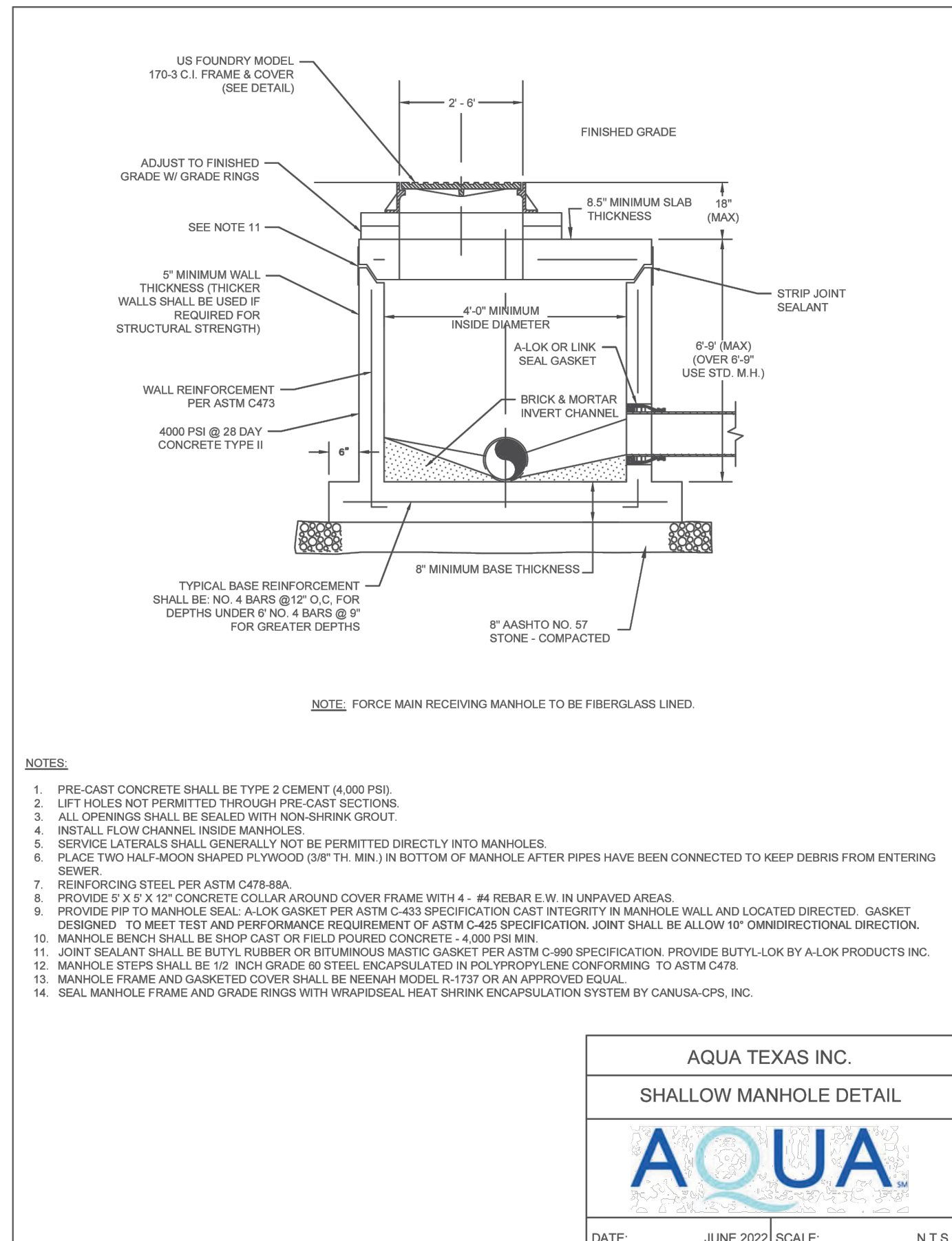
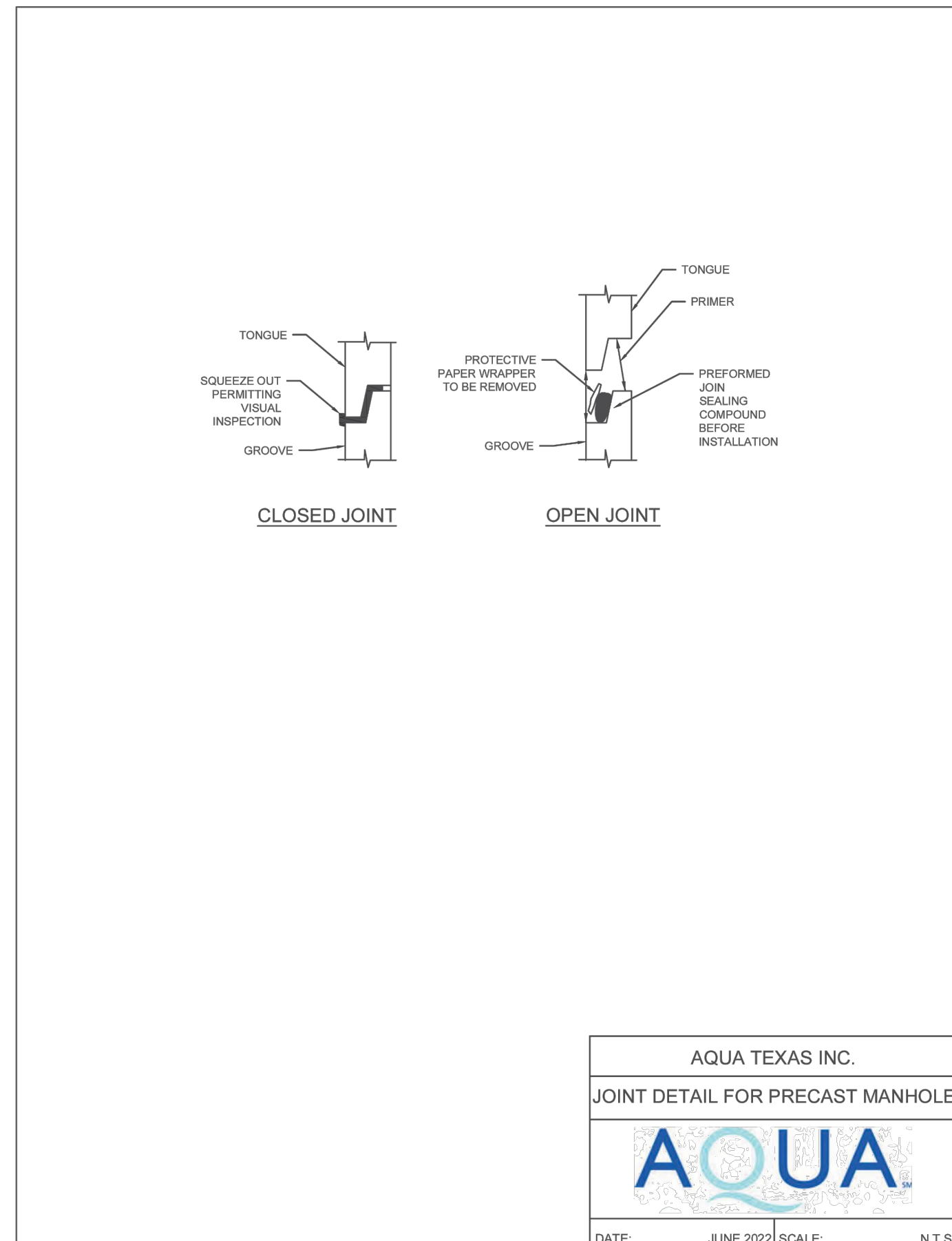
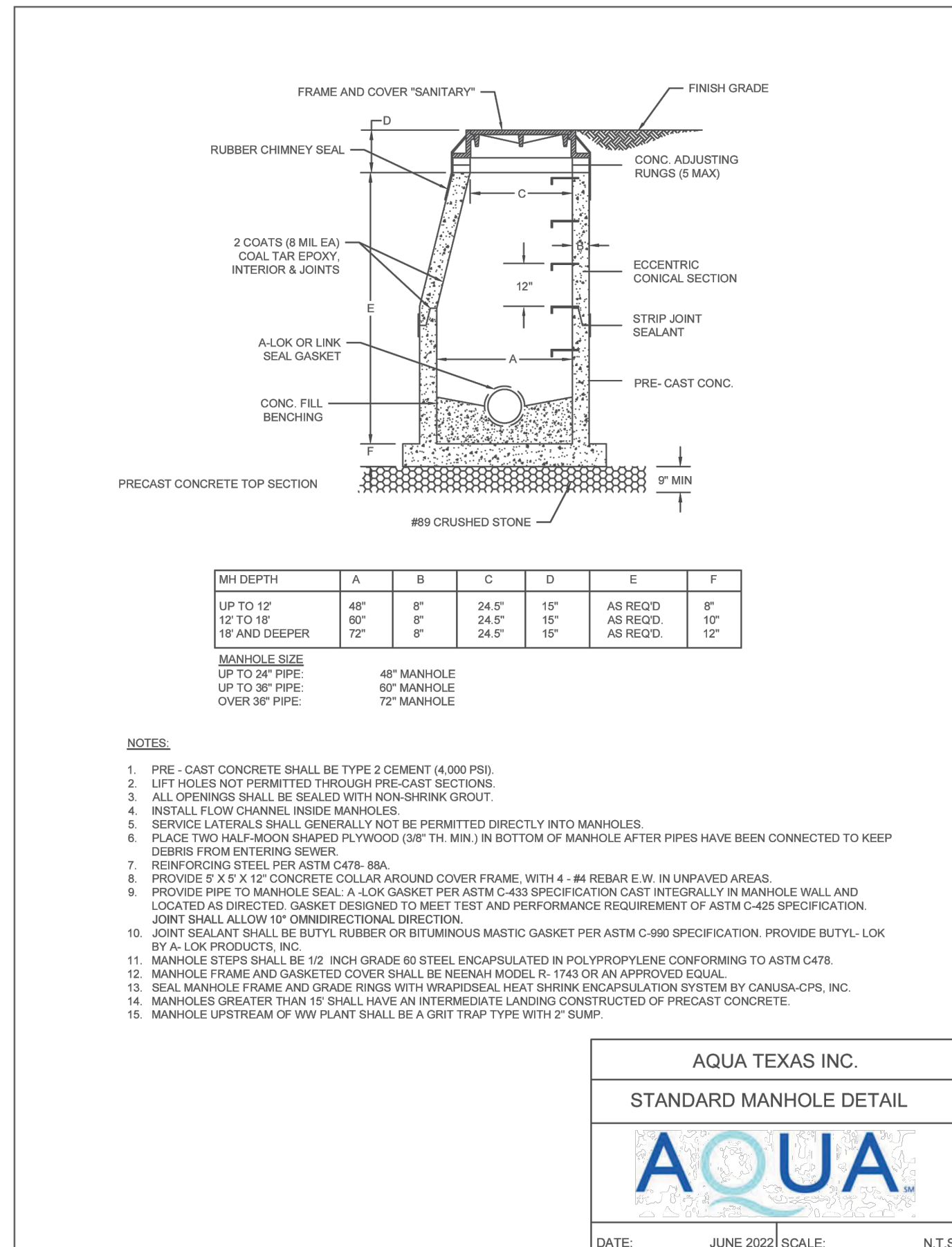
DESIGNED BY: AGS
REVIEWED BY: TR
DRAWN BY: RA

REV

DESCRIPTION

DATE

APR





ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

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Contributing Zone Plan Application (TCEQ-10257)

Attachment N- Inspection, Maintenance, Repair, and Retrofit Plan

This document has been prepared to provide a description and schedule for the performance of maintenance on permanent pollution abatement measures. Maintenance measures to be performed will be dependent on what permanent pollution abatement measures are incorporated into the project. The project specific water pollution abatement plan should be reviewed to determine what permanent pollution abatement measures are incorporated into a project. It should also be noted that the timing and procedures presented herein are general guidelines. Adjustment to the timing and procedures may have to be made depending on project specific characteristics as well as weather related conditions but may not be altered without TCEQ approval.

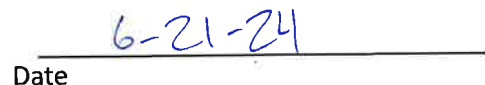
Where a project is occupied by the owner, the owner may provide for maintenance with his own skilled forces or contract for recommended maintenance of Permanent Best Management Practices. Where a project is occupied or leased by a tenant, the owner shall require tenants to contract for such maintenance services either through a lease agreement, property owners association covenants, or other binding document.

I understand that I am responsible for maintenance of the Permanent Pollution Abatement Measures included in this project until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property or ownership is transferred.

I, the owner, have read and understand the requirements of the attached Maintenance Plan and Schedule.

A handwritten signature in blue ink, appearing to be "H. Lopez", written over a horizontal line.

Signature

A handwritten date "6-21-24" in blue ink, written over a horizontal line.

Date

ATTACHMENT N

Contributing Zone Plan Application

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Contributing Zone Plan Application (TCEQ-10257)

BATCH DETENTION POND

Inspections should occur at least twice a year. If possible, these inspections should be conducted during wet weather to determine if the pond is meeting target detention times. Inspections should check for clogging of the primary outfall mechanism, as well as erosion problems in the upper stage pilot channel, all flow paths, and any erodible areas inside and downstream of the basin. If any slumping or erosion is discovered, immediate regrading or revegetation should be performed to correct the problems. Structural faults discovered during inspection should be identified and repaired immediately. Faults to check for include cracked concrete, sealing of voids, and removal of vegetation from cracks and joints. All inlet/outlet and riser pipes will eventually deteriorate and require replacement.

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. At the time of mowing, litter and debris 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. Additionally at this time, the facility should be evaluated in terms of nuisance control (insects, weeds, odors, algae, etc.).

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 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.

ATTACHMENT N

Contributing Zone Plan Application



Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

The Logic Controller should be inspected as part of the investigations conducted twice a year. 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 inspection and maintenance records must be kept at the office of the operator for the previous three years.

ATTACHMENT N

Contributing Zone Plan Application

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ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

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Wimberly Ridge

Contributing Zone Plan Application (TCEQ-10257)

Attachment P: Measures for Minimizing Surface Stream Contamination

Appropriately sized energy dissipators will be included where discharge from the site is concentrated and erosive velocities exist to reduce velocities to non-erosive levels and reduce surface stream contamination.

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Antonio Rodriguez

Date: 06/19/2024

Signature of Customer/Agent:



Regulated Entity Name: Wimberley Ridge

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.

1. Fuels for construction equipment and hazardous substances which will be used during construction:

☐ The following fuels and/or hazardous substances will be stored on the site: _____

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Cypress Creek, Blanco River

Temporary Best Management Practices (TBMPs)

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

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

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

temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices.** A schedule of the interim and permanent soil stabilization practices for the site is attached.
18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

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



ATTACHMENT A

SPILL RESPONSE ACTIONS

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Temporary Stormwater Section (TCEQ-0602)

Attachment A: Spill Response Actions

General Response Actions

1. All leaks and spills should be cleaned immediately.
2. Rags, mops, and absorbent material may all be used to cleanup a spill.
3. If these materials are used to clean a hazardous material, then they must be disposed of as hazardous waste.
4. Never hose down or bury dry material spills.

Minor Spills

If a minor spill occurs (typically small quantities of oil, gasoline, etc.) the following actions should be taken.

1. Contain the spread of the spill
2. Recover spilled materials
3. Clean the contaminated area and properly dispose of contaminated materials

Semi-Significant Spills

If a semi-significant spill occurs the following actions should be taken.

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

If a significant or hazardous spill occurs in reportable quantities, the following actions should be taken.

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 1-800-424-8802.
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.



ATTACHMENT B

POTENTIAL SOURCES OF CONTAMINATION

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Wimberly Ridge

Temporary Stormwater Section (TCEQ-0602)

Attachment B: Potential Sources of Contamination

Potential sources of contamination that may occur are:

- Oil, grease, fuel, and hydraulic fluid from construction equipment and vehicle drippings
- Miscellaneous trash and litter from construction workers and material wrappings
- Construction debris
- Excess application of fertilizers, herbicides, and pesticides

Preventative measures that will be taken to reduce contamination are:

- Vehicle maintenance will be performed within the construction staging area.
- Trash containers will be placed throughout the site to encourage proper trash disposal if necessary.
- Construction debris will be monitored daily by the contractor. Debris will be collected weekly and placed in disposal bins. Situations requiring immediate attention will be addressed on a case-by-case basis.
- Fertilizers, herbicides, and pesticides will be applied only when necessary and in accordance with manufacturer's directions.



ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

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Wimberly Ridge

Temporary Stormwater Section (TCEQ-0602)

Attachment C: Sequence of Major Activities

Roads and Utility Construction

1. Mobilization of the contractor's equipment.
2. Installation of temporary best management practices as described in attachment "D" of this section (Silt Fence, Construction Entrance, and Rock Berms), disturbed area included in road construction below.
3. Construction of flood management pond. (See table for disturbed areas)
4. Construction of roads. (See table for disturbed areas)
5. Trenching and installation of utilities. (See table for disturbed areas)
6. Establishment of permanent soil stabilization on disturbed areas.
7. Removal of Temporary BMP's.

Pond	1.64 acres
Roads	3.76 acres
Utilities	2.99 acres
Total	8.39 acres



ATTACHMENT D

TEMPORARY BMPs AND MEASURES

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Temporary Stormwater Section (TCEQ-0602)

Attachment D: Temporary Best Management Practices and Measures

- a. All upgradient stormwater entering the site will be treated by the BMPs that will prevent pollution of surface water or groundwater that originates on-site or flows off site. See a list of these BMPs in section "b."
- b. The BMPs that will prevent pollution of surface water or groundwater that originates on-site or flows off site are:
 - i. **Temporary Construction Entrance/Exit** – The installation of a stabilized construction entrance/exit will reduce the dispersion of sediment from the site. See CG 801 of the CZP Site Plan which contains a copy of Section 1.4.2 from the Edwards Aquifer Rules: Technical Guidance on Best Management Practices for materials, installation, common trouble points, inspection and maintenance.
 - ii. **Silt Fence** – The erection of silt fence along the boundary of construction activities will provide temporary erosion and sedimentation control. See CG 801 of the CZP Site Plan which contains a copy of Section 1.4.3 from the Edwards Aquifer Rules: Technical Guidance on Best Management Practices for materials, installation, common trouble points, inspection and maintenance.
 - iii. **Rock Berm** – The use of rock berms throughout the site will provide temporary erosion and sedimentation control. See CG 801 of the CZP Site Plan which contains a copy of Section 1.4.5 from the Edwards Aquifer Rules: Technical Guidance on Best Management Practices for materials, installation, common trouble points, inspection and maintenance.
 - iv. **Construction Staging Area** – The construction staging area will provide on-site pollution prevention.
 - v. **Concrete Truck Washout Pit** – A concrete truck washout pit aids in the final cleanup and prevents unnecessary discharge of concrete residue from contaminating the storm water runoff. See CG 801 of the CZP Site Plan which contains a copy of Section 1.4.18 from the Edwards Aquifer Rules: Technical Guidance on Best Management Practices for materials, installation, common trouble points, inspection and maintenance.
- c. Silt fence and rock berms (see section "b") will be used to prevent sediment-laden runoff from entering sensitive features on this site and surface streams off the site.
- d. The flow to the natural sensitive features on this site, to a maximum practical extent, will not be disturbed. No clearing, excavation or grading will occur within the buffer zone of the sensitive feature. If another naturally-occurring sensitive feature is identified during construction all activity will be stopped and the contractor should notify TCEQ.



ATTACHMENT E

STRUCTURAL PRACTICES

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Wimberly Ridge

Temporary Stormwater Section (TCEQ-0602)

Attachment E: Structural Practices

Structural practices installed to prevent the runoff of pollutants from exposed areas of the site are:

- Silt Fence
- Stabilized Construction Entrance/Exit
- Construction Staging Area
- Concrete Truck Washout Pit
- Rock Berm

For the majority of the disturbed soil within the limits of this project, silt fence will capture and hold sediment laden runoff.

Since part of this site is located within the floodplain, placement of these structure practices within the floodplain should be avoided.



ATTACHMENT I

INSPECTION AND MAINTENANCE FOR BMPs

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Temporary Stormwater Section (TCEQ-0602)

Attachment I – Inspection and Maintenance for BMPs

Designated and qualified person(s) shall inspect Pollution Control Measures every seven days and within 24 hours after a storm event. An inspection report that summarized the scope of the inspection, names and qualifications of personnel conducting the inspection, date of inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of the Storm Water T.P.D.E.S. Plan. A copy of the inspection report form is provided as page 3 of this attachment. Inspection and Maintenance Guidelines are as follows:

Construction Entrance:

- (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.

Silt Fence:

- (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.

Temporary/Permanent Vegetation:

- (1) Permanent vegetation should be inspected weekly and after each rain event to locate and repair any erosion.
- (2) Erosion from storms or other damage should be repaired as soon as practical by regrading the area and applying new seed.
- (3) If the vegetated cover is less than 80%, the area should be reseeded.

Rock Berm:

- (1) Inspection should be made weekly and after each rainfall by the responsible party. For installations in streambeds, additional daily inspections should be made.
- (2) Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.
- (3) Repair any loose wire sheathing.
- (4) The berm should be reshaped as needed during inspection.
- (5) The berm should be replaced when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- (6) The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.



Wimberly Ridge

Temporary Stormwater Section (TCEQ-0602)

Attachment I – Inspection and Maintenance for BMP

Approved Inspection intervals:

- i. Conducted once every 7 days AND within 24 hours after rainfall event greater than 0.5 inch.

PROJECT NAME _____
REPORT # _____ DATE _____
INSPECTOR _____ TITLE _____
REASON FOR INSPECTION (CHECK ONE) Weekly _____ Or ½" Rain _____
DATE OF LAST RAINFALL _____ AMOUNT _____

SITE CONDITIONS:

EROSION AND SEDIMENTATION	IN CONFORMANCE		EFFECTIVE	
CONTROLS				
Concrete Washout Area		Yes/No/Na		Yes/No
Construction Entrance		Yes/No/Na		Yes/No
Permanent Vegetation		Yes/No/Na		Yes/No
Silt Fence		Yes/No/Na		Yes/No
Rock Berm		Yes/No/Na		Yes/No

RECOMMENDED REMEDIAL ACTIONS:

COMMENTS:

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

INSPECTOR: _____ DATE: _____

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ATTACHMENT J

SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

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Temporary Stormwater Section (TCEQ-0602)

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Soil stabilization practices will be used to reduce the amount of erosion from the site. Only the areas essential for immediate construction should be cleared. This will keep a buffer zone around the area of construction as these areas will remain undisturbed until construction begins there.

Interim soil stabilization areas are determined in the field. Temporary vegetation will be used as an aid to control erosion on critical sites during establishment period of protective vegetation when construction is temporarily ceased.

Stabilization practices should be installed according to the following rules:

- Stabilization measures shall be initiated as soon as practical 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 temporarily or permanently ceased is precluded by weather conditions, stabilization measures shall be initiated as soon as practical.
- In areas experiencing droughts where the initiation of stabilization measure 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 practical.

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

I _____ Hutchison Utt _____
Print Name

Owner

Title - Owner/President/Other
of _____ Impact Commercial Services _____
Corporation/Partnership/Entity Name
have authorized _____ Antonio Rodriguez _____
Print Name of Agent/Engineer
of _____ BGE, Inc. _____
Print Name of Firm

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

I also understand that:

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

SIGNATURE PAGE:


Applicant's Signature

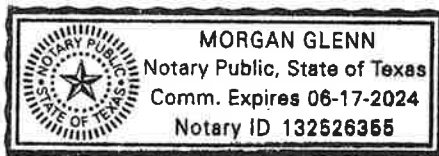
May 28 2024
Date

THE STATE OF Texas §

County of Hays §

BEFORE ME, the undersigned authority, on this day personally appeared Hutchinson vtr 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 28th day of may, 2024



Morgan Glenn
NOTARY PUBLIC
Morgan Glenn
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 06-17-2024

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Wimberley Ridge

Regulated Entity Location: along west side of Valley Springs Road , 0.56 miles north of FM 2325, 2.25 miles west of the City of Woodcreek ETJ and 2 miles northwest of the City of Wimberly ETJ.

Name of Customer: Impact Commercial Services, LLC

Contact Person: Antonio Rodriguez

Phone: +1 (210) 581-3643

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☒ Hays

☐ Williamson

☐ Travis

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

☐ Overnight Delivery to: TCEQ - Cashier

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☐ Recharge Zone

☒ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	19.22 Acres	\$ 4,000
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Extension of Time	Each	\$

Signature: 

Date: 5/28/24

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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



TCEQ Core Data Form

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

SECTION I: General Information

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

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership				
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>				
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>	
Impact Commercial Services, LLC				
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID	10. DUNS Number (if applicable)	
0803666106	32074833685	(9 digits)		
11. Type of Customer:		<input type="checkbox"/> Corporation <input type="checkbox"/> Individual <input type="checkbox"/> Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited		
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:		
12. Number of Employees		13. Independently Owned and Operated?		
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following				
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:				
<input type="checkbox"/> Occupational Licensee <input checked="" type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant				
15. Mailing Address:				
1206 W Slaughter Lane				
City: Austin State: TX ZIP: 78748 ZIP + 4: 6432				
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information**21. General Regulated Entity Information** (If 'New Regulated Entity' is selected, a new permit application is also required.)☒ 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 Core 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.)

Wimberley Ridge

23. Street Address of the Regulated Entity:*(No PO Boxes)*

City

State

ZIP

ZIP + 4

24. County

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

25. Description to Physical Location:

21.69-acre project located along West Valley Springs Road , 0.56 miles north of FM 2325, 2.25 miles west of the City of Woodcreek ETJ and 2 miles northwest of the City of Wimberley ETJ.

26. Nearest City

State

Nearest ZIP Code

Wimberley

TX

78676

*Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).***27. Latitude (N) In Decimal:**

30.024545

28. Longitude (W) In Decimal:

-98.146106

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

30

1

28

-98

8

46

29. Primary SIC Code**30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

1521

236117

33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)

Single Family Residential Housing

34. Mailing**Address:**

City

State

ZIP

ZIP + 4

35. E-Mail Address:**36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

() -

() -

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

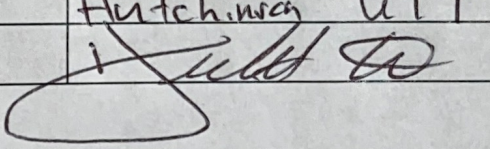
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review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

SECTION IV: Preparer Information

40. Name:	Tony Rodriguez		41. Title:	EIT
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(210) 581-3600		() -	trodriguez@bgeinc.com	

SECTION V: Authorized Signature

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

Company:		Job Title:	
Name (In Print):	Hutchinson UTT	Phone:	() -
Signature:		Date:	5/16/2024

Applicant Acknowledgement

I, Hutchison Utt of Impact Commercial Services LLC
Applicant Name (Individual) Firm (applicable to Legal Entities)

acknowledge that WimRidge Development LLC
Land Owner Name (Legal Entity or Individual)

has provided Impact Commercial Services LLC
Applicant Name (Legal Entity or Individual)

with the right to possess and control the property referenced in the Edwards Aquifer Protection Plan (Plan).

I understand that Impact Commercial Services LLC
Applicant Name (Legal Entity or Individual)

is responsible, contractually or not, for compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan through all phases of Plan implementation. I further understand that failure to comply with any condition of the Executive Director's approval is a violation and is subject to administrative rule or orders and penalties as provided under § 213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature

[Signature]
Applicant Signature

7/24/2024
Date

THE STATE OF § Texas

County of § Trans

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

GIVEN under my hand and seal of office on this 24th day of July, 2024



Denna S. Turner
NOTARY PUBLIC

Denna L. Turner
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 1-15-2028

Owner Authorization Form

for Required Signature for submitting and signing an application
for an Edwards Aquifer Protection Plan (Plan) and conducting
regulated activities in accordance with an approved Plan.

Texas Commission on Environmental Quality
Edwards Aquifer Protection Program
Relating to the Edwards Aquifer Rules of
Title 30 of the Texas Administrative Code
(30 TAC), Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, Hutch Utt of WimRidge Development LLC
Land Owner Name (Individual) Firm (applicable to Legal Entities)

am the Owner of Record or Title Holder of the property located at:

Woodcreek Section 25, Lots 7-44, 50-59, & 145-157

(Legal description of the property referenced in the application)

and being duly authorized under 30 TAC § 213.4(c)(2) and § 213.4(d)(1) or § 213.23(c)(2)
and § 213.23(d) to submit and sign an application for a Plan, do hereby authorize:

Impact Commercial Services, LLC

(Applicant Name / Plan Holder (Legal Entity or Individual))

to conduct:

Construction of residential subdivision, including grading, roads, drainage, and utility infrastructure installation

(Description of the proposed regulated activities)

on the property described above or at:

Woodcreek Section 25, Lots 7-44, 50-59, & 145-157

(If applicable to a precise location for the authorized regulated activities)

Land Owner Acknowledgement

I, Hutch Utt of WimRidge Development LLC
Land Owner Name (Individual) Firm (applicable to Legal Entities)

understand that while Impact Commercial Services, LLC

Applicant Name / Plan Holder (Legal Entity or Individual)

is responsible for compliance with the approved or conditionally approved Plan and any
special conditions of the approved Plan through all phases of Plan implementation,

I, Hutchison Utt of
Land Owner Name (Individual)

WimRidge Development LLC
Firm (applicable to Legal Entities)

as Owner of Record or Title Holder of the property described above, I am ultimately responsible for ensuring that compliance with the approved or conditionally approved Plan and any special conditions of the approved Plan, through all phases of Plan implementation, is achieved even if the responsibility for compliance and the right to possess and control of the property referenced in the application has been contractually assumed by another legal entity.

I, Hutchison Utt of
Land Owner Name (Individual)

WimRidge Development LLC
Firm (applicable to Legal Entities)

further understand that any failure to comply with any condition of the Executive Director's approval is a violation and is subject to administrative rule or orders and penalties as provided under 30 TAC § 213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

[Signature]
Land Owner Signature

7/24/2024
Date

THE STATE OF § Texas

County of § Trans

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

GIVEN under my hand and seal of office on this 24th day of July, 2024



Denna S. Turner
NOTARY PUBLIC

Denna L. Turner
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 1-15-2028

Attached: (Mark all that apply)

- ☐ Lease Agreement
- ☐ Signed Contract
- ☐ Deed Recorded Easement
- ☐ Other legally binding document