CONTRIBUTING ZONE PLAN (CZP)

CR 255 IMPROVEMENTS

From Intersection of CR 254 to Ronald Reagan Blvd.

Prepared For:

Williamson County
3151 S.E. Inner Loop, Suite B
Georgetown, TX 78626

Prepared By:

CLGann, LLC
3708 Norman Loop
Round Rock, TX 78664-3919
512.574.5738
TBPELS Firm No.20717

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
09/06/2024
Clay E. Gann, P.E.

September 06, 2024

Edwards Aquifer Protection Program Roadway Checklist

- **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- **Edwards Aquifer Protection Program Roadway Application (TCEQ-20872)**

  Attachment A - Road Map
  Attachment B - USGS Quadrangle
  Attachment C - Project Description
  Attachment D - Factors Affecting Surface Water Quality
  Attachment E - BMPs for Upgradient (Offsite) Stormwater
  Attachment F - BMPs for On-site Stormwater
  Attachment G - Construction Plans
  Attachment H - Inspection, Maintenance, Repair and Retrofit Plan
  Attachment I - Pilot-Scale Field Testing Plan
  Attachment J - Measures for Minimizing Surface Stream Contamination
  Attachment K - Volume and Character of Stormwater

- **Geologic Assessment Form (TCEQ-0585)**
  - *Required for site over the Recharge zone*

  Attachment A - Geologic Assessment Table (TCEQ-0585-Table)
  Attachment B - Stratigraphic Column
  Attachment C - Site Geology
  Attachment D - Site Geologic Map(s)

- **Temporary Stormwater Section (TCEQ-0602)**
  - *Review Item 37 on Roadway Application for applicability*

  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 requested)
  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

- **Agent Authorization Form (TCEQ-0599)**
  - *Only if application is submitted by an authorized agent*
- **Application Fee Form (TCEQ-0574)**
  - *Do <u>not</u> submit for TxDOT roadways*
- **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: County Road 255 Extension to Ronald Reagan Blvd.						**2. Regulated Entity No.:**			
3. Customer Name: Williamson County						**4. Customer No.:** CN600897888			
5. Project Type: **(Please circle/check one)**	New		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		Non-residential			**8. Site (acres):**			68.48 Ac.
9. Application Fee:	$8000		**10. Permanent BMP(s):**					Engineered Vegetative Filter Strips	
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**					N/A	
13. County:	Williamson		**14. Watershed:**					North Fork San Gabriel - Lake Georgetown	

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	__	__	1
Region (1 req.)	__	__	1
County(ies)	__	__	1
Groundwater Conservation District(s)	__Edwards Aquifer Authority __Barton Springs/ Edwards Aquifer __Hays Trinity __Plum Creek	__Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	__Austin __Buda __Dripping Springs __Kyle __Mountain City __San Marcos __Wimberley __Woodcreek	__Austin __Bee Cave __Pflugerville __Rollingwood __Round Rock __Sunset Valley __West Lake Hills	__Austin __Cedar Park __Florence 1 Georgetown __Jerrell __Leander __Liberty Hill __Pflugerville __Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	__	__	__	__	__
Region (1 req.)	__	__	__	__	__
County(ies)	__	__	__	__	__
Groundwater Conservation District(s)	__ Edwards Aquifer Authority __Trinity-Glen Rose	__Edwards Aquifer Authority	__Kinney	__EAA __Medina	__EAA __Uvalde
City(ies) Jurisdiction	__Castle Hills __Fair Oaks Ranch __Helotes __Hill Country Village __Hollywood Park __San Antonio (SAWS) __Shavano Park	__Bulverde __Fair Oaks Ranch __Garden Ridge __New Braunfels __Schertz	NA	__San Antonio ETJ (SAWS)	NA

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

Clay E. Gann, PE

Print Name of Customer/Authorized Agent

Clay E. Gann, P.E. 8/19/2024

Signature of Customer/Authorized Agent Date

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

Edwards Aquifer Protection Program Roadway Application

Texas Commission on Environmental Quality

This application is intended only for projects which a major roadway is designed for construction, such as State highways, County roads, and City thoroughfares.

Designed for Regulated Activities on the Contributing Zone to the Edwards Aquifer in relation to 30 TAC §213.24, Regulated Activities on the Edwards Aquifer Recharge Zone, in relation to 30 TAC §213.5(b), 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.

The application was prepared by:

Print Name of Customer/Agent: Clay E. Gann, PE

Date: 09/05/2024

Signature of Customer/Agent:

Clay E Gann, P.E.

Project Information

1. Regulated Entity (Project) Name: County Road 255 Extension to Ronald Reagan Blvd
2. County: Williamson
3. Stream Basin(s): North Fork San Gabriel River
4. Groundwater Conservation District (if applicable): N/A
5. Customer (Applicant):

   Contact Person: Adam Boatright, PE
   Entity: Williamson County
   Mailing Address: 3151 S.E. Inner Loop, Suite B
   City, State: Georgetown,TX Zip: 78626
   Telephone: 512-943-3330
   Email Address: roadadmin@wilco.org

6. Agent (Representative):

   Contact Person: Clay E. Gann, PE
   Entity: CLGann, LLC
   Mailing Address: 3708 Normal Loop
   City, State: Round Rock, TX Zip: 78664
   Telephone: 512-574-5738
   Email Address: cgann@clgann.com

7. Landowner of R.O.W. (Right of Way)
   Person or entity responsible for maintenance of water quality Best Management Practices (BMPs), if not applicant.

   Contact Person: Adam Boatright, PE
   Entity: Williamson County
   Mailing Address: 3151 S.E. Inner Loop, Suite B
   City, State: Georgetown, TX Zip: 78626
   Telephone: 512-943-3330
   Email Address: roadadmin@wilco.org

8. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey marking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of any regulated activities and the geologic or manmade features noted in the Geologic Assessment.

   ☒ Survey marking will be completed by this date: 09/06/24

9. ☒ **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.

10. ☒ **Attachment B - USGS Quadrangle**. 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)
    ☒ All drainage paths from site to surface waters

11. ☒ **This project extends into (Check all that apply):**

    ☐ Recharge Zone (RZ)
    ☒ Contributing Zone (CZ)
    ☐ Transition Zone (TZ)
    ☐ Contributing Zone within Transition Zone (CZ/TZ)
    ☐ Zone not regulated by EAPP

12. ☒ **Attachment C - Project Description**. 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:

    ☒ Complete site area [Acres]
    ☒ Offsite upgradient stormwater areas to be captured
    ☒ Impervious area [Acres]
    ☒ Permanent BMP(s)
    ☒ Proposed site use
    ☒ Existing roadway (paved and/or unpaved)
    ☒ Structures to be demolished [Include demo phase]
    ☒ Major interim phases

13. Existing project site conditions are noted below:

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

14. ☒ **Attachment D - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water quality is attached.

15. ☒ Only inert materials as defined by 30 TAC §330.3 will be used as fill material.

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

    ☐ Concrete
    ☒ Asphaltic concrete pavement
    ☐ Permeable Friction Course (PFC)
    ☐ Other: _____

17. Right of Way (R.O.W.) and Pavement Area:

    R.O.W. for project: 68.48 (ac.)
    Length: 15255 ft.
    Width: varies from 105 ft. to 135 ft.
    Impervious cover (IC): 14.84 (ac.)
    Total of Pavement area 14.84 (ac.) ÷ R.O.W. area 68.48 (ac.) x 100 = 21.67% IC.

    ☒ CAD program was used to determine areas.
    ☒ Number of travel lanes: proposed: 2, existing: 2
    ☒ Typical widths of lanes: 12 (ft.)
    ☒ Are intersections also being improved? (Y/N) Y

Site Plan Requirements

Items 18 - 28 must be included on the Site Plan.

18. ☒ The Site Plan must have a minimum scale of 1" = 400'.
    Site Plan Scale: 1" = 100'

19. 100-year floodplain boundaries:

    ☐ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled. The 100-year floodplain boundaries are based on the following specific (including date of material) source(s):FIRM 48491C0275E.

    ☒ No part of the project site is located within the 100-year floodplain.

20. ☒ A layout of the development with existing and finished contours at appropriate, but not greater than ten-foot contour intervals is shown. Sensitive features, lots, wells, buildings, roads, culverts, etc. are shown on the site plan.

21. ☒ A figure (map) indicating all paths of drainage from the site to surface waters.

    ☒ Name all stream crossings: Unnamed Tribs to North Fork San Gabriel River

    ☒ Drainage patterns and approximate slopes.

    ☐ There will be no discharge to surface waters.

22. ☒ Distinguish between areas of soil disturbance and areas which will not be disturbed.

23. ☒ Show locations of major structural and nonstructural controls. These are the temporary and permanent best management practices. Include the following:

    ☒ Show design and location of any hazardous materials traps.

    ☒ Show design at outfalls of major control structures and conveyances.

    ☒ A description of the BMPs and measures that prevent pollutants from entering surface streams.

24. Show locations of staging areas or project specific locations (PSL). Are they:

    ☐ Onsite, within project R.O.W.

    ☐ Offsite.

    ☒ Not yet determined. (Requires future authorization)

25. ☒ Show locations where soil stabilization practices are expected to occur.

26. ☒ Show surface waters (including wetlands).

27. Temporary aboveground storage tank facilities:

    ☐ Temporary aboveground storage tank facilities will be located on this site. Show on site plan.

    ☒ Temporary aboveground storage tank facilities will not be located on this site.

28. ☒ Plan(s) also include:

    ☐ Sidewalks
    ☒ Related turn lanes
    ☒ Demolition plans
    ☒ Shared-use paths
    ☐ Off-site improvements and staging areas
    ☒ Utility relocations

☐ Other improved areas: N/A

Permanent Best Management Practices (BMPs)

Description of practices and measures that will be used after construction is completed.

29. ☒ Permanent BMPs and measures have been designed, and will be constructed, operated, and maintained to ensure 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 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: N/A

30. ☒ **Attachment E - BMPs for Upgradient (Offsite) 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.

31. ☒ **Attachment F - 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.

32. ☒ **Attachment G - 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 all proposed structural plans and specifications, and appropriate details.

    ☒ Major bridge cross-sections, and roadway plan and profiles

    ☒ BMP plans and details

    ☒ Design calculations

    ☒ Erosion control

    ☒ TCEQ Construction Notes

    ☒ SW3P

    ☒ EPIC, as necessary

33. ☒ **Attachment H - 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 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 recordkeeping procedures.

34. ☒ **Attachment I - 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

35. ☒ **Attachment J - 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 effects caused by the regulated activity which increase erosion or may result in water quality degradation.

    ☒ Include permanent spill measures used to contain hydrocarbons or hazardous substances by way of traps, or response contingencies.

36. 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.

    If the applicant intends to transfer responsibility, check the box below.

    ☐ Yes

    A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days.

Stormwater to be generated by the Proposed Project

Description of practices and measures that will be used during construction.

37. ☒ The site description, controls, maintenance, and inspection requirements for the Storm Water Pollution Prevention Plan (SWPPP or SW3P) developed under the Texas Pollutant Discharge Elimination System (TPDES) general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) & §213.5(b) of the technical report.

    ☒ The Temporary Stormwater Section (TCEQ-0602) is included with the application.
    ☐ The SWPPP (SW3P) will serve as the Temporary Stormwater Section (TCEQ-0602).

38. ☒ **Attachment K - Volume and Character of Stormwater**. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff 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 pre-construction runoff coefficient.
    ☒ Include the post-construction runoff coefficient.

Administrative Information

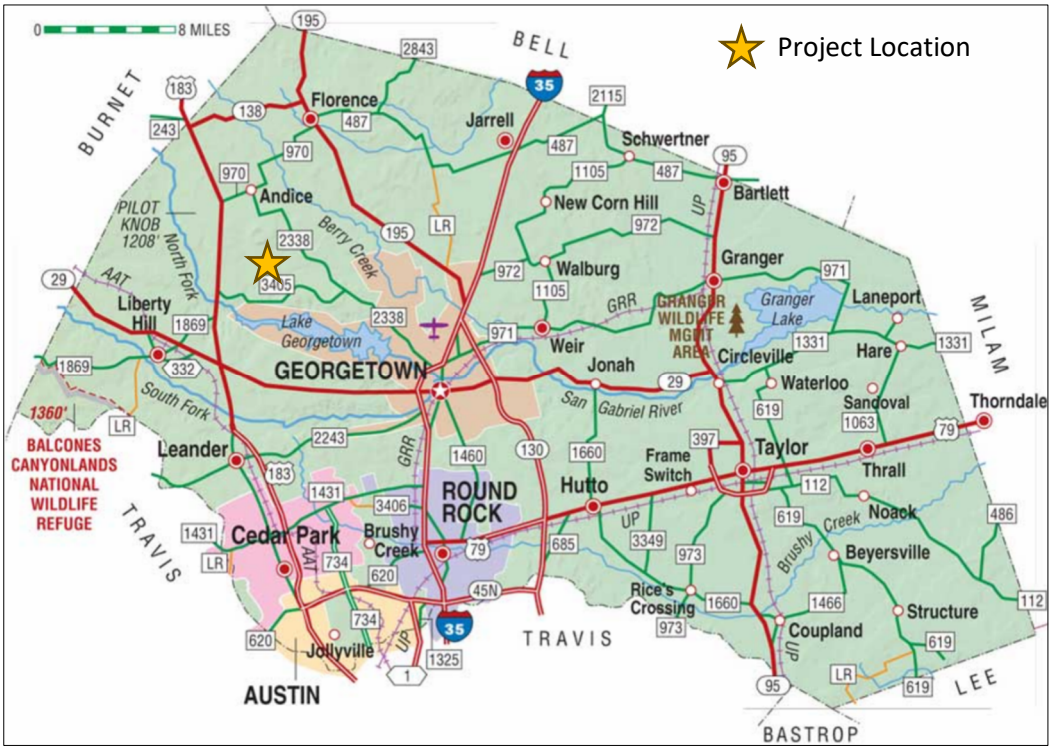
39. ☒ Submit one (1) original and one (1) copy of the application, plus one electronic copy as needed, for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ is required to distribute the additional copies to these jurisdictions.

40. The fee for the plan(s) is based on:

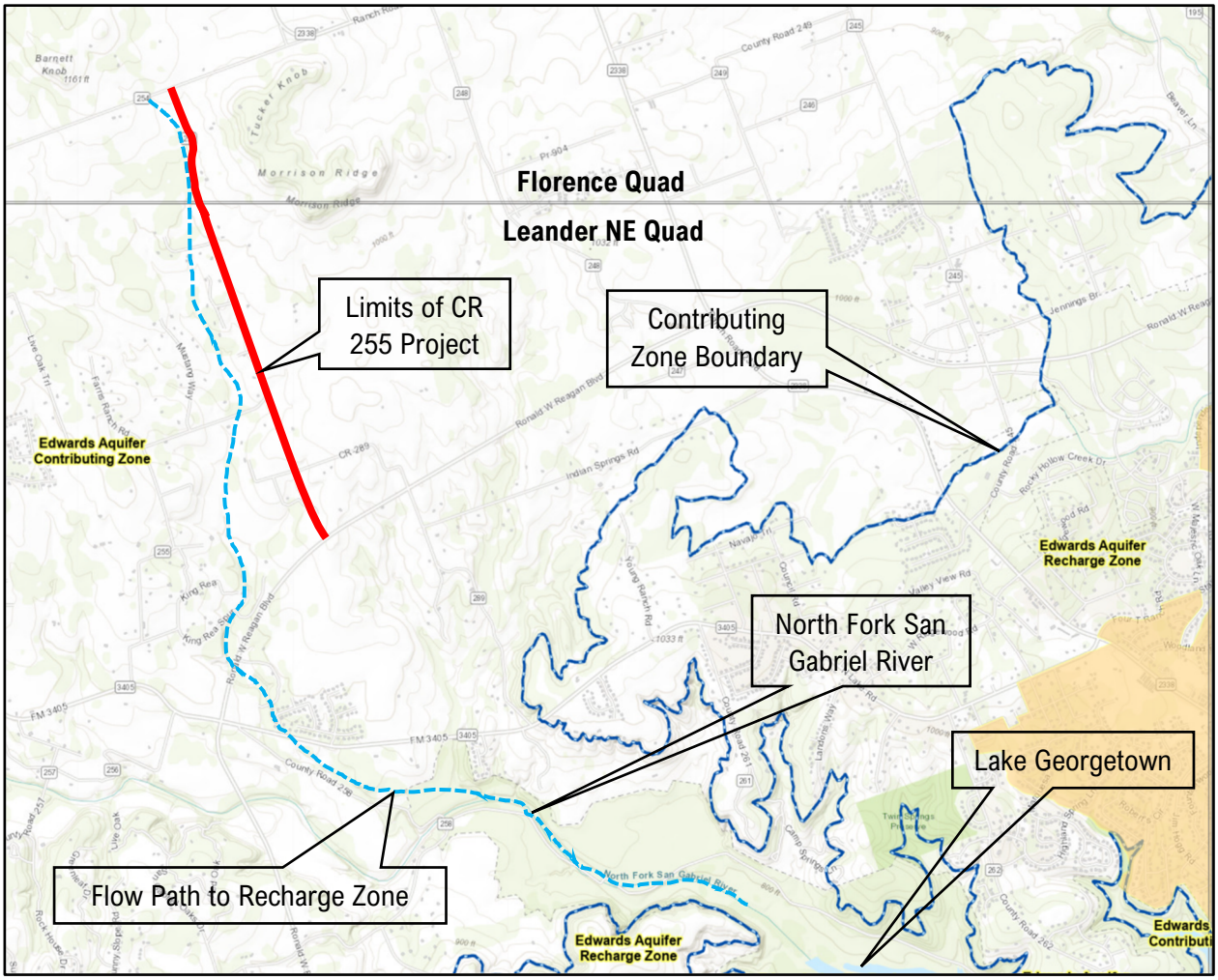
    ☒ The total R.O.W. (as in Item 17).

    ☐ TxDOT roadway project.

ATTACHMENT A – ROAD MAP



ATTACHMENT B – USGS Quadrangle Map



ATTACHMENT C - PROJECT NARRATIVE

CR 255 is an existing paved two-lane rural collector roadway located within the jurisdictional limits of Williamson County and the City of Georgetown ETJ. At its southern terminus, the roadway begins at the intersection with CR 289 and runs northwest for approximately 3.24 miles where it intersects and terminates with CR 254 just southwest of the City of Andice. The existing roadway consists of two ten-foot-wide lanes with no shoulders. Existing ditches are shallow and appear to be heavily silted up for the length of the project. There are 6 existing cross culverts along the project. There are 24" CMPs near stations 44+44, 85+00, 92+30 and 118+00. There are 18'' CMPs near stations 105+50 and 143+00. The site is not located within the 100-year floodplain as per FEMA FIRM No. 48491C0275E eff. 9/26/2008.

As part of the 2019 Road Bond Program, Williamson County is improving CR 255 from the intersection with CR 254 to Ronald Reagan Blvd. The project will remove the existing roadway from CR 254 to CR 289 and construct a new 2-lane roadway along the same alignment. The new roadway will have two 12' wide lanes with 2' wide shoulders. It will also extend and construct a new roadway from CR 289 to Ronald Reagan Blvd. This project serves as the interim phase (NB lanes) of an ultimate 6-lane median divided roadway that is planned for the future. The project is meant to improve mobility around city of Georgetown and create a more direct connection to Ronald Reagan Blvd. The area of the site is 68.48 acres with 14.84 acres of total impervious cover. The project is in the North Fork San Gabriel River watershed where offsite runoff predominately runs in a Northwest to Southeast direction.

The existing right-of-way width (ROW) varies from 38 feet to 105 feet wide along the corridor. The proposed ROW will be expanded to 135 feet. The existing roadway and drainage structures from Station 11+50 to Ronald Reagan Blvd. will be obliterated and removed.

The proposed project is entirely located within the Edwards Aquifer Contributing zone. Since the proposed roadway cross slope completely slopes to one side, Engineered Vegetative Filter Strips (VFS) will be used along the northbound embankment where storm water sheet flows off the roadway and into roadside ditches. VFS will be used to treat the necessary amount of impervious cover to adhere to TCEQ's TSS removal requirements (80% of the TSS generated from the increase in impervious cover). No BMPs will treat offsite runoff.

ATTACHMENT D – FACTORS AFFECTING SURFACE WATER QUALITY

The following factors are anticipated to adversely affect surface water and groundwater quality:

- Disturbance of vegetated areas.
- Leaking oil and fluids from parked vehicles.
- Loss of vegetative ground cover due to inadequate watering or mismanagement.
- Over fertilization of vegetated areas.
- Oil/grease/gas/fluids from the normal use of vehicles on paved roads.
- Improper use/maintenance of on-site portable restrooms.
- The accidental or improper discharge of the following:
    - Concrete
    - Heavy Metals
    - Debris
    - Pesticides
    - Cleaning solvents
    - Detergents
    - Petroleum based products
    - Paints
    - Paint solvents
    - Acids
    - Concrete additives
    - Drilling fluids

ATTACHMENT E – BMPS FOR UPGRADIENT STORMWATER

Upgradient stormwater that flows into this site is not expected to contain any significant amount of sediment. The upgradient stormwater will be intercepted by the parallel roadside ditches and culverts before reaching the roadway where it could carry possible sediments off the site. Offsite stormwater is directed around the site via the culverts and channels; permanent treatment by any BMP is unnecessary.

ATTACHMENT F – BMPS FOR ON-SITE STORMWATER

The permanent measure being proposed is Engineered Vegetative Filter Strips (VFS). The vegetative filters strips will be used along the left or westbound side of the road between the edge of pavement and the conveyance channel. The calculations showing the amount of TSS reduction in the stormwater runoff from the vegetative filter strips are attached behind this sheet.

Any small differences between the TSS values shown in the TCEQ spreadsheet versus the tabular data is strictly due to rounding. The values shown in the tables represent a more accurate computation of the required and actual TSS removal.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: CR 255 - WILCO
Date Prepared: 7/9/2024

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where:

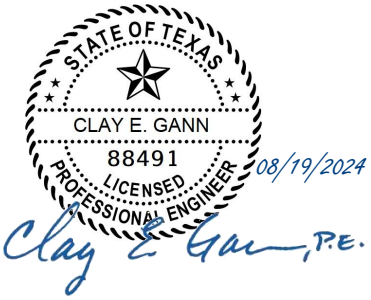
$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Williamson	
Total project area included in plan * =	68.48	acres (7.22 RR ROW)
Predevelopment impervious area within the limits of the plan* =	8.58	acres
Total post-development impervious area within the limits of the plar* =	14.84	acres
Total post-development impervious cover fraction * =	0.22	
P =	32	inches
$L_{M\ TOTAL\ PROJECT}$ =	5449	lbs.

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

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



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

Drainage Basin/Outfall Area No. =	ALL	
Total drainage basin/outfall area =	68.48	acres
Predevelopment impervious area within drainage basin/outfall area =	8.58	acres
Post-development impervious area within drainage basin/outfall area =	14.84	acres
Post-development impervious fraction within drainage basin/outfall area =	0.22	
$L_{M\ THIS\ BASIN}$ =	5449	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

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

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

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

where:

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

A_C =	6.22	acres
A_I =	6.22	acres
A_P =	0.00	acres
L_R =	5854	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = **5854** lbs.

F = **1.00**

16. Vegetated Filter Strips Designed as Required in RG-348 Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips.
The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction of flow) and
the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with maximum slope of 20% or
across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20%

If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described on Page 3-56 of RG-348.

PROJECT TSS SUMMARY									
Treatement Standard	County	Average Annual Precipitation	Drainage Area	Impervious Cover		TSS Load		TSS Removal Required	TSS Removal Actual
		P	A	A_N		L		L_M	L_R
				Exist	Prop	Exist	Prop		
		inches	*acres*	*acres*	*acres*	*lbs*	*lbs*	*lbs*	*lbs*
TCEQ	Williamson	32	68.48	8.58	14.84	10,533	17,351	5,449	5,854

CR 255 - TSS REMOVED BY BMPs WITHIN THE CONTRIBUTING ZONE							
			VFS				TOTAL TSS LOAD REMOVED
BMP ID	COUNTY	AVERAGE ANNUAL PRECIPITATION	TOTAL AREA	IMPERVIOUS COVER	BMP EFFICIENCY	TSS LOAD REMOVED	
		P	A	A_I		L_R	L_R
			ACRES	*ACRES*	*%*	*LBS*	*LBS*
VFS-1	WILLIAMSON	32	0.61	0.61	85	574	574
VFS-2	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-3	WILLIAMSON	32	0.24	0.24	85	226	226
VFS-4	WILLIAMSON	32	0.36	0.36	85	339	339
VFS-5	WILLIAMSON	32	0.03	0.03	85	28	28
VFS-6	WILLIAMSON	32	0.37	0.37	85	348	348
VFS-7	WILLIAMSON	32	0.15	0.15	85	141	141
VFS-8	WILLIAMSON	32	0.15	0.15	85	141	141
VFS-9	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-10	WILLIAMSON	32	0.19	0.19	85	179	179
VFS-11	WILLIAMSON	32	0.61	0.61	85	574	574
VFS-12	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-13	WILLIAMSON	32	0.04	0.04	85	38	38
VFS-14	WILLIAMSON	32	0.13	0.13	85	122	122
VFS-15	WILLIAMSON	32	0.06	0.06	85	56	56
VFS-16	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-17	WILLIAMSON	32	0.18	0.18	85	169	169
VFS-18	WILLIAMSON	32	0.28	0.28	85	264	264
VFS-19	WILLIAMSON	32	0.13	0.13	85	122	122
VFS-20	WILLIAMSON	32	0.07	0.07	85	66	66
VFS-21	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-22	WILLIAMSON	32	0.32	0.32	85	301	301
VFS-23	WILLIAMSON	32	0.41	0.41	85	386	386
VFS-24	WILLIAMSON	32	0.43	0.43	85	405	405
VFS-25	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-26	WILLIAMSON	32	0.50	0.50	85	471	471
TOTAL							**5,854**

ATTACHMENT G – CONSTRUCTION PLANS

- See Erosion Control Sheets for locations of temporary BMPs.
- See Water Quality Site Plans and Typical Section Sheets for VFS locations.

100% SUBMITTAL

WILLIAMSON COUNTY

CR 255
PRECINCT NUMBER 3

WILLIAMSON COUNTY PROJECT NO.24IFBXX

NET LENGTH OF ROADWAY = 15,254.49 FT (2.88 MILES)
NET LENGTH OF BRIDGES = 0.00 FT (0.000 MILES)
NET LENGTH OF PROJECT = 15,254.49 FT (2.88 MILES)

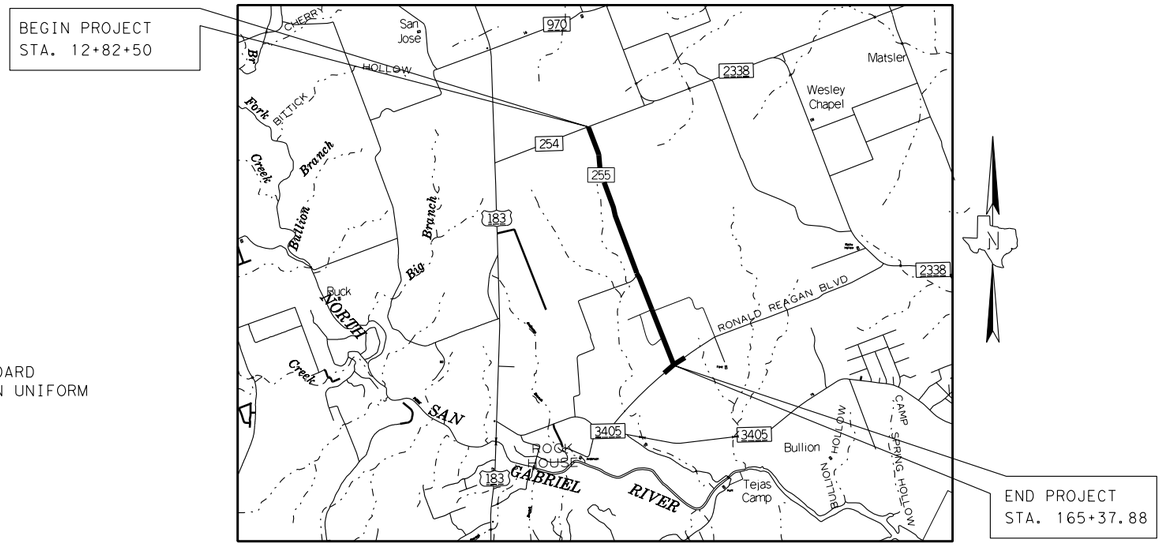
LIMITS: FROM CR 254 TO RONALD REAGAN BOULEVARD
IN WILLIAMSON COUNTY.

FOR THE CONSTRUCTION OF THE EARTHWORK,
GRADING, DRAINAGE & STRUCTURES, BASE COURSE,
ASPHALTIC CONCRETE PAVEMENT AND PAVEMENT MARKINGS.

FUNCTIONAL CLASSIFICATION	= MINOR COLLECTOR
DESIGN SPEED	= 45 MPH
ADT (2015)	= 1800
DHV (2015)	= 180
ADT (2035)	= 3600
DHV (2035)	= 360

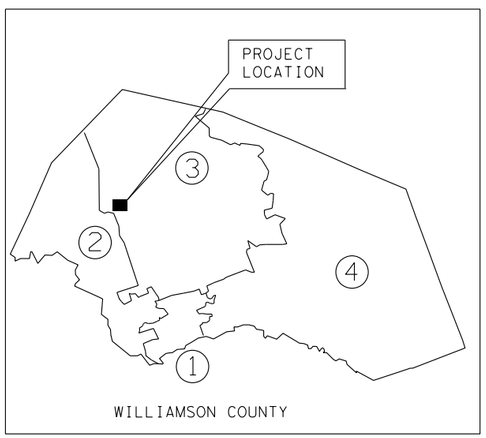
255 DESIGN SPEED = 30 MPH
CR 289 & BIG VALLEY SPUR DESIGN SPEED = 30 MPH
POWDER HORN DESIGN SPEED = 25 MPH
RONALD REAGAN BLVD DESIGN SPEED = 60 MPH

INDEX OF SHEETS



VICINITY MAP
N.T.S.

REQUIRED SIGNS SHALL BE PLACED IN ACCORDANCE WITH STANDARD SHEETS BC(1)-21 THRU BC(12)-21 AND THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.:



TxDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES ADOPTED ON NOVEMBER 1, 2014 AND ALL APPLICABLE SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS AS INDICATED IN THE BID DOCUMENTS SHALL GOVERN ON THIS PROJECT.

EXCEPTIONS: NONE
EQUATIONS: NONE
RAILROAD CROSSINGS: NONE
WATERSHED: NORTH FORK OF SAN GABRIEL RIVER
AREA OF DISTURBANCE: 57.1 ACRES

PREPARED BY:
SEILER LANKES GROUP(DESIGN CONSULTANT)

GERALD LANKES, PE
PROJECT MANAGER — DATE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

APPROVED AND RECOMMENDED FOR CONSTRUCTION:

J. TERRON EVERTSON, P.E. — DATE
DIRECTOR OF ROAD AND BRIDGE DIVISION
WILLIAMSON COUNTY

APPROVED BY:
HNTB CORPORATION

CHRISTEN ESCHBERGER, PE — DATE
ROAD BOND MANAGEMENT TEAM

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THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY * HAVE BEEN SELECTED Y ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT

STATE OF TEXAS
GERALD A. LANKES
107484
PROFESSIONAL ENGINEER
LICENSED
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255

INDEX OF SHEETS

SHEET 1 OF 1

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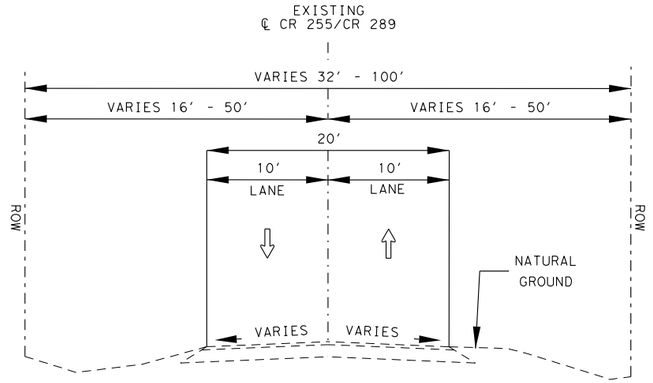
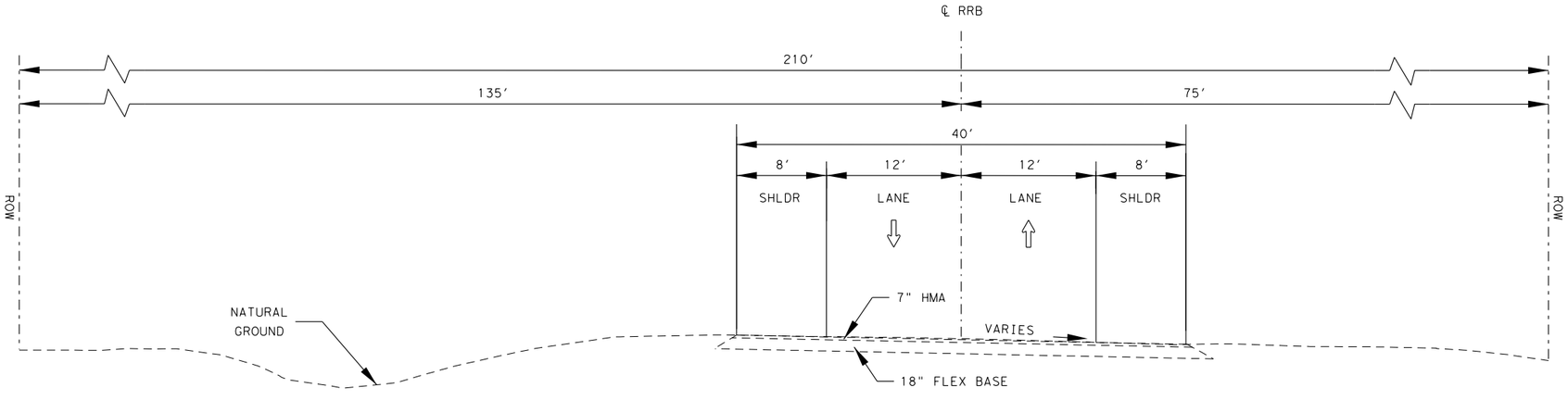


EXISTING TYPICAL SECTION FOR CR 255 STA. 12+83.39 TO STA. 116+00.00
CR 289 STA. 116+00.00 TO STA. 141+00.00
BON WINDE STA. 10+00.00 TO 11+12.61
HILL TOP SPRINGS STA. 10+40.00 TO 11+41.73
DANIEL MOUNTAIN STA. 10+34.00 TO 11+28.90
BIG OAKS STA. 10+00.00 TO 10+84.77
TIMBER RANCH/LOST SPRING LAKE STA. 11+26.00 TO 12+00.00 AND STA. 12+28.00 TO 12+70.81
POWDER HORN STA. 10+00.00 TO 12+40.00
255 STA. 11+84.25 TO STA. 13+63.56
BIG VALLEY SPUR / CR 289 STA. 11+02.58 TO STA. 13+24.76 AND STA. 13+43.89 TO STA 16+28.00



EXISTING TYPICAL SECTION FOR RONALD REAGAN BLVD
STA. 10+00.00 TO STA. 30+98.33

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

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WILLIAMSON COUNTY
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TBPE License No. 12670
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CR 255
EXISTING
TYPICAL SECTIONS

SHEET 1 OF 1

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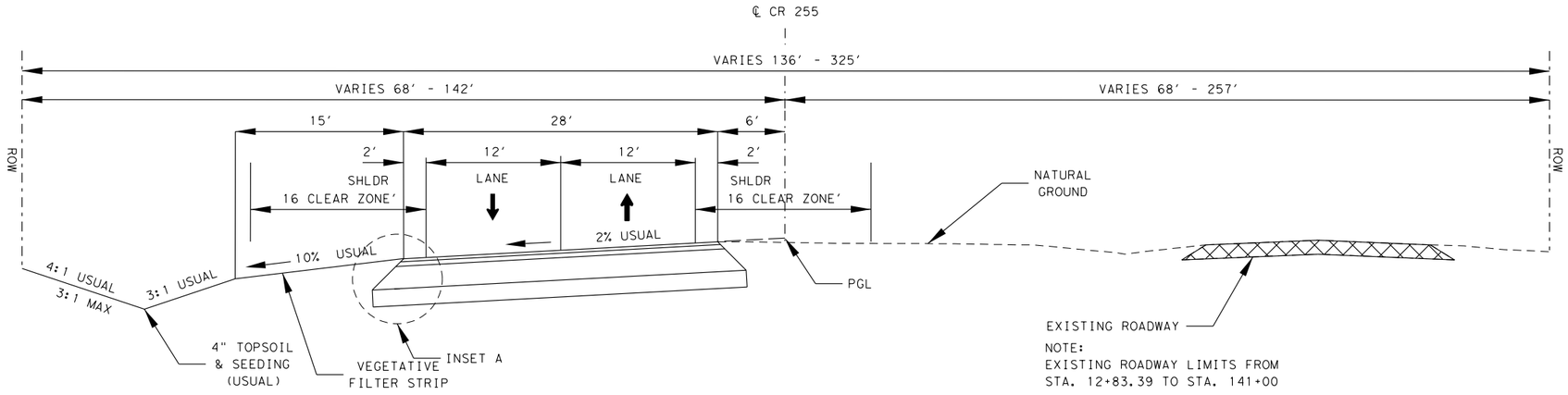

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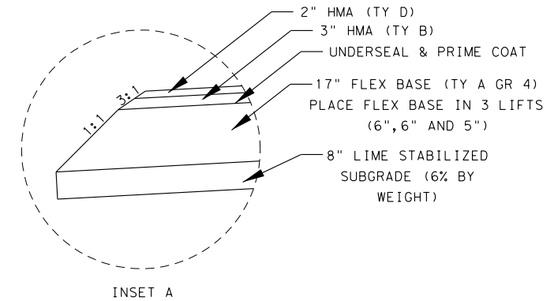
STA. 82+38.32 TO STA. 158+00.00



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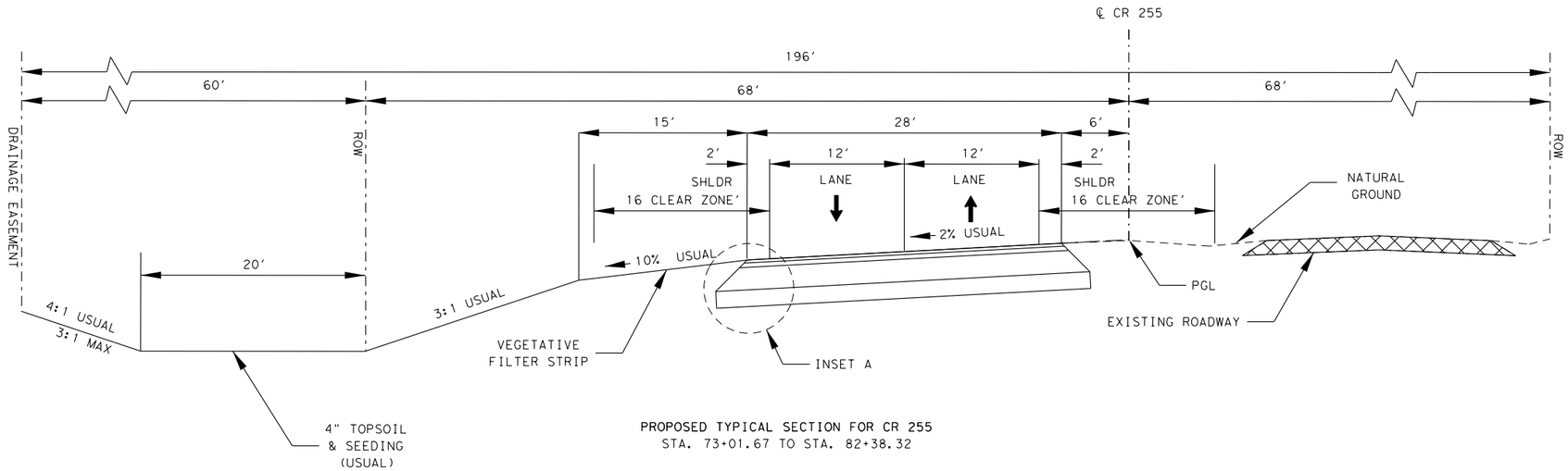

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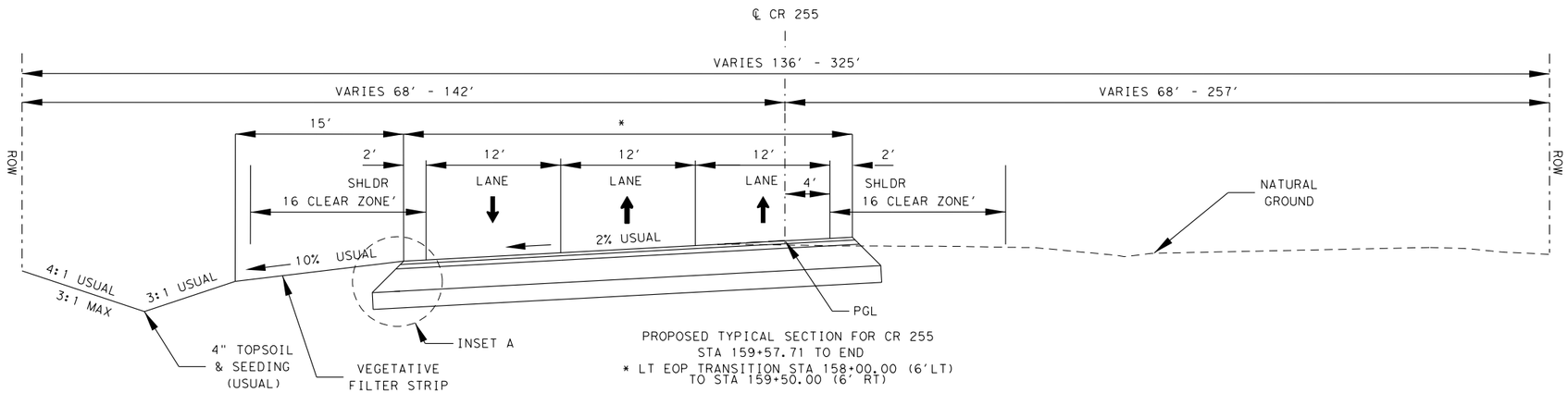
STA. 73+01.67 TO STA. 82+38.32



PROPOSED TYPICAL SECTION FOR CR 255
STA 159+57.71 TO END
* LT EOP TRANSITION STA 158+00.00 (6'LT)
TO STA 159+50.00 (6' RT)

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

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Seiler Lankes Group
TBPE License No. 12670
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CR 255
PROPOSED
TYPICAL SECTIONS

SHEET 1 OF 2

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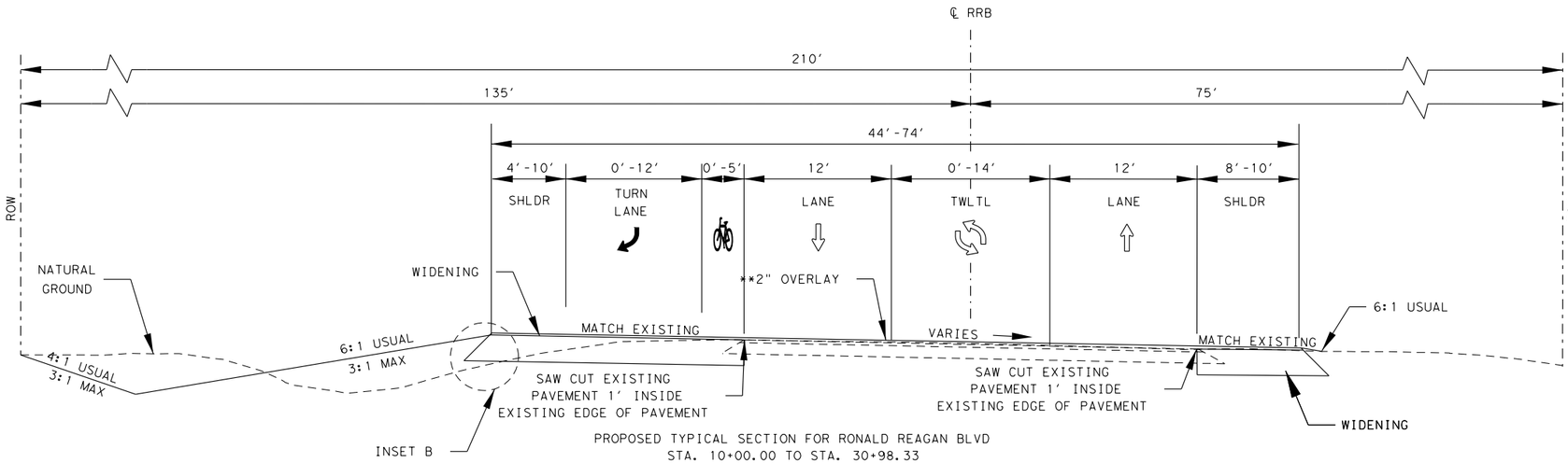
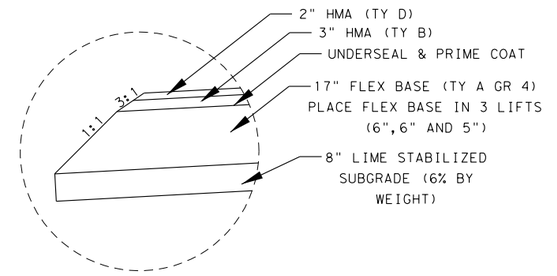


PROPOSED TYPICAL SECTION FOR RONALD REAGAN BLVD
STA. 10+00.00 TO STA. 30+98.33

** PLACE TACK COAT ON EXISING RONALD REAGAN PRIOR TO PLACING OVERLAY. TACK COAT IS CONSIDERED SUBSIDIARY TO VARIOUS BID ITEMS.



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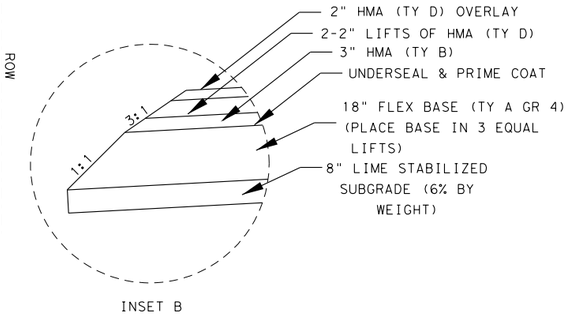

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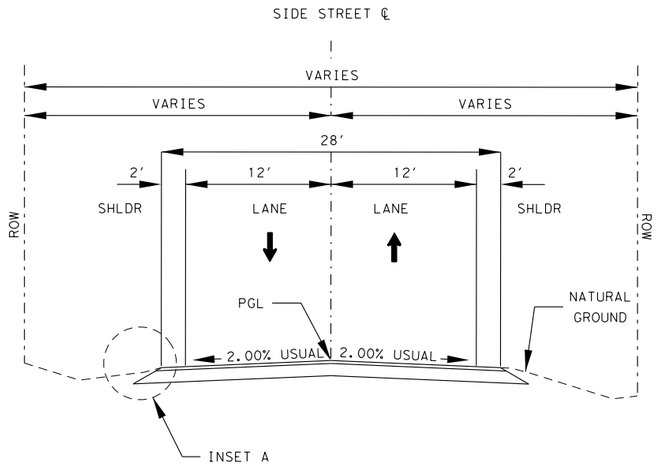

BON WINDE STA. 10+00.00 TO 11+12.61
HILL TOP SPRINGS STA. 10+40.00 TO 11+41.73
DANIELS MOUNTAIN STA. 10+34.00 TO 11+28.90
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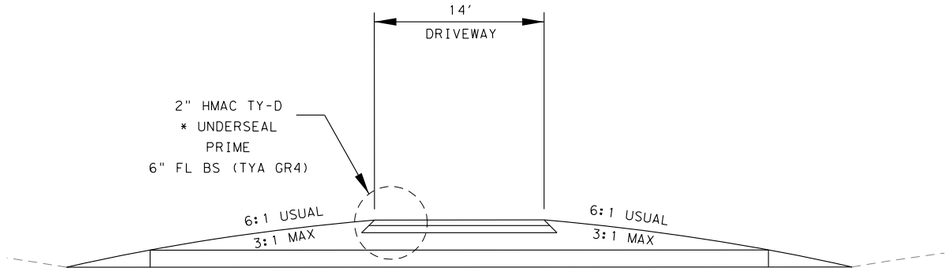
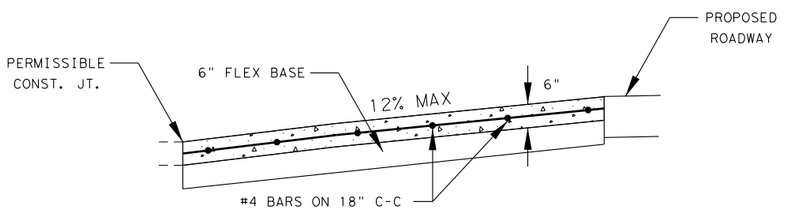
BIG VALLEY SPUR / CR 289 STA. 11+02.58 TO STA. 13+24.76 AND STA. 13+43.89 TO STA 16+28.00



PROPOSED DRIVEWAY TYPICAL SECTION
* ASPHALT, AGGREGATE (TY D, GR 5)



PROPOSED CONCRETE DRIVEWAY DETAIL

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
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CR 255 PROPOSED TYPICAL SECTIONS

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			9

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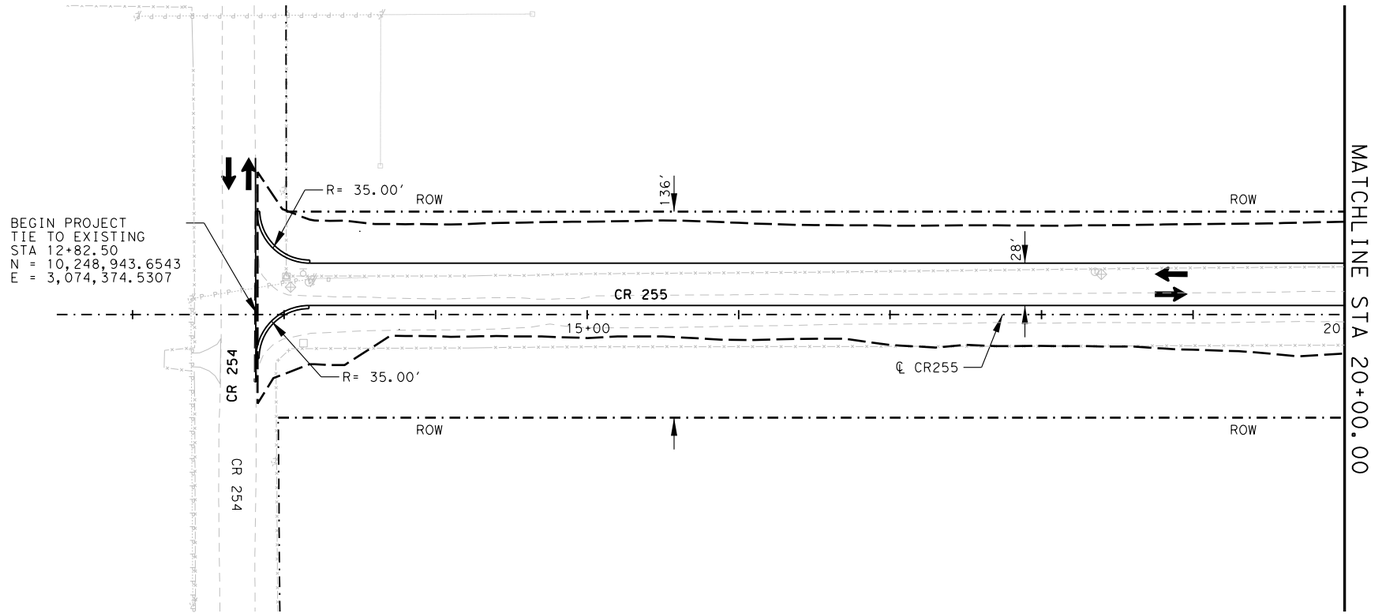


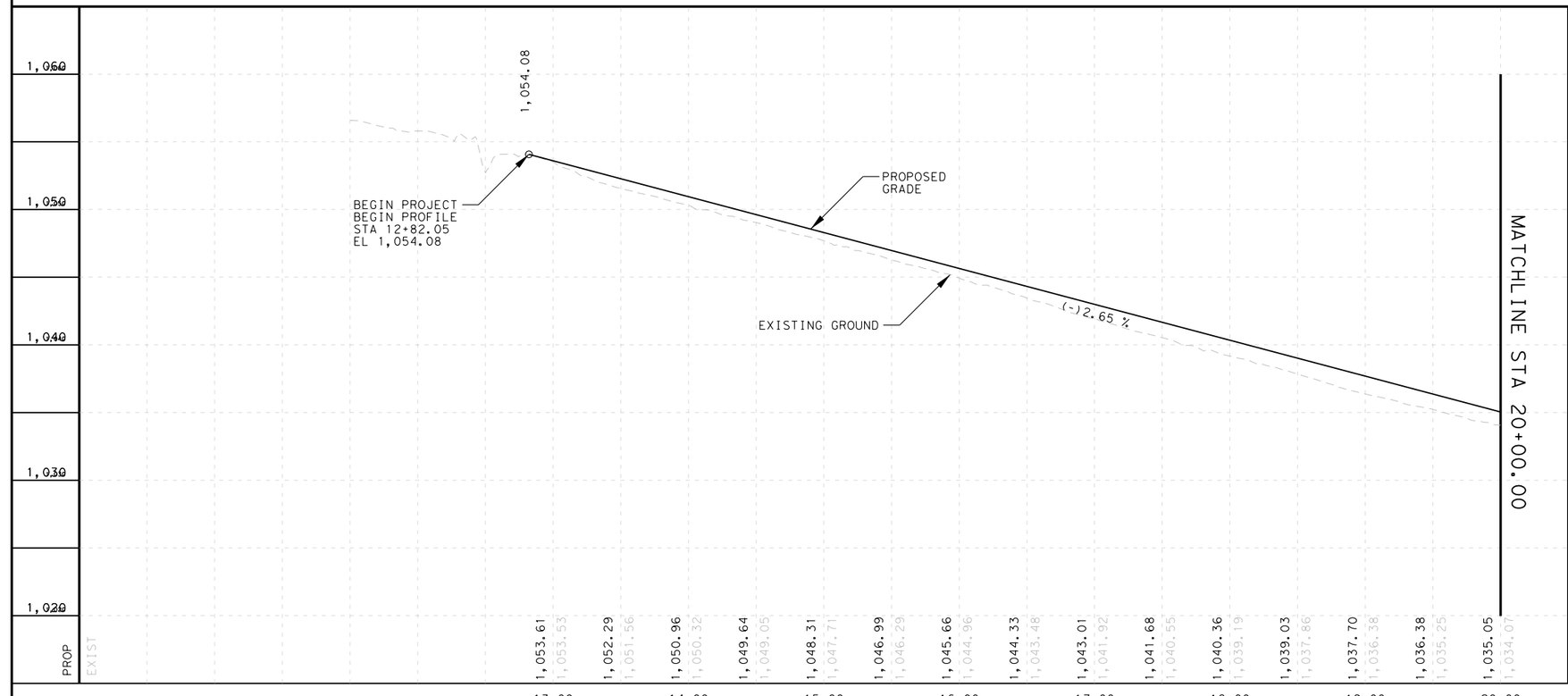
0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

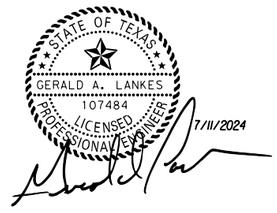
LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
2. THERE ARE EXISTING UNDERGROUND UTILITIES ALONG AND ACROSS THE ROW AT VARYING DEPTHS WITHIN THE PROJECT LIMITS. CONTRACTOR MUST VERIFY THEIR LOCATION AND PERFORM CONSTRUCTION OPERATIONS IN A MANNER TO AVOID THEM.





WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
BEGINNING TO STA 20+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 1 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
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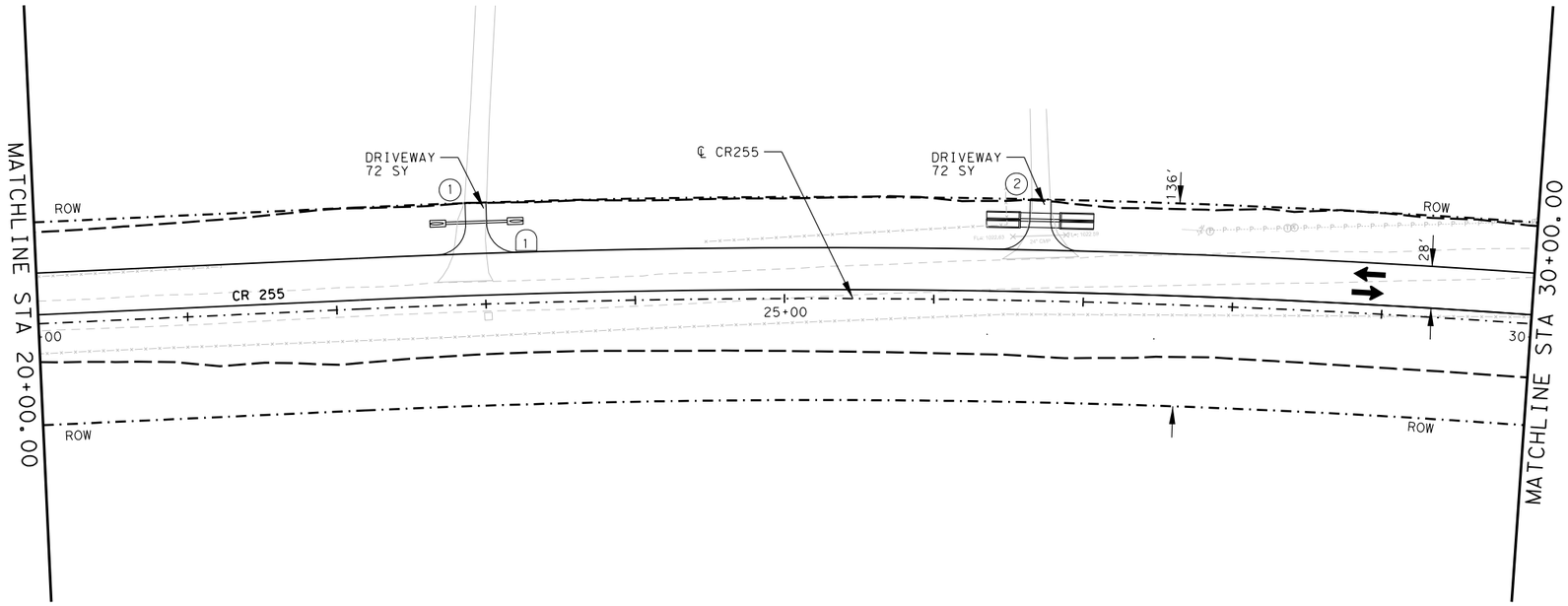


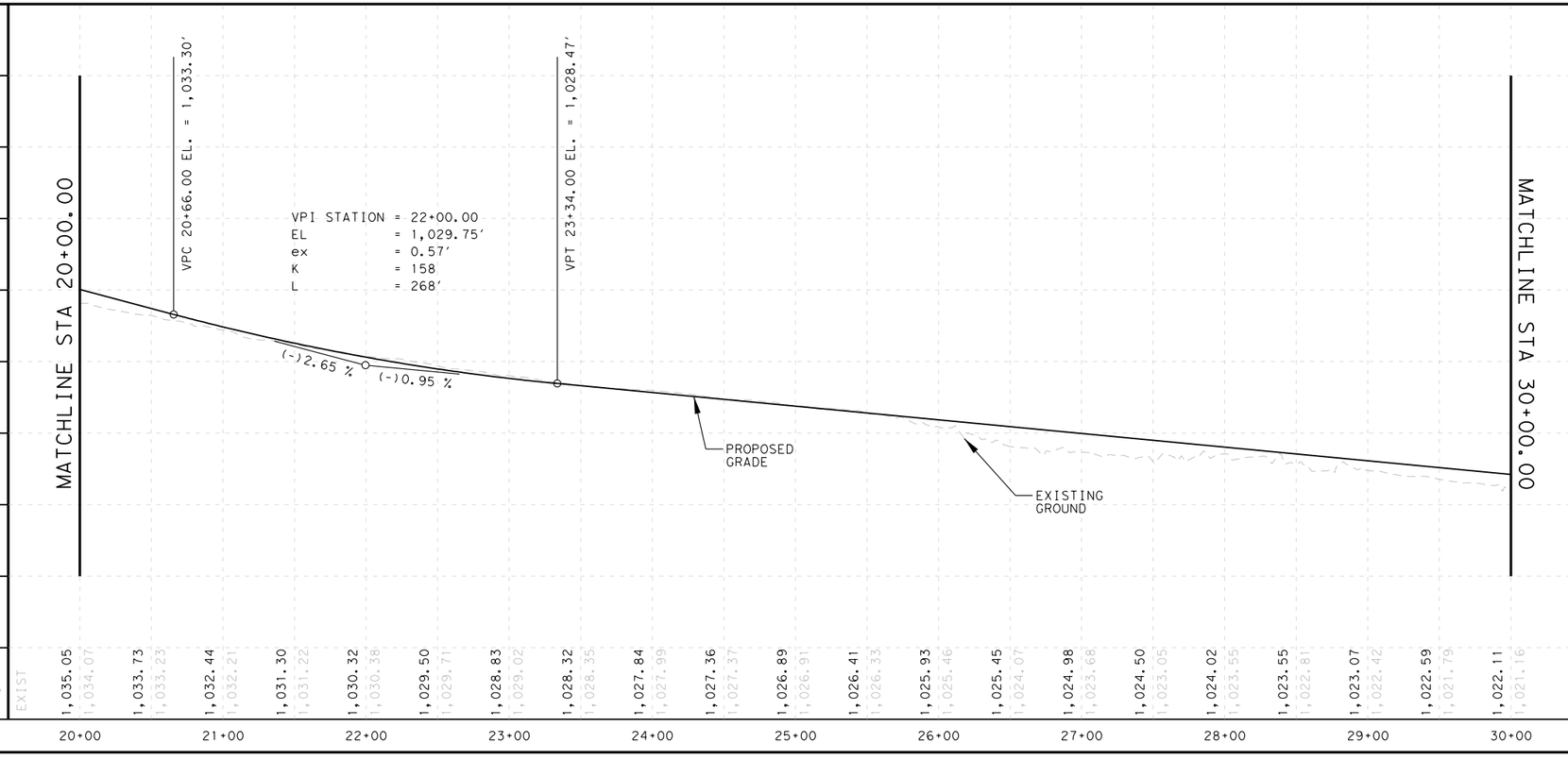
0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- [#] MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
2. THERE ARE EXISTING UNDERGROUND UTILITIES ALONG AND ACROSS THE ROW AT VARYING DEPTHS WITHIN THE PROJECT LIMITS. CONTRACTOR MUST VERIFY THEIR LOCATION AND PERFORM CONSTRUCTION OPERATIONS IN A MANNER TO AVOID THEM.



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 20+00 TO STA 30+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 2 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			103

USER: glankes
DATE: 7/11/2024 8:18
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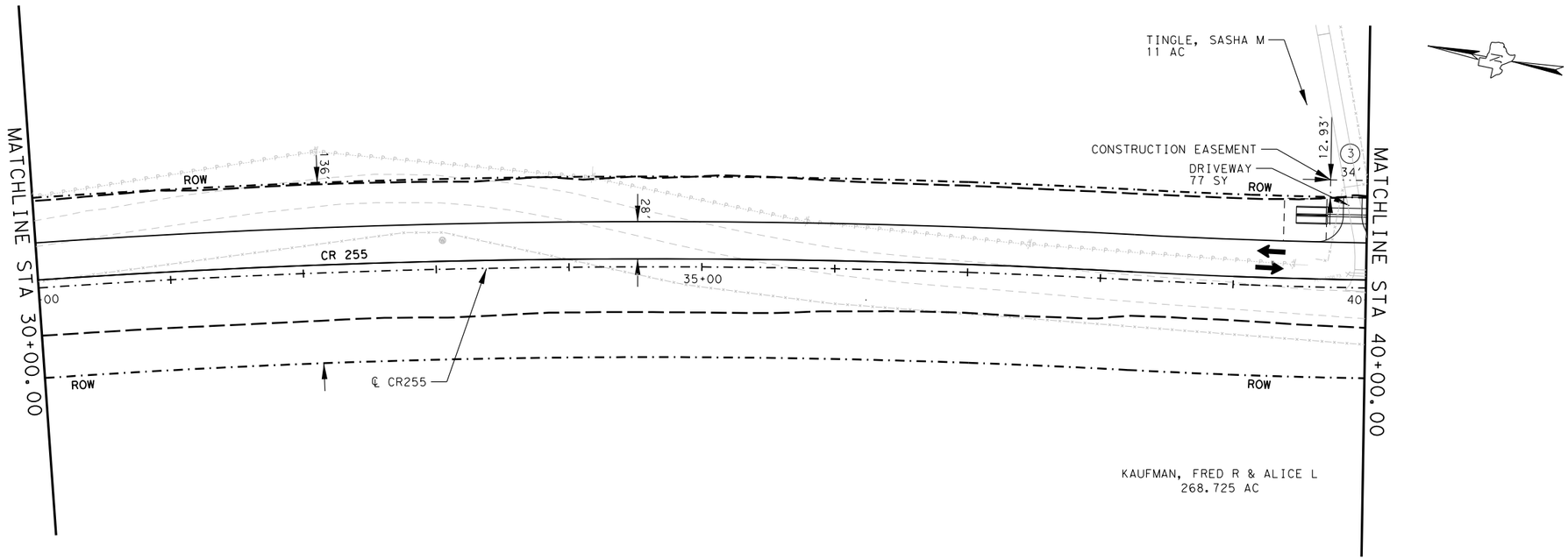

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
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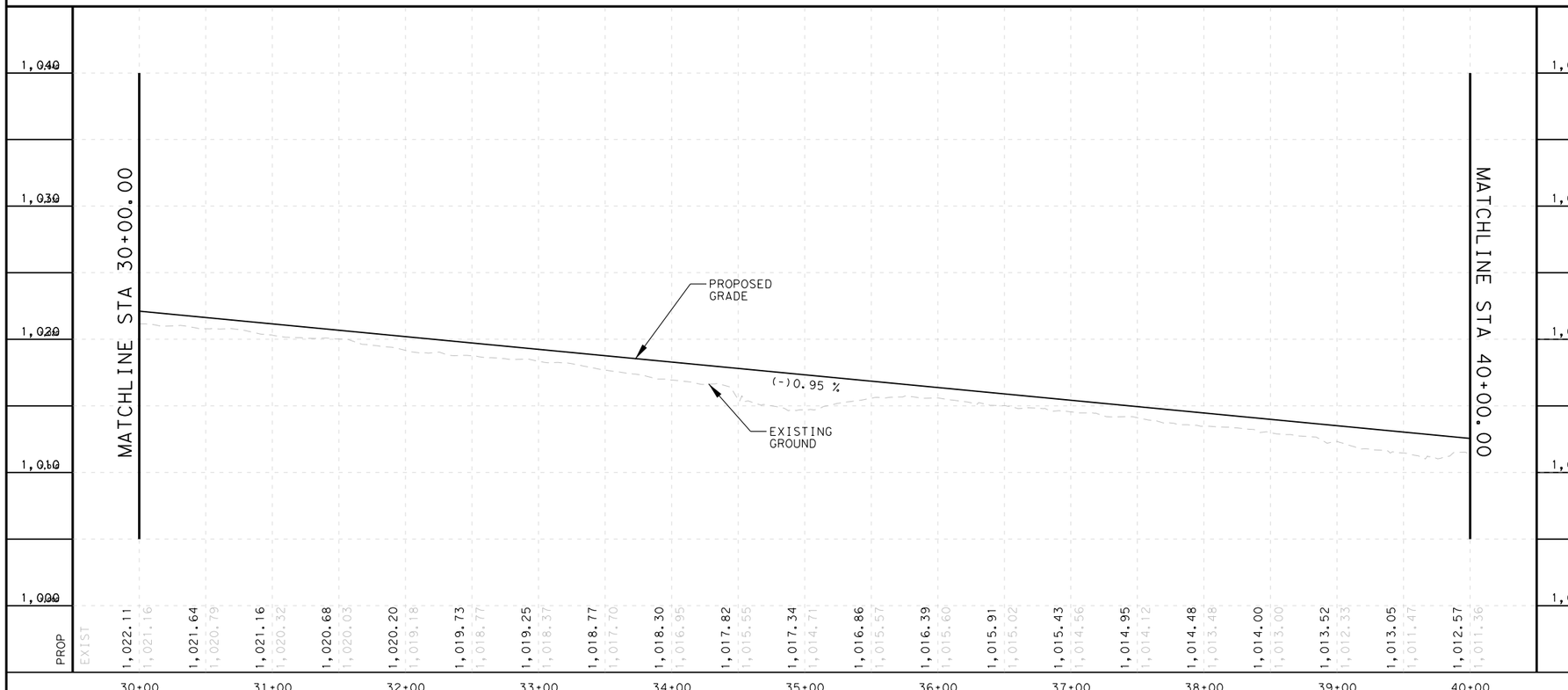

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

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TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 30+00 TO STA 40+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 3 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			104

USER: glankes
DATE: 7/11/2024 8:18
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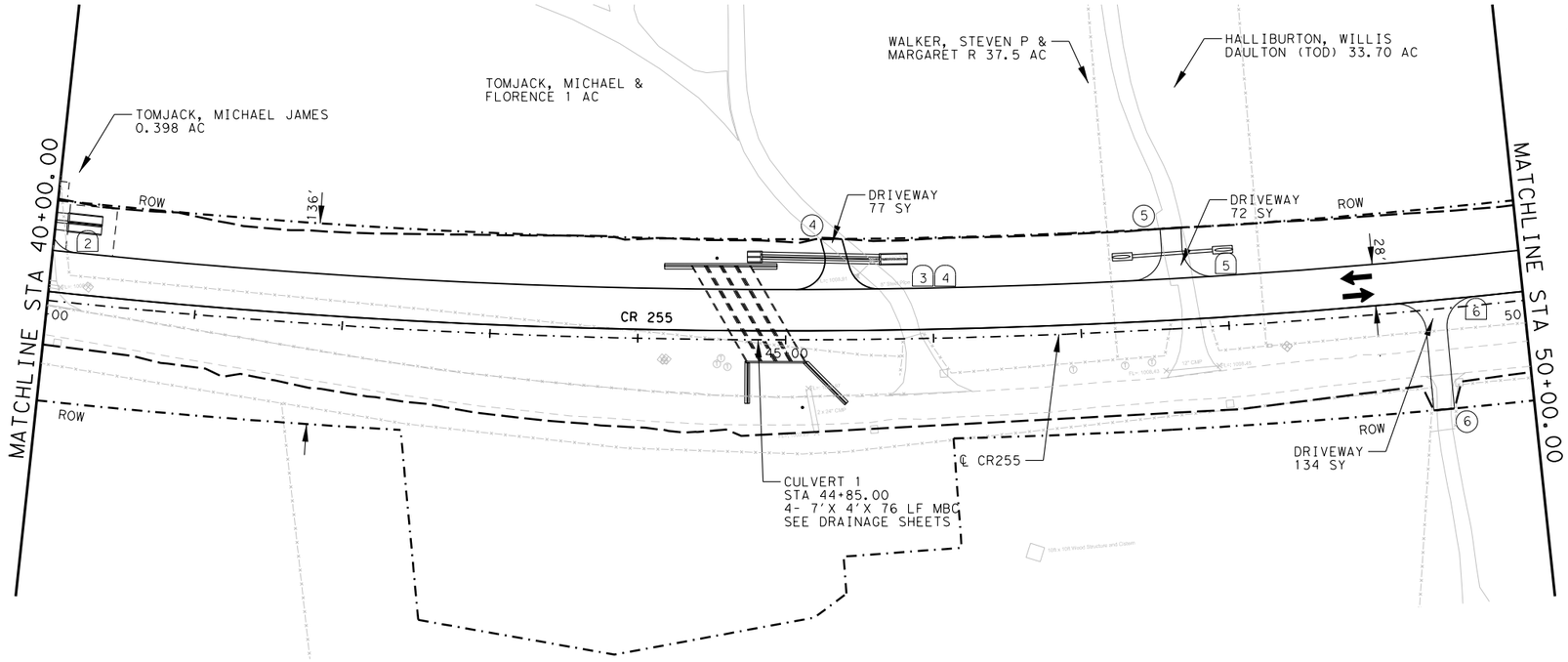

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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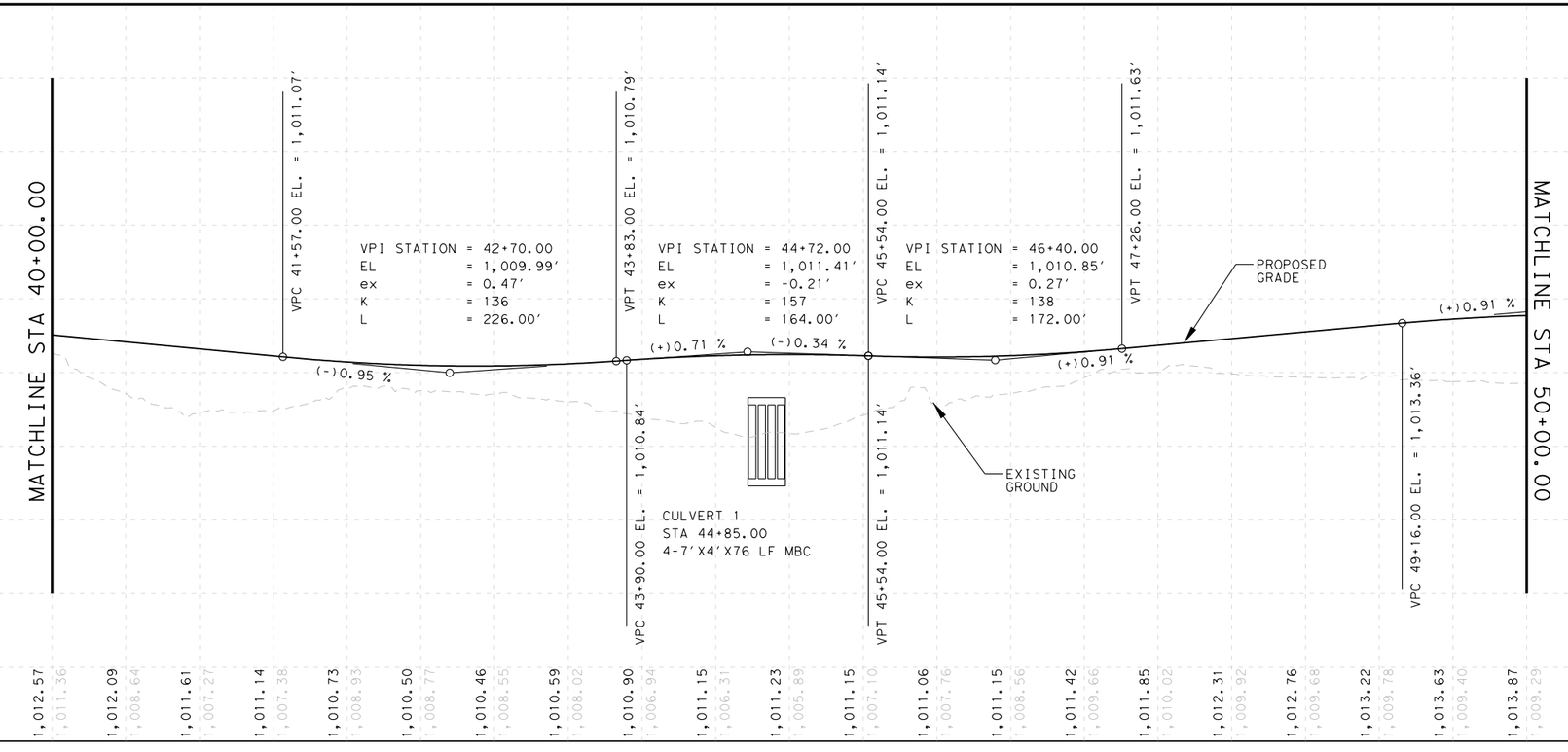

STATE OF TEXAS
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7/11/2024

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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 40+00 TO STA 50+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 4 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			105

USER: glankes
DATE: 7/11/2024 8:18
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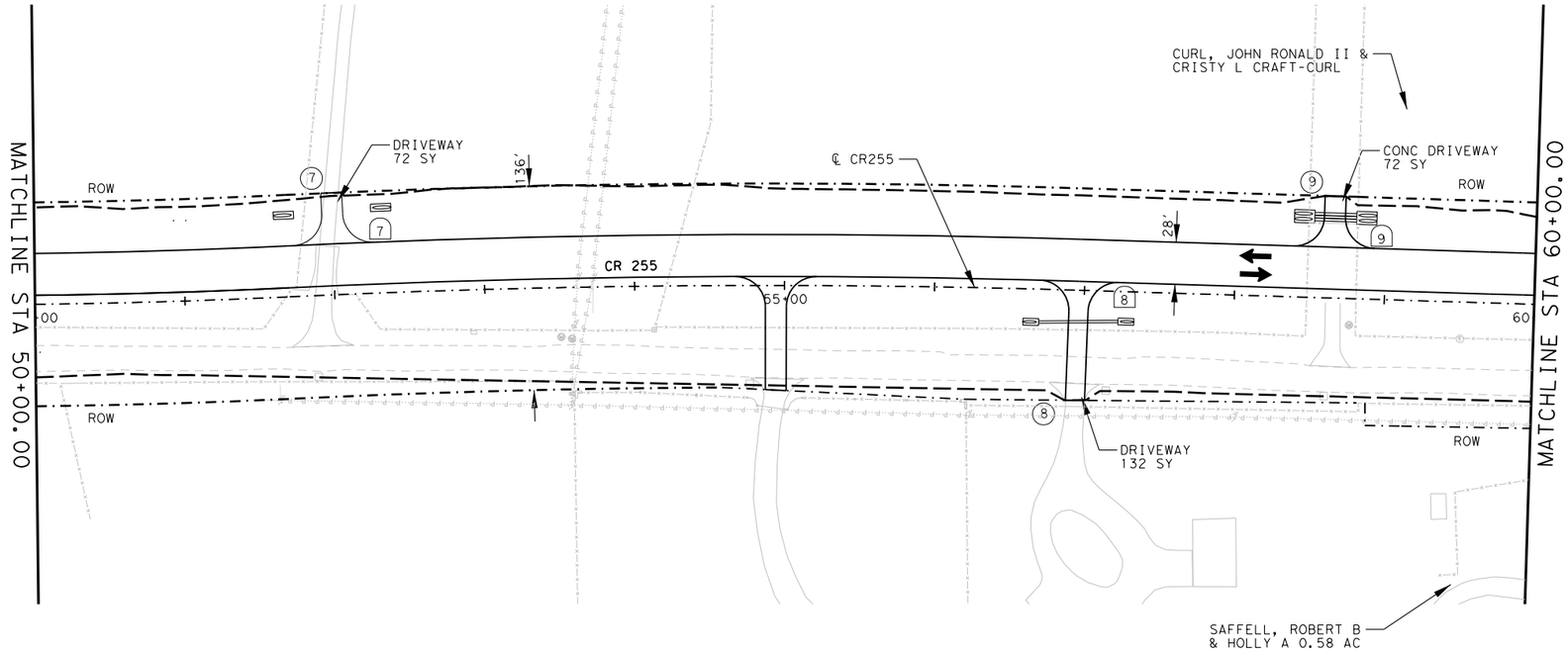

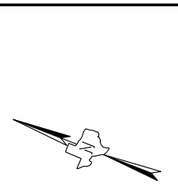

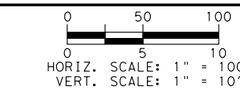

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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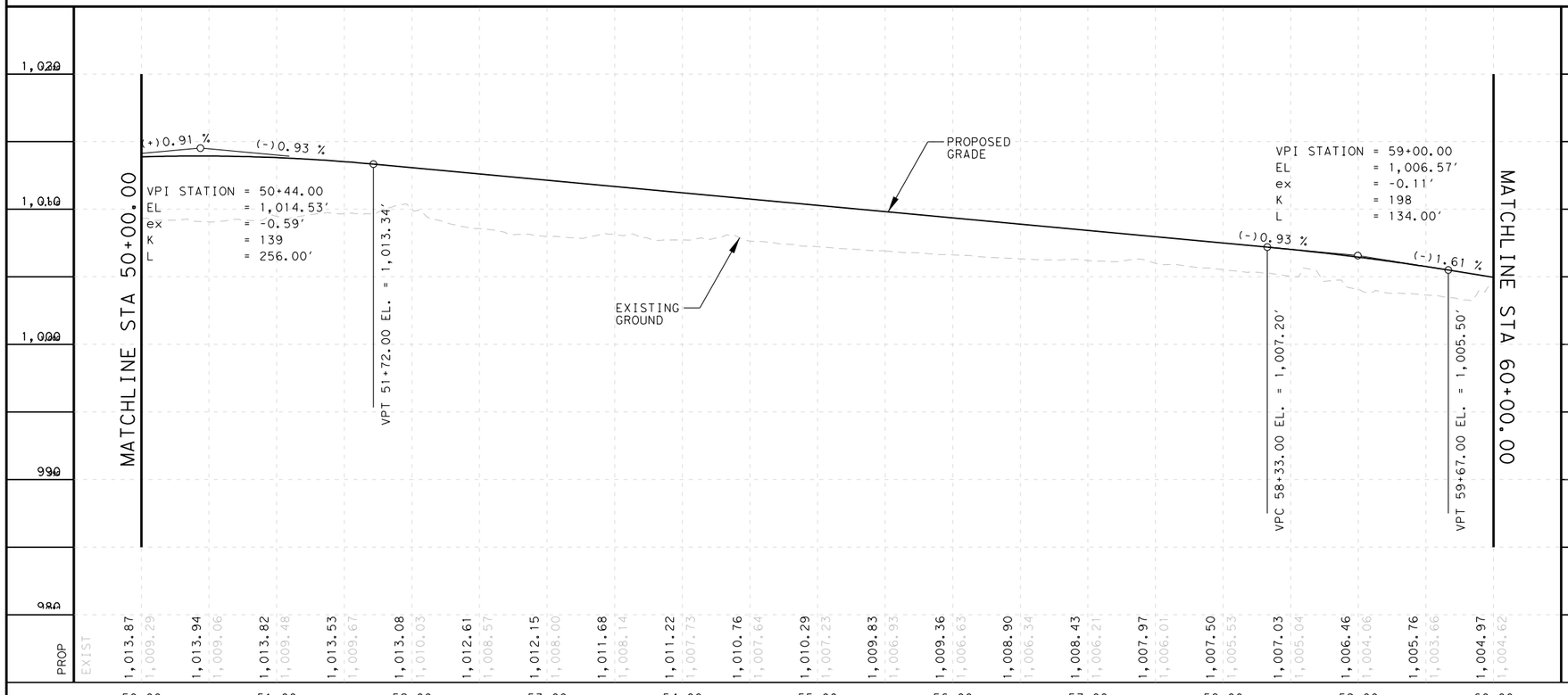

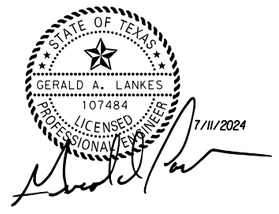

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 50+00 TO STA 60+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 5 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			106

USER: glankes
DATE: 7/11/2024 8:18
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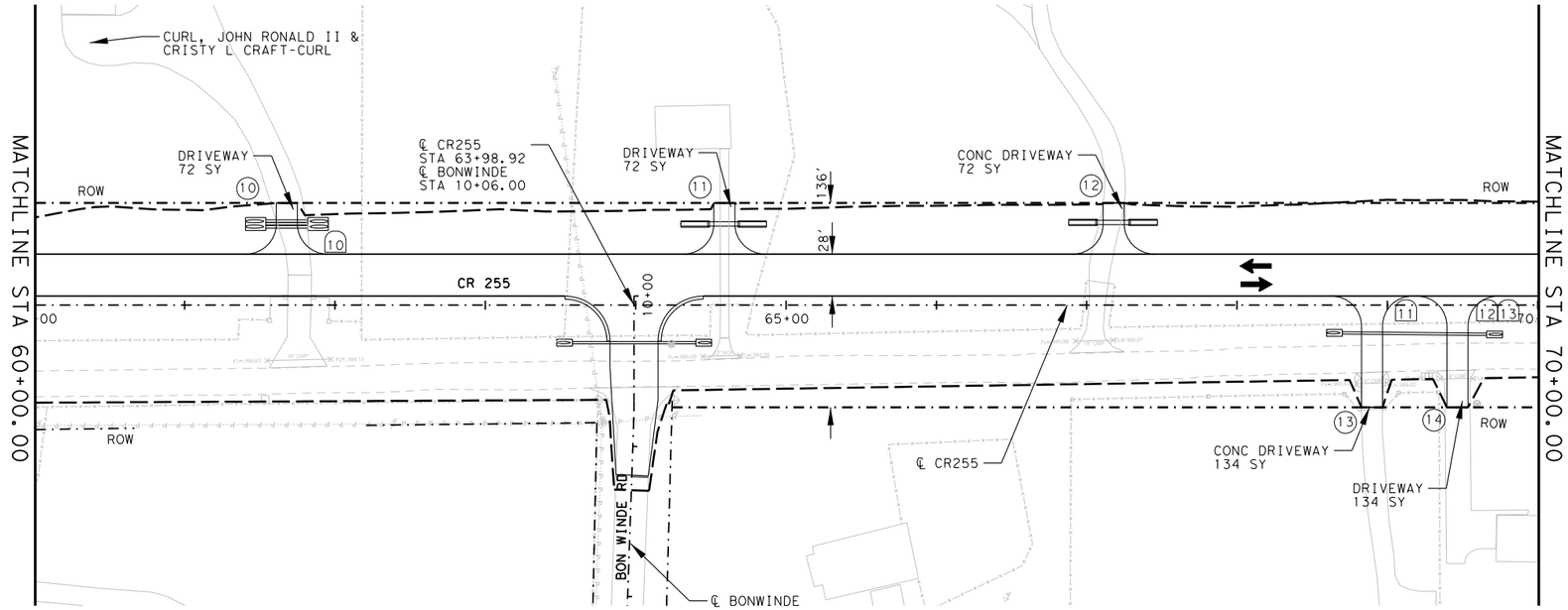

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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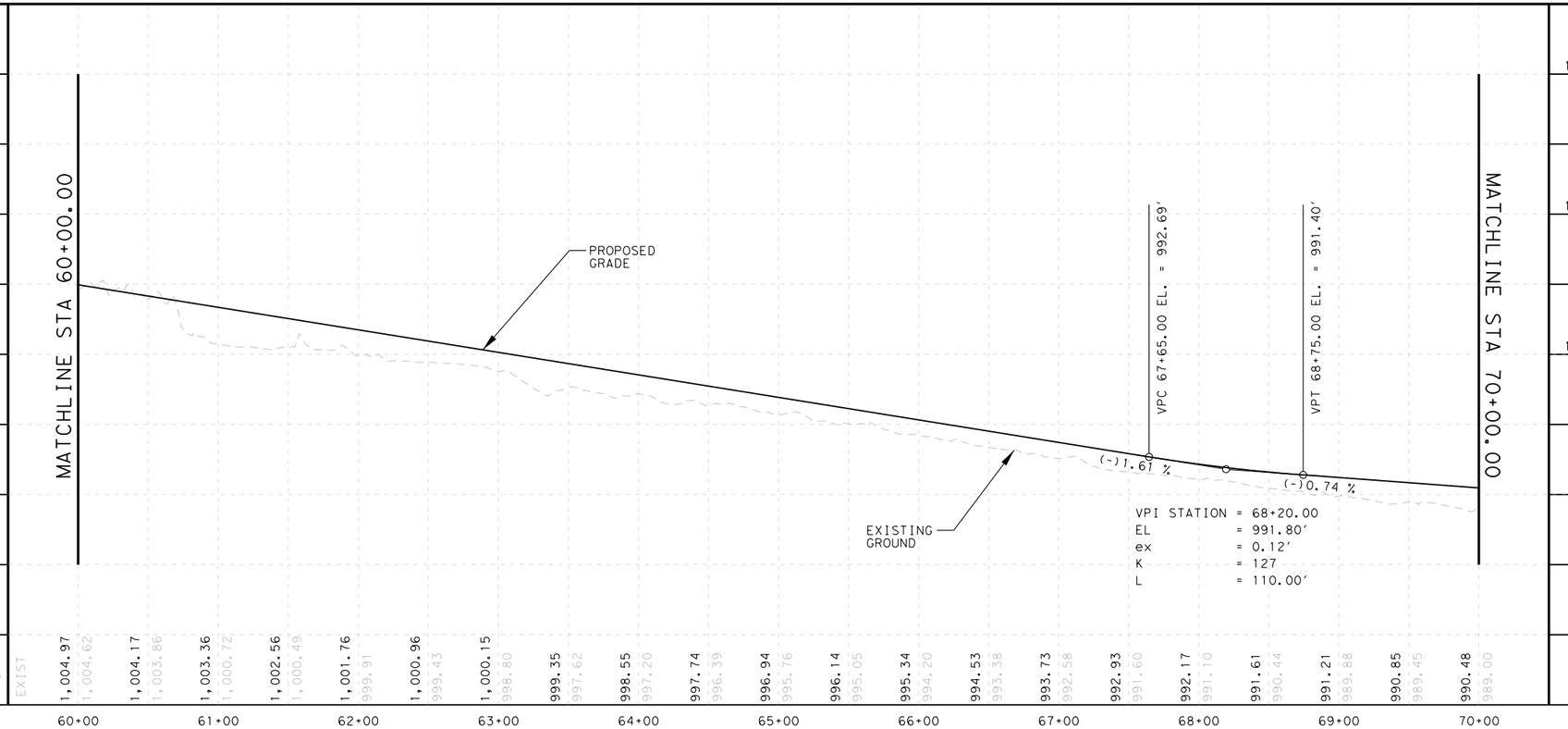

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 60+00 TO STA 70+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 6 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			107

USER: glankes
DATE: 7/11/2024 8:18
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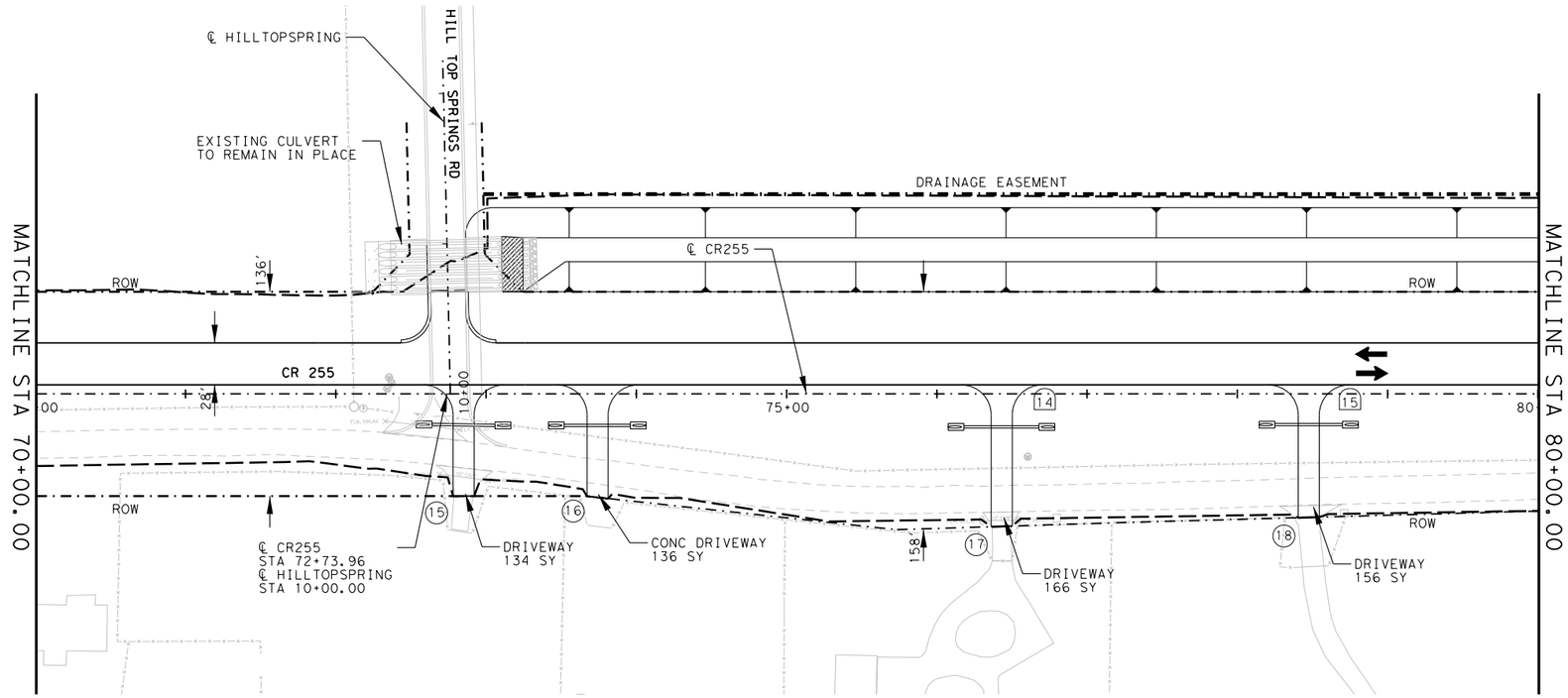

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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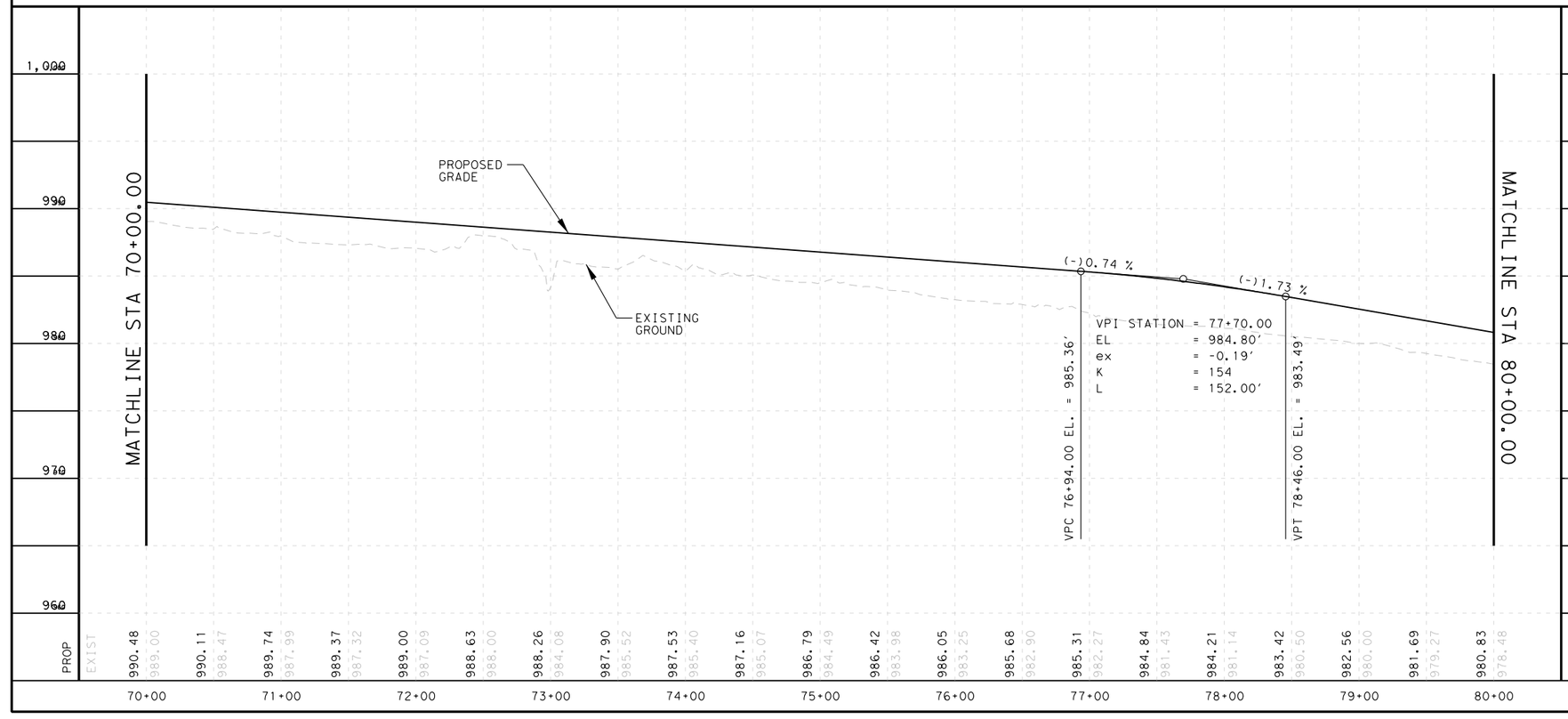

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 70+00 TO STA 80+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			108

USER: glankes
DATE: 7/11/2024 8:18
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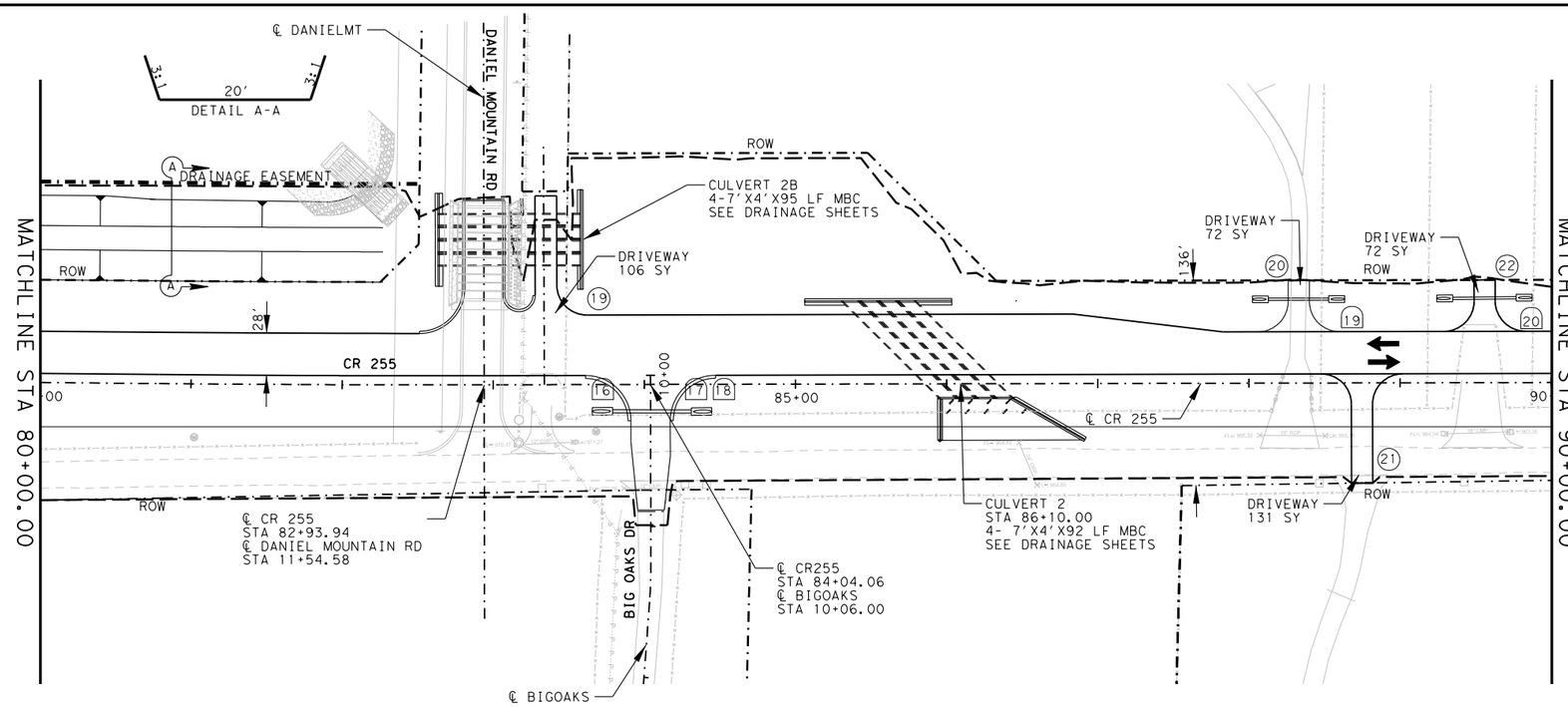

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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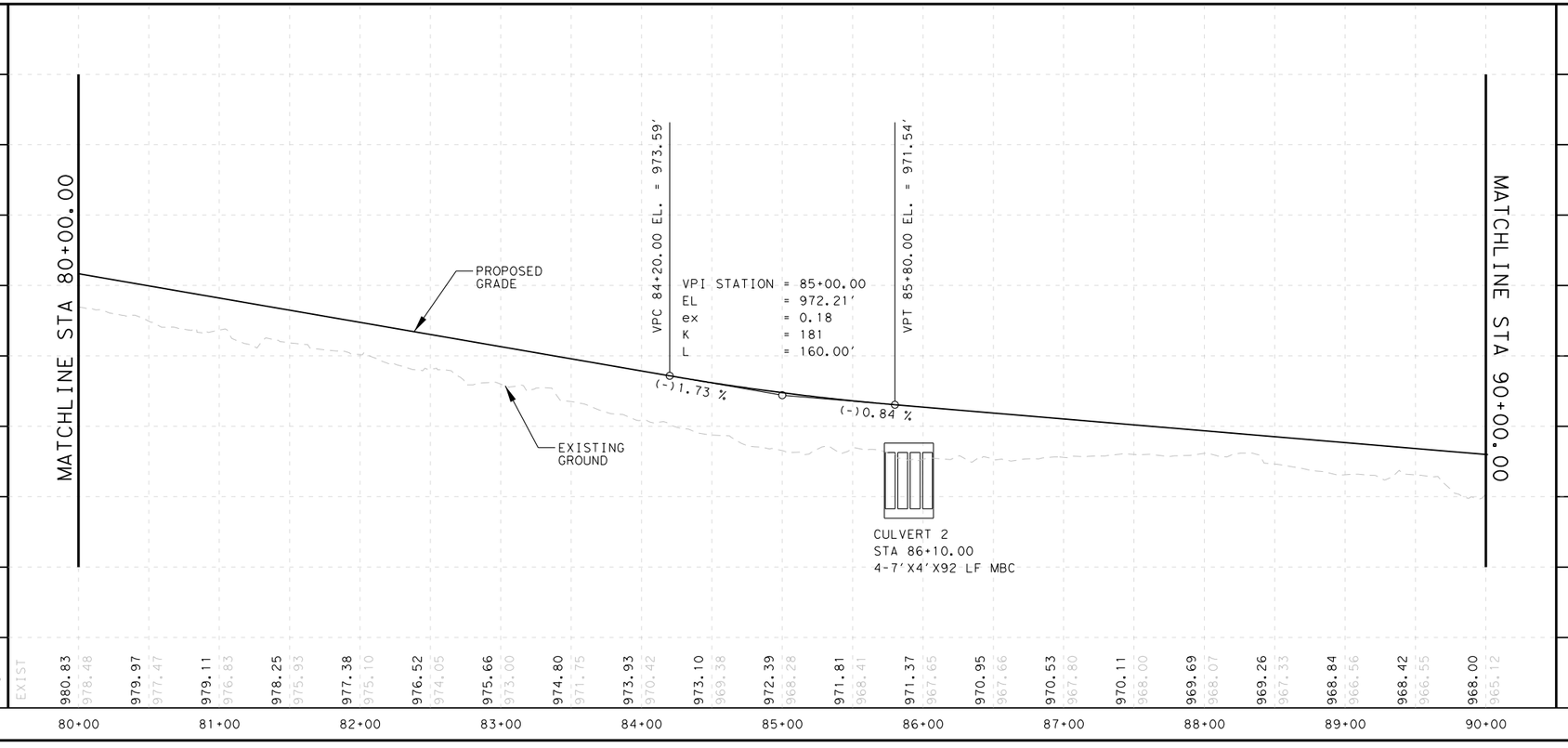

STATE OF TEXAS
GERALD A. LANKES
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LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 80+00 TO STA 90+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 8 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			109

USER: glankes
DATE: 7/11/2024 8:18
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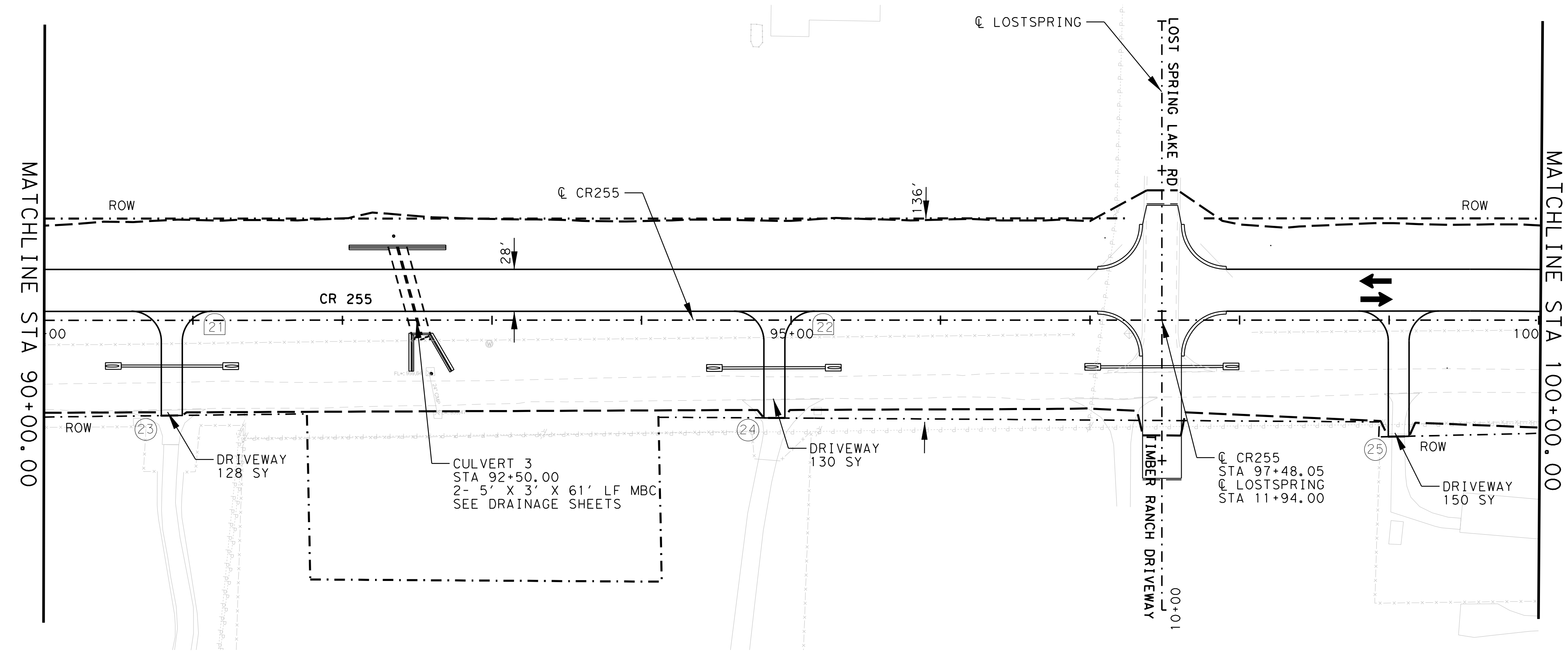

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- DRIVEWAY
- MAILBOX ASSEMBLY NUMBER

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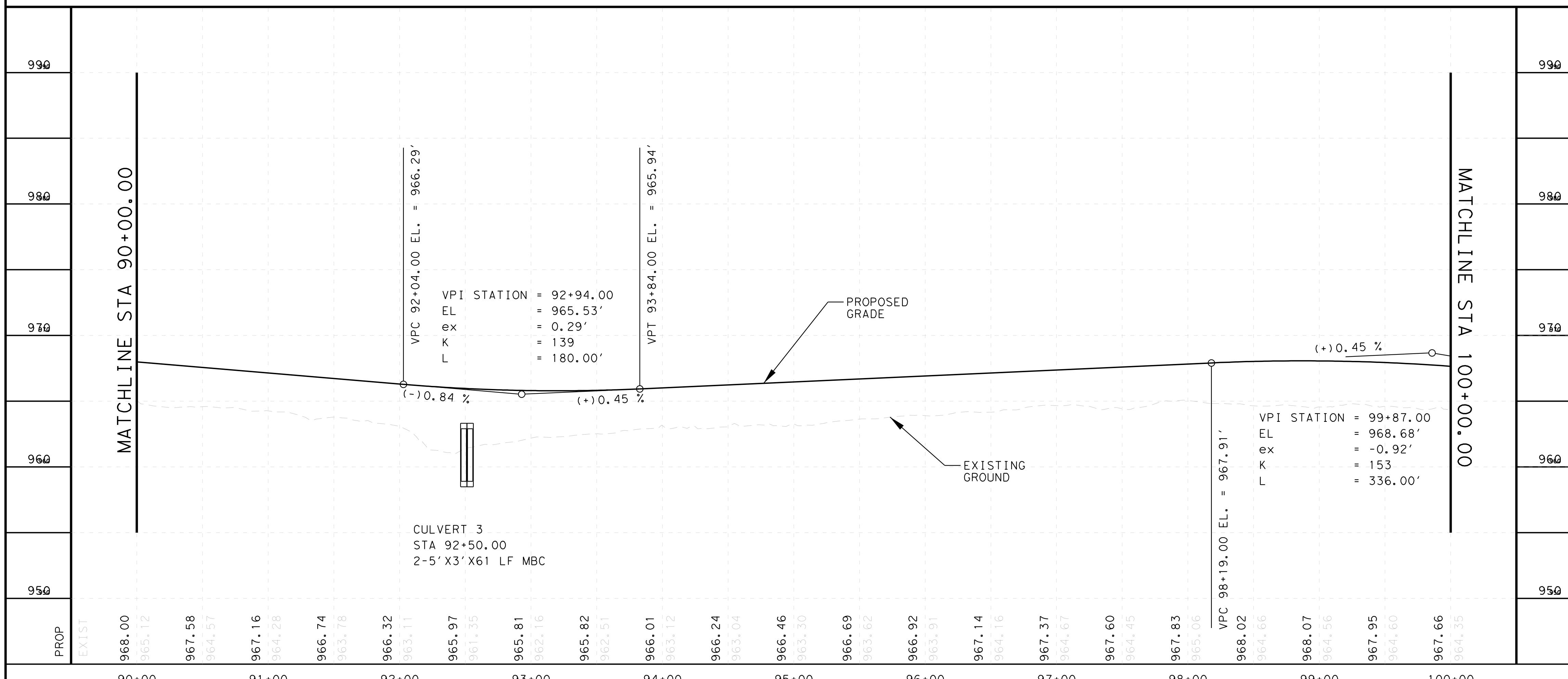

STATE OF TEXAS
GERALD A. LANKES
107484
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7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 90+00 TO STA 100+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 9 OF 16

DESIGNED:	FED. RD. DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:		COUNTY	JOB No.	SHEET No.
CHECKED:		WILLIAMSON		110

USER: glankes
DATE: 7/11/2024 8:18
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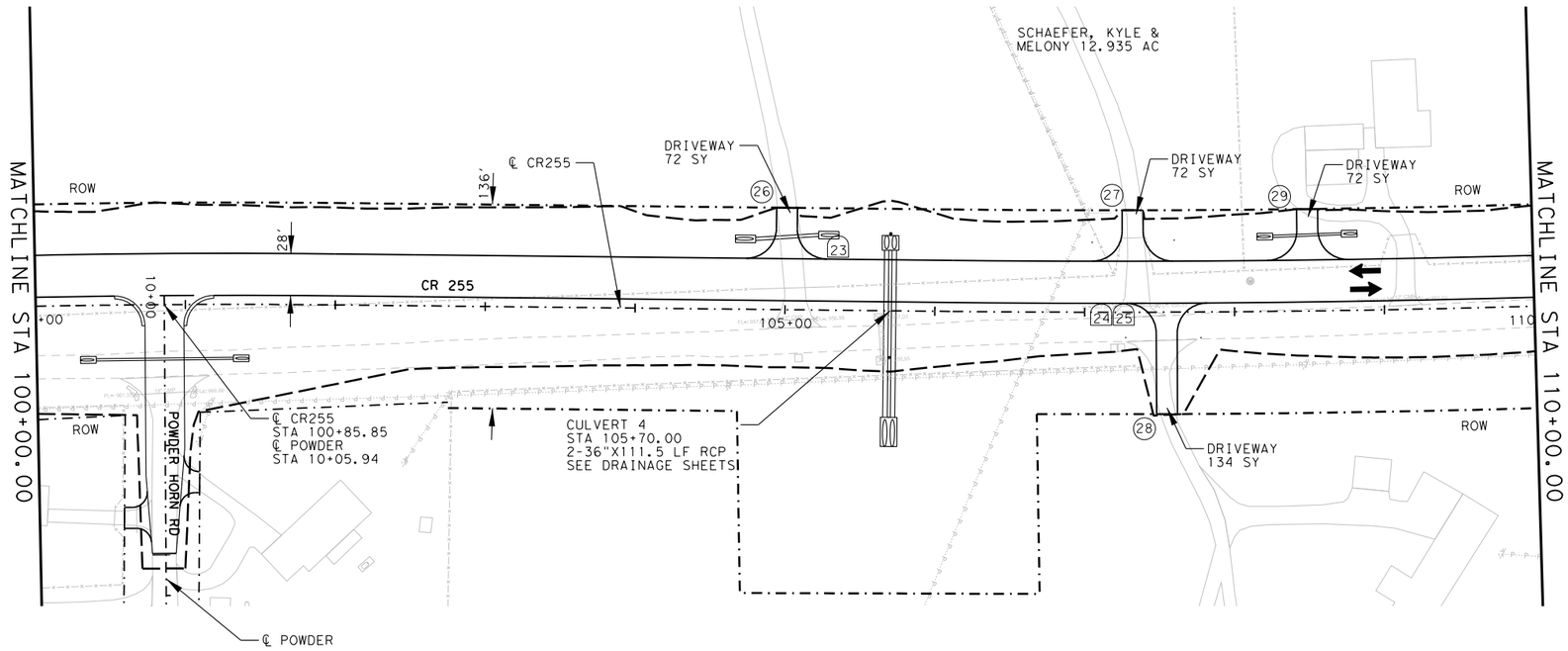

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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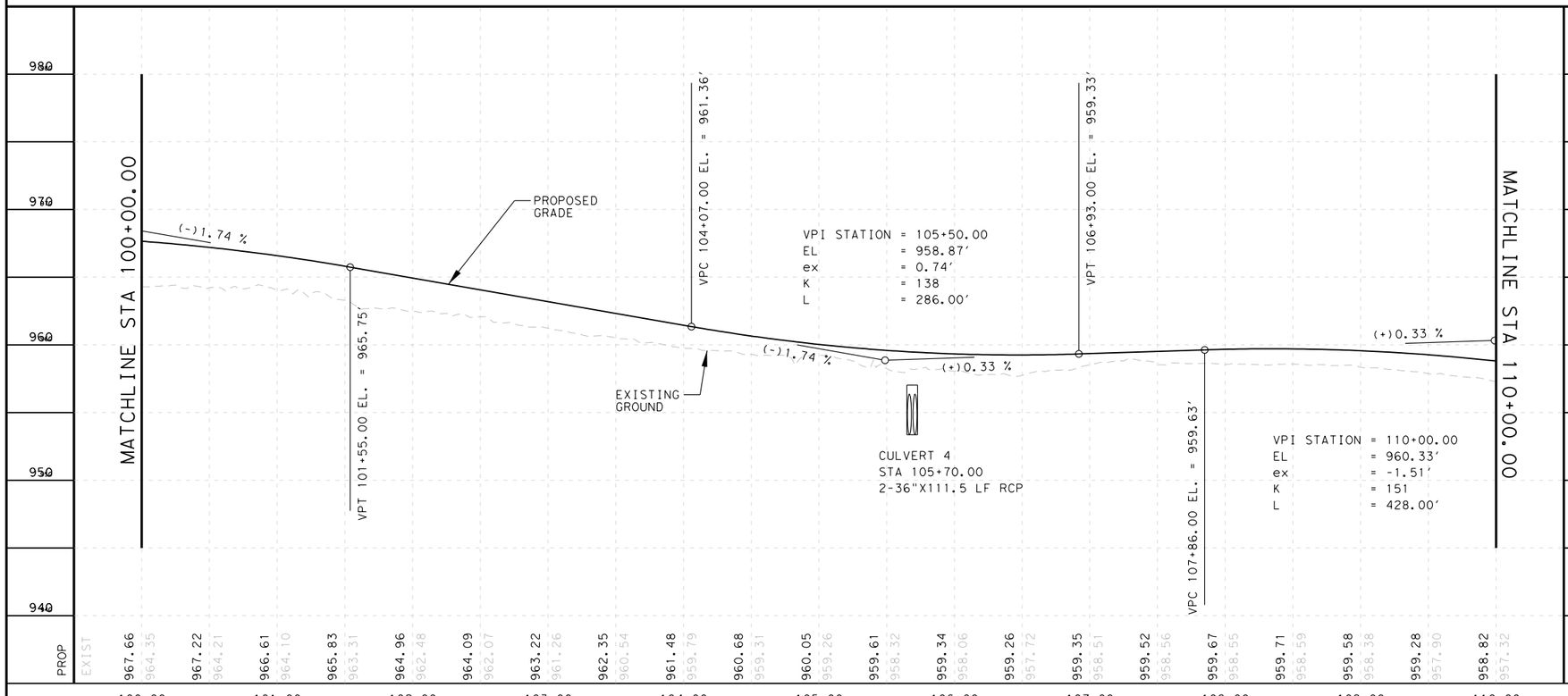

STATE OF TEXAS
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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 100+00 TO STA 110+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			111

USER: glankes
DATE: 7/11/2024 8:18
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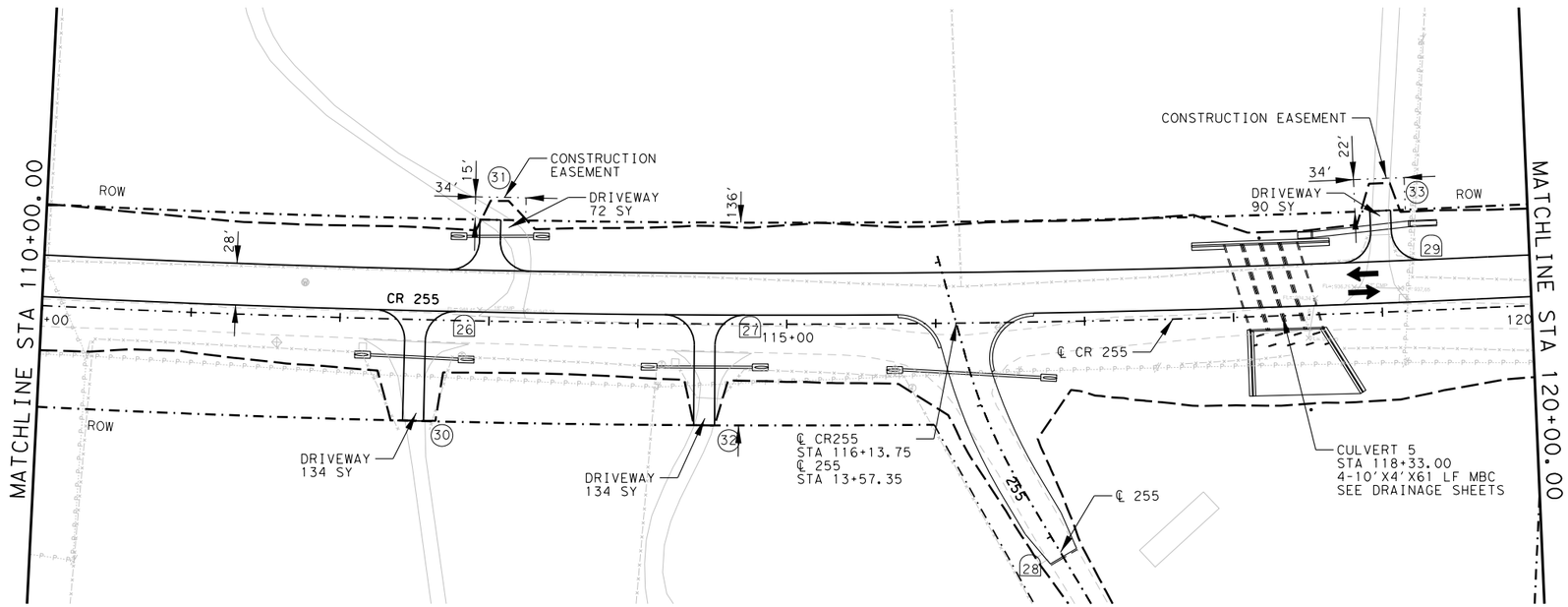
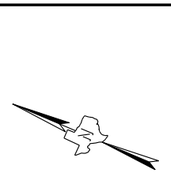




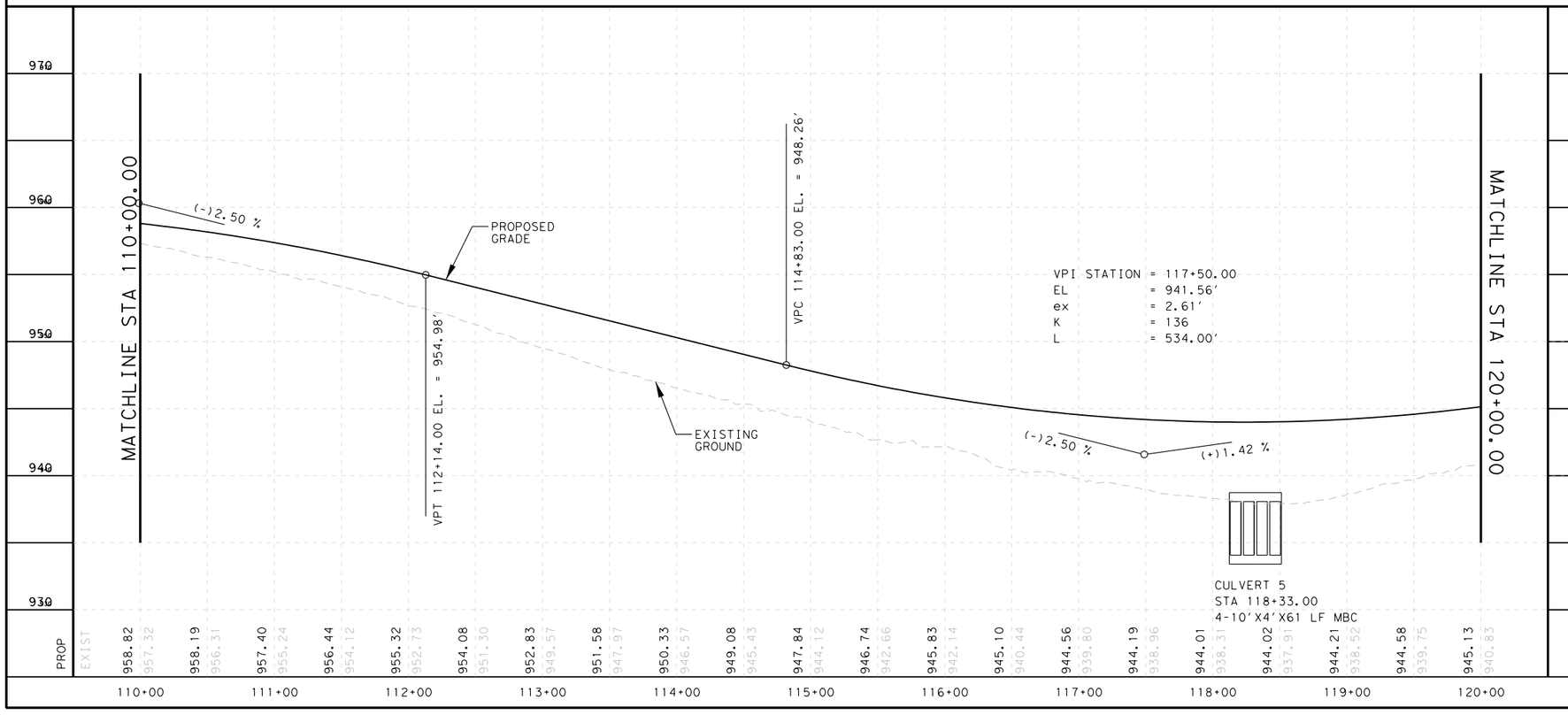
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

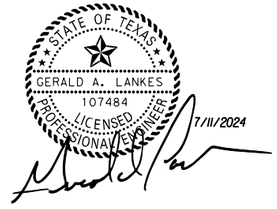
LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
2. THERE ARE EXISTING UNDERGROUND UTILITIES ALONG AND ACROSS THE ROW AT VARYING DEPTHS WITHIN THE PROJECT LIMITS. CONTRACTOR MUST VERIFY THEIR LOCATION AND PERFORM CONSTRUCTION OPERATIONS IN A MANNER TO AVOID THEM.





WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 110+00 TO STA 120+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 11 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			112

USER: glankes
DATE: 7/11/2024 8:18
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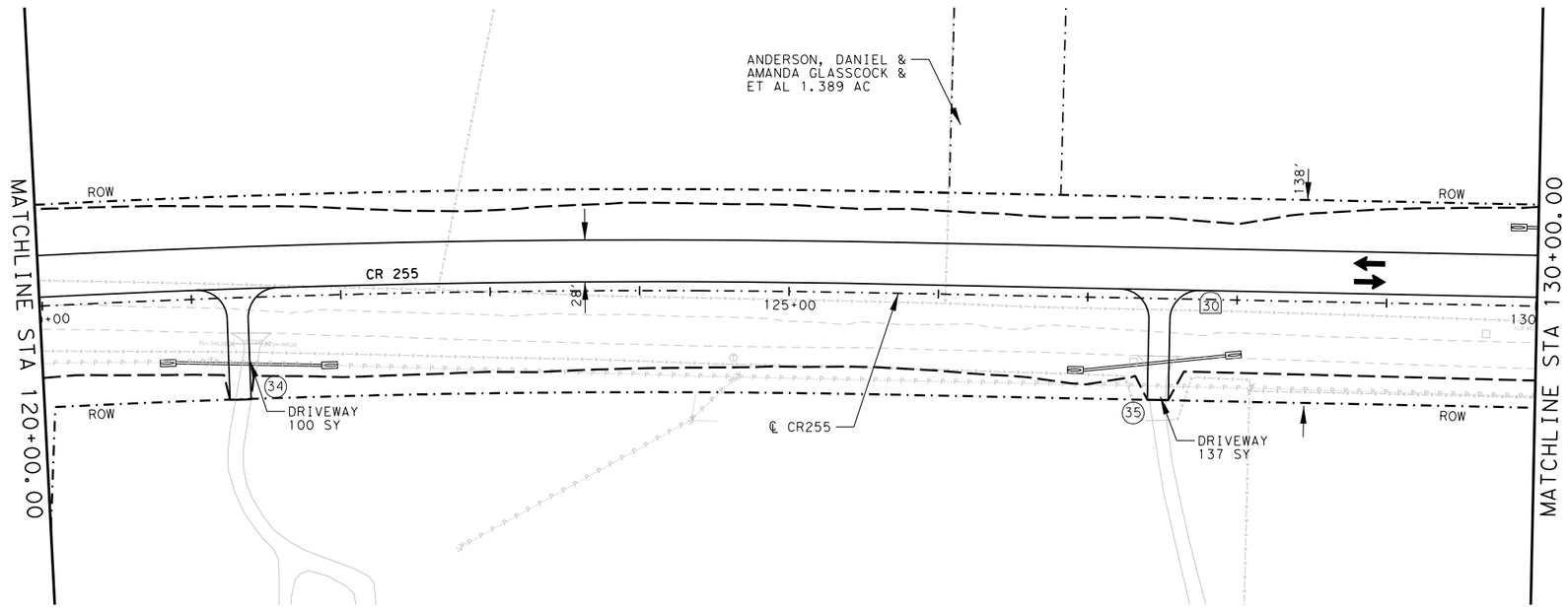

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
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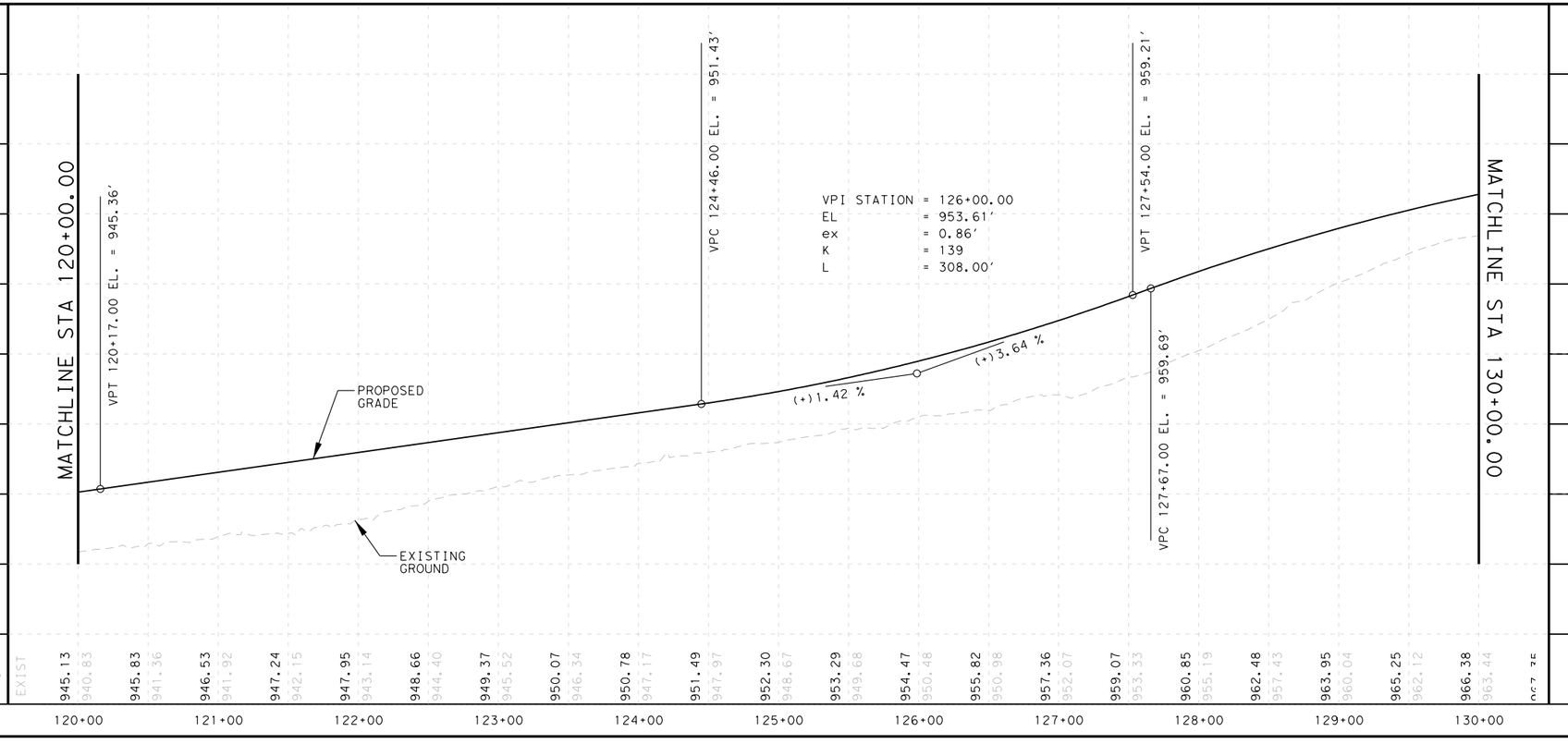

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 120+00 TO STA 130+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 12 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			113

USER: glankes
DATE: 7/11/2024 8:18
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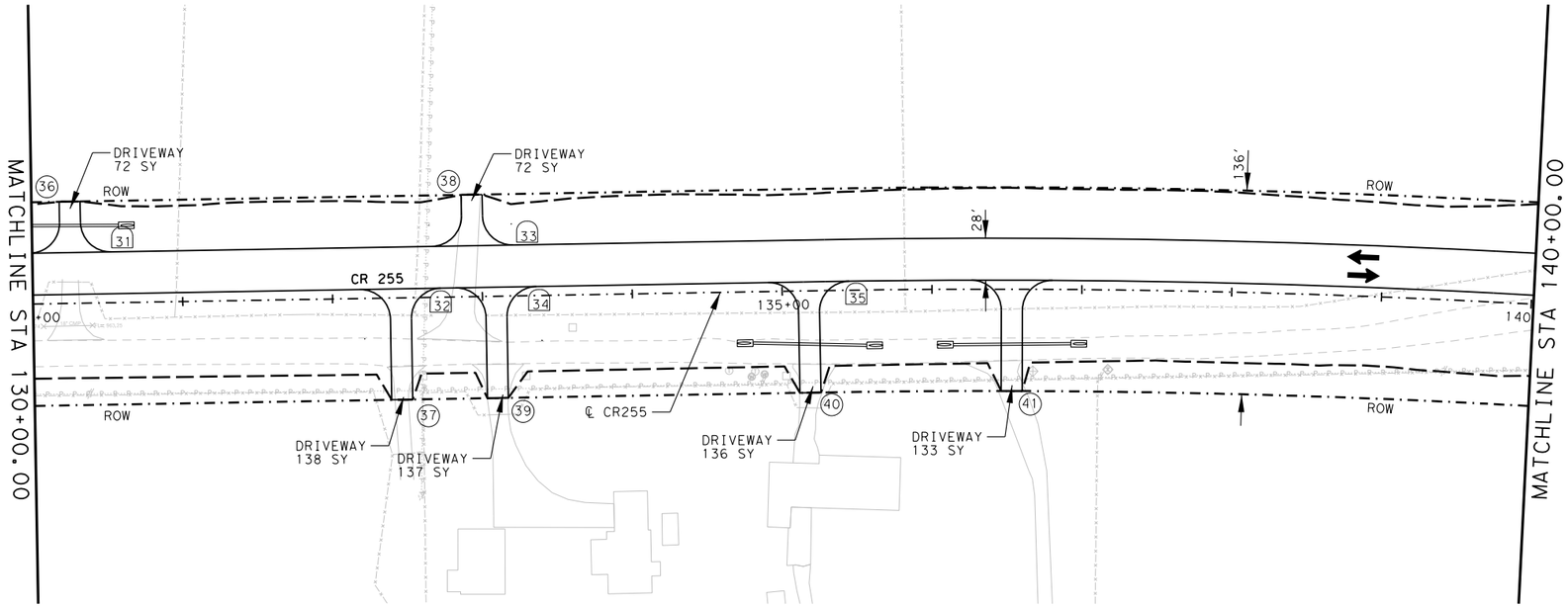

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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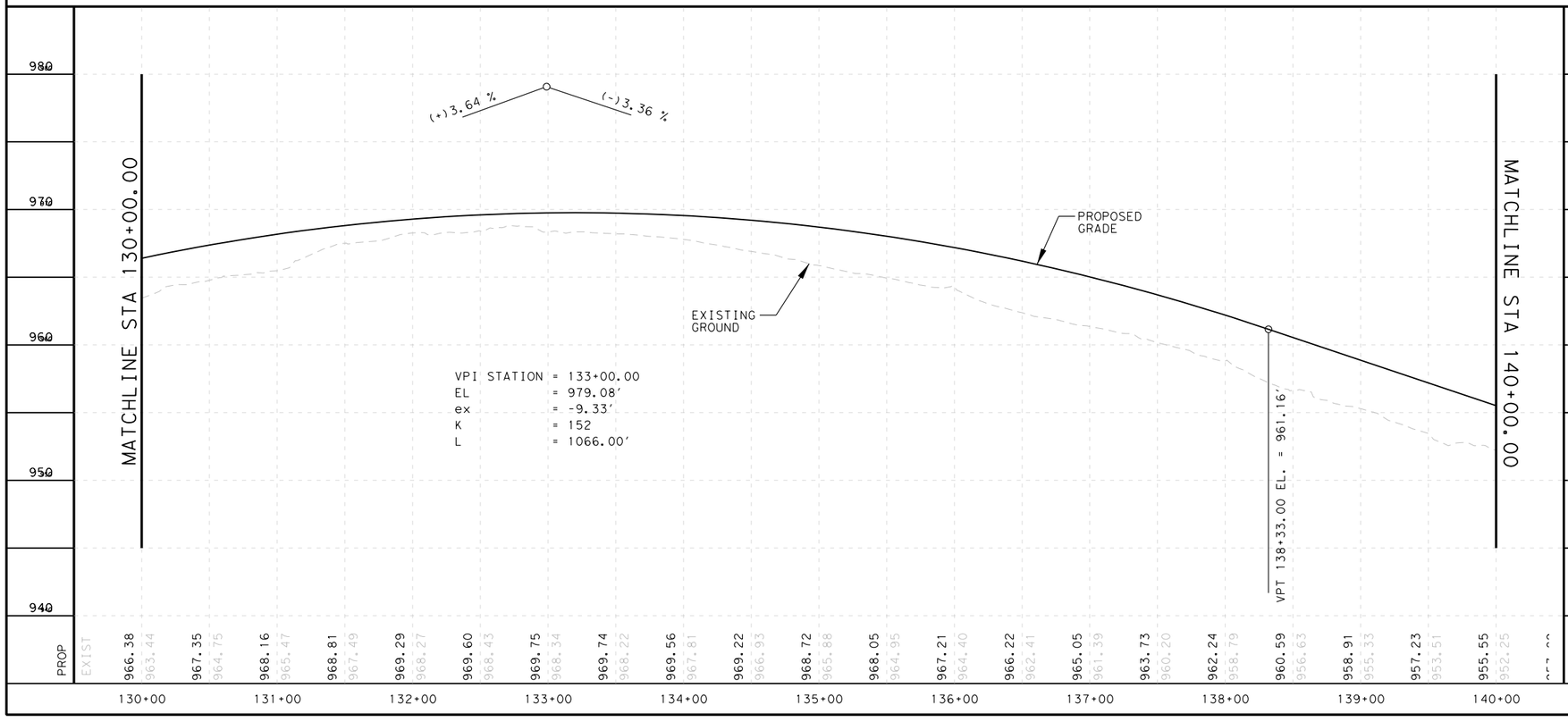

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 130+00 TO STA 140+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 13 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			114

USER: glankes
DATE: 7/11/2024 8:18
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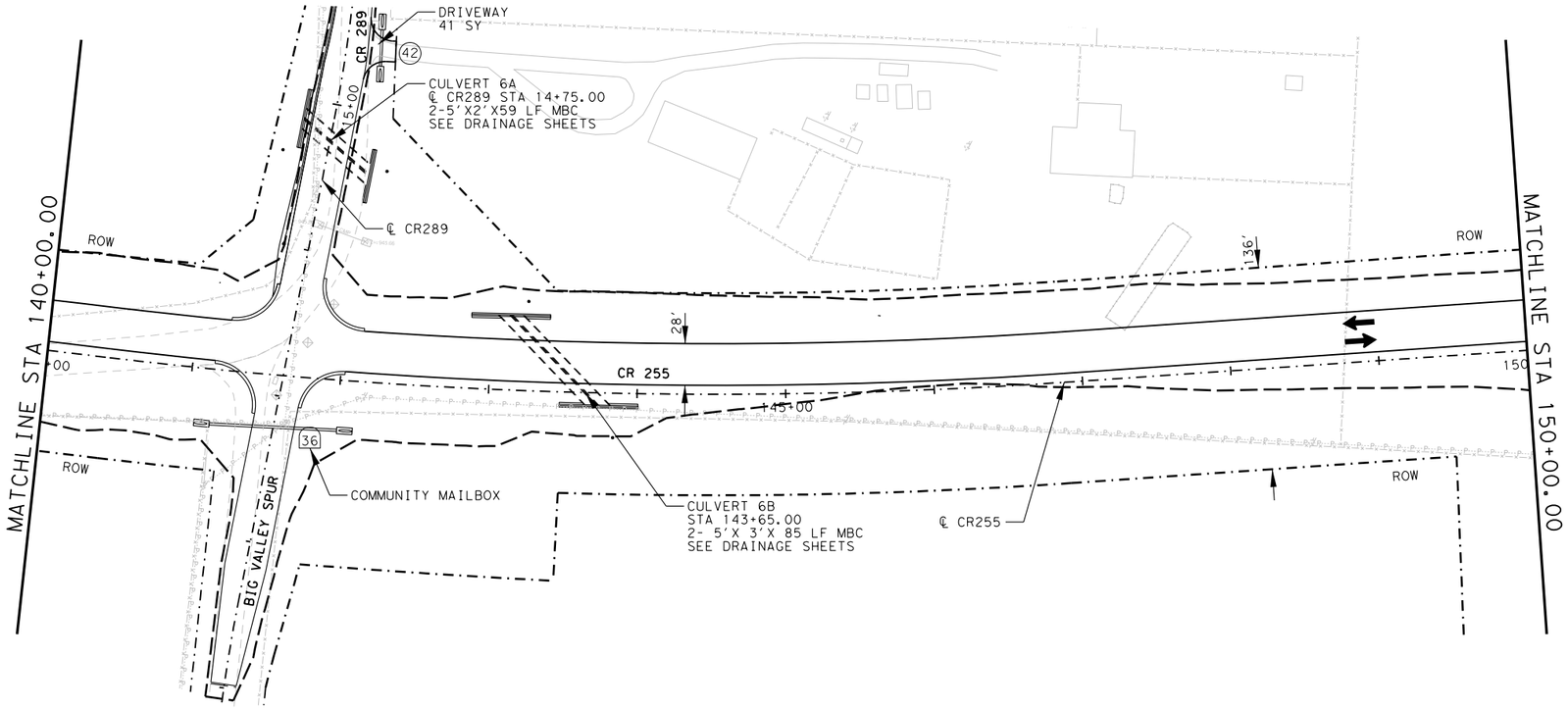

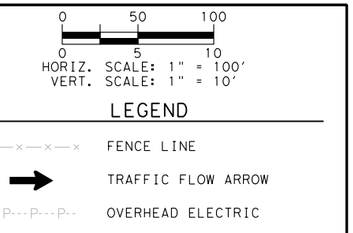

NOTES:

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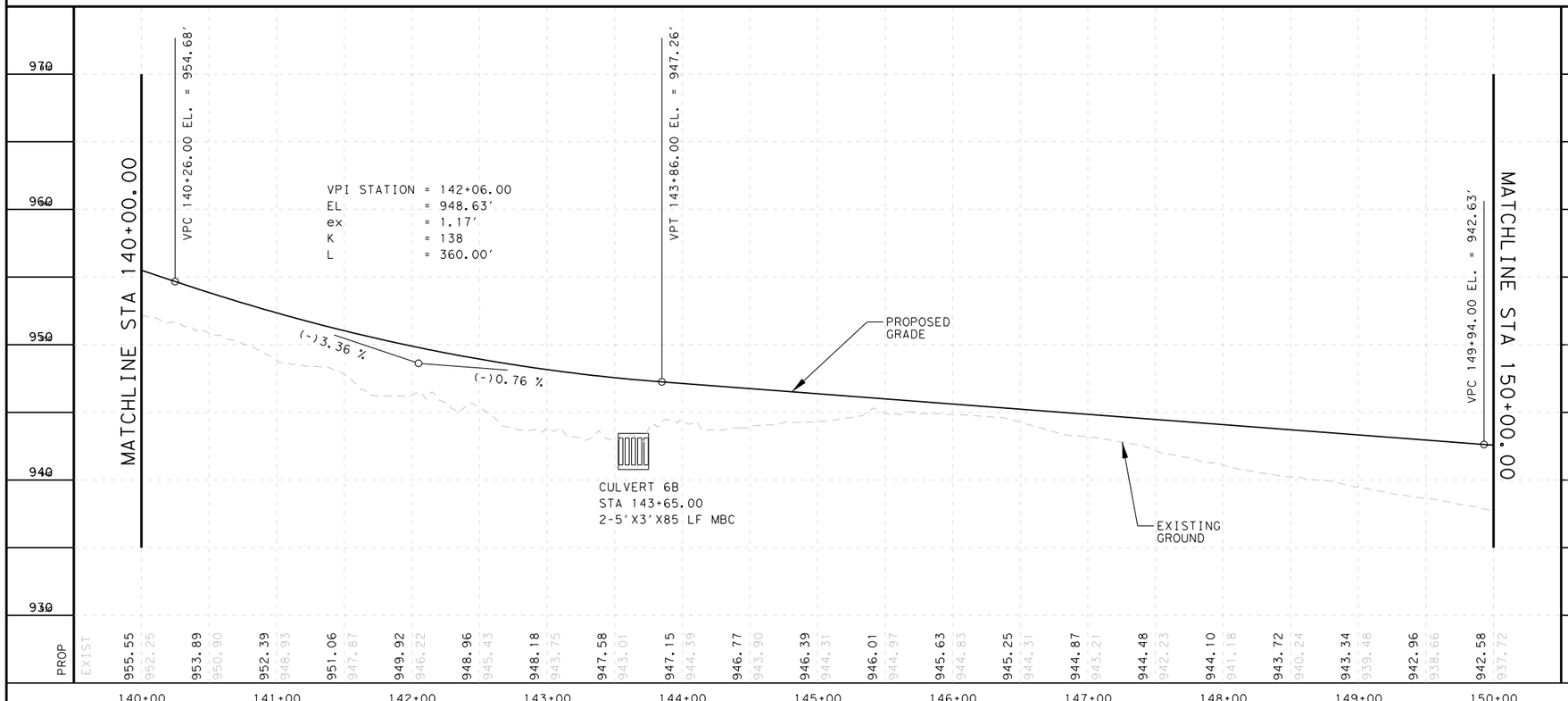

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 140+00 TO STA 150+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 14 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			115

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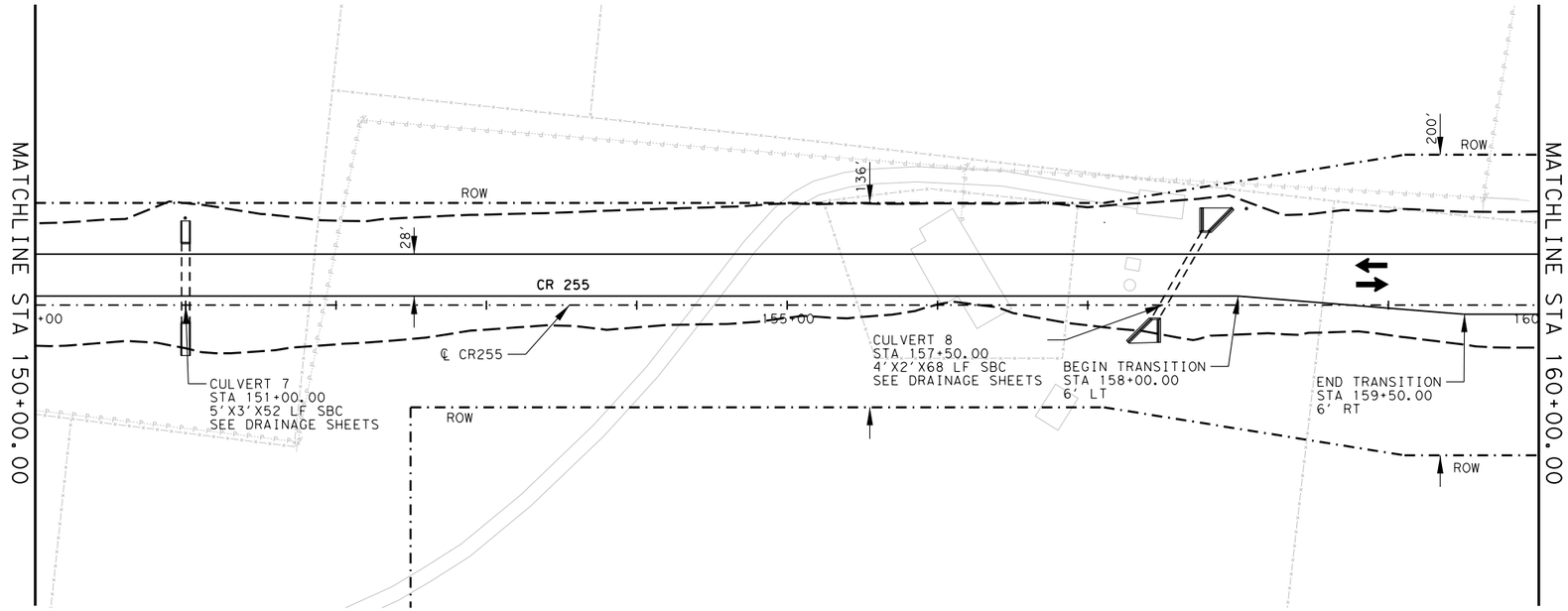

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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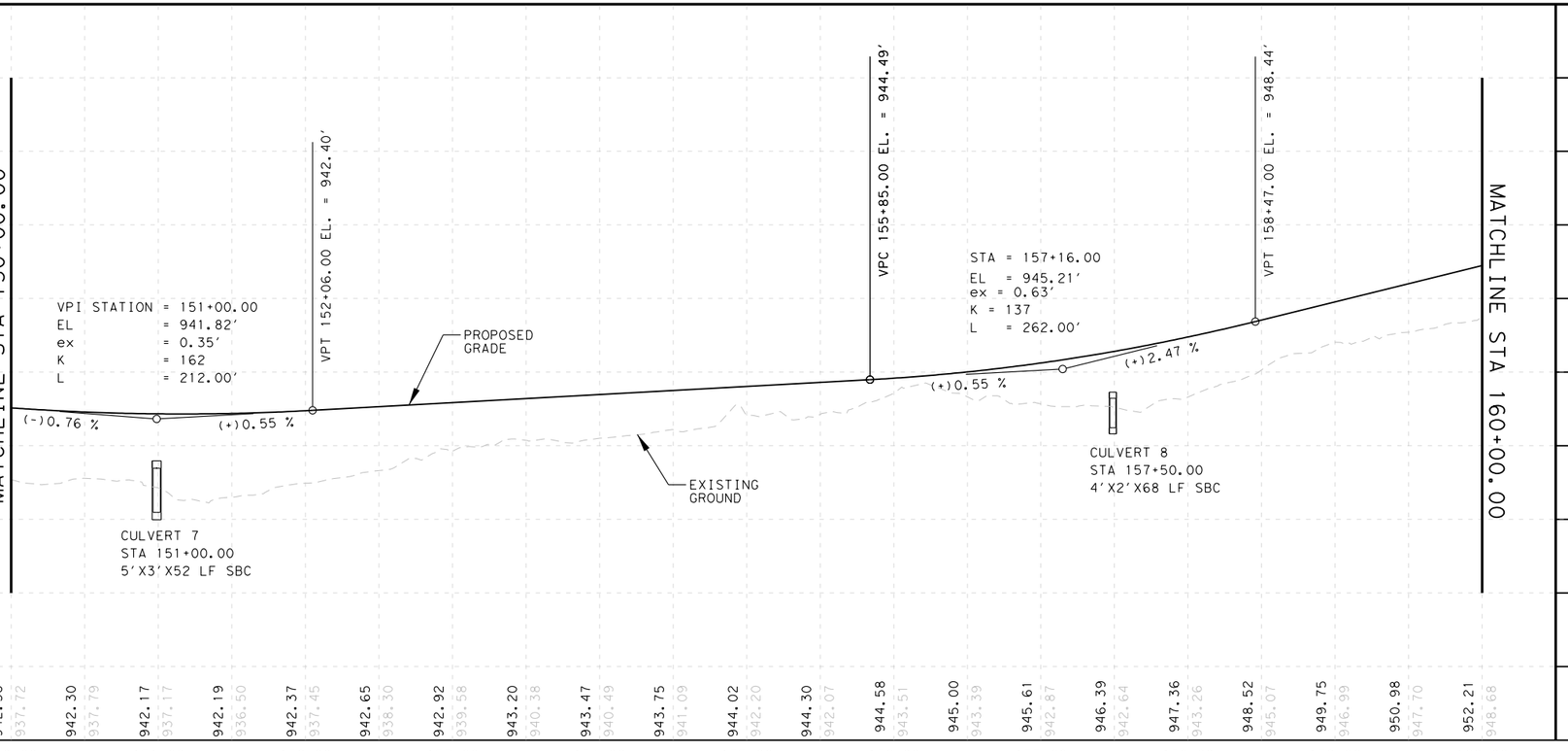

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 150+00 TO STA 160+00

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 15 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			116

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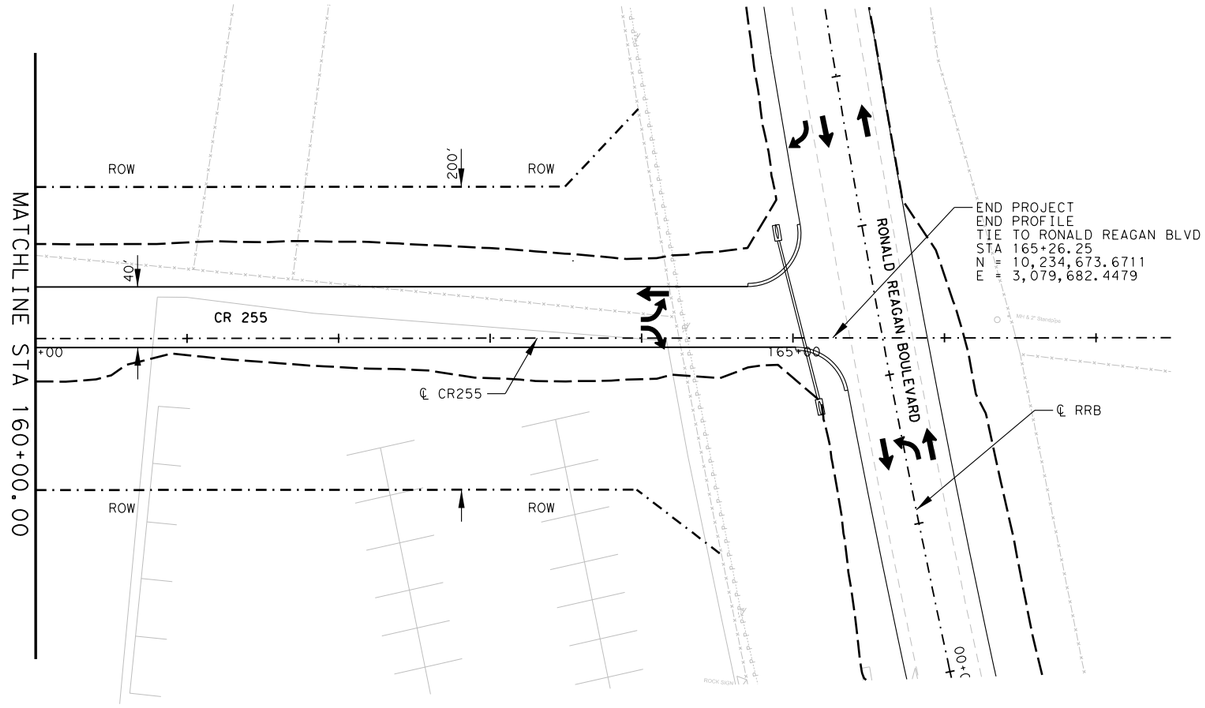

0 50 100
0 5 10
HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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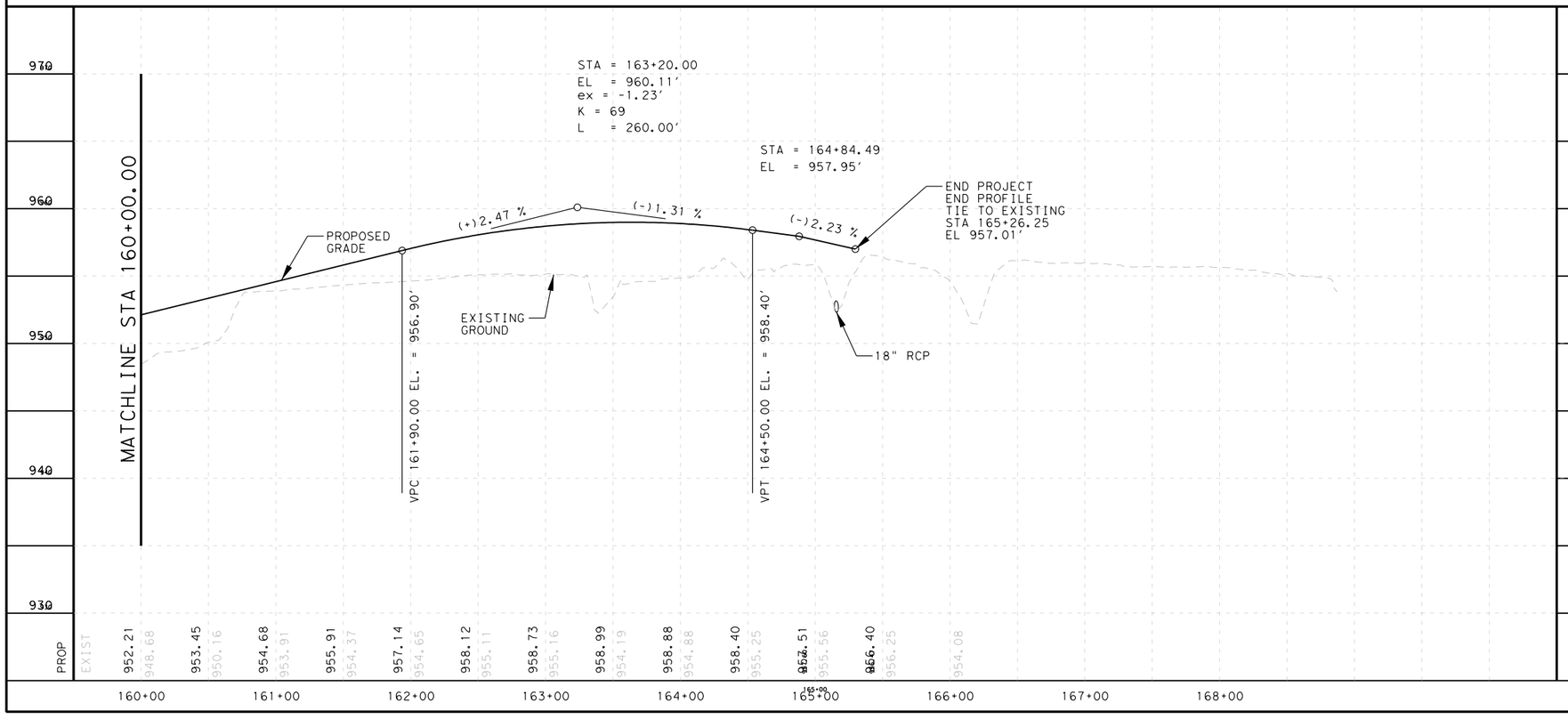

STATE OF TEXAS
GERALD A. LANKES
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LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
STA 160+00 TO END

HORIZ. SCALE: 1" = 100'
VERT. SCALE: 1" = 10'

SHEET 16 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			117

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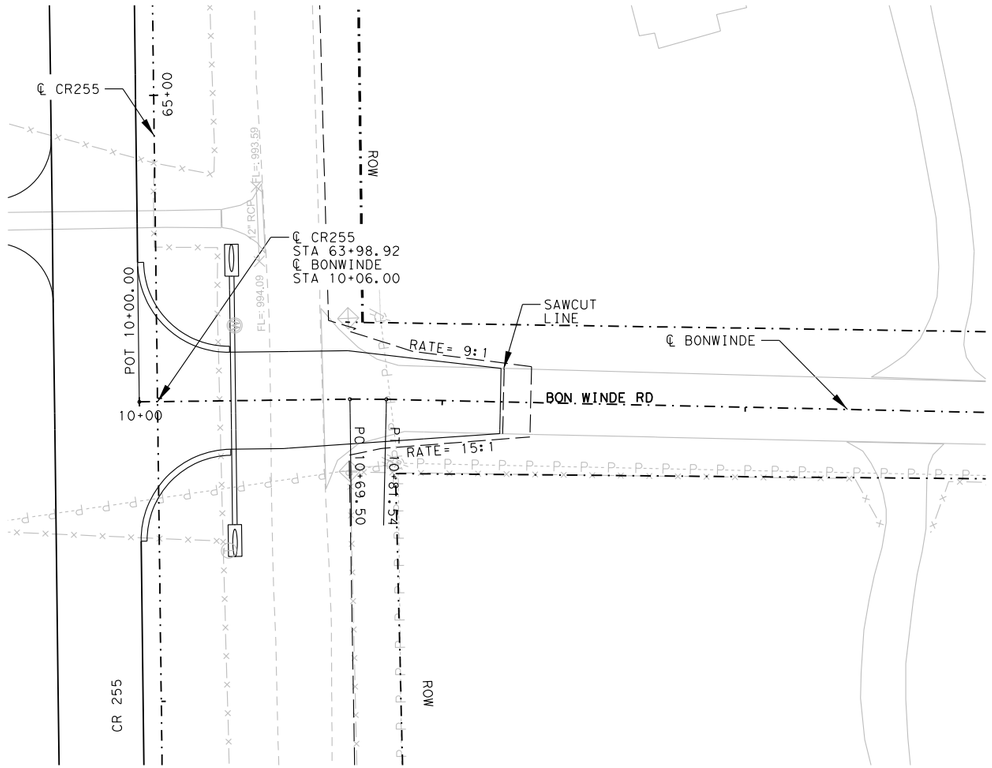

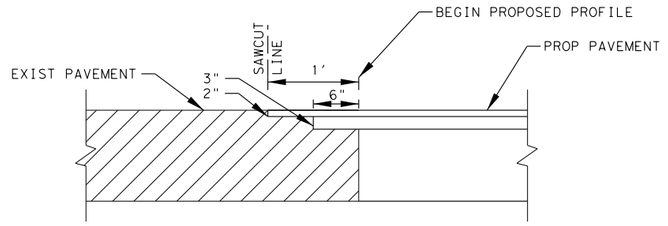

SAWCUT LINE DETAIL

0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

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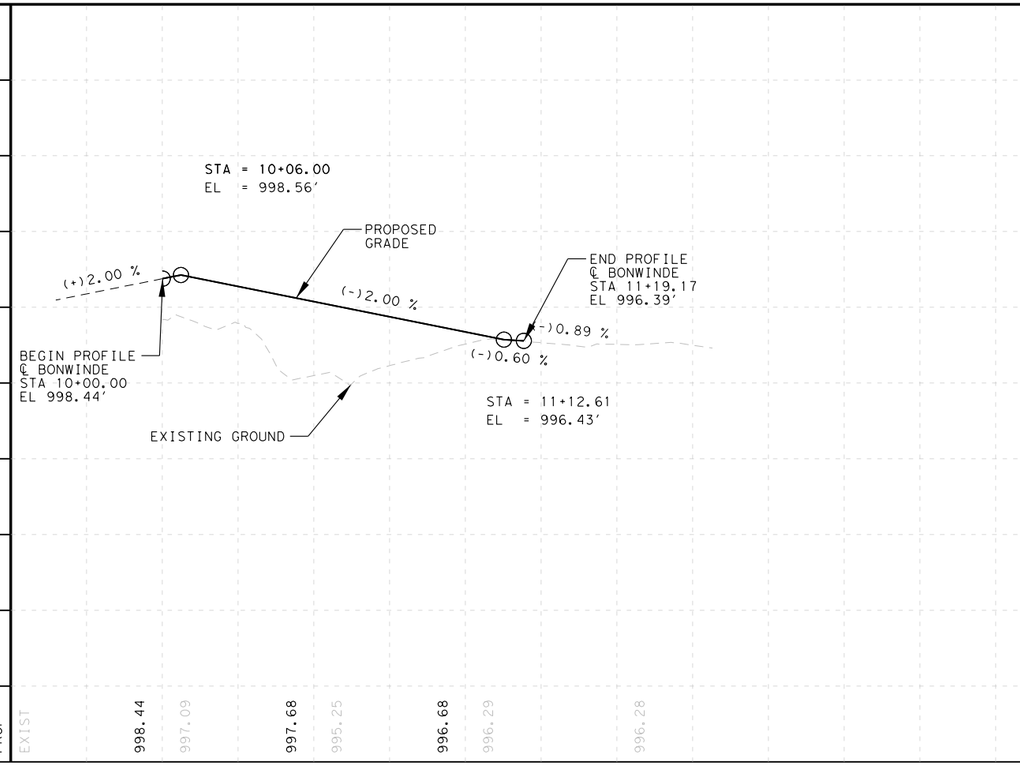

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
BON WINDE RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			118

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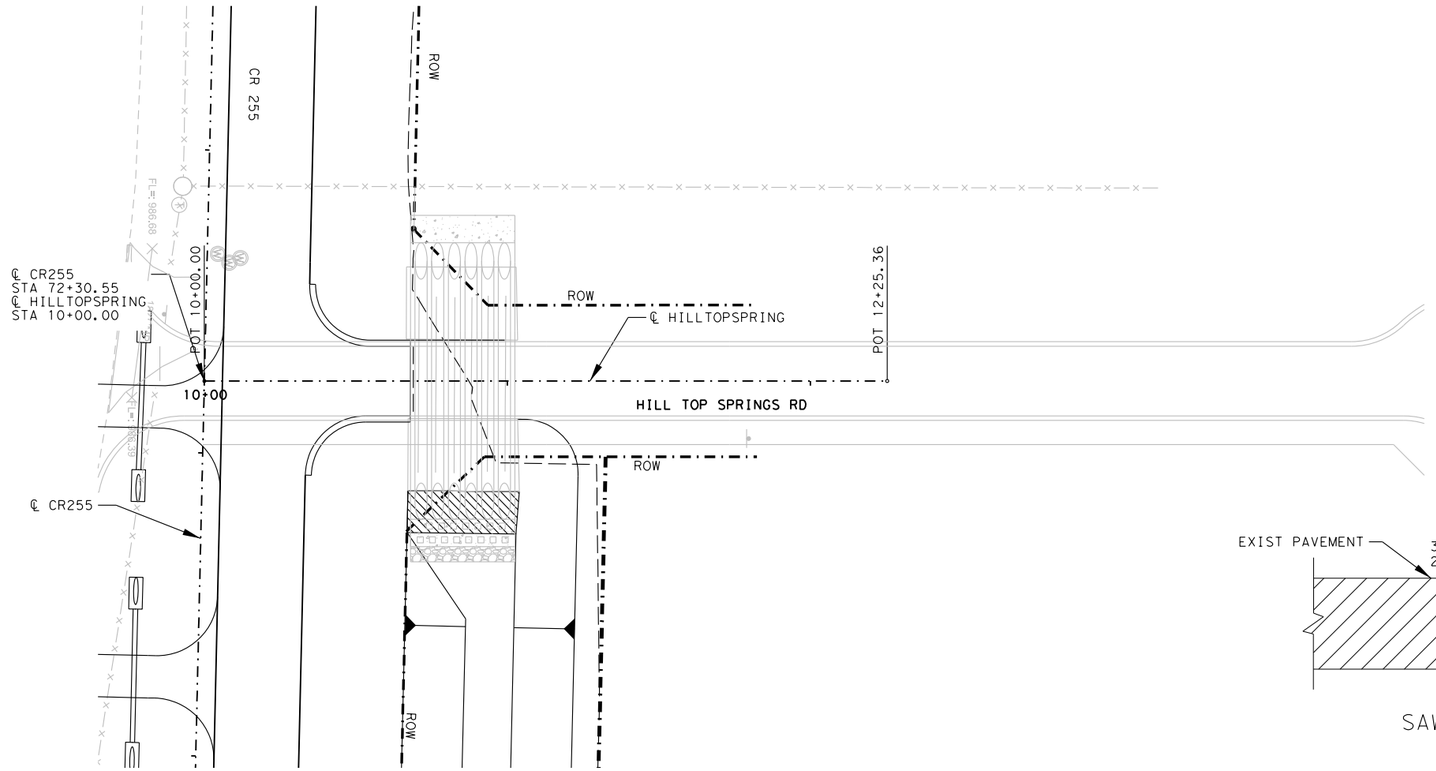

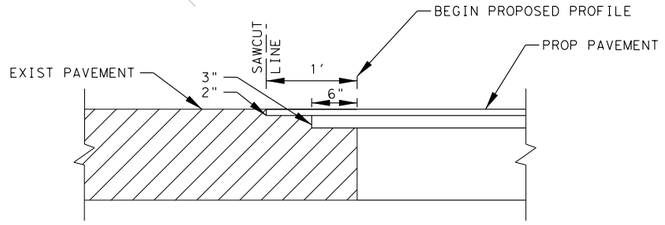

SAWCUT LINE DETAIL

0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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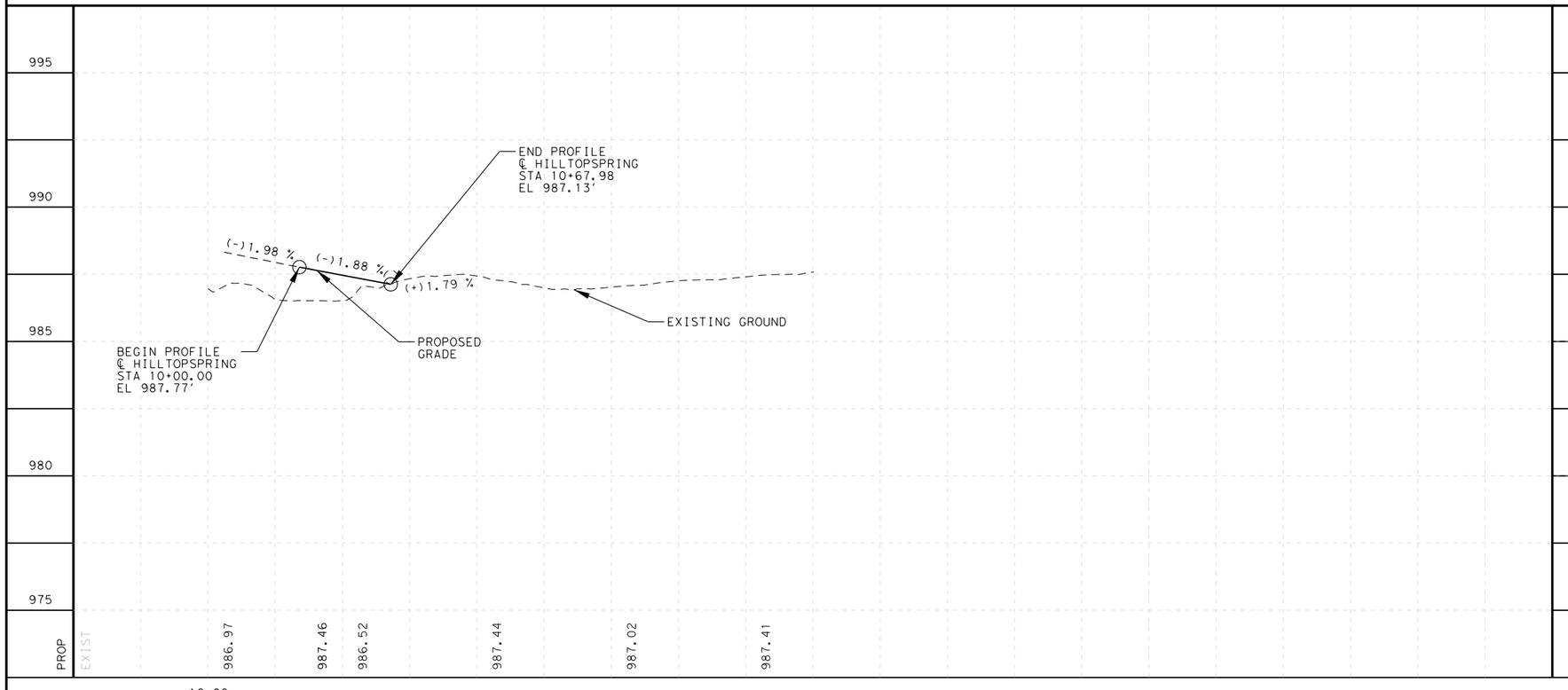

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
HILL TOP SPRINGS RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			119

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DATE: 7/11/2024 8:19
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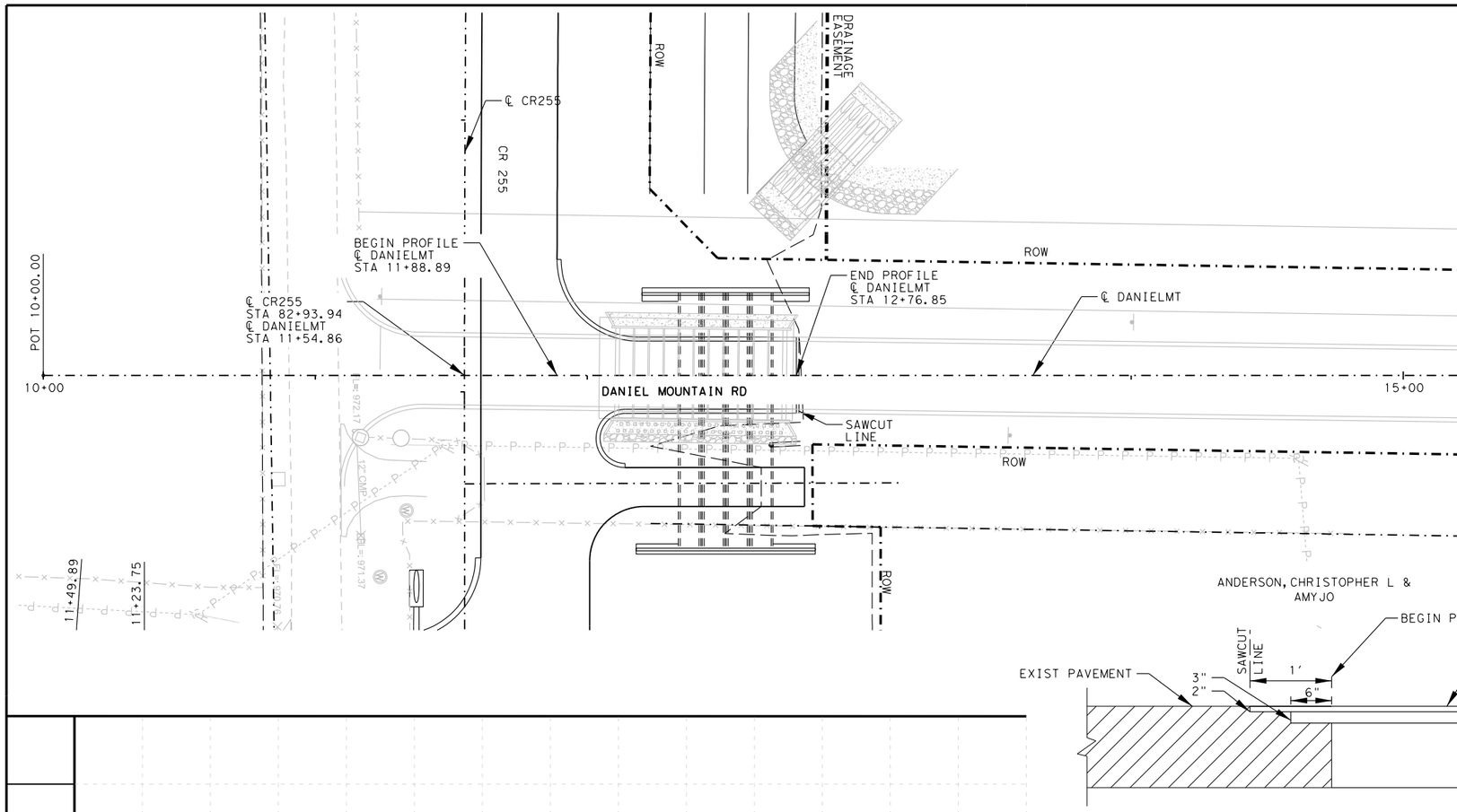
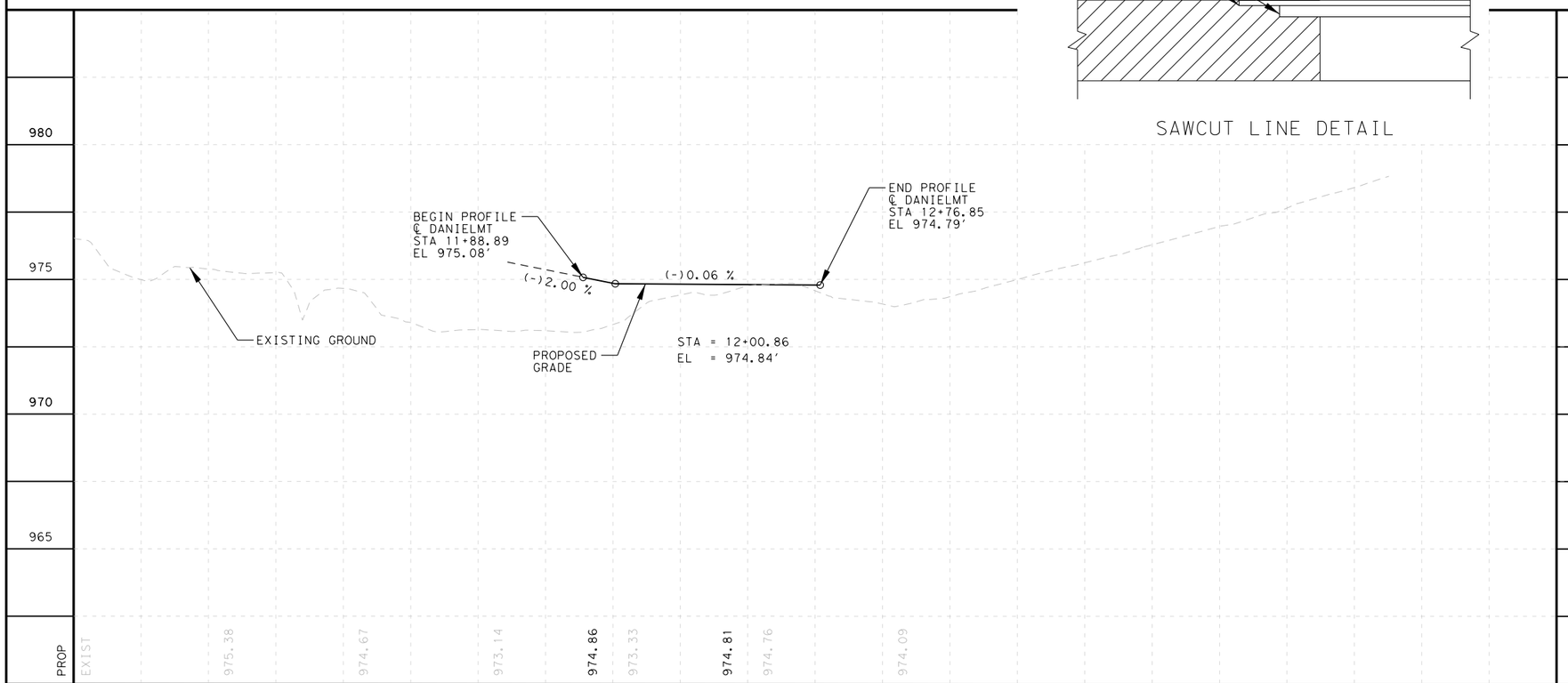


SAWCUT LINE DETAIL



0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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STATE OF TEXAS
GERALD A. LANKES
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LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
DANIEL MOUNTAIN RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			120

USER: glankes
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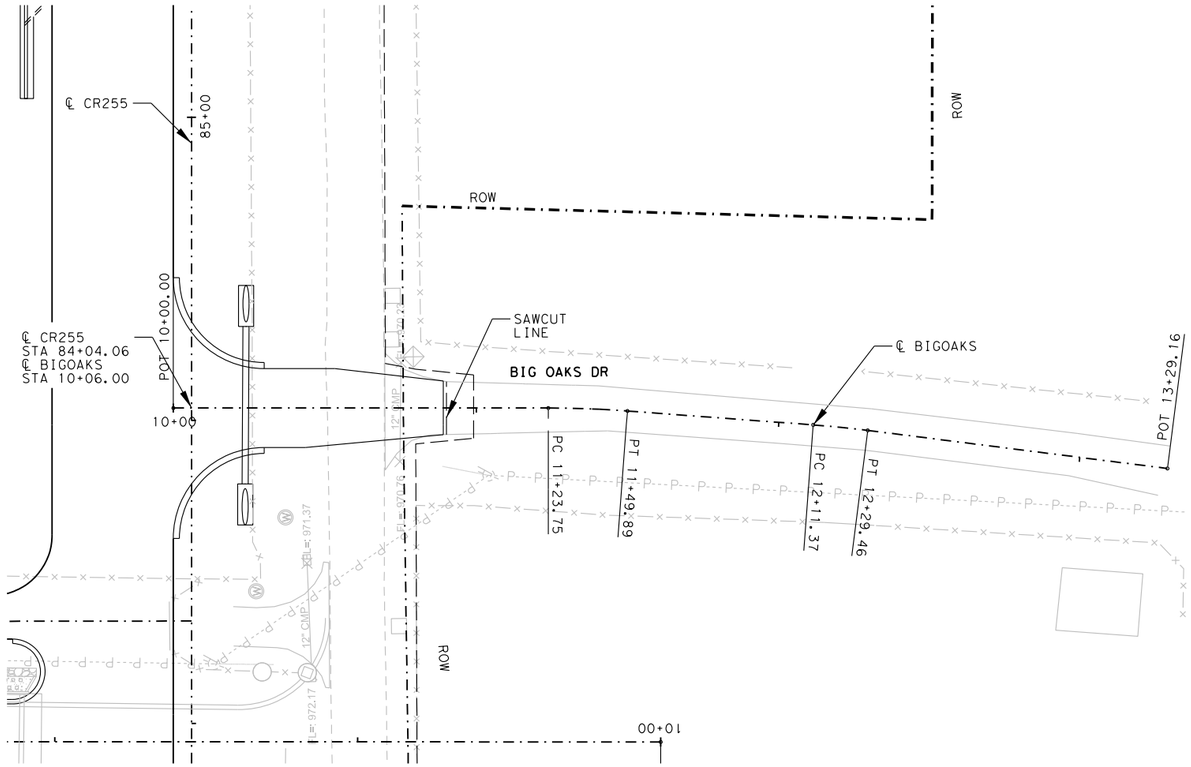

0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

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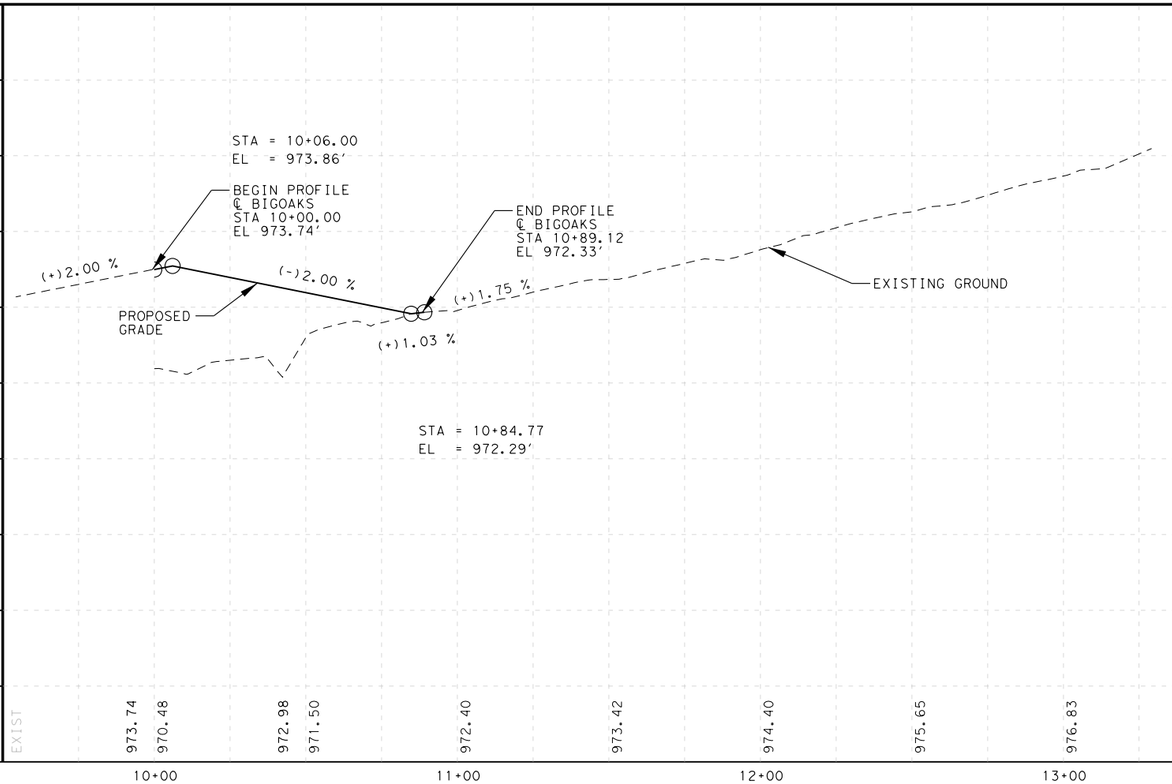

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
BIG OAKS DR

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			121

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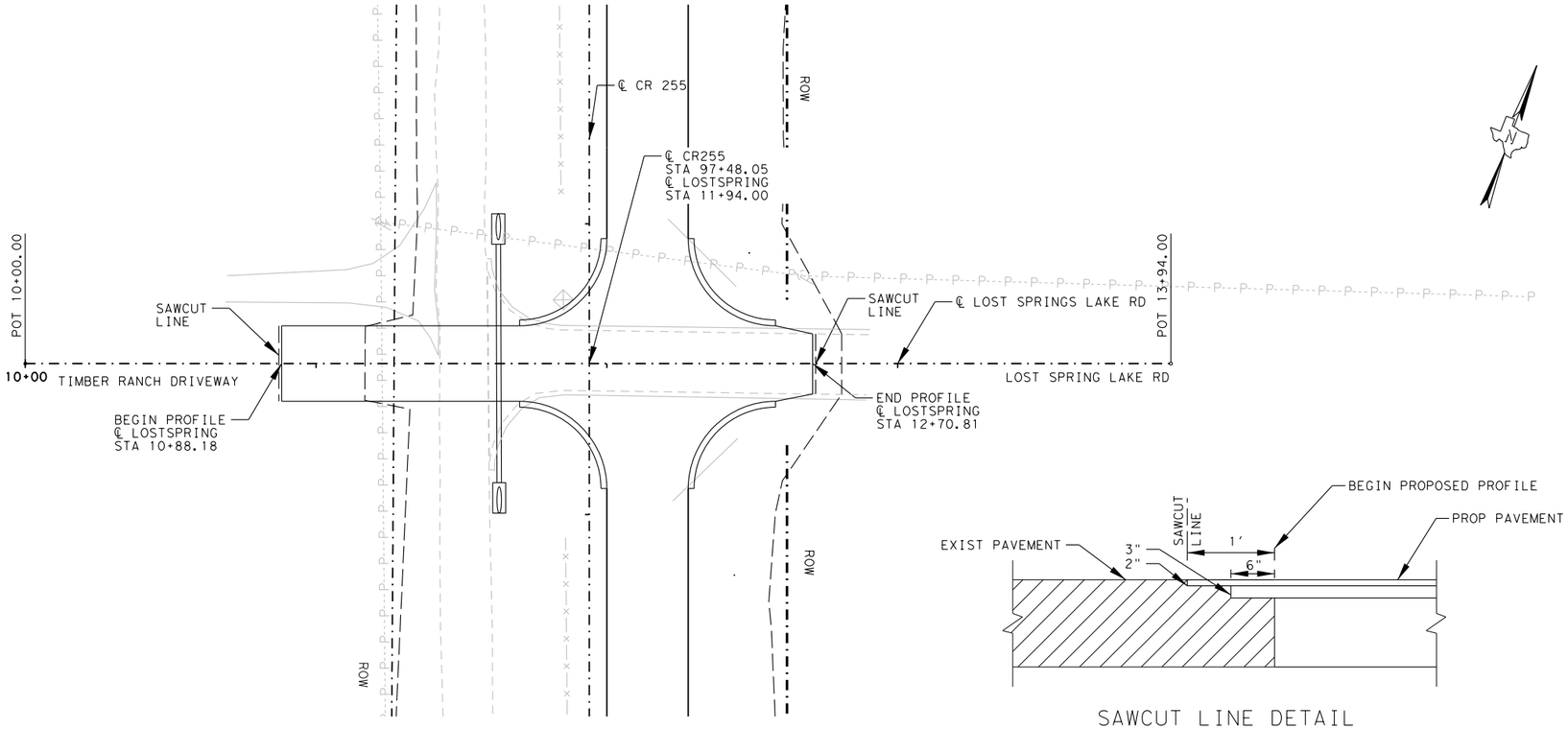


SAWCUT LINE DETAIL

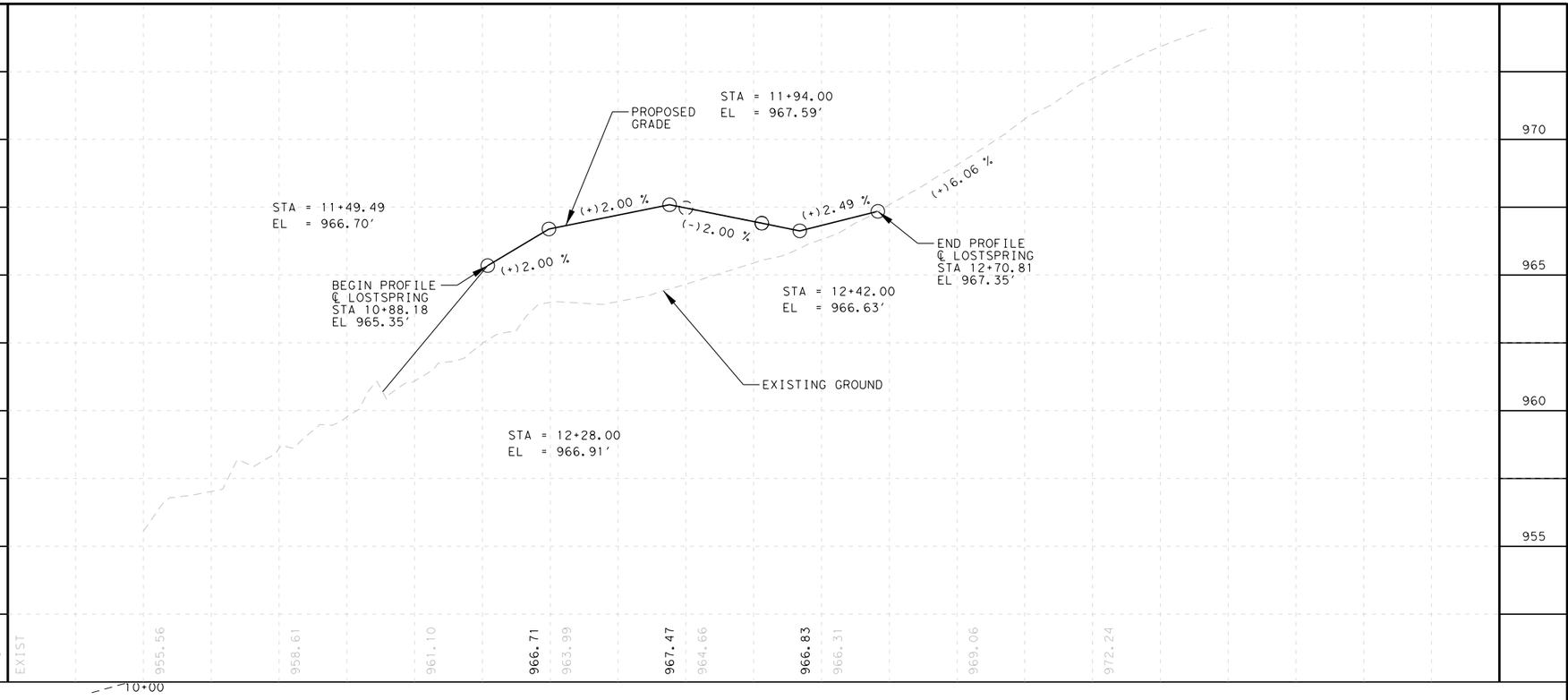
0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- (#) DRIVEWAY
- (#) MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
2. THERE ARE EXISTING UNDERGROUND UTILITIES ALONG AND ACROSS THE ROW AT VARYING DEPTHS WITHIN THE PROJECT LIMITS. CONTRACTOR MUST VERIFY THEIR LOCATION AND PERFORM CONSTRUCTION OPERATIONS IN A MANNER TO AVOID THEM.



STATE OF TEXAS
GERALD A. LANKES
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7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
LOST SPRINGS LAKE RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			122

USER: glankes
DATE: 7/11/2024 8:19
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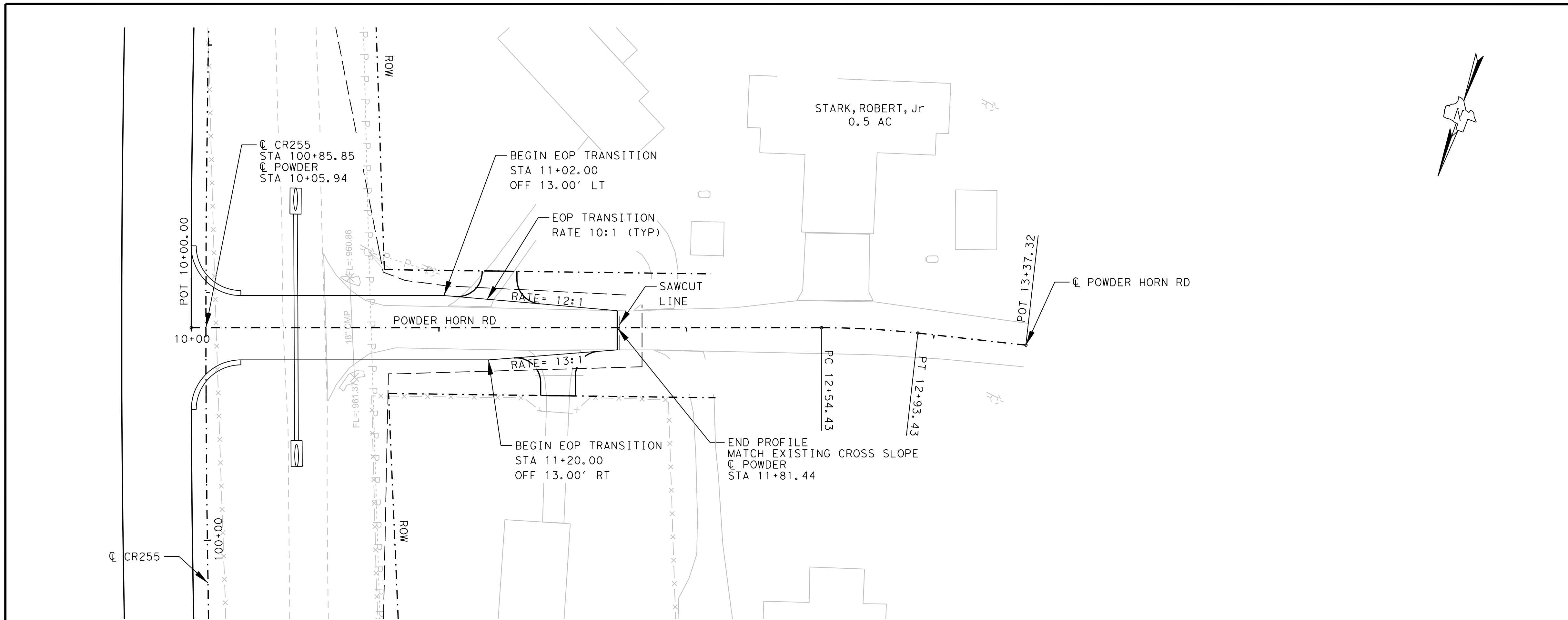


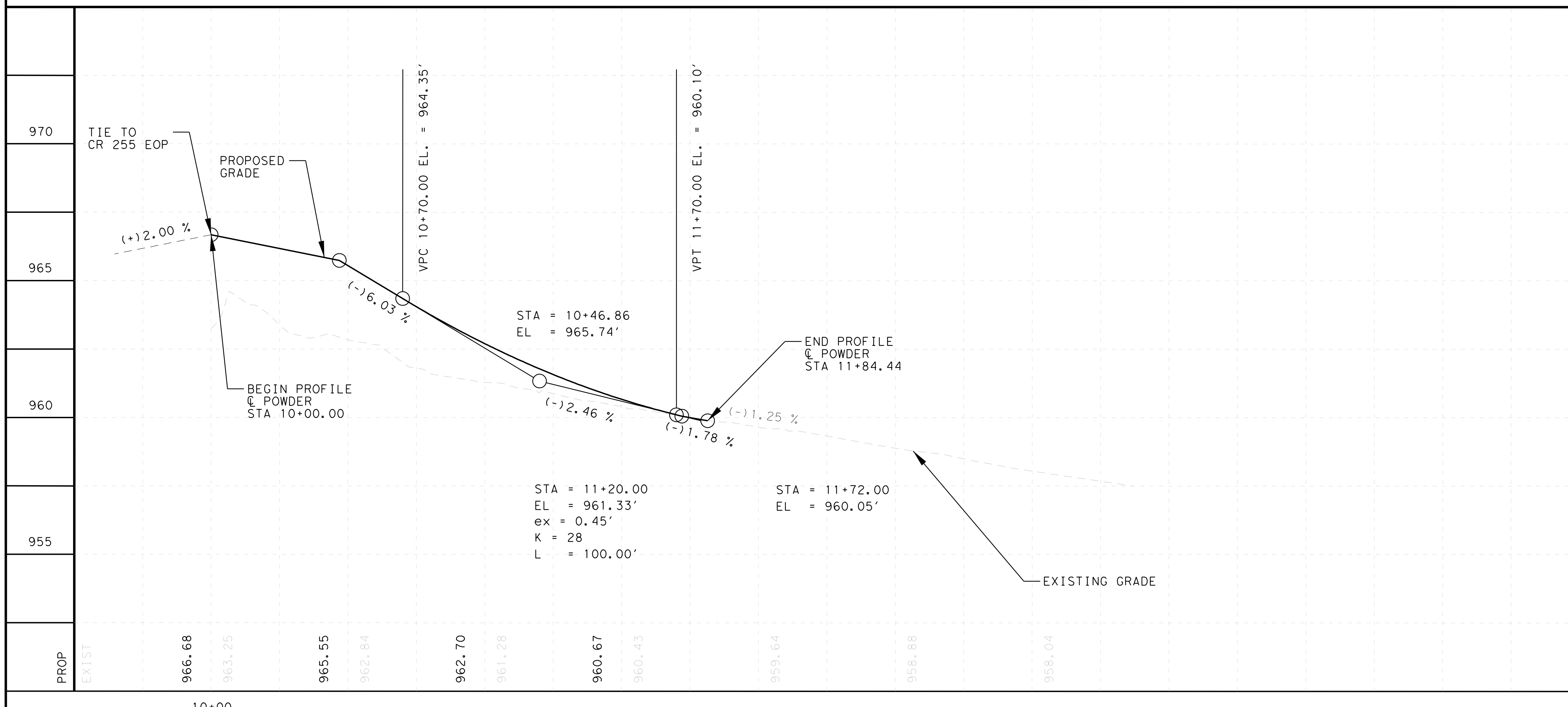
0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- DRIVEWAY
- MAILBOX ASSEMBLY NUMBER

NOTES:

1. SEE INTERSECTION DETAIL SHEETS FOR PAVEMENT EDGE ELEVATIONS, RADII AND SURFACE CONTOURS AT INTERSECTION.
2. THERE ARE EXISTING UNDERGROUND UTILITIES ALONG AND ACROSS THE ROW AT VARYING DEPTHS WITHIN THE PROJECT LIMITS. CONTRACTOR MUST VERIFY THEIR LOCATION AND PERFORM CONSTRUCTION OPERATIONS IN A MANNER TO AVOID THEM.



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7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
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PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
POWDER HORN RD

SHEET 1 OF 1

DESIGNED: ___	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED: ___		TEXAS		CR 255
DRAWN: ___		COUNTY	JOB No.	SHEET No.
CHECKED: ___		WILLIAMSON		123

USER: glankes
DATE: 7/11/2024 8:19
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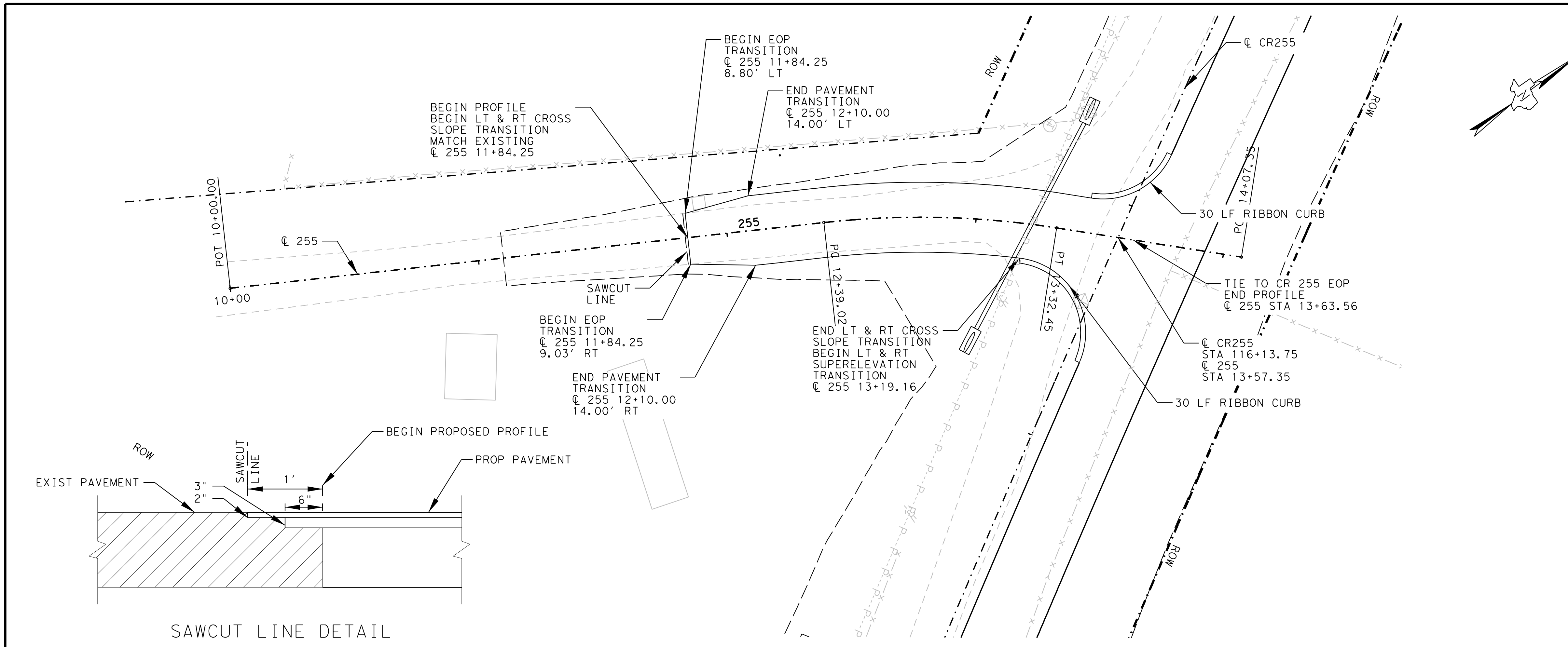

0 25 50
0 2.5 5
HORIZ. SCALE: 1" = 50'
VERT. SCALE: 1" = 5'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- BURIED COMM UTILITY
- PROPERTY LINE
- CONSTRUCTION LIMITS
- DRIVEWAY
- MAILBOX ASSEMBLY NUMBER

NOTES:

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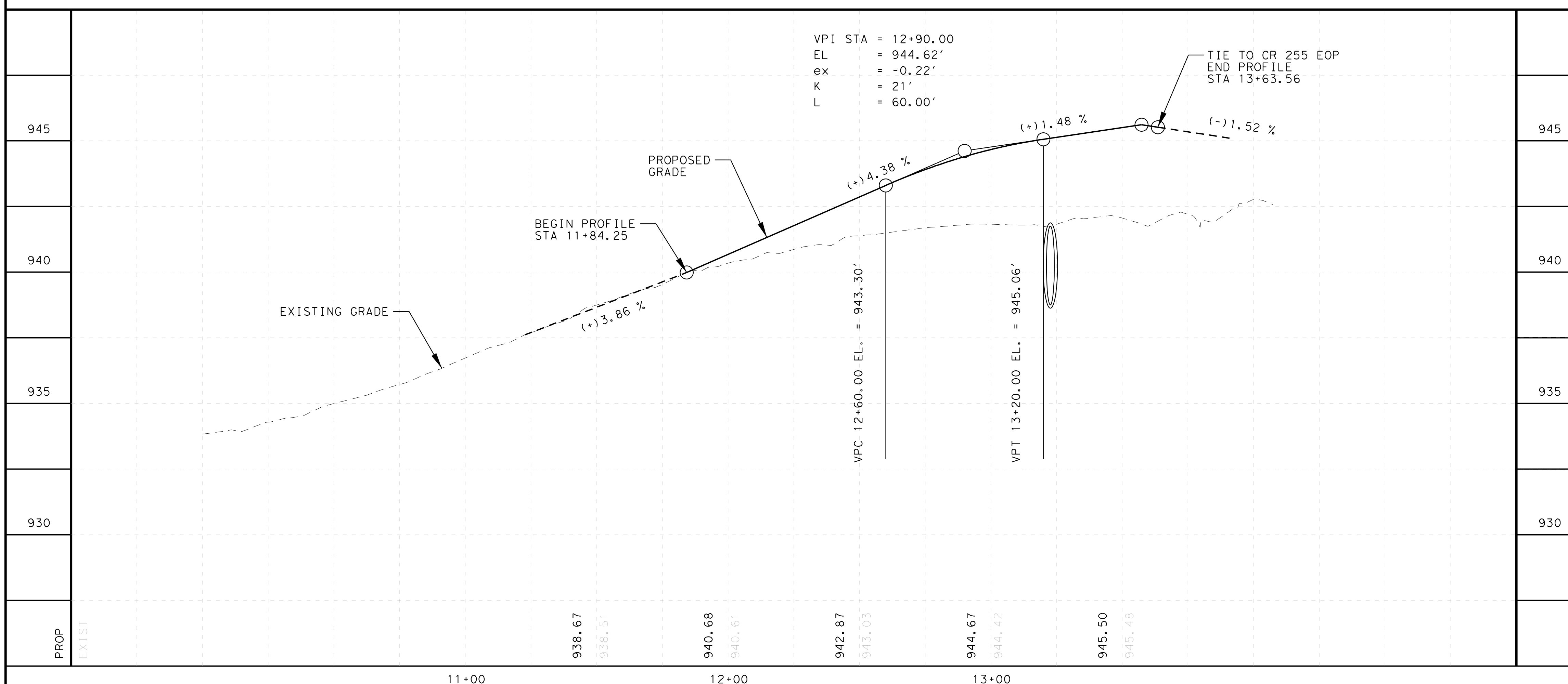

STATE OF TEXAS
GERALD A. LANKES
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WILCO TEXAS

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Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
255

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:		COUNTY	JOB No.	SHEET No.
CHECKED:		WILLIAMSON		124

USER: glankes
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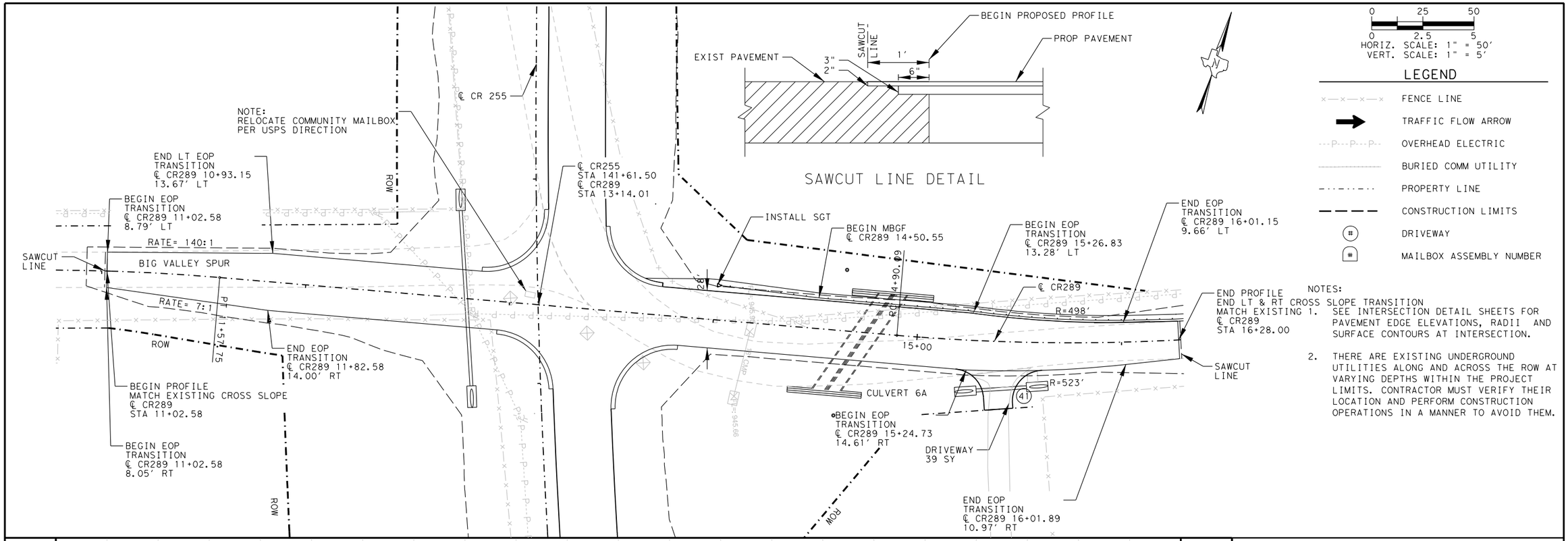

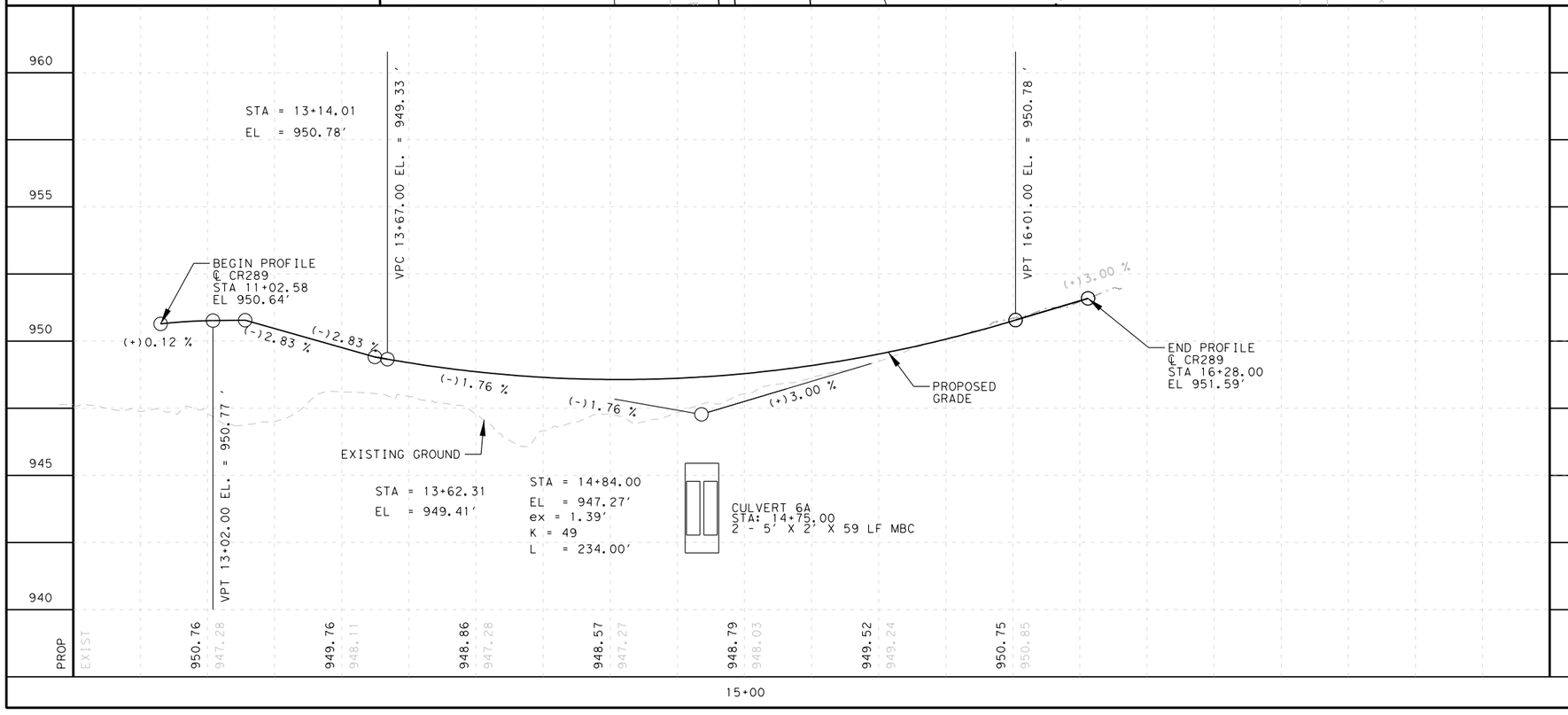

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WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
PLAN & PROFILE
BIG VALLEY SPUR / CR 289

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY		JOB No.	SHEET No.
CHECKED:	WILLIAMSON			125

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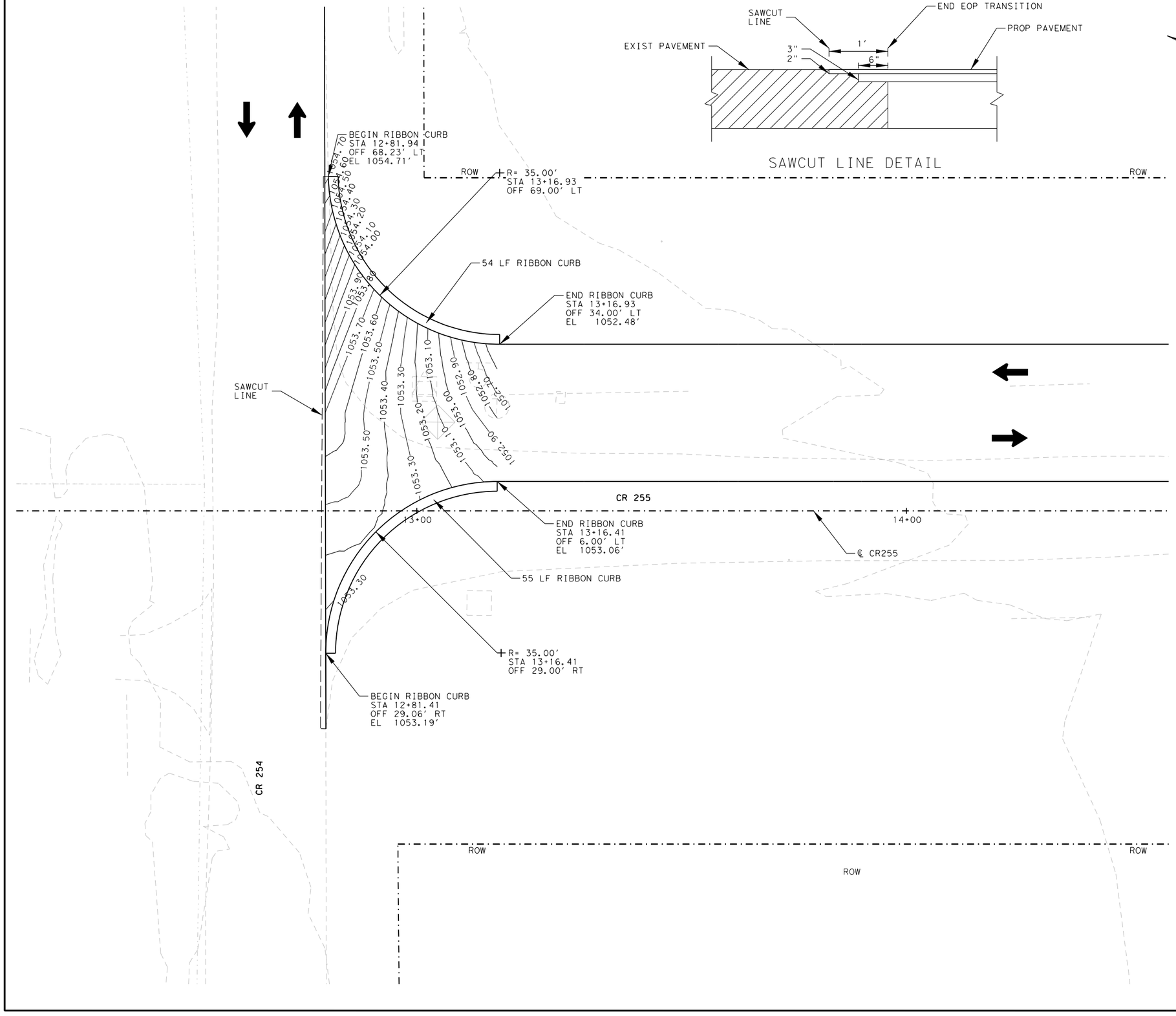

SAWCUT LINE DETAIL

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

1. ALL STATION AND OFFSET REFERENCES IN SHEET ARE TO ALIGNMENT CR255 EXCEPT AS NOTED.
2. SEE ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY GEOMETRY.
3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
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WILCO TEXAS

WILLIAMSON COUNTY
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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12170
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & CR 254

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			126

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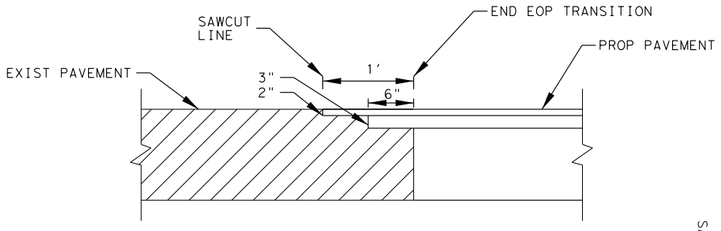

SAWCUT LINE DETAIL

SAFFELL, ROBERT B & HOLLY A 0.58 AC

ANDERSON, DAVID C & NANCY G 2.326 AC

℄ CR255

℄ BONWINDE

BON WINDE RD

63+00

10+00

65+00

END RIBBON CURB
STA 10+00.00
OFF 46.00' LT
EL 999.18'

47 LF RIBBON CURB

R= 30'
STA 10+08.79
OFF 46.00 LT

BEGIN RIBBON CURB
STA 10+30.00
OFF 16.00' LT
EL 998.50'

END EOP TRANSITION
STA 10+47.51
OFF 16.00' LT
EL 998.15'

BEGIN EOP TRANSITION
TIE TO EXISTING
STA 11+12.61
OFF 10.50' LT
EL 996.71'

2.3:1 TRANSITION

998.50

SAWCUT LINE

BEGIN EOP TRANSITION
TIE TO EXISTING
STA 11+12.61
OFF 11.11' RT
EL 996.02'

3.9:1 TRANSITION

997.00

997.25

997.50

997.75

998.00

END EOP TRANSITION
STA 10+69.03
OFF 16.00' RT
EL 996.71'

BEGIN RIBBON CURB
STA 10+30.00
OFF 16.00'RT
EL 997.56'

℄ CR255
STA 63+98.92=
℄ BONWINDE
STA 10+06.00

47 LF RIBBON CURB

R= 30.00'
STA 10+08.79
OFF 46.00' RT

END RIBBON CURB
STA 10+00.00
OFF 46.00' RT
EL 997.71'

ROW

0 10 20
SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

1. ALL STATION AND OFFSET REFERENCES IN SHEET ARE TO SIDESTREET ALIGNMENT EXCEPT AS NOTED.
2. SEE ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY GEOMETRY.
3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
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DEPT. OF
INFRASTRUCTURE

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TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & BON WINDE RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			127

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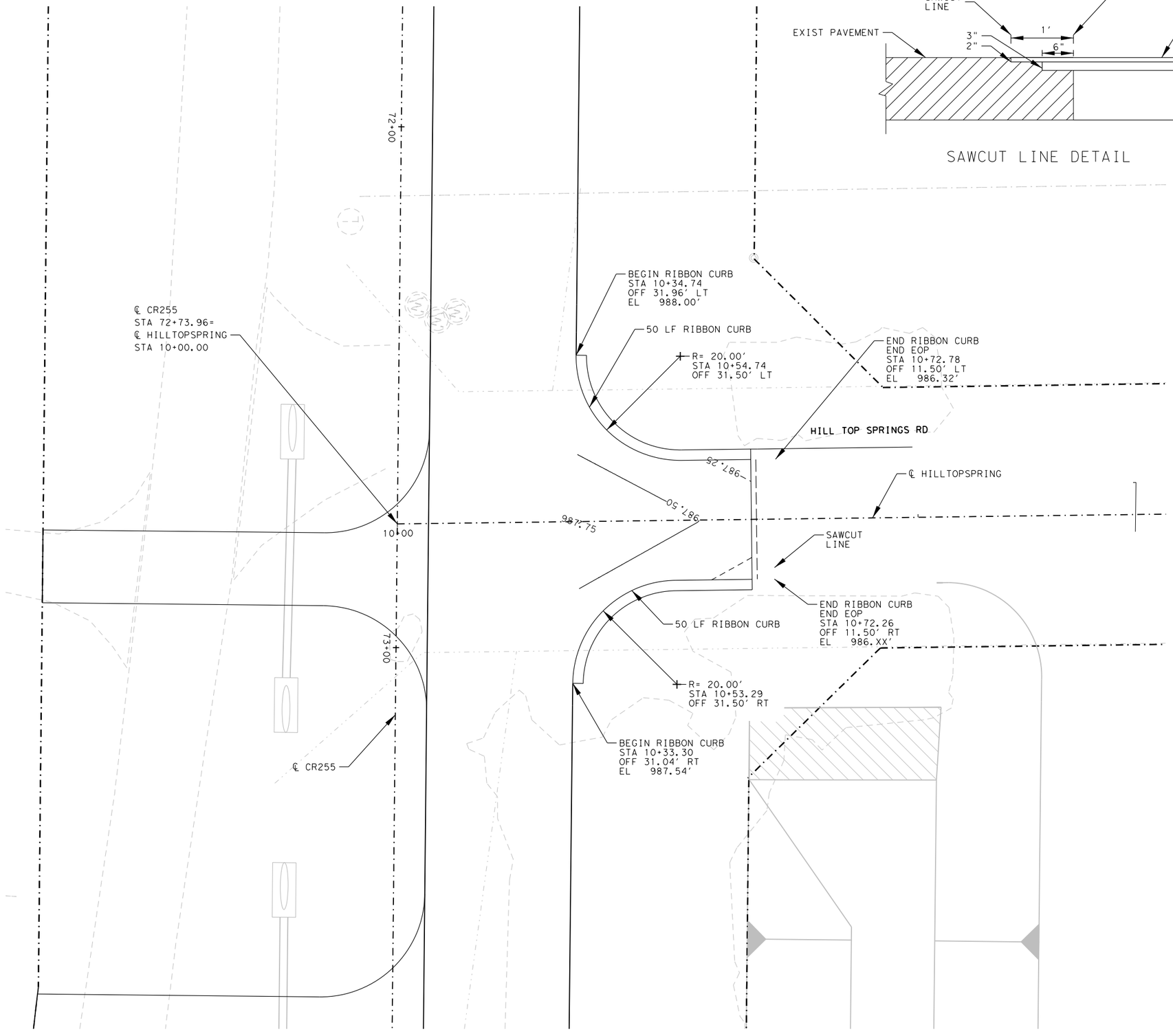

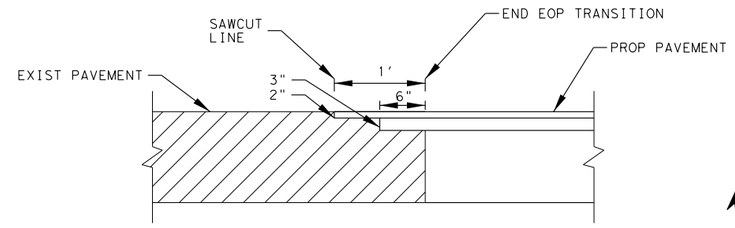

SAWCUT LINE DETAIL

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

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2. SEE ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY GEOMETRY.
3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
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WILLIAMSON COUNTY
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Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 &
HILL TOP SPRINGS RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			128

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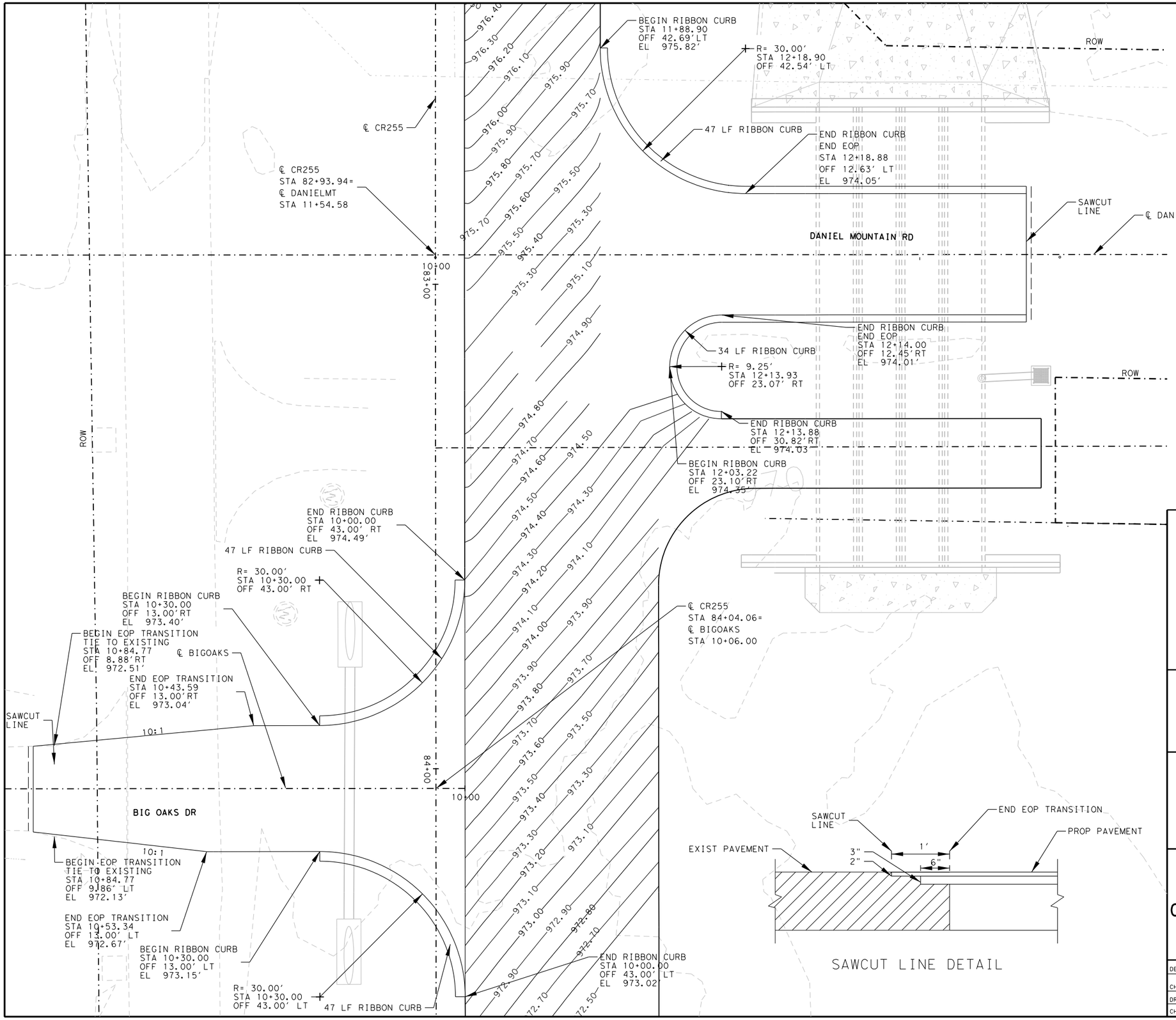

SAWCUT LINE DETAIL

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

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STATE OF TEXAS
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WILLIAMSON COUNTY
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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & DANIEL MOUNTAIN RD
CR 255 & BIG OAKS DR

SHEET 1 OF 1

DESIGNED: ___	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED: ___		TEXAS		CR 255
DRAWN: ___	COUNTY			JOB No. / SHEET No.
CHECKED: ___	WILLIAMSON			129

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DATE: 7/11/2024 8:20
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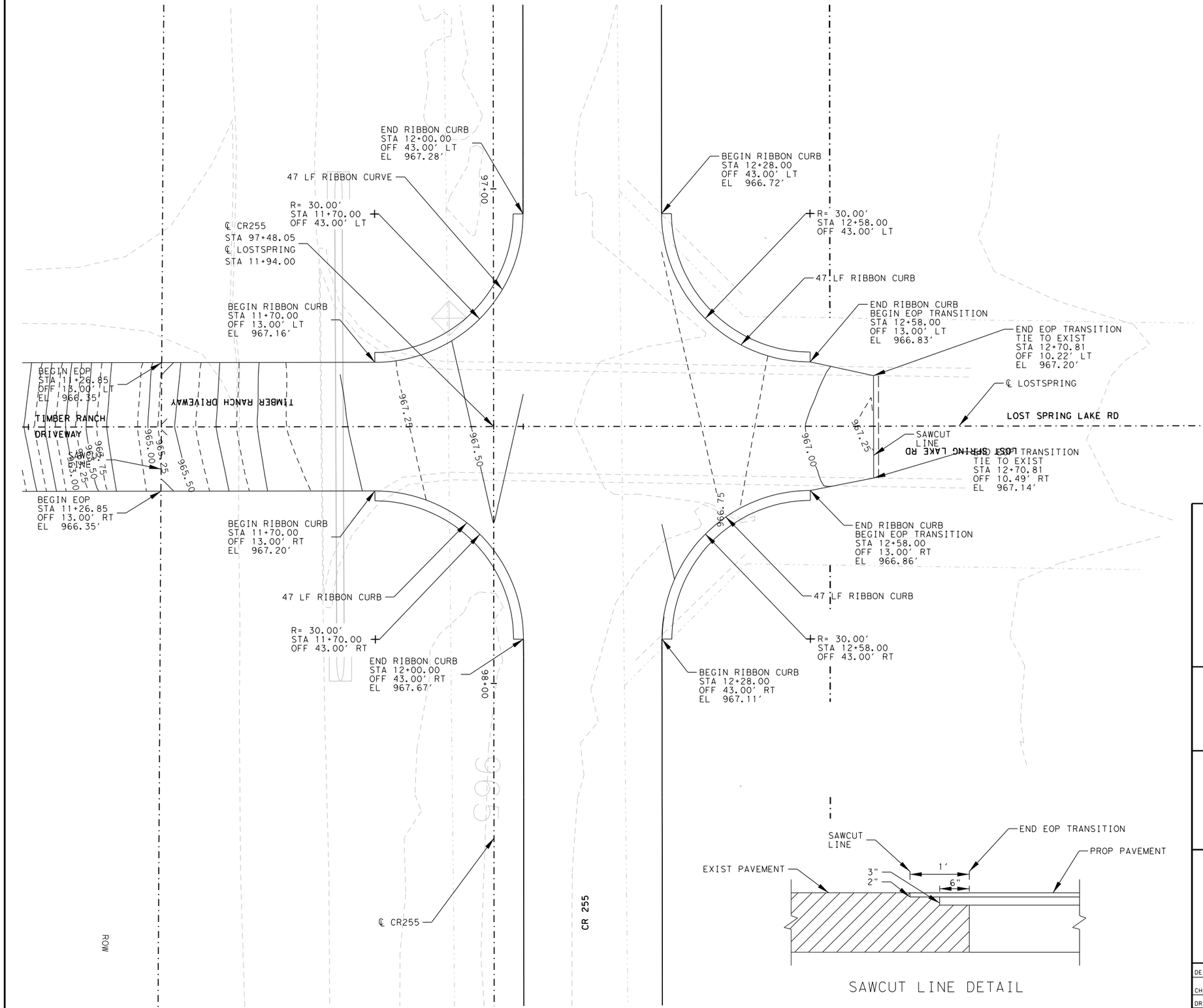

SAWCUT LINE DETAIL

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

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STATE OF TEXAS
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INFRASTRUCTURE

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TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & LOST SPRING LAKE RD/ TIMBER RANCH DR

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			130

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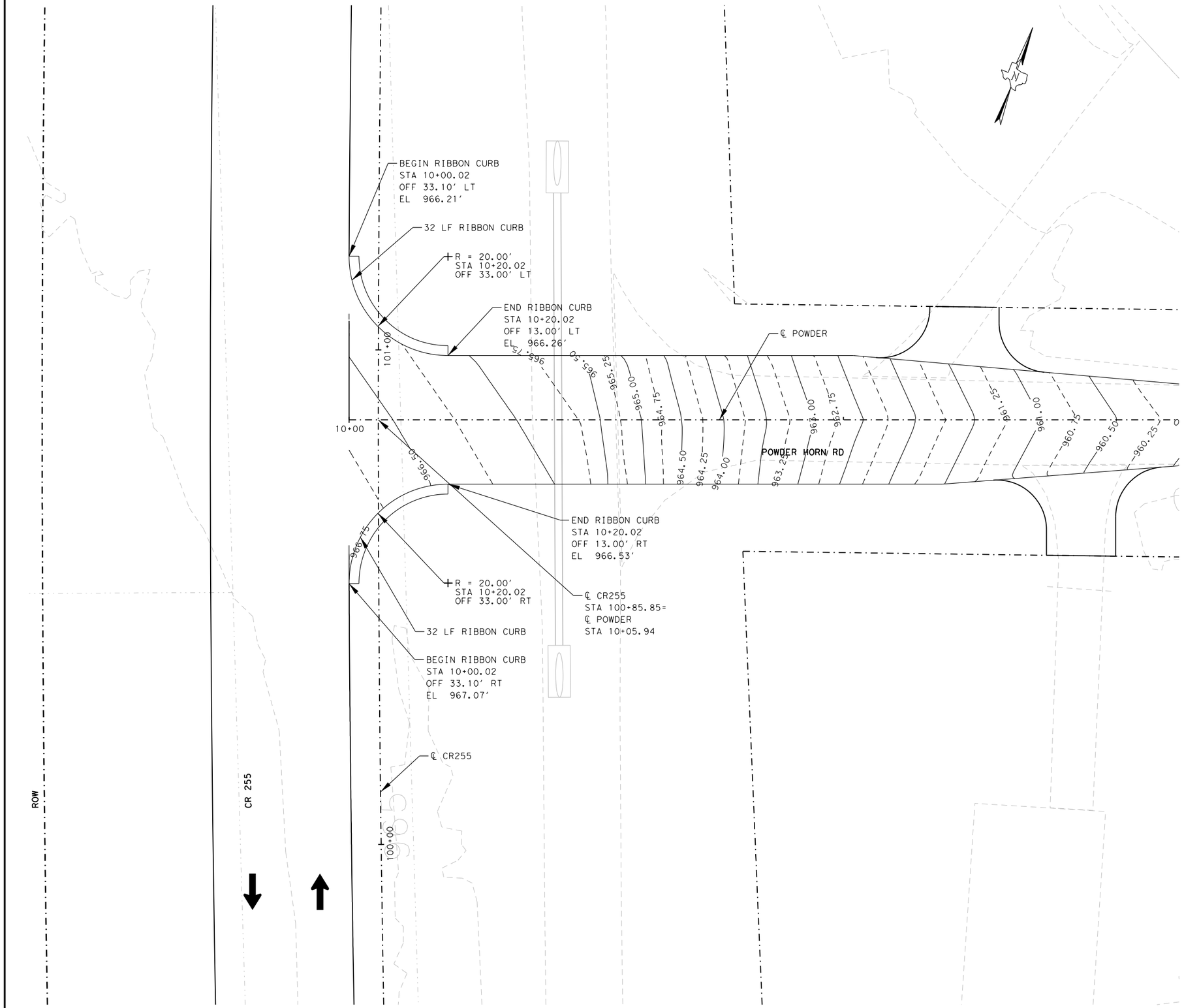

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

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3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

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INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
POWDER HORN RD

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			131

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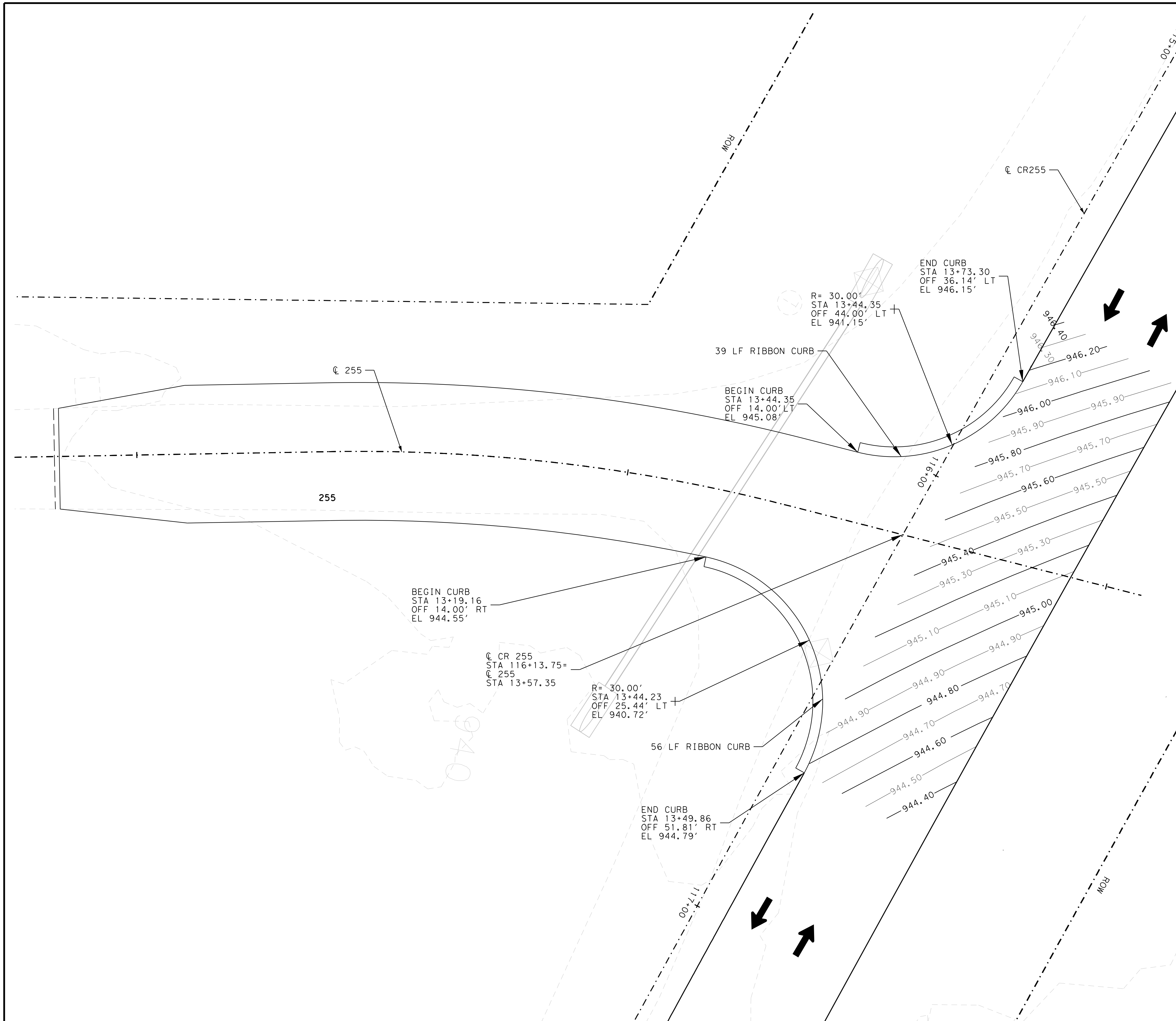

0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

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STATE OF TEXAS
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WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

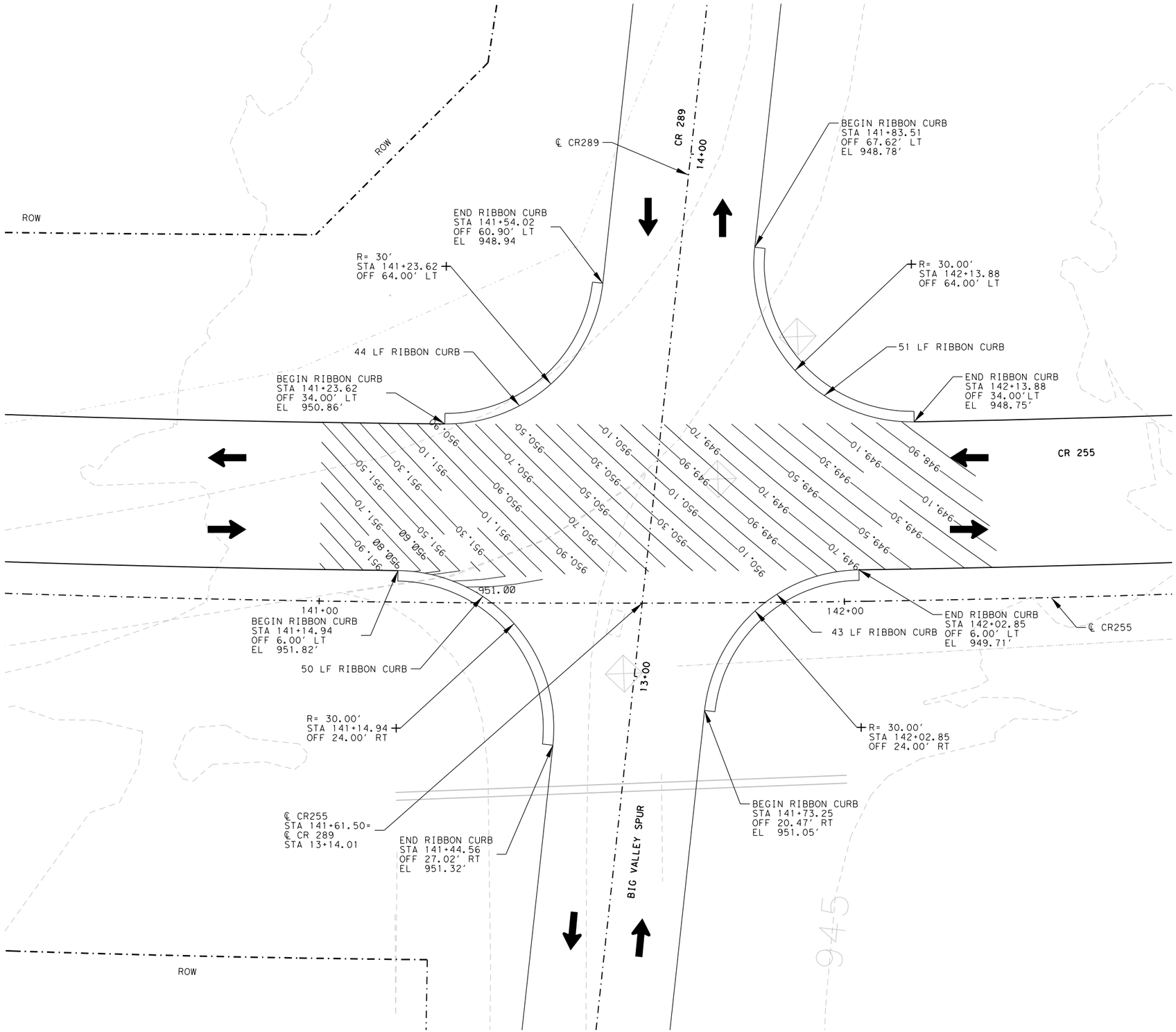
Seiler Lankes Group TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255 INTERSECTION DETAILS CR 255 & 255

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY		JOB No.	SHEET No.
CHECKED:	WILLIAMSON			132



0 10 20

SCALE: 1" = 20'

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

1. ALL STATION AND OFFSET REFERENCES IN SHEET ARE TO ALIGNMENT CR255 EXCEPT AS NOTED.
2. SEE ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY GEOMETRY.
3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & CR 289

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			133

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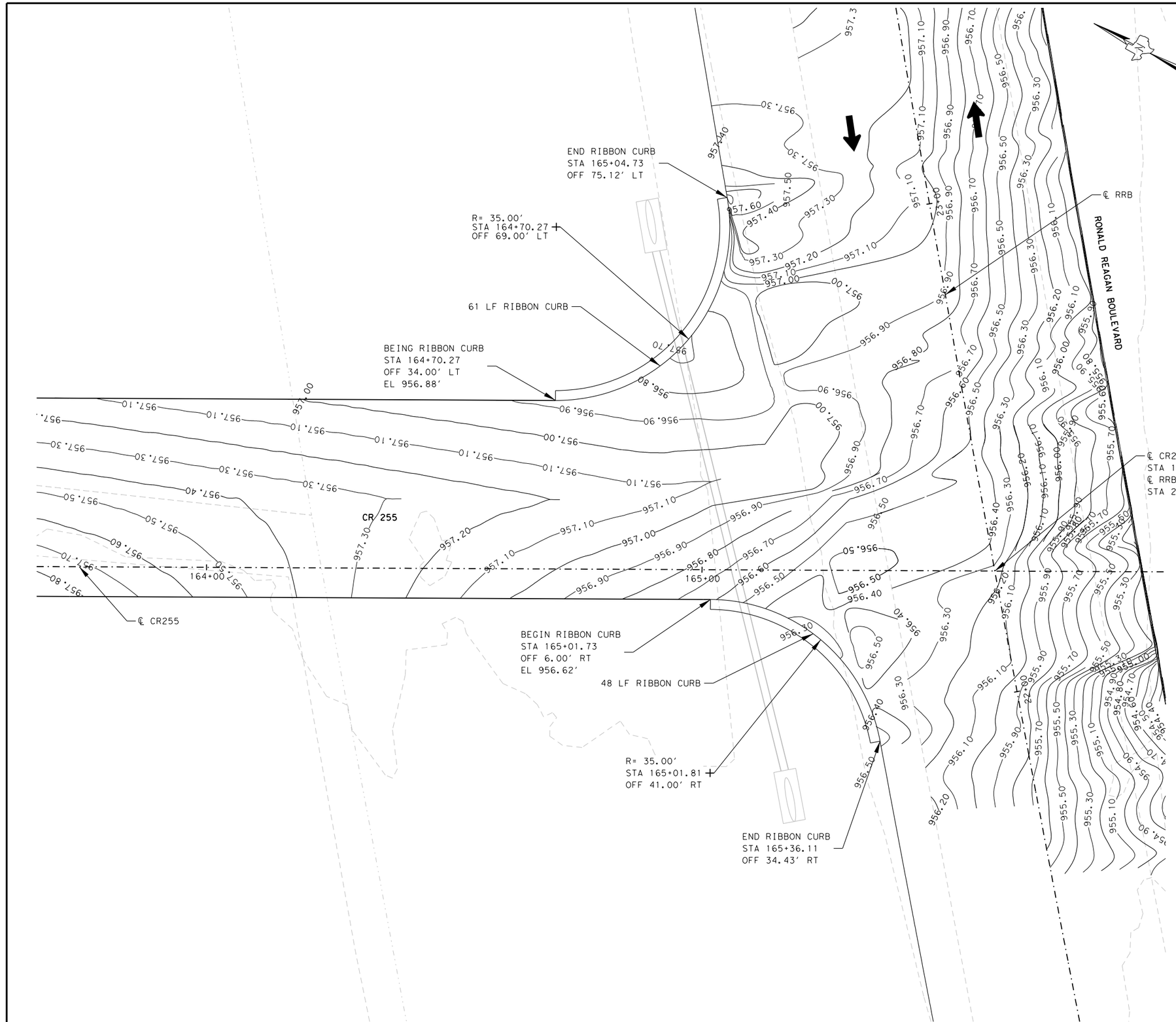

LEGEND

- FENCE LINE
- TRAFFIC FLOW ARROW
- OVERHEAD ELECTRIC
- PROPERTY LINE
- CONTOUR LINE

NOTES:

1. ALL STATION AND OFFSET REFERENCES IN SHEET ARE TO ALIGNMENT CR255 EXCEPT AS NOTED.
2. SEE ROADWAY PLAN & PROFILE SHEETS FOR ROADWAY GEOMETRY.
3. SEE APPLICABLE ROADWAY STANDARD SHEETS FOR ADDITIONAL INFORMATION.

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
INTERSECTION DETAILS
CR 255 & RONALD REAGAN

SHEET 1 OF 1

DESIGNED: ____	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED: ____		TEXAS		CR 255
DRAWN: ____	COUNTY			JOB No. / SHEET No.
CHECKED: ____	WILLIAMSON			134

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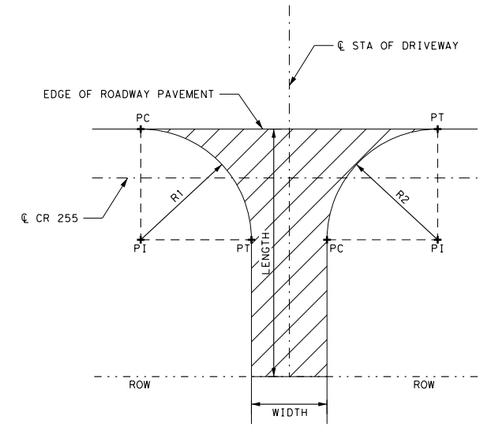
DRIVEWAY DETAILS

PLAN AND PROFILE SHEET	NO.	STA	LT/RT	WIDTH FT	LENGTH L1 FT	GRADE G1 %					RADIUS R1 FT	RADIUS R2 FT
Sheet 2 OF 16	1	22+95.25	LT	14.00	34.00	2.12					20	20
Sheet 2 OF 16	2	26+70.14	LT	14.00	34.00	0.96	9.667	0	8.7931	5.32	20	20
Sheet 3 OF 16	3	39+89.01	LT	14.00	34.00	0.90	11.67	0	7.7726	8	20	20
Sheet 4 OF 16	4	45+32.80	LT	23.00	34.00	0.06					25	25
Sheet 4 OF 16	5	47+64.64	LT	14.00	34.00	2.76					20	20
Sheet 4 OF 16	6	49+39.53	RT	14.00	74.00	6.77					20	20
Sheet 5 OF 16	7	52+00.52	LT	14.00	34.00	4.61					20	20
Sheet 5 OF 16	7A	54+94.16	RT	14.00	69.80						20	20
Sheet 5 OF 16	8	56+95.75	RT	14.00	79.46	2.82					20	20
Sheet 5 OF 16	9	58+65.44	LT	14.00	34.00	1.23					20	20
Sheet 6 OF 16	10	61+67.94	LT	14.00	19.85	0.67	3	0	12.05	2.69	20	20
Sheet 6 OF 16	11	64+59.03	LT	14.00	34.00	1.05	3	0	12.65	7.81	20	20
Sheet 6 OF 16	12	67+17.92	LT	14.00	19.60	2.09	7.67	0	9.66	3.49	20	20
Sheet 6 OF 16	13	68+89.71	RT	14.00	74.00	0.63					20	20
Sheet 6 OF 16	14	69+46.58	RT	14.00	74.00	1.03					20	20
Sheet 7 OF 16	15	72+85.10	RT	14.00	74.00	0.49					20	20
Sheet 7 OF 16	16	73+74.23	RT	14.00	74.90	0.84					20	20
Sheet 7 OF 16	17	76+43.14	RT	14.00	94.19	0.93					20	20
Sheet 7 OF 16	18	78+47.53	RT	14.00	88.22	0.96					20	20
Sheet 8 OF 16	19	83+35.01	LT	14.00	79.00	1.42					9.25	20
Sheet 8 OF 16	20	88+33.17	LT	14.00	34.00	2.21					20	20
Sheet 8 OF 16	21	88+74.95	RT	14.00	72.26	4.27					20	20
Sheet 8 OF 16	22	89+56.14	LT	14.00	34.00	1.59					20	20
Sheet 9 OF 16	23	90+85.87	RT	14.00	69.74	5.51					20	20
Sheet 9 OF 16	24	94+88.84	RT	14.00	71.42	7.10					20	20
Sheet 9 OF 16	25	99+06.38	RT	14.00	83.87	6.36					20	20
Sheet 10 OF 16	26	105+00.72	LT	14.00	34.00	4.43					20	20
Sheet 10 OF 16	27	107+32.09	LT	14.00	34.00	4.90					20	20
Sheet 10 OF 16	28	107+54.70	RT	14.00	74.00	4.74					20	20
Sheet 10 OF 16	29	108+49.27	LT	14.00	34.00	3.26					20	20
Sheet 11 OF 16	30	112+50.66	RT	14.00	74.00	3.51					20	20
Sheet 11 OF 16	31	113+06.39	LT	14.00	34.00	8.36					20	20
Sheet 11 OF 16	32	114+44.89	RT	14.00	74.00	4.44	10.99	12.94			20	20
Sheet 11 OF 16	33	119+01.21	LT	14.00	20.73	3.45					20	20
Sheet 12 OF 16	34	121+37.16	RT	14.00	50.21	8.00	3	0	21.32	8	20	20
Sheet 12 OF 16	35	127+48.22	RT	14.00	49.33	8.00	23.9997	8.97			20	20
Sheet 13 OF 16	36	130+25.68	LT	14.00	34.00	2.92	24	8.28			20	20
Sheet 13 OF 16	37	132+45.35	RT	14.00	74.00	3.90					20	20
Sheet 13 OF 16	38	132+93.99	LT	14.00	34.00	2.72					20	20
Sheet 13 OF 16	39	133+09.14	RT	14.00	74.00	4.12					20	20
Sheet 13 OF 16	40	135+17.74	RT	14.00	74.00	5.82					20	20
Sheet 13 OF 16	41	136+53.25	RT	14.00	74.00	7.03					20	20
CROSS STREET												
POWDER HORN	41A	13+37.32	LT	14	16						10	10
	41B	11+24.48	RT	14	12						10	10
CR 289	42	15+42.58	RT	14.00	18.83	0.30					15	15
RONALD REAGAN BLVD	43	18+59.30	RT	18	52.15	5.63					20	20



TYPICAL DRIVEWAY

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12170
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
DRIVEWAY DETAILS

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			135

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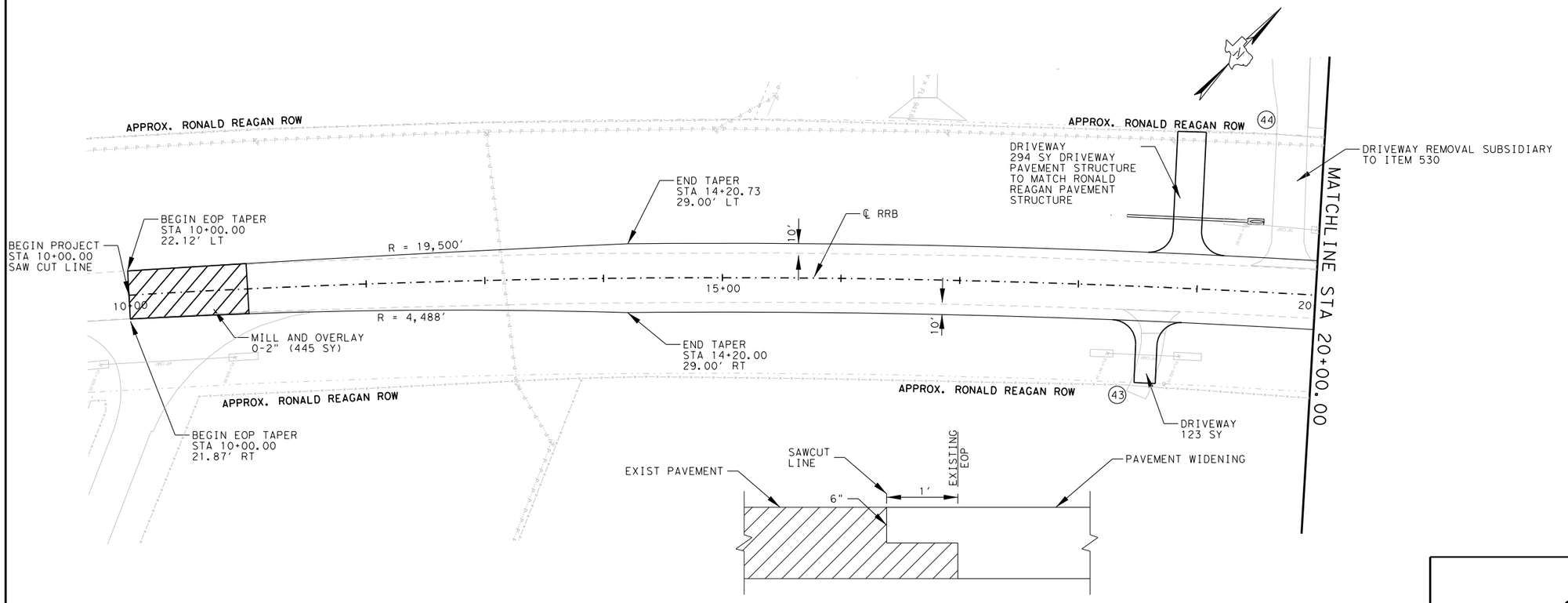
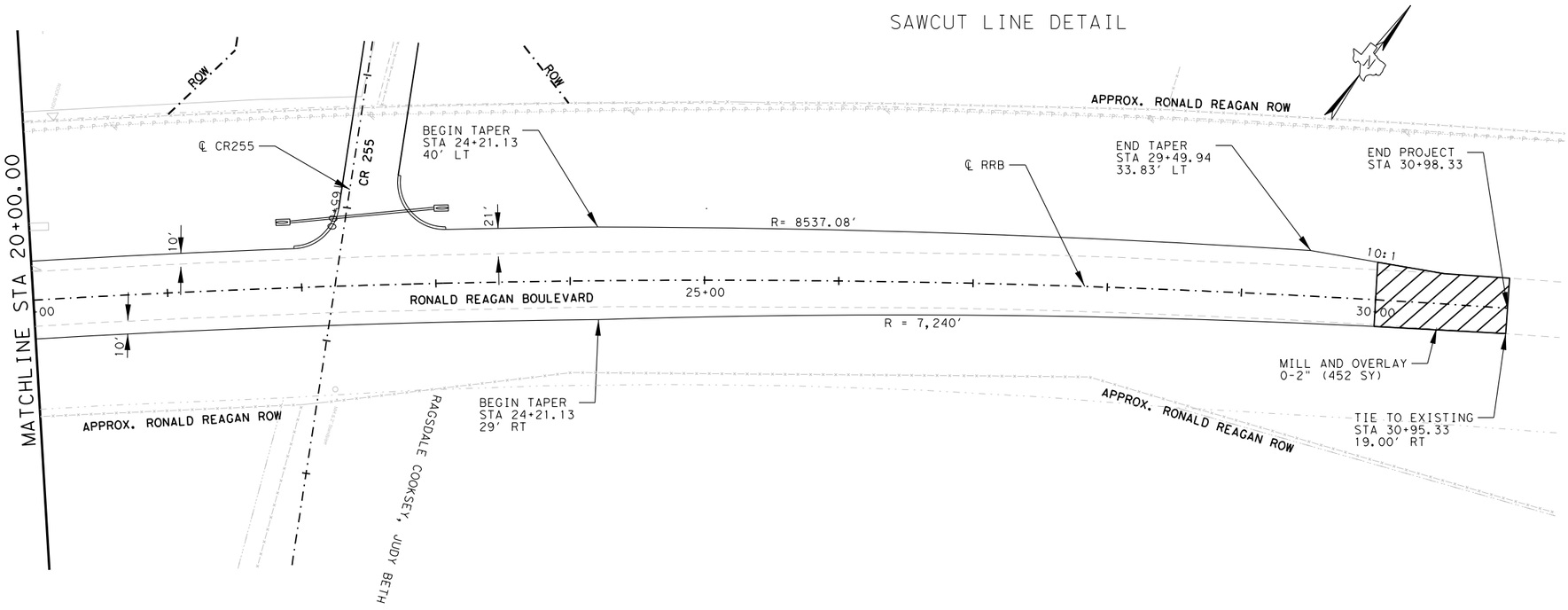
SCALE: 1" = 100'



SAWCUT LINE DETAIL



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
RONALD REAGAN
ROADWAY DETAILS
BEGIN TO END

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			136

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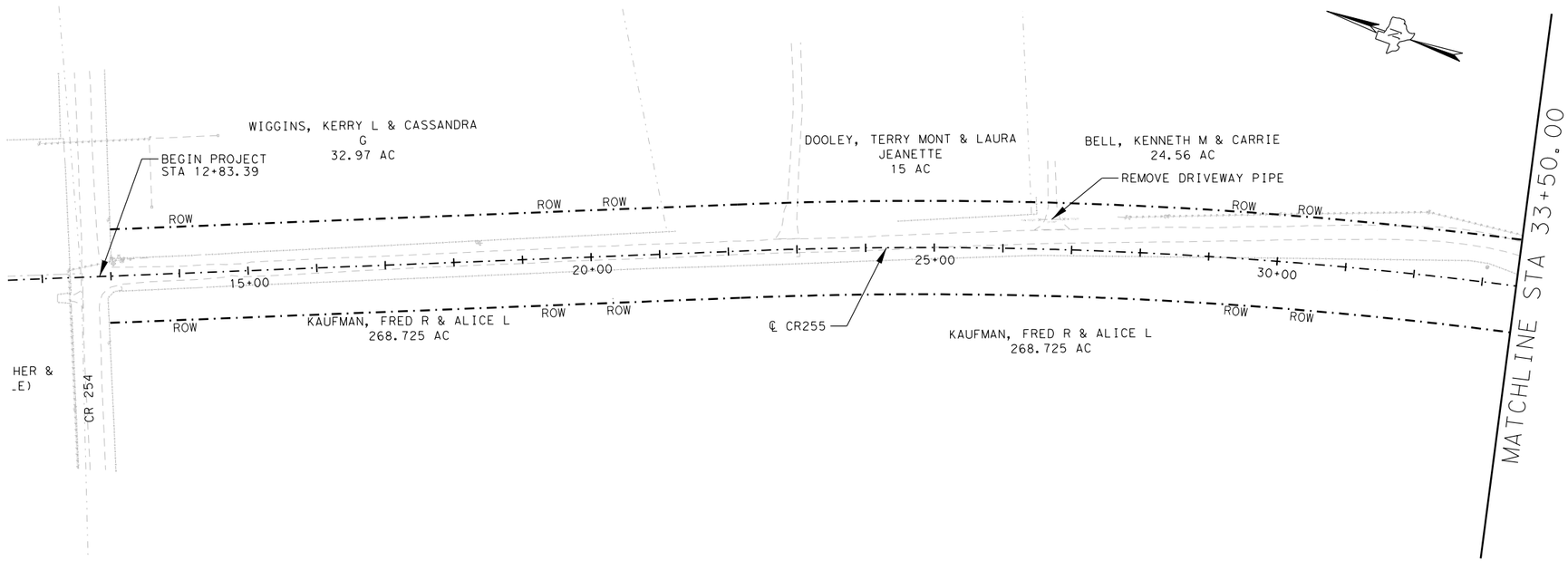
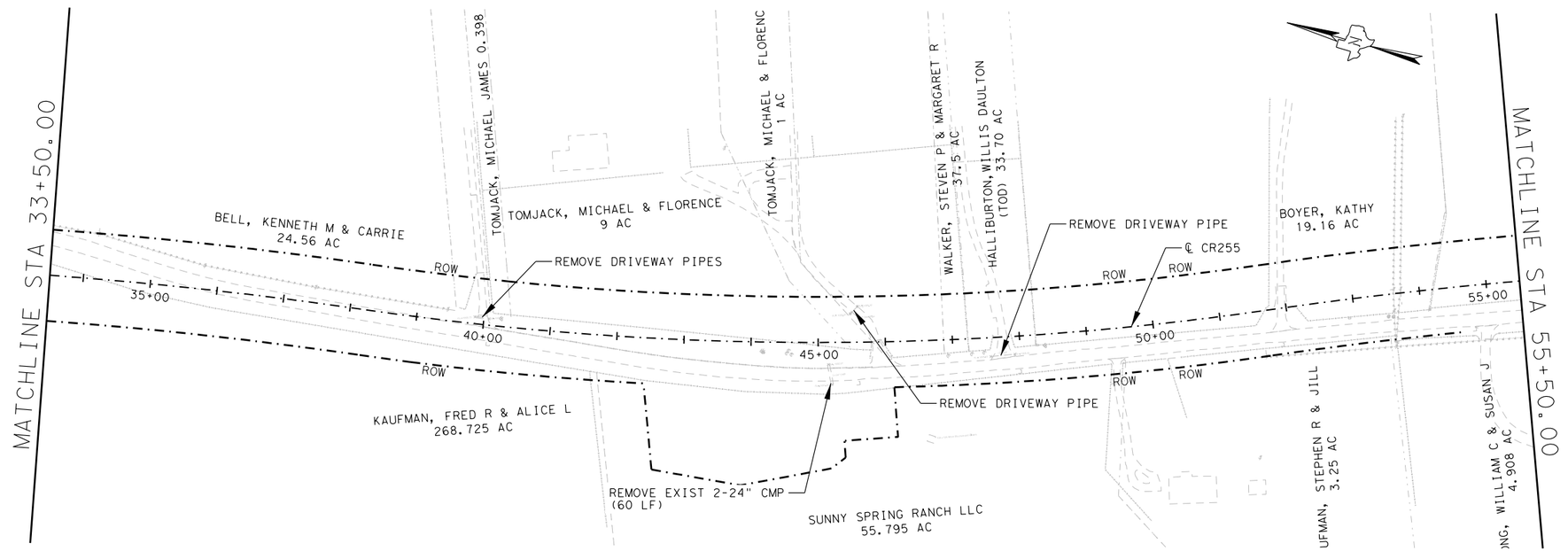
SCALE: 1" =200'

LEGEND

OBLITERATE ROADWAY





STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255
REMOVALS PLAN
BEGINNING TO STA 55+50.00

SHEET 1 OF 3

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			137

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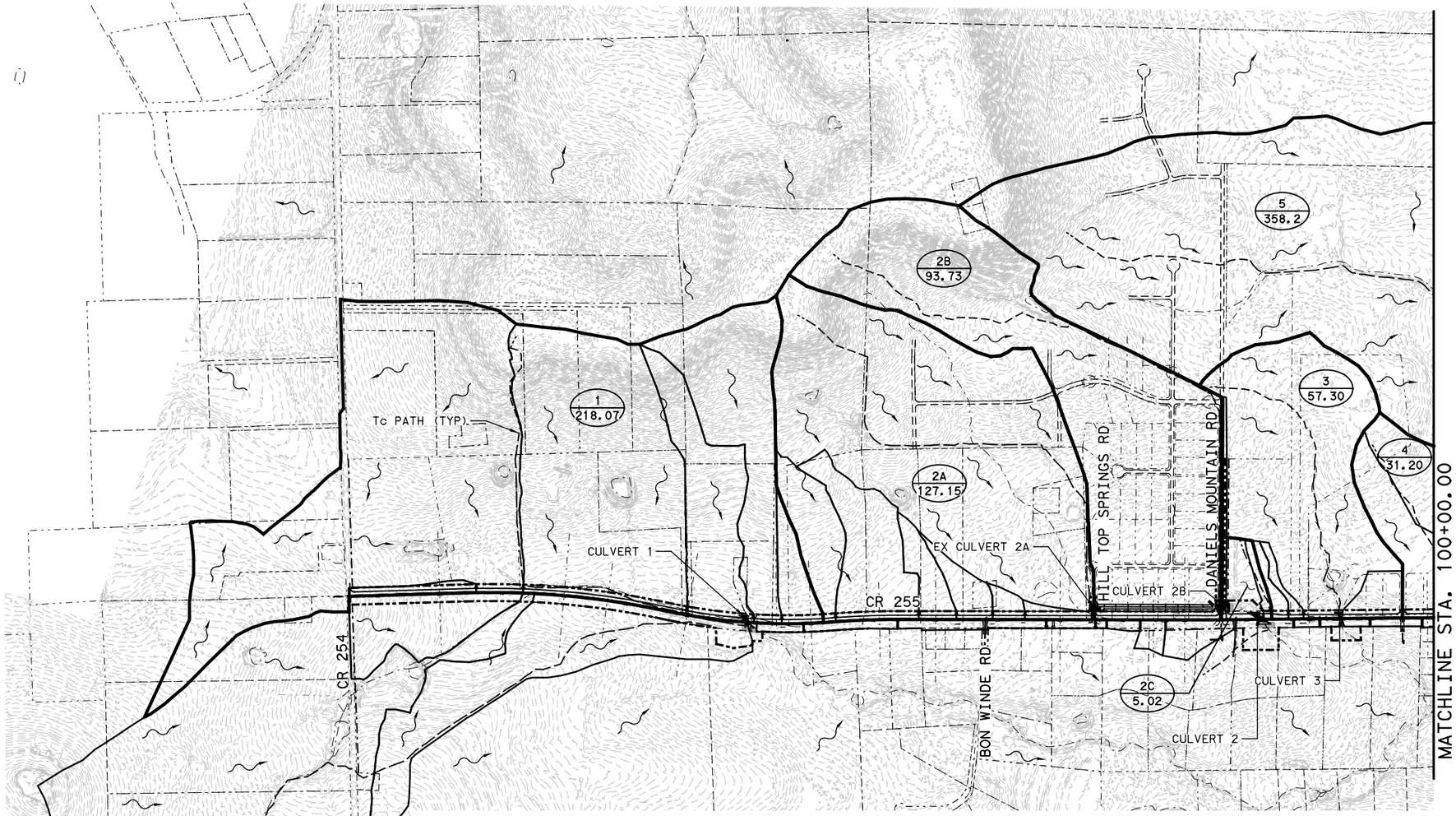

0 500 1000

SCALE: 1" = 1000'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. DRAINAGE AREAS LABELED ON THIS MAP APPLY TO CROSS CULVERT OUTFALLS ONLY. REFER TO THE DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY PIPE DESIGN AREAS. DUE TO THE SMALLER SCALE, SUB-AREA BOUNDARIES ARE SHOWN ON THIS MAP TO PROVIDE THE FULL LIMITS OF ALL INTERNAL DRAINAGE AREAS.
2. CONTOURS ARE SHOWN AT 1' INTERVALS & TERRAIN DATA WAS GATHERED FROM WILCO GIS WEBSITE AND TNRIS.
3. HEC HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS FOR THE NRCS METHOD.
4. WHILE AREAS 2A, 2B, & 2C ARE SMALLER THAN 200 AC, THEY COMBINE FOR THE DESIGN OF CULVERT 2 WHICH EXCEEDS 200 AC. THE NRCS METHOD IS USED TO COMPUTE PEAK FLOWS FOR CULVERT 2.
5. RATIONAL METHOD FLOWS WERE COMPUTED USING TXDOT'S ATLAS 14 SPREADSHEET TOOL (EBDLKUP-2019-VC6.2.10) PARTIAL DURATION, SAN GABRIEL RIVER ZONE, WILCO.

NO.	REVISION	BY	DATE

RUNOFF SUMMARY FOR DRAINAGE AREAS LARGER THAN 200 ACRES USING NRCS TR-55 METHOD

DRAINAGE AREA NO.	AC	SQ.MI.	CN	% IMP	INITIAL ABSTRACT (Ia) (IN)	TIME OF CONC Tc (MIN)	LAG TIME T (MIN)	RAINFALL DEPTH P(25) (IN)	DISCHARGE 25 YEAR Q(25) (CFS)	RAINFALL DEPTH P(100) (IN)	DISCHARGE 100 YEAR Q(100) (CFS)	COMMENTS
CLV 1	218.07	0.3407	65	1.20	1.08	31	18.60	8.04	659	11.20	1030	
DA 2A	127.15	0.1987	65	1.27	1.08	31	18.60	8.04	384	11.20	603	
DA 2B	93.73	0.1465	65	0.93	1.08	33	19.80	8.04	274	11.20	429	
DA 2C	5.02	0.0078	65	8.00	1.08	14	8.40	8.04	23	11.20	35.1	
CLV 2	225.90	0.3530	ROUTED IN HEC-HMS					8.04	669	11.20	1049	Culvert 2 combines Areas 2A, 2B & 2C.
CLV 2B	220.88	0.3451	ROUTED IN HEC-HMS					8.04	656	11.20	1031	Culvert 2B combines Areas 2A & 2B.
CLV 5	358.20	0.5597	65	0.54	1.08	36	21.60	8.04	994	11.20	1560	

RUNOFF SUMMARY FOR DRAINAGE AREAS SMALLER THAN 200 ACRES USING THE RATIONAL METHOD

DRAINAGE AREA NO.	ACRES	SUBAREAS (AC) SUBAREA 1 AREA (AC)	C	LAND USE	REMAINING AREA AREA (AC)	C	WEIGHTED C VALUE	TOTAL CA	TOTAL Tc (MIN)	INTENSITY I(25) (IN/HR)	DISCHARGE Q(25) (CFS)	INTENSITY I(100) (IN/HR)	DISCHARGE Q(100) (CFS)	COMMENTS
CLV 3	57.30	1.00	0.90	IMP	56.30	0.37	0.38	21.73	33.00	5.11	111	6.75	147	
CLV 4	31.20	1.20	0.90	IMP	30.00	0.37	0.39	12.18	20.00	6.63	80.7	8.65	105	
CLV 6A	52.10	1.00	0.90	IMP	51.10	0.34	0.35	18.27	24.00	6.06	111	7.94	145	
DA 6B	6.14	0.50	0.90	IMP	5.64	0.34	0.39	2.37	17.00	7.14	16.9	9.27	22	
CLV 6B	58.24										128		167	Culvert 6B combines Areas 6A & 6B
CLV 7	34.90	0.68	0.90	IMP	34.22	0.37	0.38	13.27	18.00	6.96	92.4	9.05	120	
CLV 8	10.20	0.74	0.90	IMP	9.46	0.37	0.41	4.17	11.00	8.49	35.4	10.89	45.4	

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann 7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255 OFFSITE DRAINAGE AREA MAP

BEGIN PROJECT TO STA 100+00

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	151

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SCALE: 1" = 1000'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. DRAINAGE AREAS LABELED ON THIS MAP APPLY TO CROSS CULVERT OUTFALLS ONLY. REFER TO THE DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY PIPE DESIGN AREAS. DUE TO THE SMALLER SCALE, SUB-AREA BOUNDARIES ARE SHOWN ON THIS MAP TO PROVIDE THE FULL LIMITS OF ALL INTERNAL DRAINAGE AREAS.
2. CONTOURS ARE SHOWN AT 1' INTERVALS & TERRAIN DATA WAS GATHERED FROM WILCO GIS WEBSITE AND TNRIS.
3. HEC HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS FOR THE NRCS METHOD.
4. RATIONAL METHOD FLOWS WERE COMPUTED USING TXDOT'S ATLAS 14 SPREADSHEET TOOL (EBDLKUP-2019-VC6.2.10) PARTIAL DURATION, SAN GABRIEL RIVER ZONE, WILCO.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
OFFSITE
DRAINAGE AREA MAP

STA 100+00 TO END PROJECT

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	152

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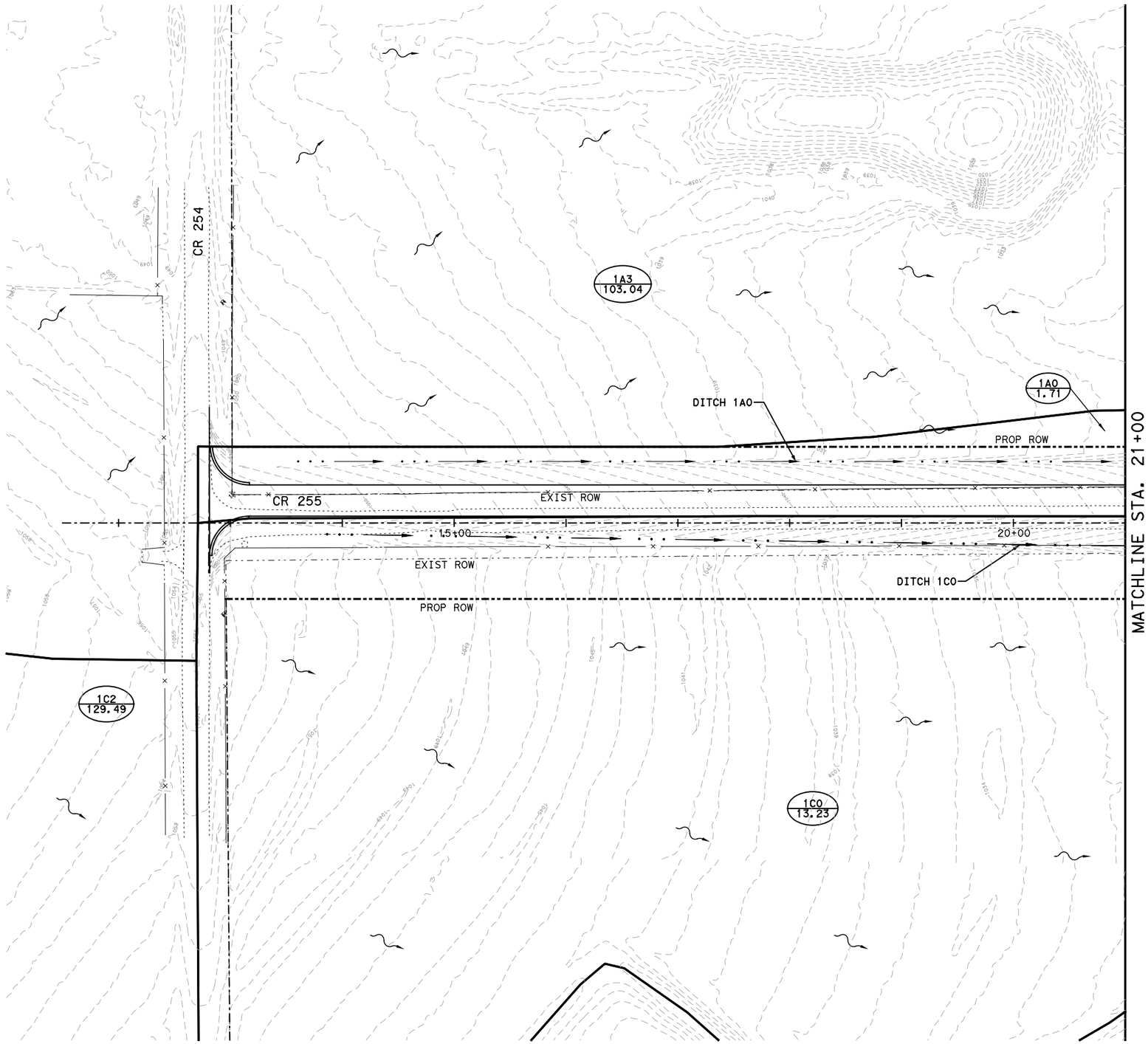

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
2. THESE DRAINAGE AREA MAPS REFLECT THE INTERNAL DRAINAGE BOUNDARIES NEEDED TO COMPUTE PEAK FLOWS USING THE RATIONAL METHOD FOR THE DESIGN OF DITCHES AND DRIVEWAY CULVERTS. REFER TO THE OFFSITE DRAINAGE AREA MAPS FOR THE FULL LIMITS OF IDENTIFIED DRAINAGE BOUNDARIES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

BEGIN PROJECT TO STA 21+00

SHEET 1 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	153

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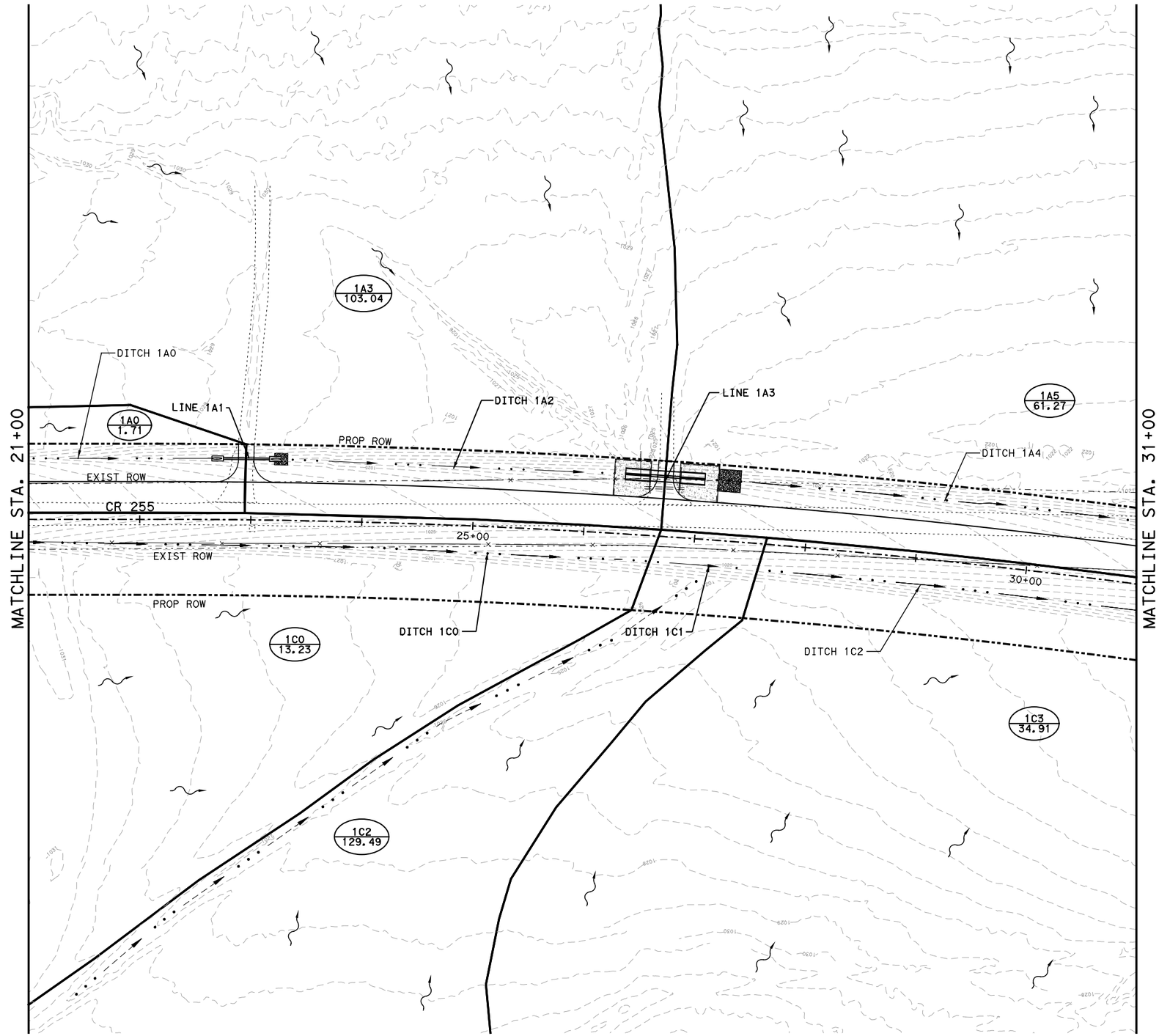

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
2. THESE DRAINAGE AREA MAPS REFLECT THE INTERNAL DRAINAGE BOUNDARIES NEEDED TO COMPUTE PEAK FLOWS USING THE RATIONAL METHOD FOR THE DESIGN OF DITCHES AND DRIVEWAY CULVERTS. REFER TO THE OFFSITE DRAINAGE AREA MAPS FOR THE FULL LIMITS OF IDENTIFIED DRAINAGE BOUNDARIES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann, P.E. 7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 21+00 TO 31+00

SHEET 2 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	154

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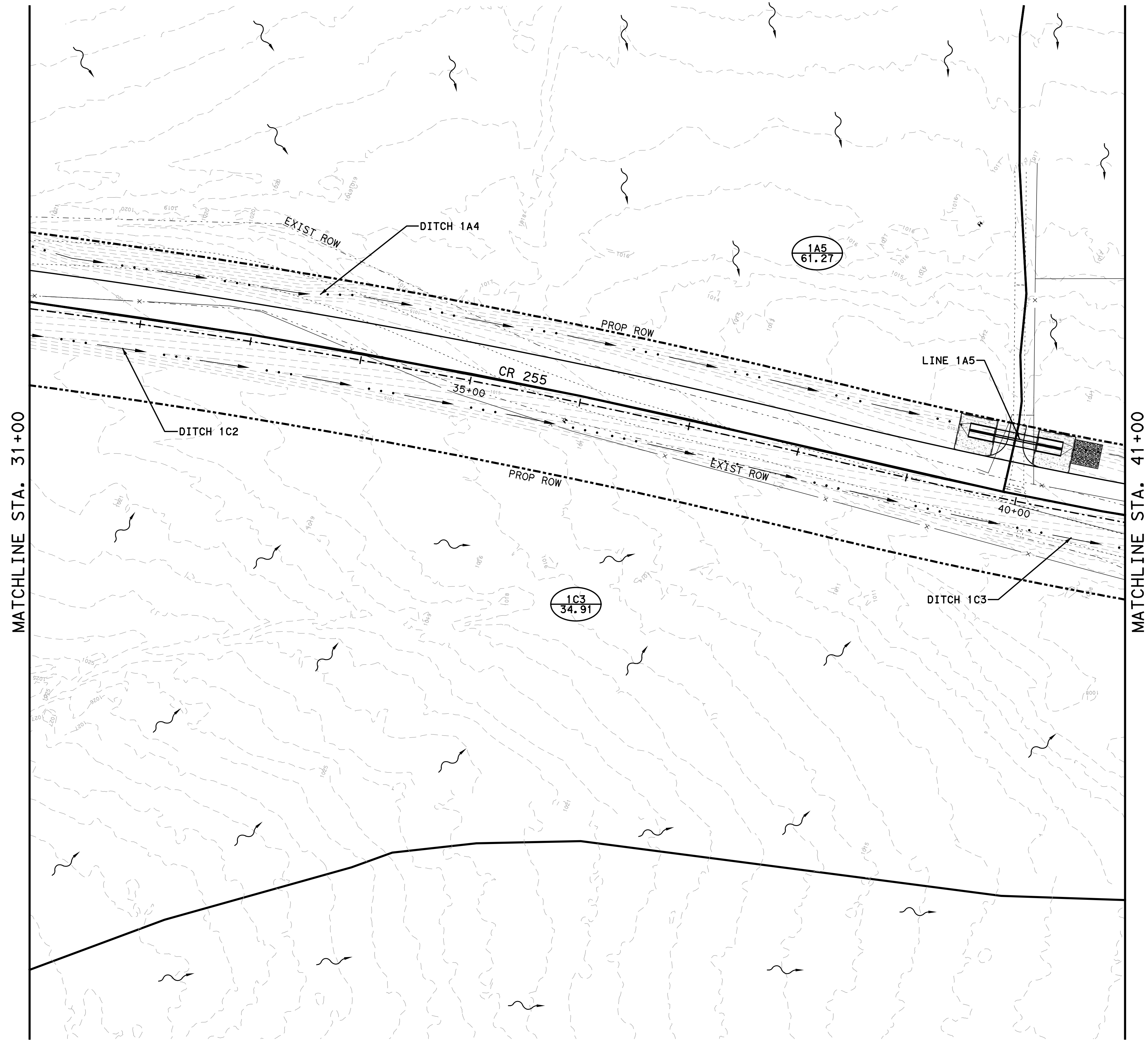

SCALE: 1" = 100'

LEGEND

X	AREA I.D.
X.XX	AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG
CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 31+00 TO 41+00

SHEET 3 OF 16

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
DESIGNED:						
CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	155

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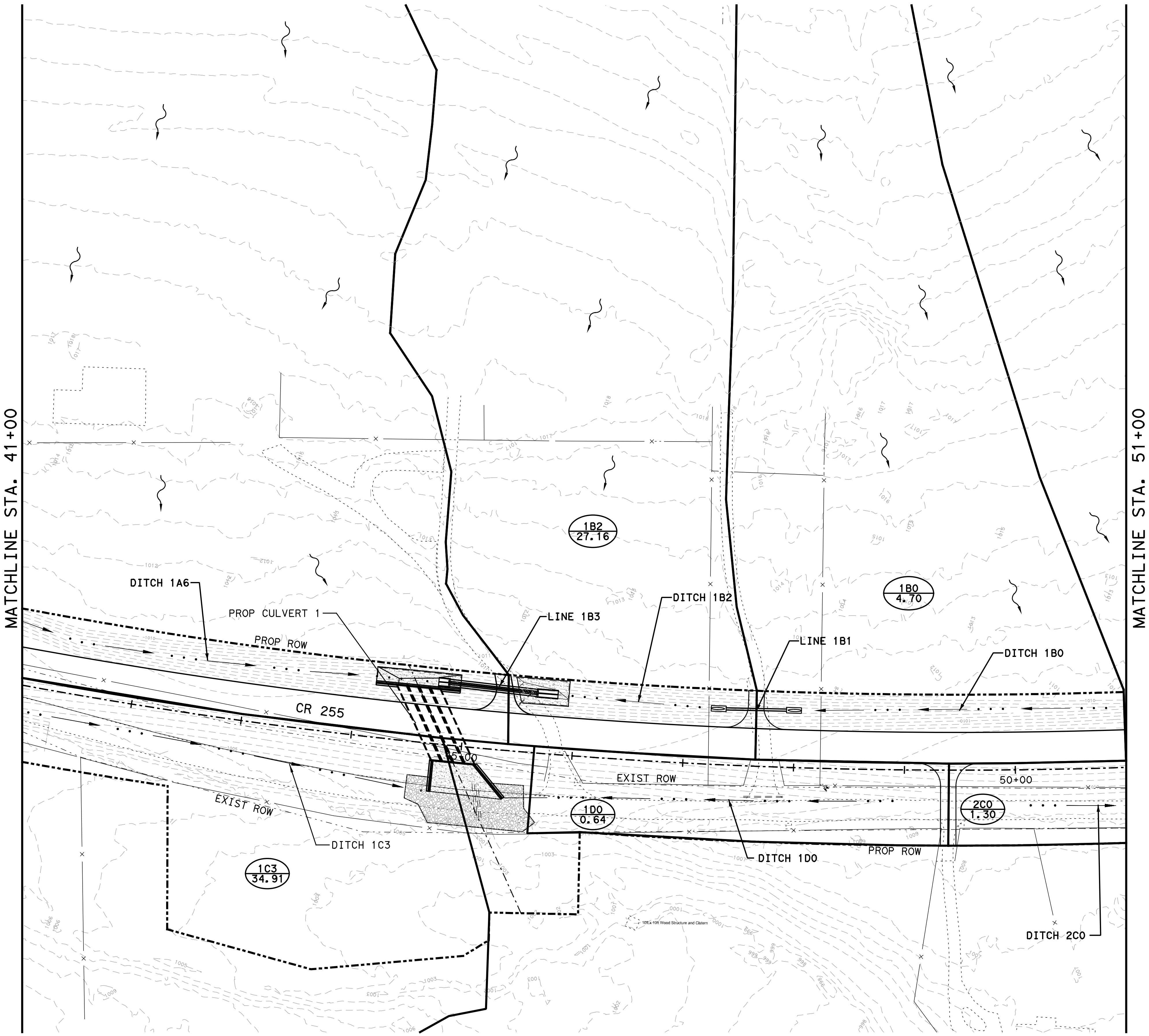

0 50 100
SCALE: 1" = 100'

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
STA 41+00 TO 51+00

SHEET 4 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 156

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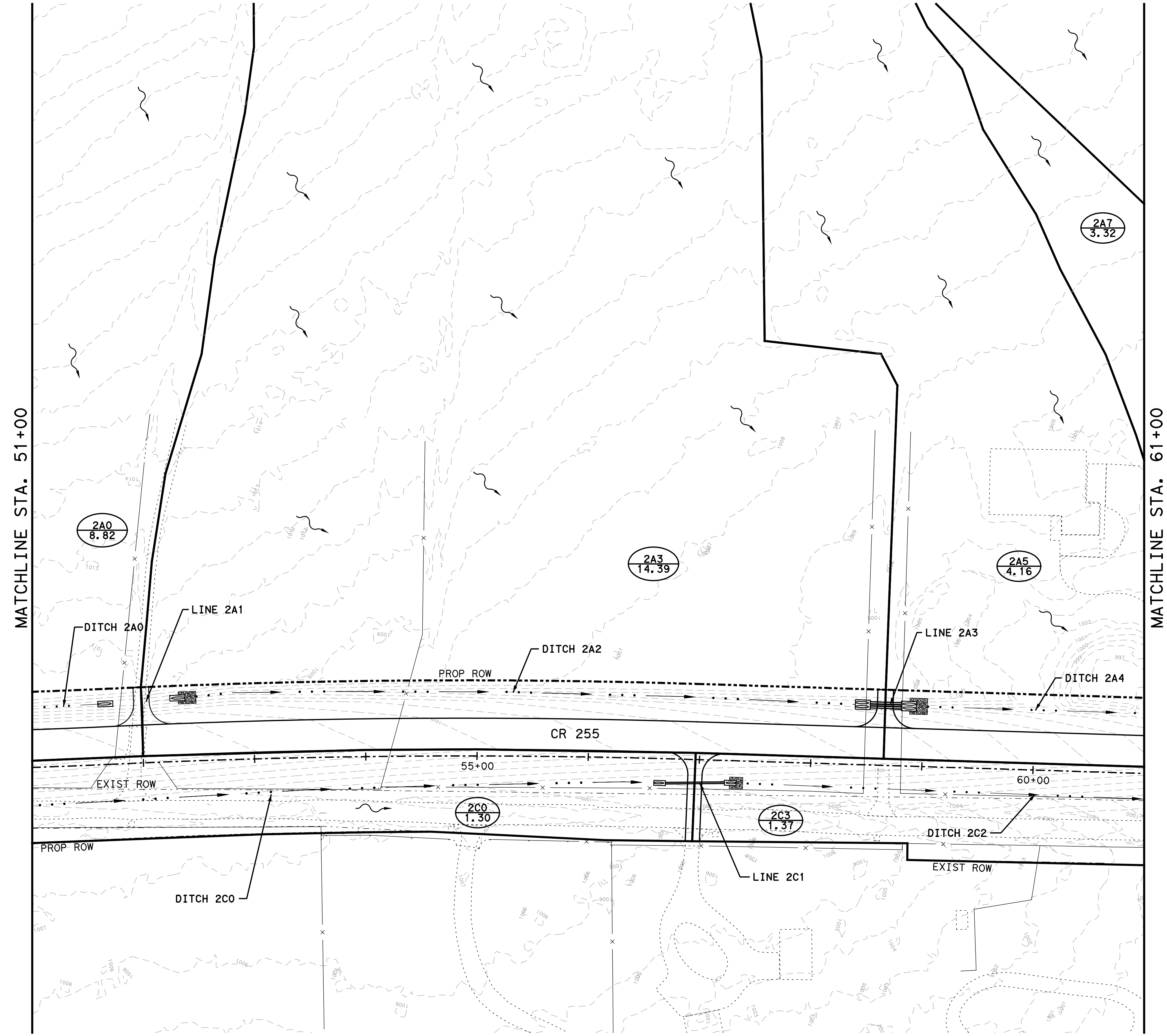

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
STA 51+00 TO 61+00

SHEET 5 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	157

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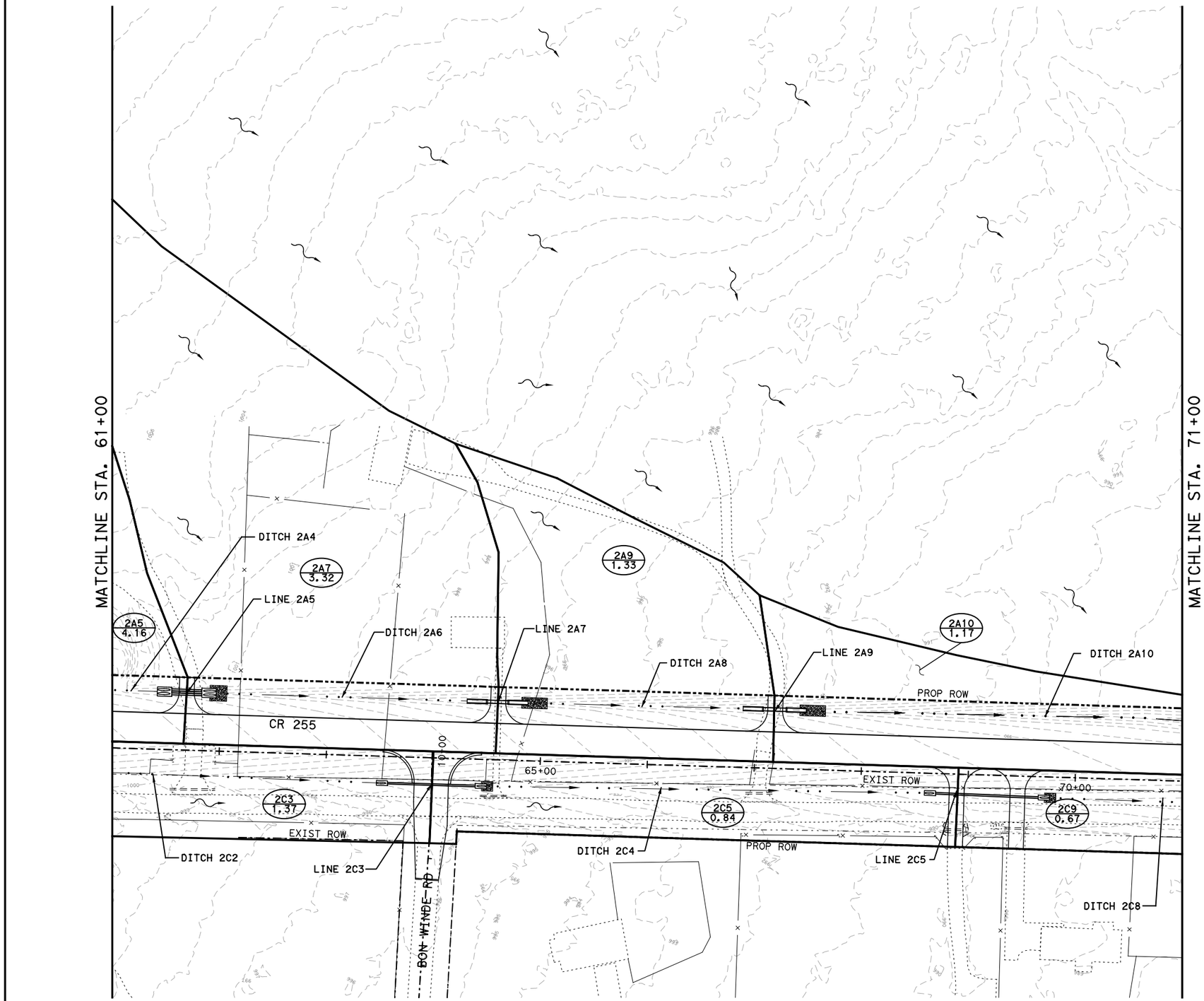

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS — CLAY E. GANN — 88491 — LICENSED PROFESSIONAL ENGINEER

7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 61+00 TO 71+00

SHEET 6 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	158

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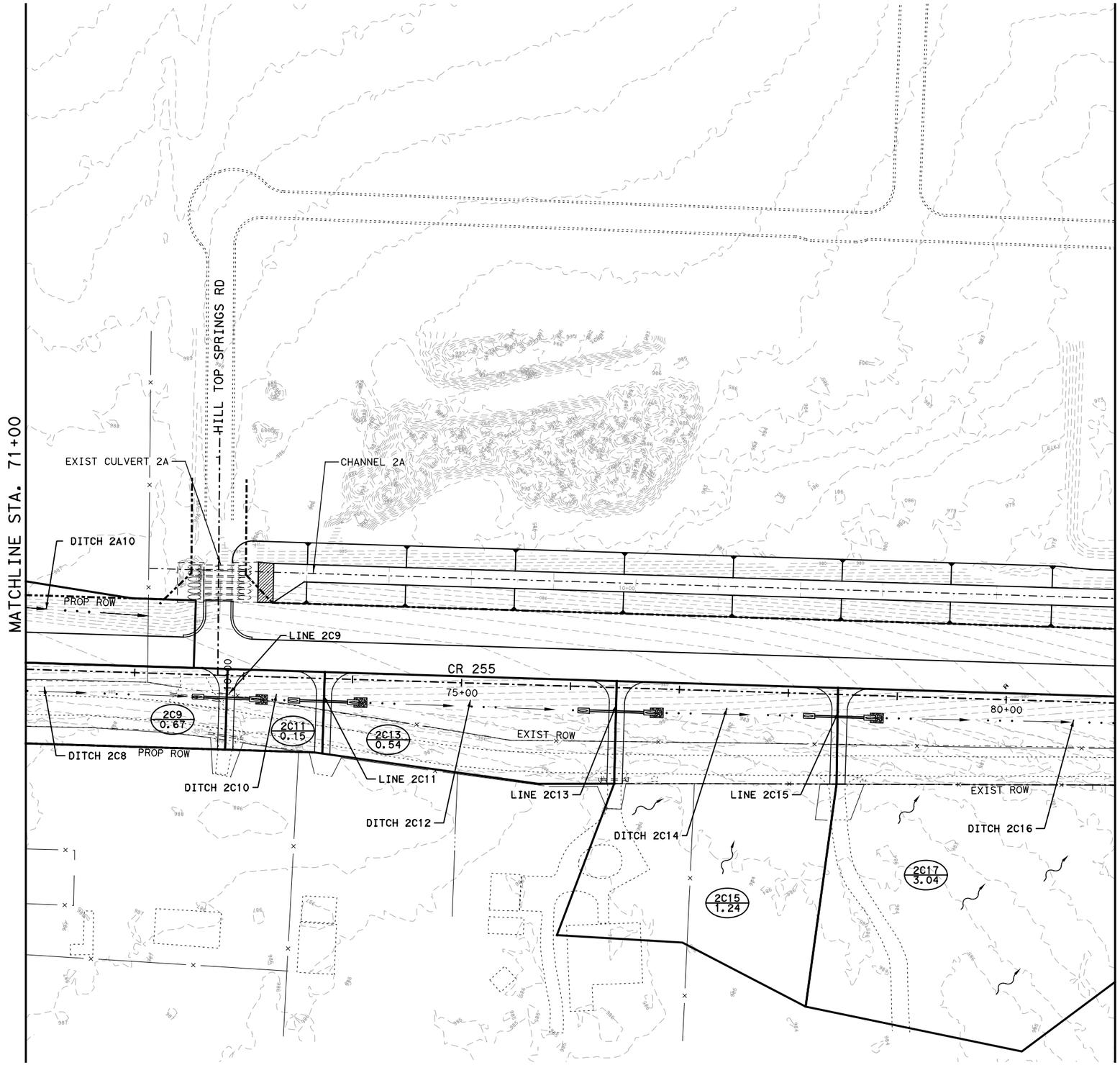

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 71+00 TO 81+00

SHEET 7 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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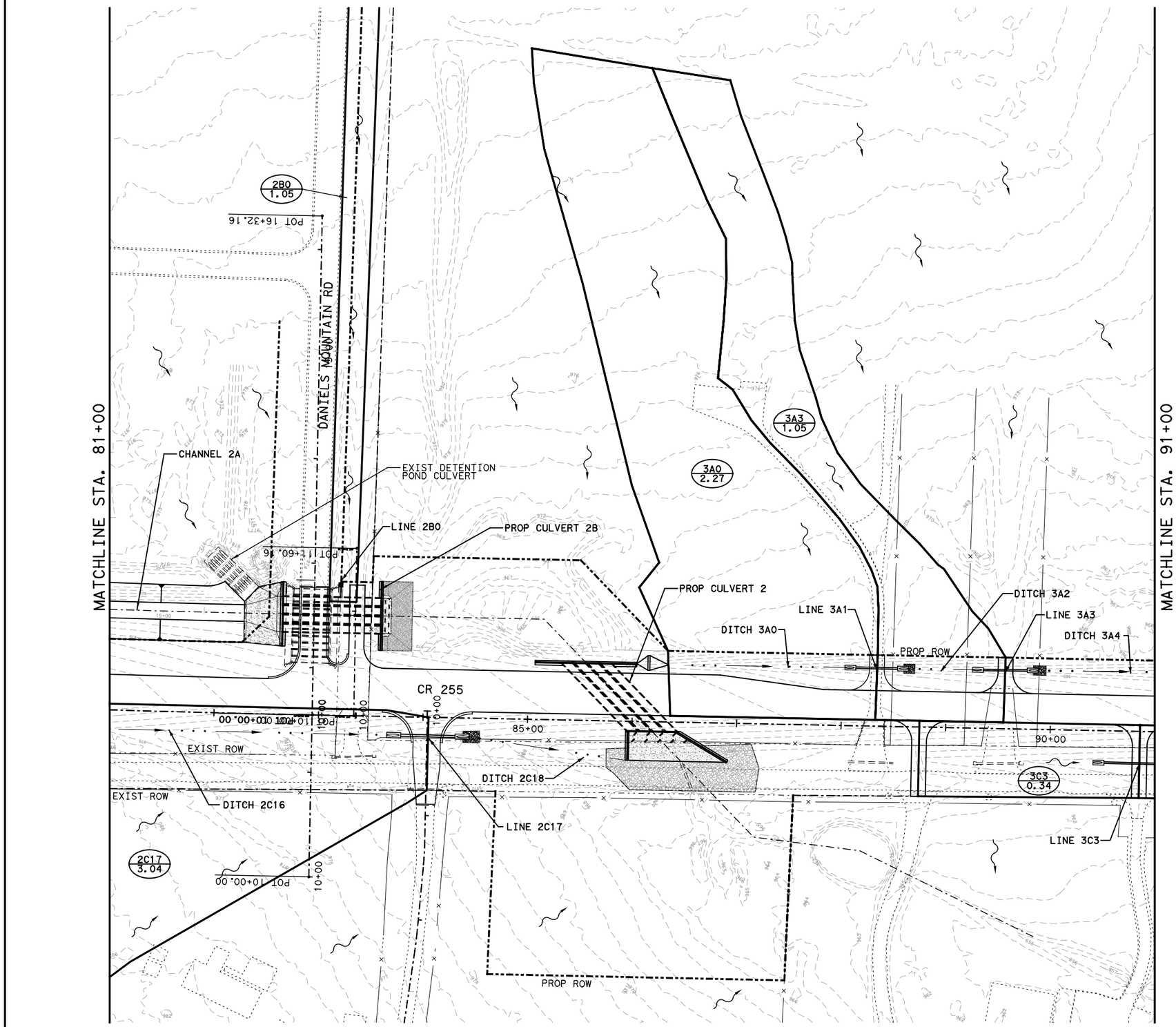

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS — DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 81+00 TO 91+00

SHEET 8 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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SCALE: 1" = 100'

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 91+00 TO 101+00

SHEET 9 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255

DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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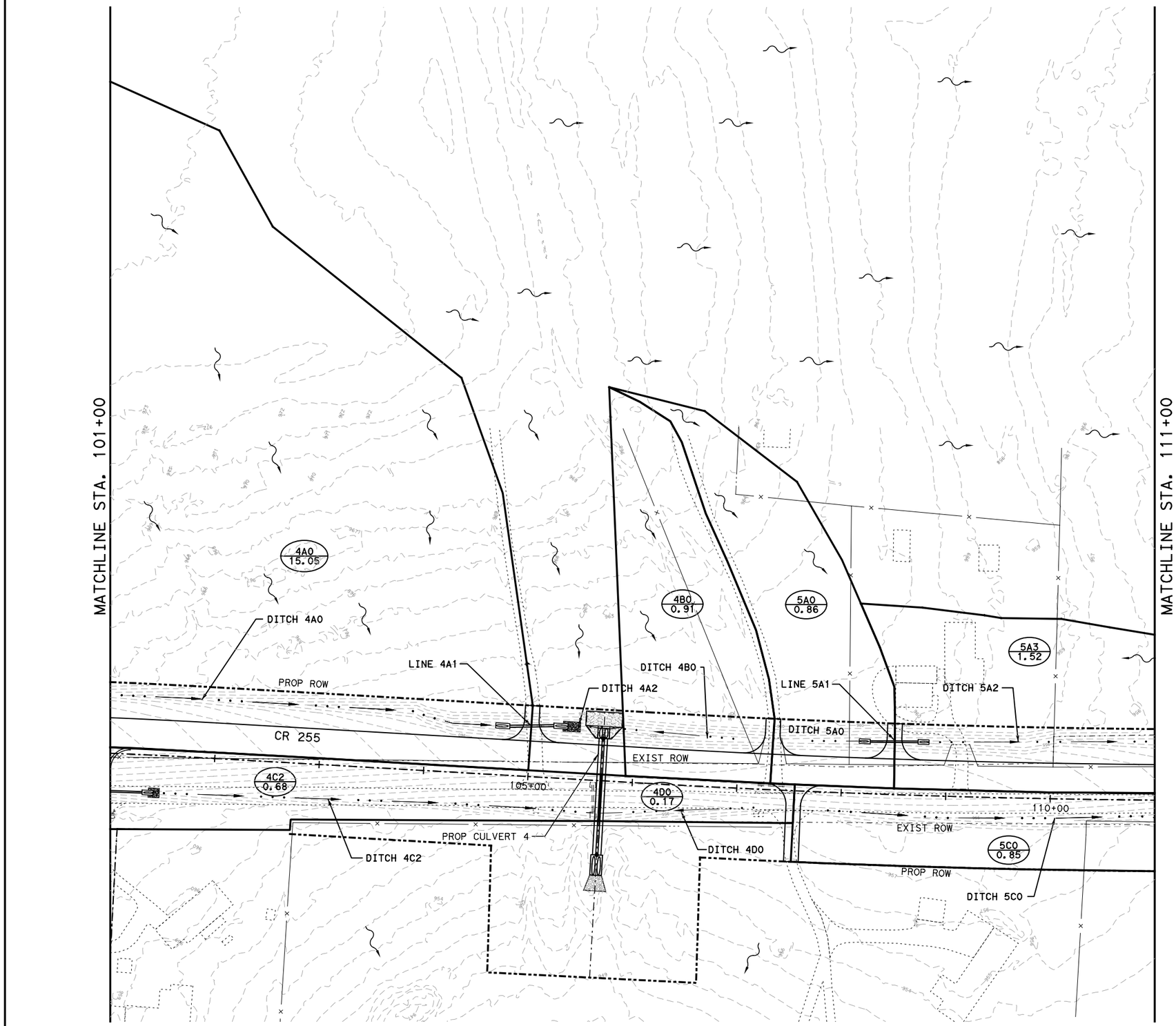

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
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LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
STA 101+00 TO 111+00

SHEET 10 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	162

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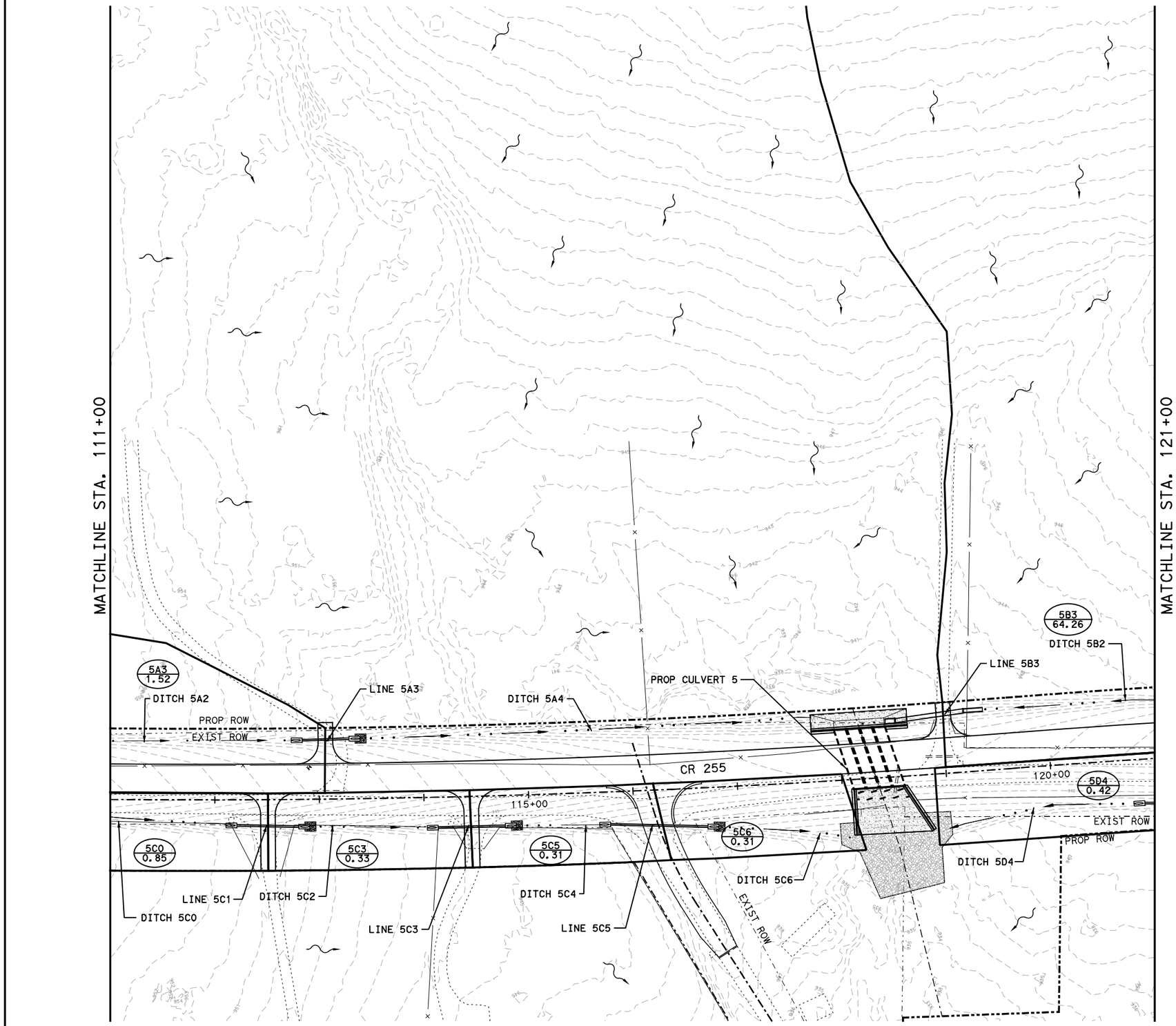

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 111+00 TO 121+00

SHEET 11 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	163

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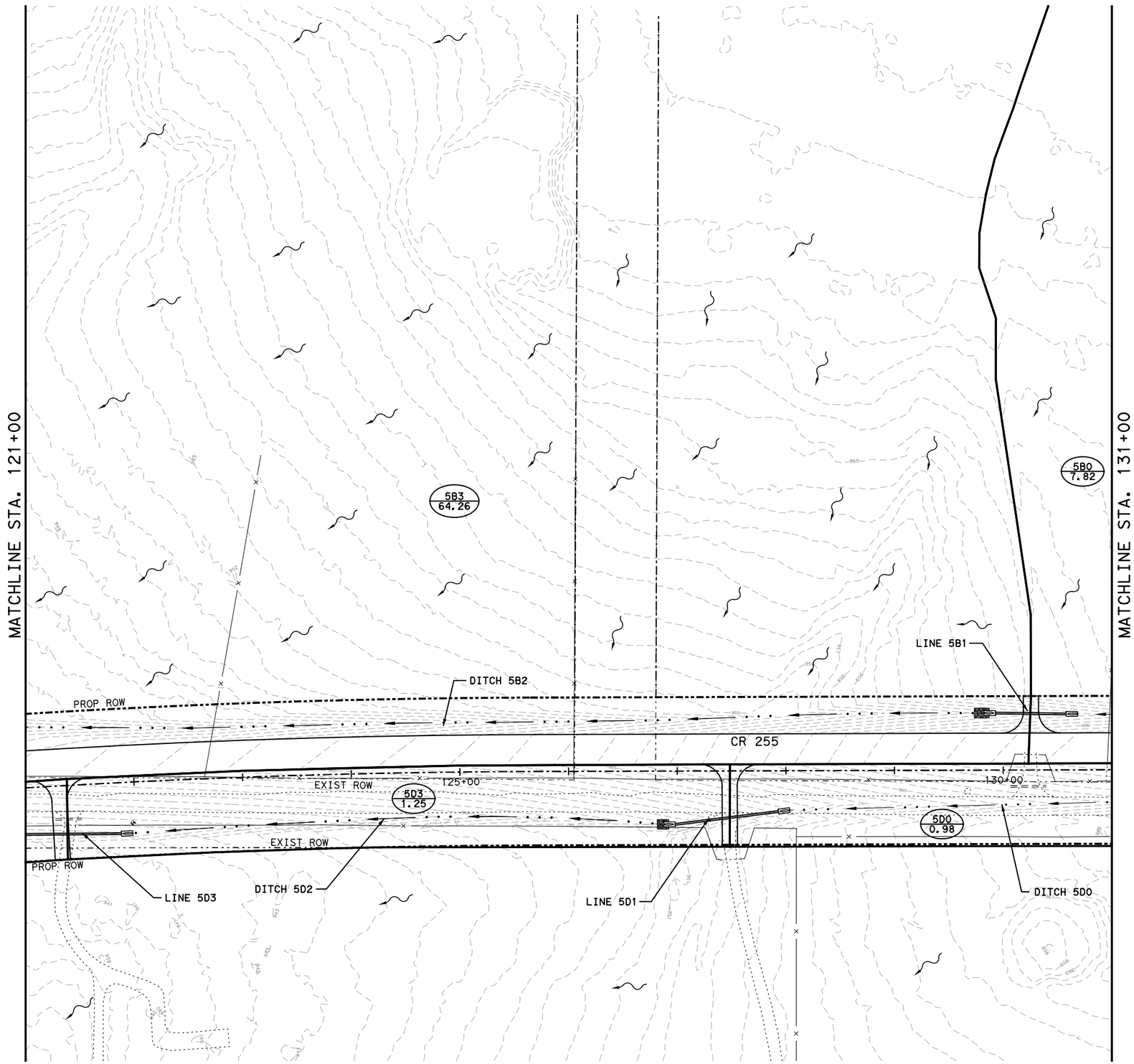

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
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LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 121+00 TO 131+00

SHEET 12 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	164

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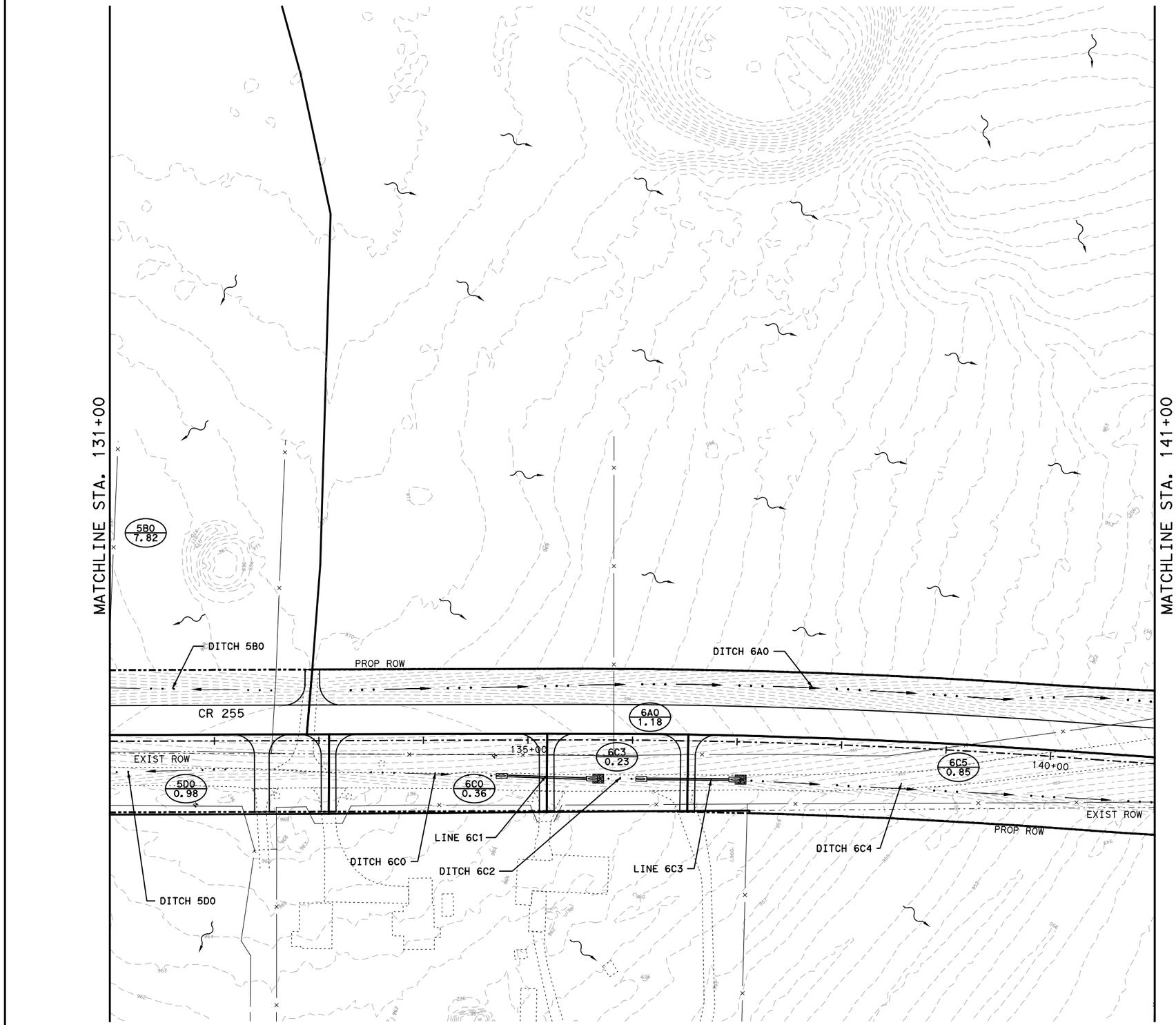

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 131+00 TO 141+00

SHEET 13 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	165

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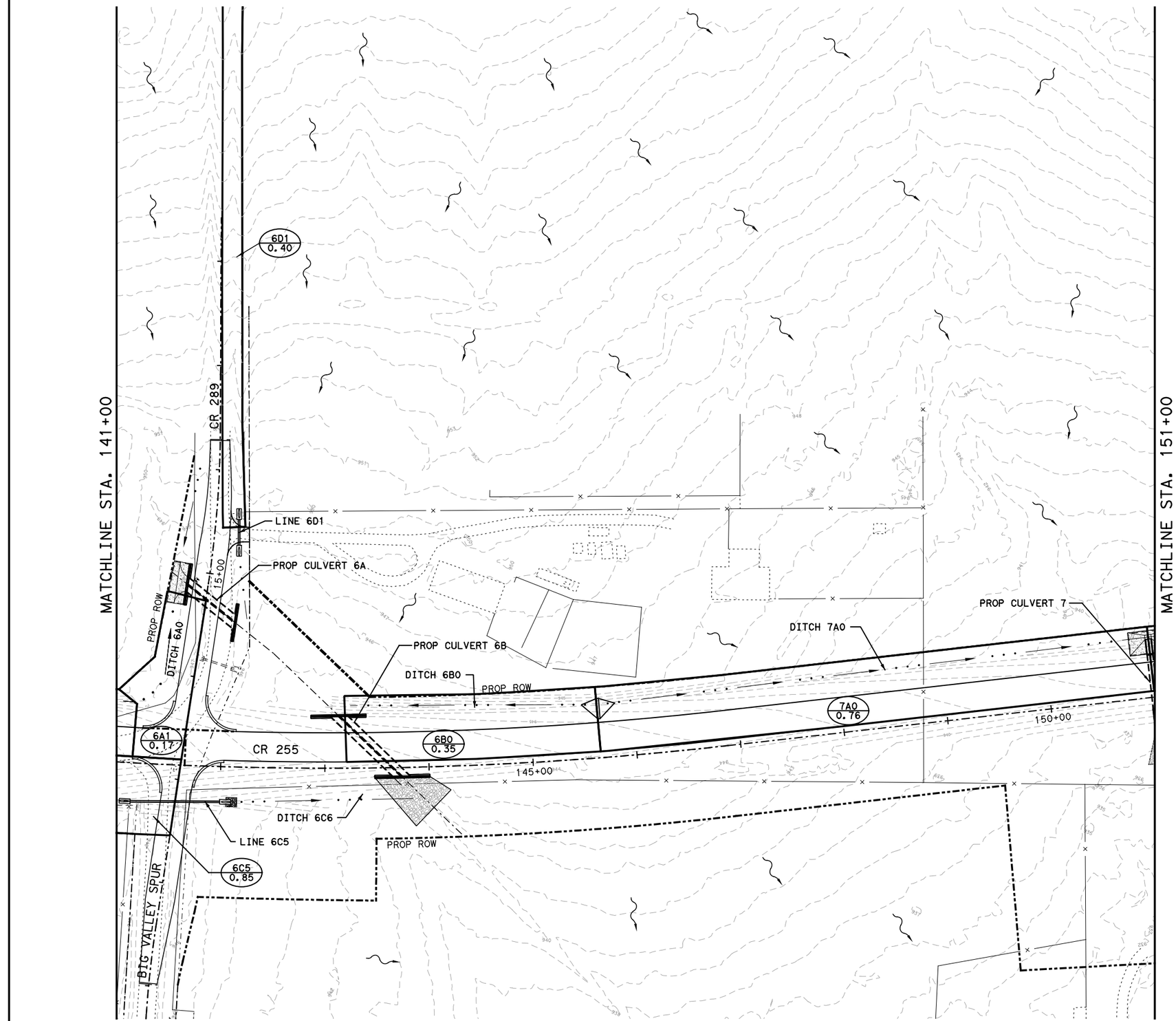

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
2. THESE DRAINAGE AREA MAPS REFLECT THE INTERNAL DRAINAGE BOUNDARIES NEEDED TO COMPUTE PEAK FLOWS USING THE RATIONAL METHOD FOR THE DESIGN OF DITCHES AND DRIVEWAY CULVERTS. REFER TO THE OFFSITE DRAINAGE AREA MAPS FOR THE FULL LIMITS OF IDENTIFIED DRAINAGE BOUNDARIES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 141+00 TO 151+00

SHEET 14 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	166

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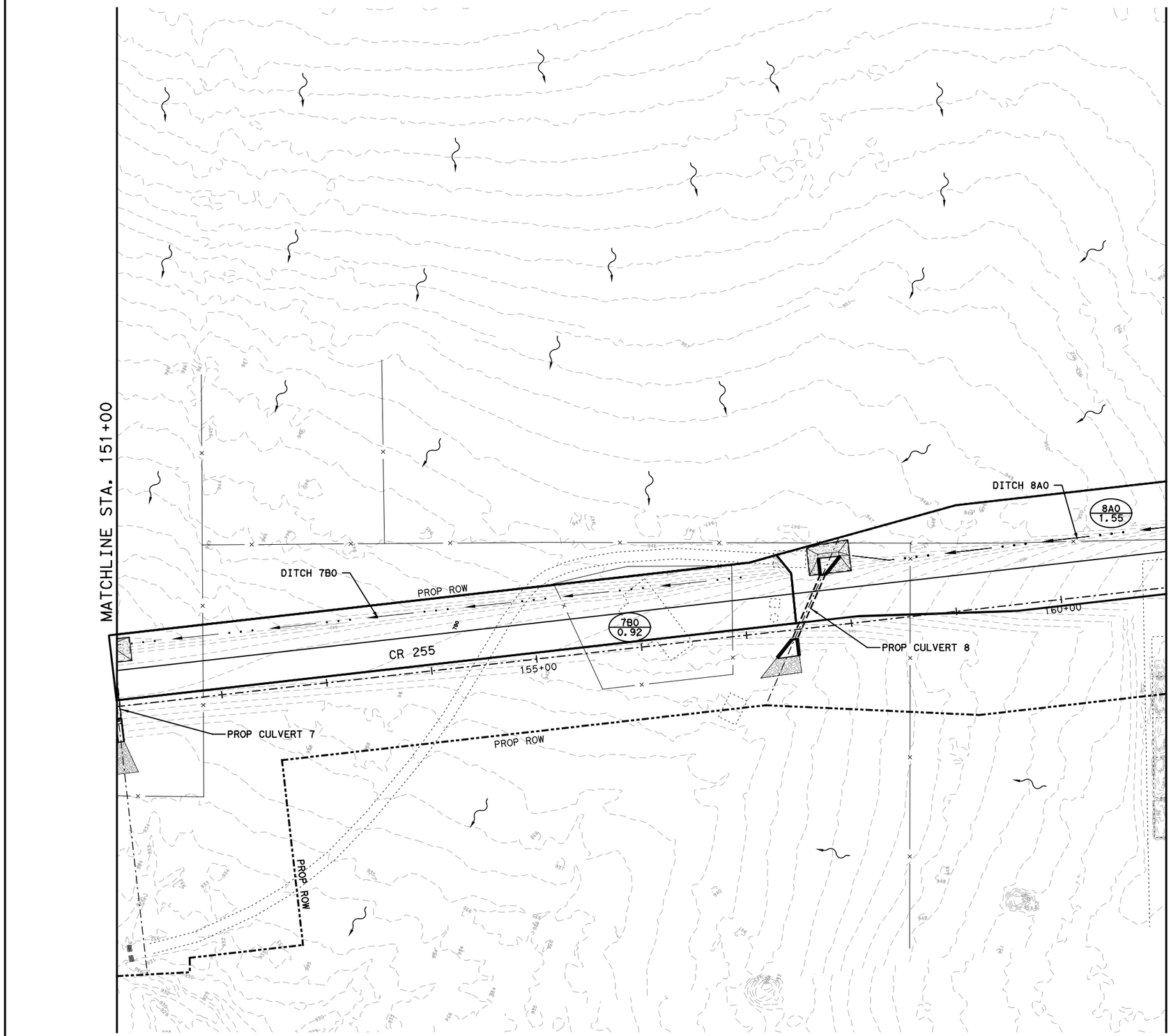

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 151+00 TO 161+00

SHEET 15 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	167

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SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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7/10/2024

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CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 161+00 TO END PROJECT

SHEET 16 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	168

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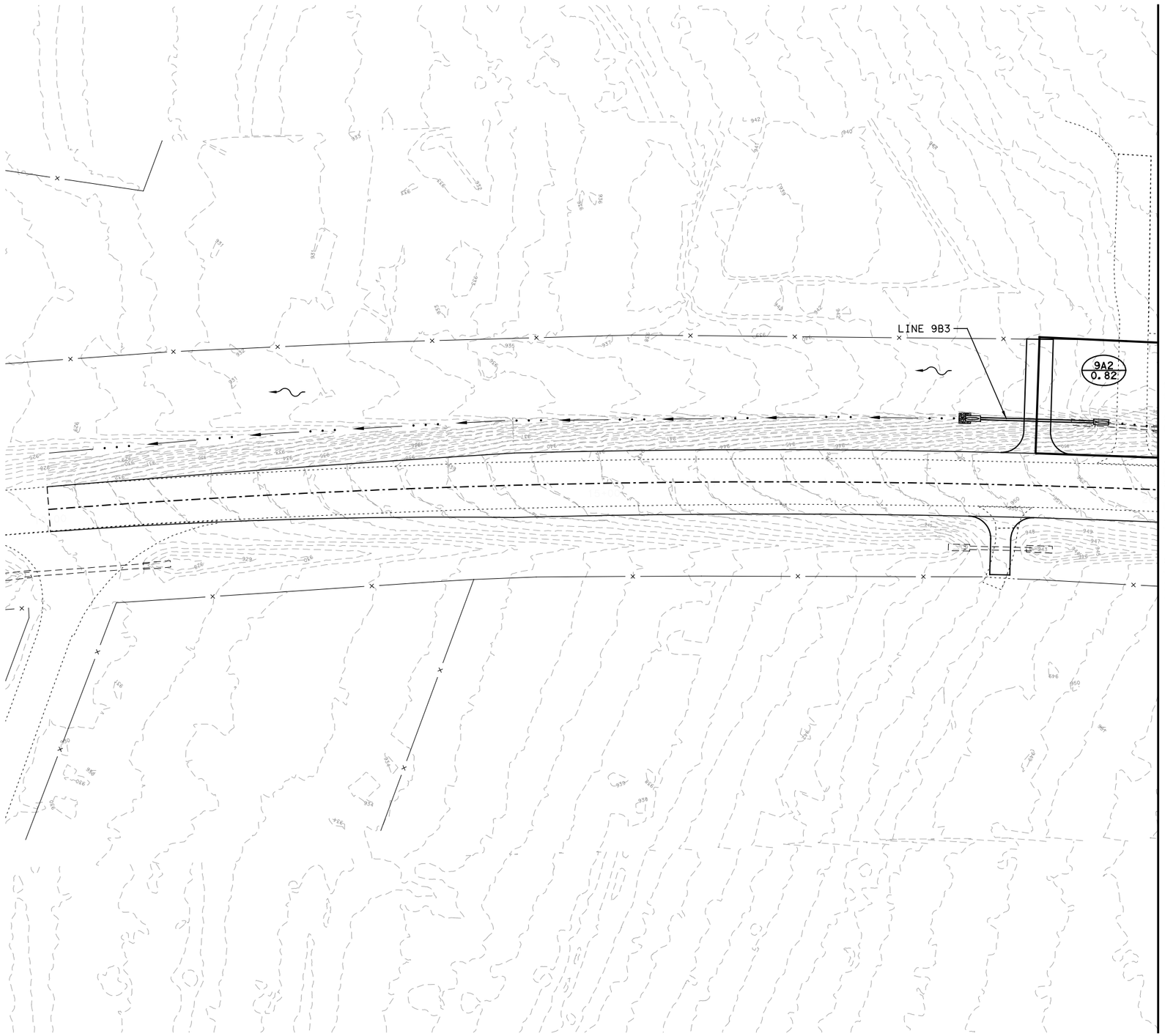

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
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Clay E Gann 7/10/2024

WILCO TEXAS — DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
RONALD REAGAN BLVD
BEGIN PROJECT TO STA 20+00

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	169

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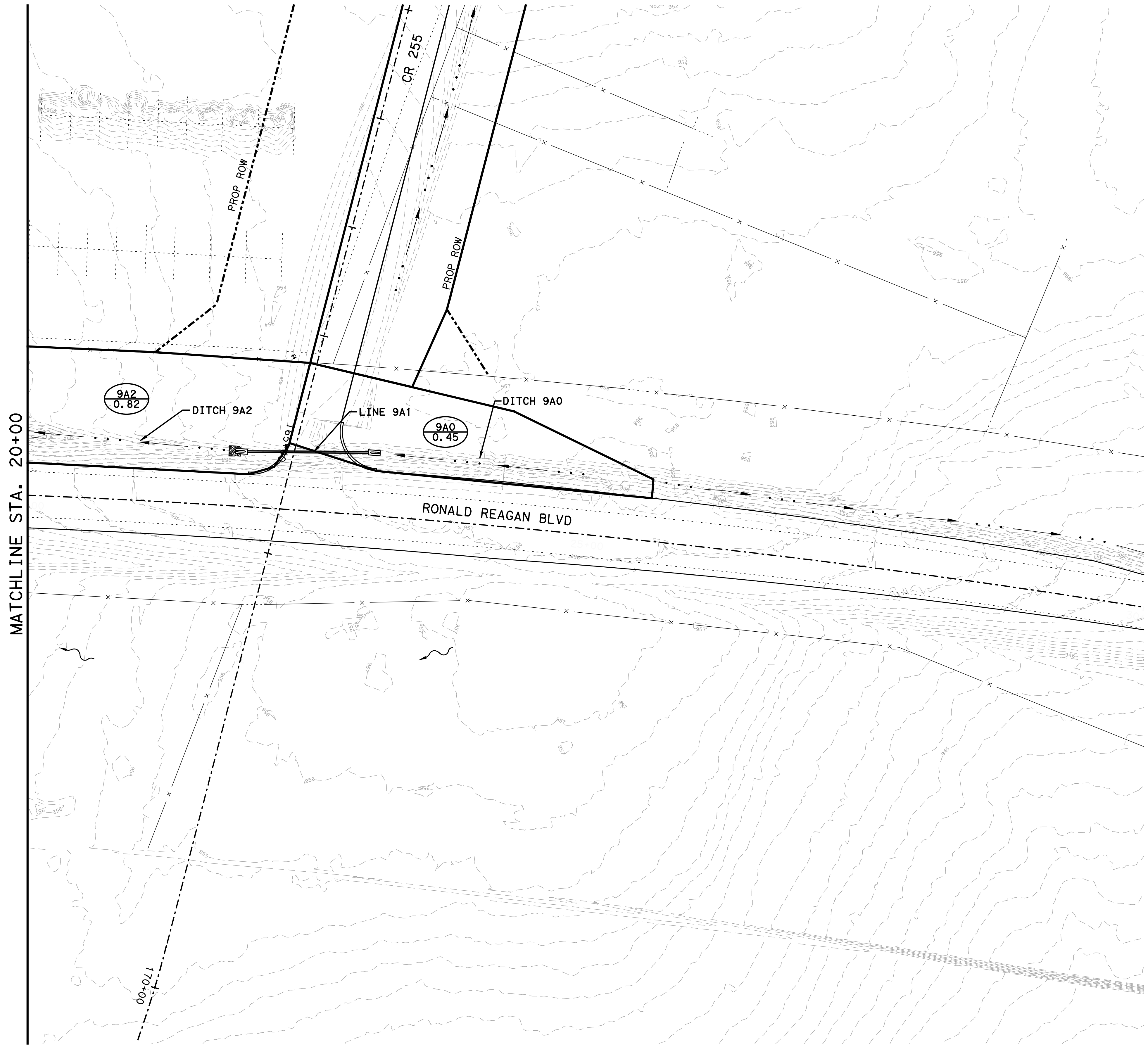

SCALE: 1" = 100'

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
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88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
RONALD REAGAN BLVD
STA 20+00 TO END PROJECT

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	170

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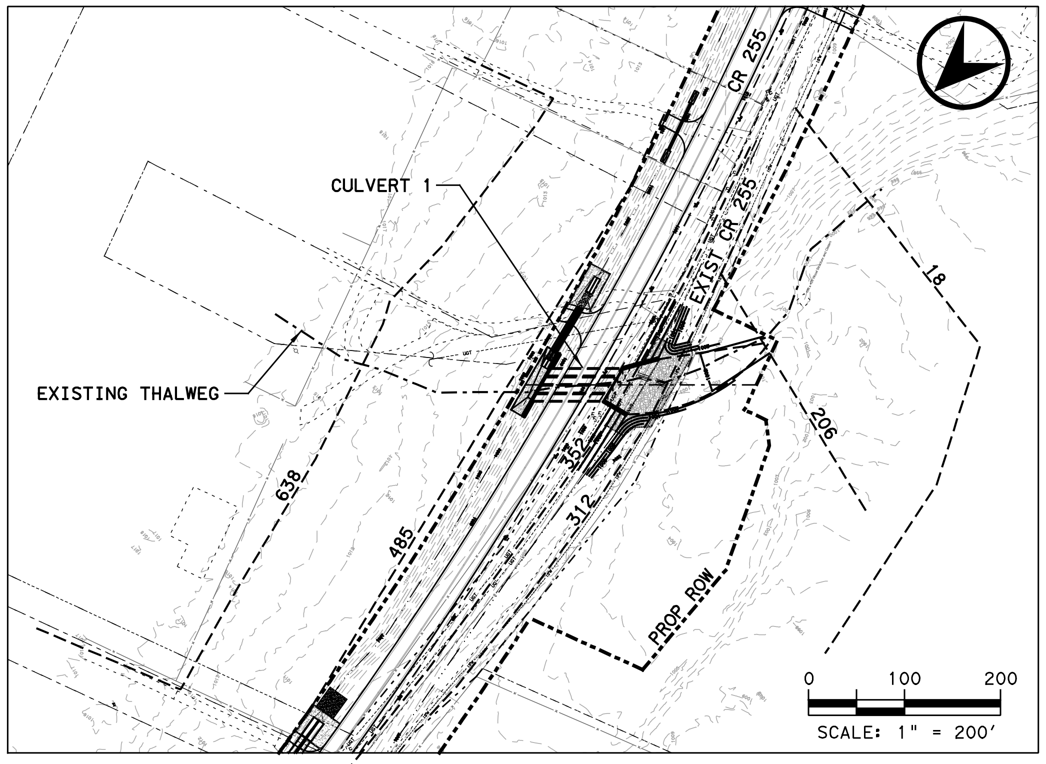

HEC RAS WORK MAP

Plan: PROP River 1 Existing CR1 RS: 412 Culv Group: Group #2 Profile: 4% AEP			
Q Culv Group (cfs)	659	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	9.11
Q Barrel (cfs)	164.75	Culv Vel DS (ft/s)	10.39
E.G. US. (ft)	1007.71	Culv Inv El Up (ft)	1003.19
W.S. US. (ft)	1010.64	Culv Inv El Dn (ft)	1002.8
E.G. DS (ft)	1005.56	Culv Frctn Ls (ft)	0.32
W.S. DS (ft)	1005.33	Culv Exit Loss (ft)	1.19
Delta EG (ft)	2.15	Culv Entr Loss (ft)	0.65
Delta WS (ft)	5.32	Q Weir (cfs)	
E.G. IC (ft)	1007.57	Weir Sta Lft (ft)	
E.G. OC (ft)	1007.71	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	1005.77	Weir Max Depth (ft)	
Culv WS Outlet (ft)	1005.06	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.18	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	2.58	Min El Weir Flow (ft)	1010.33

Plan: PROP River 1 Existing CR1 RS: 412 Culv Group: Group #2 Profile: 1% AEP			
Q Culv Group (cfs)	1030	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	9.2
Q Barrel (cfs)	257.5	Culv Vel DS (ft/s)	13.68
E.G. US. (ft)	1009.6	Culv Inv El Up (ft)	1003.19
W.S. US. (ft)	1010.88	Culv Inv El Dn (ft)	1002.8
E.G. DS (ft)	1006.23	Culv Frctn Ls (ft)	0.55
W.S. DS (ft)	1005.93	Culv Exit Loss (ft)	2.17
Delta EG (ft)	3.38	Culv Entr Loss (ft)	0.66
Delta WS (ft)	4.94	Q Weir (cfs)	
E.G. IC (ft)	1009.6	Weir Sta Lft (ft)	
E.G. OC (ft)	1009.28	Weir Sta Rgt (ft)	
Culvert Control	Inlet	Weir Submerg	
Culv WS Inlet (ft)	1007.19	Weir Max Depth (ft)	
Culv WS Outlet (ft)	1005.49	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	3.01	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	3.48	Min El Weir Flow (ft)	1010.33

NOTES:

1. CULVERTS WERE MODELED USING HEC-RAS VERSION 6.4.
2. HYDROLOGY FOR ALL BRIDGE-CLASS CROSSINGS WERE COMPUTED BASED ON THE NRCS UH METHOD WITH RAINFALL DEPTHS GATHERED FROM THE NOAA PRECIPITATION FREQUENCY SERVER FOR ATLAS 14.
3. HEC-HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS.
4. REFER TO THE CR 255 DRAINAGE REPORT FOR SOILS INFORMATION.
5. A CURVE NUMBER ADJUSTMENT FACTOR OF -15 WAS APPLIED TO ALL COMPUTED CN VALUES EXCEPT FOR AREAS THAT REPRESENT IMPERVIOUS COVER.

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Existing CR1	638	4% AEP	EXIST	659	1014	1014.98		1015.07	0.030683	1.54	307.63	737.64	0.4
Existing CR1	638	4% AEP	PROP	659	1014	1014.99		1015.08	0.028355	1.5	315.43	739.49	0.39
Existing CR1	638	1% AEP	EXIST	1030	1014	1015.12		1015.25	0.028579	1.78	414.45	749.13	0.41
Existing CR1	638	1% AEP	PROP	1030	1014	1015.12		1015.25	0.028466	1.77	414.95	749.16	0.41
Existing CR1	485	4% AEP	EXIST	659	1009.47	1010.66	1010.66	1010.96	0.023651	4.46	159.82	319.78	0.95
Existing CR1	485	4% AEP	PROP	659	1009.47	1010.64	1010.64	1010.96	0.025426	4.58	154.84	315.32	0.98
Existing CR1	485	1% AEP	EXIST	1030	1009.47	1010.88	1010.88	1011.25	0.023777	5.08	235.58	372.59	0.95
Existing CR1	485	1% AEP	PROP	1030	1009.47	1010.88	1010.88	1011.25	0.023833	5.09	235.52	375.66	0.95
Existing CR1	352	4% AEP	EXIST	659	1003.56	1008.63	1006.06	1008.64	0.000088	0.84	1124.77	591.47	0.08
Existing CR1	352	4% AEP	PROP	659	1002.87	1005.33		1005.56	0.003838	3.85	173.07	95.55	0.46
Existing CR1	352	1% AEP	EXIST	1030	1003.56	1008.93	1006.33	1008.94	0.000142	1.12	1306.31	619.4	0.1
Existing CR1	352	1% AEP	PROP	1030	1002.87	1005.93		1006.23	0.003751	4.47	256.27	157	0.47
Existing CR1	330 CULVERT 1			Culvert									
Existing CR1	312	4% AEP	EXIST	659	1003.53	1006.16	1006.06	1006.42	0.011272	5.14	179.29	245.82	0.74
Existing CR1	312	4% AEP	PROP	659	1002.59	1005.24		1005.4	0.002329	3.2	213.16	133.07	0.36
Existing CR1	312	1% AEP	EXIST	1030	1003.53	1006.63	1006.38	1006.82	0.007136	4.9	332.92	386.36	0.61
Existing CR1	312	1% AEP	PROP	1030	1002.59	1005.86		1006.06	0.002413	3.74	314.61	218.89	0.38
Existing CR1	206	4% AEP	EXIST	1140	1001.87	1004.3		1004.64	0.021648	3.24	296.97	204.96	0.43
Existing CR1	206	4% AEP	PROP	1140	1001.87	1004.3		1004.64	0.021648	3.24	296.97	204.96	0.43
Existing CR1	206	1% AEP	EXIST	1800	1001.87	1004.72		1005.24	0.023716	3.9	389.22	225.13	0.46
Existing CR1	206	1% AEP	PROP	1800	1001.87	1004.72		1005.24	0.023716	3.9	389.22	225.13	0.46
Existing CR1	18	4% AEP	EXIST	1140	999.2	1001.71	1001.39	1001.94	0.01002	4.72	309.25	261.54	0.69
Existing CR1	18	4% AEP	PROP	1140	999.2	1001.71	1001.39	1001.94	0.01002	4.72	309.25	261.54	0.69
Existing CR1	18	1% AEP	EXIST	1800	999.2	1002.12	1001.69	1002.42	0.01	5.4	421.01	281.78	0.72
Existing CR1	18	1% AEP	PROP	1800	999.2	1002.12	1001.69	1002.42	0.01	5.4	421.01	281.78	0.72

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7/10/2024

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CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
HYDRAULIC DATA SHEET
BRIDGE-CLASS CULVERT 1
STA 44+85

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 171

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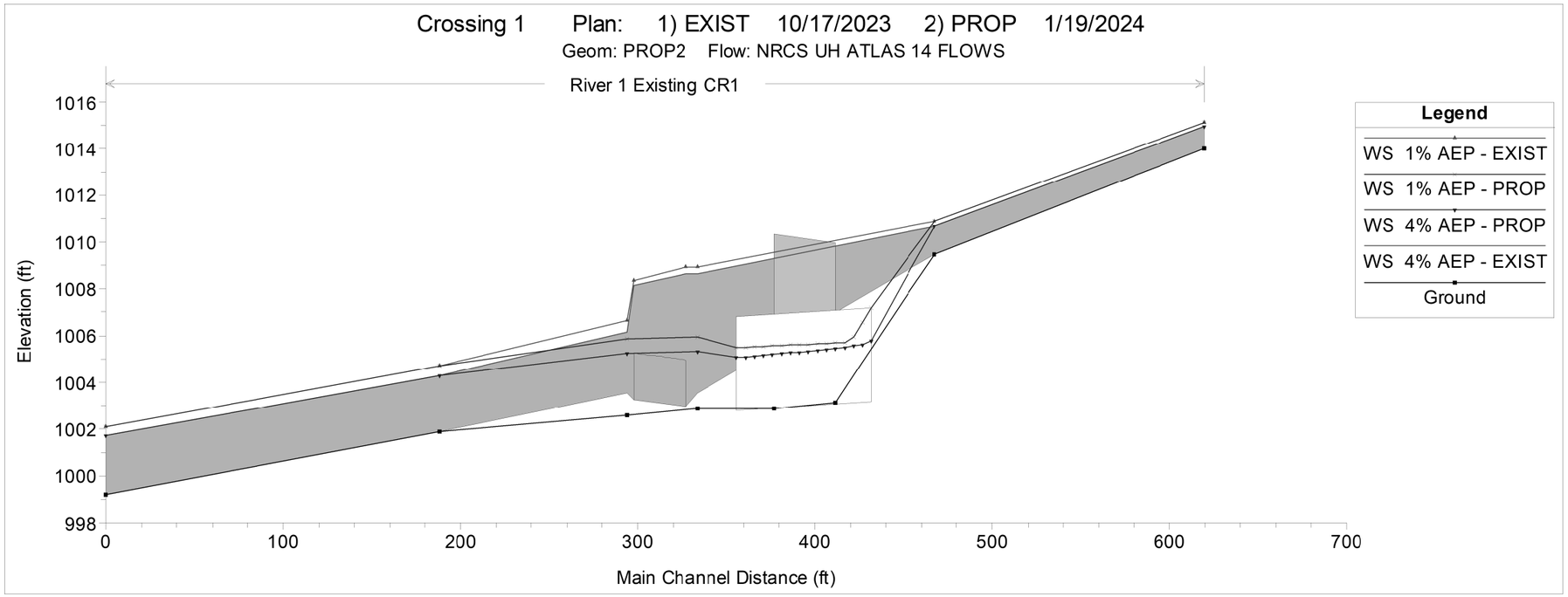

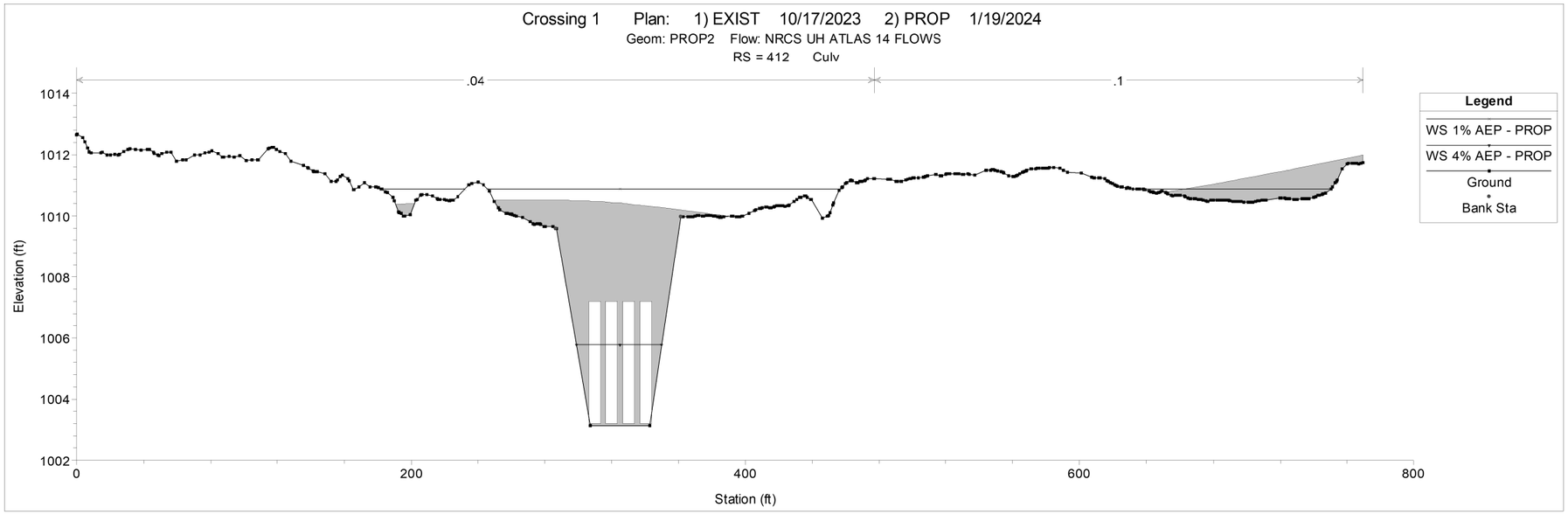

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CR 255

HYDRAULIC DATA SHEET

BRIDGE-CLASS CULVERT 1
STA 44+85

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	172

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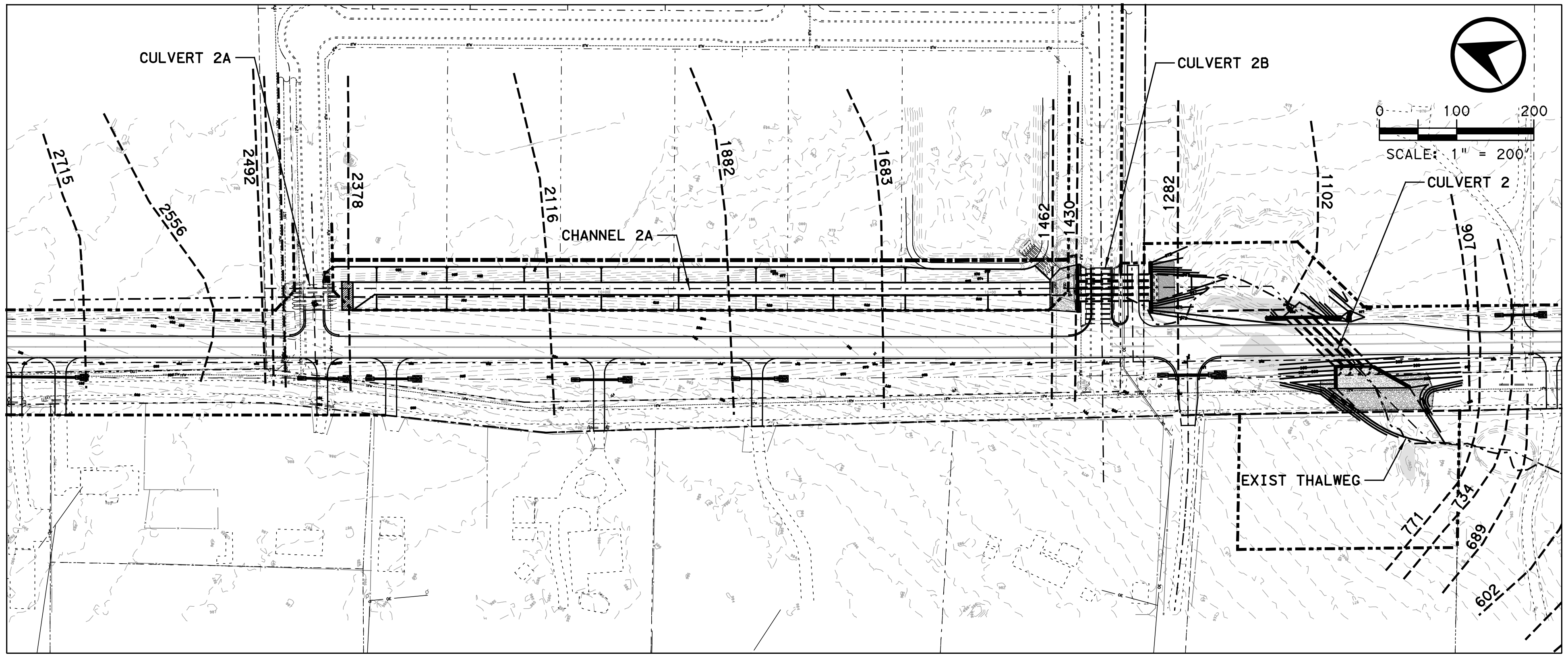

Plan: PROP River 1 Reach 1 RS: 1015 Culv Group: Group #1 Profile: 4% AEP			
Q Culv Group (cfs)	669	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	8.76
Q Barrel (cfs)	167.25	Culv Vel DS (ft/s)	9.78
E.G. US. (ft)	968.56	Culv Inv El Up (ft)	964.38
W.S. US. (ft)	968.4	Culv Inv El Dn (ft)	963.99
E.G. DS (ft)	966.62	Culv Frctn Ls (ft)	0.34
W.S. DS (ft)	966.24	Culv Exit Loss (ft)	0.99
Delta EG (ft)	1.93	Culv Entr Loss (ft)	0.6
Delta WS (ft)	2.16	Q Weir (cfs)	
E.G. IC (ft)	968.52	Weir Sta Lft (ft)	
E.G. OC (ft)	968.56	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	966.77	Weir Max Depth (ft)	
Culv WS Outlet (ft)	966.13	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.1	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	2.39	Min El Weir Flow (ft)	970.41

Plan: PROP River 1 Reach 1 RS: 1015 Culv Group: Group #1 Profile: 1% AEP			
Q Culv Group (cfs)	1049	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	10.18
Q Barrel (cfs)	262.25	Culv Vel DS (ft/s)	11.15
E.G. US. (ft)	970.13	Culv Inv El Up (ft)	964.38
W.S. US. (ft)	969.99	Culv Inv El Dn (ft)	963.99
E.G. DS (ft)	967.19	Culv Frctn Ls (ft)	0.35
W.S. DS (ft)	966.64	Culv Exit Loss (ft)	1.67
Delta EG (ft)	2.93	Culv Entr Loss (ft)	0.92
Delta WS (ft)	3.35	Q Weir (cfs)	
E.G. IC (ft)	970.13	Weir Sta Lft (ft)	
E.G. OC (ft)	970.02	Weir Sta Rgt (ft)	
Culvert Control	Inlet	Weir Submerg	
Culv WS Inlet (ft)	967.6	Weir Max Depth (ft)	
Culv WS Outlet (ft)	966.93	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.88	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	3.22	Min El Weir Flow (ft)	970.41

HEC RAS WORK MAP

Reach	River Sta	Profile	Plan	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach 1	2715	4% AEP	EXIST	384	988.61	989.54	989.54	989.81	0.026863	5.14	106.37	205.45	1.03
Reach 1	2715	4% AEP	PROP	384	988.61	989.54	989.54	989.81	0.026863	5.14	106.37	205.45	1.03
Reach 1	2715	1% AEP	EXIST	603	988.61	989.75	989.75	990.07	0.02451	5.76	151.85	232.12	1.02
Reach 1	2715	1% AEP	PROP	603	988.61	989.75	989.75	990.07	0.02451	5.76	151.85	232.12	1.02
Reach 1	2556	4% AEP	EXIST	384	986.48	988.12		988.19	0.003478	2.66	193.41	206.13	0.41
Reach 1	2556	4% AEP	PROP	384	986.48	988.11		988.19	0.003512	2.67	193.13	211.16	0.41
Reach 1	2556	1% AEP	EXIST	603	986.48	988.42	987.83	988.52	0.003945	3.24	265.21	261.38	0.45
Reach 1	2556	1% AEP	PROP	603	986.48	988.41	987.83	988.51	0.003962	3.24	264.56	260.57	0.45
Reach 1	2492	4% AEP	EXIST	384	986.48	987.38	987.38	987.67	0.025268	4.95	97.05	173.16	1
Reach 1	2492	4% AEP	PROP	384	986.48	987.38	987.38	987.67	0.024485	4.9	98.45	181.43	0.98
Reach 1	2492	1% AEP	EXIST	603	986.48	987.6	987.6	987.96	0.02395	5.71	138.51	199.85	1.01
Reach 1	2492	1% AEP	PROP	603	986.48	987.6	987.6	987.95	0.023914	5.69	141.32	220.99	1.01
Reach 1	2480	4% AEP	EXIST	384	982.46	985.99		986.19	0.002627	3.55	108.02	41.2	0.39
Reach 1	2480	4% AEP	PROP	384	982.46	985.99		986.19	0.002628	3.56	108.01	41.2	0.39
Reach 1	2480	1% AEP	EXIST	603	982.46	987.43		987.56	0.001334	3.04	246.3	189.11	0.29
Reach 1	2480	1% AEP	PROP	603	982.46	987.43		987.56	0.001337	3.05	245.98	188.99	0.29
Reach 1	2464	4% AEP	EXIST	384	982.38	985.96	984.41	986.15	0.002501	3.49	109.9	41.45	0.38
Reach 1	2464	4% AEP	PROP	384	982.38	985.96	984.4	986.15	0.002502	3.49	109.89	41.45	0.38
Reach 1	2464	1% AEP	EXIST	603	982.38	987.35	985.03	987.53	0.001732	3.43	182.75	114.35	0.33
Reach 1	2464	1% AEP	PROP	603	982.38	987.36	985.02	987.53	0.001664	3.36	195.69	114.89	0.32
Reach 1	2425 DMCulvert1			Culvert									
Reach 1	2378	4% AEP	EXIST	384	982.57	984.21	983.93	984.6	0.011563	5.04	76.18	53.27	0.74
Reach 1	2378	4% AEP	PROP	384	981.44	983.89	983.43	984.35	0.00951	5.45	70.41	37.43	0.7
Reach 1	2378	1% AEP	EXIST	603	982.57	984.81		985.28	0.009339	5.51	109.53	56.98	0.7
Reach 1	2378	1% AEP	PROP	603	981.44	984.53	984.03	985.14	0.009893	6.31	95.54	41.93	0.74
Reach 1	2116	4% AEP	EXIST	384	978.34	980.59	980.39	981.23	0.01455	6.4	59.99	34.52	0.86
Reach 1	2116	4% AEP	PROP	384	978	980	980	980.81	0.020721	7.24	53.04	33.04	1.01
Reach 1	2116	1% AEP	EXIST	603	978.34	981.07	980.99	982.02	0.017372	7.83	77.04	37.35	0.96
Reach 1	2116	1% AEP	PROP	603	978	980.61	980.61	981.63	0.019283	8.09	74.54	37.15	1.01
Reach 1	1882	4% AEP	EXIST	384	975.14	976.4	976.4	976.89	0.024086	5.62	68.38	70.91	1.01
Reach 1	1882	4% AEP	PROP	384	974.9	977.58	976.9	977.97	0.007086	4.99	76.99	37.36	0.61
Reach 1	1882	1% AEP	EXIST	603	975.14	976.74	976.74	977.39	0.021958	6.46	93.4	73.23	1.01
Reach 1	1882	1% AEP	PROP	603	974.9	978.28	977.52	978.79	0.007389	5.78	104.39	41.83	0.64
Reach 1	1683	4% AEP	EXIST	384	972.81	975.06		975.14	0.001417	2.18	176.53	90.45	0.27
Reach 1	1683	4% AEP	PROP	384	972.88	974.88	974.88	975.69	0.020712	7.22	53.15	33.22	1.01
Reach 1	1683	1% AEP	EXIST	603	972.81	975.64		975.74	0.00154	2.63	229.19	93.8	0.3
Reach 1	1683	1% AEP	PROP	603	972.88	975.49	975.49	976.5	0.019281	8.08	74.62	37.25	1.01

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG
CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
HYDRAULIC DATA SHEET
BRIDGE-CLASS CULVERTS 2 & 2B
STA 86+10

SHEET 1 OF 3

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	173

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Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	1462	4% AEP	EXIST	656	971.01	974.86		974.92	0.000824	2.13	347.15	194.49	0.22
Reach 1	1462	4% AEP	PROP	656	971.8	974.01	974.01	974.82	0.001767	7.26	91.87	65.71	0.99
Reach 1	1462	1% AEP	EXIST	1031	971.01	975.37		975.46	0.001139	2.8	457.76	229.81	0.27
Reach 1	1462	1% AEP	PROP	1031	971.8	974.62	974.62	975.66	0.001574	8.22	136.14	88.41	0.98
Reach 1	1430	4% AEP	PROP	656	966.99	970.77	969.57	971.21	0.000442	5.31	123.48	40.65	0.54
Reach 1	1430	1% AEP	PROP	1031	966.99	973	970.39	973.33	0.000183	4.62	227.96	56.76	0.37
Reach 1	1422	4% AEP	EXIST	656	970.78	974.85	972.1	974.89	0.000337	1.65	479.17	273.67	0.15
Reach 1	1422	1% AEP	EXIST	1031	970.78	975.37	972.56	975.42	0.000453	2.09	640.95	326.17	0.18
Reach 1	1399 DMCulvert2			Culvert									
Reach 1	1376	4% AEP	EXIST	656	970.28	974.06		974.09	0.000541	1.83	478.54	277.34	0.18
Reach 1	1376	1% AEP	EXIST	1031	970.28	974.35		974.41	0.000865	2.45	560.7	291.89	0.24
Reach 1	1370	4% AEP	EXIST	656	970.16	974.06	972.19	974.09	0.000435	1.66	522.29	284.73	0.16
Reach 1	1370	1% AEP	EXIST	1031	970.16	974.35	972.55	974.4	0.000707	2.24	607.26	299.15	0.21
Reach 1	1355 Driveway			Culvert									
Reach 1	1339	4% AEP	EXIST	656	969.47	971.85	971.85	972.35	0.018385	6.05	123.96	134.91	0.93
Reach 1	1339	1% AEP	EXIST	1031	969.47	972.27	972.27	972.81	0.014411	6.44	193.26	179.3	0.86
Reach 1	1282	4% AEP	EXIST	669	968.43	970.59	970.59	971.21	0.021702	6.29	106.65	89.56	1
Reach 1	1282	4% AEP	PROP	669	966.34	969.27	969.27	970.38	0.018352	8.46	79.35	37.72	1
Reach 1	1282	1% AEP	EXIST	1049	968.43	971.15	971.15	971.78	0.014267	6.5	176.76	159.96	0.86
Reach 1	1282	1% AEP	PROP	1049	966.34	970.16	970.16	971.46	0.015123	9.22	117.85	50.31	0.95
Reach 1	1102	4% AEP	PROP	669	964.23	968.4	966.49	968.55	0.001818	3.19	216.99	84.99	0.33
Reach 1	1102	1% AEP	PROP	1049	964.23	969.99	967.14	970.12	0.001005	3.02	367.5	103.71	0.26
Reach 1	1101	4% AEP	EXIST	669	964.23	969.3	966.61	969.41	0.001049	2.65	252.92	170.01	0.26
Reach 1	1101	1% AEP	EXIST	1049	964.23	969.72	967.31	969.93	0.001812	3.67	285.57	187.66	0.34
Reach 1	963	4% AEP	EXIST	669	966.98	969.15	968.3	969.21	0.001729	2.33	355.7	276.98	0.3
Reach 1	963	1% AEP	EXIST	1049	966.98	969.54	968.56	969.63	0.002019	2.86	472.28	323.63	0.34
Reach 1	926 XCulvert7			Culvert									
Reach 1	907	4% AEP	EXIST	669	964.52	967.05	966.99	967.43	0.019931	4.99	134.64	149.08	0.91
Reach 1	907	4% AEP	PROP	669	963.56	966.24		966.62	0.006338	5.07	145.53	118.89	0.59
Reach 1	907	1% AEP	EXIST	1049	964.52	967.32	967.32	967.86	0.021219	6.1	178.8	179.55	0.98
Reach 1	907	1% AEP	PROP	1049	963.56	966.64		967.19	0.007835	6.27	194.16	129.6	0.68
Reach 1	771	4% AEP	EXIST	669	963.72	965.26		965.51	0.010137	4.67	170.22	163.95	0.7
Reach 1	771	4% AEP	PROP	669	963.72	965.26		965.51	0.010137	4.67	170.22	163.95	0.7
Reach 1	771	1% AEP	EXIST	1049	963.72	965.64		965.96	0.009328	5.26	234.28	173.71	0.7
Reach 1	771	1% AEP	PROP	1049	963.72	965.64		965.96	0.009333	5.26	234.23	173.71	0.7
Reach 1	734	4% AEP	EXIST	669	959.79	964.99		965.2	0.00682	4.27	192.64	170.9	0.58
Reach 1	734	4% AEP	PROP	669	959.79	964.99		965.2	0.00682	4.27	192.64	170.9	0.58
Reach 1	734	1% AEP	EXIST	1049	959.79	965.4		965.66	0.006402	4.79	266.65	186.29	0.58
Reach 1	734	1% AEP	PROP	1049	959.79	965.4		965.66	0.006411	4.79	266.54	186.28	0.58
Reach 1	689	4% AEP	EXIST	669	962.78	964.18	964.18	964.66	0.023609	5.66	120.13	153.98	1
Reach 1	689	4% AEP	PROP	669	962.78	964.18	964.18	964.66	0.023618	5.66	120.12	153.97	1
Reach 1	689	1% AEP	EXIST	1049	962.78	964.53	964.53	965.15	0.022013	6.23	166.3	176.63	1
Reach 1	689	1% AEP	PROP	1049	962.78	964.53	964.53	965.15	0.021935	6.22	166.51	176.73	1
Reach 1	602	4% AEP	EXIST	669	960.66	962.72		963.03	0.012196	5.61	160.17	169.65	0.78
Reach 1	602	4% AEP	PROP	669	960.66	962.72		963.03	0.012196	5.61	160.17	169.65	0.78
Reach 1	602	1% AEP	EXIST	1049	960.66	963.13		963.48	0.010085	5.93	234.98	196.59	0.74
Reach 1	602	1% AEP	PROP	1049	960.66	963.13		963.48	0.010085	5.93	234.98	196.59	0.74
Reach 1	540	4% AEP	EXIST	669	959.16	962.39		962.56	0.004412	4.15	215.22	178.8	0.49
Reach 1	540	4% AEP	PROP	669	959.16	962.39		962.56	0.004412	4.15	215.22	178.8	0.49
Reach 1	540	1% AEP	EXIST	1049	959.16	962.81		963.03	0.004592	4.76	302.29	230.25	0.51
Reach 1	540	1% AEP	PROP	1049	959.16	962.81		963.03	0.004592	4.76	302.29	230.25	0.51
Reach 1	496	4% AEP	EXIST	669	957.89	961.76	961.76	962.23	0.011213	6.84	142.86	151.43	0.78
Reach 1	496	4% AEP	PROP	669	957.89	961.76	961.76	962.23	0.011213	6.84	142.86	151.43	0.78
Reach 1	496	1% AEP	EXIST	1049	957.89	962.1	962.1	962.68	0.012281	7.83	197.63	168.92	0.83
Reach 1	496	1% AEP	PROP	1049	957.89	962.1	962.1	962.68	0.012281	7.83	197.63	168.92	0.83
Reach 1	450	4% AEP	EXIST	669	957.7	960.91	960.91	961.3	0.011101	6.38	163.58	195.68	0.77
Reach 1	450	4% AEP	PROP	669	957.7	960.91	960.91	961.3	0.011101	6.38	163.58	195.68	0.77
Reach 1	450	1% AEP	EXIST	1049	957.7	961.19	961.19	961.67	0.012381	7.31	220	212.46	0.83
Reach 1	450	1% AEP	PROP	1049	957.7	961.19	961.19	961.67	0.012381	7.31	220	212.46	0.83
Reach 1	301	4% AEP	EXIST	669	955.43	957.06	957.06	957.46	0.019496	6.18	138.6	163.3	0.95
Reach 1	301	4% AEP	PROP	669	955.43	957.06	957.06	957.46	0.019496	6.18	138.6	163.3	0.95
Reach 1	301	1% AEP	EXIST	1049	955.43	957.34	957.34	957.86	0.019524	6.82	186.22	169.17	0.98
Reach 1	301	1% AEP	PROP	1049	955.43	957.34	957.34	957.86	0.019524	6.82	186.22	169.17	0.98
Reach 1	174	4% AEP	EXIST	669	954.16	954.72	954.65	955.05	0.015765	2.4	152.65	187.73	0.7
Reach 1	174	4% AEP	PROP	669	954.16	954.72	954.65	955.05	0.015765	2.4	152.65	187.73	0.7
Reach 1	174	1% AEP	EXIST	1049	954.16	955.07	954.96	955.44	0.01438	3.56	221.94	215.07	0.74
Reach 1	174	1% AEP	PROP	1049	954.16	955.07	954.96	955.44	0.01438	3.56	221.94	215.07	0.74
Reach 1	18	4% AEP	EXIST	669	950.24	952.25	952.1	952.65	0.015012	5.59	136.43	137	0.84
Reach 1	18	4% AEP	PROP	669	950.24	952.25	952.1	952.65	0.015012	5.59	136.43	137	0.84
Reach 1	18	1% AEP	EXIST	1049	950.24	952.62	952.52	953.14	0.015003	6.54	189.96	165.23	0.88
Reach 1	18	1% AEP	PROP	1049	950.24	952.62	952.52	953.14	0.015003	6.54	189.96	165.23	0.88

Plan: PROP	River 1	Reach 1	RS: 1399	Culv Group: Group #1	Profile: 4% AEP
Q Culv Group (cfs)	656	Culv Full Len (ft)			
# Barrels	4	Culv Vel US (ft/s)	9.1		
Q Barrel (cfs)	164	Culv Vel DS (ft/s)	10.42		
E.G. US. (ft)	971.21	Culv Inv El Up (ft)	966.99		
W.S. US. (ft)	970.77	Culv Inv El Dn (ft)	966.51		
E.G. DS (ft)	970.38	Culv Frctn Ls (ft)	0.41		
W.S. DS (ft)	969.27	Culv Exit Loss (ft)	0.07		
Delta EG (ft)	0.83	Culv Entr Loss (ft)	0.36		
Delta WS (ft)	1.5	Q Weir (cfs)			
E.G. IC (ft)	971.21	Weir Sta Lft (ft)			
E.G. OC (ft)	971.11	Weir Sta Rgt (ft)			
Culvert Control	Inlet	Weir Submerg			
Culv WS Inlet (ft)	969.56	Weir Max Depth (ft)			
Culv WS Outlet (ft)	968.76	Weir Avg Depth (ft)			
Culv Nml Depth (ft)	2.19	Weir Flow Area (sq ft)			
Culv Crt Depth (ft)	2.57	Min El Weir Flow (ft)	975.01		

Plan: PROP	River 1	Reach 1	RS: 1399	Culv Group: Group #1	Profile: 1% AEP
Q Culv Group (cfs)	1031	Culv Full Len (ft)			
# Barrels	4	Culv Vel US (ft/s)	9.21		
Q Barrel (cfs)	257.75	Culv Vel DS (ft/s)	14.29		
E.G. US. (ft)	973.33	Culv Inv El Up (ft)	966.99		
W.S. US. (ft)	973	Culv Inv El Dn (ft)	966.51		
E.G. DS (ft)	971.46	Culv Frctn Ls (ft)	0.8		
W.S. DS (ft)	970.16	Culv Exit Loss (ft)	0.8		
Delta EG (ft)	1.87	Culv Entr Loss (ft)	0.26		
Delta WS (ft)	2.84	Q Weir (cfs)			
E.G. IC (ft)	973.33	Weir Sta Lft (ft)			
E.G. OC (ft)	972.56	Weir Sta Rgt (ft)			
Culvert Control	Inlet	Weir Submerg			
Culv WS Inlet (ft)	970.99	Weir Max Depth (ft)			
Culv WS Outlet (ft)	969.09	Weir Avg Depth (ft)			
Culv Nml Depth (ft)	3.03	Weir Flow Area (sq ft)			
Culv Crt Depth (ft)	3.48	Min El Weir Flow (ft)	975.01		

NO.	REVISION	BY	DATE

STATE OF TEXAS
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CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

HYDRAULIC DATA SHEET

BRIDGE-CLASS CULVERTS 2 & 2B
STA 86+10

SHEET 2 OF 3

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	174

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DATE: 7/10/2024 4:27:20 PM
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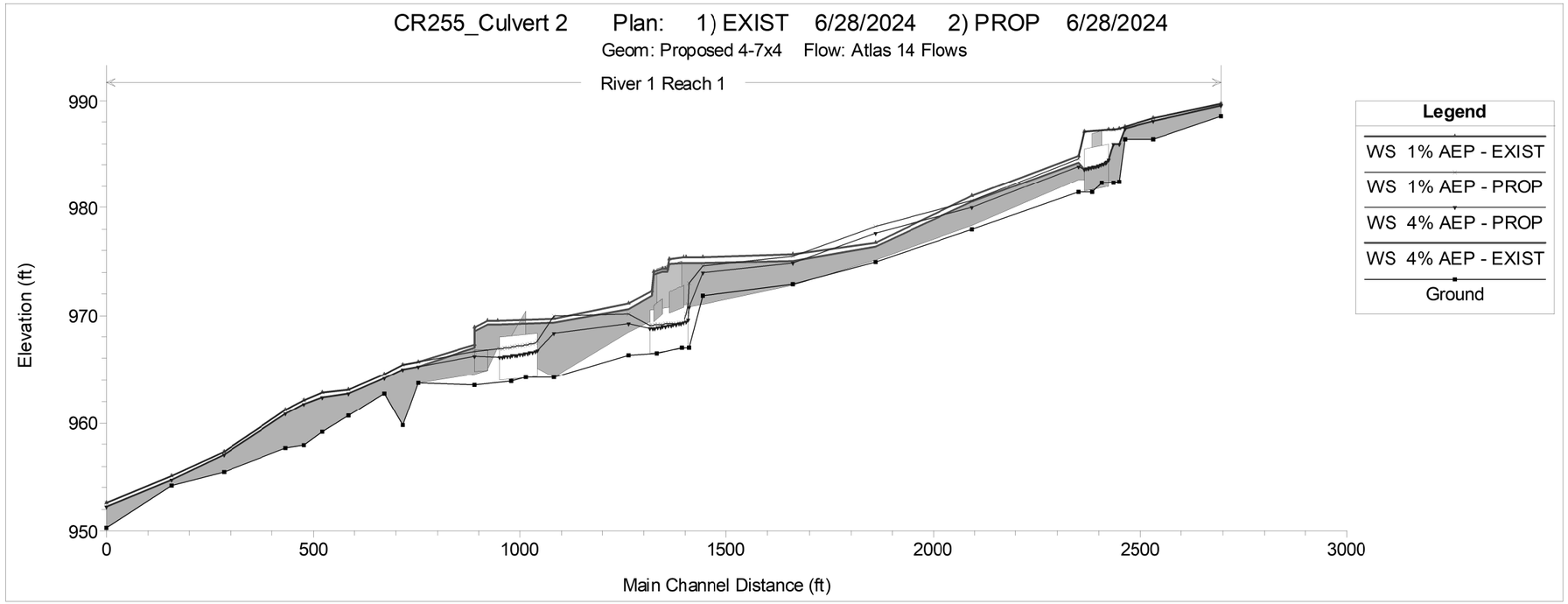

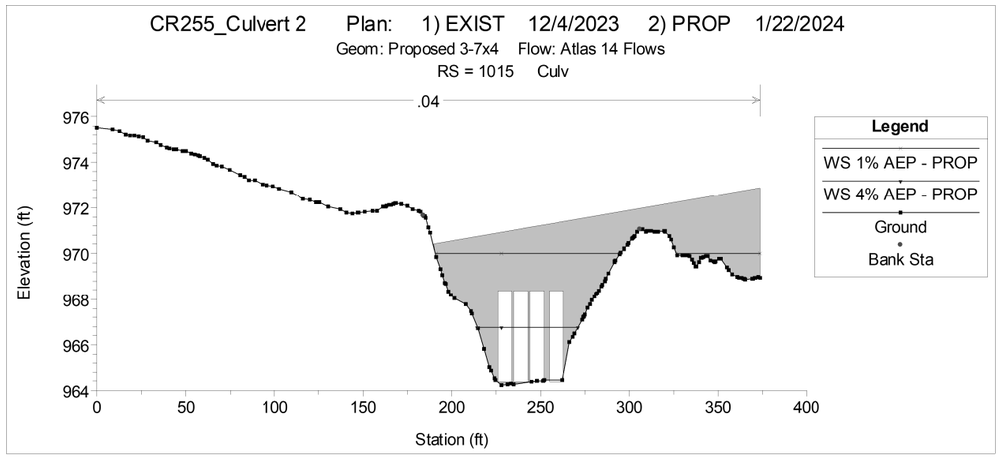

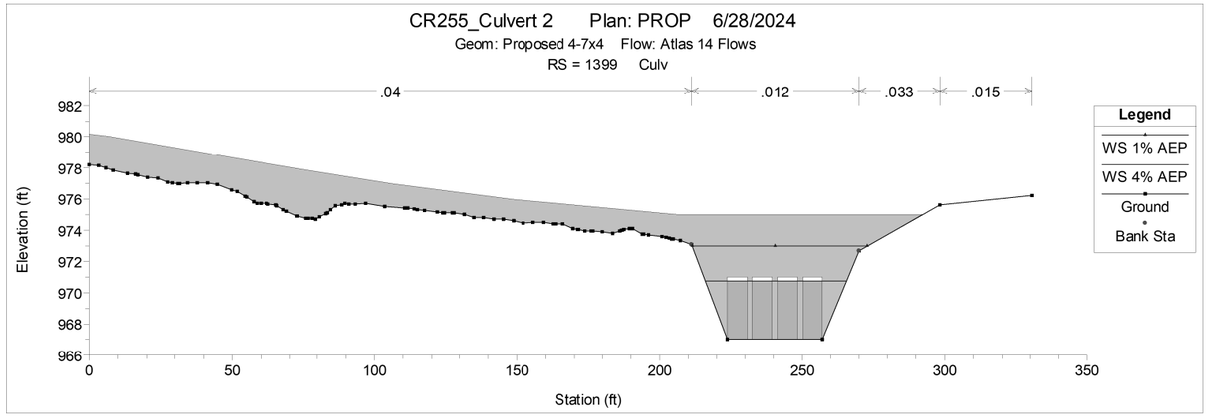

NOTES:

1. CULVERTS WERE MODELED USING HEC-RAS VERSION 6.4.
2. HYDROLOGY FOR ALL BRIDGE-CLASS CROSSINGS WERE COMPUTED BASED ON THE NRCS UH METHOD WITH RAINFALL DEPTHS GATHERED FROM THE NOAA PRECIPITATION FREQUENCY SERVER FOR ATLAS 14.
3. HEC-HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS.
4. REFER TO THE CR 255 DRAINAGE REPORT FOR SOILS INFORMATION.
5. A CURVE NUMBER ADJUSTMENT FACTOR OF -15 WAS APPLIED TO ALL COMPUTED CN VALUES EXCEPT FOR AREAS THAT REPRESENT IMPERVIOUS COVER.

NO.	REVISION	BY	DATE

STATE OF TEXAS
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7/10/2024

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CR 255

HYDRAULIC DATA SHEET

BRIDGE-CLASS CULVERTS 2 & 2B
STA 86+10

SHEET 3 OF 3

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	175

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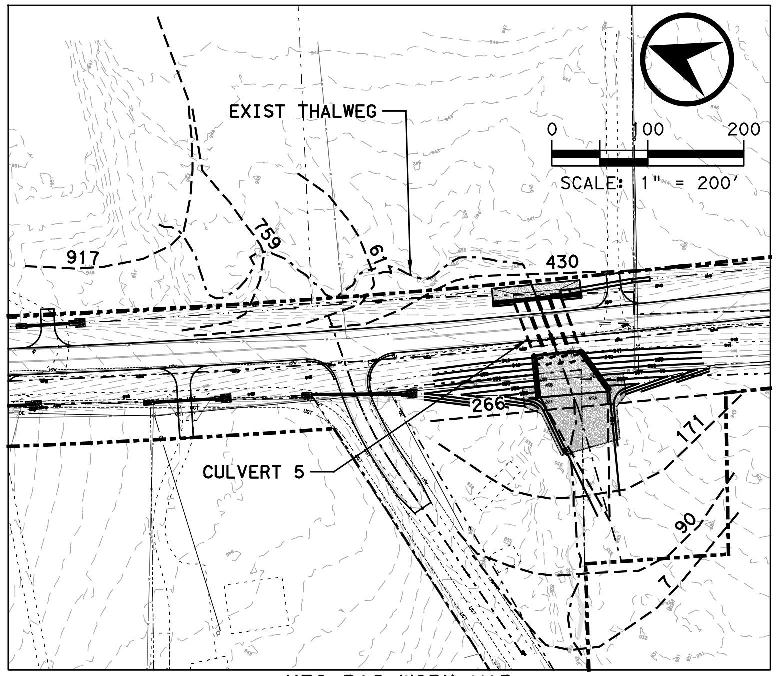

HEC RAS WORK MAP

Plan: PROP River 1 Reach 1 RS: 356	Culv Group: Group #1	Profile: 4% AEP	
Q Culv Group (cfs)	994	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	9.28
Q Barrel (cfs)	248.5	Culv Vel DS (ft/s)	10.66
E.G. US. (ft)	939.03	Culv Inv El Up (ft)	934.34
W.S. US. (ft)	939.8	Culv Inv El Dn (ft)	934.04
E.G. DS (ft)	937.07	Culv Frctn Ls (ft)	0.22
W.S. DS (ft)	936.78	Culv Exit Loss (ft)	1.07
Delta EG (ft)	1.95	Culv Entr Loss (ft)	0.67
Delta WS (ft)	3.02	Q Weir (cfs)	
E.G. IC (ft)	938.67	Weir Sta Lft (ft)	
E.G. OC (ft)	939.03	Weir Sta Rgt (ft)	
Culvert Control	Outlet	Weir Submerg	
Culv WS Inlet (ft)	937.02	Weir Max Depth (ft)	
Culv WS Outlet (ft)	936.37	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.17	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	2.68	Min El Weir Flow (ft)	943.87

Plan: PROP River 1 Reach 1 RS: 356	Culv Group: Group #1	Profile: 1% AEP	
Q Culv Group (cfs)	1560	Culv Full Len (ft)	
# Barrels	4	Culv Vel US (ft/s)	9.75
Q Barrel (cfs)	390	Culv Vel DS (ft/s)	13.65
E.G. US. (ft)	940.87	Culv Inv El Up (ft)	934.34
W.S. US. (ft)	940.25	Culv Inv El Dn (ft)	934.04
E.G. DS (ft)	937.88	Culv Frctn Ls (ft)	0.34
W.S. DS (ft)	937.42	Culv Exit Loss (ft)	1.92
Delta EG (ft)	2.99	Culv Entr Loss (ft)	0.74
Delta WS (ft)	2.83	Q Weir (cfs)	
E.G. IC (ft)	940.87	Weir Sta Lft (ft)	
E.G. OC (ft)	940.67	Weir Sta Rgt (ft)	
Culvert Control	Inlet	Weir Submerg	
Culv WS Inlet (ft)	938.34	Weir Max Depth (ft)	
Culv WS Outlet (ft)	936.9	Weir Avg Depth (ft)	
Culv Nml Depth (ft)	2.97	Weir Flow Area (sq ft)	
Culv Crt Depth (ft)	3.62	Min El Weir Flow (ft)	943.87

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach 1	917	4% AEP	EXIST	994	942.6	945.52		945.82	0.006441	5.37	256.08	196.22	0.61
Reach 1	917	4% AEP	PROP	994	942.6	945.52		945.82	0.006441	5.37	256.09	196.22	0.61
Reach 1	917	1% AEP	EXIST	1560	942.6	946.01		946.37	0.006422	6.07	363.1	234.4	0.63
Reach 1	917	1% AEP	PROP	1560	942.6	946.01		946.37	0.006422	6.07	363.1	234.4	0.63
Reach 1	759	4% AEP	EXIST	994	941.28	944.1	944.1	944.68	0.013143	7.04	182.08	154.59	0.85
Reach 1	759	4% AEP	PROP	994	941.28	944.1	944.1	944.68	0.013143	7.04	182.08	154.59	0.85
Reach 1	759	1% AEP	EXIST	1560	941.28	944.48	944.45	945.25	0.014641	8.29	246.87	191	0.92
Reach 1	759	1% AEP	PROP	1560	941.28	944.48	944.45	945.25	0.014641	8.29	246.87	191	0.92
Reach 1	617	4% AEP	EXIST	994	938.52	942.36	942.36	942.99	0.012334	8.1	223.7	182.85	0.85
Reach 1	617	4% AEP	PROP	994	938.52	942.36	942.36	942.99	0.012287	8.09	224.06	183.04	0.85
Reach 1	617	1% AEP	EXIST	1560	938.52	942.88	942.88	943.58	0.011976	8.95	329.87	222.21	0.87
Reach 1	617	1% AEP	PROP	1560	938.52	942.88	942.88	943.58	0.011976	8.95	329.87	222.21	0.87
Reach 1	430	4% AEP	EXIST	994	937.31	939.95	939.8	940.44	0.011192	6.36	222.37	186.32	0.78
Reach 1	430	4% AEP	PROP	994	937.31	939.8	939.8	940.33	0.013177	6.58	188.18	176.05	0.84
Reach 1	430	1% AEP	EXIST	1560	937.31	940.38	940.27	941.05	0.012556	7.64	308.05	207.83	0.85
Reach 1	430	1% AEP	PROP	1560	937.31	940.25	940.25	940.89	0.012656	7.42	266.6	202.97	0.85
Reach 1	359	4% AEP	EXIST	994	935.43	939.69	939.11	939.92	0.003742	4.6	295.13	206.99	0.48
Reach 1	359	1% AEP	EXIST	1560	935.43	940.01	939.58	940.39	0.005572	6.03	367.95	250.35	0.59
Reach 1	332 Culvert 5			Culvert									
Reach 1	295	4% AEP	EXIST	994	934.49	938.24	938.04	938.84	0.012497	8.04	253.15	151.94	0.86
Reach 1	295	1% AEP	EXIST	1560	934.49	938.95	938.84	939.62	0.011284	8.91	403.31	247.98	0.85
Reach 1	266	4% AEP	EXIST	994	934.57	938.01	937.88	938.45	0.009441	7.13	290.12	170.09	0.75
Reach 1	266	4% AEP	PROP	994	933.73	936.78	935.74	937.07	0.00366	4.36	232.64	113.8	0.47
Reach 1	266	1% AEP	EXIST	1560	934.57	938.8	938.16	939.24	0.007567	7.54	444.68	217.62	0.7
Reach 1	266	1% AEP	PROP	1560	933.73	937.42	936.33	937.88	0.004333	5.46	291.4	142.21	0.53
Reach 1	171	4% AEP	EXIST	994	933.7	936.03	936.03	936.93	0.025256	8.55	158.19	142.44	1.14
Reach 1	171	4% AEP	PROP	994	933.26	935.83	935.55	936.37	0.016766	6.63	215.49	135.89	0.82
Reach 1	171	1% AEP	EXIST	1560	933.7	936.68	936.68	937.87	0.022108	9.86	217.77	163.04	1.12
Reach 1	171	1% AEP	PROP	1560	933.26	936.35	936.16	937.09	0.017474	7.88	290.31	152.58	0.87
Reach 1	90	4% AEP	EXIST	994	932.19	935.36	934.43	935.69	0.007788	6.08	315.76	244.31	0.67
Reach 1	90	4% AEP	PROP	994	932.19	935.21	934.38	935.43	0.006776	5.43	393.08	234.03	0.62
Reach 1	90	1% AEP	EXIST	1560	932.19	936.06	935.05	936.5	0.007926	7.21	434.01	287.43	0.71
Reach 1	90	1% AEP	PROP	1560	932.19	935.85	934.94	936.12	0.006307	6.15	557.31	276.83	0.62
Reach 1	7	4% AEP	EXIST	994	931.8	935.04	933.38	935.1	0.005005	2.08	522.09	302.28	0.22
Reach 1	7	4% AEP	PROP	994	931.8	934.92	933.39	934.98	0.005001	2.02	563.21	296.36	0.22
Reach 1	7	1% AEP	EXIST	1560	931.8	935.8	933.77	935.88	0.005002	2.44	710.15	344.16	0.23
Reach 1	7	1% AEP	PROP	1560	931.8	935.6	933.78	935.68	0.005002	2.35	777.38	335.22	0.23

NOTES:

1. CULVERTS WERE MODELED USING HEC-RAS VERSION 6.4.
2. HYDROLOGY FOR ALL BRIDGE-CLASS CROSSINGS WERE COMPUTED BASED ON THE NRCS UH METHOD WITH RAINFALL DEPTHS GATHERED FROM THE NOAA PRECIPITATION FREQUENCY SERVER FOR ATLAS 14.
3. HEC-HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS.
4. REFER TO THE CR 255 DRAINAGE REPORT FOR SOILS INFORMATION.
5. A CURVE NUMBER ADJUSTMENT FACTOR OF -15 WAS APPLIED TO ALL COMPUTED CN VALUES EXCEPT FOR AREAS THAT REPRESENT IMPERVIOUS COVER.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

DEPARTMENT OF INFRASTRUCTURE
WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
HYDRAULIC DATA SHEET

BRIDGE-CLASS CULVERT 5
STA 118+33

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No. / SECTION No. / JOB No.	SHEET No.
CHECKED:	XX	XX	XX / XX / XX	176

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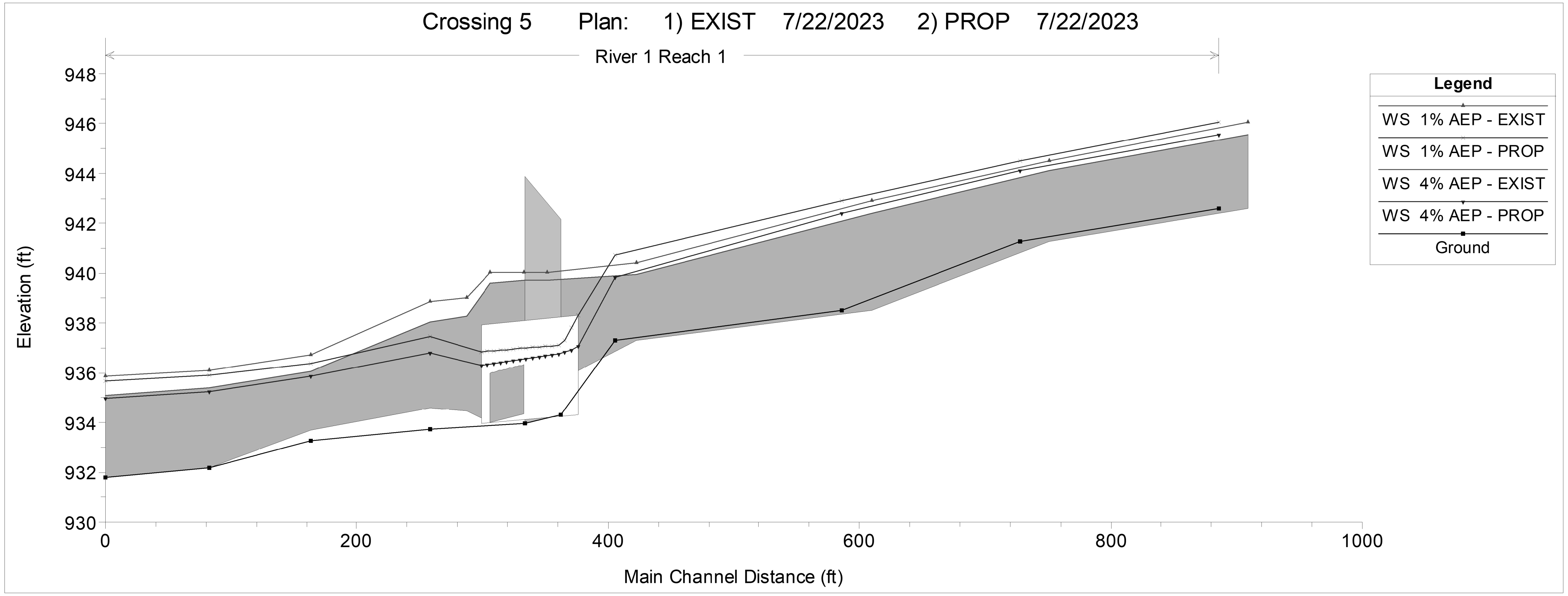

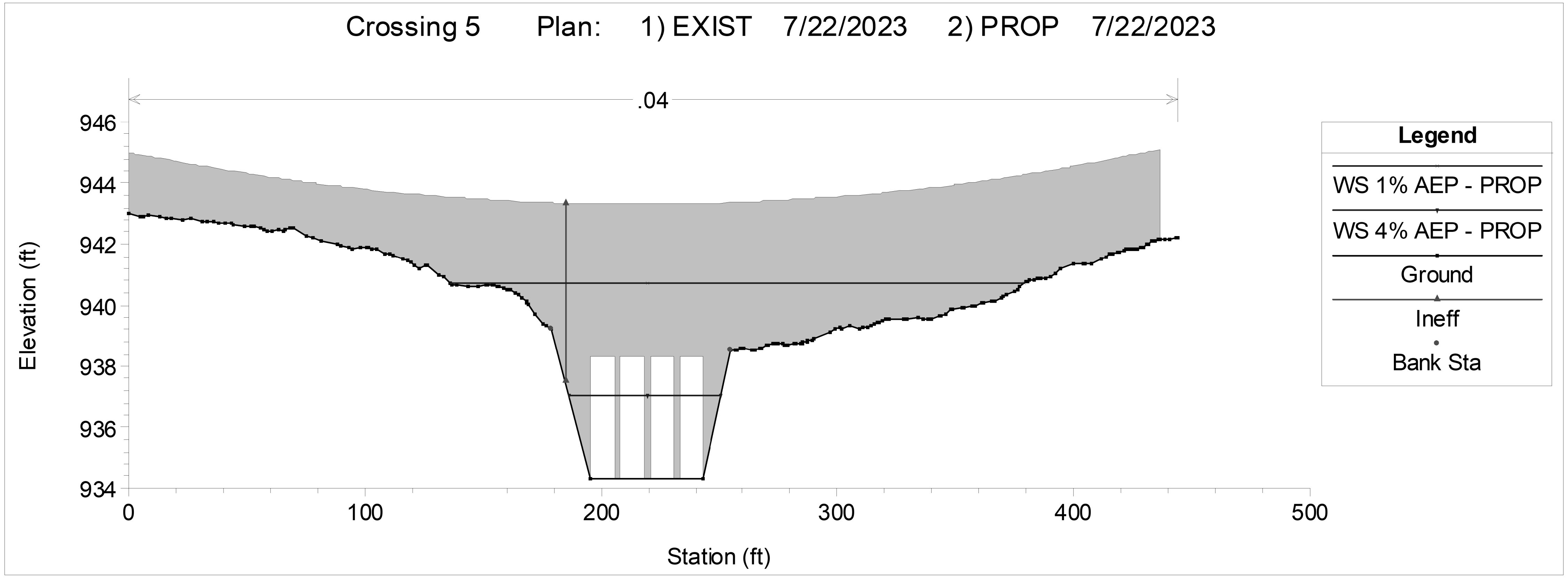

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG
CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
HYDRAULIC DATA SHEET

BRIDGE-CLASS CULVERT 5
STA 118+33

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	177

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CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 3-PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
961.7	25	year	111	111	0
962.19	100	year	147	147	0
965.67	Overtopping	303.99	303.99	0	Overtopping

CULVERT NOTES

Allowable HW (Edge of Pavement) = 965.11 ft

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25	111	111	961.89	2.64	2.69	1-S1t	1.44	1.56	2.11	2.11	5.26	8.31	6.58	1.43
100	147	147	962.41	3.21	2.71	5-JS1t	1.76	1.89	2.34	2.34	6.27	8.92	7.31	1.45

ROADWAY DATA

Coord no.	Station(ft)	Elevation(ft)
0	0	967.24
1	244.95	965.67
2	399.1	966.23

Roadway Surface : Paved

Roadway Length : 28.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 959.20 ft,
Outlet Elevation (invert): 958.89 ft
Culvert Length: 61.00 ft,
Culvert Slope: 0.0051

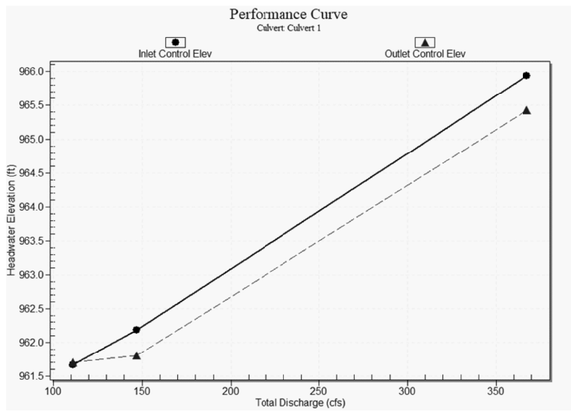
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 959.20 ft
Outlet Station: 61.00 ft
Outlet Elevation: 958.89 ft
Number of Barrels: 2

CULVERT DATA

Barrel Shape: Concrete Box
Barrel Span: 5.00 ft
Barrel Rise: 3.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (90

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Triangular Channel
Side Slope (H:V): 3.00 (_:1)
Channel Slope: 0.0500
Channel Manning's n: 0.0400
Channel Invert Elevation: 958.89 ft

CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 4 - PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
956.96	25	81	81	0	1
957.96	100	105	105	0	1
959.13	Overtopping	124.9	124.9	0	Overtopping

CULVERT NOTES

Allowable HW (EDGE OF PVMT) = 958.58'

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25-YR	81	81	956.96	3.49	3.63	7-M2c	2.13	2.07	2.07	1.54	7.78	3.11	0.96	0.62
100-YR	105	105	957.96	4.63	4.32	7-M2c	3.00	2.36	2.36	1.70	8.82	3.32	1.06	0.64

ROADWAY DATA

Coord No.	Station(ft)	Elevation(ft)
0	0	961.26
1	129.3	959.6
2	244.3	959.13
3	431.4	959.59

Roadway Surface: Paved

Roadway Length: 28.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 953.33 ft,
Outlet Elevation (invert): 952.77 ft
Culvert Length: 111.48 ft,
Culvert Slope: 0.0050

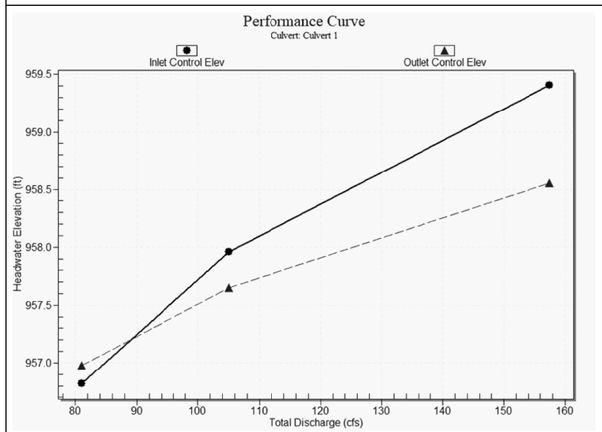
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 953.33 ft
Outlet Station: 111.48 ft
Outlet Elevation: 952.77 ft
Number of Barrels: 2

CULVERT DATA

Barrel Shape: Circular
Barrel Diameter: 3.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Mitered to Conform to Slope (Ke=0.7)
Inlet Depression: None

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Triangular Channel
Side Slope (H:V): 11.00 (_:1)
Channel Slope: 0.0100
Channel Manning's n: 0.0400
Channel Invert Elevation: 952.77 ft

HY-8 FLOW TYPES

Flow Type	Flow Control	Submerged Inlet	Submerged Outlet	Length Full	Loss Calc	Outlet Depth
1	Inlet	No	No	None	S2n	Normal
1	Inlet	No	No	None	S1t	Tailwater
1	Inlet	No	Yes	Part	S1f	Full
5	Inlet	Yes	No	None	S2n	Normal
5	Inlet	Yes	No	None	S1t	Tailwater
5	Inlet	Yes	Yes	Part	S1f	Full
2	Outlet	No	No	None	M2c	Critical
3	Outlet	No	No	None	M1t	Tailwater
3	Outlet	No	No	None	M2t	Tailwater
3	Outlet	No	Yes	Part	M1f	Full
4	Outlet	Yes	Yes	ALL	FFf	Full
6	Outlet	Yes	No	Most	FFt	Tailwater
6	Outlet	Yes	No	Most	FFc	Critical
7	Outlet	Yes	No	Part	M1t	Tailwater
7	Outlet	Yes	No	Part	M2t	Tailwater
7	Outlet	Yes	No	Part	M2c	Critical

CULVERT COMPUTATION NOTES:

1. ALL MINOR CULVERTS WERE ANALYZED AND DESIGNED USING HY-8 VERSION 7.80.
2. DESIGN STORM IS 25-YEAR.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann 7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE COMPUTATIONS
CULVERTS 3 & 4

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	178

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CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 6A - PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
947.41	25	111	111	0	1
948.29	100	145	145	0	1
948.57	Overtopping	154.38	154.38	OT	Overtopping

CULVERT NOTES

Allowable HW (EDGE OF PVMT) = 948.57 ft

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25 year	111	111	947.41	2.79	2.14	5-S2n	1.15	1.56	1.22	1.36	9.13	5.41	1.70	0.92
100 year	145	145	948.29	3.67	2.95	5-S2n	1.38	1.87	1.48	1.57	9.82	5.87	1.96	0.94

ROADWAY DATA

Coord No.	Station(ft)	Elevation(ft)
0	0	948.86
1	53.4	948.57
2	100	948.79

Roadway Surface: Paved

Roadway Length: 28.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 944.62 ft,
Outlet Elevation (invert): 944.04 ft
Culvert Length: 59.00 ft,
Culvert Slope: 0.0098

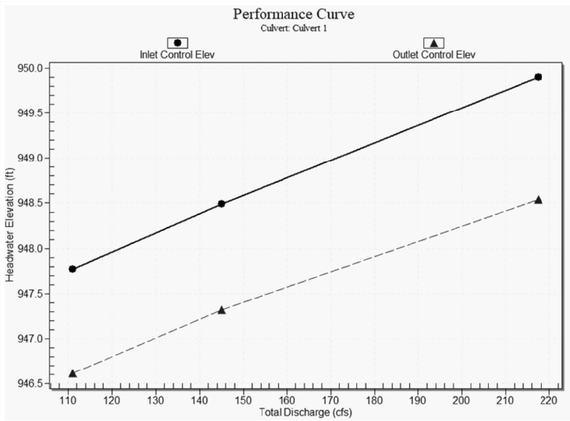
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 944.62 ft
Outlet Station: 59.00 ft
Outlet Elevation: 944.04 ft
Number of Barrels: 2

CULVERT DATA

Barrel Shape: Concrete Box
Barrel Span: 5.00 ft
Barrel Rise: 2.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (90 deg)
Headwall (Ke=0.5)
Inlet Depression: None

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Trapezoidal Channel
Bottom Width: 11.00 ft
Side Slope (H:V): 3.00 (_:1)
Channel Slope: 0.0200
Channel Manning's n: 0.0400
Channel Invert Elevation: 944.04 ft

CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 6B-PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
944.3	25	128	128	0	1
944.93	100	167	167	0	1
945	Overtopping	171.47	171.47	OT	Overtopping

CULVERT NOTES

Culvert 6B
Allowable HW (EDGE OF PVMT)=945.00 ft

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25 year	128	128	944.3	2.91	2.21	1-JS1t	1.57	1.72	2.11	2.11	6.08	3.51	0.68	0.5
100 year	167	167	944.93	3.54	2.91	5-JS1t	1.90	2.05	2.42	2.42	6.91	3.78	0.78	0.51

ROADWAY DATA

Roadway Profile Shape: Irregular Roadway Shape (coordinates)

Coord No.	Station(ft)	Elevation(ft)
0	0	945.69
1	30.4	945
2	33.7	944.67
3	53.6	944.67
4	58.3	946.23

Roadway Surface: Gravel

Roadway Top Width: 4.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 941.39 ft,
Outlet Elevation (invert): 940.94 ft
Culvert Length: 85.00 ft,
Culvert Slope: 0.0053

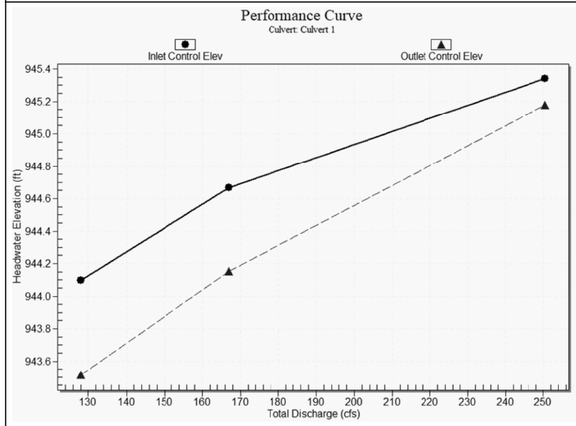
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 941.39 ft
Outlet Station: 85.00 ft
Outlet Elevation: 940.94 ft
Number of Barrels: 2

CULVERT DATA

Barrel Shape: Concrete Box
Barrel Span: 5.00 ft
Barrel Rise: 3.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (90 deg)
Headwall (Ke=0.5)
Inlet Depression: None

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Trapezoidal Channel
Bottom Width: 11.00 ft
Side Slope (H:V): 3.00 (_:1)
Channel Slope: 0.0052
Channel Manning's n: 0.0400
Channel Invert Elevation: 940.94 ft

HY-8 FLOW TYPES

Flow Type	Flow Control	Submerged Inlet	Submerged Outlet	Length Full	Loss Calc	Outlet Depth
1	Inlet	No	No	None	S2n	Normal
1	Inlet	No	No	None	S1t	Tailwater
1	Inlet	No	Yes	Part	S1f	Full
5	Inlet	Yes	No	None	S2n	Normal
5	Inlet	Yes	No	None	S1t	Tailwater
5	Inlet	Yes	Yes	Part	S1f	Full
2	Outlet	No	No	None	M2c	Critical
3	Outlet	No	No	None	M1t	Tailwater
3	Outlet	No	No	None	M2t	Tailwater
3	Outlet	No	Yes	Part	M1f	Full
4	Outlet	Yes	Yes	ALL	FFf	Full
6	Outlet	Yes	No	Most	FFt	Tailwater
6	Outlet	Yes	No	Most	FFc	Critical
7	Outlet	Yes	No	Part	M1t	Tailwater
7	Outlet	Yes	No	Part	M2t	Tailwater
7	Outlet	Yes	No	Part	M2c	Critical

CULVERT COMPUTATION NOTES:

1. ALL MINOR CULVERTS WERE ANALYZED AND DESIGNED USING HY-8 VERSION 7.80.
2. DESIGN STORM IS 25-YEAR.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE COMPUTATIONS

CULVERTS 6A & 6B

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	179

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CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 7 - PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
939.84	25	year	92.4	92.4	0
941.08	100	year	120	120	0
942.04	Overtopping	137.85	137.85	0	Overtopping

CULVERT NOTES

Culvert 7
Allowable HW (EDGE OF PVMT) = 941.49 ft

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25 year	92.4	92.4	939.84	3.95	2.83	5-S2n	1.62	2.20	1.77	1.98	10.47	4.28	1.23	0.67
100 year	120	120	941.08	5.19	4.24	5-S2n	1.95	2.62	2.14	2.24	11.21	4.58	1.40	0.68

ROADWAY DATA

Coord No.	Station(ft)	Elevation(ft)
0	0	942.64
1	140.05	942.04
2	296.8	942.64

Roadway Surface: Paved
Roadway Length: 28.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 935.89 ft,
Outlet Elevation (invert): 935.36 ft
Culvert Length: 51.80 ft,
Culvert Slope: 0.0102

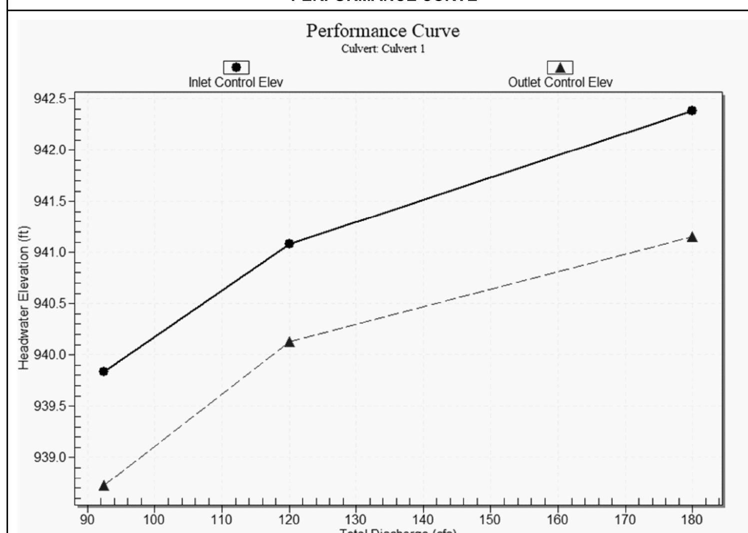
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 935.89 ft
Outlet Station: 51.80 ft
Outlet Elevation: 935.36 ft
Number of Barrels: 1

CULVERT DATA

Barrel Shape: Concrete Box
Barrel Span: 5.00 ft
Barrel Rise: 3.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (0Â° flare)
Wingwall (Ke=0.7)
Inlet Depression: None

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Trapezoidal Channel
Bottom Width: 5.00 ft
Side Slope (H:V): 3.00 (_:1)
Channel Slope: 0.0100
Channel Manning's n: 0.0400
Channel Invert Elevation: 935.36 ft

CR 255 HY-8 CULVERT ANALYSIS REPORT

CULVERT 8 - PROPOSED CONDITIONS

SUMMARY OF CULVERT FLOWS AT CROSSING

HW Elev (ft)	Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	Rdwy Q (cfs)	Iterations
943.64	25	year	35.4	35.4	0
944.13	100	year	45.4	45.4	0
944.2	Overtopping	46.74	46.74	0	Overtopping

CULVERT NOTES

Allowable HW (EDGE OF PVMT) = 945.26 ft

CULVERT SUMMARY TABLE

Storm Freq.	Total Q (cfs)	Culvert Q (cfs)	HW Elev (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Crit Depth (ft)	Outlet Depth (ft)	TW Depth (ft)	Outlet Vel (ft/s)	TW Vel (ft/s)	Shear (psf)	Froude Number
25 year	35.4	35.4	943.64	2.11	1.83	5-JS1t	1.29	1.34	1.57	1.57	5.64	2.59	0.49	0.45
100 year	45.4	45.4	944.13	2.60	2.41	5-JS1t	1.54	1.59	1.76	1.76	6.43	2.77	0.55	0.46

ROADWAY DATA

Coord No	Station(ft)	Elevation(ft)
0	0	949.36
1	185.36	946.07
2	200.44	944.2
3	212.8	944.2
4	219.5	945.96

Roadway Surface: Paved
Roadway Top Width: 28.00 ft

Culvert Barrel Type Straight Culvert
Inlet Elevation (invert): 941.53 ft,
Outlet Elevation (invert): 941.19 ft
Culvert Length: 68.00 ft,
Culvert Slope: 0.0050

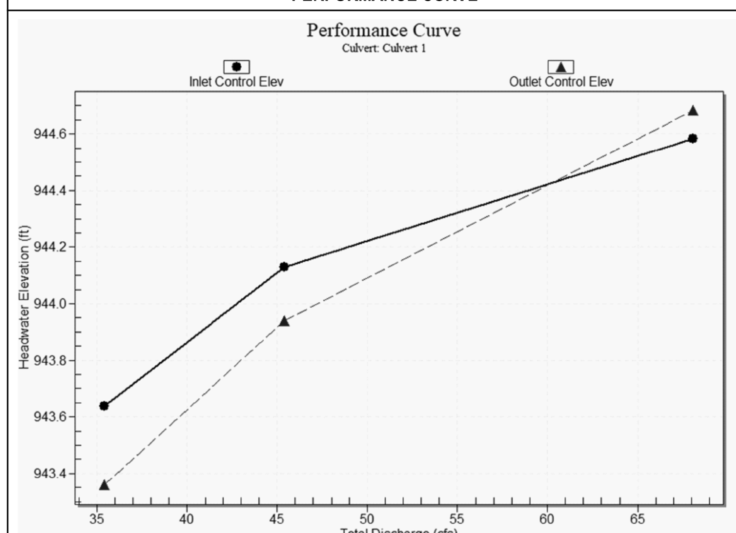
SITE DATA

Site Data Option: Culvert Invert Data
Inlet Station: 0.00 ft
Inlet Elevation: 941.53 ft
Outlet Station: 68.00 ft
Outlet Elevation: 941.19 ft
Number of Barrels: 1

CULVERT DATA

Barrel Shape: Concrete Box
Barrel Span: 4.00 ft
Barrel Rise: 2.00 ft
Barrel Material: Concrete
Embedment: 0.00 in
Barrel Manning's n: 0.0130
Culvert Type: Straight
Inlet Configuration: Square Edge (30-75Â° flare)
Wingwall (Ke=0.4)
Inlet Depression: None

PERFORMANCE CURVE



TAILWATER DATA

Tailwater Channel Option: Trapezoidal Channel
Bottom Width: 4.00 ft
Side Slope (H:V): 3.00 (_:1)
Channel Slope: 0.0050
Channel Manning's n: 0.0400
Channel Invert Elevation: 941.19 ft

HY-8 FLOW TYPES

Flow Type	Flow Control	Submerged Inlet	Submerged Outlet	Length Full	Loss Calc	Outlet Depth
1	Inlet	No	No	None	S2n	Normal
1	Inlet	No	No	None	S1t	Tailwater
1	Inlet	No	Yes	Part	S1f	Full
5	Inlet	Yes	No	None	S2n	Normal
5	Inlet	Yes	No	None	S1t	Tailwater
5	Inlet	Yes	Yes	Part	S1f	Full
2	Outlet	No	No	None	M2c	Critical
3	Outlet	No	No	None	M1t	Tailwater
3	Outlet	No	No	None	M2t	Tailwater
3	Outlet	No	Yes	Part	M1f	Full
4	Outlet	Yes	Yes	ALL	FFf	Full
6	Outlet	Yes	No	Most	FFt	Tailwater
6	Outlet	Yes	No	Most	FFc	Critical
7	Outlet	Yes	No	Part	M1t	Tailwater
7	Outlet	Yes	No	Part	M2t	Tailwater
7	Outlet	Yes	No	Part	M2c	Critical

CULVERT COMPUTATION NOTES:

1. ALL MINOR CULVERTS WERE ANALYZED AND DESIGNED USING HY-8 VERSION 7.80.
2. DESIGN STORM IS 25-YEAR.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE COMPUTATIONS
CULVERTS 7 & 8

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	180

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RUNOFF SUMMARY FOR DRAINAGE AREAS SMALLER THAN 200 ACRES USING THE RATIONAL METHOD											
DRAINAGE AREA		SUBAREAS (AC)					COMPOSITE	TOTAL	TOTAL	INTENSITY	DISCHARGE
NO.	ACRES	SUBAREA 1			REMAINING AREA		C VALUE	CA	Tc	I(5)	Q(5)
		AREA (AC)	C	LAND USE	AREA (AC)	C			(MIN)	(IN/HR)	(CFS)
1A0	1.71	0.69	0.90	IMP	1.03	0.41	0.61	1.04	10.00	6.01	6.24
1A3	103.04	1.90	0.90	IMP	101.13	0.41	0.42	43.17	42.00	2.92	126
1A5	61.27	0.86	0.90	IMP	60.41	0.41	0.42	25.55	39.00	3.06	78.2
1B0	4.70	0.22	0.90	IMP	4.48	0.40	0.42	1.99	14.00	5.26	10.5
1B2	27.16	0.28	0.90	IMP	26.88	0.41	0.41	11.27	33.00	3.38	38.2
1C0	13.23	0.17	0.90	IMP	13.05	0.41	0.42	5.50	25.00	3.96	21.8
1C2	129.49	1.80	0.90	IMP	127.69	0.41	0.42	54.00	25.00	3.96	214
1C3	34.91	0.04	0.90	IMP	34.87	0.41	0.41	14.31	37.00	3.16	45.3
1D0	0.64	0.02	0.90	IMP	0.63	0.41	0.42	0.27	10.00	6.01	1.64
2A0	8.82	0.17	0.90	IMP	8.66	0.40	0.41	3.61	18.00	4.69	16.9
2A3	14.39	0.58	0.90	IMP	13.81	0.40	0.42	6.04	29.00	3.65	22.1
2A5	4.16	0.21	0.90	IMP	3.95	0.40	0.42	1.77	21.00	4.34	7.68
2A7	3.32	0.20	0.90	IMP	3.12	0.40	0.43	1.43	14.00	5.26	7.51
2A9	1.33	0.18	0.90	IMP	1.15	0.40	0.47	0.62	10.00	6.01	3.74
2B0	1.05	0.23	0.90	IMP	0.82	0.40	0.51	0.53	13.00	5.42	2.89
2C0	1.30	0.03	0.90	IMP	1.28	0.40	0.41	0.53	15.00	5.10	2.73
2C3	1.37	0.05	0.90	IMP	1.32	0.40	0.42	0.58	10.00	6.01	3.46
2C5	0.84	0.05	0.90	IMP	0.79	0.40	0.43	0.36	10.00	6.01	2.18
2C9	0.67	0.05	0.90	IMP	0.62	0.40	0.44	0.29	10.00	6.01	1.77
3A0	2.27	0.25	0.90	IMP	2.02	0.38	0.44	1.00	12.00	5.61	5.58
3A3	1.05	0.23	0.90	IMP	0.82	0.37	0.49	0.51	15.00	5.10	2.61
3B0	3.19	0.33	0.90	IMP	2.87	0.37	0.42	1.35	10.00	6.01	8.14
3C3	0.34	0.03	0.90	IMP	0.32	0.37	0.41	0.14	10.00	6.01	0.85
3C4	0.26	0.01	0.90	IMP	0.25	0.37	0.40	0.10	15.00	5.10	0.53
3D0	0.27	0.04	0.90	IMP	0.23	0.37	0.45	0.12	10.00	6.01	0.73
3D2	0.44	0.05	0.90	IMP	0.39	0.37	0.43	0.19	10.00	6.01	1.12
3D3	0.35	0.01	0.90	IMP	0.34	0.37	0.39	0.14	10.00	6.01	0.83
4A0	15.05	0.74	0.90	IMP	14.31	0.37	0.40	5.96	25.00	3.96	23.6
4B0	0.91	0.10	0.90	IMP	0.81	0.37	0.43	0.39	10.00	6.01	2.34
4C0	0.33	0.04	0.90	IMP	0.29	0.37	0.44	0.14	10.00	6.01	0.87
4C2	0.68	0.03	0.90	IMP	0.65	0.37	0.39	0.27	10.00	6.01	1.6
4D0	0.17	0.01	0.90	IMP	0.17	0.37	0.40	0.07	10.00	6.01	0.42
5A0	0.86	0.09	0.90	IMP	0.77	0.37	0.42	0.37	12.00	5.61	2.06
5A3	1.52	0.30	0.90	IMP	1.22	0.37	0.48	0.72	12.00	5.61	4.05
5B0	7.82	0.30	0.90	IMP	7.52	0.37	0.39	3.05	22.00	4.24	12.9
5B3	64.26	0.82	0.90	IMP	63.44	0.34	0.35	22.30	22.00	4.24	94.6
5C0	0.85	0.03	0.90	IMP	0.82	0.37	0.39	0.33	10.00	6.01	1.99
5C3	0.33	0.03	0.90	IMP	0.30	0.37	0.41	0.14	10.00	6.01	0.82
5C5	0.31	0.05	0.90	IMP	0.26	0.37	0.46	0.14	10.00	6.01	0.86
5C6	0.31	0.03	0.90	IMP	0.28	0.37	0.42	0.13	10.00	6.01	0.79
5D0	0.98				0.98	0.37	0.37	0.36	10.00	6.01	2.18
5D3	1.04	0.03	0.90	IMP	1.02	0.37	0.38	0.40	10.00	6.01	2.4
5D4	0.42	0.01	0.90	IMP	0.41	0.37	0.38	0.16	10.00	6.01	0.97
6A0	1.18	0.54	0.90	IMP	0.64	0.34	0.60	0.70	10.00	6.01	4.22
6A1	0.17	0.09	0.90	IMP	0.09	0.34	0.62	0.11	10.00	6.01	0.63
6B0	0.35	0.16	0.90	IMP	0.19	0.34	0.59	0.20	10.00	6.01	1.23
6C0	0.36	0.03	0.90	IMP	0.33	0.34	0.39	0.14	10.00	6.01	0.84
6C3	0.23	0.03	0.90	IMP	0.20	0.34	0.41	0.09	10.00	6.01	0.56
6C5	0.85	0.04	0.90	IMP	0.81	0.34	0.37	0.32	10.00	6.01	1.9
6D1	0.40	0.18	0.90	IMP	0.22	0.34	0.59	0.24	10.00	6.01	1.42
7A0	0.76	0.34	0.90	IMP	0.42	0.37	0.61	0.46	10.00	6.01	2.77
7B0	0.92	0.42	0.90	IMP	0.51	0.37	0.61	0.56	10.00	6.01	3.38
8A0	1.55	0.58	0.90	IMP	0.97	0.37	0.57	0.89	10.00	6.01	5.32
9A0	0.45	0.08	0.90	IMP	0.37	0.37	0.47	0.21	10.00	6.01	1.26
9A2	0.82	0.07	0.90	IMP	0.76	0.37	0.41	0.34	10.00	6.01	2.04
2A10	1.17	0.35	0.90	IMP	0.81	0.46	0.59	0.69	10.00	6.01	4.16
2C11	0.15	0.03	0.90	IMP	0.12	0.40	0.49	0.07	10.00	6.01	0.45
2C13	0.54	0.54	0.90	IMP	0.00	0.40	0.90	0.49	10.00	6.01	2.93
2C15	1.24	0.03	0.90	IMP	1.21	0.40	0.41	0.51	13.00	5.42	2.76
2C17	3.04	0.05	0.90	IMP	2.99	0.40	0.41	1.24	13.00	5.42	6.72

NOTES:

1. ALL PEAK FLOWS WERE COMPUTED USING GEOPAK DRAINAGE.
2. INTENSITIES WERE COMPUTED USING TXDOT'S ATLAS 14 SPREADSHEET (EBDLKUP-2019-VC6.2.10.XLSM) FOR WILLIAMSON COUNTY USING PARTIAL DURATION IN THE SAN GABRIEL RIVER ZONE

NO.	REVISION	BY	DATE

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE COMPUTATIONS

RUNOFF SUMMARY - 5 YR

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	181

Conveyance

Link I.D.	Node I.D. US	Node I.D. DS	Invert Elev US (ft)	Invert Elev DS (ft)	Soffit Elev US (ft)	Soffit Elev DS (ft)	Link Type	No. of Barrels	Span (ft)	Rise/ Dia (ft)	Link Mtrl	Shape	Hyd Length (ft)	Slope (%)	Manning's "n"	H.G.L. US Elev (ft)	H.G.L. DS Elev (ft)	E.G.L. US Elev (ft)	E.G.L. DS Elev (ft)	Unif Depth (ft)	Unif Vel (ft/s)	Crit Depth (ft)	Crit Vel (ft/s)	Crit Slope (%)	Frictn Slope (%)	Actual Depth (ft)	Actual Vel (ft/s)	Total Q (cfs)	Link Capacity (cfs)	Junctn Loss (ft)
LINE 1A1	1A1	1A2	1024.84	1024.29	1026.34	1025.79	Pipe	1		1.5	Concrete	Circular	41.34	1.33	0.012	1025.91	1025.04	1026.33	1025.81	0.73	7.33	0.97	5.19	0.54	1.33	0.75	7.02	6.24	14.12	0.11
LINE 1A3	1A3	1A4	1020.51	1020.38	1023.51	1023.38	Pipe	2	4	3	Concrete	Box	26.21	0.50	0.012	1023.93	1023.65	1024.38	1026.93	1.88	8.60	2.01	8.04	0.42	0.50	3.00	5.39	129	234.27	0.21
LINE 1A5	1A5	1A6	1007.67	1007.25	1010.67	1010.25	Pipe	2	5	3	Concrete	Box	39.54	1.06	0.012	1011.25	1010.86	1011.89	1014.70	1.55	12.38	2.26	8.52	0.38	1.06	3.00	6.42	192	464.71	0.28
LINE 1B1	1B1	1B2	1006.10	1005.83	1008.10	1007.83	Pipe	1		2	Concrete	Circular	54.41	0.50	0.012	1008.21	1008.06	1008.38	1008.22	1.13	5.72	1.16	5.54	0.45	0.49	2.00	3.33	10.5	18.57	0.05
LINE 1B3	1B3	1B4	1004.96	1003.20	1006.96	1005.20	Pipe	2	3	2	Concrete	Box	81.06	2.17	0.012	1006.23	1003.92	1006.83	1005.62	0.68	10.99	1.20	6.22	0.43	2.17	0.72	10.45	44.9	195.04	0.07
LINE 2A1	2A1	2A2	1007.18	1006.85	1009.18	1008.85	Pipe	1		2	Concrete	Circular	51.48	0.64	0.012	1008.87	1008.29	1009.58	1009.05	1.44	7.00	1.48	6.78	0.59	0.64	1.44	7.00	16.9	21.11	0.20
LINE 2A3	2A3	2A4	1002.97	1002.76	1004.97	1004.76	Pipe	2		2	Concrete	Circular	28.00	0.75	0.012	1004.99	1004.74	1005.50	1005.07	1.39	7.54	1.51	6.91	0.61	0.75	1.98	5.62	35.2	45.66	0.15
LINE 2A5	2A5	2A6	998.73	998.23	1000.73	1000.23	Pipe	2		2	Concrete	Circular	28.00	1.79	0.012	1000.52	999.52	1001.39	1000.93	1.14	10.99	1.62	7.49	0.71	1.78	1.29	9.51	40.8	70.46	0.17
LINE 2A7	2A7	2A8	993.77	993.42	995.77	995.42	Pipe	1	3	2	Concrete	Box	21.00	1.67	0.012	995.91	994.93	996.87	996.48	1.22	12.31	1.92	7.85	0.51	1.68	1.51	9.99	45.1	85.44	0.22
LINE 2A9	2A9	2A10	989.44	989.05	991.44	991.05	Pipe	1	3	2	Concrete	Box	23.00	1.70	0.012	991.62	990.58	992.60	992.19	1.25	12.48	1.96	7.94	0.51	1.70	1.53	10.19	46.6	86.18	0.23
LINE 2B0	2B0	2B OUT	967.53	967.46	969.03	968.96	Pipe	1		1.5	Concrete	Circular	12.22	0.65	0.012	968.46	968.05	968.67	968.36	0.58	4.61	0.65	3.97	0.43	0.65	0.59	4.48	2.89	9.89	0.24
LINE 2C1	2C1	2C2	1003.97	1003.69	1005.47	1005.19	Pipe	1		1.5	Concrete	Circular	52.95	0.53	0.012	1004.67	1004.28	1004.91	1004.56	0.59	4.19	0.63	3.90	0.43	0.53	0.59	4.19	2.73	8.90	0.08
LINE 2C3	2C3	2C4	993.87	992.63	995.37	994.13	Pipe	1		1.5	Concrete	Circular	82.00	1.51	0.012	994.72	993.17	995.01	993.88	0.54	6.79	0.76	4.38	0.46	1.51	0.54	6.74	3.91	15.05	0.09
LINE 2C5	2C5	2C8	987.21	986.32	988.71	987.82	Pipe	1		1.5	Concrete	Circular	96.01	0.93	0.012	988.16	987.02	988.50	987.57	0.69	6.01	0.84	4.70	0.49	0.93	0.70	5.98	4.8	11.79	0.11
LINE 2C9	2C9	2C10	984.02	983.69	985.52	985.19	Pipe	1		1.5	Concrete	Circular	42.01	0.79	0.012	985.04	984.48	985.41	985.00	0.79	5.83	0.90	4.93	0.51	0.79	0.79	5.76	5.47	10.85	0.11
LINE 3A1	3A1	3A2	965.26	964.82	966.76	966.32	Pipe	1		1.5	Concrete	Circular	40.00	1.10	0.012	966.26	965.56	966.65	966.20	0.72	6.65	0.91	4.97	0.51	1.10	0.74	6.44	5.58	12.84	0.09
LINE 3A3	3A3	3A4	964.03	963.62	965.53	965.12	Pipe	1		1.5	Concrete	Circular	42.00	0.98	0.012	965.24	964.55	965.74	965.25	0.91	6.83	1.07	5.68	0.61	0.97	0.93	6.72	7.69	12.09	0.14
LINE 3C3	3C3	3C4	961.33	960.76	962.83	962.26	Pipe	1		1.5	Concrete	Circular	68.00	0.84	0.012	961.79	961.05	961.92	961.25	0.29	3.55	0.34	2.79	0.42	0.83	0.29	3.54	0.85	11.21	0.12
LINE 3D0	3D0	3D1	961.46	961.04	962.96	962.54	Pipe	1		1.5	Concrete	Circular	82.00	0.51	0.012	962.15	961.52	962.34	961.74	0.48	3.71	0.51	3.46	0.42	0.51	0.48	3.71	1.83	8.76	0.19
LINE 3D2	3D2	3D3	960.13	959.78	961.63	961.28	Pipe	1		1.5	Concrete	Circular	69.00	0.51	0.012	960.69	960.26	960.88	960.48	0.48	3.71	0.51	3.46	0.42	0.51	0.48	3.71	1.83	8.72	0.05
LINE 4A1	4A1	4A2	955.69	955.15	957.69	957.15	Pipe	1		2	Concrete	Circular	42.11	1.28	0.012	957.74	956.64	958.79	958.02	1.42	9.93	1.72	8.20	0.86	1.29	1.49	9.42	23.6	29.85	0.33
LINE 4C1	4C1	4C2	960.10	958.85	961.60	960.35	Pipe	1		1.5	Concrete	Circular	91.49	1.37	0.012	960.49	959.11	960.61	959.39	0.26	4.25	0.35	2.79	0.41	1.37	0.26	4.25	0.87	14.31	0.04
LINE 5A1	5A1	5A2	954.92	954.68	956.42	956.18	Pipe	1		1.5	Concrete	Circular	45.78	0.52	0.012	955.50	955.19	955.70	955.42	0.51	3.87	0.54	3.58	0.42	0.52	0.51	3.87	2.06	8.86	0.03
LINE 5A3	5A3	5A4	948.49	947.16	949.99	948.66	Pipe	1		1.5	Concrete	Circular	44.75	2.97	0.012	949.50	947.73	949.88	948.95	0.54	9.48	0.90	4.91	0.51	2.97	0.57	8.87	5.41	21.10	0.12
LINE 5B1	5B1	5B2	961.20	959.56	962.70	961.06	Pipe	1		1.5	Concrete	Circular	65.01	2.52	0.012	962.80	960.54	963.73	962.27	0.94	11.13	1.35	7.73	1.14	2.53	0.98	10.55	12.9	19.44	0.25
LINE 5B3	5B3	5B4	938.95	934.35	940.95	936.35	Pipe	1	4	2	Concrete	Box	66.80	6.89	0.012	941.74	935.56	943.94	941.54	0.97	24.48	2.00	11.88	1.58	6.89	1.21	19.59	95.1	256.50	0.79
LINE 5C1	5C1	5C2	949.52	947.82	951.02	949.32	Pipe	1		1.5	Concrete	Circular	59.17	2.87	0.012	950.10	948.15	950.30	948.91	0.33	7.03	0.53	3.55	0.42	2.87	0.33	6.98	1.99	20.75	0.05
LINE 5C3	5C3	5C4	944.07	942.41	945.57	943.91	Pipe	1		1.5	Concrete	Circular	64.19	2.59	0.012	944.78	942.81	945.02	943.67	0.40	7.50	0.64	3.93	0.43	2.59	0.40	7.39	2.81	19.69	0.07
LINE 5C5	5C5	5C6	939.90	937.57	941.40	939.07	Pipe	1		1.5	Concrete	Circular	93.05	2.50	0.012	940.71	938.03	940.99	939.00	0.45	7.94	0.72	4.25	0.45	2.50	0.46	7.90	3.58	19.37	0.08
LINE 5D1	5D1	5D2	953.16	947.95	954.66	949.45	Pipe	1		1.5	Concrete	Circular	95.69	5.44	0.012	953.78	948.24	953.99	949.52	0.29	9.06	0.56	3.64	0.42	5.44	0.29	9.02	2.18	28.56	0.07
LINE 5D3	5D3	5D4	938.91	938.24	940.41	939.74	Pipe	1		1.5	Concrete	Circular	97.58	0.69	0.012	939.90	939.80	940.12	940.56	0.71	5.21	0.79	4.51	0.47	0.69	1.50	2.42	4.29	10.14	0.07
LINE 6C1	6C1	6C2	962.08	960.76	963.58	962.26	Pipe	1		1.5	Concrete	Circular	75.90	1.74	0.012	962.44	961.00	962.57	961.33	0.24	4.57	0.34	2.81	0.44	1.74	0.24	4.57	0.84	16.14	0.02
LINE 6C3	6C3	6C4	959.63	958.09	961.13	959.59	Pipe	1		1.5	Concrete	Circular	78.56	1.96	0.012	960.12	958.39	960.28	958.87	0.30	5.54	0.44	3.21	0.42	1.95	0.30	5.54	1.4	17.14	0.04
LINE 6C5	6C5	6C6	944.69	943.12	946.19	944.62	Pipe	1		1.5	Concrete	Circular	85.94	1.83	0.012	945.47	943.59	945.73	944.33	0.47	6.92	0.69	4.14	0.44	1.82	0.47	6.89	3.29	16.55	0.09
LINE 6D1	6D1	6D2	947.00	946.53	948.50	948.03	Pipe	1		1.5	Concrete	Circular	24.67	1.90	0.012	947.61	946.84	947.77	947.28	0.30	5.52	0.45	3.20	0.41	1.90	0.31	5.30	1.42	16.90	0.16
LINE 9A1	9A1	9A2	952.97	951.18	954.47	952.68	Pipe	1		1.5	Concrete	Circular	107.89	1.66	0.012	953.43	951.48	953.58	951.88	0.30	5.08	0.42	3.12	0.42	1.66	0.30	5.08	1.26	15.77	0.04
LINE 9A3	9A3	9A OUT	944.08	941.83	946.08	943.83	Pipe	1		2	Concrete	Circular	102.00	2.21	0.012	944.78	942.24	945.01	943.04	0.41	7.20	0.64	3.85	0.38	2.21	0.41	7.16	3.3	39.15	0.06
LINE 2C11	2C11	2C12	983.34	982.99	984.84	984.49	Pipe	1		1.5	Concrete	Circular	44.00	0.80	0.012	984.37	983.80	984.76	984.33	0.80	5.87	0.92	4.99	0.52	0.79	0.81	5.84	5.66	10.92	0.11
LINE 2C13	2C13	2C14	981.27	980.88	982.77	982.38	Pipe	1		1.5	Concrete	Circular	50.00	0.78	0.012	982.42	981.80	982.88	982.38	0.91	6.13	1.02	5.41	0.57	0.78	0.92	6.10	6.9	10.81	0.14
LINE 2C15	2C15	2C16	979.46	978.69	980.96	980.19	Pipe	1		1.5	Concrete	Circular	45.00	1.71	0.012	980.73	979.52	981.27	980.56	0.79	8.63	1.11	5.85	0.65	1.71	0.83	8.15	8.21	16.01	0.16
LINE 2C17	2C17	2C18	970.22	969.36	972.22	971.36	Pipe	1		2	Concrete	Circular	52.00	1.65	0.012	971.57	970.23	972.08	971.37	0.82	9.17	1.20	5.69	0.46	1.65	0.87	8.54	11.2	33.90	0.15

Inlets

Inlet I.D.	Inlet Type	Inlet Location Cntrl Chain	Inlet Location Inlet Station	Inlet Location Offset (ft)	Inlet Location LT/RT	Top/Inlet Elev (ft)	Grate L (ft)	Grate W (ft)	Grate Type	Grate P (ft)	Grate A (sf)	Tc (min)	20% AEP Inlet Q (cfs)	Intercept Capacity (cfs)	Ponded Depth Allowed (ft)	Ponded Depth Actual (ft)	*HGL Check	**Min Depth Check	Eff (%)
2B0	(TY PSL)(FG)(3X3L)(3X3G) Grate Inlet In Sag	DANIELMT	12+79.86	25.00	RT	971.30	3.00	3.00	Retioulne	12.67	4.53	13.00	2.89	6.91	0.50	0.28	OK	OK	100%

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE COMPUTATIONS

INLETS & LINKS - 5 YR

SHEET 1 OF 1

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
DESIGNED:					CR 255	
CHECKED:	X	TEXAS				
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	182

USER: ClayGann
DATE: 7/10/2024 4:28:24 PM
SCRIPT: S:\08_Projects\22011_CR255\99 - Project Standards\CR255_iplot.pen
FILE: c:\dgn\clay.gann\ms\31662\CR255_COMPS_PIPES-01.dgn

ROADSIDE DITCHES - 5YR

Link I.D.	Node I.D. US	Node I.D. DS	Invert Elev US (ft)	Invert Elev DS (ft)	Link Type	Max Depth (ft)	Shape	A (sqft)	P (ft)	R (ft)	Hyd Length (ft)	Slope (ft/ft)	Manning's "n"	H.G.L. US Elev (ft)	H.G.L. DS Elev (ft)	Unif Depth (ft)	Unif Vel (fps)	Crit Depth (ft)	Crit Vel (fps)	Crit Slope (%)	Frictn Slope (%)	Actual Depth (ft)	Actual Vel (fps)	Total Q (cfs)	Link Capacity (cfs)	Shear Stress (lbs/sf)
DITCH 1A0	1A0	1A1	1048.13	1024.95	Ditch	2	V-DITCH	1.72	4.79	0.36	925.49	0.03	0.033	1049.22	1025.71	0.76	3.62	0.77	3.52	2.34	2.53	0.76	3.62	6.24	83.04	0.57
DITCH 1A2	1A2	1A3	1024.17	1020.97	Ditch	3	V-DITCH	26.28	18.72	1.40	343.75	0.0103	0.033	1025.43	1023.93	0.90	2.59	0.77	3.52	2.34	1.03	2.96	0.24	6.24	156.15	0.90
DITCH 1A4	1A4	1A5	1020.38	1008.16	Ditch	4	V-DITCH	28.63	19.54	1.47	1295.43	0.0098	0.033	1023.65	1011.25	2.82	5.42	2.58	6.45	1.56	0.98	3.09	4.51	129	327.51	0.89
DITCH 1A6	1A6	1AB OUT	1007.27	1003.36	Ditch	5	V-DITCH	27.56	19.17	1.44	440.42	0.0094	0.033	1010.86	1006.39	3.30	5.89	3.03	6.98	1.48	0.94	3.03	6.98	192	580.96	0.84
DITCH 1B0	1B0	1B1	1007.65	1006.17	Ditch	3	V-DITCH	12.49	12.90	0.97	298.58	0.0052	0.033	1008.98	1008.21	1.20	2.25	0.92	3.84	2.19	0.53	2.04	0.77	10.5	120.64	0.31
DITCH 1B2	1B2	1B3	1005.75	1005.05	Ditch	5	V-DITCH	8.60	10.71	0.80	170.12	0.0050	0.033	1008.06	1006.74	2.15	3.24	1.69	5.22	1.80	0.51	1.69	5.22	44.9	426.82	0.25
DITCH 1C0	1C0	1C1	1048.97	1020.60	Ditch	3	V-DITCH	5.03	9.78	0.51	1258.66	0.0225	0.033	1050.32	1021.66	1.06	4.33	1.08	4.17	2.02	2.25	1.06	4.33	21.8	352.41	0.72
DITCH 1C1	1C1	1C2	1020.60	1019.50	Ditch	4.5	V-DITCH	41.99	28.24	1.49	111.78	0.0098	0.033	1022.57	1022.55	1.23	3.18	1.08	4.17	2.02	0.98	3.05	0.52	21.8	686.54	0.91
DITCH 1C2	1C2	1C3	1019.50	1011.14	Ditch	4	V-DITCH	32.18	24.72	1.30	872.82	0.0096	0.033	1022.55	1013.81	2.91	5.55	2.67	6.56	1.49	0.96	2.67	6.56	211	494.75	0.78
DITCH 1C3	1C3	1C OUT	1011.14	1002.90	Ditch	4	V-DITCH	14.06	16.34	0.86	891.48	0.0096	0.033	1013.50	1004.67	1.96	4.33	1.77	5.33	1.66	0.96	1.77	5.33	233	1567.06	0.52
DITCH 1D0	1D0	1C OUT	1007.33	1002.95	Ditch	5	V-DITCH	0.44	2.88	0.15	392.11	0.0121	0.033	1008.07	1003.26	0.37	1.60	0.31	2.25	3.01	1.21	0.31	2.25	1.64	1701.33	0.11
DITCH 2A0	2A0	2A1	1007.64	1007.26	Ditch	3	V-DITCH	7.74	10.16	0.76	72.01	0.0065	0.033	1009.26	1008.87	1.42	2.81	1.15	4.29	2.05	0.66	1.61	2.19	16.9	123.96	0.31
DITCH 2A2	2A2	2A3	1006.77	1003.04	Ditch	3	V-DITCH	11.38	12.32	0.92	630.20	0.0062	0.033	1008.43	1004.99	1.44	2.74	1.15	4.29	2.05	0.62	1.95	1.49	16.9	120.96	0.36
DITCH 2A4	2A4	2A5	1002.70	998.94	Ditch	3	V-DITCH	7.49	9.99	0.75	274.00	0.0152	0.033	1004.74	1000.52	1.59	4.62	1.54	4.97	1.86	1.53	1.58	4.71	35.2	189.78	0.71
DITCH 2A6	2A6	2A7	998.00	994.07	Ditch	3	V-DITCH	10.15	11.64	0.87	266.00	0.0168	0.033	1000.25	995.91	1.66	4.97	1.63	5.12	1.82	1.68	1.84	4.02	40.8	199.13	0.91
DITCH 2A8	2A8	2A9	993.11	989.73	Ditch	3	V-DITCH	10.76	11.98	0.90	237.00	0.0168	0.033	995.54	991.62	1.72	5.11	1.70	5.22	1.80	1.69	1.89	4.20	45.1	199.47	0.94
DITCH 2C0	2C0	2C1	1007.50	1004.03	Ditch	2	V-DITCH	1.86	5.95	0.31	666.32	0.0053	0.033	1007.99	1004.67	0.43	1.16	0.31	2.23	2.99	0.52	0.64	0.51	2.73	169.86	0.10
DITCH 2C2	2C2	2C3	1003.63	994.06	Ditch	3	V-DITCH	1.94	6.07	0.32	635.02	0.0156	0.033	1004.32	994.72	0.35	1.74	0.31	2.22	2.97	1.55	0.66	0.49	2.73	859.51	0.31
DITCH 2C4	2C4	2C5	992.50	987.35	Ditch	3	V-DITCH	2.96	7.50	0.39	430.05	0.0126	0.033	993.22	988.16	0.41	1.76	0.35	2.39	2.84	1.26	0.81	0.46	3.91	772.51	0.31
DITCH 2C8	2C8	2C9	986.25	984.10	Ditch	3	V-DITCH	3.95	8.66	0.46	298.00	0.0078	0.033	987.06	985.04	0.60	1.77	0.48	2.78	2.58	0.78	0.94	0.73	4.8	348.76	0.22
DITCH 3A0	3A0	3A1	966.91	965.33	Ditch	3	V-DITCH	2.62	5.91	0.44	166.85	0.0101	0.033	967.94	966.26	0.86	2.49	0.74	3.44	2.37	1.00	0.93	2.13	5.58	154.63	0.28
DITCH 3A2	3A2	3A3	964.73	964.12	Ditch	3	V-DITCH	3.79	7.11	0.53	82.00	0.0100	0.033	965.83	965.24	0.86	2.49	0.74	3.44	2.37	1.00	1.12	1.47	5.58	153.82	0.33
DITCH 3A4	3A4	3A OUT	963.51	960.95	Ditch	3	V-DITCH	2.10	5.29	0.40	257.34	0.0116	0.033	964.92	961.79	0.95	2.84	0.84	3.67	2.28	1.16	0.84	3.67	7.69	165.81	0.29
DITCH 3B0	3B0	3A OUT	963.60	959.85	Ditch	4	V-DITCH	2.19	5.41	0.41	475.97	0.0084	0.033	964.94	960.71	1.03	2.57	0.86	3.71	2.26	0.85	0.86	3.71	8.14	304.36	0.21
DITCH 3C4	3C4	3CD OUT	960.66	958.90	Ditch	2	V-DITCH	0.27	2.26	0.12	139.55	0.0136	0.033	961.10	959.14	0.29	1.44	0.24	1.99	3.24	1.36	0.24	1.99	1.25	220.05	0.10
DITCH 3D1	3D1	3D2	961.00	960.18	Ditch	3	V-DITCH	1.18	4.74	0.25	184.00	0.0050	0.033	961.53	960.69	0.40	1.08	0.28	2.15	3.08	0.49	0.51	0.66	1.83	394.05	0.08
DITCH 3D3	3D3	3CD OUT	959.73	958.88	Ditch	3	V-DITCH	0.49	3.06	0.16	194.58	0.0046	0.033	960.26	959.21	0.47	1.15	0.33	2.30	2.90	0.46	0.33	2.30	2.66	377.52	0.05
DITCH 4A0	4A0	4A1	963.60	955.86	Ditch	3	V-DITCH	10.65	11.92	0.89	663.15	0.0119	0.033	965.34	957.74	1.44	3.82	1.31	4.59	1.96	1.20	1.88	2.22	23.6	167.90	0.66
DITCH 4A2	4A2	4A OUT	955.00	953.36	Ditch	4	V-DITCH	3.70	7.02	0.53	48.13	0.0474	0.033	957.03	954.47	1.11	6.39	1.31	4.59	1.96	4.74	1.11	6.38	23.6	720.85	1.56
DITCH 4B0	4B0	4A OUT	955.23	954.60	Ditch	4	V-DITCH	0.81	3.29	0.25	134.48	0.0047	0.033	955.98	955.12	0.72	1.51	0.52	2.88	2.65	0.47	0.52	2.88	2.34	226.74	0.07
DITCH 4C0	4C0	4C1	961.47	960.25	Ditch	3	V-DITCH	0.25	2.18	0.11	100.82	0.0135	0.033	961.88	960.49	0.27	1.36	0.22	1.91	3.36	1.36	0.24	1.74	0.87	552.93	0.10
DITCH 4C2	4C2	4C OUT	958.70	953.00	Ditch	3	V-DITCH	0.92	4.17	0.22	437.71	0.0135	0.033	959.43	953.45	0.51	2.08	0.45	2.70	2.71	1.35	0.45	2.70	2.47	272.96	0.19
DITCH 4D0	4D0	4C OUT	955.33	953.00	Ditch	3	V-DITCH	0.22	2.05	0.11	158.21	0.0147	0.033	955.62	953.22	0.26	1.37	0.22	1.87	3.37	1.47	0.22	1.87	0.42	284.86	0.10
DITCH 5A0	5A0	5A1	955.27	954.97	Ditch	4	V-DITCH	0.83	3.33	0.25	65.82	0.0054	0.033	956.02	955.50	0.67	1.54	0.49	2.83	2.73	0.54	0.53	2.48	2.06	243.95	0.08
DITCH 5A2	5A2	5A3	954.62	948.80	Ditch	3	V-DITCH	1.48	4.45	0.33	409.79	0.0150	0.033	955.49	949.50	0.55	2.25	0.49	2.82	2.72	1.49	0.70	1.39	2.06	188.20	0.31
DITCH 5A4	5A4	5AB OUT	946.82	936.80	Ditch	3	V-DITCH	1.58	4.59	0.34	487.93	0.0232	0.033	948.89	937.53	0.73	3.39	0.73	3.42	2.39	2.33	0.73	3.42	5.41	234.33	0.50
DITCH 5B0	5B0	5B1	964.50	961.47	Ditch	4	V-DITCH	5.33	8.43	0.63	207.03	0.0154	0.033	965.87	962.80	1.09	3.60	1.03	4.07	2.12	1.54	1.33	2.43	12.9	411.33	0.61
DITCH 5B2	5B2	5B3	959.30	939.22	Ditch	3	V-DITCH	19.11	15.96	1.20	1075.88	0.0192	0.033	961.04	941.74	1.05	3.92	1.03	4.07	2.12	1.92	2.52	0.68	12.9	212.98	1.43
DITCH 5C0	5C0	5C1	955.62	950.10	Ditch	3	V-DITCH	0.77	3.82	0.20	444.85	0.0127	0.033	956.26	950.51	0.48	1.92	0.41	2.58	2.80	1.27	0.41	2.58	1.99	264.65	0.16
DITCH 5C2	5C2	5C3	947.52	944.28	Ditch	3	V-DITCH	0.76	3.80	0.20	133.41	0.0288	0.033	948.54	944.69	0.41	2.61	0.41	2.58	2.80	2.88	0.41	2.61	1.99	398.53	0.36
DITCH 5C4	5C4	5C5	942.16	940.14	Ditch	3	V-DITCH	1.44	5.24	0.28	100.80	0.0253	0.033	943.18	940.71	0.48	2.72	0.48	2.76	2.65	2.54	0.57	1.94	2.81	373.47	0.44
DITCH 5C6	5C6	5CD OUT	937.31	934.04	Ditch	3	V-DITCH	1.43	5.22	0.27	182.97	0.0242	0.033	939.05	934.60	0.57	2.97	0.56	3.01	2.50	2.42	0.56	3.01	4.32	365.37	0.42
DITCH 5D0	5D0	5D1	963.70	954.24	Ditch	3	V-DITCH	0.83	3.97	0.21	428.18	0.0226	0.033	964.40	954.67	0.44	2.45	0.43	2.63	2.74	2.27	0.43	2.63	2.18	353.27	0.30
DITCH 5D2	5D2	5D3	947.74	938.96	Ditch	3	V-DITCH	3.97	8.69	0.46	510.23	0.0179	0.033	948.59	939.90	0.46	2.24	0.43	2.63	2.74	1.80	0.94	0.55	2.18	314.46	0.51
DITCH 5D4	5D4	5CD OUT	938.17	934.04	Ditch	3	V-DITCH	1.65	5.59	0.29	240.60	0.0213	0.033	939.80	934.64	0.62	2.96	0.60	3.12	2.45	2.13	0.60	3.12	5.14	342.53	0.39
DITCH 6A0	6A0	6A1	964.76	946.36	Ditch	4.8	V-DITCH	1.92	5.06	0.38	796.39	0.0231	0.033	965.58	947.16	0.67	3.18	0.66	3.25	2.47	2.32	0.80	2.20	4.22	818.79	0.55
DITCH 6A1	6A1	6A OUT	946.36	945.22	Ditch	4.8	V-DITCH	1.30	4.16	0.31	108.06	0.0105	0.033	947.16	945.88	0.77	2.37	0.66	3.26	2.47	1.06	0.66	3.26	4.23	553.29	0.21
DITCH 6B0	6B0	6B OUT	942.77	941.56	Ditch	4	V-DITCH	0.48	2.54	0.19	235.73	0.0051	0.033	943.35	941.96	0.55	1.33	0.40	2.54	2.92	0.52	0.40	2.54	1.23	237.34	0.06
DITCH 6C0	6C0	6C1	963.66	962.24	Ditch	3	V-DITCH	0.38	2.70	0.14	140.77	0.0109	0.033	964.14	962.53	0.36	1.47	0.29	2.18	3.16	1.10	0.29	2.18	0.84	245.08	0.10
DITCH 6C2	6C2	6C3	960.50	960.00	Ditch	3	V-DITCH	0.38	2.70	0.14	57.67	0.0136	0.033	961.13	960.29	0.34	1.59	0.29	2.18	3.16	1.36	0.29	2.18	0.84	274.10	0.12
DITCH 6C4	6C4	6C5	957.86	944.88	Ditch	3	V-DITCH	0.57	3.29	0.17	420.75	0.0308	0.033	958.24	945.24	0.36	2.46	0.36	2.41	2.92	3.08	0.36	2.46	1.4	412.29	0.33
DITCH 6C6	6C6	6C OUT	942.91	941.00	Ditch	3	V-DITCH	1.15	4.68	0.25	185.86	0.0109	0.033	943.64	941.51	0.60	2.06	0.51	2.85	2.59	1.09	0.51	2.85	3.29	244.98	0.17
DITCH 6D2	6D2	6D-OUT	945.00	943.88	Ditch	3	V-DITCH	0.96	4.26	0.22	70.93	0.0185	0.033	945.66	944.34	0.46	2.23	0.43	2.60	2.81	1.86	0.46	2.23	1.42	209.41	0.26
DITCH 7A0	7A0	7AB OUT	942.80	938.00	Ditch	3	V-DITCH	0.93	3.51	0.26	532.69	0.0090	0.033	943.54	938.56	0.68	2.01	0.56	2.99	2.61	0.91	0.56	2.99	2.77	146.01	0.15
DITCH 7B0	7B0	7AB OUT	941.60	936.10	Ditch	3	V-DITCH	1.09	3.80	0.29	611.34	0.0090	0.033	942.40	936.70	0.73	2.10	0.60	3.11	2.54	0.89	0.60	3.11	3.38	145.90	0.16
DITCH 8A0	8A0	8A OUT	955.00	943.00	Ditch	3.5	V-DITCH	1.56	4.56	0.34	550.35	0.0218	0.033	955.90	943.72	0.73	3.29	0.72	3.41	2.39	2.18	0.72	3.41	5.32	342.62	0.47
DITCH 9A0	9A0	9A1	954.15	953.03	Ditch	3	V-DITCH	0.48	2.53	0.19	202.90	0.0058	0.033	954.72	953.43	0.49	1.32	0.36	2.40	2.89	0.58	0.40	1.97	1.26	158.83	0.07
DITCH 9A2	9A2	9A3	951.00	944.52	Ditch	3	V-DITCH	0.82	3.31	0.25	254.86	0.0281	0.033	952.21	945.04	0.52	3.02	0.53	2.92	2.57	2.80	0.52	3.02	3.3	348.77	0.43
DITCH 2C10	2C10	2C11	983.60	983.41	Ditch	3	V-DITCH	4.15	8.88	0.47	46.00	0.0076	0.033	984.49	984.37	0.63	1.82	0.51	2.85	2.54	0.77	0.96	0.79	5.47	345.11	0.22
DITCH 2C12	2C12	2C13	982.91	981.36	Ditch	3	V-DITCH	5.10	9.84	0.52	222.00	0.0077	0.033	983.68	982.42	0.55	1.68	0.44	2.66	2.65	0.77	1.06	0.45	5.66	511.21	0.25
DITCH 2C14	2C14	2C15	980.81	979.62	Ditch	3	V-DITCH	5.58	10.29	0.54	157.01	0.0087	0.033	981.60	980.73	0.55	1.77	0.45	2.68	2.63	0.87	1.11	0.43	6.9	643.99	0.30
DITCH 2C16	2C16	2C17	978.52	970.45	Ditch	3	V-DITCH	5.67	10.38	0.55	509.21	0.0166	0.033	979.55	971.57	0.56	2.48	0.52	2.89	2.50	1.67	1.12	0.62	8.21	716.48	0.57
DITCH 2C18	2C18	2C OUT	969.13	963.90	Ditch	3	V-DITCH	1.37	5.09	0.27	165.74	0.0344	0.033	970.25	964.45	0.55	3.52	0.59	3.08	2.40	3.44	0.55	3.52	11.2	1029.72	0.57
DITCH 2A10	2A10	2A OUT	988.74	982.25	Ditch	3	V-DITCH	9.22	11.09	0.83	503.44	0.0135	0.033	990.99	984.00	1.85	4.79	1.75	5.31	1.78	1.35	1.75	5.31	49	178.81	0.70

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255 DRAINAGE COMPUTATIONS

DITCHES - 5 YR

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 183

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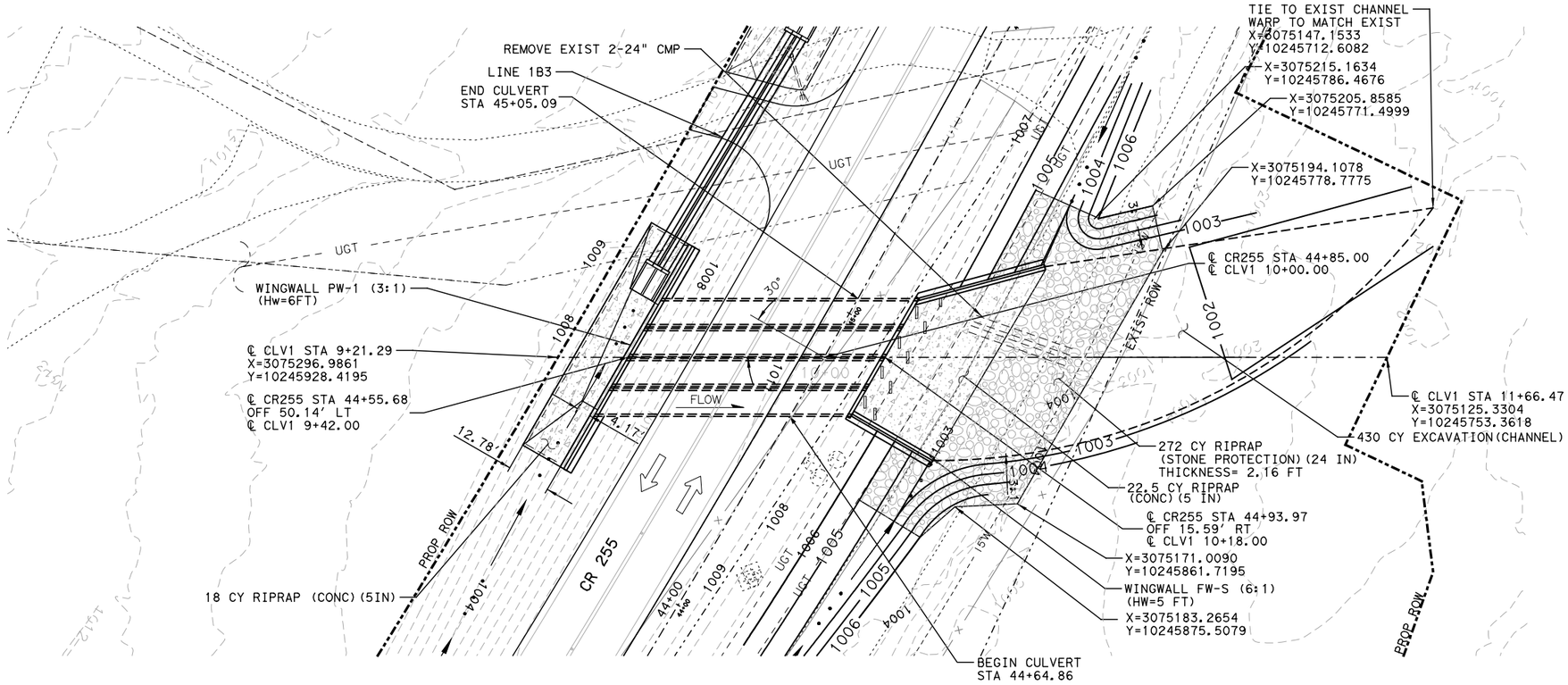


0 20 40
SCALE: 1" = 40'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW

HYDRAULIC DATA

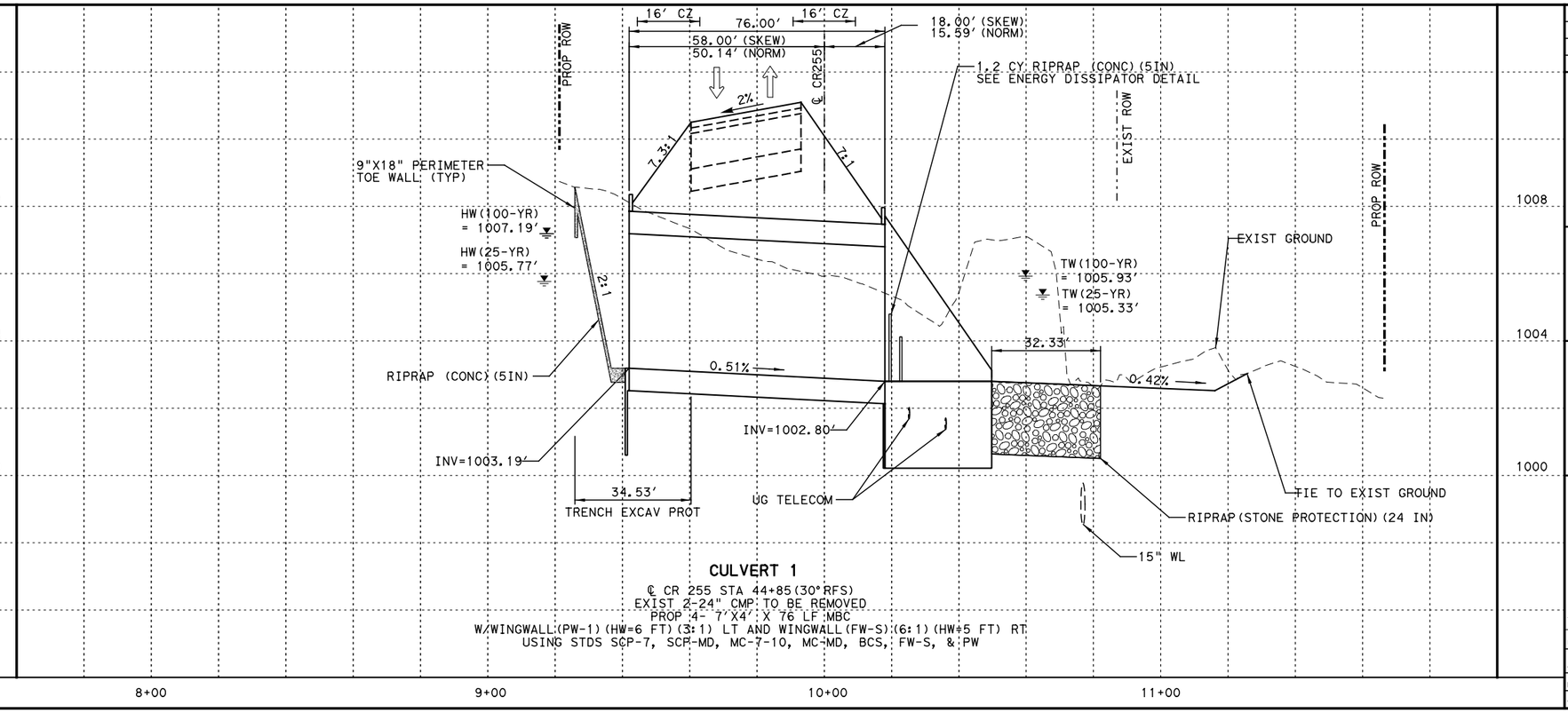
25-YR ANALYSIS:
D.A. = 213.3 AC.
Q = 659 CFS
ALLOWABLE HW = 1009.77'
OUTLET VELOCITY = 10.39 FPS
Q = 0 CFS (OVER THE ROAD)

100-YR ANALYSIS:
Q = 1030 CFS
OUTLET VELOCITY = 13.68 FPS
Q = 0 CFS (OVER THE ROAD)

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION.
2. SEE HYDRAULIC DATA SHEETS FOR RESULTS OF HEC-RAS ANALYSIS.
3. EXIST CONTOURS SHOWN AT 1' INTERVAL.

NBI# 14-246-AA02-89-003



CULVERT 1
℄ CR 255 STA 44+85(30°RFS)
EXIST 2-24" CMP TO BE REMOVED
PROP 4- 7'X4' X 76 LF MBC
W/WINGWALL(PW-1)(HW=6 FT)(3:1) LT AND WINGWALL(FW-S)(6:1)(HW=5 FT) RT
USING STDS SCP-7, SCP-MD, MC-7-10, MC-MD, BCS, FW-S, & PW

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
BRIDGE CLASS CULVERT LAYOUT

CULVERT 1
STA 44+85

H SCALE: 1" = 40'
V SCALE: 1" = 4'

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	184

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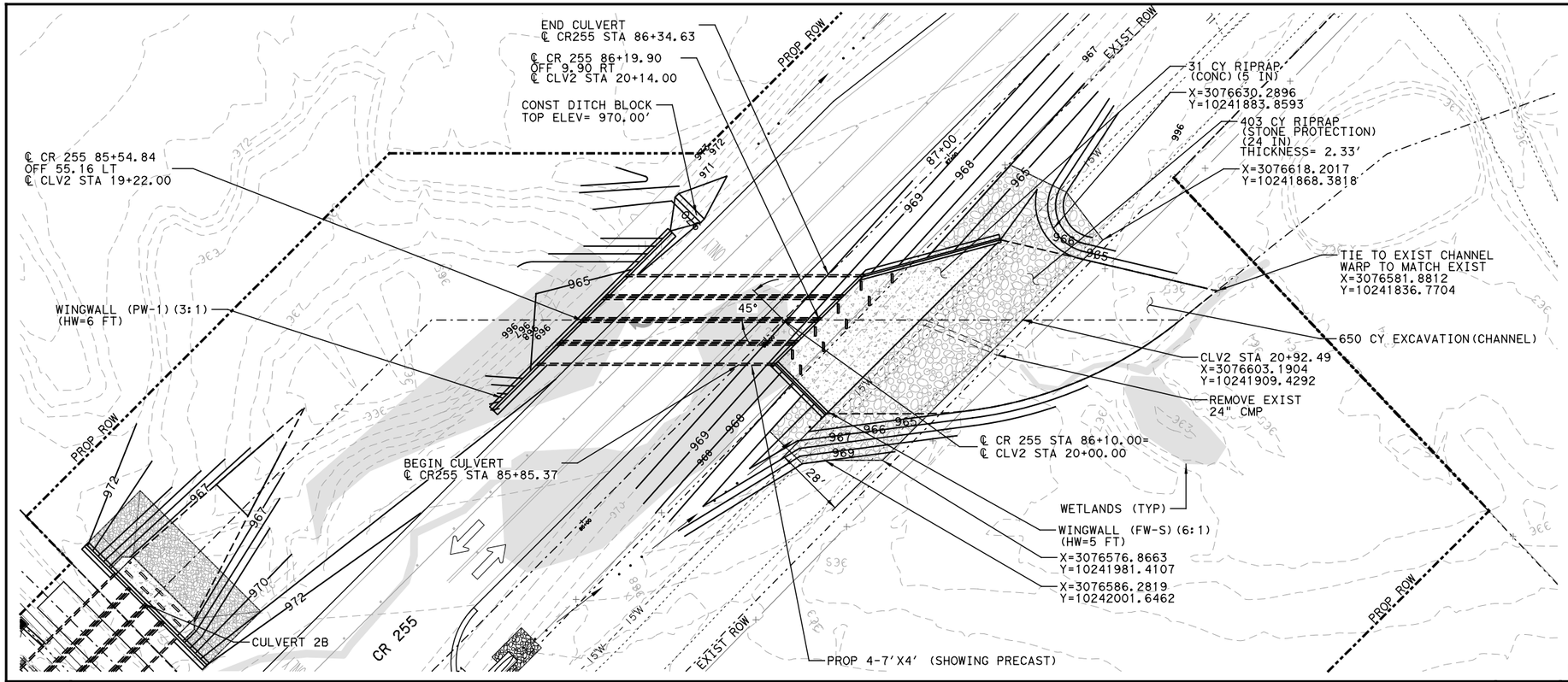


0 25 50

SCALE: 1" = 50'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW

HYDRAULIC DATA

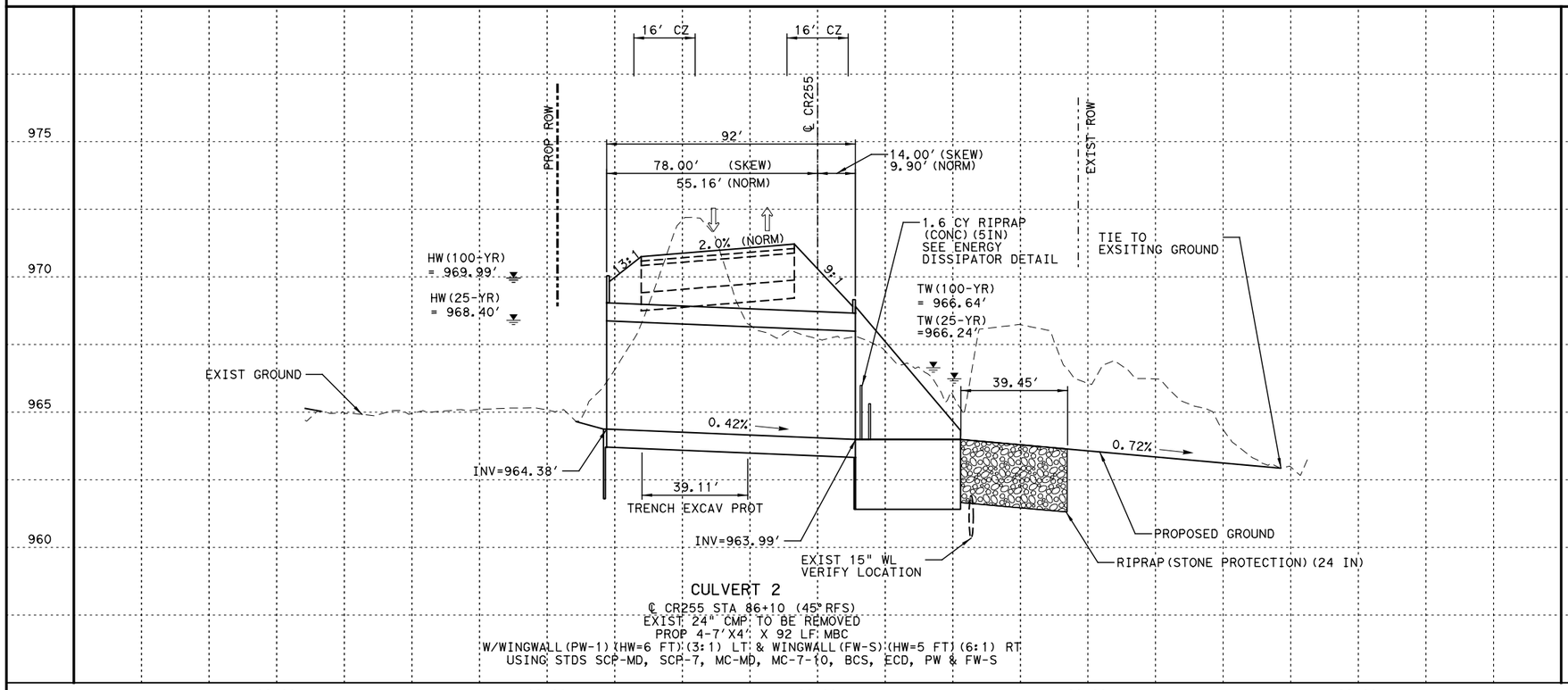
25-YR ANALYSIS:
D.A. = 216.32 AC.
Q = 669 CFS
ALLOWABLE HW = 970.00'
OUTLET VELOCITY = 9.78 FPS
Q = 0 CFS (OVER THE ROAD)

100-YR ANALYSIS:
Q = 1049 CFS
OUTLET VELOCITY = 11.15 FPS
Q = 0 CFS (OVER THE ROAD)

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION.
2. EXIST CONTOURS SHOWN AT 1' INTERVALS
3. REFER TO THE HYDRAULIC DATA SHEETS FOR RESULTS OF HEC-RAS ANALYSIS.

NBI# 14-246-AA02-89-004



CULVERT 2

℄ CR255 STA 86+10 (45° RFS)
EXIST 24" CMP TO BE REMOVED
PROP 4-7'X4' X 92 LF MBC
W/WINGWALL (PW-1) (HW=6 FT) (3:1) LT & WINGWALL (FW-S) (HW=5 FT) (6:1) RT
USING STDS SCP-MD, SCP-7, MC-MD, MC-7-10, BCS, ECD, PW & FW-S

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
BRIDGE CLASS
CULVERT LAYOUT

CULVERT 2
STA 86+10

H SCALE: 1" = 50'
V SCALE: 1" = 5'

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	185

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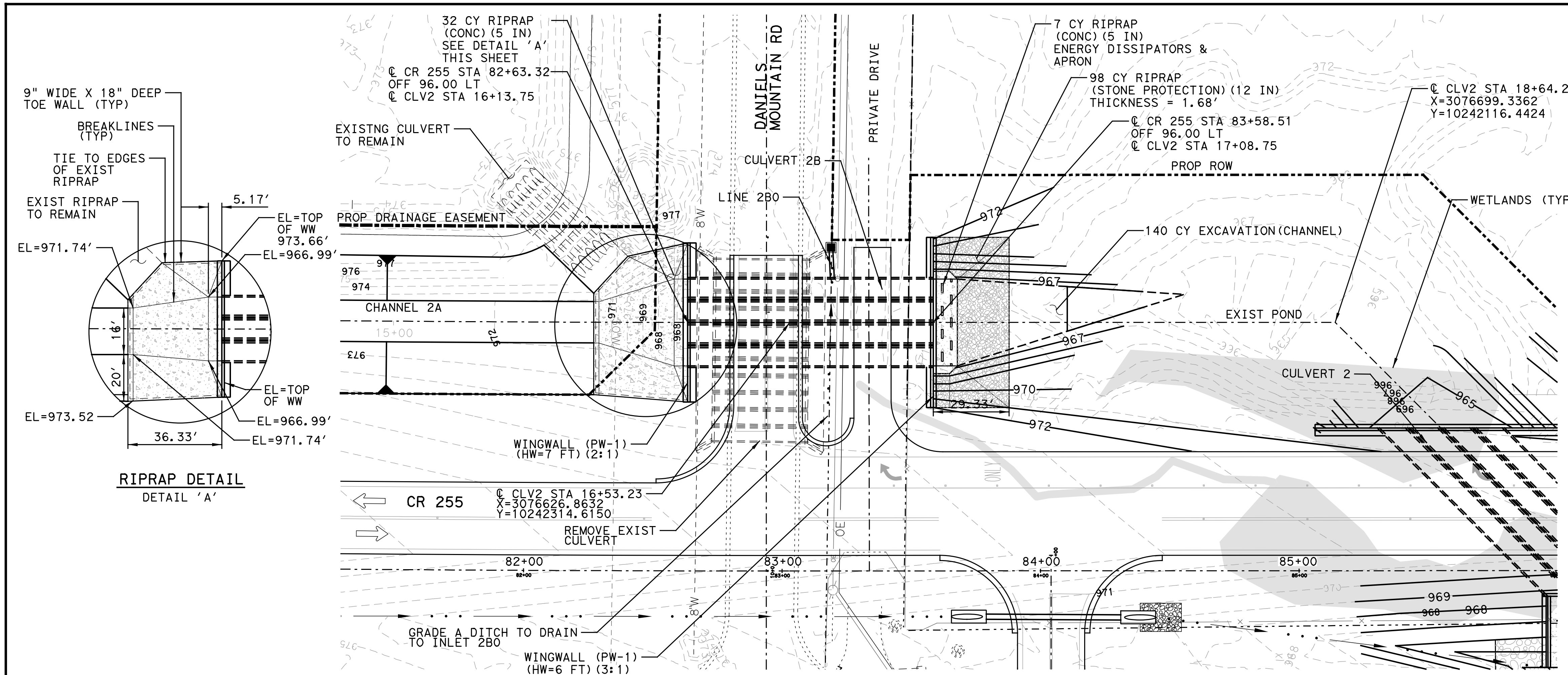


LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- EXIST UG UTILITY
- EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW

HYDRAULIC DATA

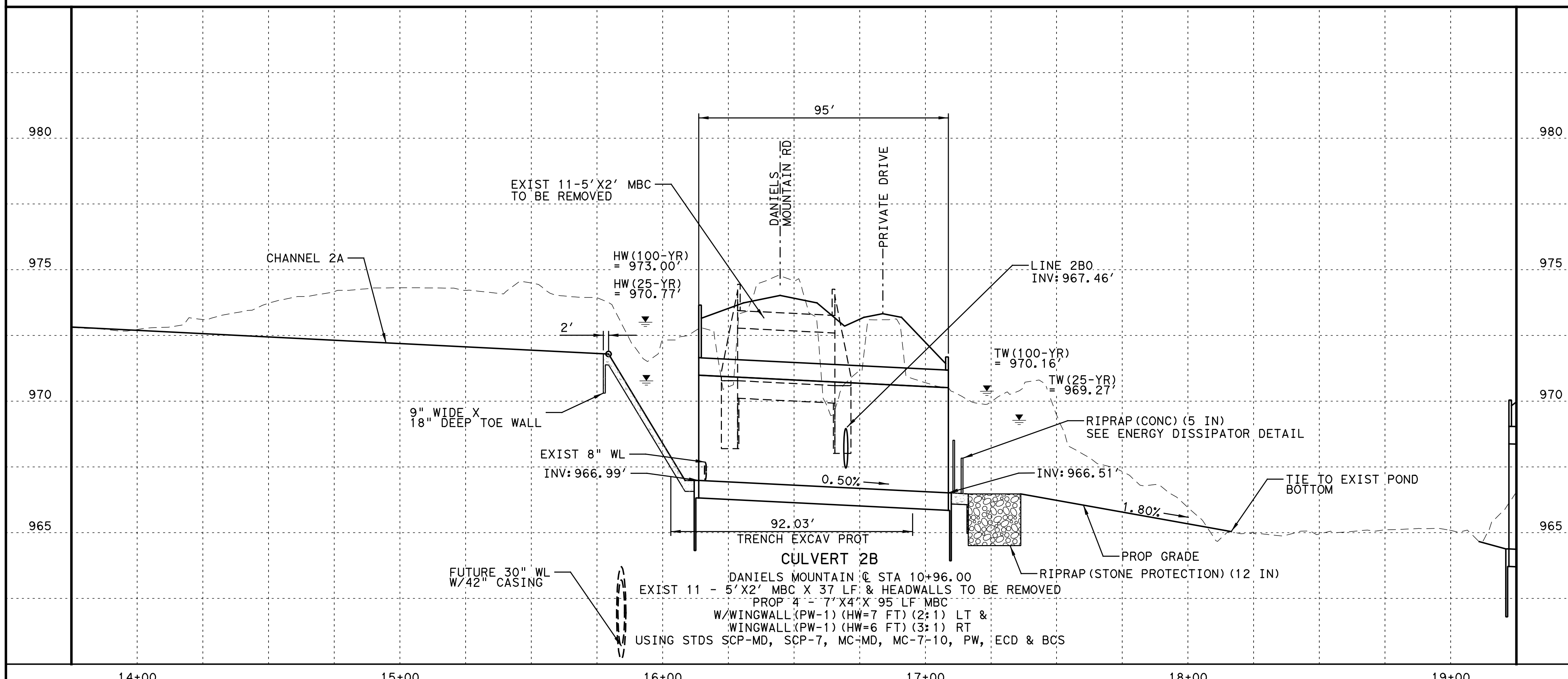
25-YR ANALYSIS:
D.A. = 216.32 AC.
Q = 656 CFS
ALLOWABLE HW = 974.15'
OUTLET VELOCITY = 10.42 FPS
Q = 0 CFS (OVER THE ROAD)

100-YR ANALYSIS:
Q = 1031 CFS
OUTLET VELOCITY = 14.29 FPS
Q = 0 CFS (OVER THE ROAD)

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION.
2. EXIST CONTOURS SHOWN AT 1' INTERVALS
3. REFER TO THE HYDRAULIC DATA SHEETS FOR RESULTS OF HEC-RAS ANALYSIS.

NBI# 14-246-AA02-89-006



CULVERT 2B
DANIELS MOUNTAIN ℄ STA 10+96.00
EXIST 11 - 5'X2' MBC X 37 LF & HEADWALLS TO BE REMOVED
PROP 4 - 7'X4'X 95 LF MBC
W/WINGWALL (PW-1) (HW=7 FT) (2:1) LT &
WINGWALL (PW-1) (HW=6 FT) (3:1) RT
USING STDS SCP-MD, SCP-7, MC-MD, MC-7-10, PW, ECD & BCS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

DEPARTMENT OF INFRASTRUCTURE
WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
BRIDGE CLASS CULVERT LAYOUT
CULVERT 2B
DANIELS MOUNTAIN STA 10+96

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255

DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	186

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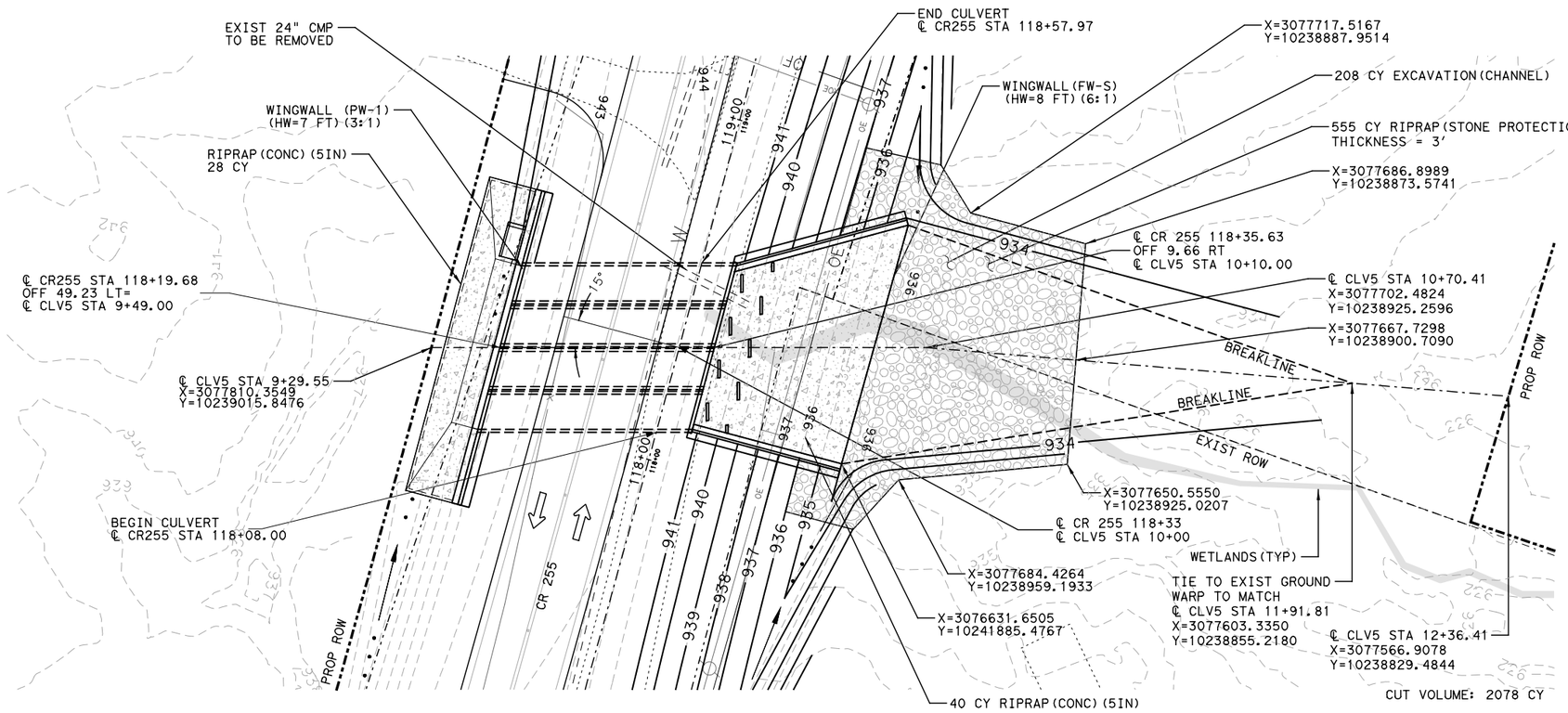


0 20 40

SCALE: 1" = 40'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W EXIST UG UTILITY
- OT EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW

HYDRAULIC DATA

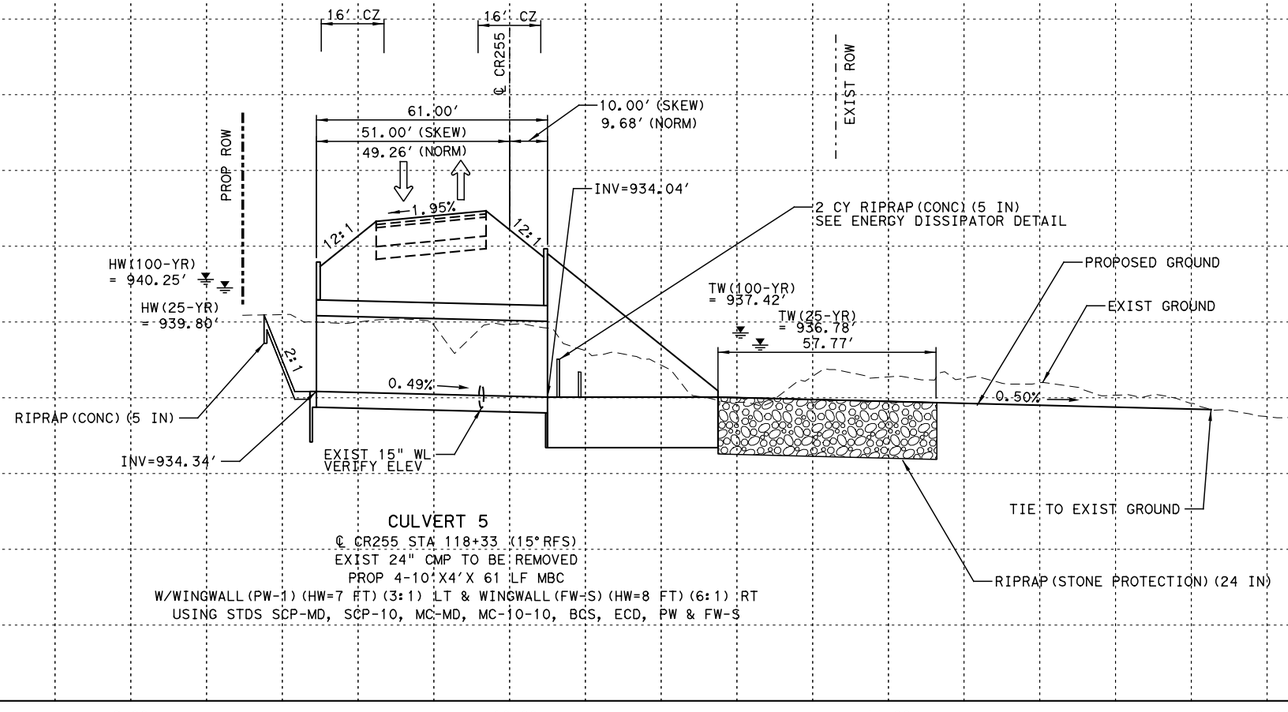
25-YR ANALYSIS:
D.A. = 374.93 AC.
Q = 994 CFS
ALLOWABLE HW = 943.31'
OUTLET VELOCITY = 10.66 FPS
Q = 0 CFS (OVER THE ROAD)

100-YR ANALYSIS:
Q = 1560 CFS
OUTLET VELOCITY = 13.65 FPS
Q = 0 CFS (OVER THE ROAD)

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION.
2. EXIST CONTOURS SHOWN AT 1' INTERVALS
3. REFER TO THE HYDRAULIC DATA SHEETS FOR RESULTS OF HEC-RAS ANALYSIS.

NBI# 14-246-AA02-89-005



CULVERT 5
℄ CR255 STA 118+33 (15° RFS)
EXIST 24" CMP TO BE REMOVED
PROP 4-10'X4'X 61 LF MBC
W/WINGWALL (PW-1) (HW=7 FT) (3:1) LT & WINGWALL (FW-S) (HW=8 FT) (6:1) RT
USING STDS SCP-MD, SCP-10, MC-MD, MC-10-10, BCS, ECD, PW & FW-S

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
BRIDGE CLASS
CULVERT LAYOUT

CULVERT 5
STA 118+33

H SCALE: 1" = 40'
V SCALE: 1" = 8'

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	187

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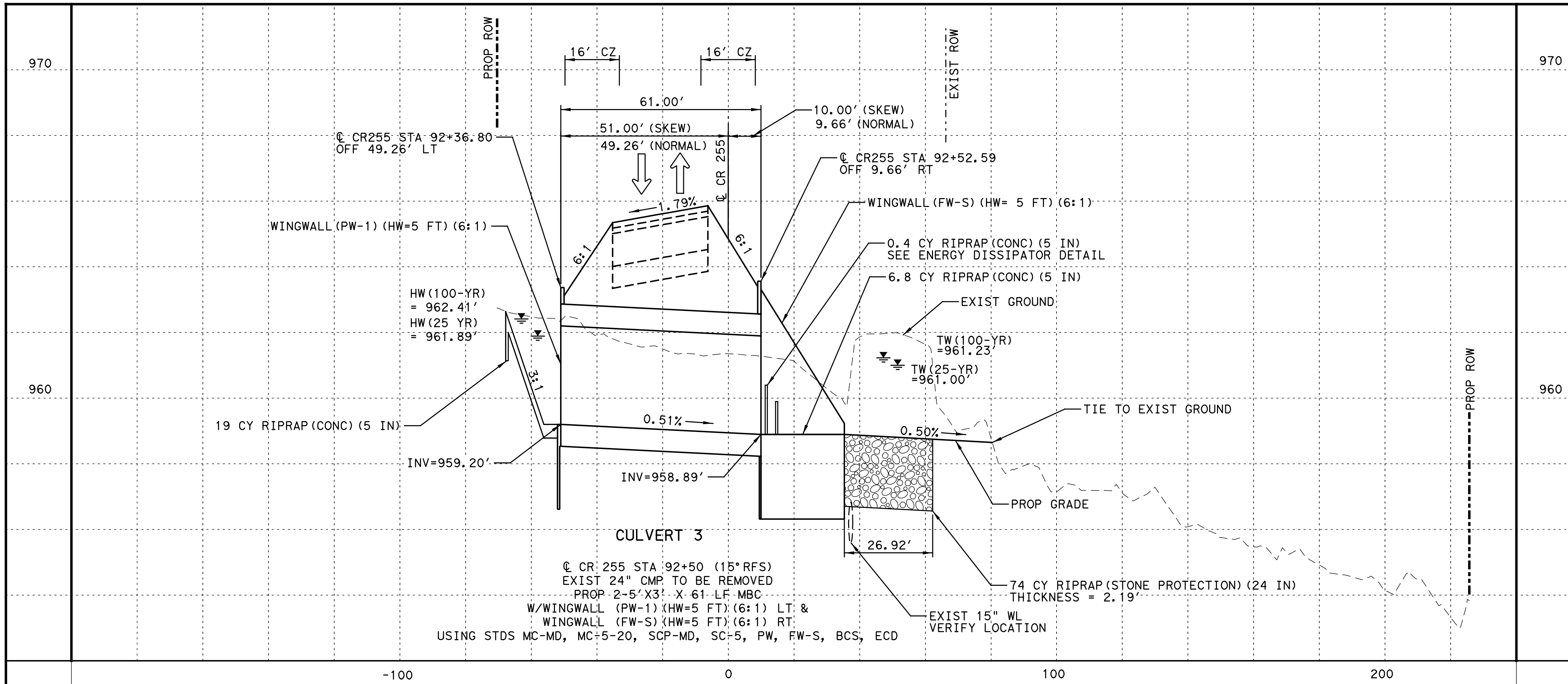

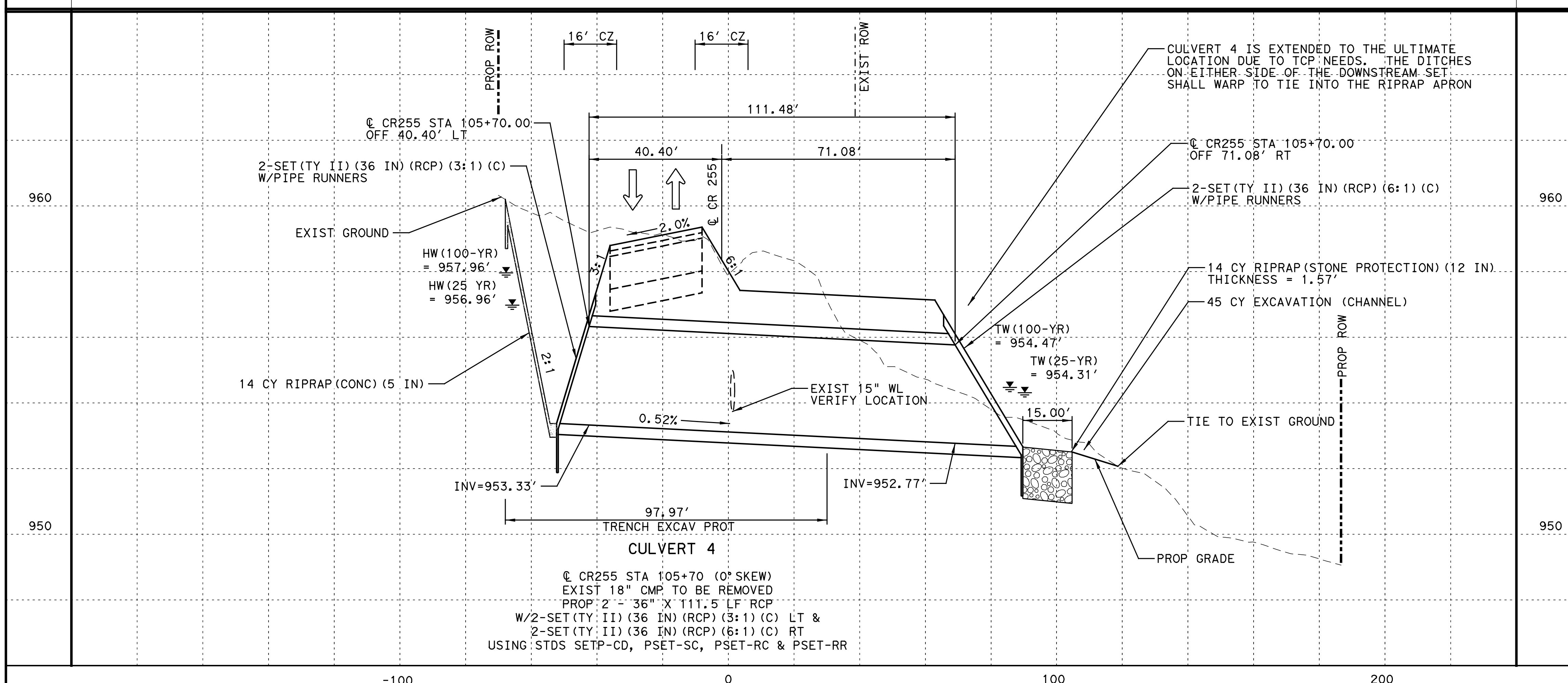

0 20 40

SCALE: 1" = 40'

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION FOR BOX CULVERTS.
2. REFER TO DITCH PLAN & PROFILE SHEETS FOR ADDITIONAL DRAINAGE DETAILS.
3. REFER TO THE CULVERT COMPUTATION SHEETS FOR HYDRAULIC DATA.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

CULVERT PROFILES

CULVERT 3 - STA 92+50
CULVERT 4 - STA 105+70

H SCALE: 1" = 40'
V SCALE: 1" = 4'

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255

	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
DRAWN:						
CHECKED:	XX	XX	XX	XX	XX	188

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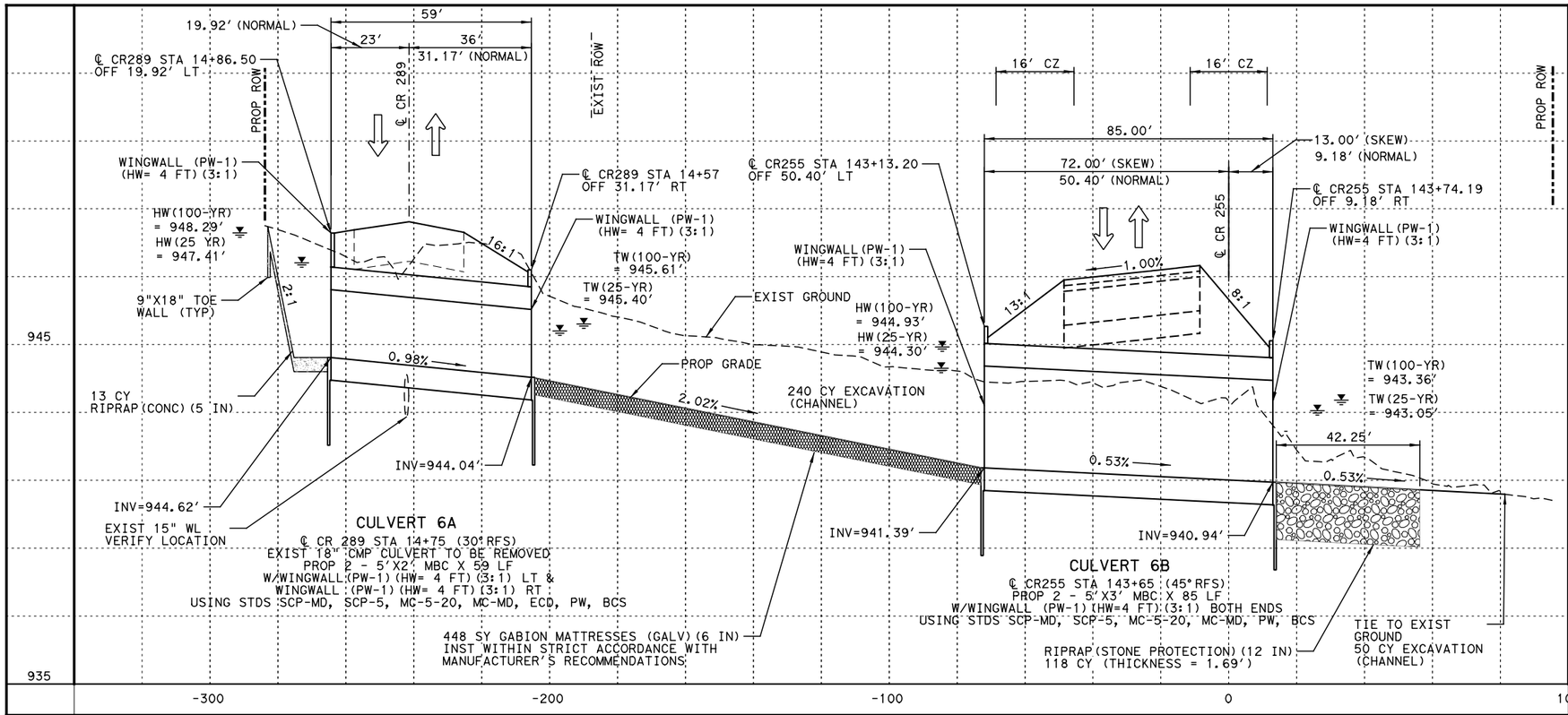

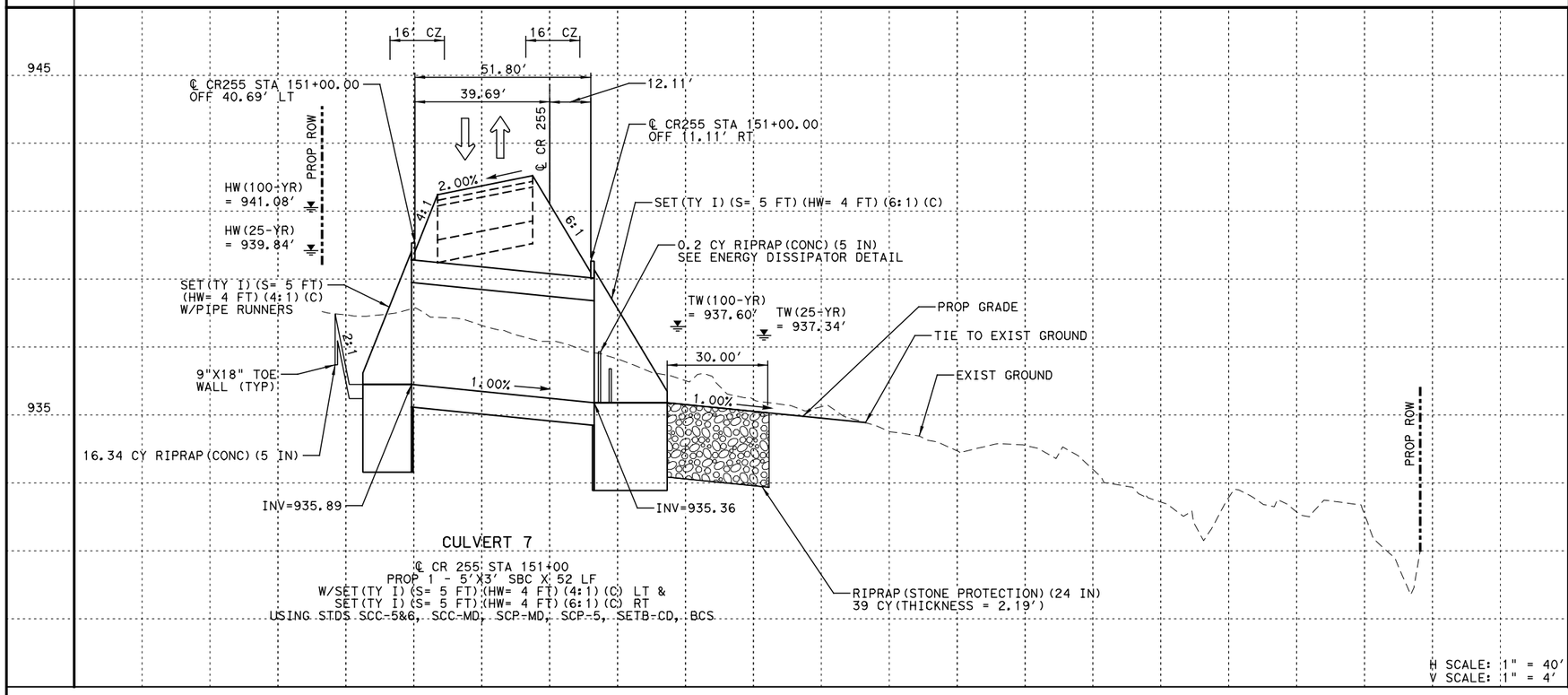

0 20 40

SCALE: 1" = 40'

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION FOR BOX CULVERTS.
2. REFER TO DITCH PLAN & PROFILE SHEETS FOR ADDITIONAL DRAINAGE DETAILS.
3. REFER TO THE CULVERT COMPUTATION SHEETS FOR HYDRAULIC DATA.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

CULVERT PROFILES

CULVERT 6A - CR289 STA 14+75
CULVERT 6B - STA 143+65
CULVERT 7 - STA 151+00

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	189

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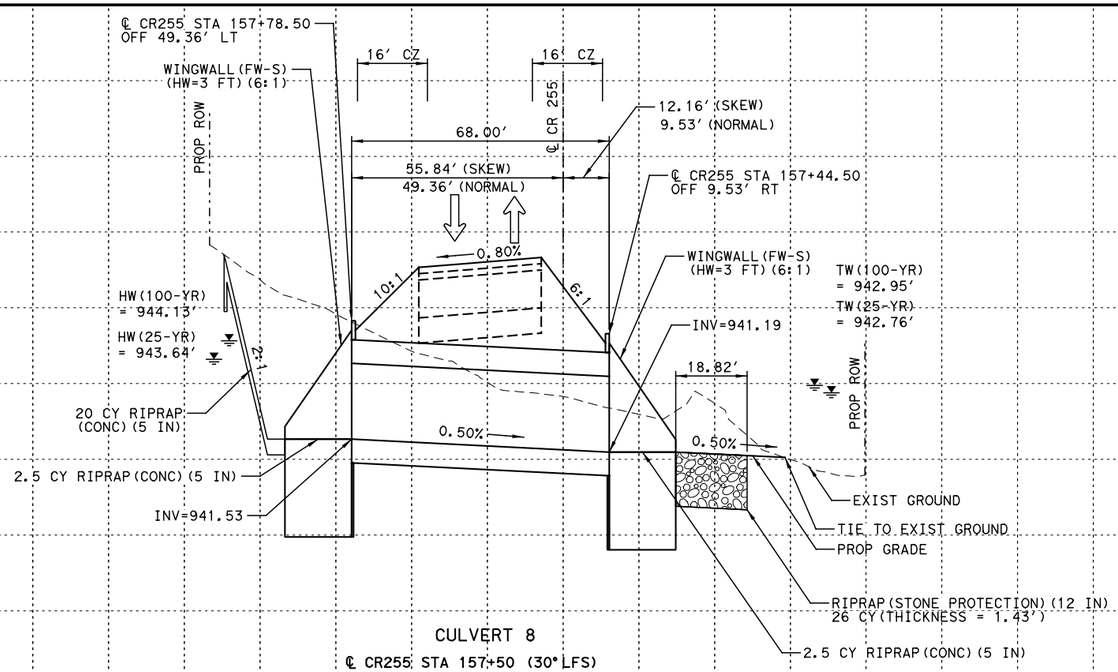

CULVERT 8

℄ CR255 STA 157+50 (30° LFS)
PROP 1 - 4'X2' SBC X 68 LF
W/WINGWALL (FW-S) (HW= 3 FT) (6:1) BOTH ENDS
USING STDS SCC-3&4, SCC-MD, SCP-MD, SCP-4, FW-S & BCS

0 20 40
SCALE: 1" = 40'

NOTES:

1. REFER TO BOX CULVERT SUPPLEMENT (BCS) SHEET FOR ADDITIONAL INFORMATION FOR BOX CULVERTS.
2. REFER TO DITCH PLAN & PROFILE SHEETS FOR ADDITIONAL DRAINAGE DETAILS.
3. REFER TO THE CULVERT COMPUTATION SHEETS FOR HYDRAULIC DATA.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
CULVERT PROFILES
CULVERT 8 - STA 157+50

H SCALE: 1" = 40'
V SCALE: 1" = 4'

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	190

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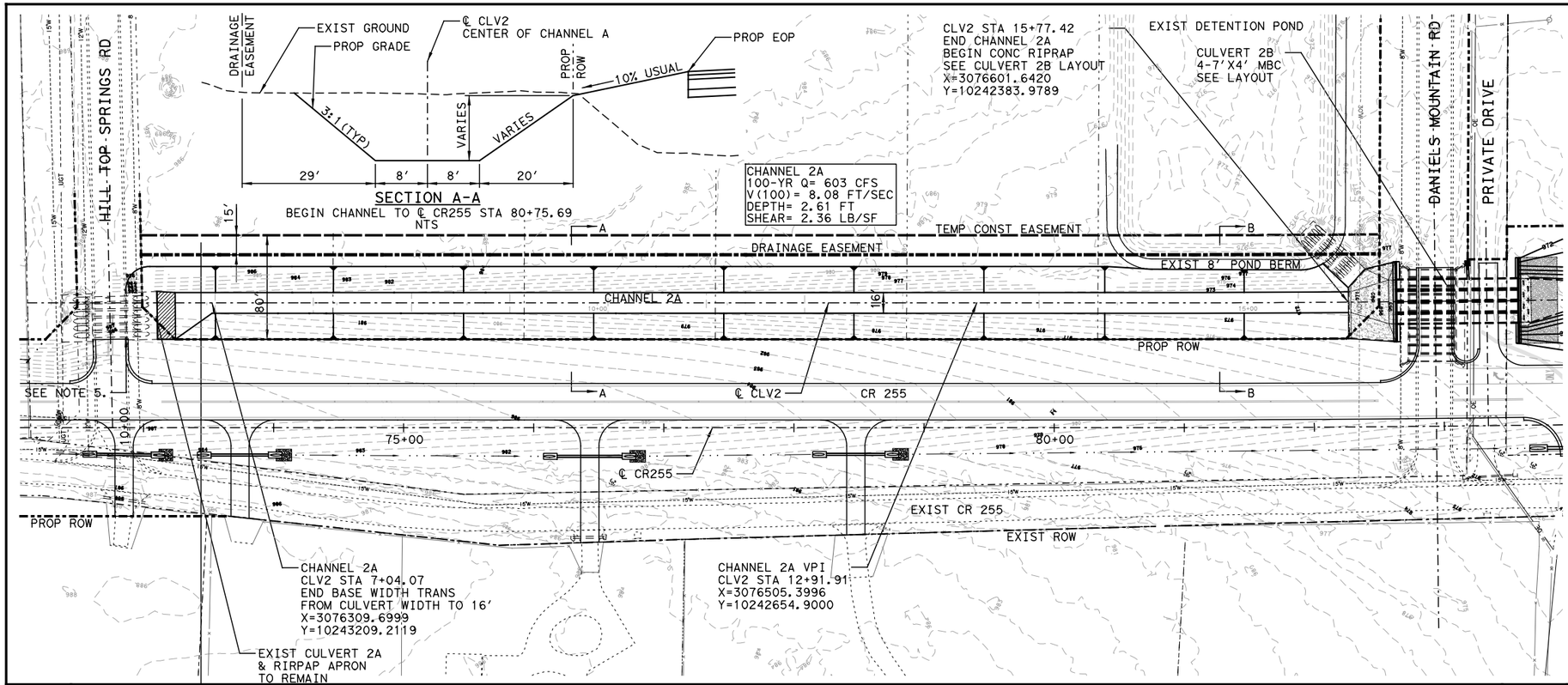

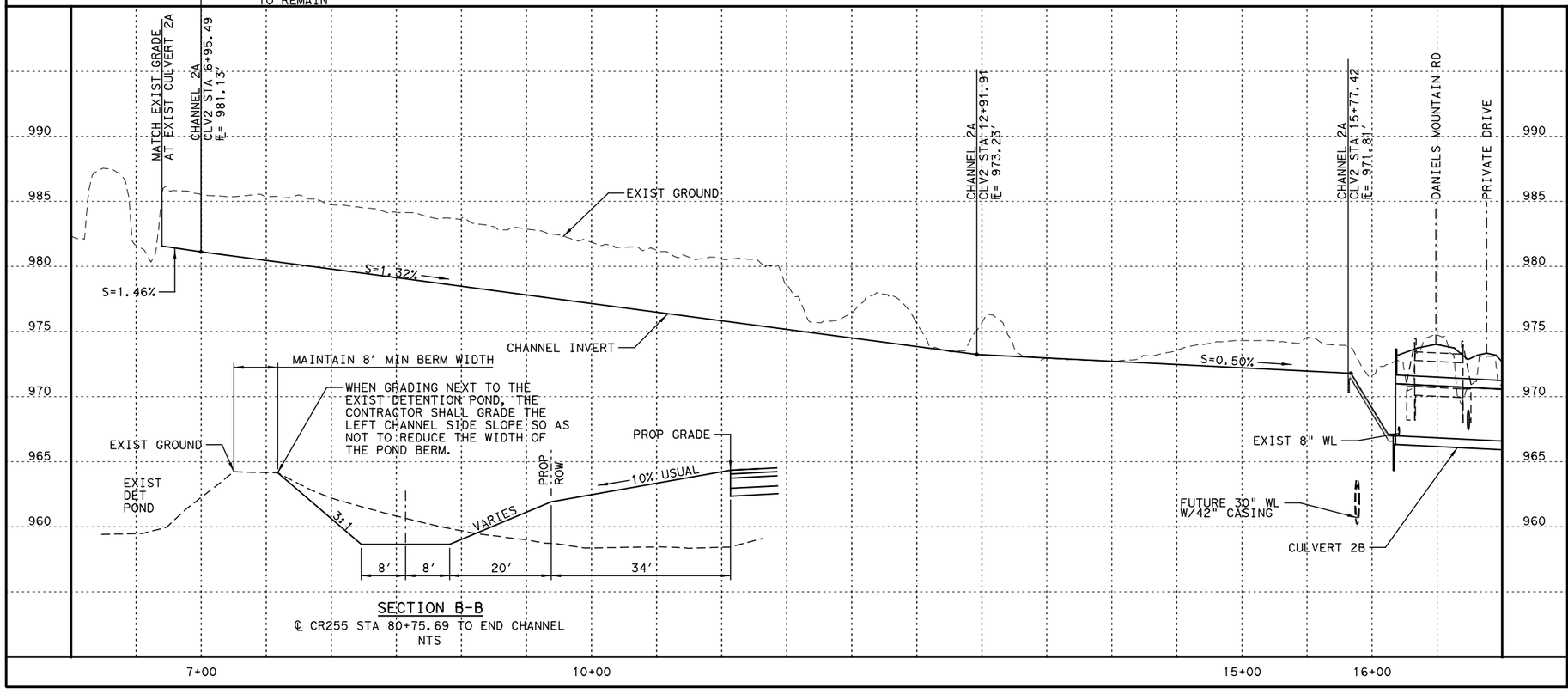

SECTION B-B
℄ CR255 STA 80+75.69 TO END CHANNEL
NTS

0 50 100
H SCALE: 1" = 100′
V SCALE: 1" = 10′

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15'W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW

NOTES:

1. REFER TO HYDRAULIC DATA SHEETS FOR CULVERT 2 FOR DETAILED HYDRAULIC PROPERTIES ALONG THE CHANNEL.
2. SEE ROADWAY PLANS FOR EXCAVATION QUANTITY.
3. CONTOURS ARE SHOWN AT 1′ INTERVALS.
4. SEE SWPPP SHEETS FOR SRB DETAILS.
5. SAWCUT & REMOVE PORTIONS OF EXIST RIPRAP APRON PER ENGINEER'S DIRECTION AS NEEDED TO CONST HILL TOP SPRINGS DRIVEWAY.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
CHANNEL LAYOUT

CHANNEL 2A

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	191

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SUMMARY OF CULVERTS AT DRIVEWAYS & COUNTY ROADS

CULVERT I.D.	CULVERT DESCRIPTION (# - SIZE X LENGTH @ SLOPE)	U.S. NODE I.D.	U.S. NODE DESCRIPTION	U.S. NODE LOCATION	U.S. INVERT (FT)	D.S. NODE I.D.	D.S. NODE DESCRIPTION	D.S. NODE LOCATION	D.S. INVERT (FT)
LINE 1A1	1 - 18" RCP X 41 ' @ 1.33 %	1A1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 22+75.00 , -55.00 ' LT	1024.84	1A2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 23+16.00 , -55.00 ' LT	1024.29
LINE 1A3	2 - 4' x 3' BC X 26 ' @ 0.50 %	1A3	SET(2TY I) (S=4') (HW=4') (6:1) (P)	CR255 STA 26+57.00 , -54.00 ' LT	1020.51	1A4	SET(2TY I) (S=4') (HW=4') (6:1) (P)	CR255 STA 26+83.00 , -54.00 ' LT	1020.38
LINE 1A5	2 - 5' x 3' BC X 40 ' @ 1.06 %	1A5	SET(2TY I) (S=5') (HW=4') (6:1) (P)	CR255 STA 39+69.00 , -54.00 ' LT	1007.67	1A6	SET(2TY I) (S=5') (HW=4') (6:1) (P)	CR255 STA 40+09.00 , -54.00 ' LT	1007.25
LINE 1B1	1 - 24" RCP X 54 ' @ 0.50 %	1B1	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 47+92.00 , -51.50 ' LT	1006.10	1B2	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 47+37.00 , -50.50 ' LT	1005.83
LINE 1B3	2 - 3' x 2' BC X 81 ' @ 2.17 %	1B3	SET(2TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 45+65.00 , -54.00 ' LT	1004.96	1B4	SET(2TY I) (S=3') (HW=3') (3:1) (C)	CR255 STA 44+83.00 , -56.00 ' LT	1003.20
LINE 2A1	1 - 24" RCP X 51 ' @ 0.64 %	2A1	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 51+75.00 , -54.50 ' LT	1007.18	2A2	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 52+26.00 , -57.00 ' LT	1006.85
LINE 2A3	2 - 24" RCP X 28 ' @ 0.75 %	2A3	SET (2-TY II) (24") (RCP) (6:1) (P)	CR255 STA 58+52.00 , -54.00 ' LT	1002.97	2A4	SET (2-TY II) (24") (RCP) (6:1) (P)	CR255 STA 58+80.00 , -54.00 ' LT	1002.76
LINE 2A5	2 - 24" RCP X 28 ' @ 1.79 %	2A5	SET (2-TY II) (24") (RCP) (6:1) (P)	CR255 STA 61+54.00 , -54.00 ' LT	998.73	2A6	SET (2-TY II) (24") (RCP) (6:1) (P)	CR255 STA 61+82.00 , -54.00 ' LT	998.23
LINE 2A7	1 - 3' x 2' BC X 21 ' @ 1.67 %	2A7	SET(TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 64+48.00 , -54.00 ' LT	993.77	2A8	SET(TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 64+69.00 , -54.00 ' LT	993.42
LINE 2A9	1 - 3' x 2' BC X 23 ' @ 1.70 %	2A9	SET(TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 67+06.00 , -55.00 ' LT	989.44	2A10	SET(TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 67+29.00 , -55.00 ' LT	989.05
LINE 2C1	1 - 18" RCP X 53 ' @ 0.53 %	2C1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 56+70.00 , 22.00 ' RT	1003.97	2C2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 57+23.00 , 20.00 ' RT	1003.69
LINE 2C3	1 - 18" RCP X 82 ' @ 1.51 %	2C3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 63+58.00 , 25.00 ' RT	993.87	2C4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 64+40.00 , 25.00 ' RT	992.63
LINE 2C5	1 - 18" RCP X 96 ' @ 0.93 %	2C5	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 68+70.00 , 18.50 ' RT	987.21	2C8	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 69+66.00 , 19.50 ' RT	986.32
LINE 2C9	1 - 18" RCP X 42 ' @ 0.79 %	2C9	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 72+64.00 , 20.30 ' RT	984.02	2C10	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 73+06.00 , 21.00 ' RT	983.69
LINE 3A1	1 - 18" RCP X 40 ' @ 1.10 %	3A1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 88+13.00 , -55.50 ' LT	965.26	3A2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 88+53.00 , -55.50 ' LT	964.82
LINE 3A3	1 - 18" RCP X 42 ' @ 0.98 %	3A3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 89+35.00 , -55.80 ' LT	964.03	3A4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 89+77.00 , -56.20 ' LT	963.62
LINE 3C3	1 - 18" RCP X 68 ' @ 0.84 %	3C3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 90+52.00 , 30.60 ' RT	961.33	3C4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 91+20.00 , 30.70 ' RT	960.76
LINE 3D0	1 - 18" RCP X 82 ' @ 0.51 %	3D0	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 97+89.00 , 31.00 ' RT	961.46	3D1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 97+07.00 , 31.30 ' RT	961.04
LINE 3D2	1 - 18" RCP X 69 ' @ 0.51 %	3D2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 95+23.00 , 31.80 ' RT	960.13	3D3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 94+54.00 , 32.00 ' RT	959.78
LINE 4A1	1 - 24" RCP X 42 ' @ 1.28 %	4A1	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 104+80.00 , -47.00 ' LT	955.69	4A2	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 105+22.00 , -50.00 ' LT	955.15
LINE 4C1	1 - 18" RCP X 91 ' @ 1.37 %	4C1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 100+40.00 , 36.40 ' RT	960.10	4C2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 101+32.00 , 36.00 ' RT	958.85
LINE 5A1	1 - 18" RCP X 46 ' @ 0.52 %	5A1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 108+26.00 , -50.00 ' LT	954.92	5A2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 108+72.00 , -51.20 ' LT	954.68
LINE 5A3	1 - 18" RCP X 45 ' @ 2.97 %	5A3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 112+84.00 , -56.60 ' LT	948.49	5A4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 113+29.00 , -57.50 ' LT	947.16
LINE 5B1	1 - 18" RCP X 65 ' @ 2.52 %	5B1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 130+58.00 , -51.50 ' LT	961.20	5B2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 129+93.00 , -52.50 ' LT	959.56
LINE 5B3	1 - 4' x 2' BC X 67 ' @ 6.89 %	5B3	SET(TY I) (S=3') (HW=3') (6:1) (P)	CR255 STA 119+21.00 , -58.50 ' LT	938.95	5B4	SET(TY I) (S=4') (HW=3') (3:1) (C)	CR255 STA 118+54.00 , -53.61 ' LT	934.35
LINE 5C1	1 - 18" RCP X 59 ' @ 2.87 %	5C1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 112+21.00 , 24.50 ' RT	949.52	5C2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 112+80.00 , 26.00 ' RT	947.82
LINE 5C3	1 - 18" RCP X 64 ' @ 2.59 %	5C3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 114+13.00 , 29.00 ' RT	944.07	5C4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 114+77.00 , 29.00 ' RT	942.41
LINE 5C5	1 - 18" RCP X 93 ' @ 2.50 %	5C5	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 115+77.47 , 31.00 ' RT	939.90	5C6	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 116+70.00 , 37.20 ' RT	937.57
LINE 5D1	1 - 18" RCP X 96 ' @ 5.44 %	5D1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 127+93.00 , 37.50 ' RT	953.16	5D2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 126+98.00 , 49.00 ' RT	947.95
LINE 5D3	1 - 18" RCP X 98 ' @ 0.69 %	5D3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 121+86.00 , 47.00 ' RT	938.91	5D4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 120+88.00 , 42.00 ' RT	938.24
LINE 6C1	1 - 18" RCP X 76 ' @ 1.74 %	6C1	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 134+80.00 , 34.20 ' RT	962.08	6C2	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 135+56.00 , 37.00 ' RT	960.76
LINE 6C3	1 - 18" RCP X 79 ' @ 1.96 %	6C3	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 136+14.00 , 37.00 ' RT	959.63	6C4	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 136+93.00 , 36.20 ' RT	958.09
LINE 6C5	1 - 18" RCP X 86 ' @ 1.83 %	6C5	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 141+15.00 , 37.00 ' RT	944.69	6C6	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 142+00.00 , 33.80 ' RT	943.12
LINE 6D1	1 - 18" RCP X 25 ' @ 1.90 %	6D1	SET (TY II) (18") (RCP) (6:1) (P)	CR289 STA 15+54.00 , 22.00 ' RT	947.00	6D2	SET (TY II) (18") (RCP) (6:1) (P)	CR289 STA 15+30.00 , 24.40 ' RT	946.53
LINE 9A1	1 - 18" RCP X 108 ' @ 1.66 %	9A1	SET (TY II) (18") (RCP) (6:1) (P)	RRB STA 23+00.00 , -56.00 ' LT	952.97	9A2	SET (TY II) (18") (RCP) (6:1) (P)	RRB STA 21+93.00 , -49.00 ' LT	951.18
LINE 9A3	1 - 24" RCP X 102 ' @ 2.21 %	9A3	SET (TY II) (24") (RCP) (6:1) (P)	RRB STA 19+39.96 , -59.00 ' LT	944.08	9A OUT	SET (TY II) (24") (RCP) (6:1) (P)	RRB STA 18+38.66 , -59.00 ' LT	941.83
LINE 2C11	1 - 18" RCP X 44 ' @ 0.80 %	2C11	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 73+52.00 , 21.00 ' RT	983.34	2C12	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 73+96.00 , 21.00 ' RT	982.99
LINE 2C13	1 - 18" RCP X 50 ' @ 0.78 %	2C13	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 76+18.00 , 22.00 ' RT	981.27	2C14	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 76+68.00 , 22.00 ' RT	980.88
LINE 2C15	1 - 18" RCP X 45 ' @ 1.71 %	2C15	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 78+25.00 , 20.50 ' RT	979.46	2C16	SET (TY II) (18") (RCP) (6:1) (P)	CR255 STA 78+70.00 , 20.50 ' RT	978.69
LINE 2C17	1 - 24" RCP X 52 ' @ 1.65 %	2C17	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 83+79.00 , 17.70 ' RT	970.22	2C18	SET (TY II) (24") (RCP) (6:1) (P)	CR255 STA 84+31.00 , 18.00 ' RT	969.36

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRIVEWAY CULVERT SUMMARY

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	192

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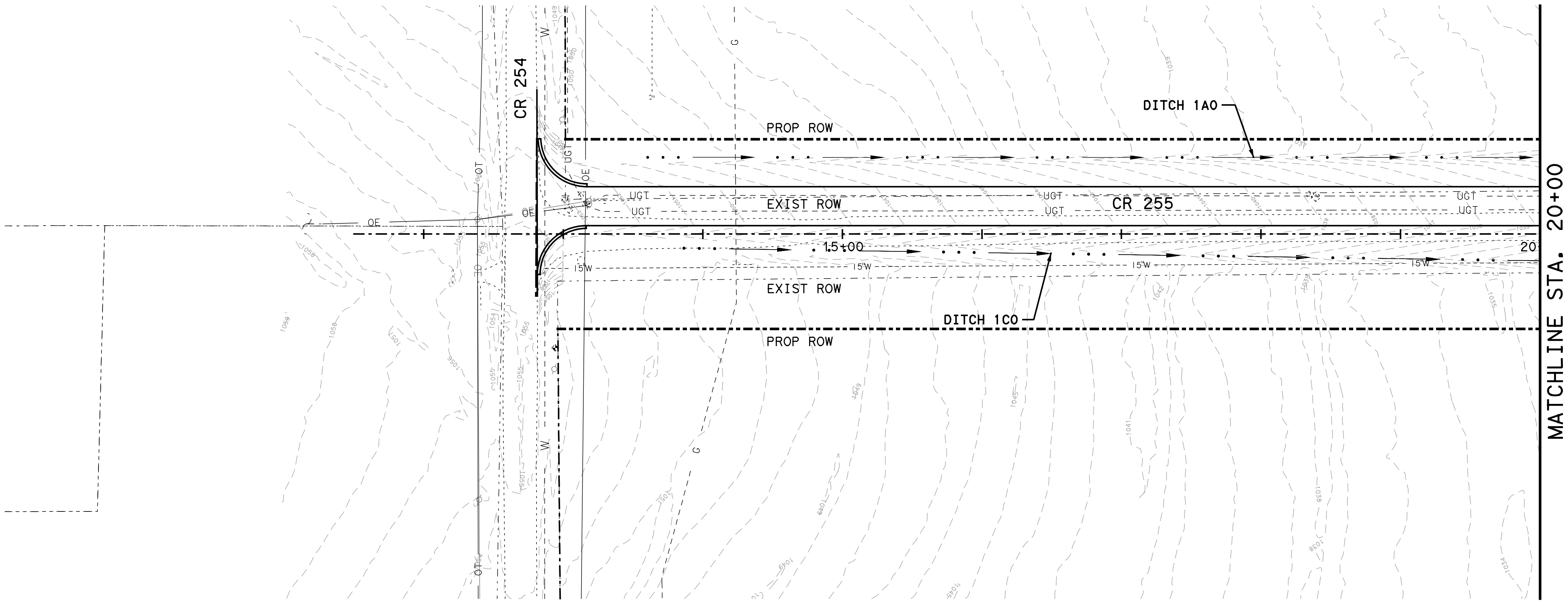


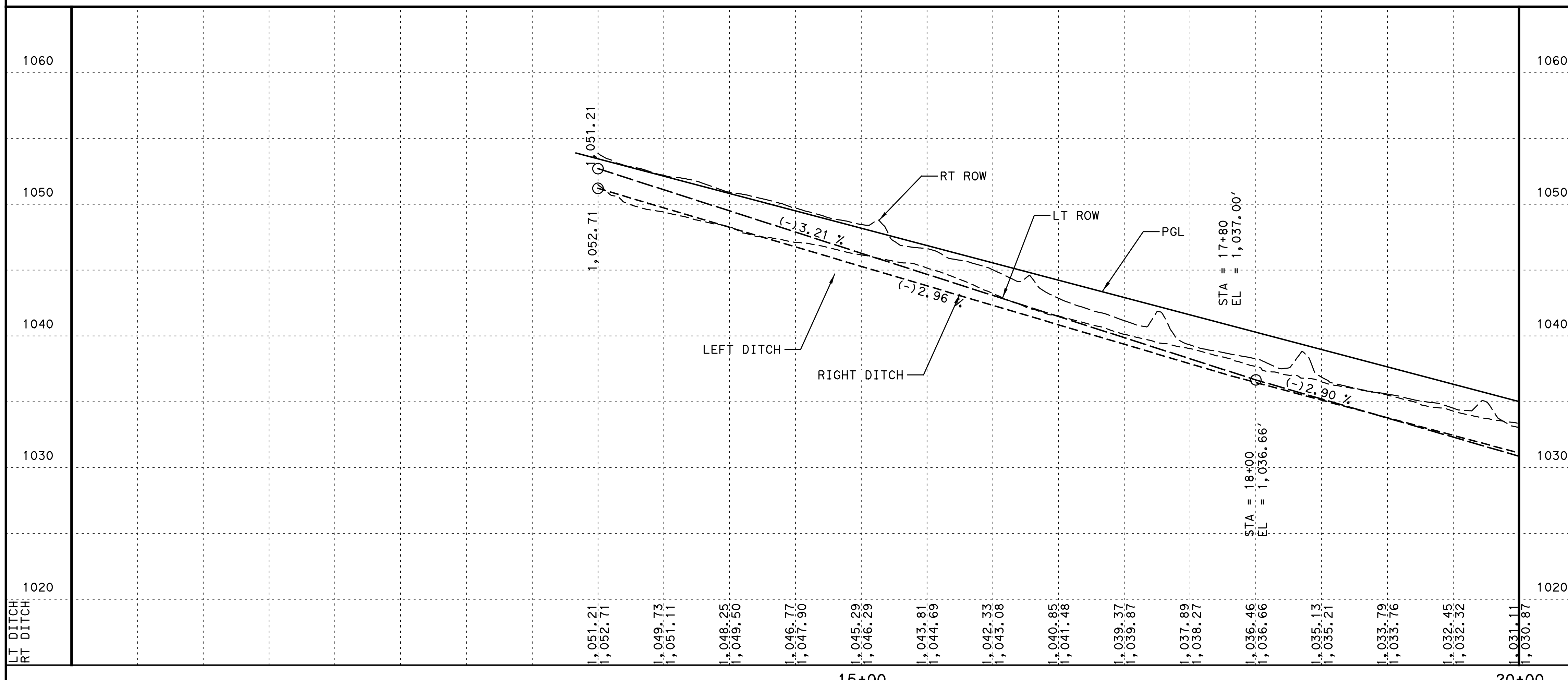
SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- EXIST UG UTILITY
- EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
BEGIN PROJECT TO STA 20+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 1 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 193

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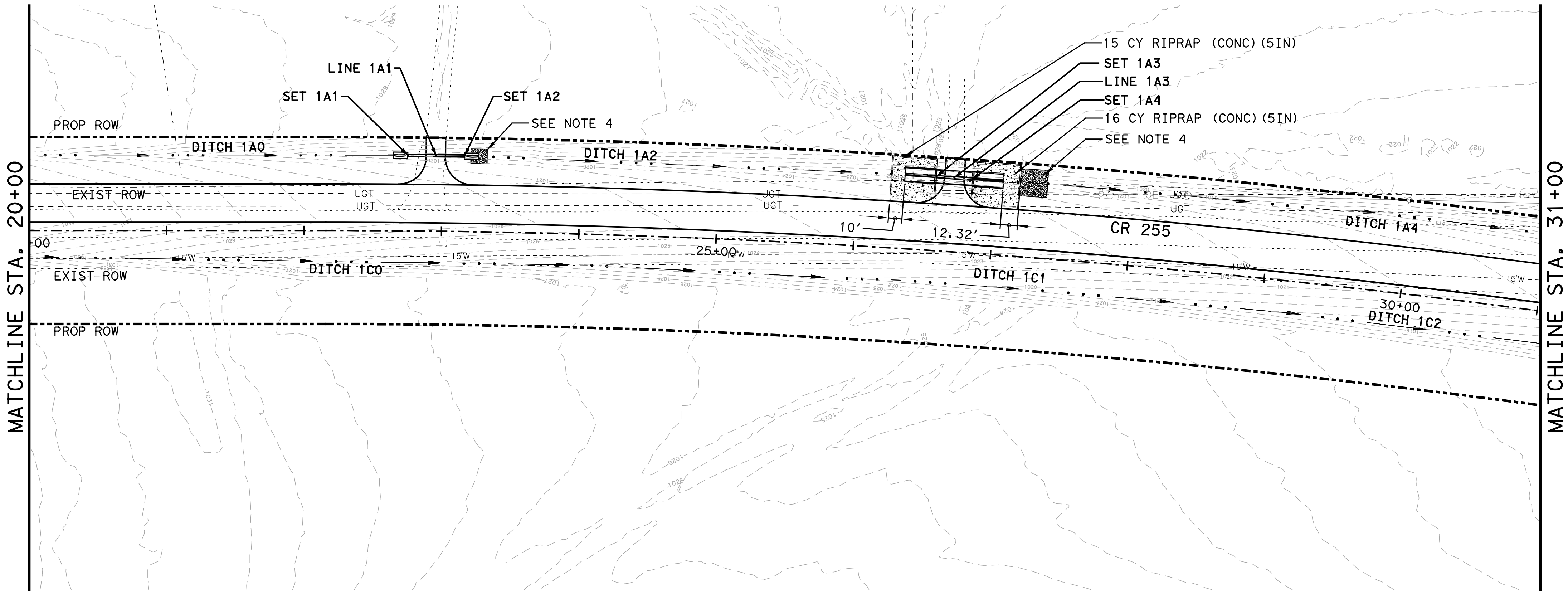


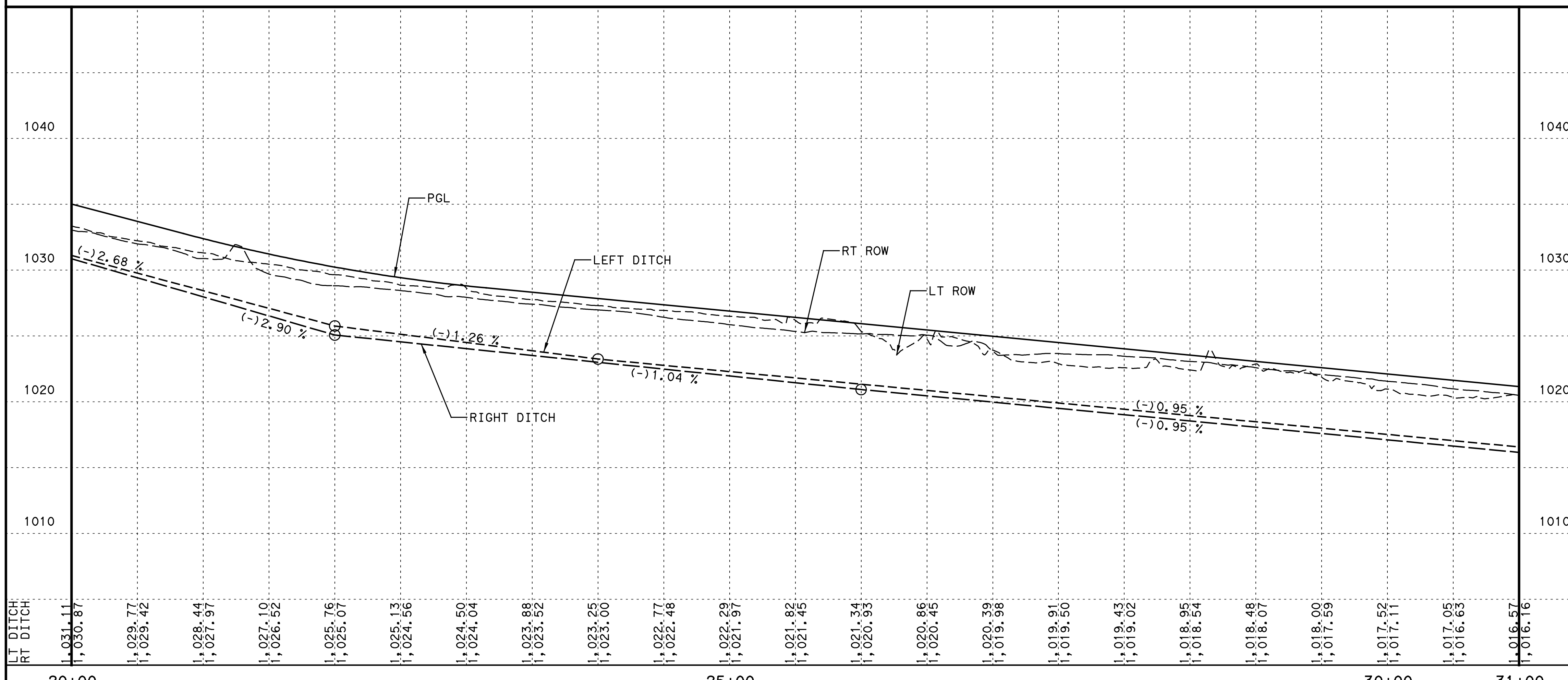
0 50 100
SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 20+00 TO 31+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 2 OF 15

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
DESIGNED:					
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 194

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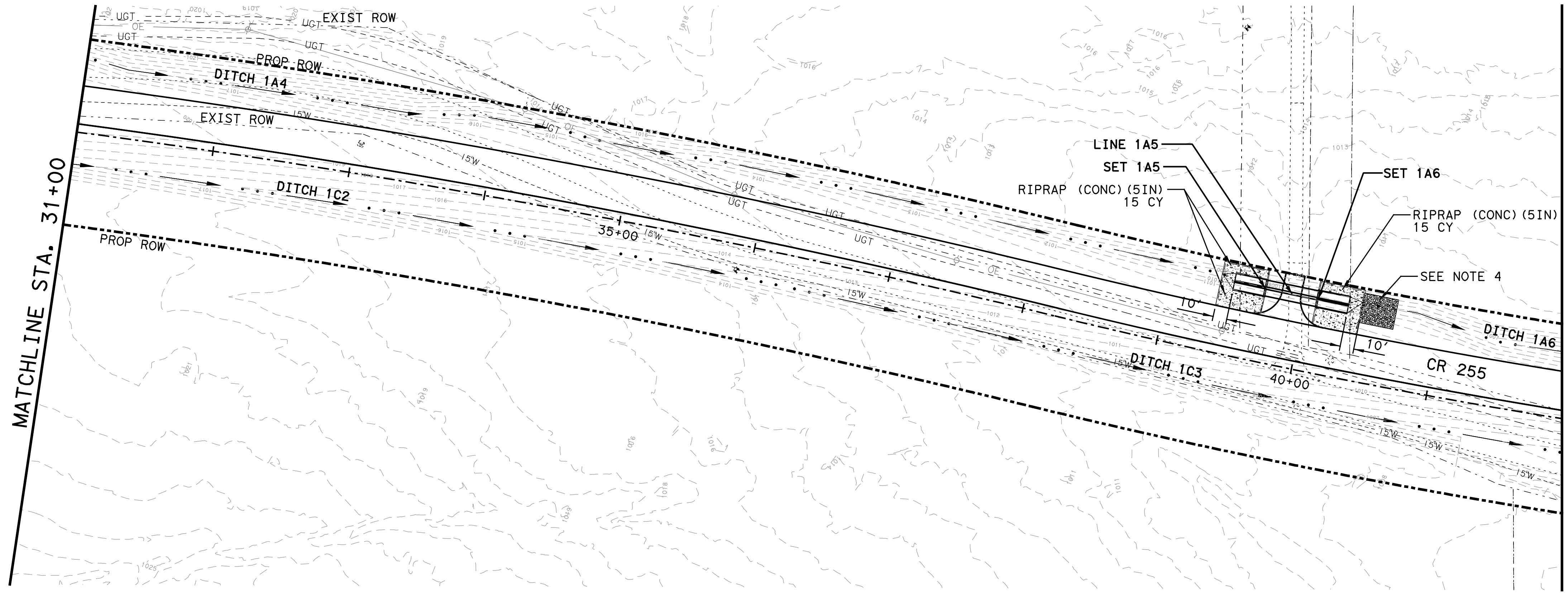


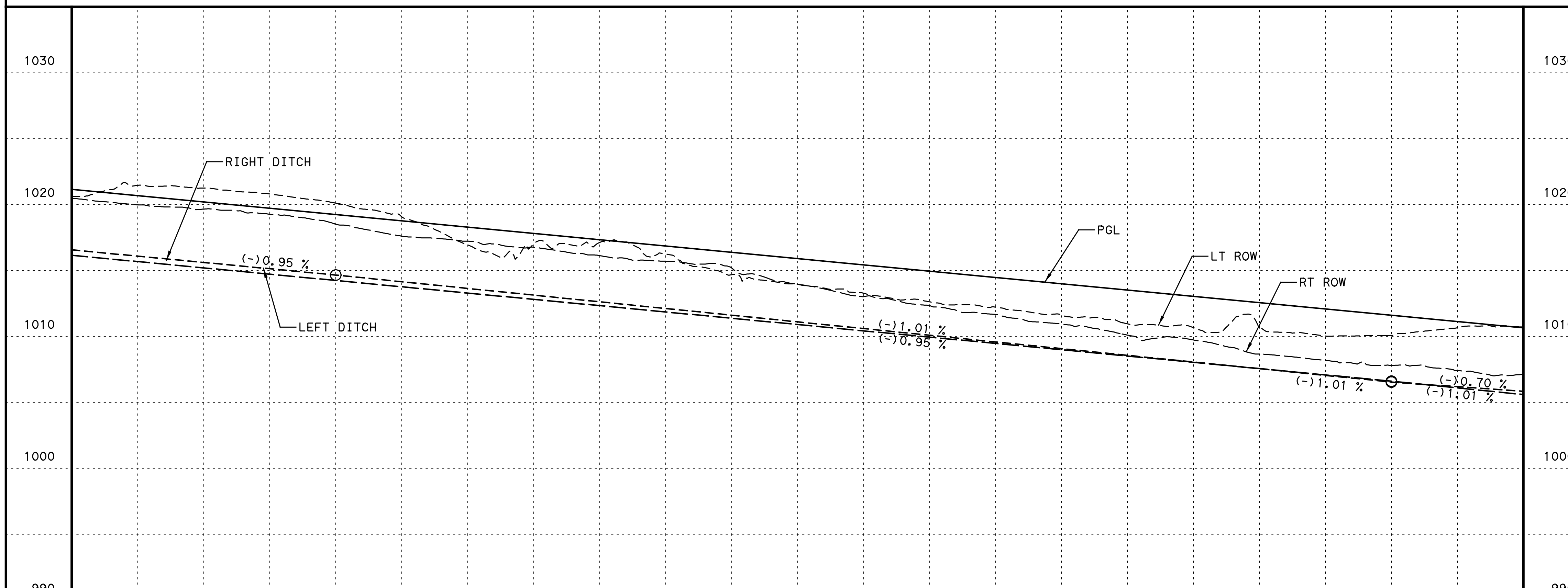
SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



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1,016.09	1,015.68
1,015.62	1,015.20
1,015.14	1,014.73
1,014.66	1,014.25
1,014.15	1,013.77
1,013.65	1,013.29
1,013.14	1,012.82
1,012.63	1,012.34
1,012.12	1,011.86
1,011.62	1,011.38
1,011.11	1,010.91
1,010.60	1,010.43
1,010.09	1,009.95
1,009.59	1,009.47
1,009.08	1,009.00
1,008.57	1,008.52
1,008.06	1,008.04
1,007.56	1,007.57
1,007.05	1,007.09
1,006.54	1,006.61
1,006.19	1,006.10
1,005.84	1,005.60

31+00 35+00 40+00 42+00

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 31+00 TO 42+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
DESIGNED: / CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	195

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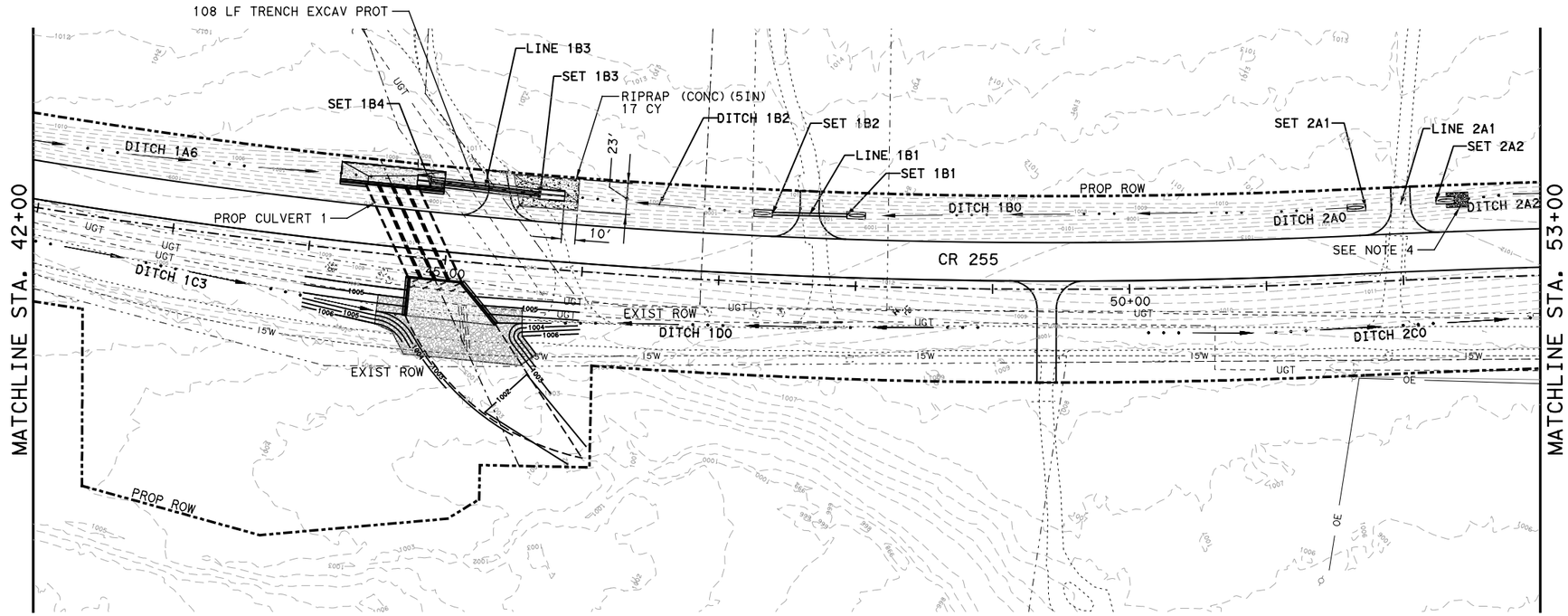

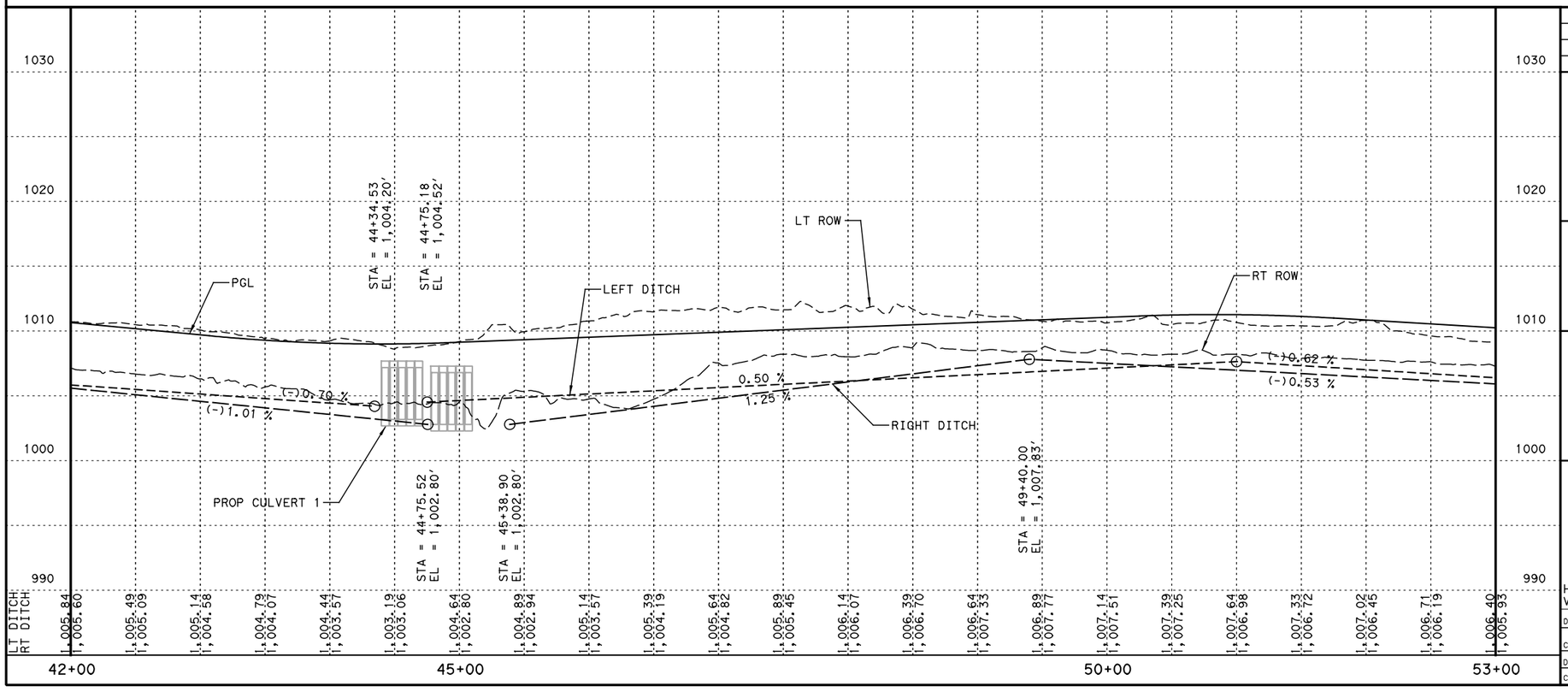

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15'W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E Gann 7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 42+00 TO 53+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 4 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	196

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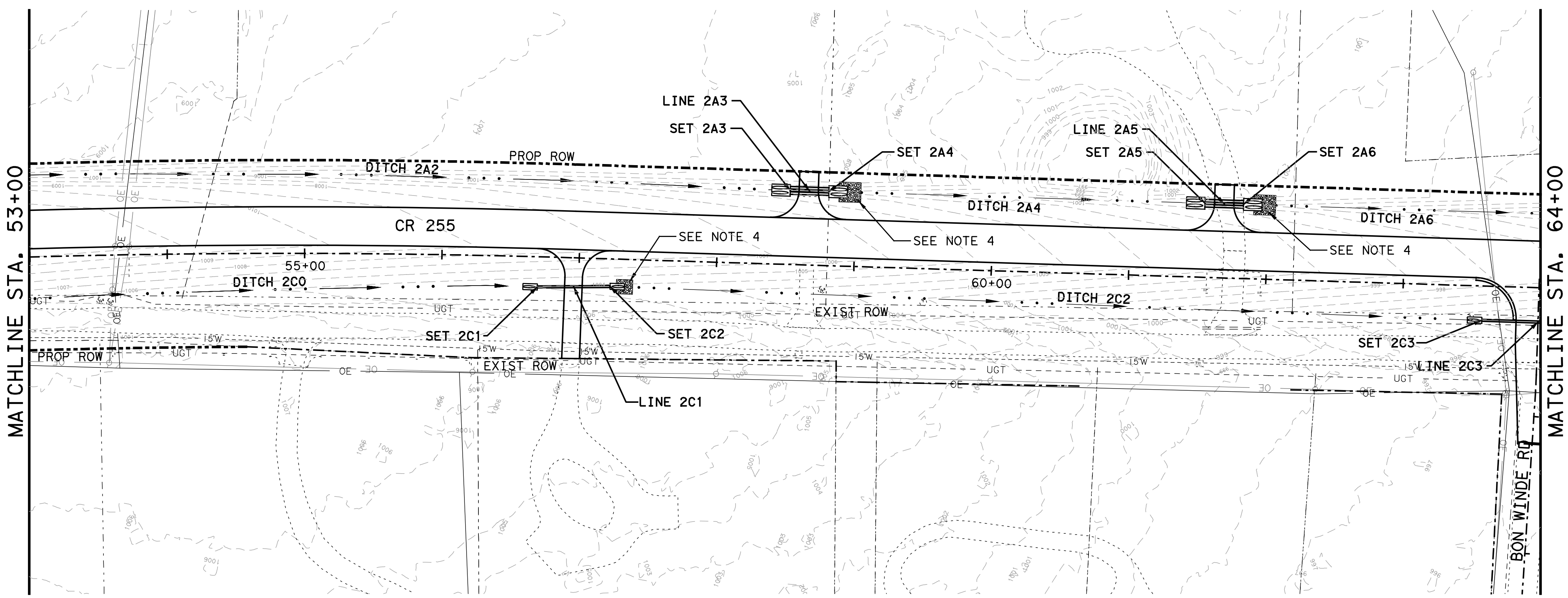

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

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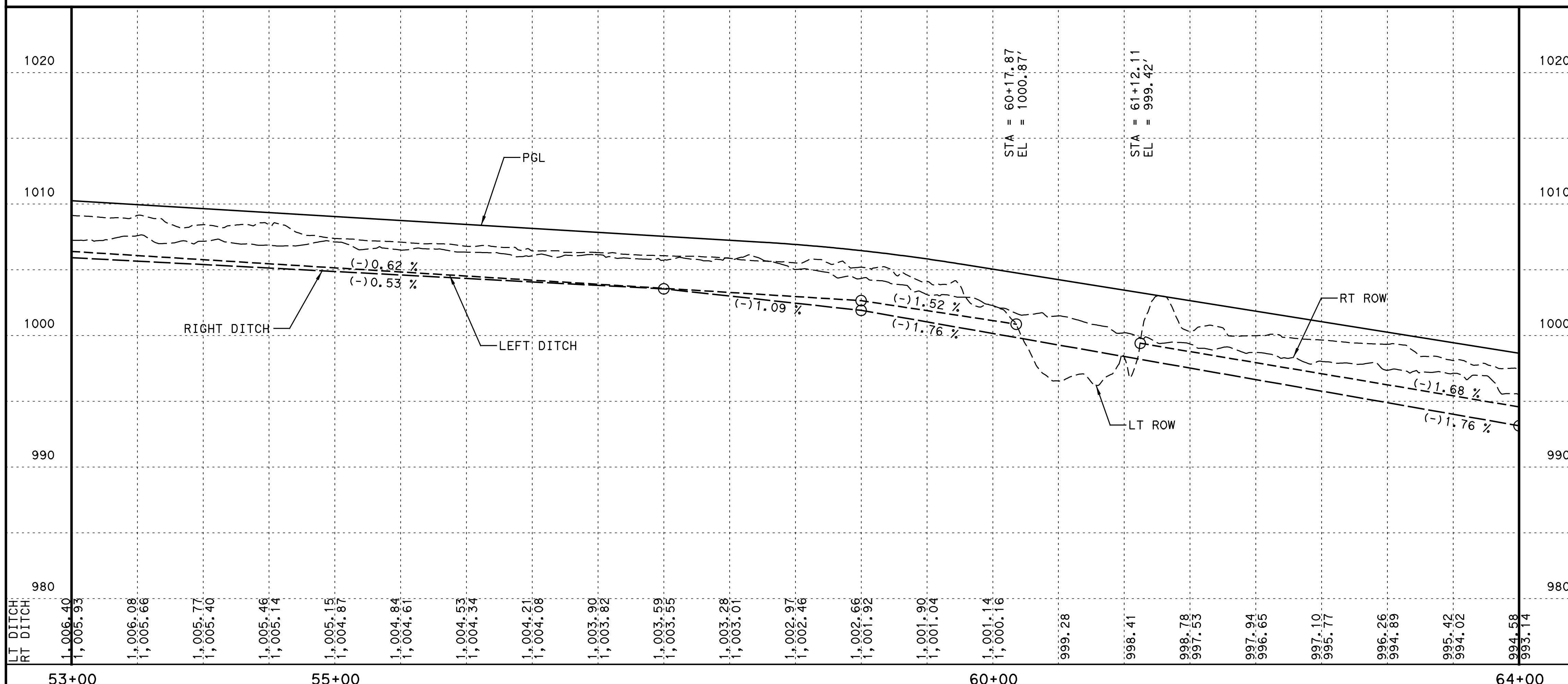

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 53+00 TO 64+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 5 OF 15

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
DESIGNED:	X	TEXAS				CR 255
CHECKED:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
DRAWN: CHECKED:	XX	XX	XX	XX	XX	197

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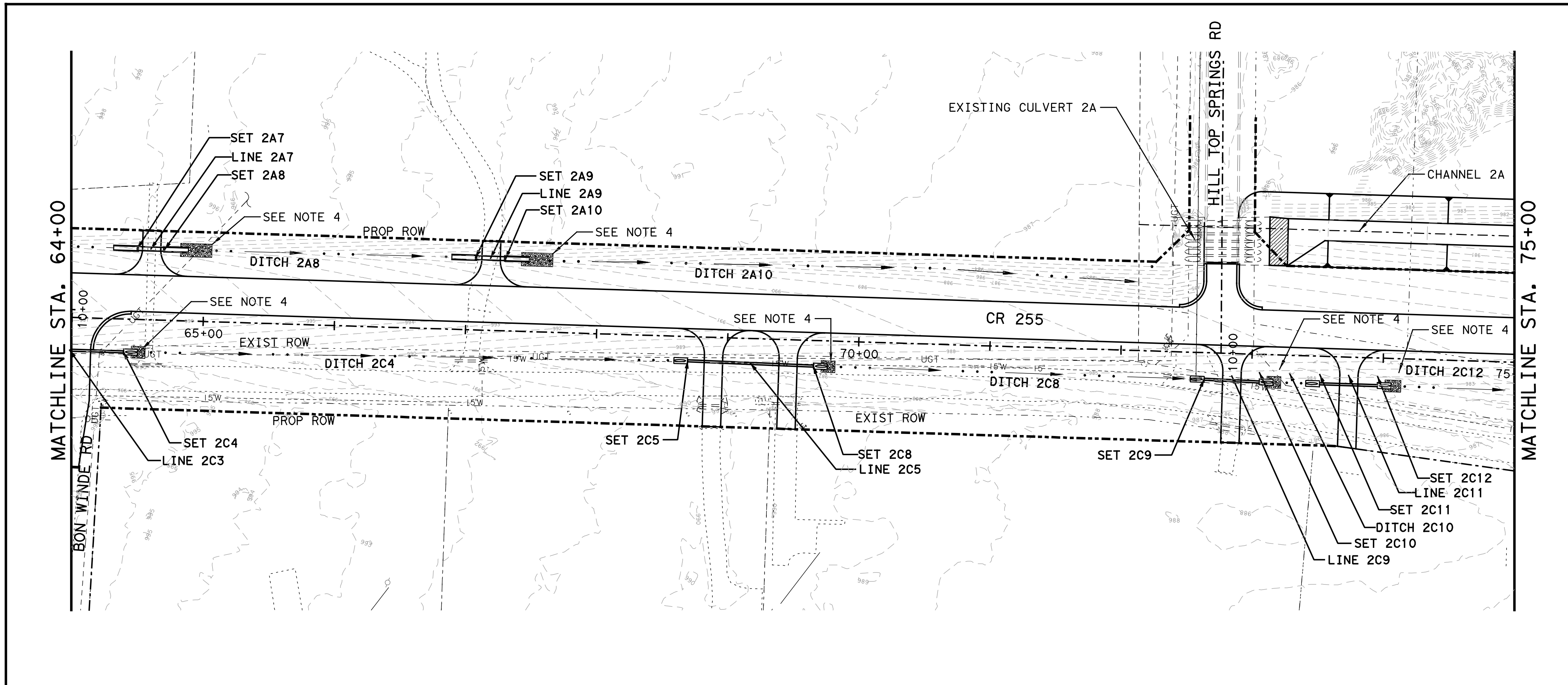

SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
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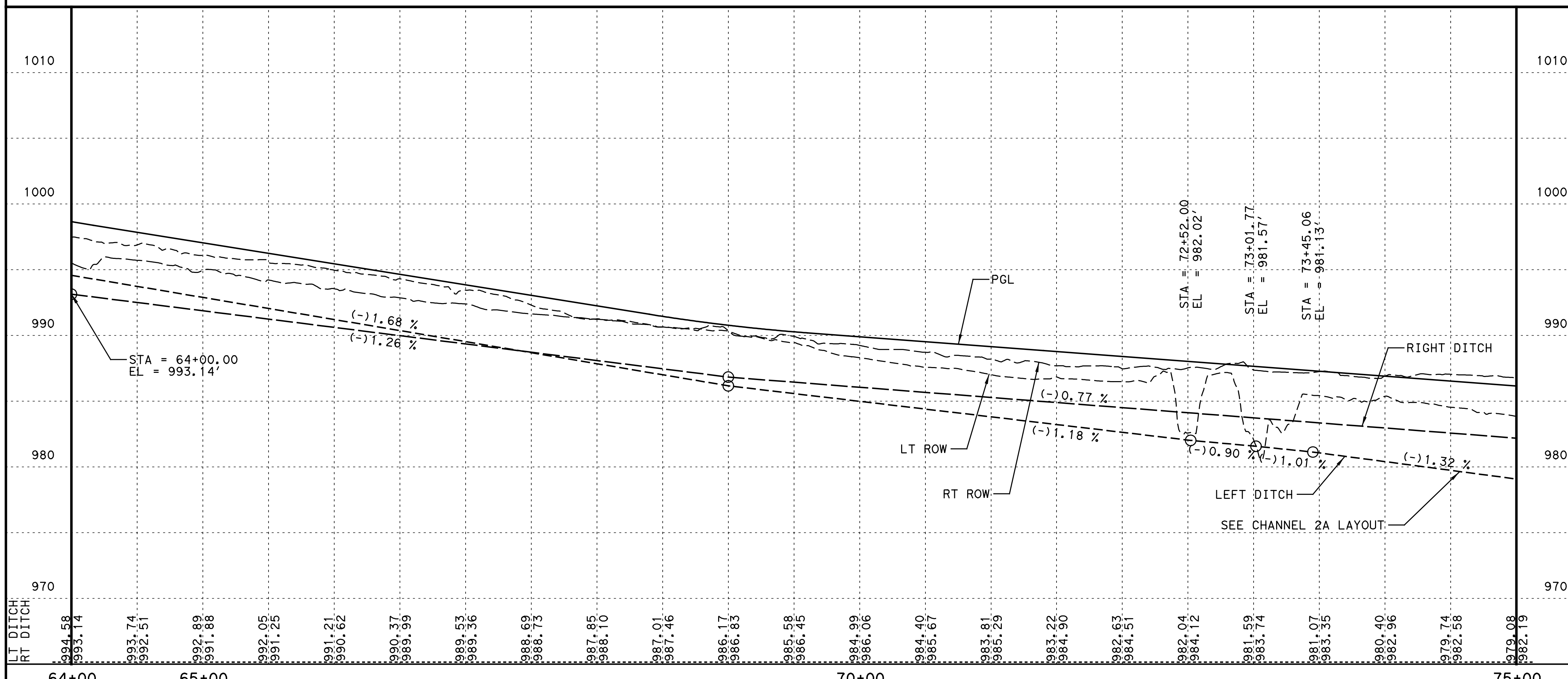
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 64+00 TO 75+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 6 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 198

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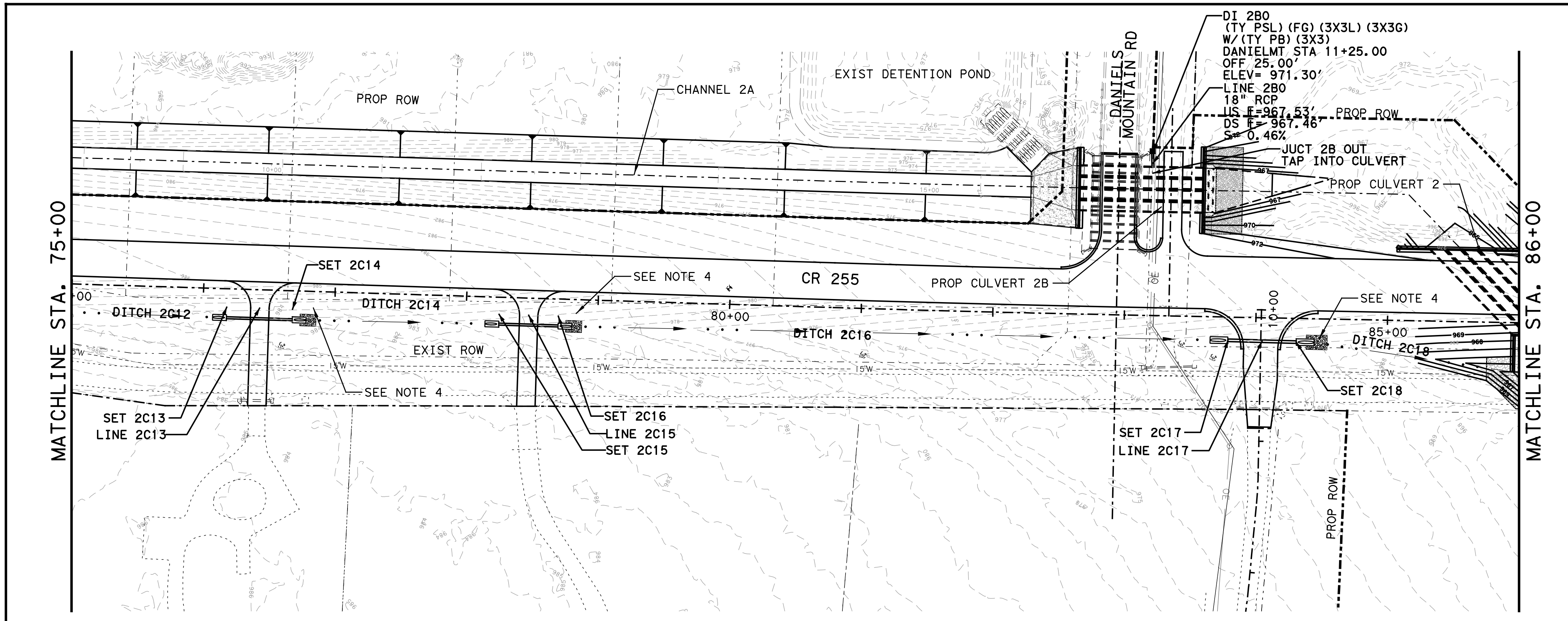

SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

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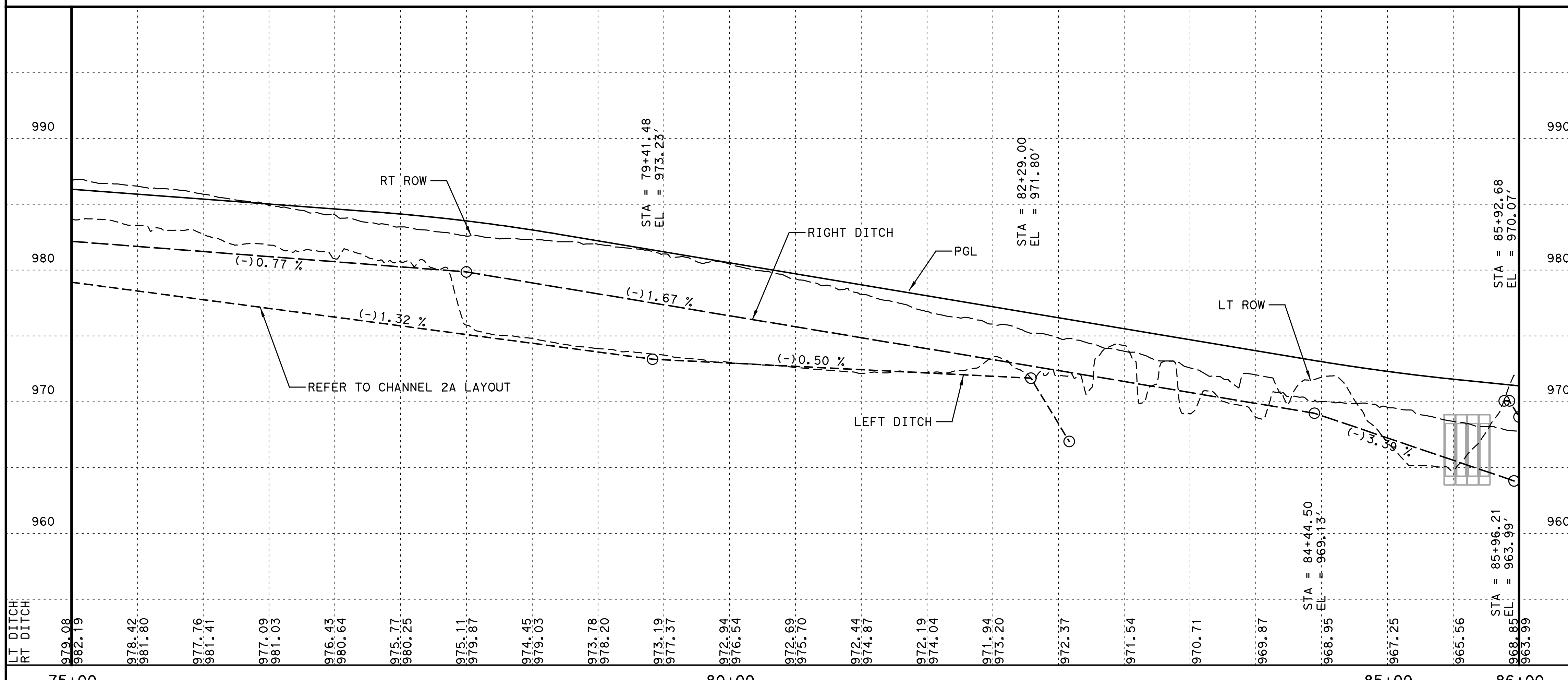
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 75+00 TO 86+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 7 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 199

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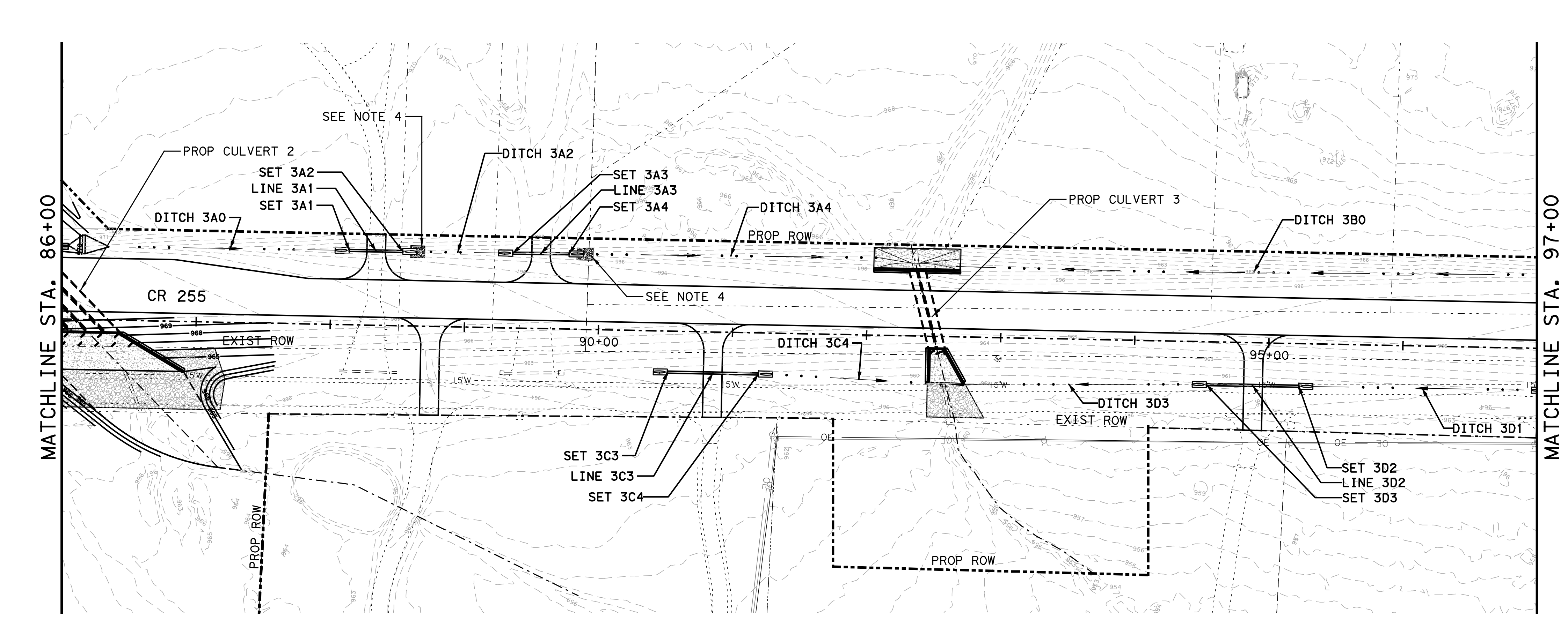


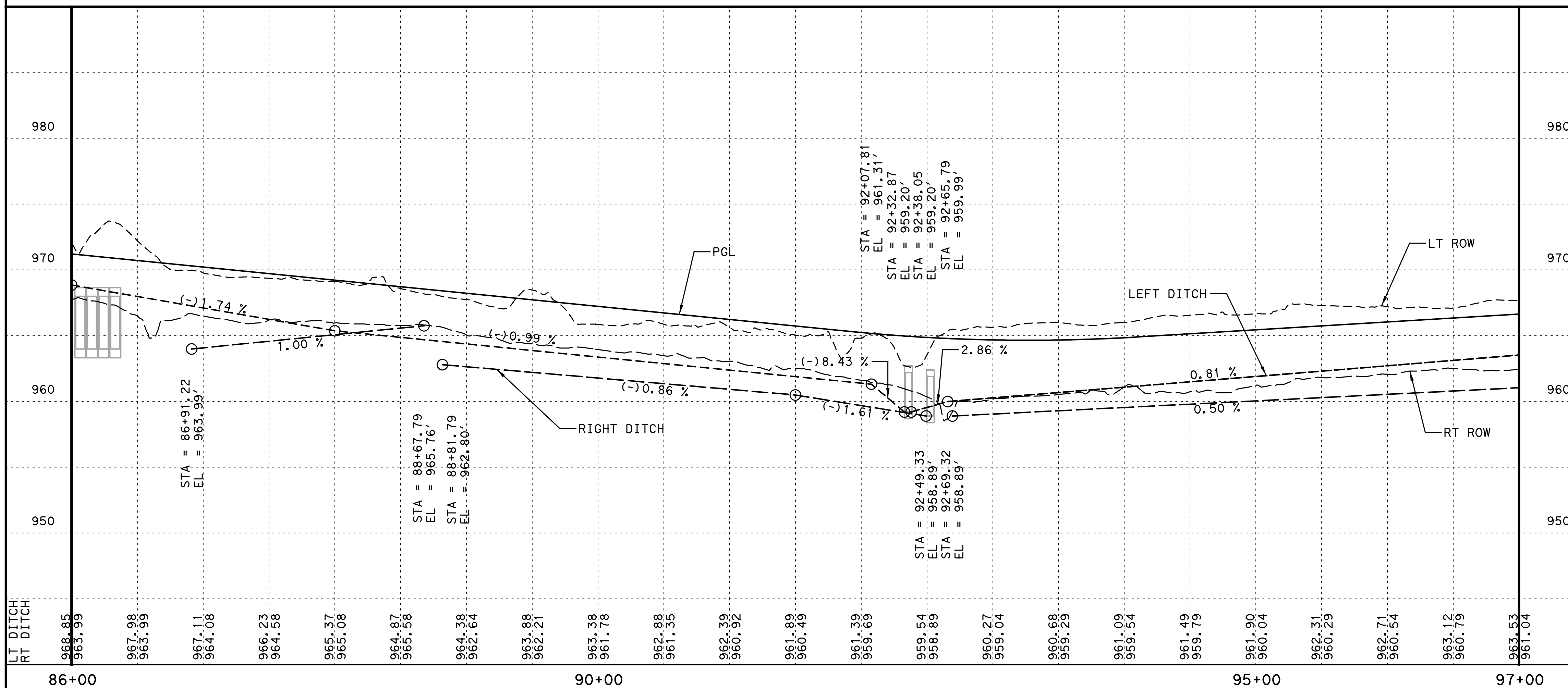
SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 86+00 TO 97+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 8 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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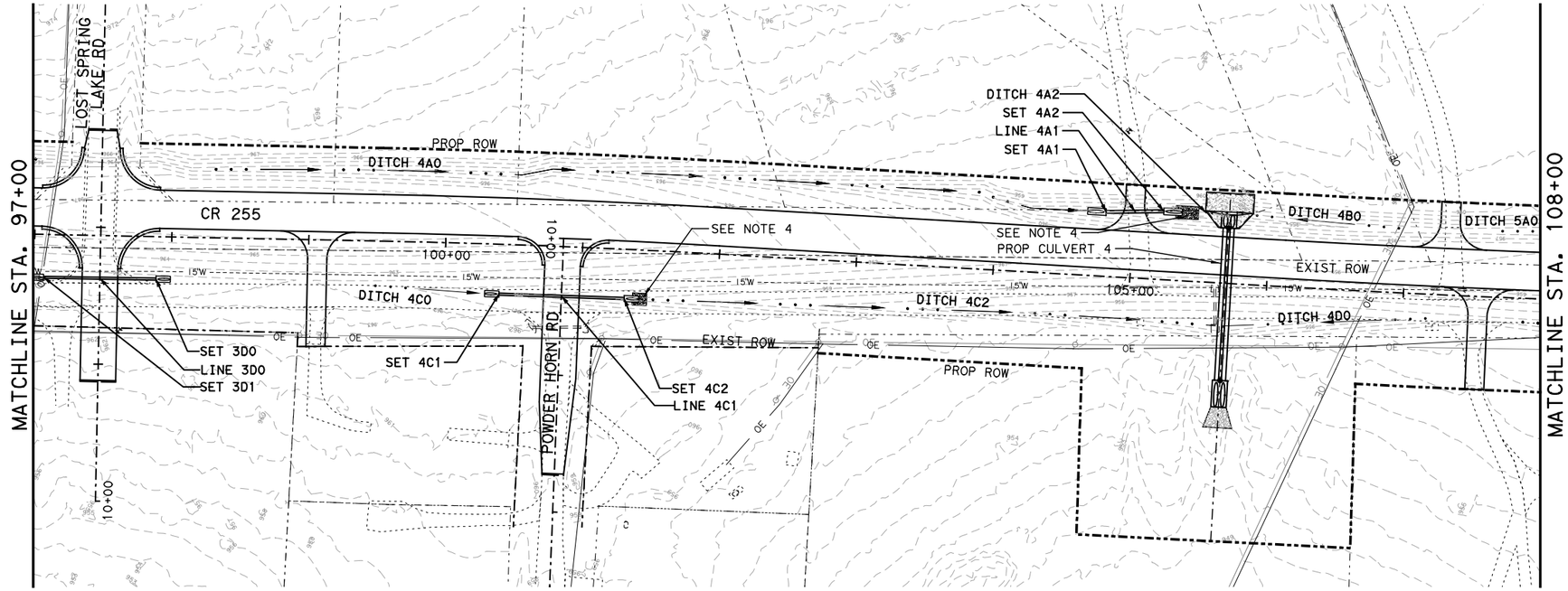


0 50 100

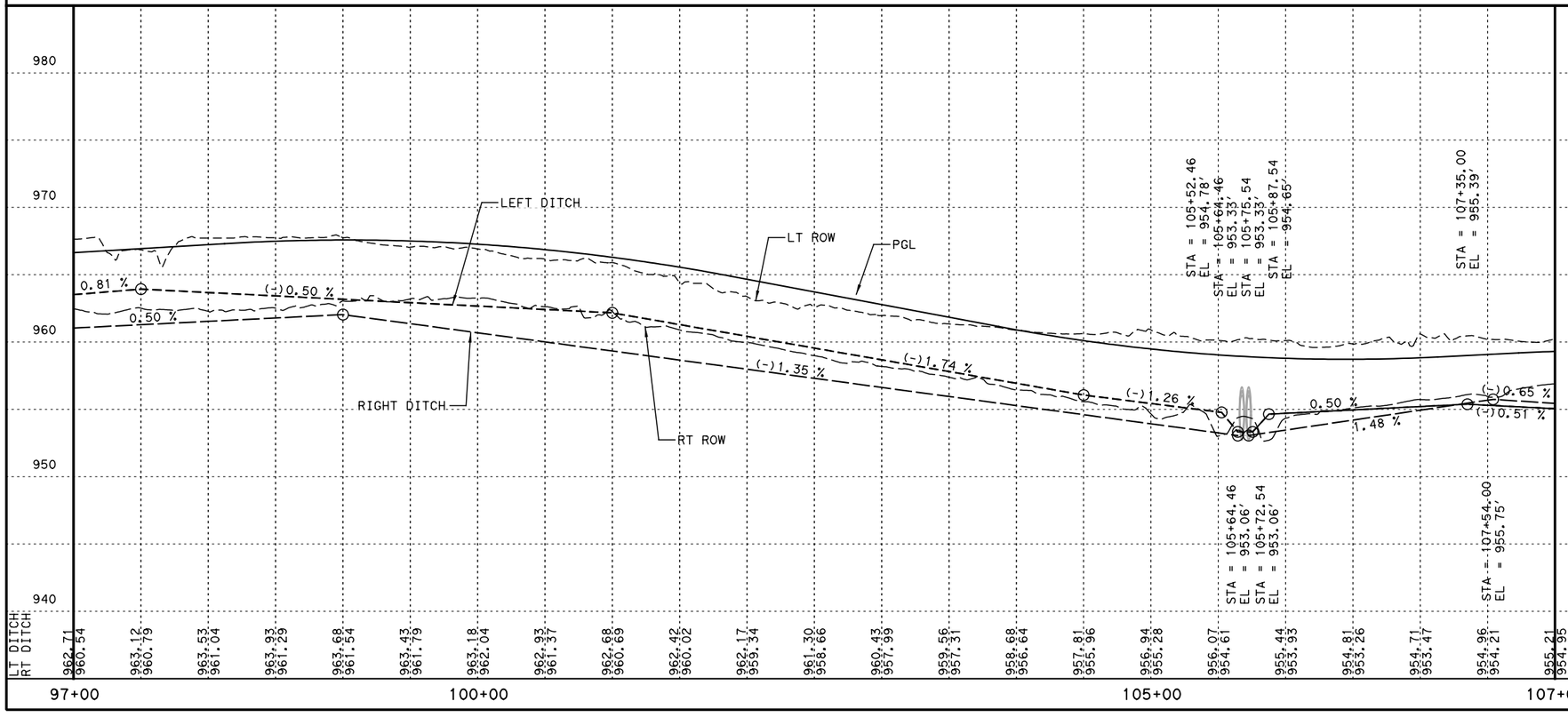
SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 97+00 TO 108+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 9 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	201

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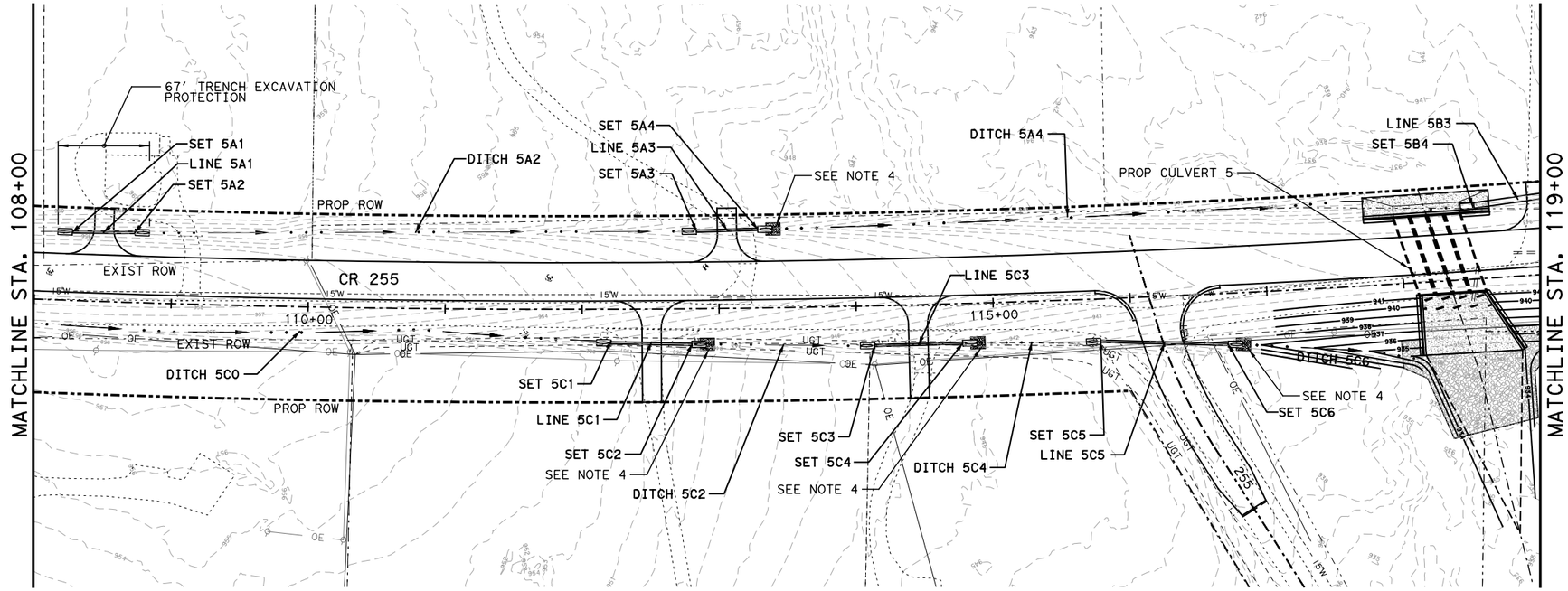

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15'W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
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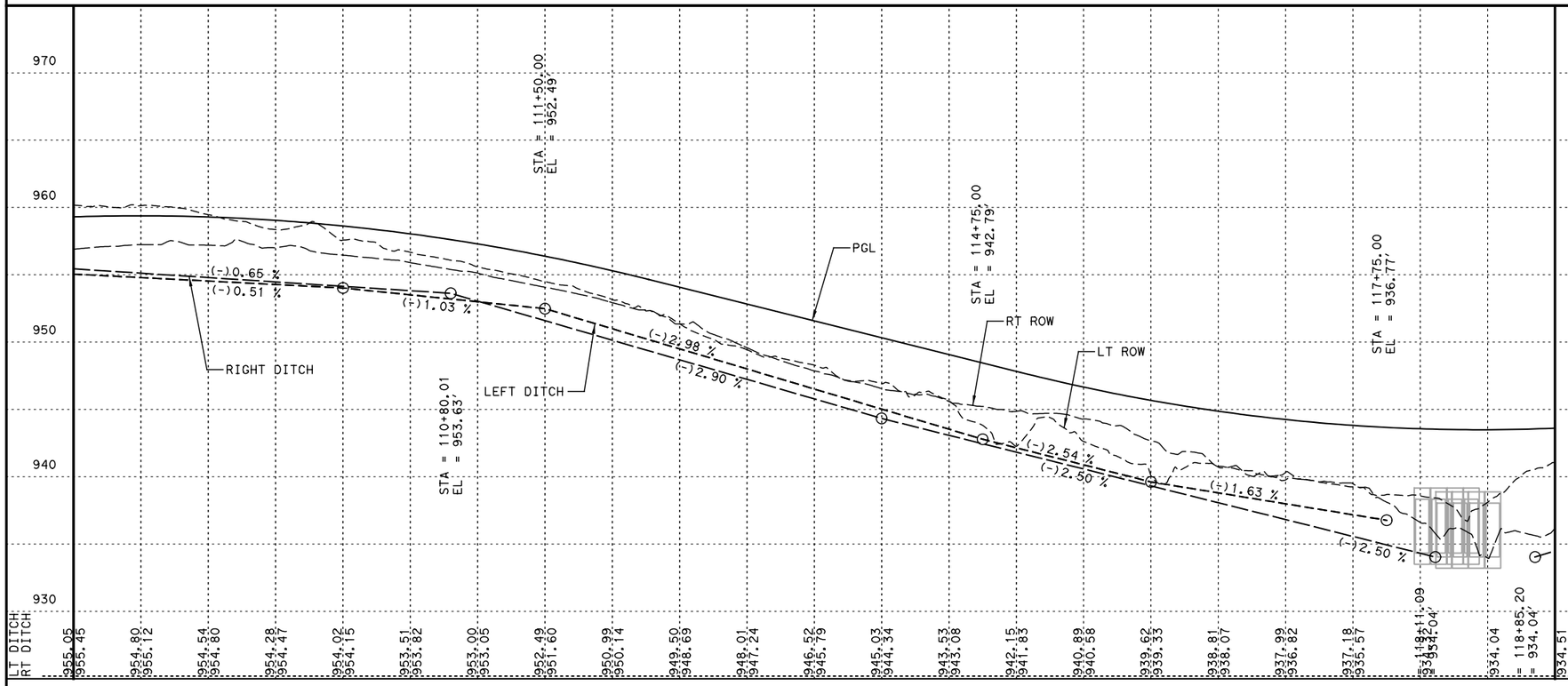
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 108+00 TO 119+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 10 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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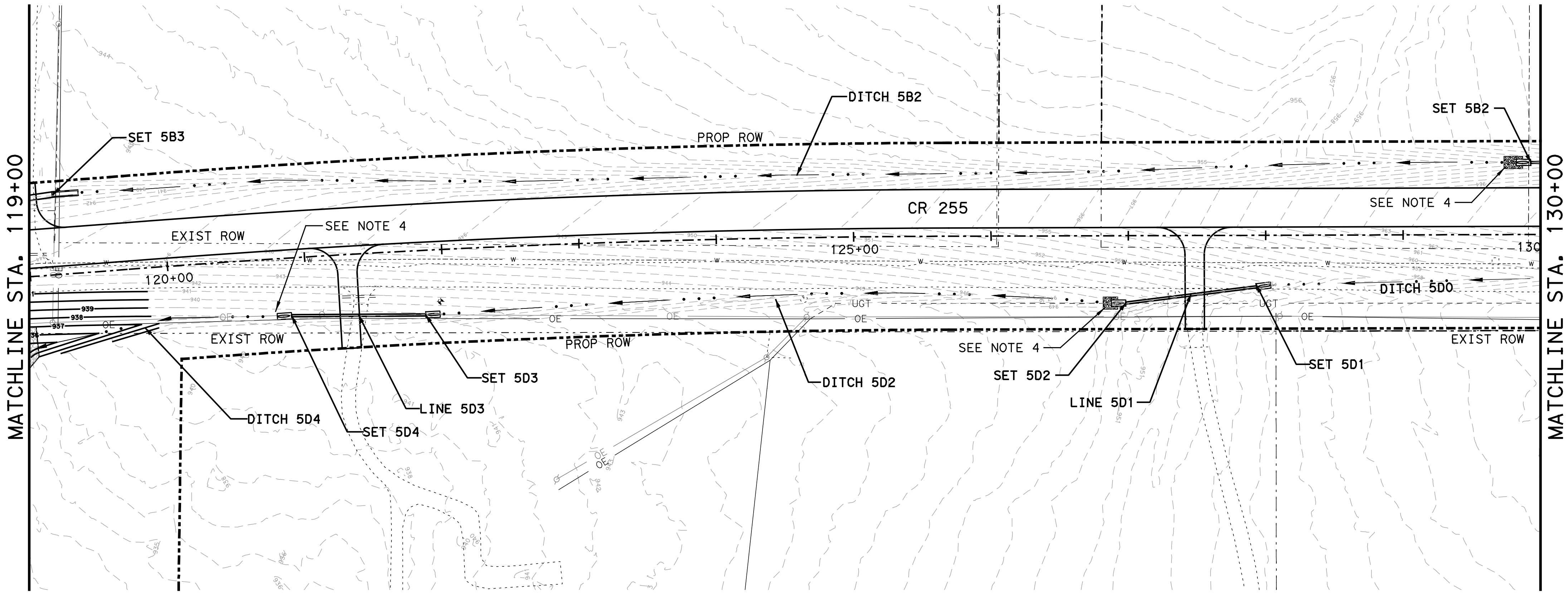

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

SCALE: 1" = 100'

LEGEND

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
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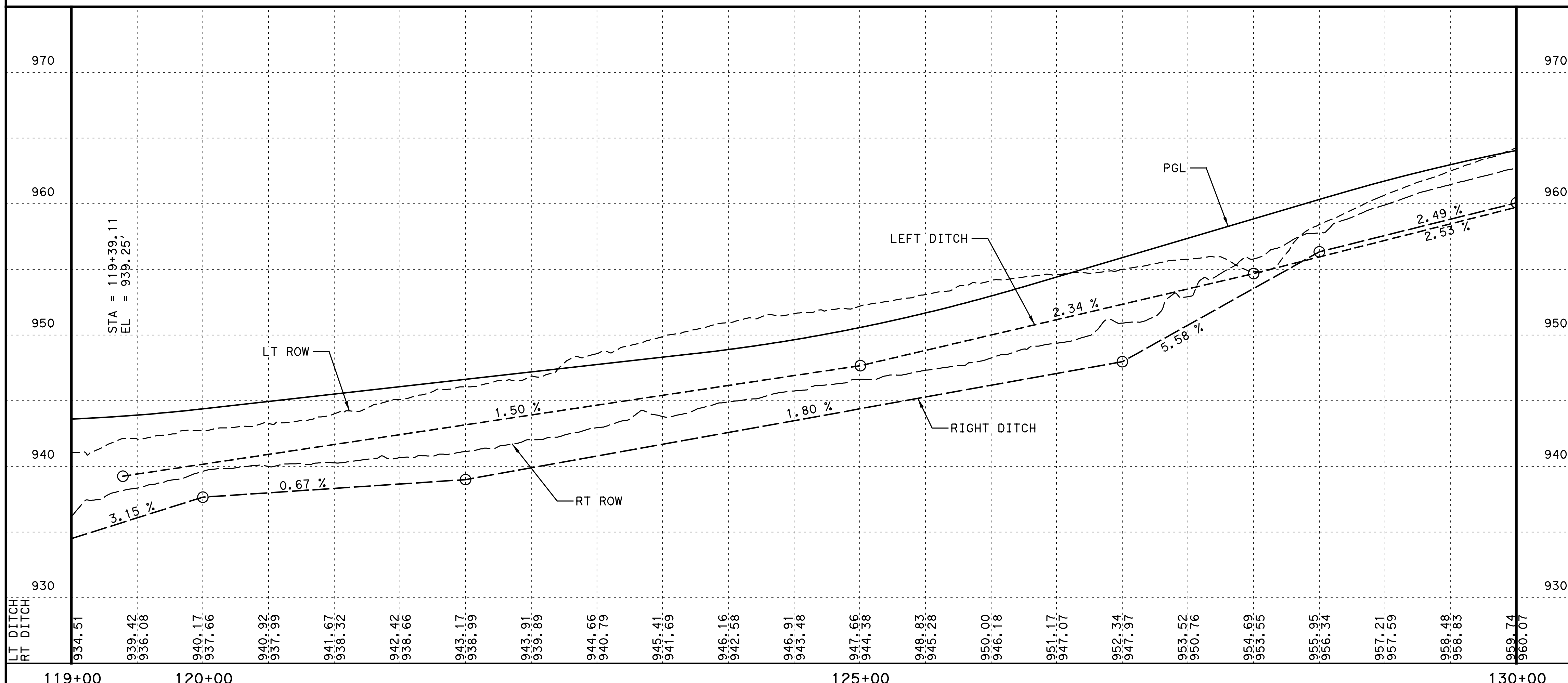
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 119+00 TO 130+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 11 OF 15

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
DESIGNED:	X	TEXAS				CR 255
CHECKED:						
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	203

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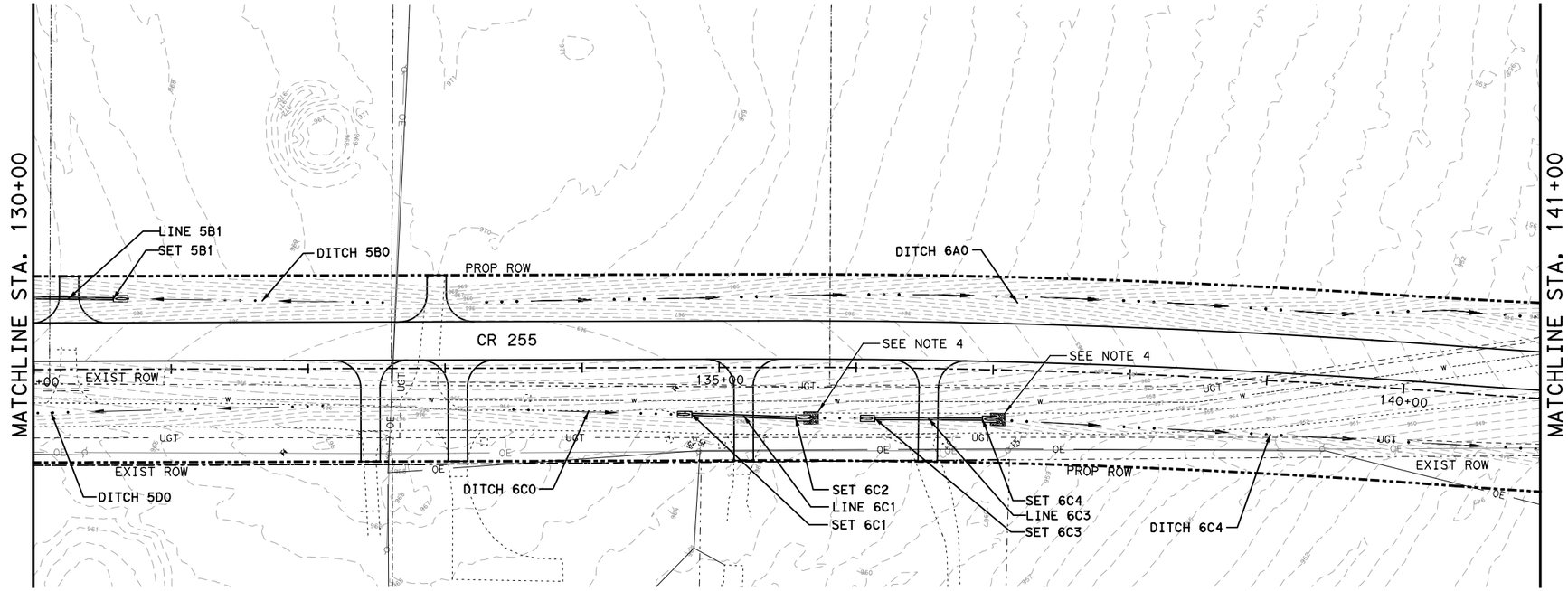

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
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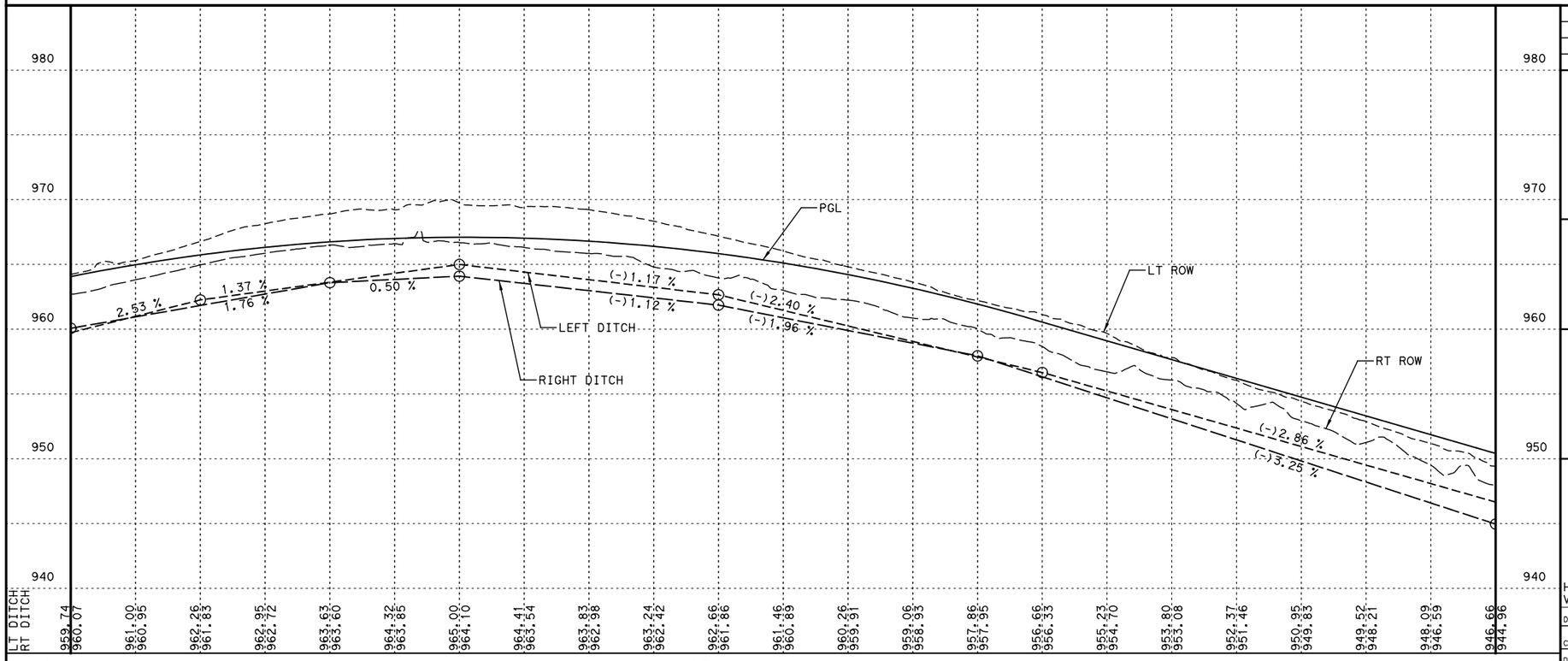
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E Gann 7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 130+00 TO 141+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 12 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	204

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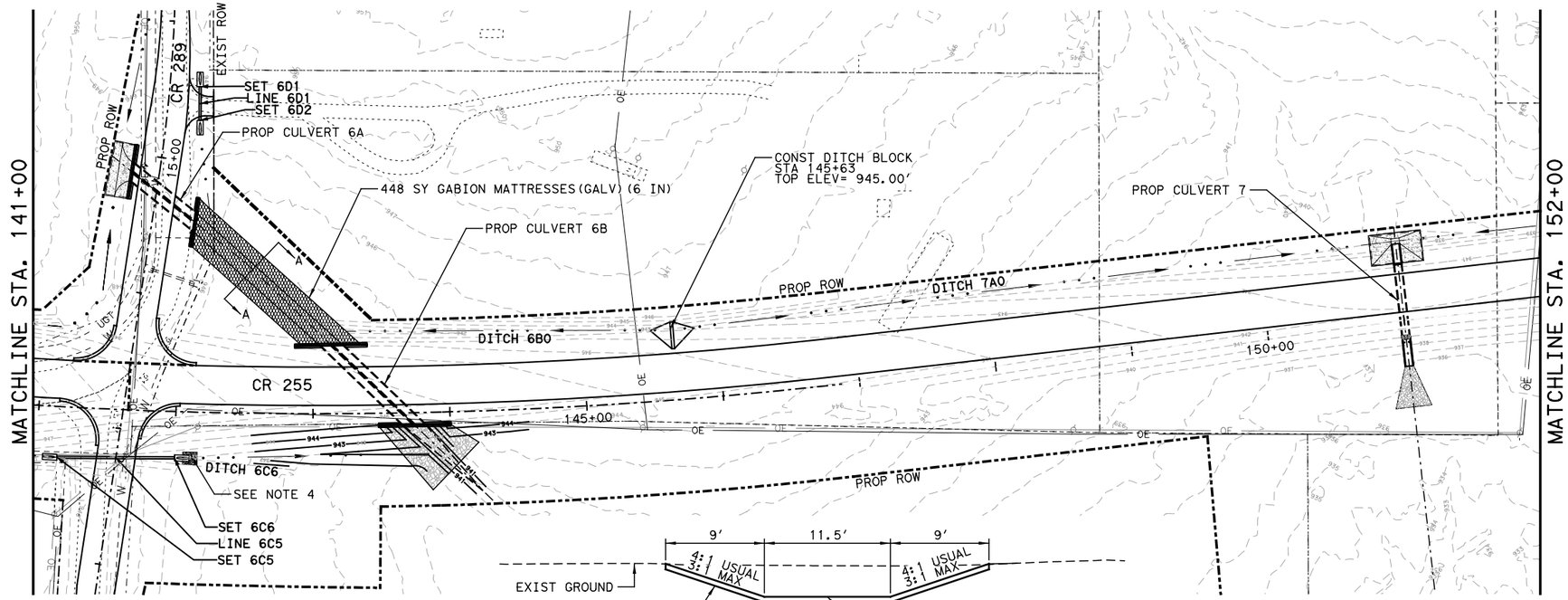

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
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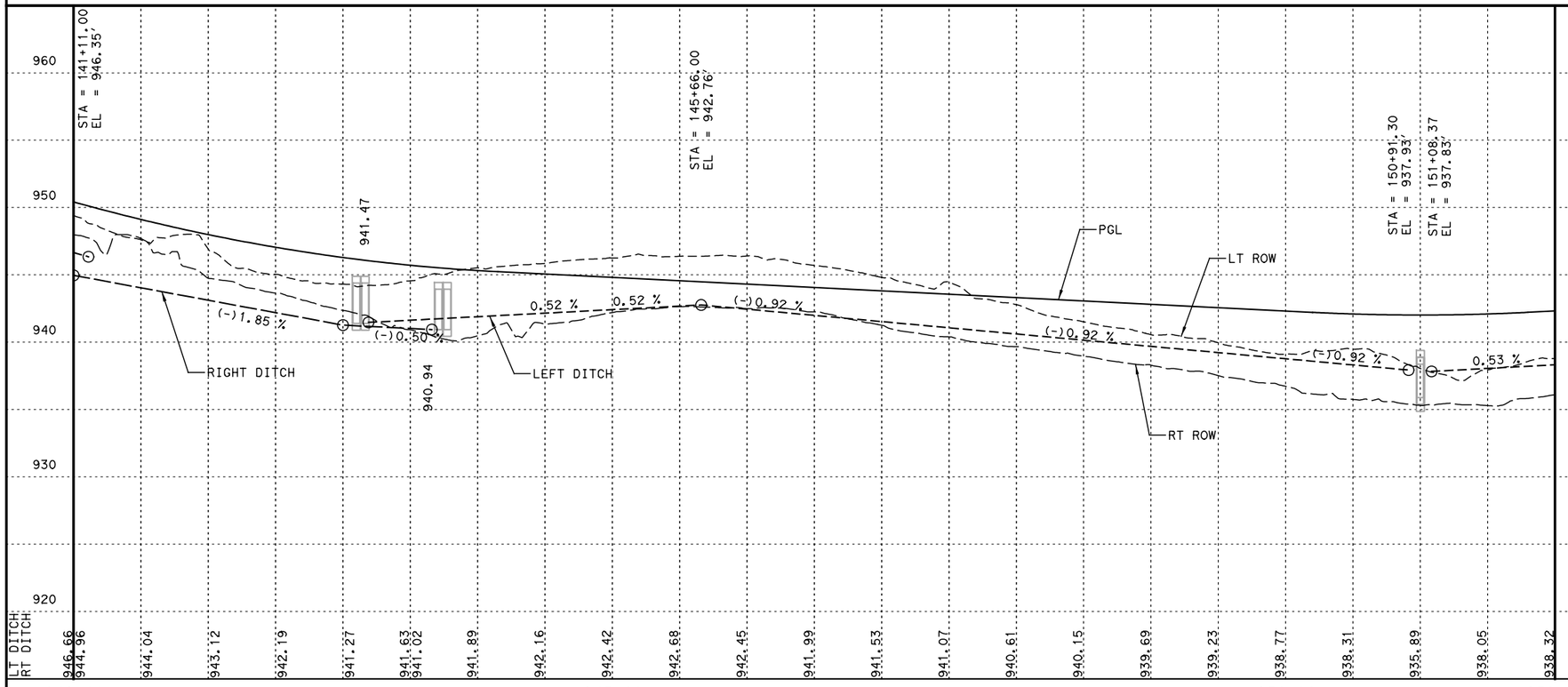
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 141+00 TO 152+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 13 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	205

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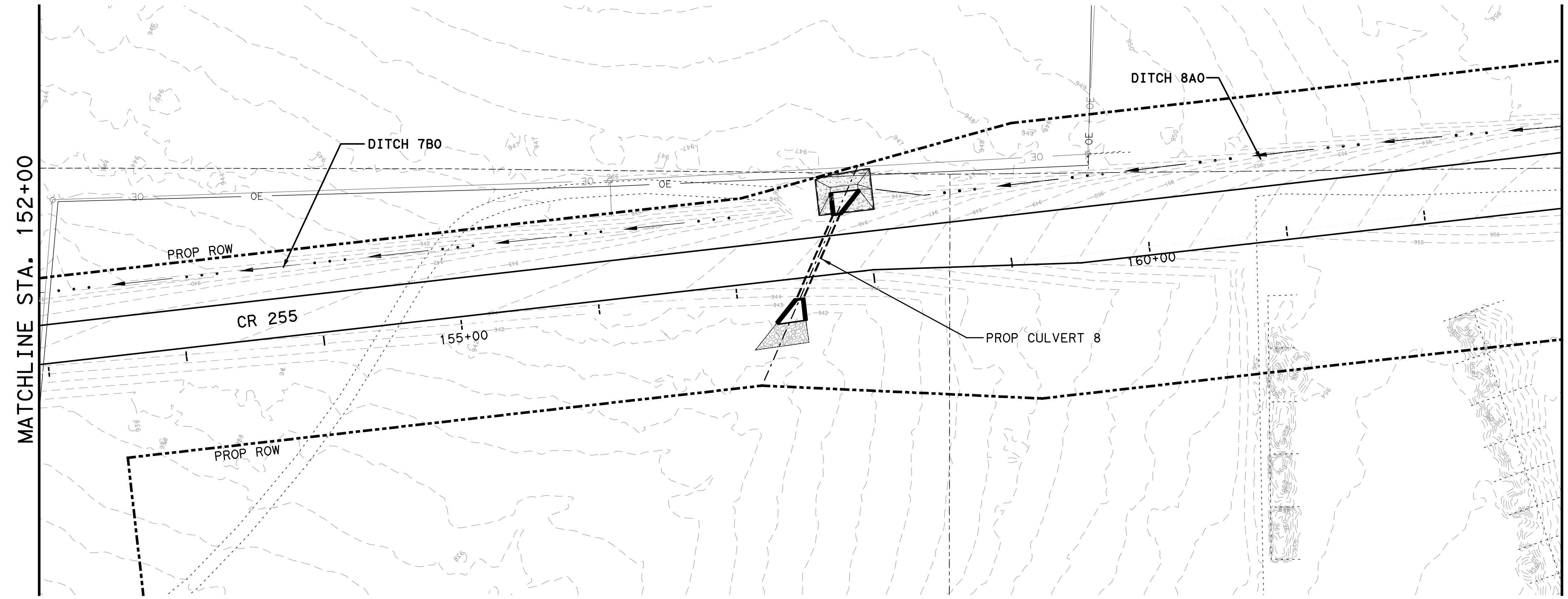

SCALE: 1" = 100'

LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
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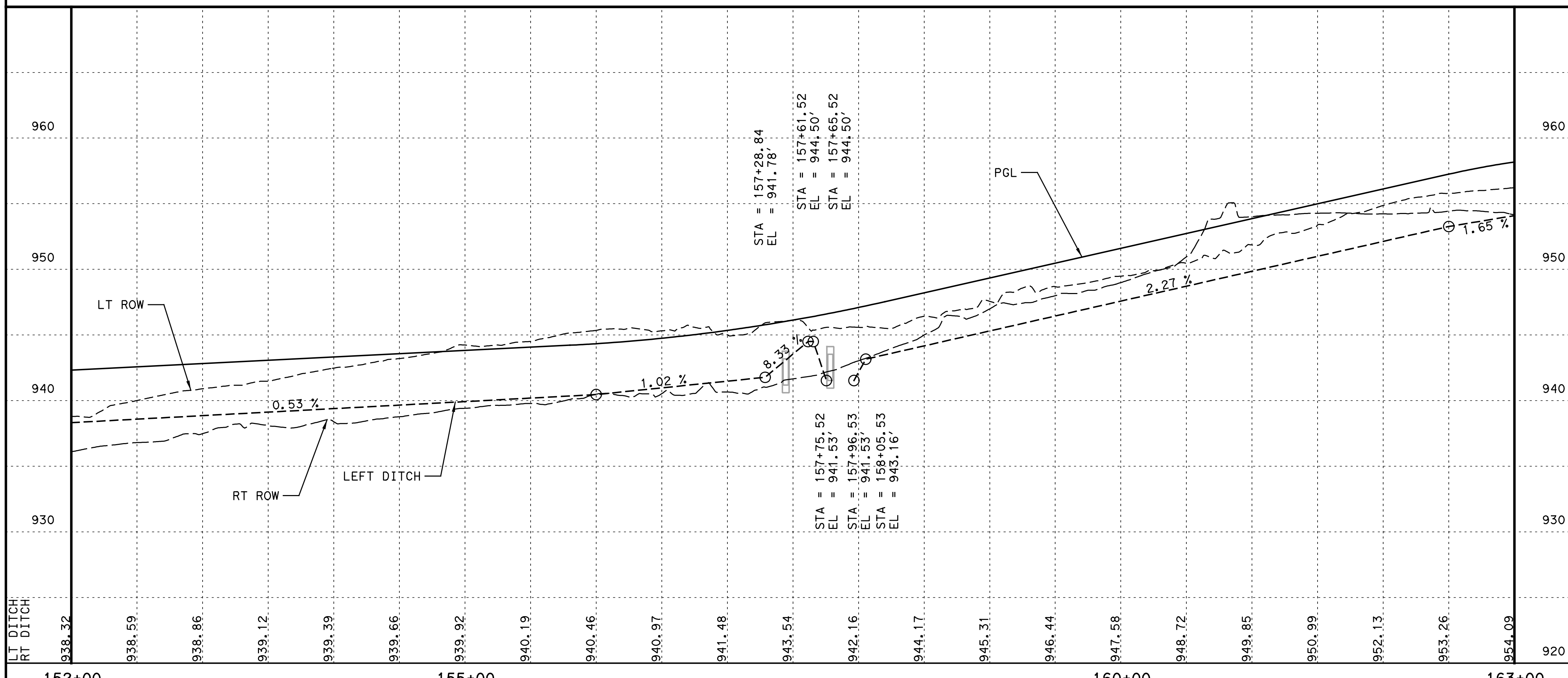
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 152+00 TO 163+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 14 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 206

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0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

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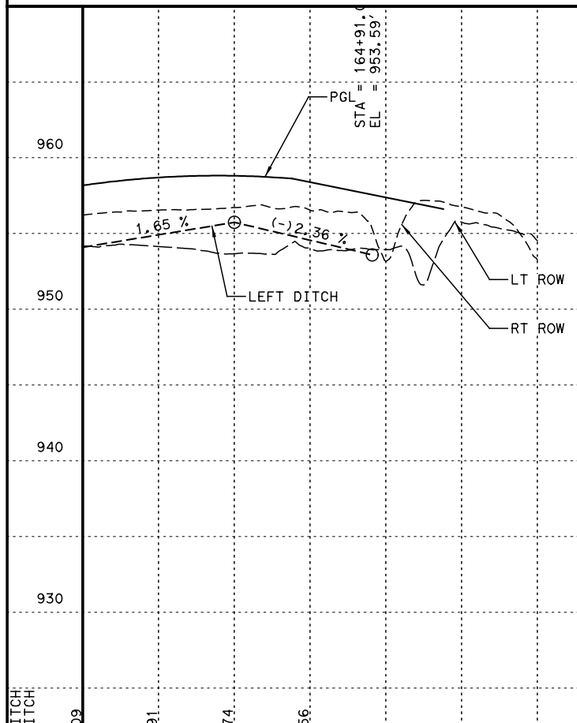

NO.	REVISION	BY	DATE

CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DITCH PLAN & PROFILE
STA 163+00 TO END PROJECT

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 15 OF 15

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	207

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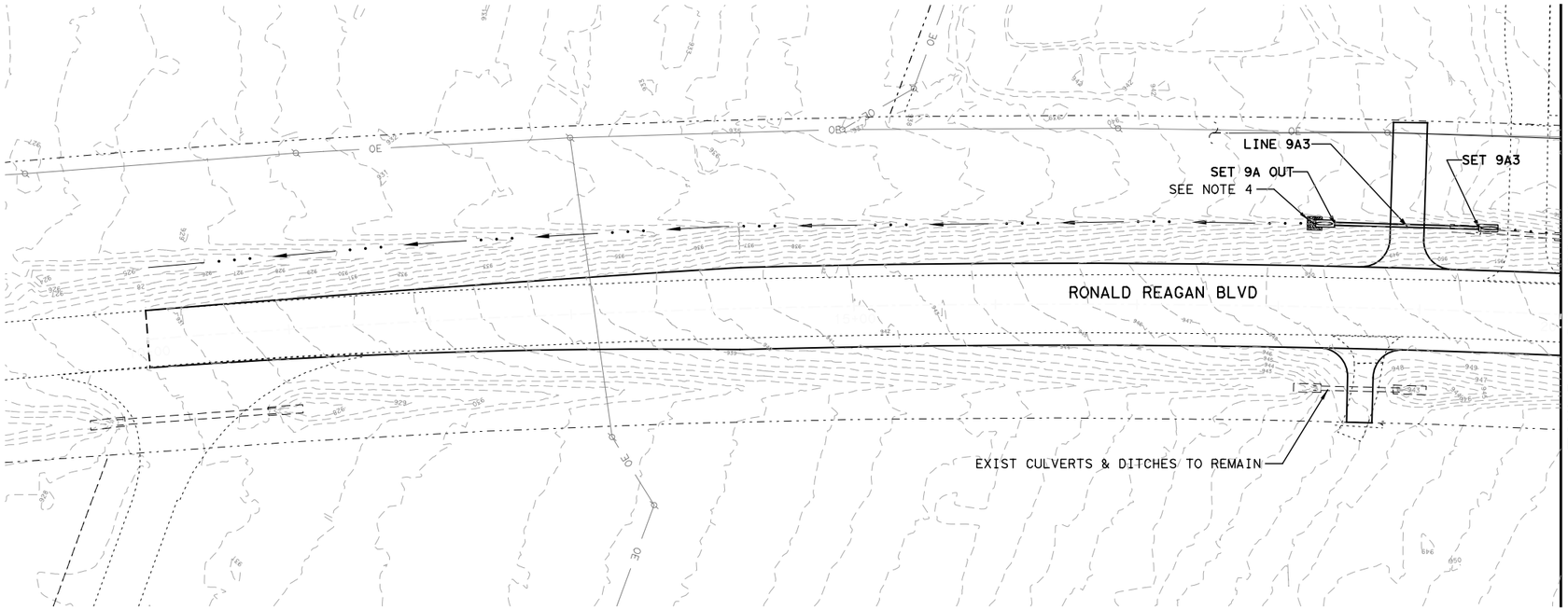


0 50 100

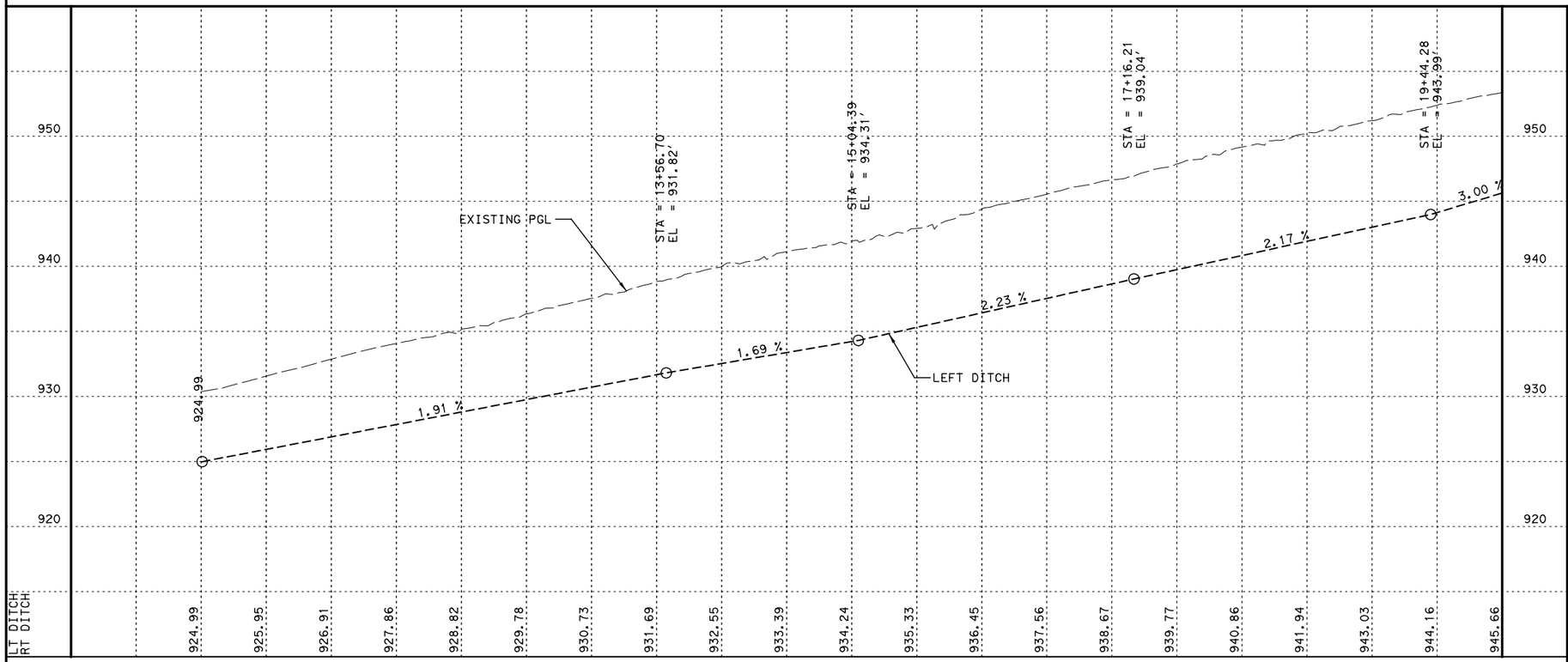
SCALE: 1" = 100'

LEGEND

- DITCH XX — DITCH FLOWLINE
- PROP CONTOUR
- EXIST ROW
- EXIST TOPOGRAPHY
- 15"W — EXIST UG UTILITY
- OT — EXIST OH UTILITY
- EXIST CULVERTS
- PROP ROADWAY
- PROP WINGWALLS/CONTOURS
- PROP CULVERT
- PROP ROW
- EXIST STORM SEWER
- PROP STORM SEWER
- PROP SET
- SRB TYPE 2, CLASS H (MUST BE TRM)
- RIPRAP (CONC)
- RIPRAP (STONE)
- DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

RONALD REAGAN BLVD

BEGIN PROJECT TO STA 20+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	208

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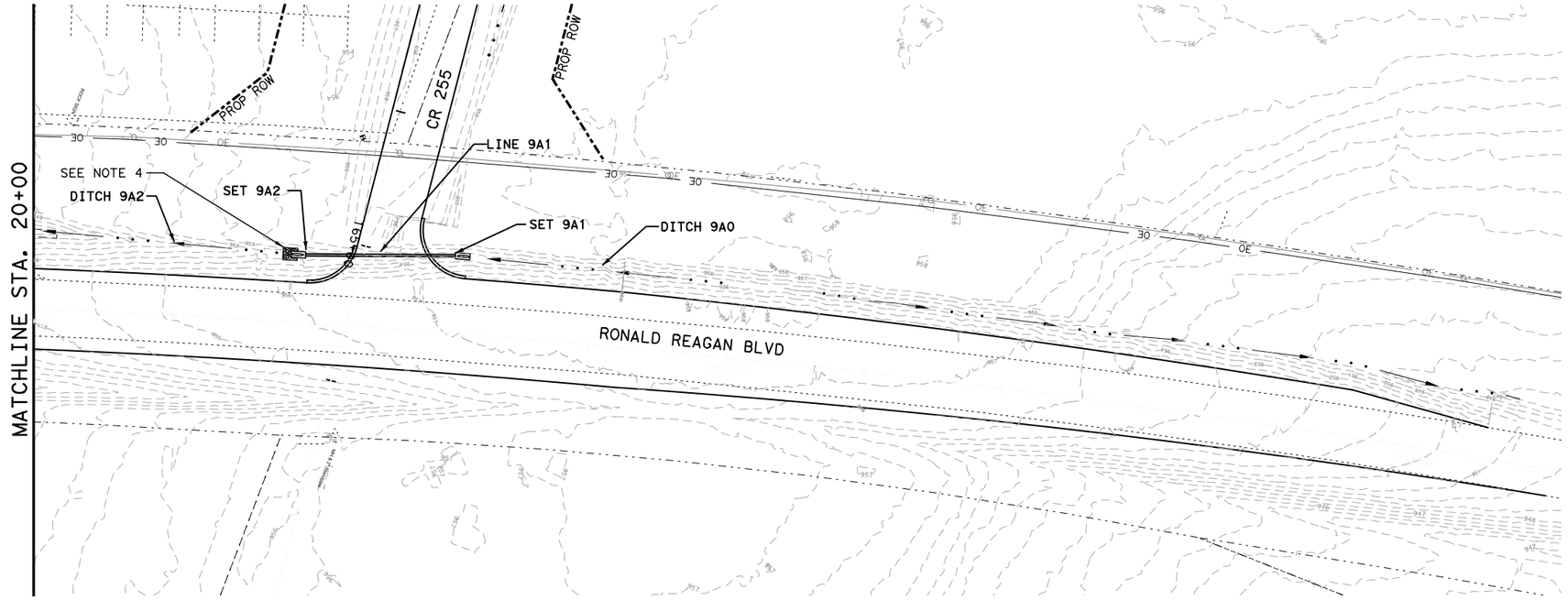
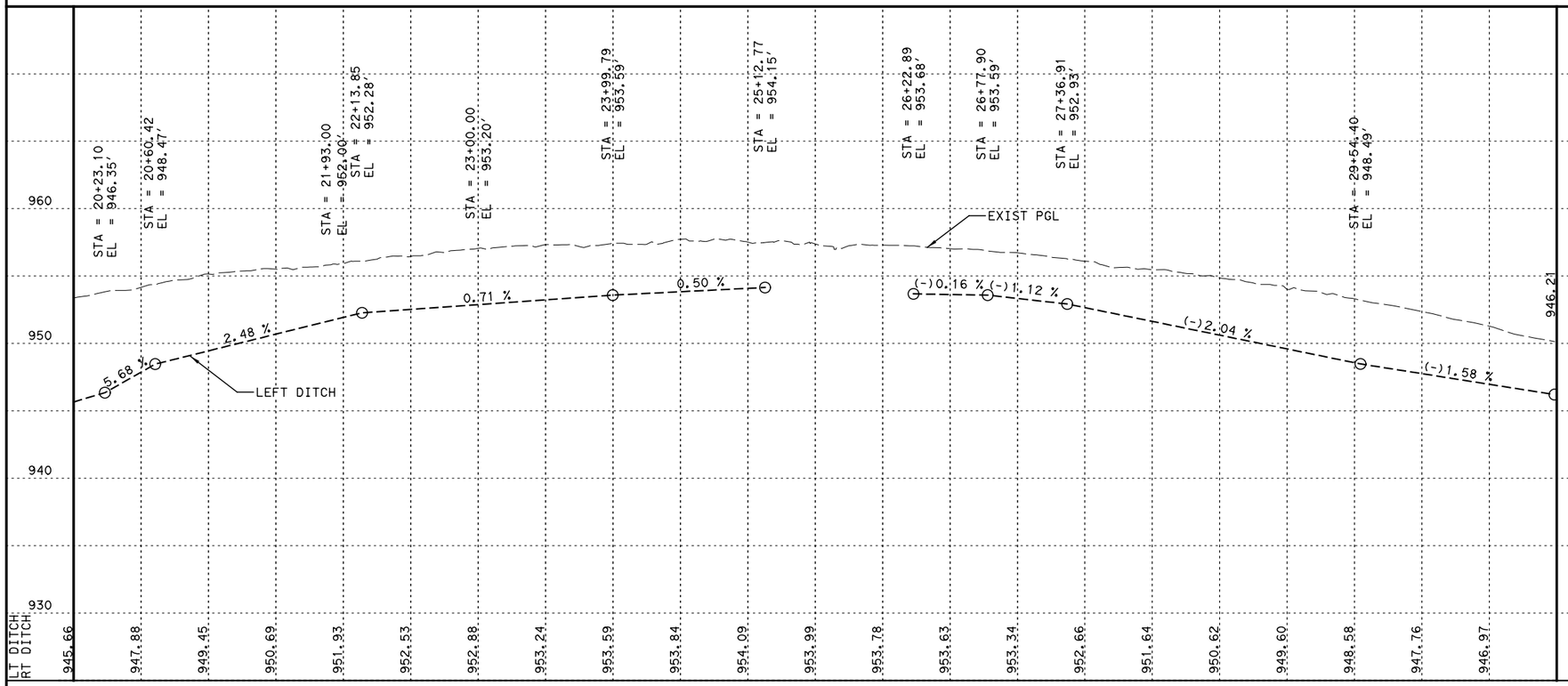


LEGEND

DITCH XX	DITCH FLOWLINE
	PROP CONTOUR
	EXIST ROW
	EXIST TOPOGRAPHY
15"W	EXIST UG UTILITY
OT	EXIST OH UTILITY
	EXIST CULVERTS
	PROP ROADWAY
	PROP WINGWALLS/CONTOURS
	PROP CULVERT
	PROP ROW
	EXIST STORM SEWER
	PROP STORM SEWER
	PROP SET
	SRB TYPE 2, CLASS H (MUST BE TRM)
	RIPRAP (CONC)
	RIPRAP (STONE)
	DITCH BLOCK (W/TOP ELEV)

DRAINAGE PLAN NOTES:

1. FOR REFERENCE AND IDENTIFICATION PURPOSES, THE LINK ID MATCHES UPSTREAM NODE ID.
2. SEE REMOVAL PLANS FOR DRAINAGE STRUCTURES TO BE REMOVED.
3. ALL PRECAST SETS SHALL HAVE RIPRAP APRONS PER THE PSET-RR STD. DROP INLETS SHALL HAVE RIPRAP APRONS PER THE APPLICABLE STD.
4. REFER TO THE OUTLET PROTECTION DETAILS FOR SIZE AND SPEC INFO FOR EACH STONE RIPRAP APRON.
5. REFER TO THE DRIVEWAY CULVERT SUMMARY FOR LOCATION AND SPEC INFO.
6. DITCHES ARE SHOWN THROUGH THE DRIVEWAYS AND CROSS STREETS FOR CLARITY PURPOSES.



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
RONALD REAGAN BLVD
STA 20+00 TO END PROJECT

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	209

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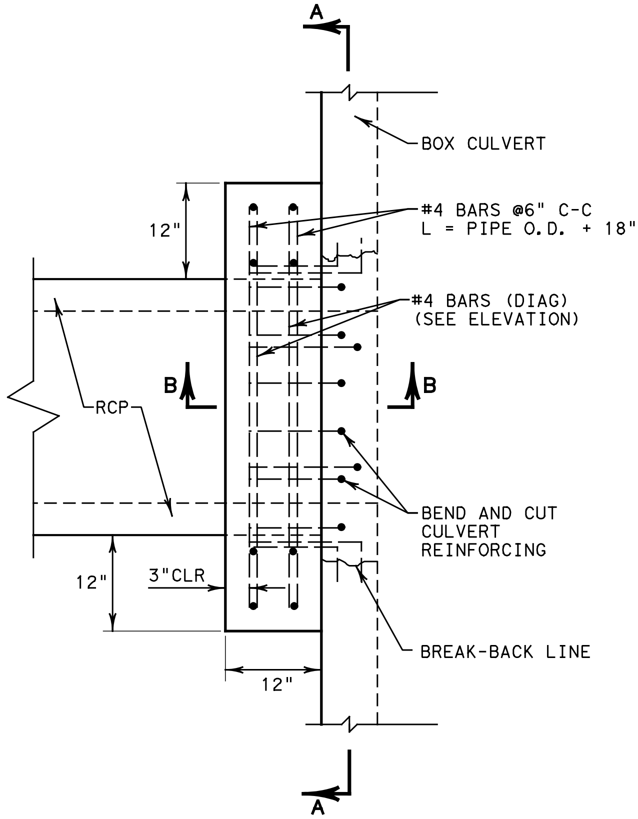
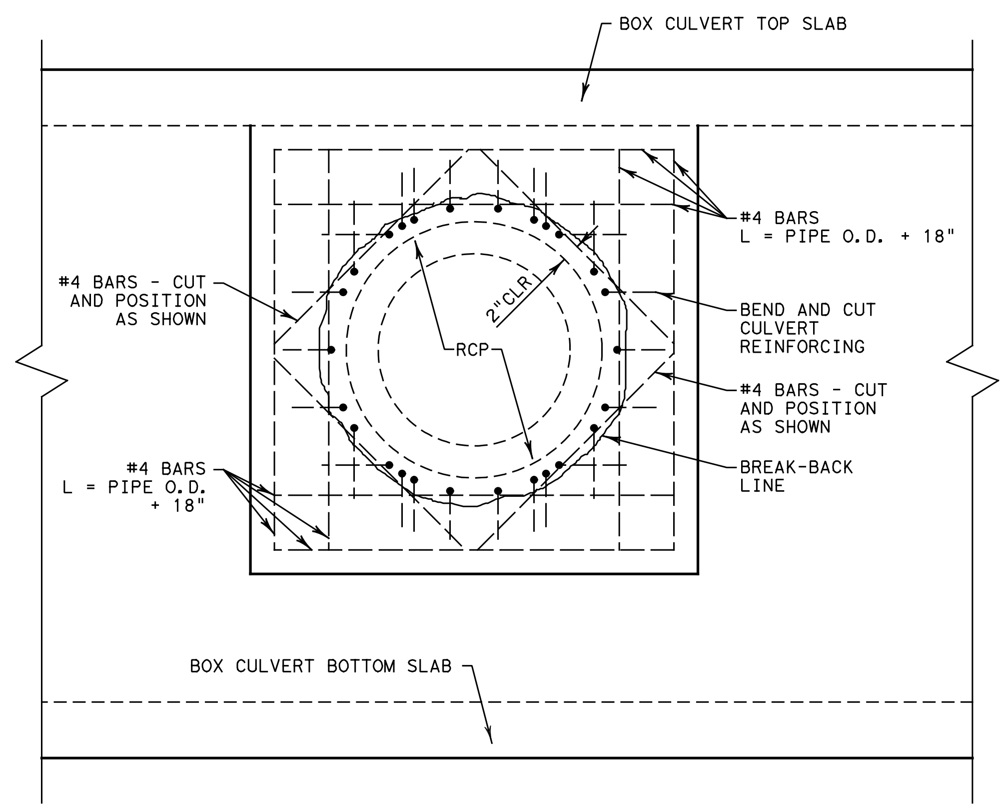
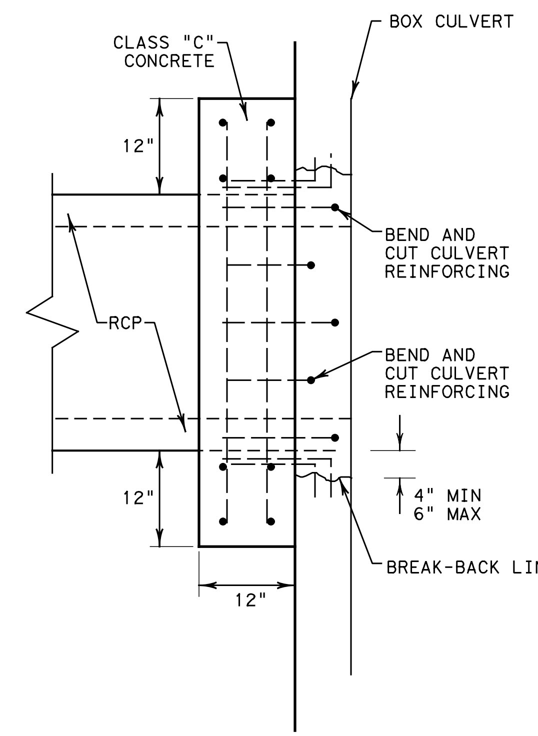


PLAN VIEW



SECTION A-A



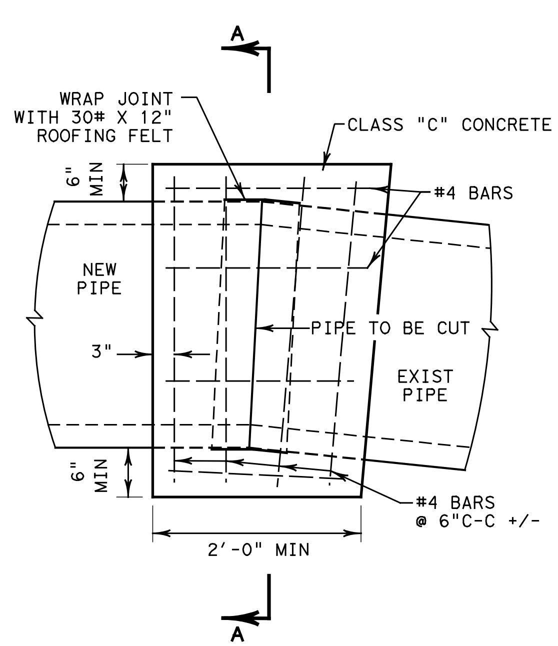
SECTION B-B

PIPE STUB-IN CONNECTION TO BOX CULVERT OR EXISTING DRAINAGE STRUCTURE

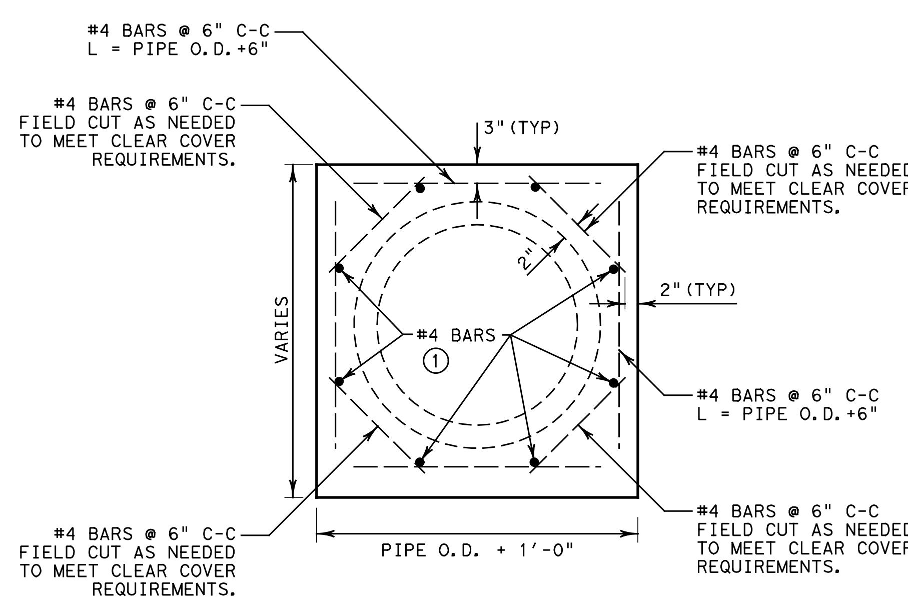
N.T.S.

PIPE STUB-IN GENERAL NOTES

1. SAW CUT A MAXIMUM 1/2" DEPTH AT BREAK-BACK LINE. USE REMOVAL METHODS THAT WILL NOT DAMAGE REMAINING CONCRETE OR CULVERT REINFORCING.
2. EXPOSE AND CLEAN BOX CULVERT REINFORCING. BEND BARS INTO PROPOSED CONNECTION AND TIE TO CONNECTION REINFORCING.
3. ROUGHEN AND CLEAN EXISTING CONCRETE SURFACES THAT ARE IN CONTACT WITH NEW CONCRETE BEFORE PLACING FORMS.
4. MATERIAL & LABOR FOR PIPE/BOX CONNECTIONS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEMS 462 AND 464.



PLAN/ELEVATION



(1) PLACE AS SHOWN

SECTION A-A

PIPE COLLAR DETAIL

FOR HORIZONTAL OR VERTICAL PLACEMENT
N.T.S.

PIPE COLLAR GENERAL NOTES

1. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE A SMOOTH JOINT ALONG THE INSIDE WALL OF PIPE.
2. ANY SPILLAGE OF CONCRETE THROUGH THE JOINT SHALL BE REMOVED AND THE INSIDE PIPE SURFACES SMOOTHED AS DIRECTED BY THE ENGINEER.
3. PIPE COLLARS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 464.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
Clay E. Gann, P.E.
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG
CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE DETAILS PIPE COLLARS AND BOX CONNECTIONS

SHEET 1 OF 4

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	210

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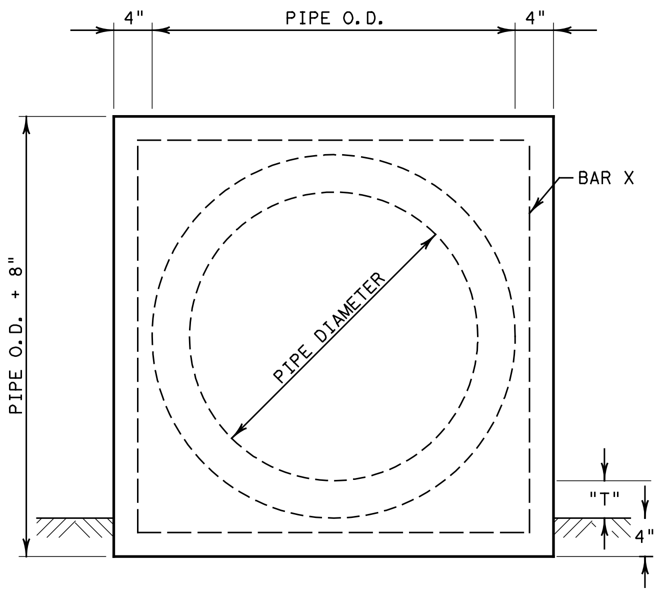
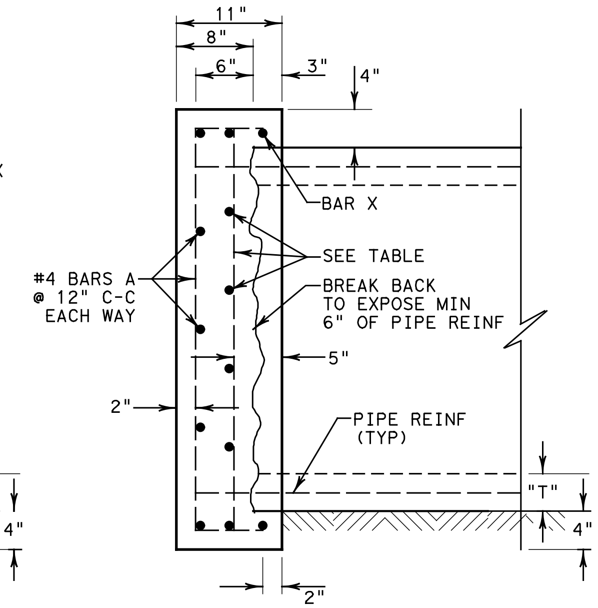
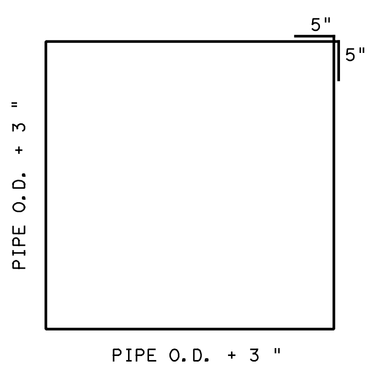


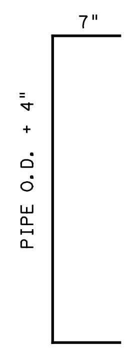
FRONT ELEVATION



SIDE ELEVATION



#4 BAR X



#4 BAR A

INNER REINFORCING SIZE/SPACING		
PIPE DIA (IN)	MAXIMUM DEPTH	
	15′	30′
<48	#4 @ 12" C-C	#4 @ 12" C-C
60	#4 @ 12" C-C	#4 @ 10" C-C
72	#4 @ 12" C-C	#5 @ 10" C-C
84	#4 @ 10" C-C	#5 @ 8" C-C

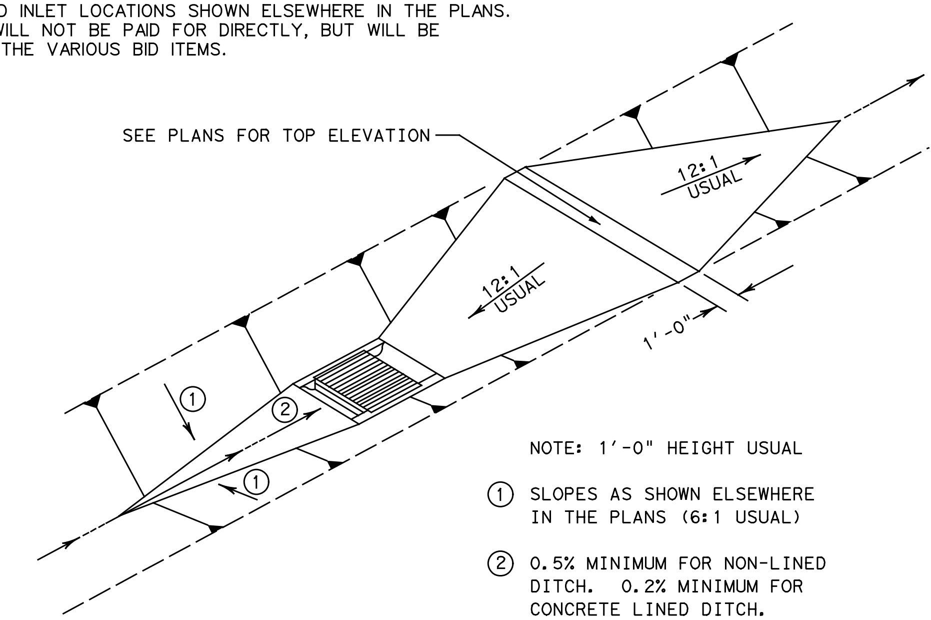
PIPE END CAP GENERAL NOTES

1. "T" = PIPE WALL THICKNESS.
2. ALL CONCRETE SHALL BE CLASS "C".
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. OCTAGONAL PLUG MAY BE USED IN LIEU OF SQUARE. PROVIDE 4" MINIMUM COVER OVER OUTSIDE OF PIPE. DIMENSIONS OF PIPE PLUG AND REINFORCING TO BE AS APPROVED.

DRAINAGE PIPE END CAP OR PLUG DETAILS
N.T.S.

DITCH BLOCK GENERAL NOTES

1. DITCH BLOCK AND INLET LOCATIONS SHOWN ELSEWHERE IN THE PLANS.
2. DITCH BLOCKS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.

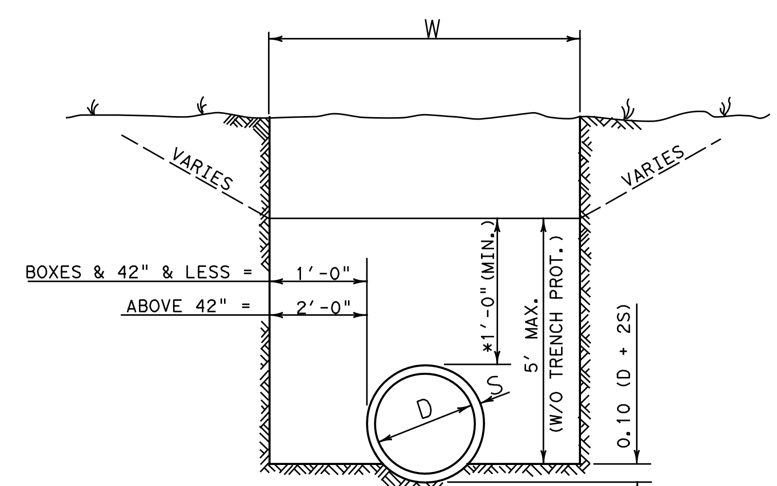


NOTE: 1′-0" HEIGHT USUAL

(1) SLOPES AS SHOWN ELSEWHERE IN THE PLANS (6:1 USUAL)

(2) 0.5% MINIMUM FOR NON-LINED DITCH. 0.2% MINIMUM FOR CONCRETE LINED DITCH.

DITCH BLOCK DETAILS
N.T.S.



CLASS "C" BEDDING EXCEPT AS NOTED
*SEE STANDARD SPECIFICATION ITEM 400, EXCEPT WHERE NEGATIVE PROJECTION IS USED.

STRUCTURE EXCAVATION (TRENCH)

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE DETAILS PLUGS, DITCH BLOCKS & STRUCTURAL EXCAVATION

SHEET 2 OF 4

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255

DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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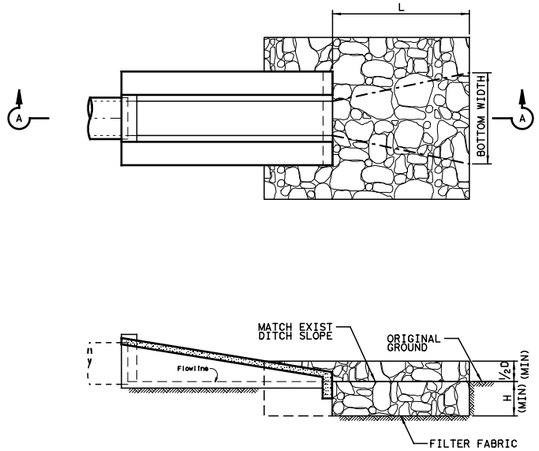

SECTION A-A

RIPRAP APRON AT CULVERT OUTLET WITH DITCH

CULVERT ID	CULVERT WIDTH D (FT)	DISCHARGE PER BARREL Q (CFS)	NORMAL DEPTH D(N) (FT)	CRITICAL DEPTH D(C) (FT)	OUTLET DEPTH D(O) (FT)	TAILWATER DEPTH TW (FT)	OUTLET VELOCITY V (FPS)	ADJUSTED D D' (FT)	RIPRAP SIZE D(50) (FT)	RIPRAP SIZE D(50) (IN)	TXDOT RIPRAP SIZE	APRON LENGTH L (FT)	APRON DEPTH H (FT)	APRON AREA A (SQ. FT)	APRON VOLUME VOL (CY)
LINE 1A1	1.5	6.24	0.73	0.97	0.75	0.60	7.02	1.11	0.33	4.32	RIPRAP (STONE) (PROTECTION) (12 IN)	6	1.15	83.25	4
LINE 1A3	4	64.5	1.88	2.01	3.00	1.60	5.39	4.00	0.50	6.64	RIPRAP (STONE) (PROTECTION) (12 IN)	20	1.21	634	29
LINE 1A5	5	96	1.55	2.26	3.00	2.00	6.42	5.00	0.51	6.71	RIPRAP (STONE) (PROTECTION) (12 IN)	25	1.22	962.5	44
LINE 1B1	2	10.5	1.13	1.16	2.00	0.80	3.33	2.00	0.23	2.98	N/A				
LINE 1B3	3	22.45	0.68	1.20	0.72	1.20	10.45	1.84	0.46	6.10	N/A				
LINE 2A1	2	16.9	1.44	1.48	1.44	0.80	7.00	1.72	0.52	6.87	RIPRAP (STONE) (PROTECTION) (12 IN)	10	1.25	161	8
LINE 2A3	2	17.6	1.39	1.51	1.98	0.80	5.62	2.00	0.45	5.92	RIPRAP (STONE) (PROTECTION) (12 IN)	10	1.48	181	10
LINE 2A5	2	20.4	1.14	1.62	1.29	0.80	9.51	1.57	0.75	9.94	RIPRAP (STONE) (PROTECTION) (12 IN)	10	1.81	181	13
LINE 2A7	3	45.1	1.22	1.92	1.51	1.20	9.99	2.11	0.98	12.89	RIPRAP (STONE) (PROTECTION) (24 IN)	18	2.15	378	31
LINE 2A9	3	46.6	1.25	1.96	1.53	1.20	10.19	2.12	1.01	13.36	RIPRAP (STONE) (PROTECTION) (24 IN)	18	2.23	378	32
LINE 2B0	1.5	2.89	0.64	0.65	0.64	0.60	4.04	1.07	0.12	1.64	N/A				
LINE 2C1	1.5	2.73	0.59	0.63	0.59	0.60	4.19	1.05	0.12	1.56	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.41	83.25	2
LINE 2C3	1.5	4.19	0.56	0.78	0.57	0.60	6.85	1.03	0.21	2.82	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.75	83.25	3
LINE 2C5	1.5	5.2	0.73	0.88	0.73	0.60	6.10	1.11	0.26	3.40	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.90	83.25	3
LINE 2C9	1.5	5.94	0.83	0.94	0.84	0.60	5.87	1.17	0.29	3.81	RIPRAP (STONE) (PROTECTION) (12 IN)	6	1.01	83.25	4
LINE 3A1	1.5	5.58	0.72	0.91	0.74	0.60	6.44	1.11	0.28	3.74	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.99	83.25	4
LINE 3A3	1.5	7.69	0.91	1.07	0.93	0.60	6.72	1.21	0.39	5.14	RIPRAP (STONE) (PROTECTION) (12 IN)	7.5	1.28	99	5
LINE 3C3	1.5	0.85	0.29	0.34	0.29	0.60	3.54	0.90	0.03	0.41	N/A				
LINE 3D0	1.5	1.83	0.48	0.51	0.48	0.60	3.71	0.99	0.07	0.98	N/A				
LINE 3D2	1.5	1.83	0.48	0.51	0.48	0.60	3.71	0.99	0.07	0.98	N/A				
LINE 4A1	2	23.6	1.42	1.72	1.49	0.80	9.42	1.71	0.82	10.81	RIPRAP (STONE) (PROTECTION) (12 IN)	12	1.80	186	13
LINE 4C1	1.5	0.87	0.26	0.35	0.26	0.60	4.25	0.88	0.03	0.43	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.11	83.25	1
LINE 5A1	1.5	2.06	0.51	0.54	0.51	0.60	3.87	1.01	0.09	1.13	N/A				
LINE 5A3	1.5	5.41	0.54	0.90	0.57	0.60	8.87	1.02	0.30	4.03	RIPRAP (STONE) (PROTECTION) (12 IN)	6	1.07	83.25	4
LINE 5B1	1.5	12.9	0.94	1.35	0.98	0.60	10.55	1.22	0.77	10.10	RIPRAP (STONE) (PROTECTION) (12 IN)	9	1.68	114.75	8
LINE 5B3	4	95.1	0.97	2.00	1.21	1.60	19.59	2.49	1.59	21.02	N/A				
LINE 5C1	1.5	1.99	0.32	0.53	0.32	0.60	7.10	0.91	0.09	1.23	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.33	83.25	2
LINE 5C3	1.5	2.81	0.40	0.64	0.40	0.60	7.39	0.95	0.14	1.85	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.49	83.25	2
LINE 5C5	1.5	3.58	0.45	0.72	0.46	0.60	7.90	0.98	0.19	2.46	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.65	83.25	3
LINE 5D1	1.5	2.18	0.29	0.56	0.29	0.60	9.02	0.90	0.11	1.42	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.38	83.25	2
LINE 5D3	1.5	4.29	0.71	0.79	1.50	0.60	2.42	1.50	0.13	1.76	N/A				
LINE 6C1	1.5	0.84	0.24	0.34	0.24	0.60	4.57	0.87	0.03	0.41	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.11	83.25	1
LINE 6C3	1.5	1.4	0.30	0.44	0.30	0.60	5.54	0.90	0.06	0.78	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.21	83.25	1
LINE 6C5	1.5	3.29	0.47	0.69	0.47	0.60	6.89	0.99	0.16	2.17	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.57	83.25	2
LINE 9A1	1.5	1.26	0.30	0.42	0.30	0.60	5.08	0.90	0.05	0.68	RIPRAP (STONE) (PROTECTION) (12 IN)	6	0.18	83.25	2
LINE 9A3	2	3.3	0.40	0.64	0.40	0.80	7.26	1.20	0.09	1.25	RIPRAP (STONE) (PROTECTION) (12 IN)	8	0.33	136	2
LINE 2C11	1.5	6.14	0.84	0.96	0.85	0.60	5.96	1.17	0.30	3.96	RIPRAP (STONE) (PROTECTION) (12 IN)	6	1.05	83.25	4
LINE 2C13	1.5	7.52	0.97	1.06	0.97	0.60	6.22	1.23	0.37	4.84	RIPRAP (STONE) (PROTECTION) (12 IN)	6	1.28	83.25	4
LINE 2C15	1.5	8.97	0.84	1.16	0.88	0.60	8.31	1.17	0.50	6.58	RIPRAP (STONE) (PROTECTION) (12 IN)	7.5	1.20	99	5
LINE 2C17	2	12.3	0.87	1.26	0.92	0.80	8.73	1.43	0.43	5.72	RIPRAP (STONE) (PROTECTION) (12 IN)	10	1.43	161	9

NOTES:

1. FOR SIMPLICITY, DETAIL ONLY SHOWS ONE BARREL. FOR MULTIPLE BARREL CULVERTS, THE RIPRAP APRON WIDTH SHALL BE ADJUSTED TO INCLUDE THE WIDTH OF ADDITIONAL BARRELS AND ANY SPACE BETWEEN THE ADDITIONAL SETS.
2. WITH ENGINEER'S APPROVAL, THE LIMITS OF RIPRAP MAY BE ADJUSTED IN THE FIELD TO BETTER FIT ACTUAL FIELD CONDITIONS.
3. REFER TO TXDOT SPEC ITEM 432, "RIPRAP" FOR CONSTRUCTION AND PAYMENT DETAILS.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE DETAILS

DRIVEWAY CULVERT OUTLET PROTECTION

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	212

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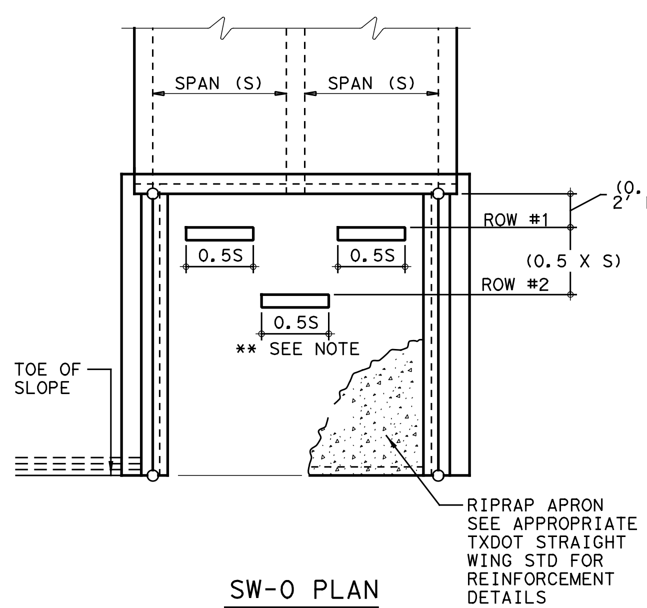
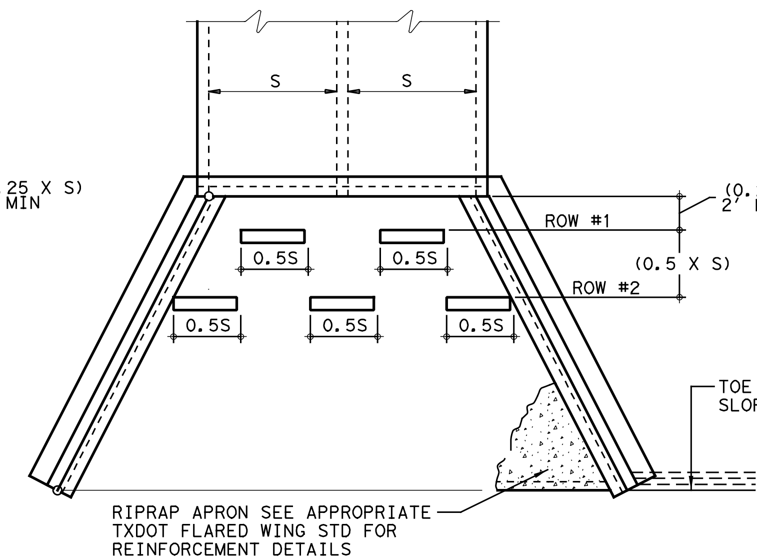
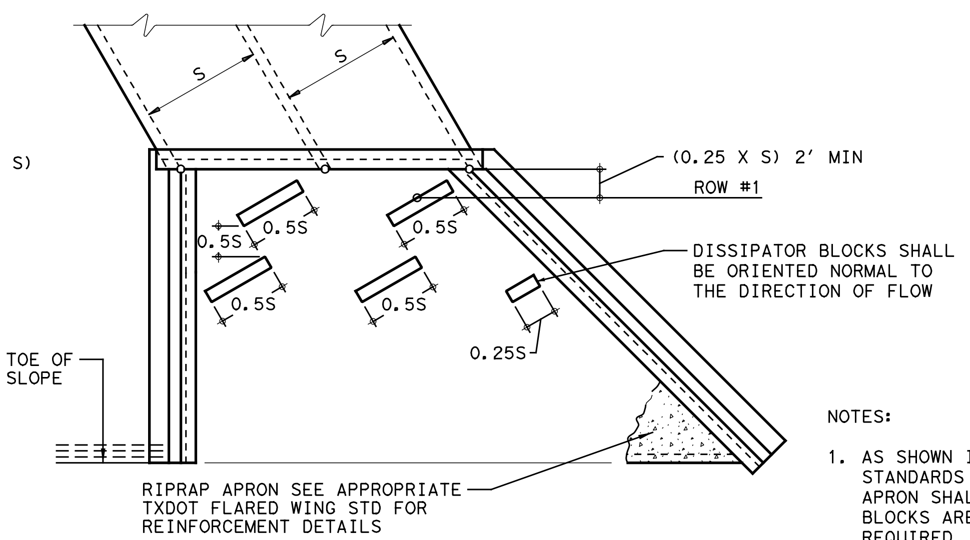


SW-0 PLAN

**NOTE: FOR SBC OR MBC WITH ODD # OF BARRELS, THE OUTSIDE DISSIPATORS ON THE SECOND ROW SHALL HAVE A WIDTH = (0.25 X S).



CH-FW-0/FW-0 PLAN

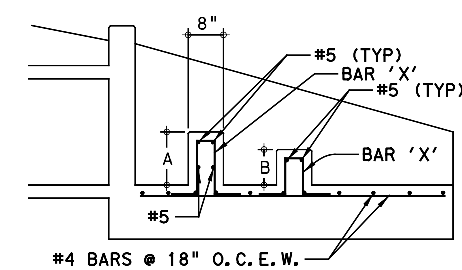


FW-S PLAN

(SHOWING 30° SKEW)

NOTES:

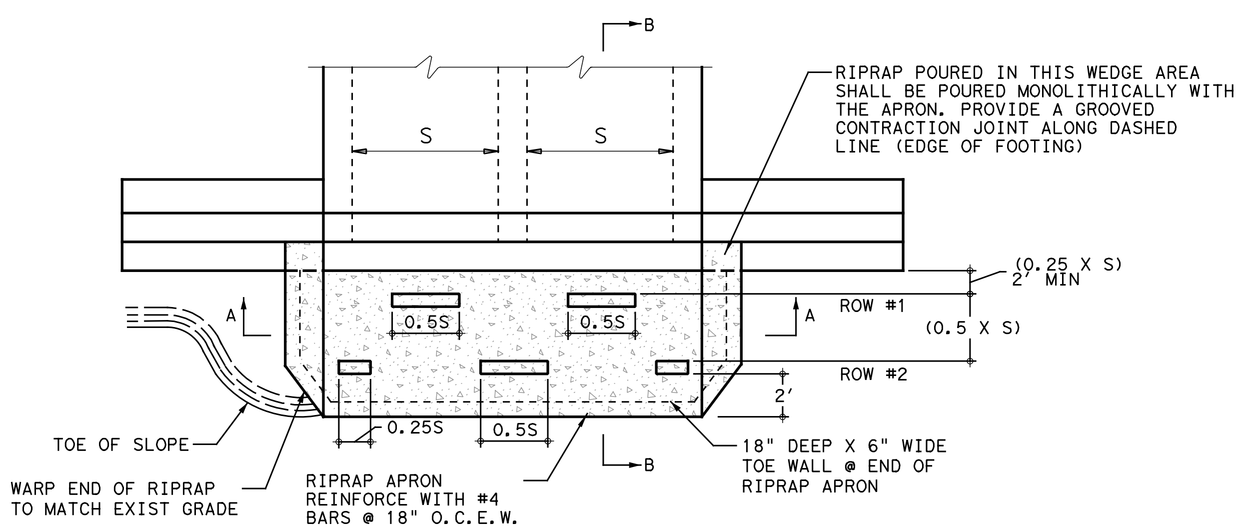
1. AS SHOWN IN THE APPLICABLE HEADWALL & WINGWALL STANDARDS AND THE BCS SHEET, A CONCRETE RIPRAP APRON SHALL BE PROVIDED WHEN ENERGY DISSIPATION BLOCKS ARE SPECIFIED. WHEN DISSIPATORS ARE REQUIRED, APRON REINFORCEMENT SHALL BE #4 BARS ON 18" O.C.E.W. ALL CONCRETE FOR THE RIPRAP APRON AND DISSIPATOR BLOCKS SHALL BE CLASS "C". RIPRAP SHALL BE PAID FOR UNDER ITEM 432, "RIPRAP(CONC)(5 IN)".
2. ALL EXTERNAL VISIBLE CORNERS SHALL BE CHAMFERED.
3. ROW #1 ENERGY DISSIPATORS SHALL BE LOCATED AT MID-SPAN. ROW #2 ENERGY DISSIPATORS SHALL STRADDLE ROW #1.
4. REFER TO TXDOT SPEC 432, "RIPRAP" FOR REBAR CLEARANCE REQUIREMENTS.



SIDE VIEW

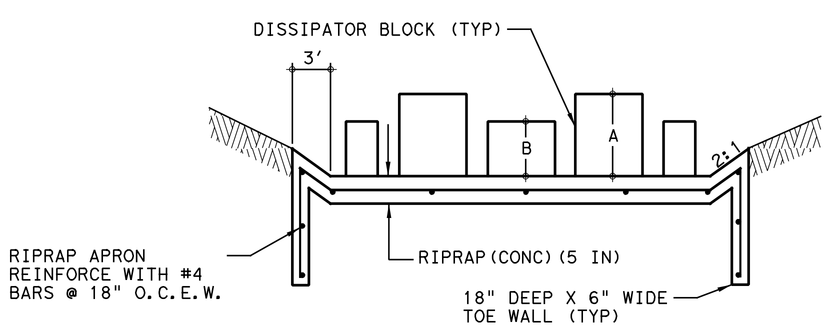
"A" IS EQUAL TO ONE-HALF THE STRUCTURE HEIGHT/PIPE DIAMETER, BUT NO HIGHER THAN 30".

"B" IS EQUAL TO ONE-THIRD THE STRUCTURE HEIGHT/PIPE DIAMETER, BUT NO HIGHER THAN 30".



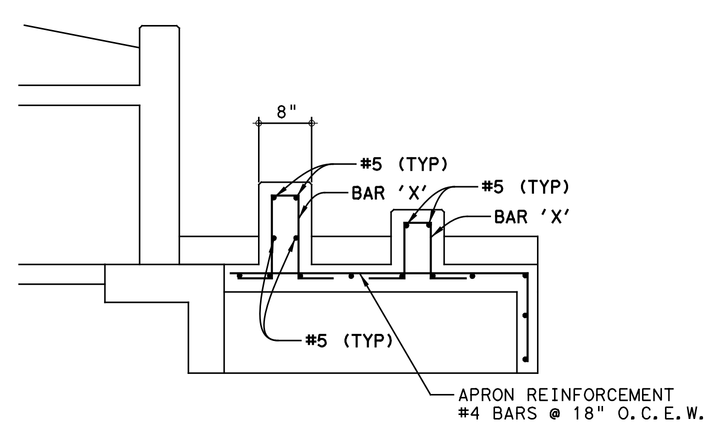
PW PLAN

NTS



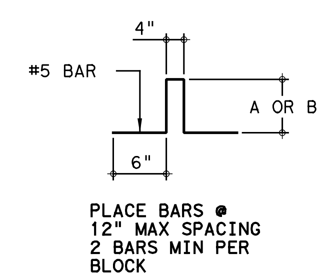
SECTION A-A

NTS



SECTION B-B

NTS



BAR 'X' DETAIL

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE DETAILS

ENERGY DISSIPATORS

SHEET 4 OF 4

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 213

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PROJECT TSS SUMMARY									
Treatement Standard	County	Average Annual Precipitation	Drainage Area	Impervious Cover		TSS Load		TSS Removal Required	TSS Removal Actual
		P	A	An		L		Lm	Lr
				Exist	Prop	Exist	Prop		
		Inches	acres	acres	acres	lbs	lbs	lbs	lbs
TCEQ	Williamson	32	68.48	8.58	14.84	10,533	17,351	5,449	5,854

CR 255 - TSS REMOVED BY BMPs WITHIN THE CONTRIBUTING ZONE							
			VFS				TOTAL TSS LOAD REMOVED
BMP ID	COUNTY	AVERAGE ANNUAL PRECIPITATION	TOTAL AREA	IMPERVIOUS COVER	BMP EFFICIENCY	TSS LOAD REMOVED	
		P	A	A		L	L
			ACRES	ACRES	%	LBS	LBS
VFS-1	WILLIAMSON	32	0.61	0.61	85	574	574
VFS-2	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-3	WILLIAMSON	32	0.24	0.24	85	226	226
VFS-4	WILLIAMSON	32	0.36	0.36	85	339	339
VFS-5	WILLIAMSON	32	0.03	0.03	85	28	28
VFS-6	WILLIAMSON	32	0.37	0.37	85	348	348
VFS-7	WILLIAMSON	32	0.15	0.15	85	141	141
VFS-8	WILLIAMSON	32	0.15	0.15	85	141	141
VFS-9	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-10	WILLIAMSON	32	0.19	0.19	85	179	179
VFS-11	WILLIAMSON	32	0.61	0.61	85	574	574
VFS-12	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-13	WILLIAMSON	32	0.04	0.04	85	38	38
VFS-14	WILLIAMSON	32	0.13	0.13	85	122	122
VFS-15	WILLIAMSON	32	0.06	0.06	85	56	56
VFS-16	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-17	WILLIAMSON	32	0.18	0.18	85	169	169
VFS-18	WILLIAMSON	32	0.28	0.28	85	264	264
VFS-19	WILLIAMSON	32	0.13	0.13	85	122	122
VFS-20	WILLIAMSON	32	0.07	0.07	85	66	66
VFS-21	WILLIAMSON	32	0.12	0.12	85	113	113
VFS-22	WILLIAMSON	32	0.32	0.32	85	301	301
VFS-23	WILLIAMSON	32	0.41	0.41	85	386	386
VFS-24	WILLIAMSON	32	0.43	0.43	85	405	405
VFS-25	WILLIAMSON	32	0.20	0.20	85	188	188
VFS-26	WILLIAMSON	32	0.50	0.50	85	471	471
TOTAL							5,854

THE FOLLOWING TCEQ REQUIREMENTS (FORM TCEQ-0592A, REV. 7/15/15) ARE APPLICABLE TO ALL WORK THAT DISTURBS 5 OR MORE ACRES IN THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER IN HAYS, TRAVIS AND/OR WILLIAMSON COUNTIES AND MUST BE ADHERED TO BY THE CONTRACTOR AND ALL SUBCONTRACTORS:

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

TCEQ REGIONAL OFFICE

Austin Regional Office
12100 Park 35 Circle
Bldg A, Room 179
Austin, Texas 78753
Phone: (512) 339-2929
Fax: (512) 339-3795

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
COMPUTATIONS & GENERAL NOTES

H SCALE: 1" = 100'
V SCALE: 1" = 10'
SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	214

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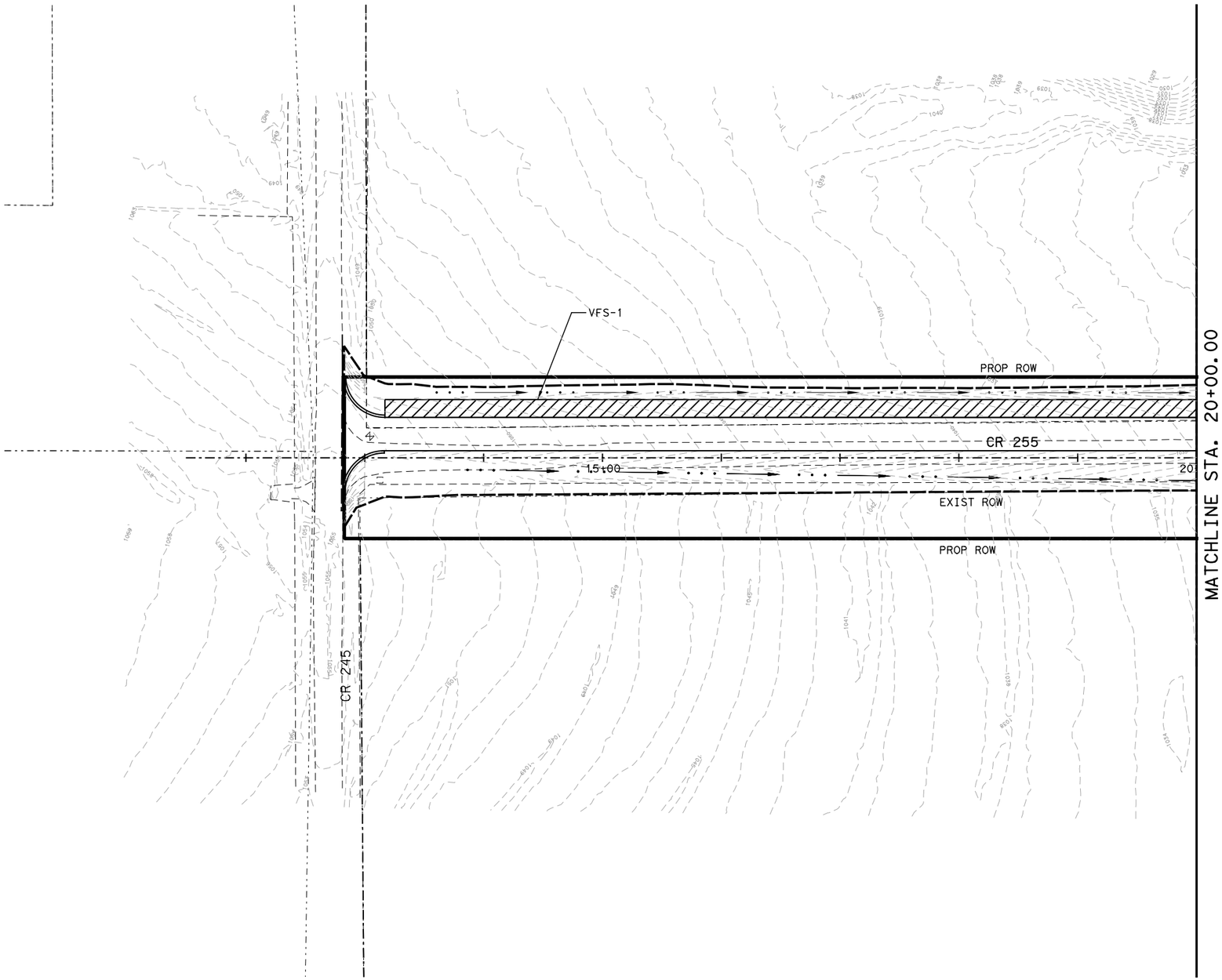
		Ac.	lbs
VFS-1	VFS	0.61	574



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

BEGIN TO STA 20+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 1 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	215

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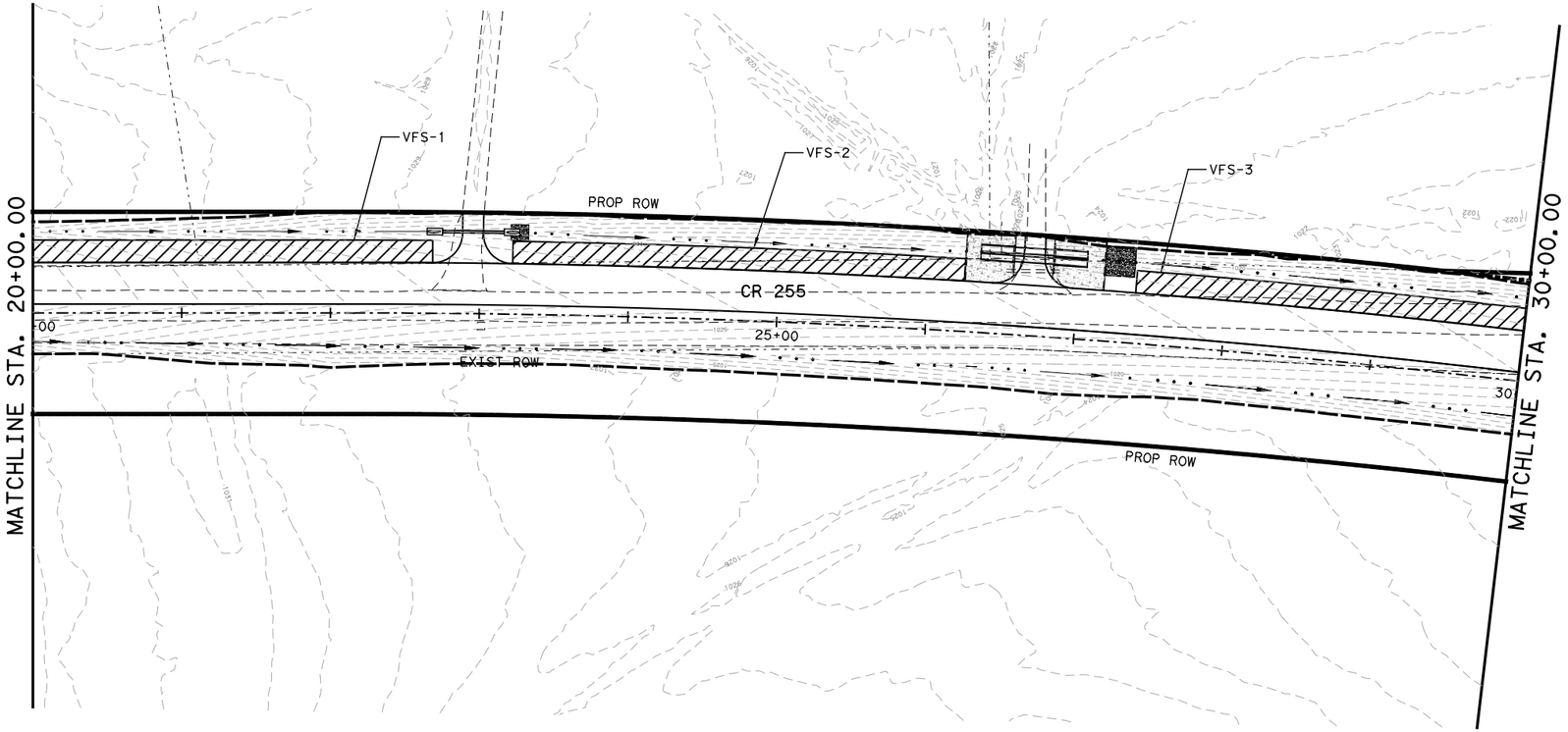
		Ac.	lbs
VFS-1	VFS	0.61	574
VFS-2	VFS	0.2	188
VFS-3	VFS	0.24	226



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

DEPARTMENT OF INFRASTRUCTURE

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

STA 20+00 TO 30+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 2 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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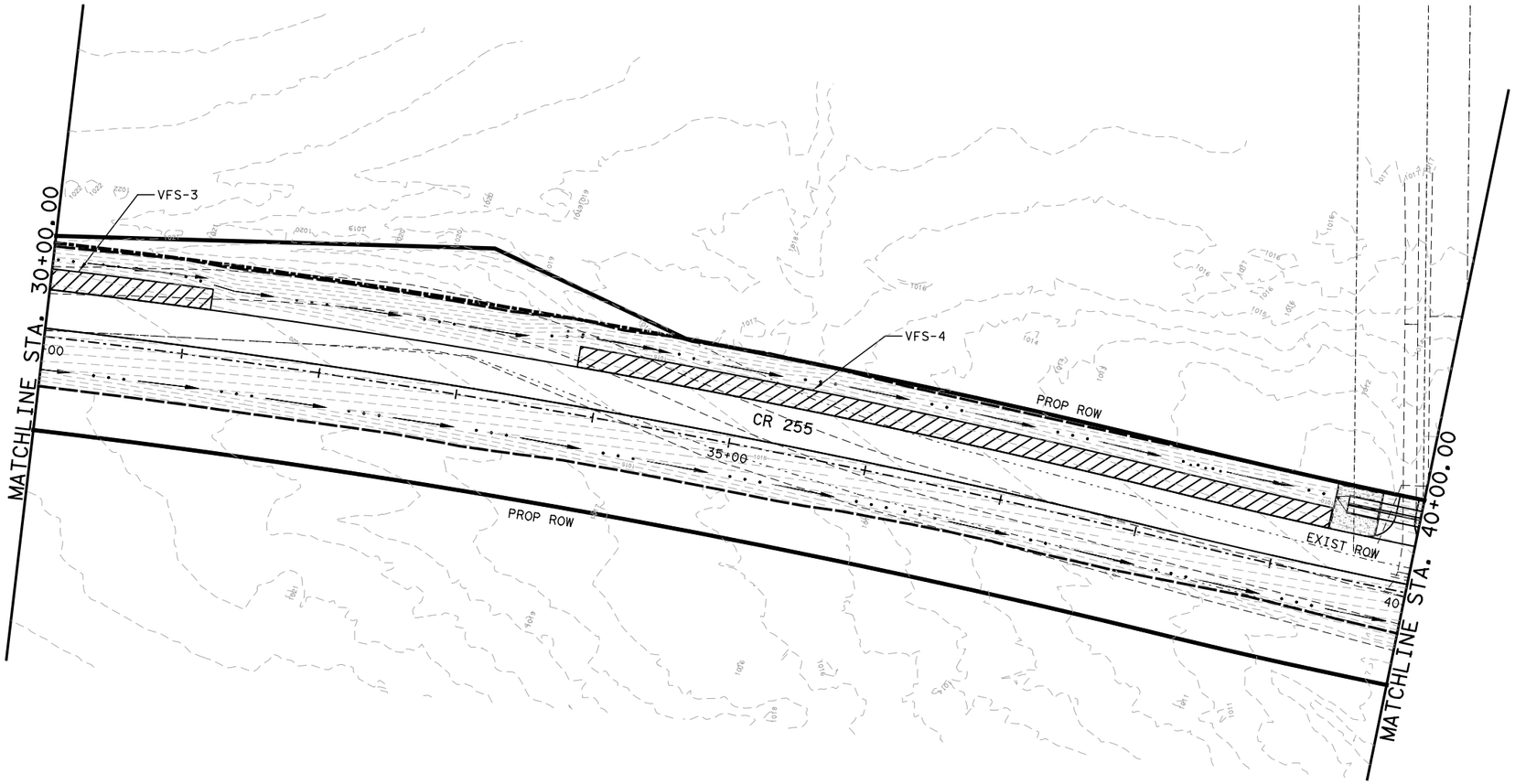
		Ac.	lbs
VFS-3	VFS	0.24	226
VFS-4	VFS	0.357	336



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

DEPARTMENT OF INFRASTRUCTURE
WILCO TEXAS

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TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 30+00 TO 40+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 3 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	217

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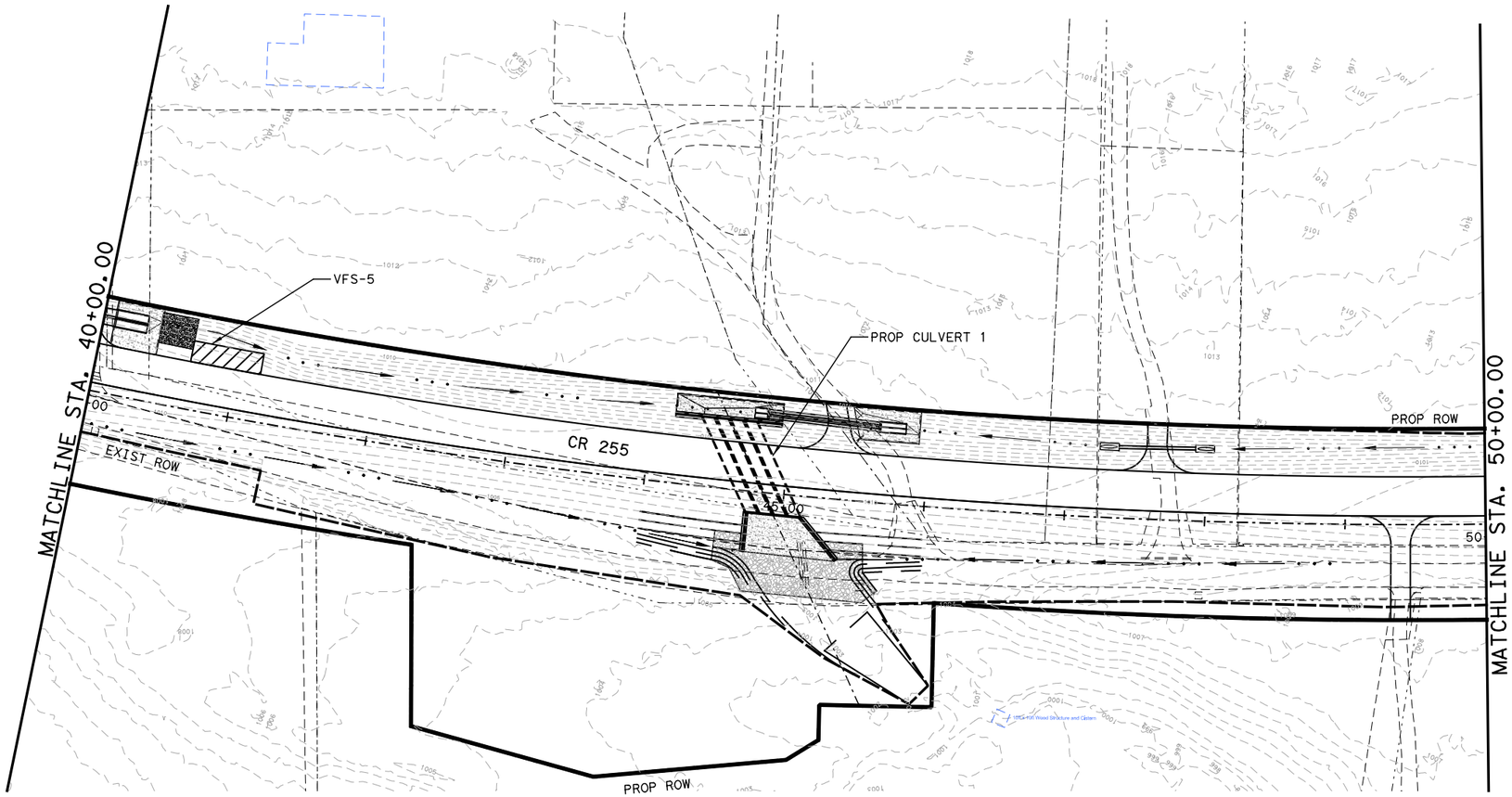
		Ac.	lbs
VFS-5	VFS	0.03	28



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

8/19/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

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CR 255

WATER QUALITY SITE PLAN

STA 40+00 TO 50+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 4 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	218

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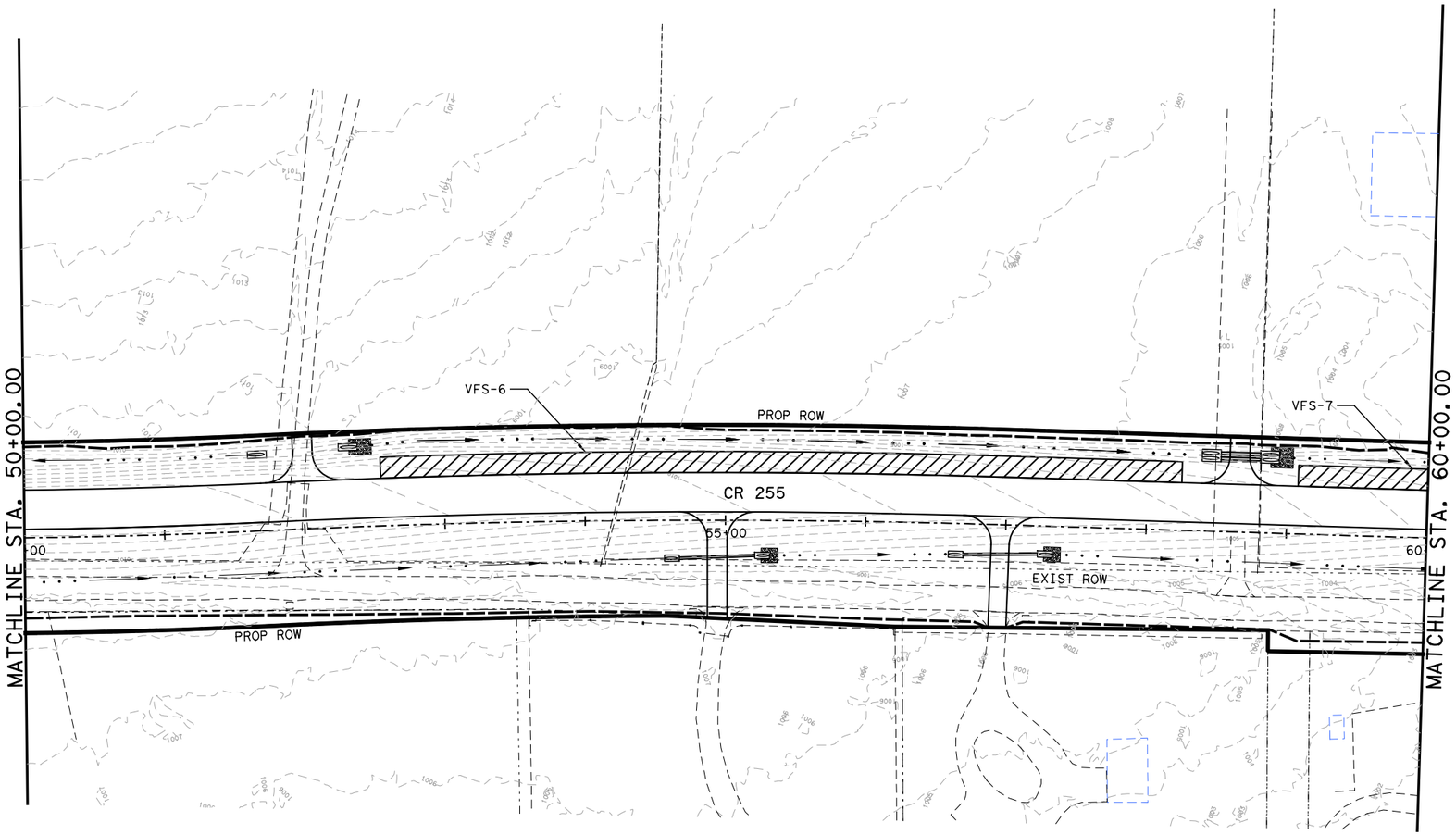
		Ac.	lbs
VFS-6	VFS	0.368	346
VFS-7	VFS	0.15	141



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
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CR 255
WATER QUALITY SITE PLAN

STA 50+00 TO 60+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	219

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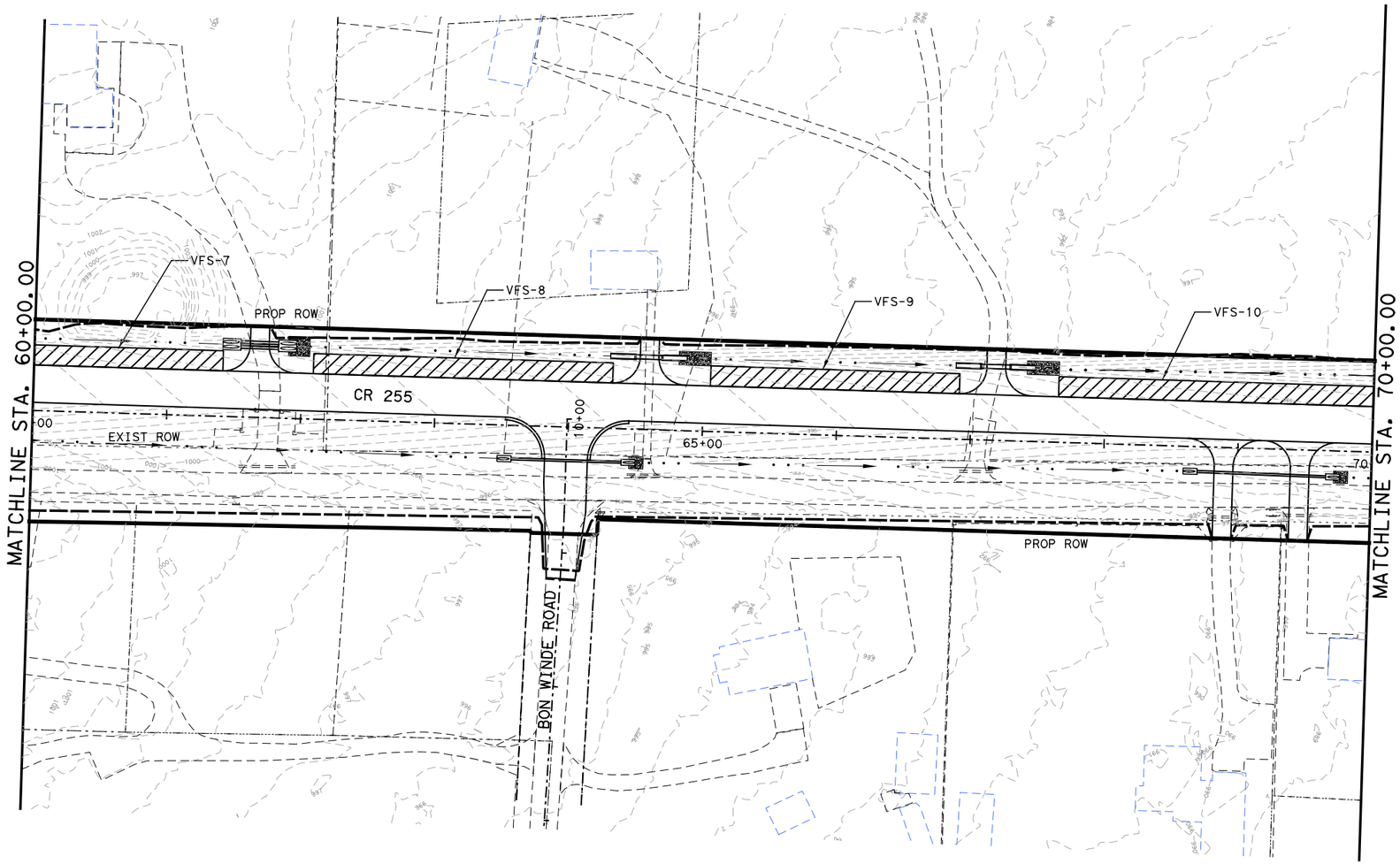
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-7	VFS	0.15	141
VFS-8	VFS	0.15	141
VFS-9	VFS	0.12	113
VFS-10	VFS	0.19	179



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann 8/19/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 60+00 TO 70+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 6 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	220

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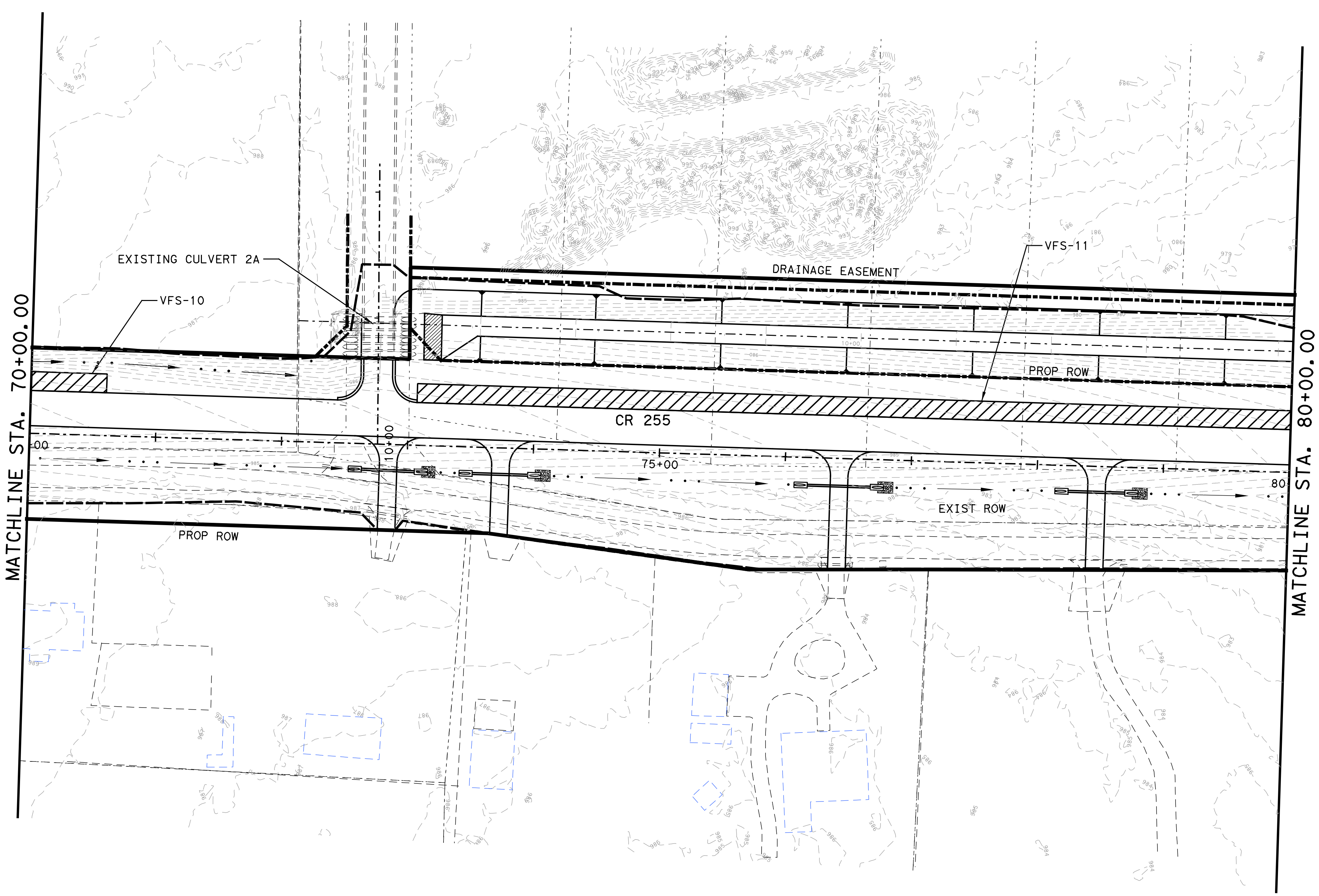
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-10	VFS	0.19	179
VFS-11	VFS	0.61	574



0 50 100
SCALE: 1" = 100'

LEGEND

DITCH FLOWLINE
EXIST CONTOUR
EXIST ROW
PROP ROW/PROJECT SITE
ENGINEERED VEGETATIVE FILTER STRIPS
LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 70+00 TO 80+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 7 OF 18

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
DESIGNED:						
CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	221

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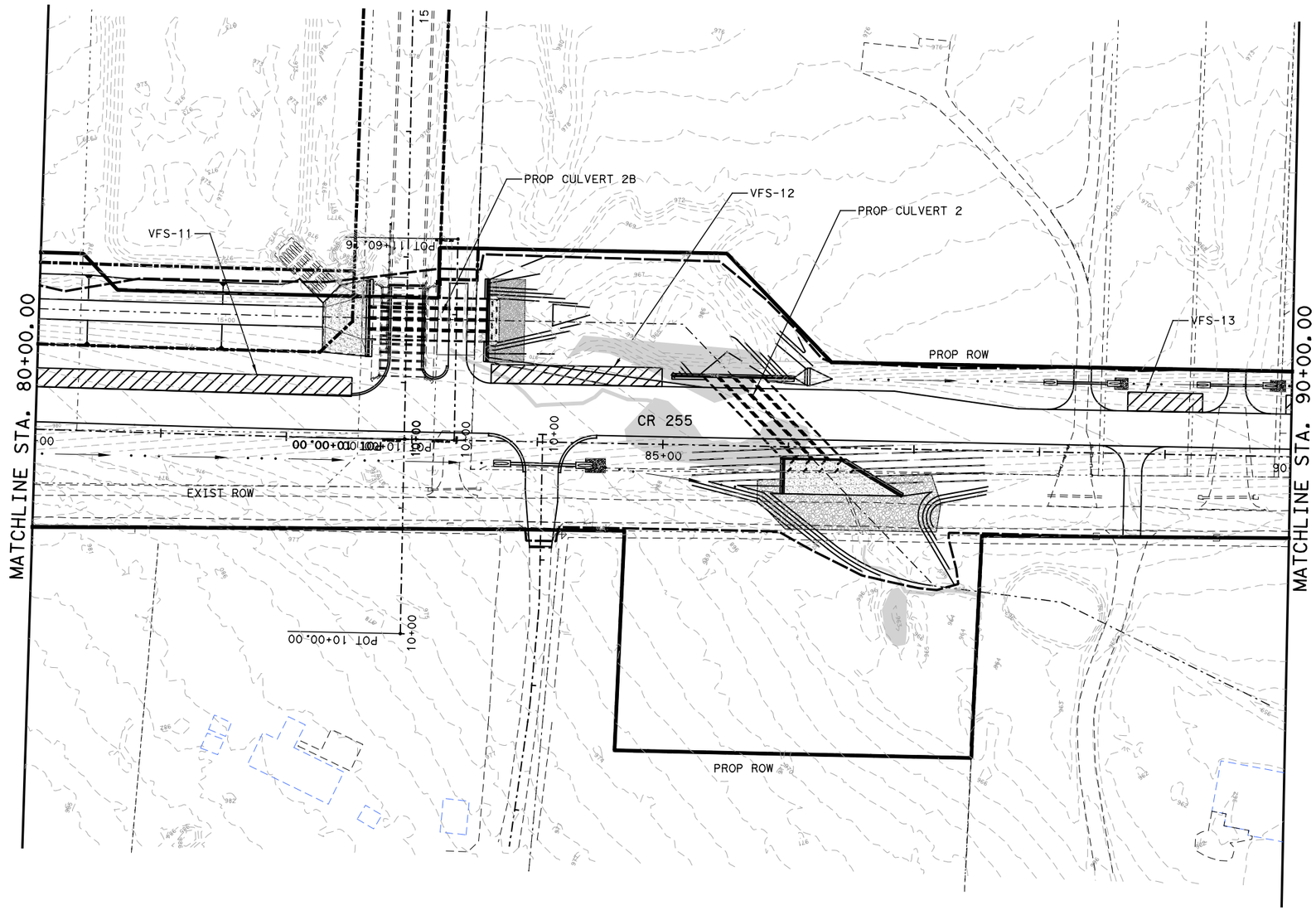
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-11	VFS	0.61	574
VFS-12	VFS	0.124	117
VFS-13	VFS	0.04	38



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 80+00 TO 90+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 8 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	222

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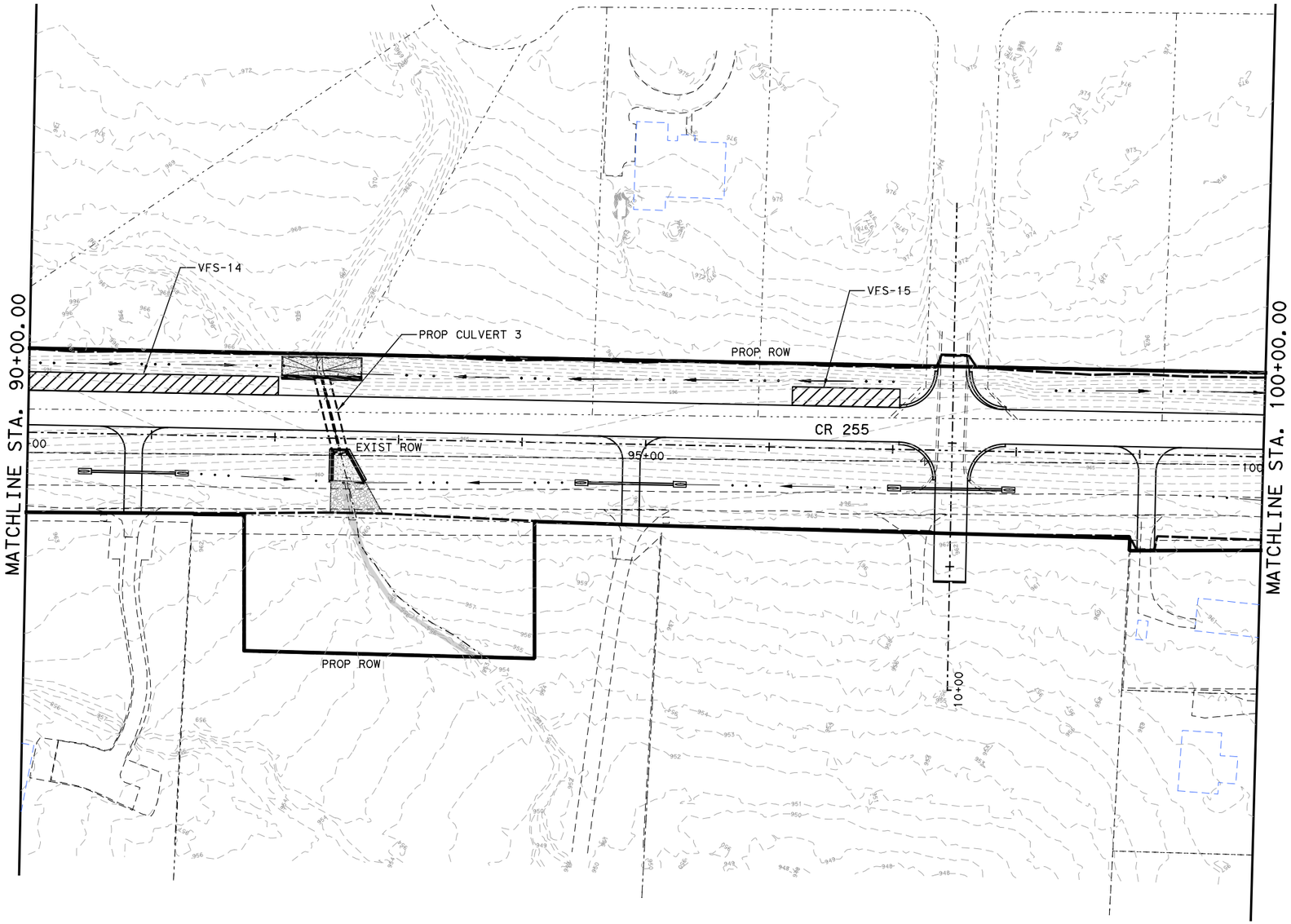
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-14	VFS	0.13	122
VFS-15	VFS	0.056	53



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 90+00 TO 100+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 9 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	223

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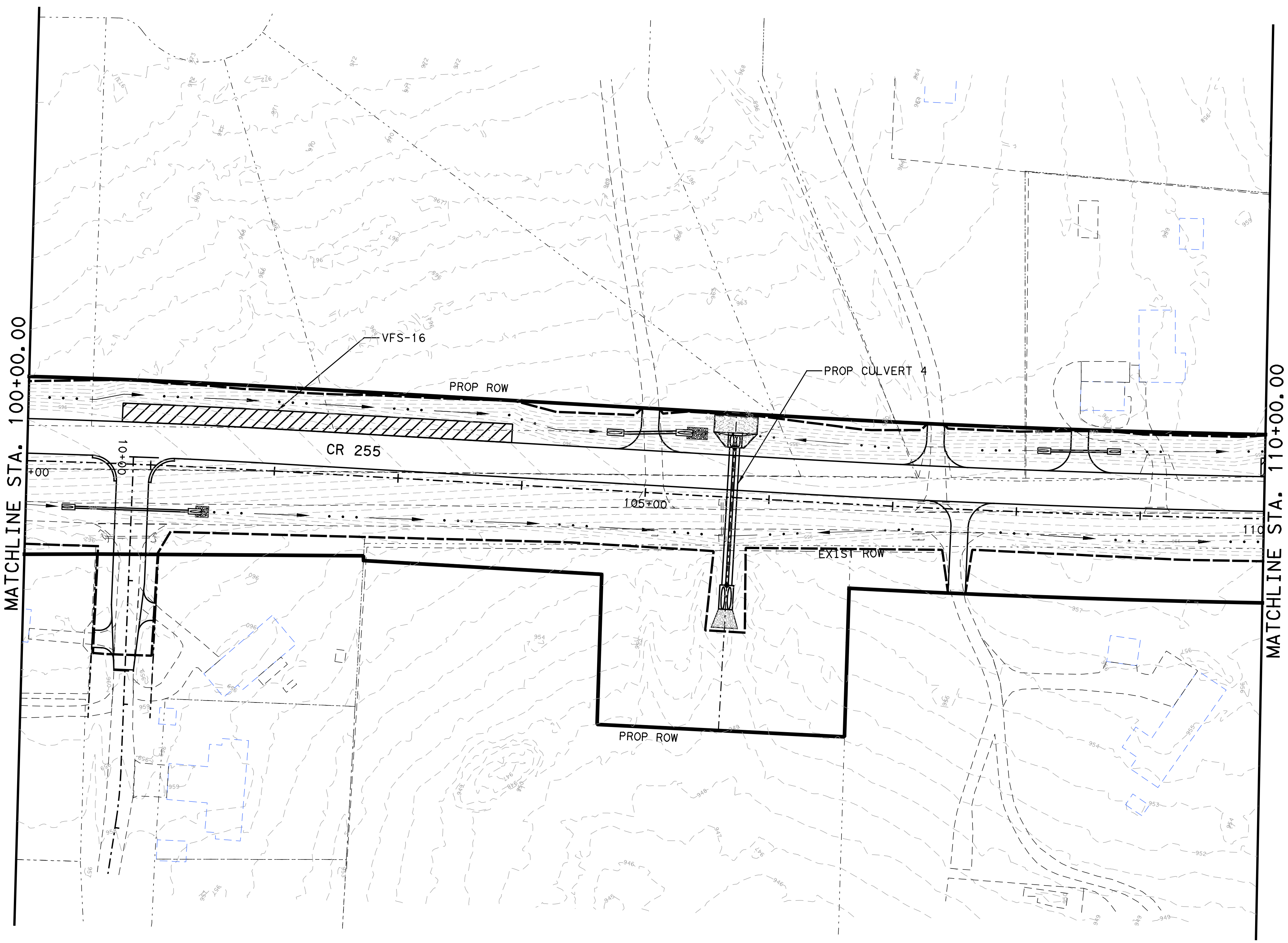
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-16	VFS	0.2	188



SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 100+00 TO 110+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'
SHEET 10 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	224

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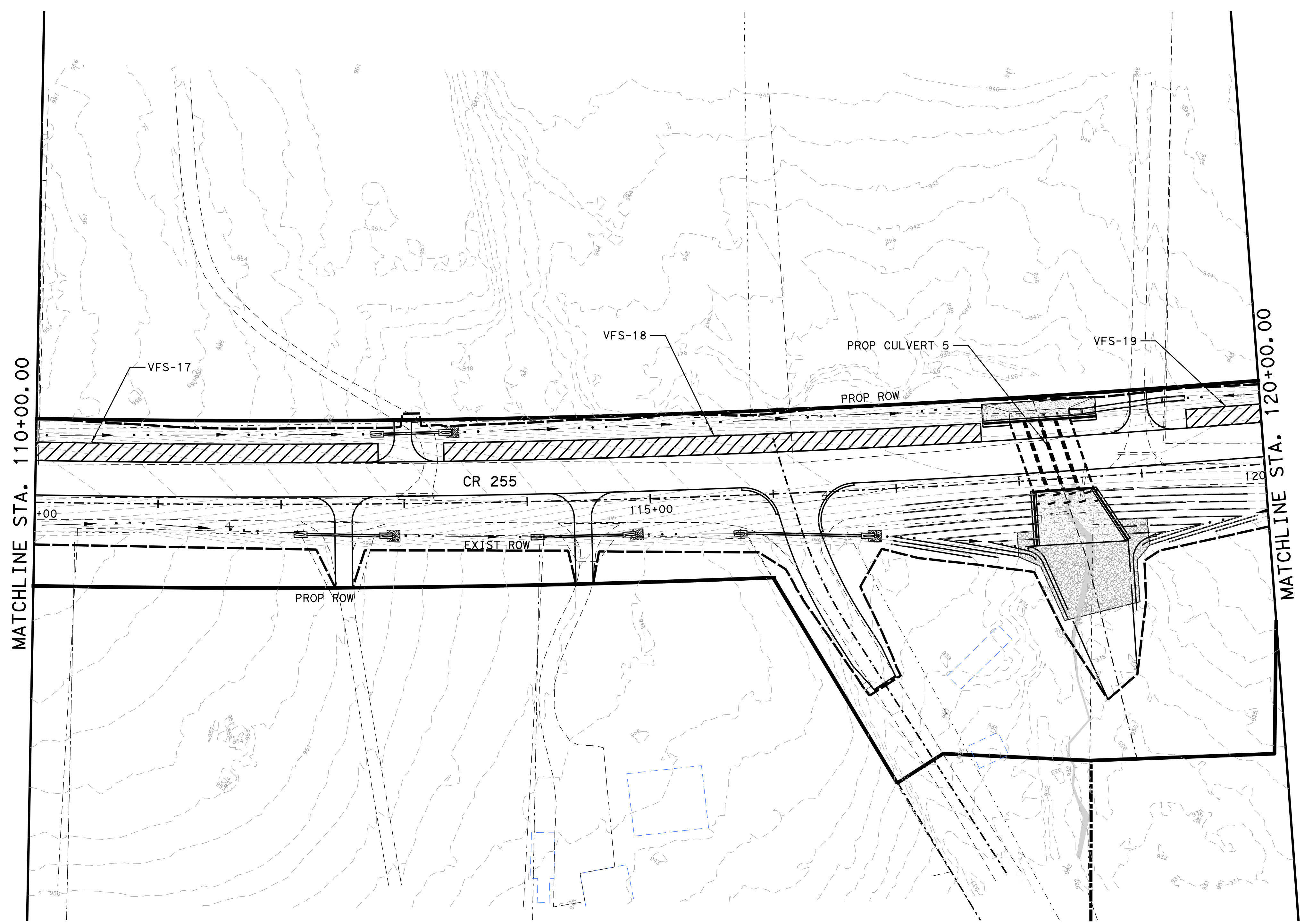
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-17	VFS	0.18	169
VFS-18	VFS	0.28	264
VFS-19	VFS	0.13	122

0 50 100
SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG
CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

STA 110+00 TO 120+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 11 OF 18

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
DESIGNED:					
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 225

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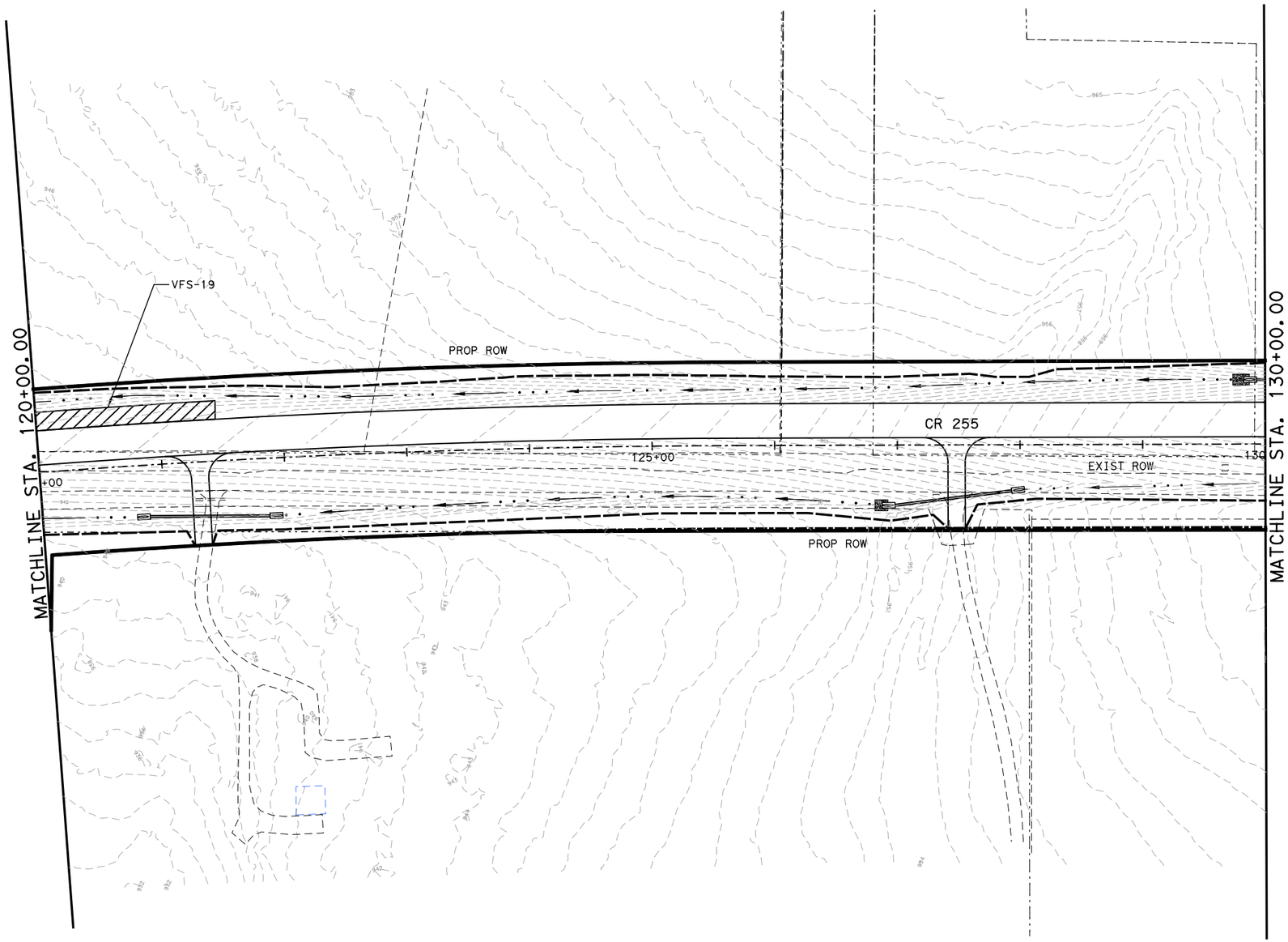
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-19	VFS	0.13	122



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

STA 120+00 TO 130+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 12 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	226

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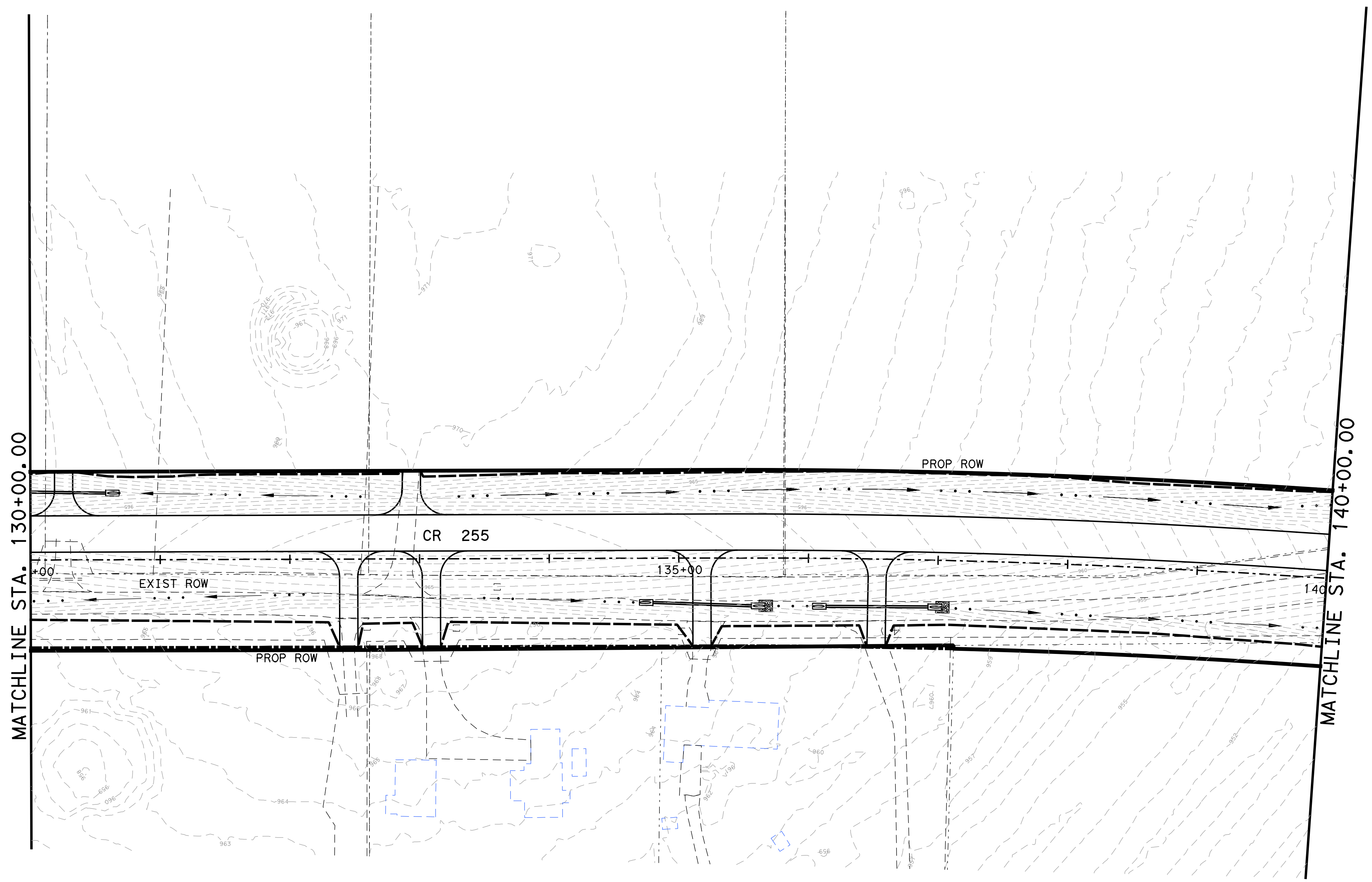

SCALE: 1" = 100'

LEGEND

(line with arrow and dots)	DITCH FLOWLINE
(dashed line)	EXIST CONTOUR
(dash-dot line)	EXIST ROW
(heavy dash-dot line)	PROP ROW/PROJECT SITE
(hatched box)	ENGINEERED VEGETATIVE FILTER STRIPS
(heavy dashed line)	LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
(gray box)	WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 130+00 TO 140+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 13 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	227

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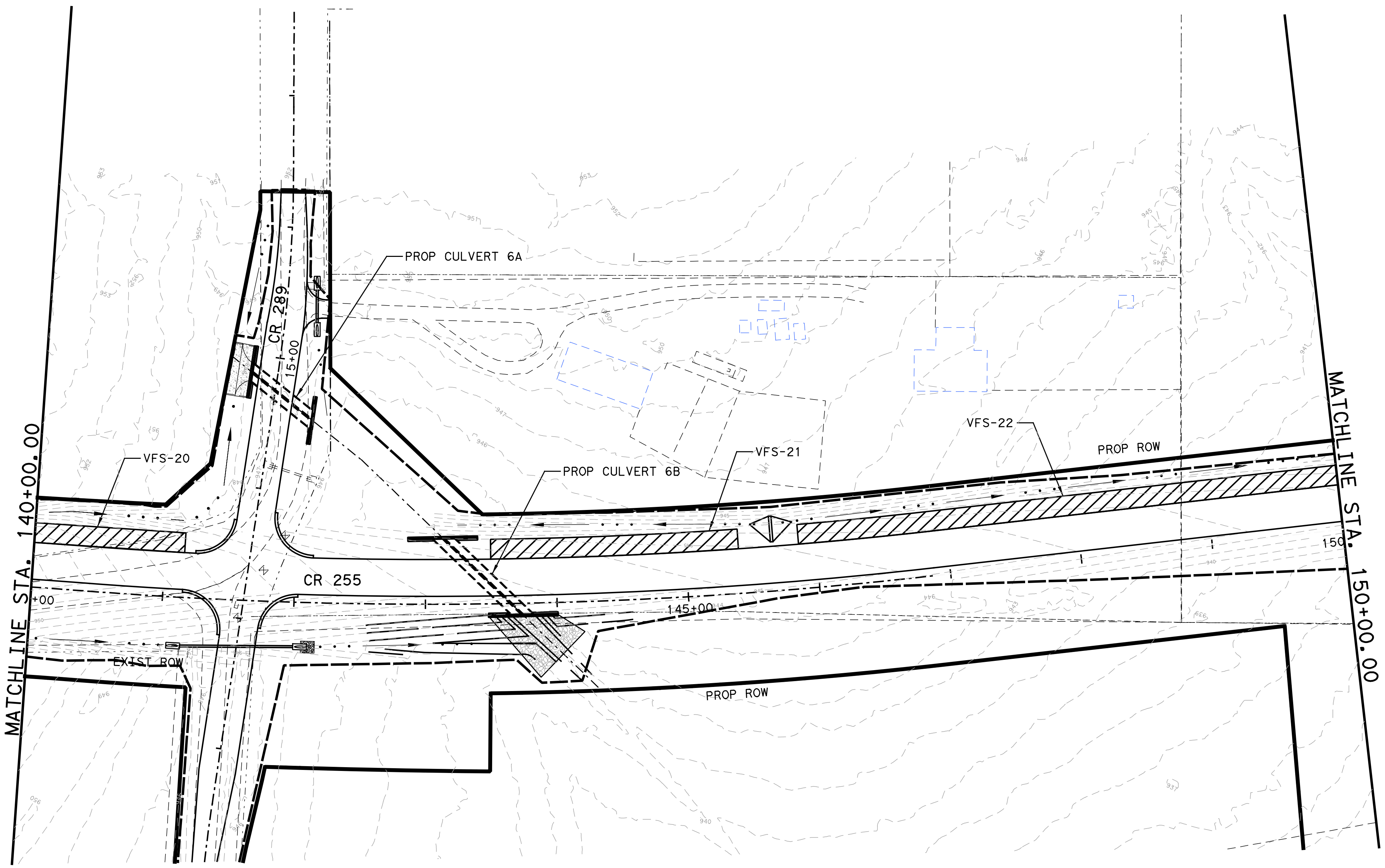
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-20	VFS	0.07	66
VFS-21	VFS	0.12	113
VFS-22	VFS	0.315	296

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS



NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN
STA 140+00 TO 150+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 14 OF 18

	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
DESIGNED: / CHECKED:	X	TEXAS		CR 255

	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
DRAWN: / CHECKED:	XX	XX	XX	XX	XX	228

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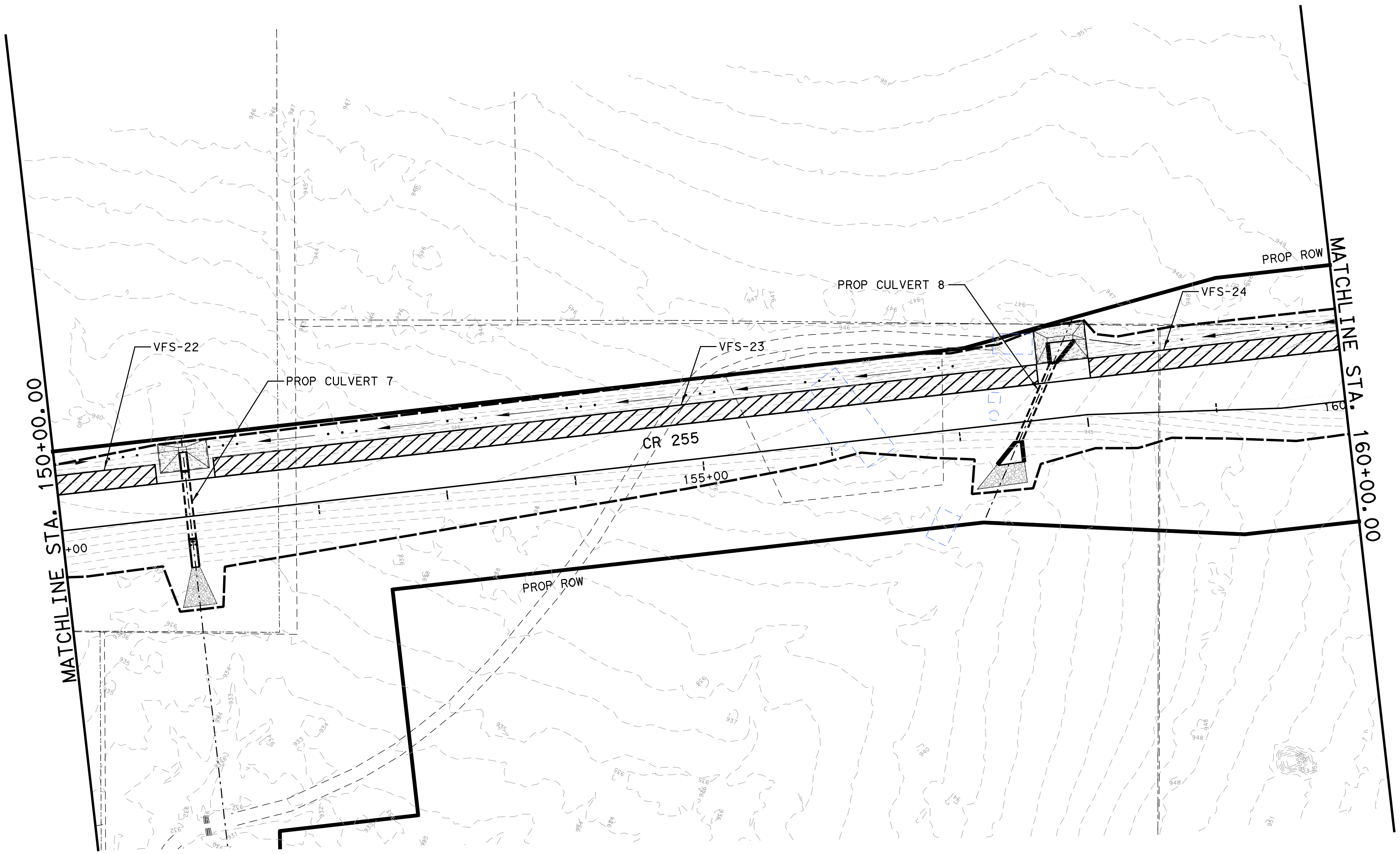
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-22	VFS	0.315	296
VFS-23	VFS	0.41	386
VFS-24	VFS	0.43	405



SCALE: 1" = 100'

LEGEND

DITCH FLOWLINE
EXIST CONTOUR
EXIST ROW
PROP ROW/PROJECT SITE
ENGINEERED VEGETATIVE FILTER STRIPS
LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

STA 150+00 TO 160+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 15 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	229

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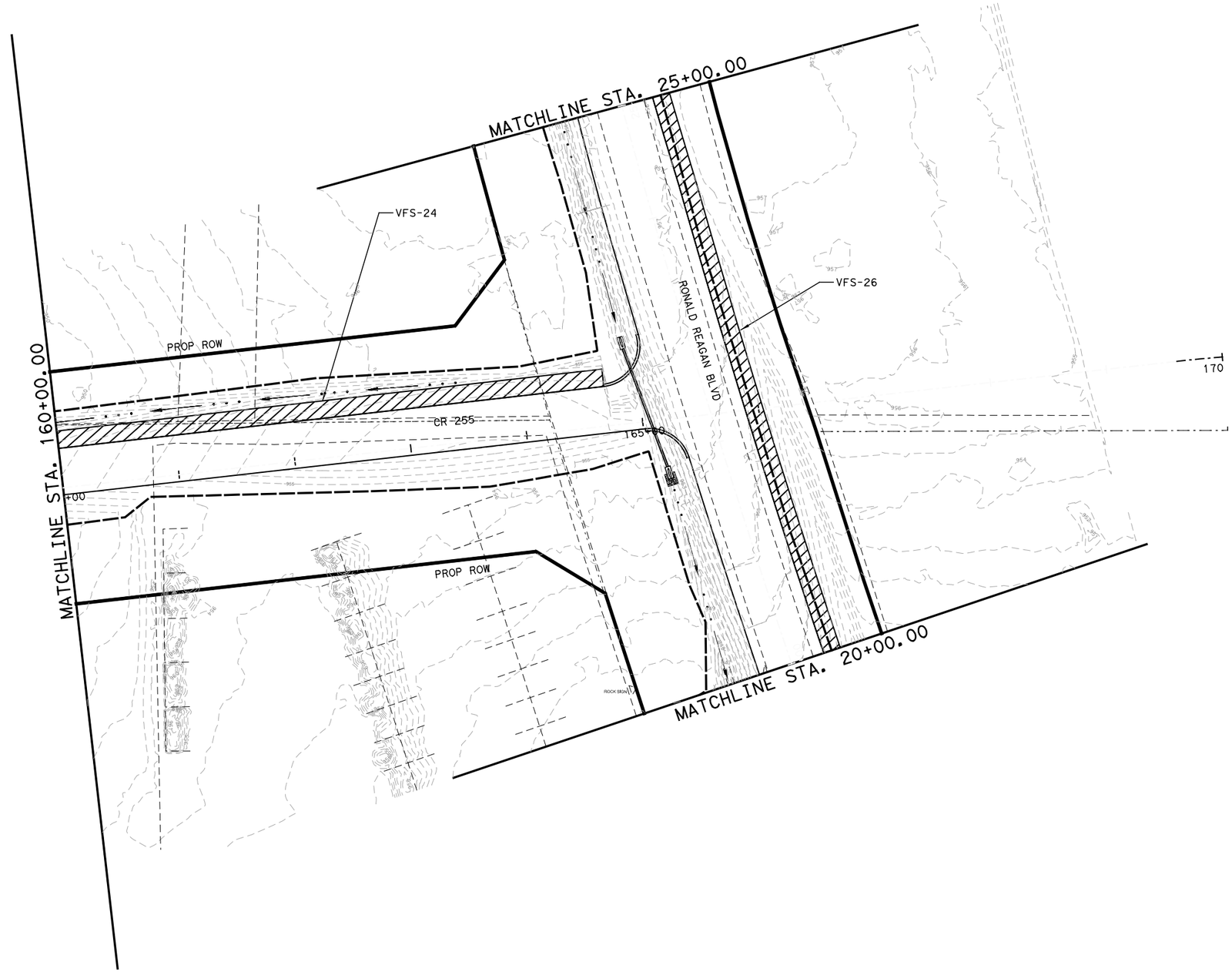
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-24	VFS	0.43	405
VFS-26	VFS	0.497	468



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

STA 160+00 TO END

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 16 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	230

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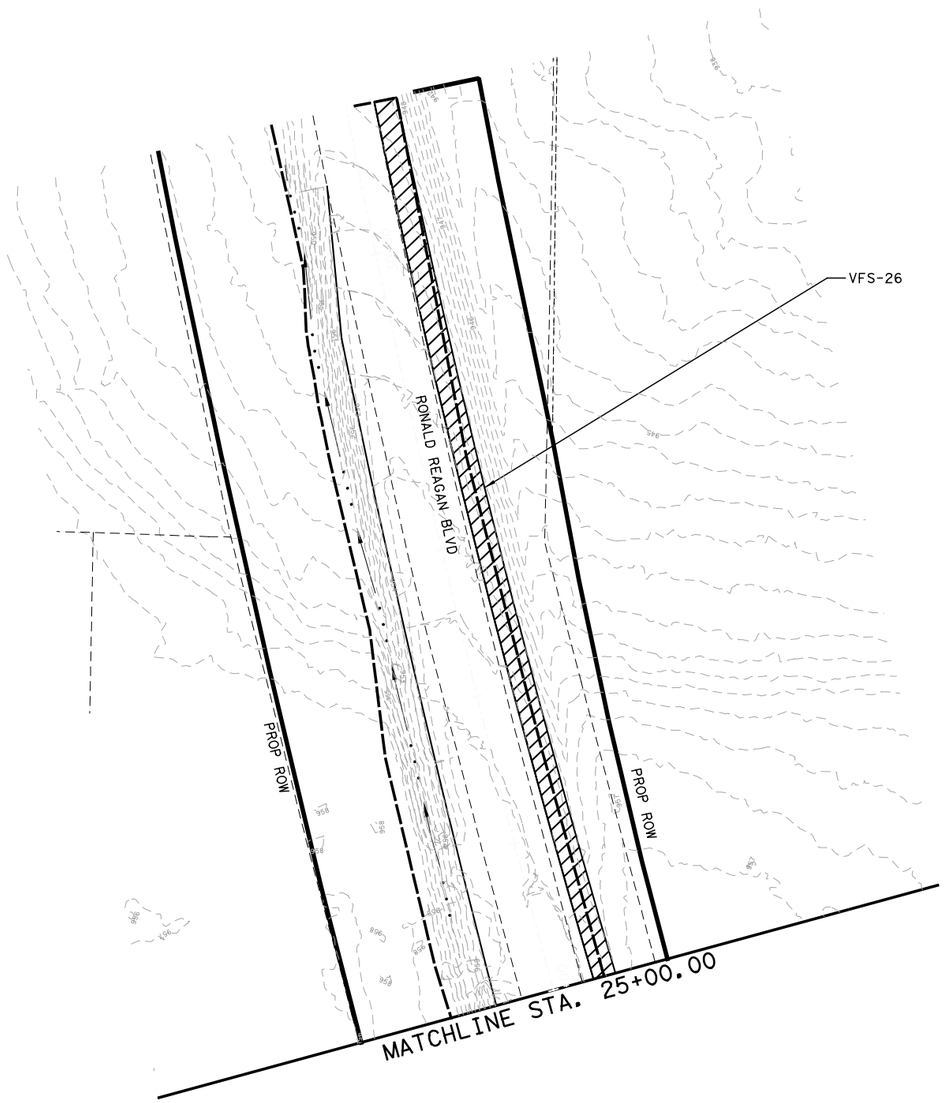
BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-26	VFS	0.497	468



0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
8/19/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

RONALD REAGAN STA 25+00 TO END

H SCALE: 1" = 100'
V SCALE: 1" = 10'

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	231

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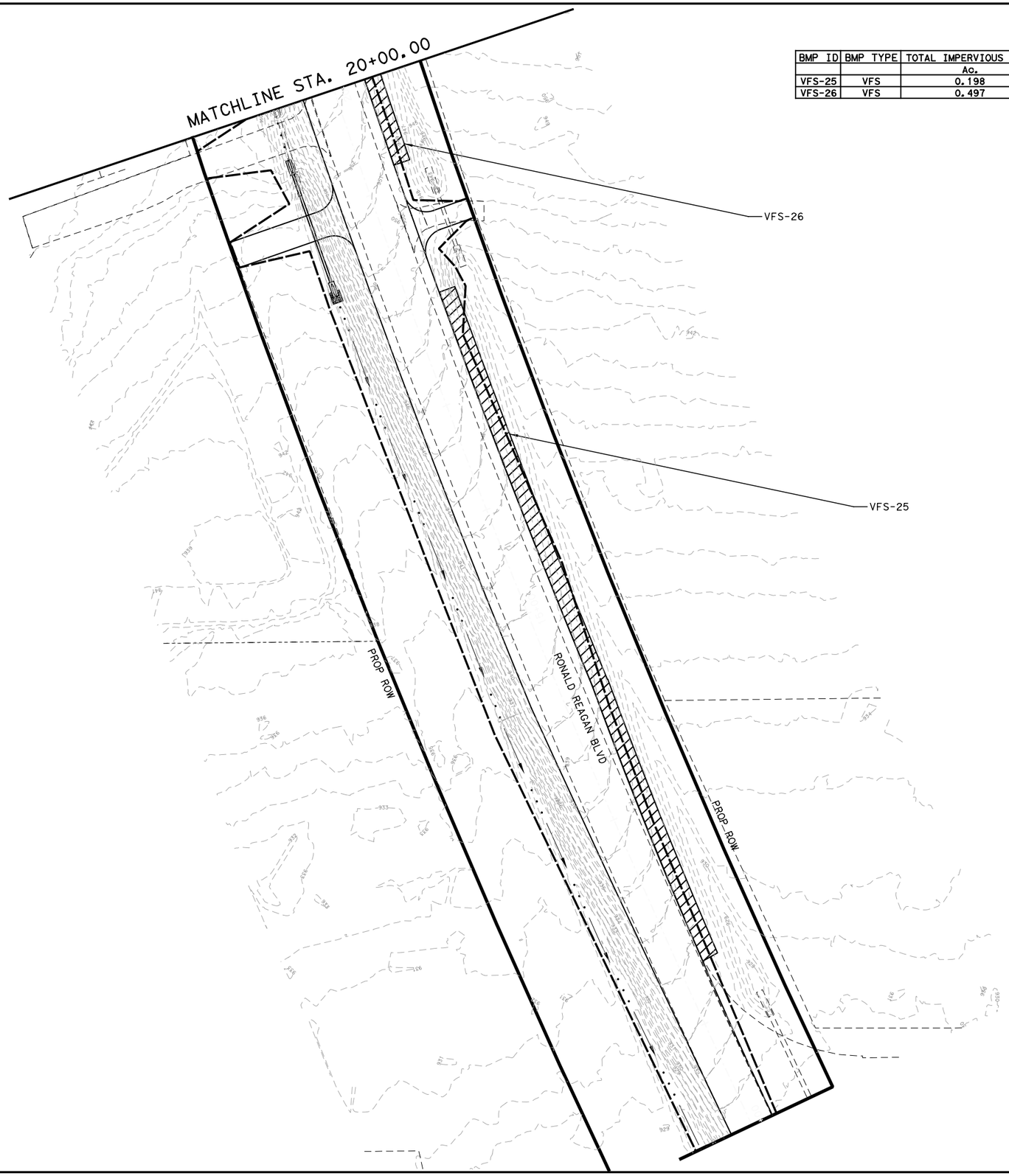

BMP ID	BMP TYPE	TOTAL IMPERVIOUS AREA	TSS LOAD REMOVED
		Ac.	lbs
VFS-25	VFS	0.198	186
VFS-26	VFS	0.497	468

0 50 100

SCALE: 1" = 100'

LEGEND

- DITCH FLOWLINE
- EXIST CONTOUR
- EXIST ROW
- PROP ROW/PROJECT SITE
- ENGINEERED VEGETATIVE FILTER STRIPS
- LIMITS OF CONSTRUCTION / SOIL DISTURBANCE
- WETLANDS

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

8/19/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
WATER QUALITY SITE PLAN

RONALD REAGAN STA 10+00 TO 20+00

H SCALE: 1" = 100'
V SCALE: 1" = 10'

SHEET 18 OF 18

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	232

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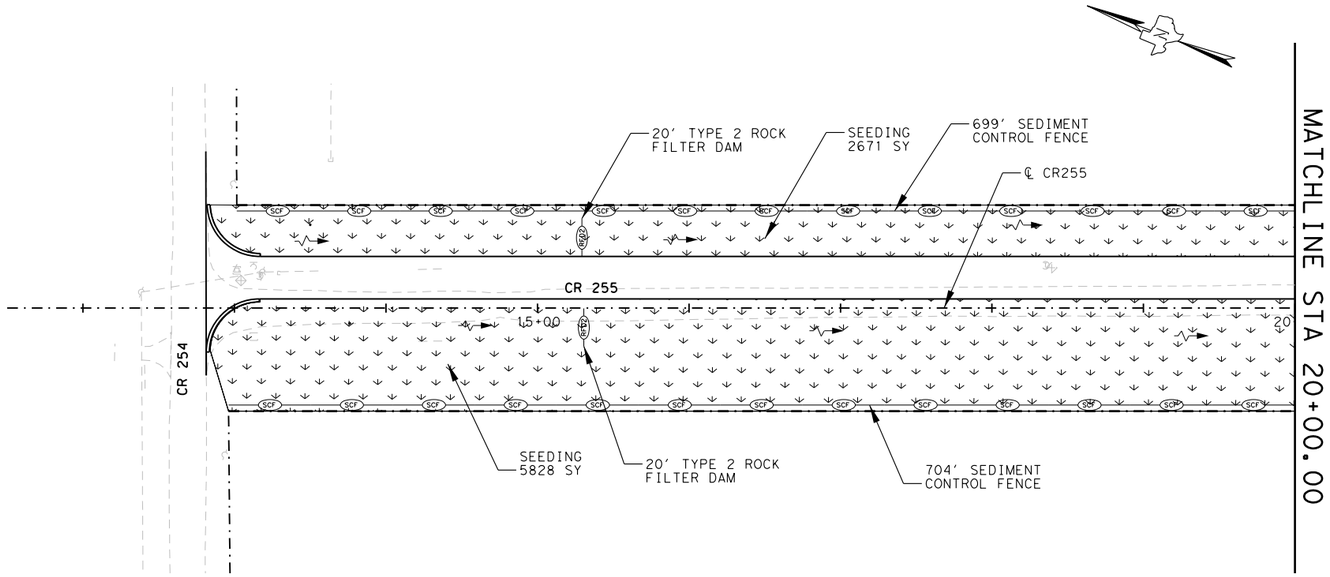


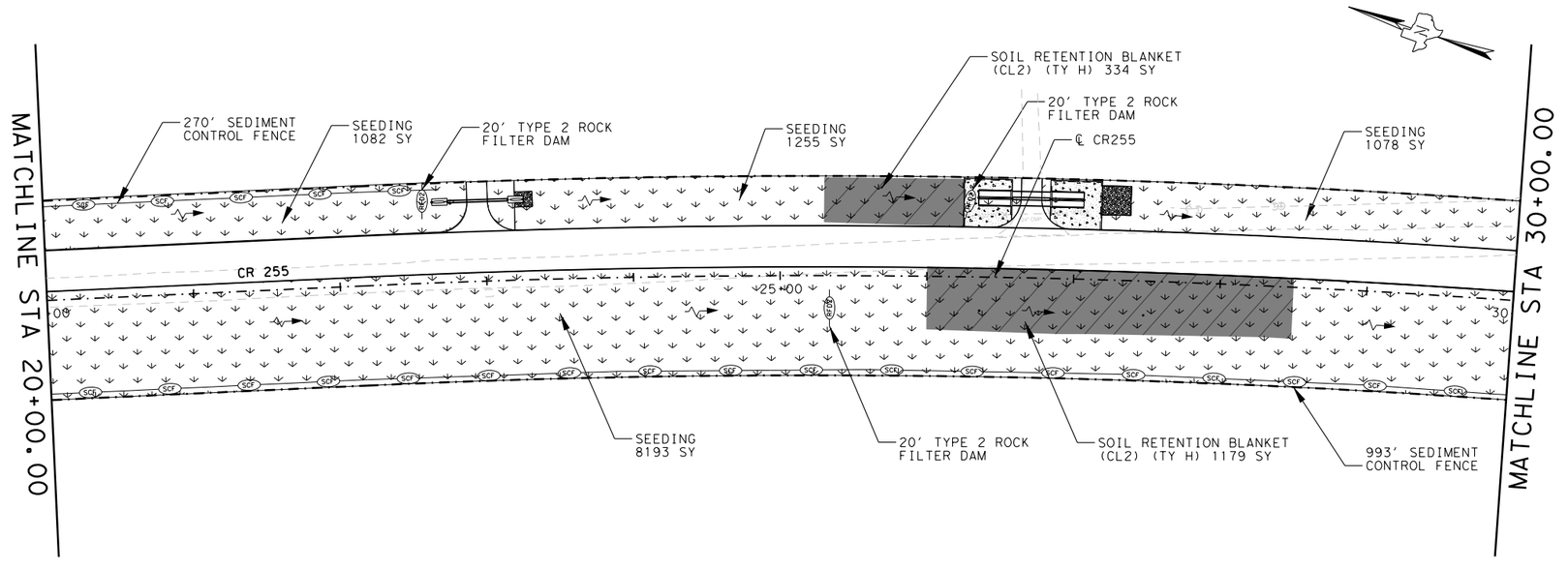
LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

SWP3 QUANTITIES				
SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	20107
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	1513
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	100
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	100
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	2666
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	2666

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.



WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

BEGIN TO STA 30+00

SHEET 1 OF 8

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			302

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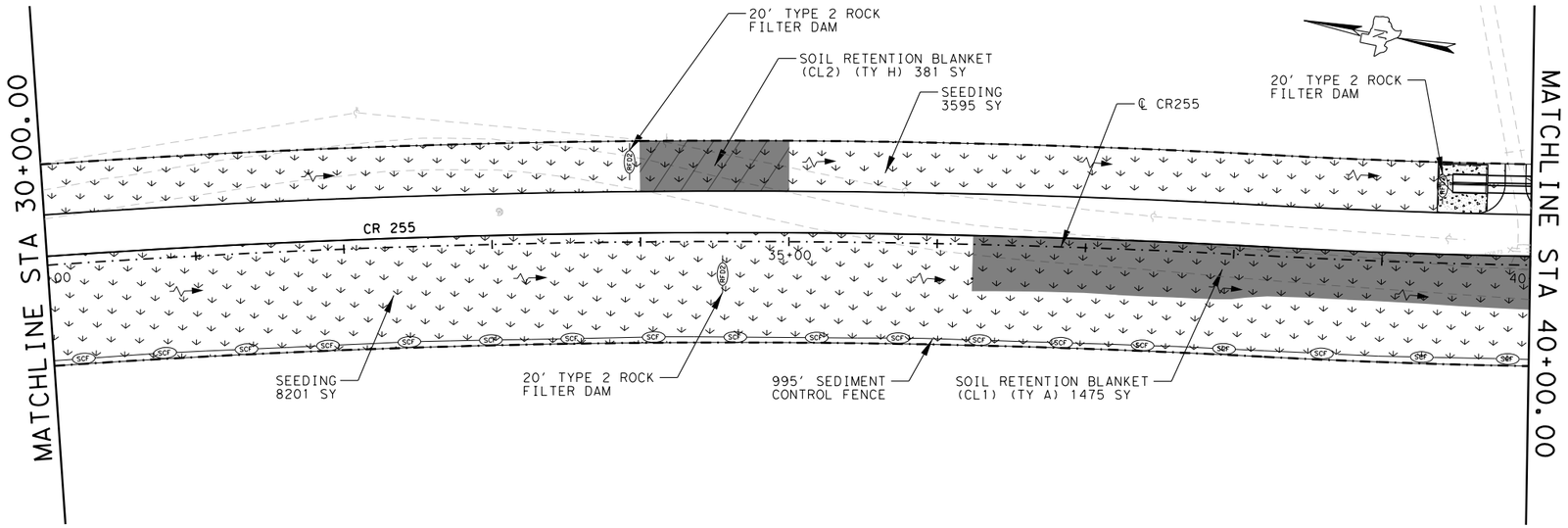


NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

0 50 100

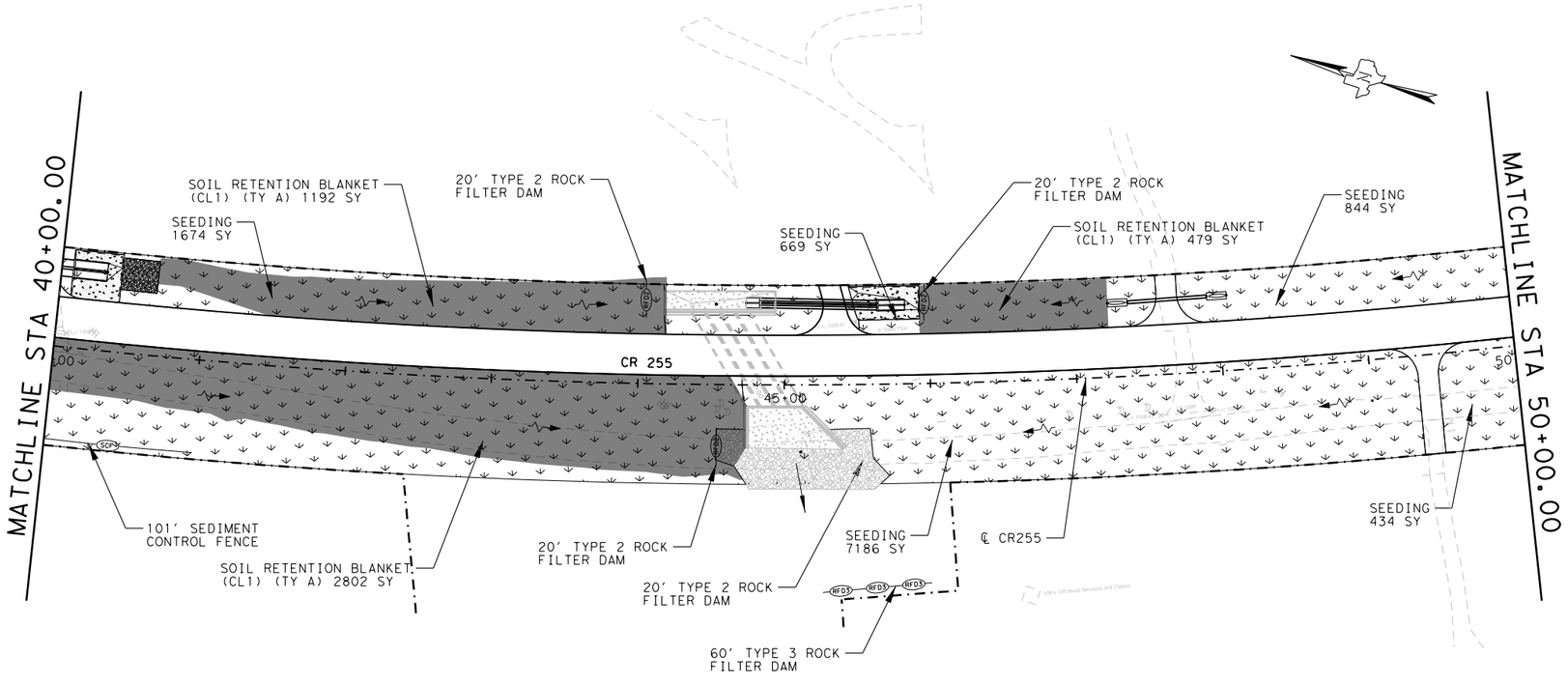
SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	22603
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	5948
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	381
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	140
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	60
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	200
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	1096
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	1096



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 30+00 TO STA 50+00

SHEET 2 OF 8

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			303

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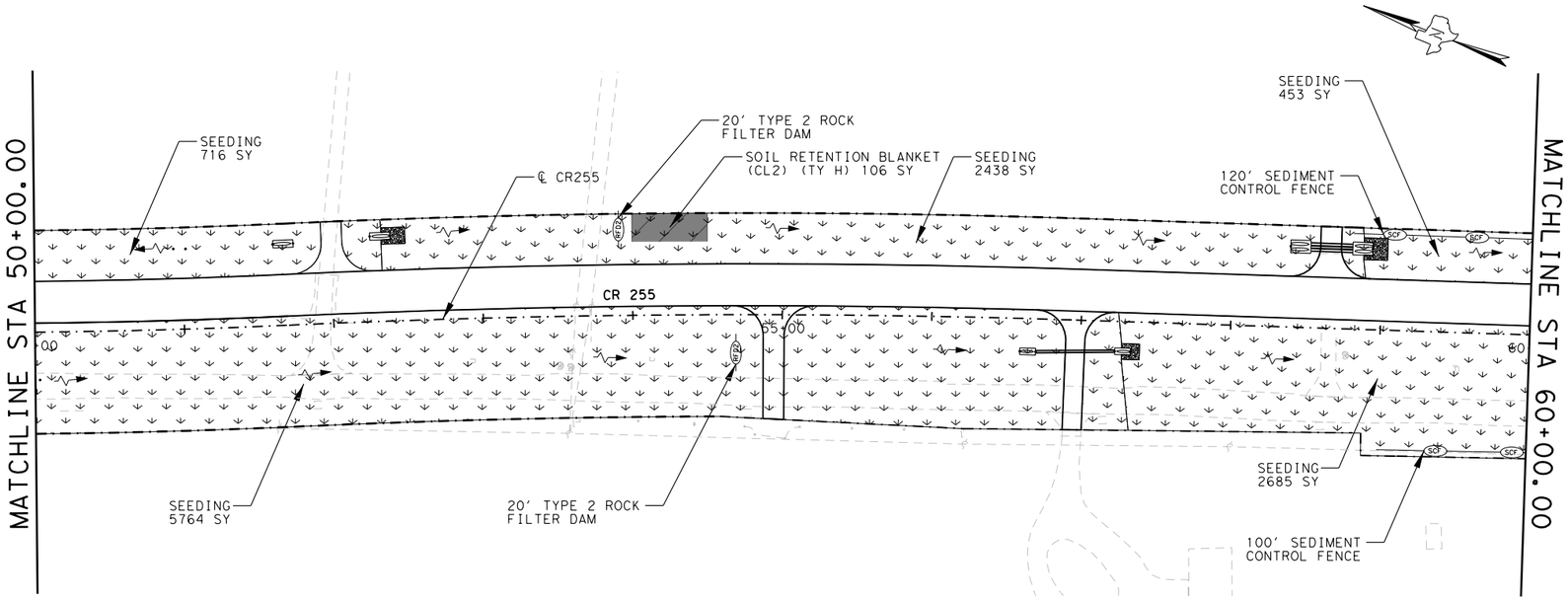

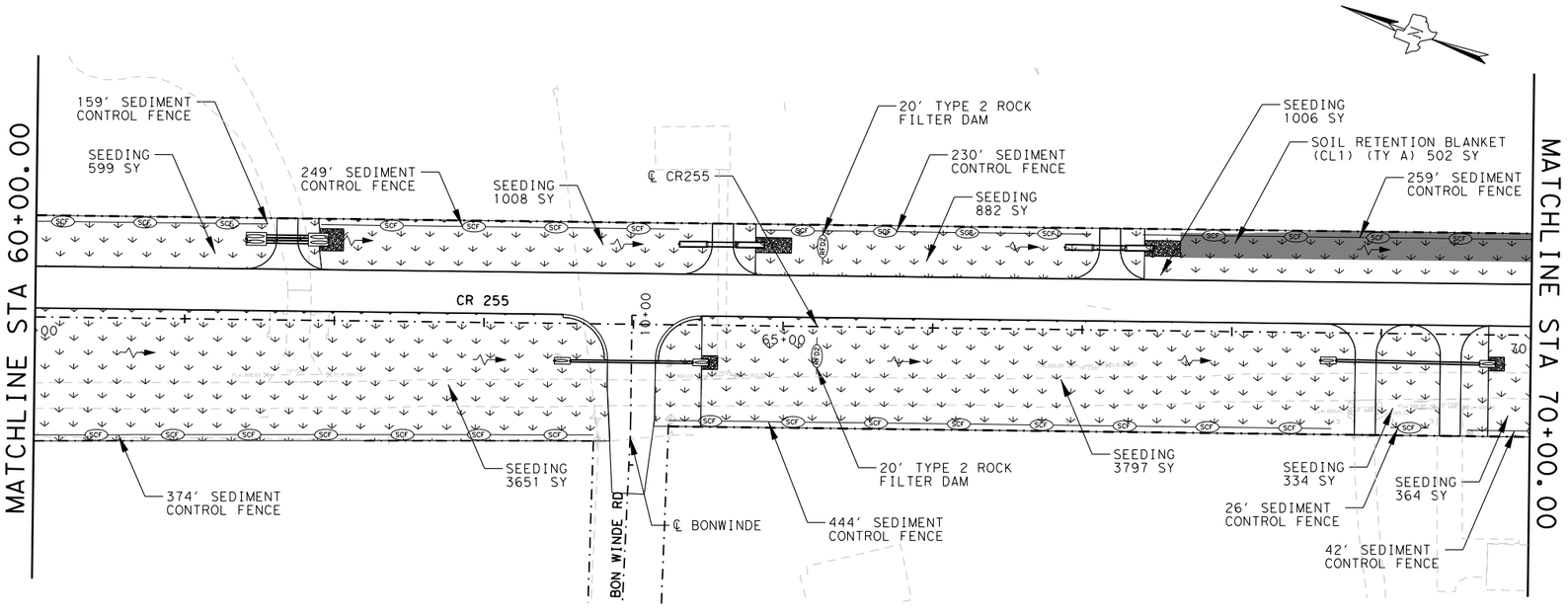

0 50 100

SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	23697
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	502
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	106
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	80
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	80
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	2003
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	2003

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED
PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY
DEPT. OF
INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 50+00 TO STA 70+00

SHEET 3 OF 8

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			304

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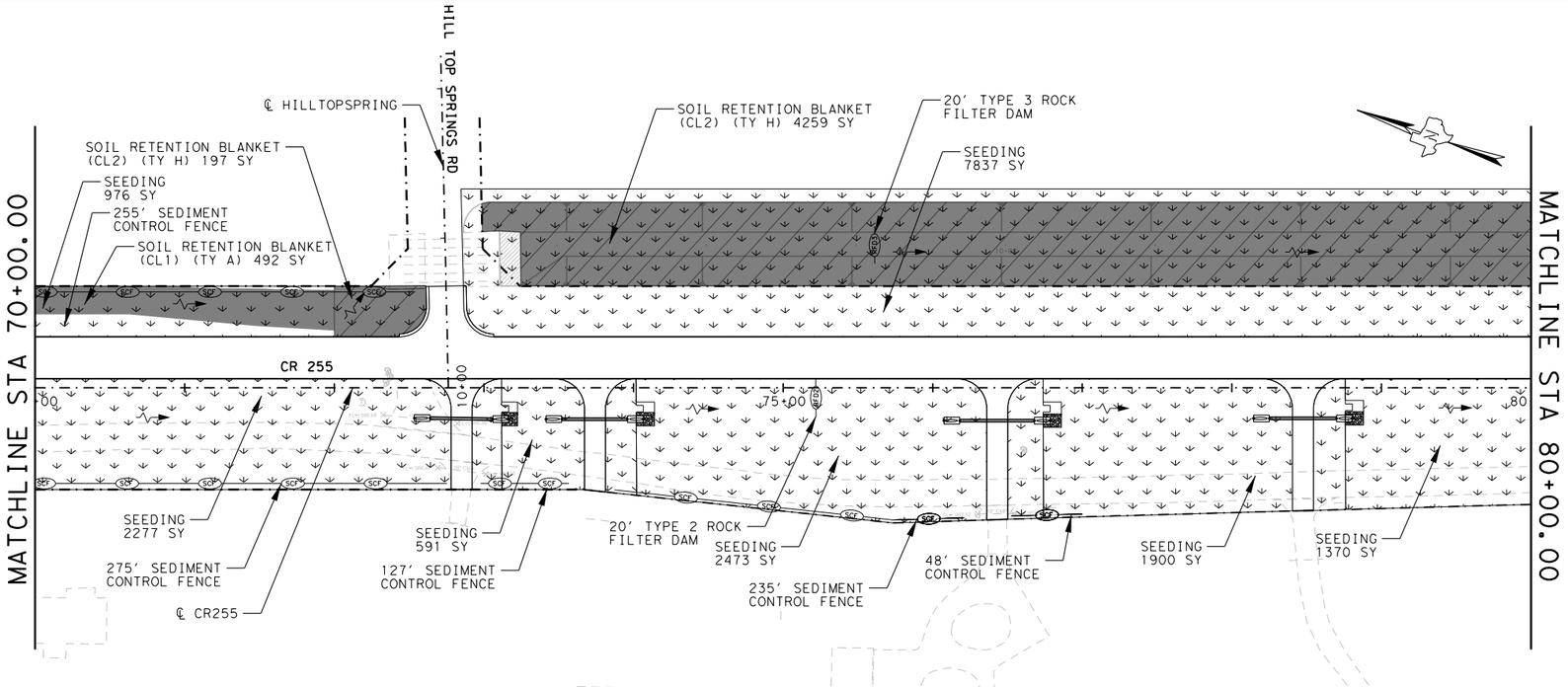

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

0 50 100

SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	31460
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	492
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	7929
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	60
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	200
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	260
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	1126
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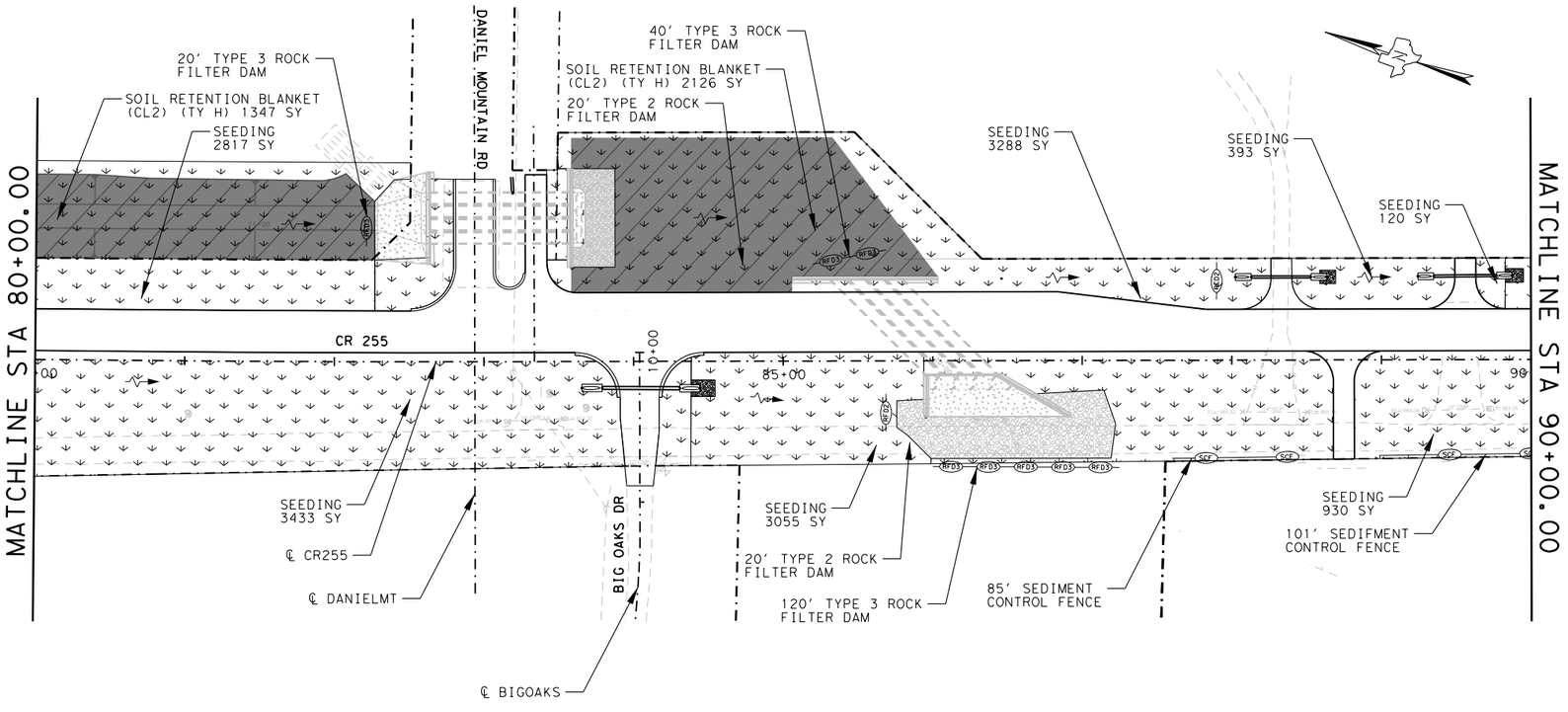

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 70+00 TO STA 90+00

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			305

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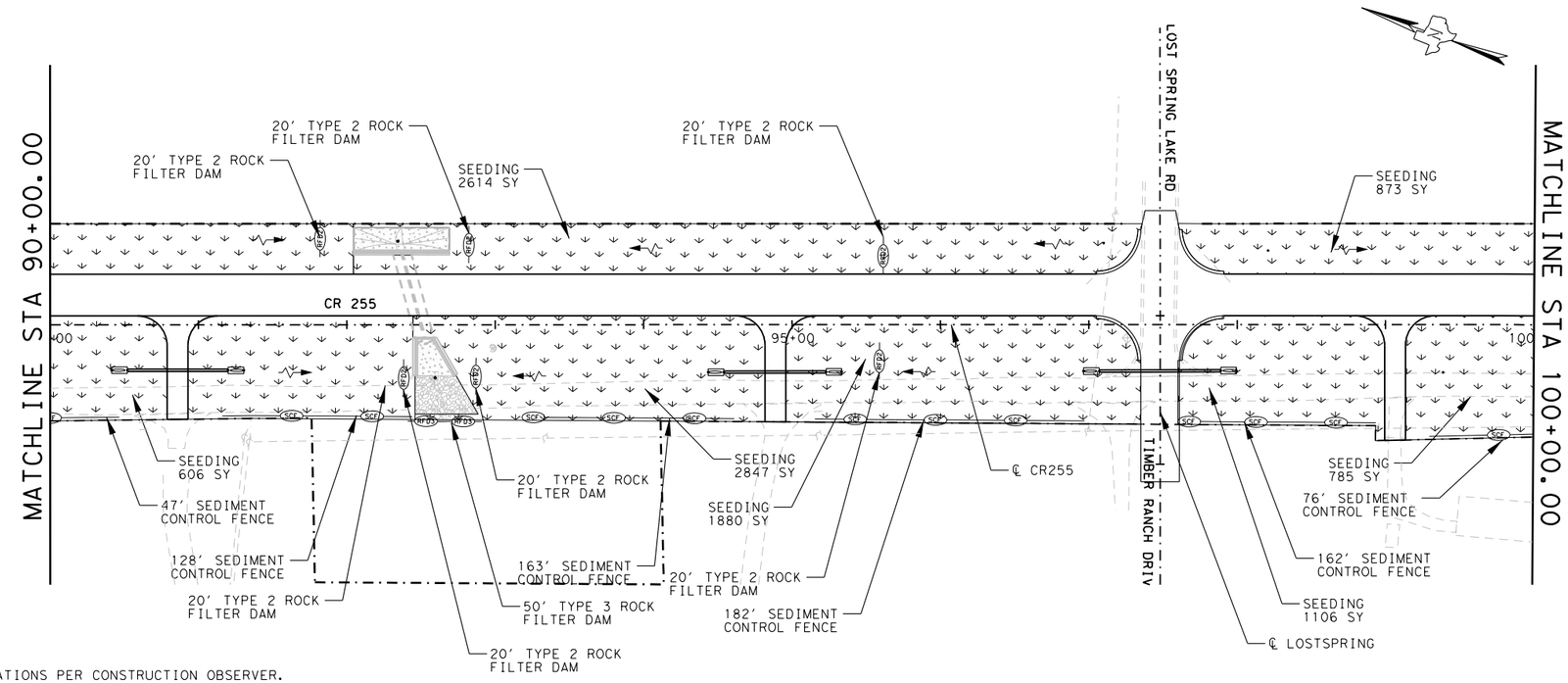


NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

0 50 100

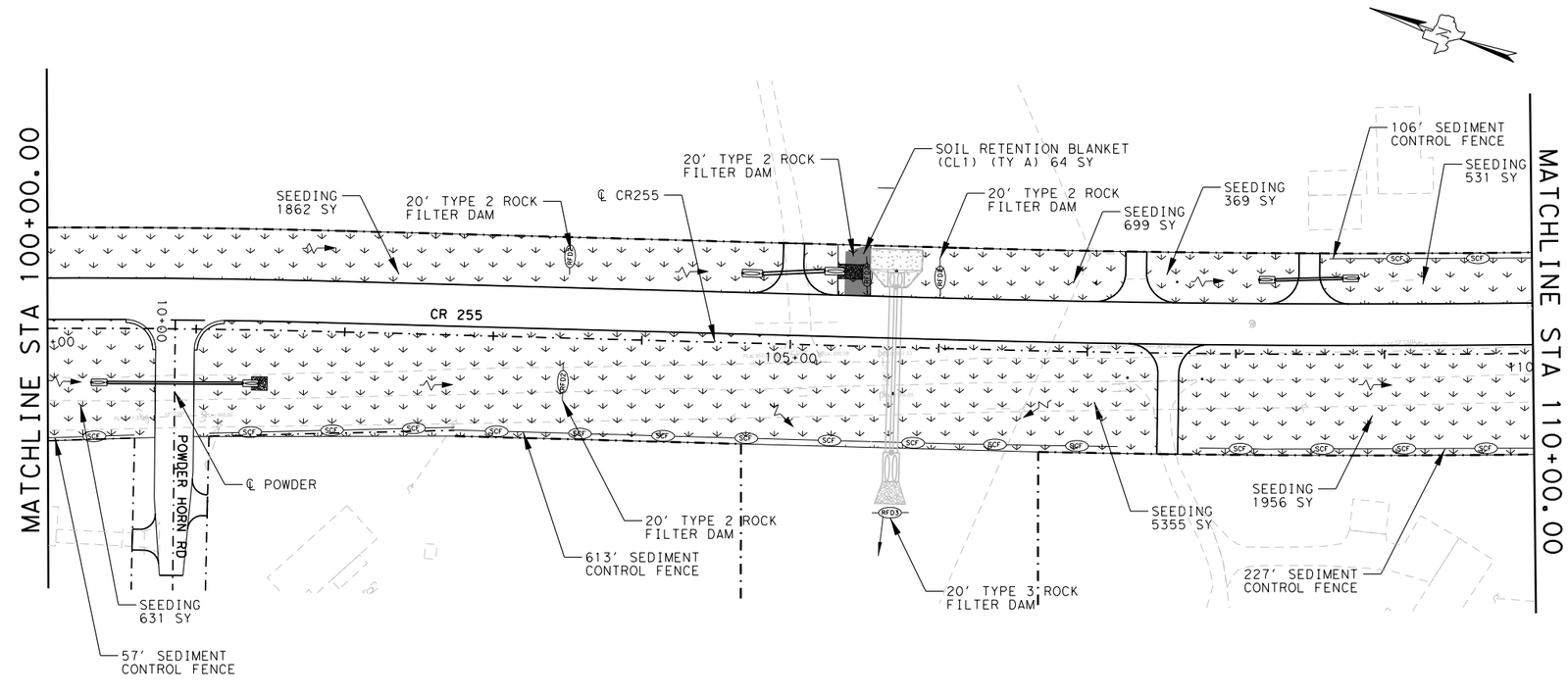
SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	22114
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	64
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	220
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	70
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	290
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	1761
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	1761



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 90+00 TO STA 110+00

SHEET 5 OF 8

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			306

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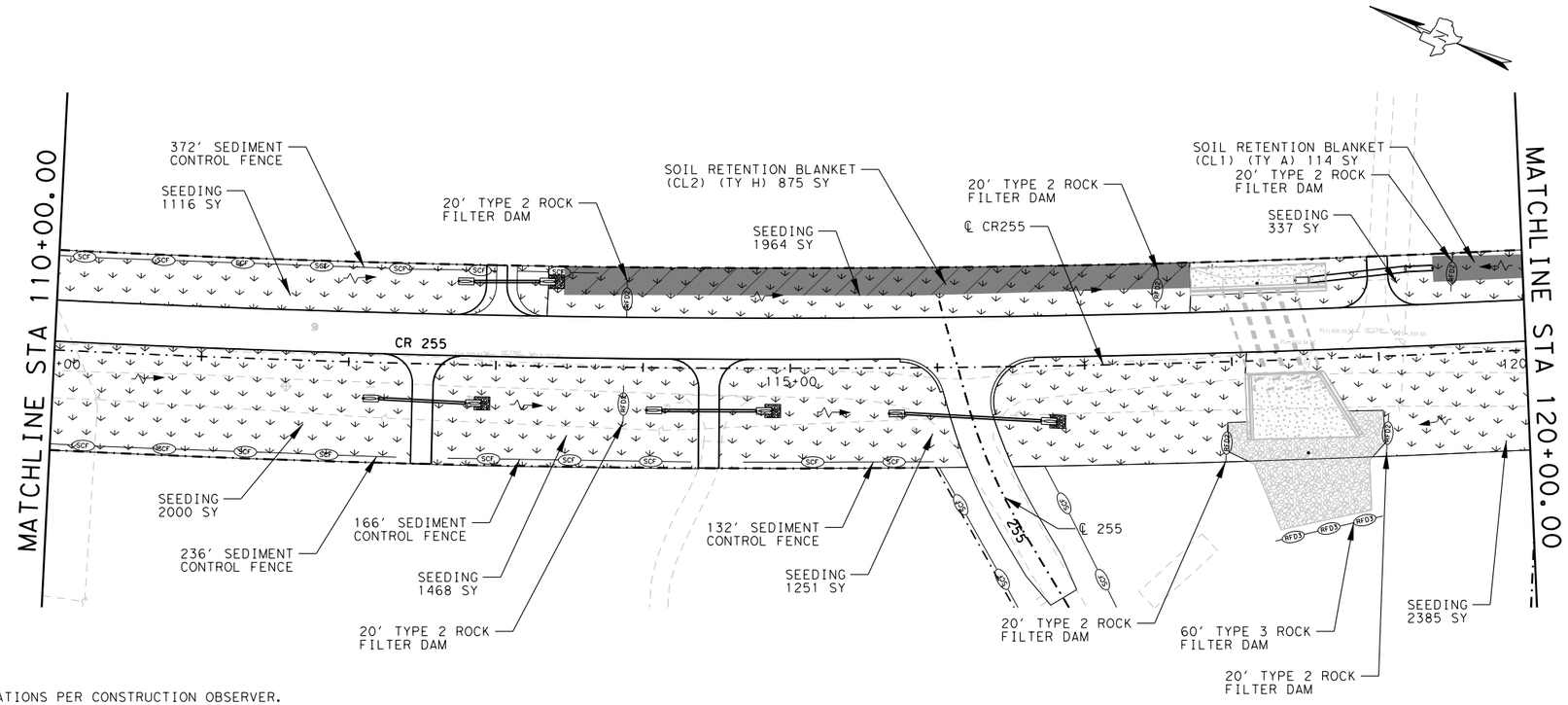


NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

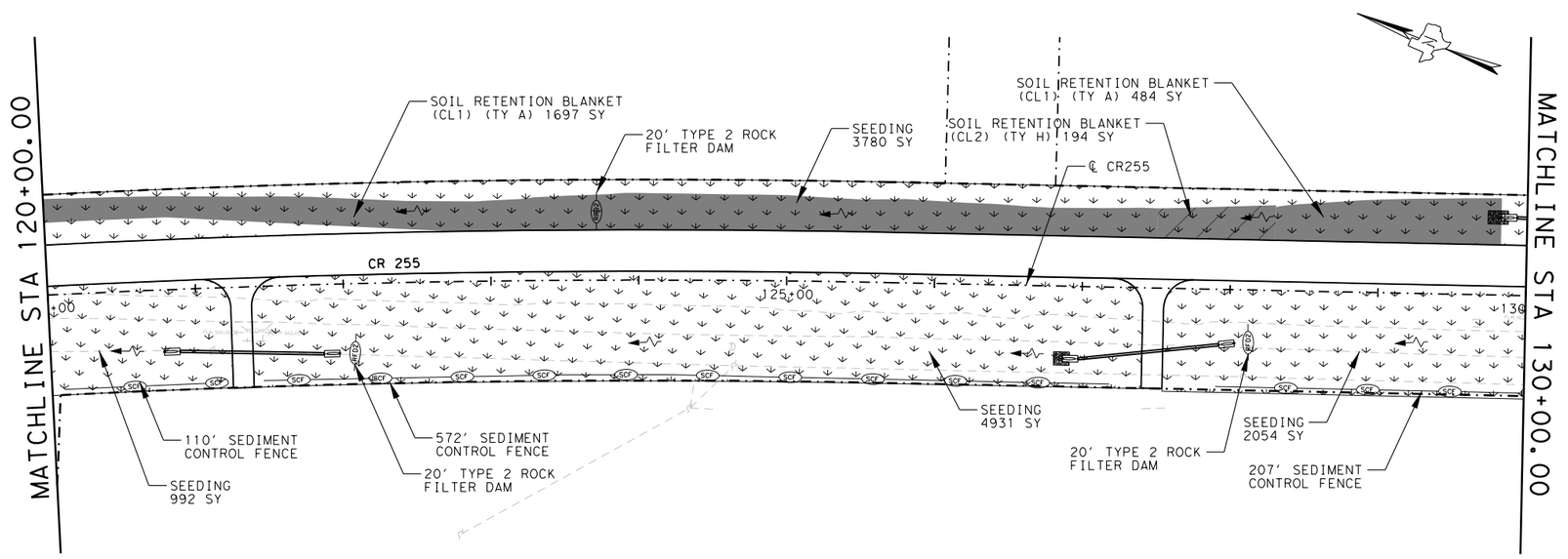
SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- ROCK FILTER DAM TY 2
- ROCK FILTER DAM TY 3
- SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS (CL1) (TYP A)
- SOIL RETENTION BLANKETS (CL2) (TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	22278
	169-6001	SOIL RETENTION BLANKETS (CL1) (TYP A)	SY	2295
	169-6008	SOIL RETENTION BLANKETS (CL2) (TYP H)	SY	1069
RFD-2	506-6002	ROCK FILTER DAMS (INSTALL) (TY2)	LF	160
RFD-3	506-6003	ROCK FILTER DAMS (INSTALL) (TY3)	LF	60
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	220
SCF	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	1795
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	1795



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 110+00 TO STA 130+00

SHEET 6 OF 8

DESIGNED: ___	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED: ___		TEXAS		CR 255
DRAWN: ___	COUNTY			JOB No. / SHEET No.
CHECKED: ___	WILLIAMSON			307

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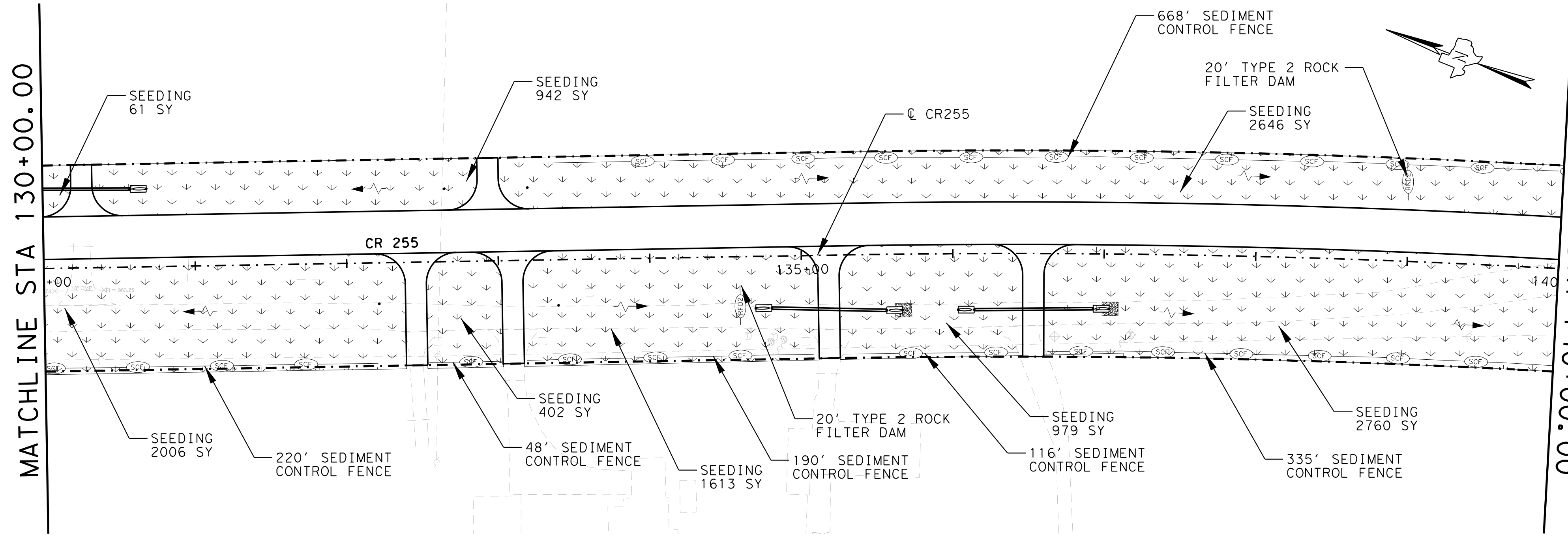


0 50 100
SCALE: 1" = 100'

LEGEND

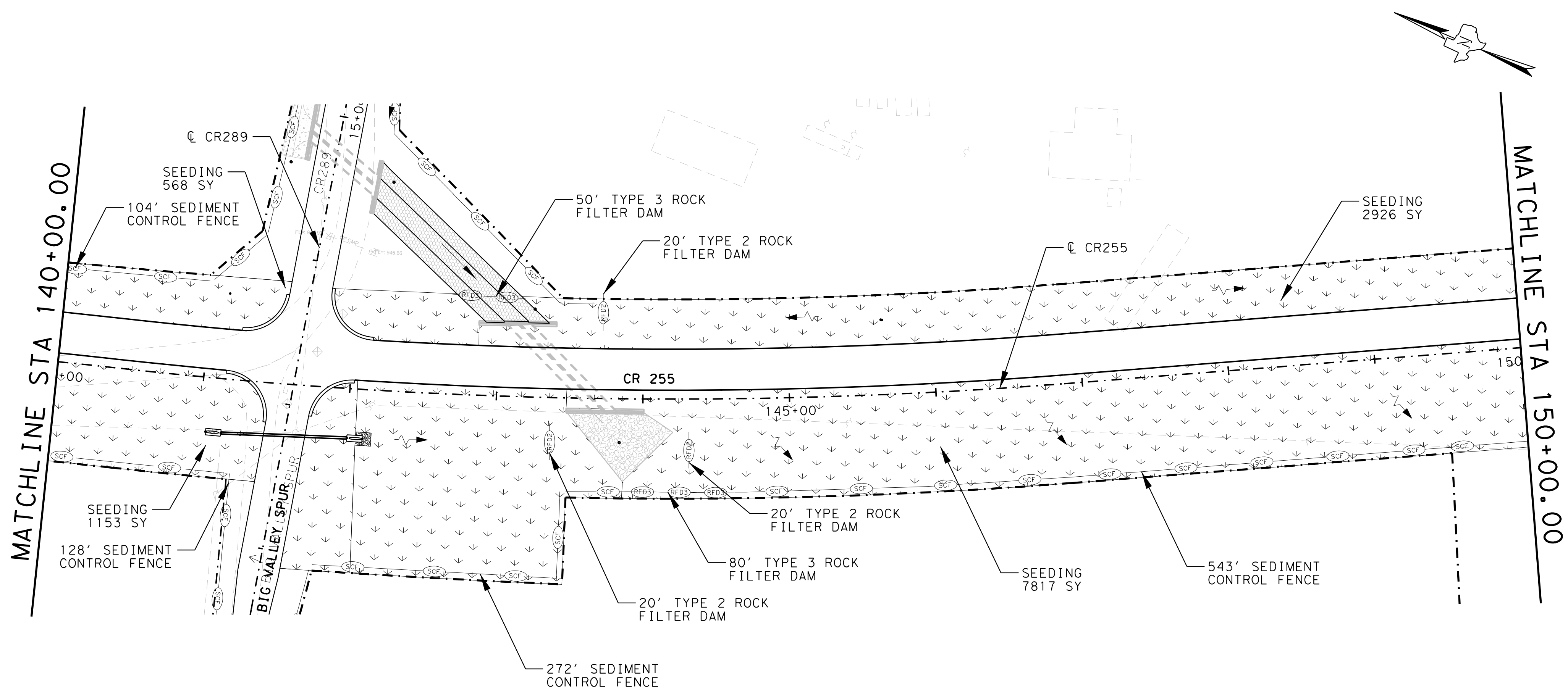
- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 ROCK FILTER DAM TY 2
- RFD-3 ROCK FILTER DAM TY 3
- SCF SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	23873
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	100
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	130
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	230
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	2624
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	2624

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.



WILCO TEXAS
WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group
TBPE License No. 12670
PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 130+00 TO STA 150+00

SHEET 7 OF 8

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY		JOB No.	SHEET No.
CHECKED:	WILLIAMSON			308

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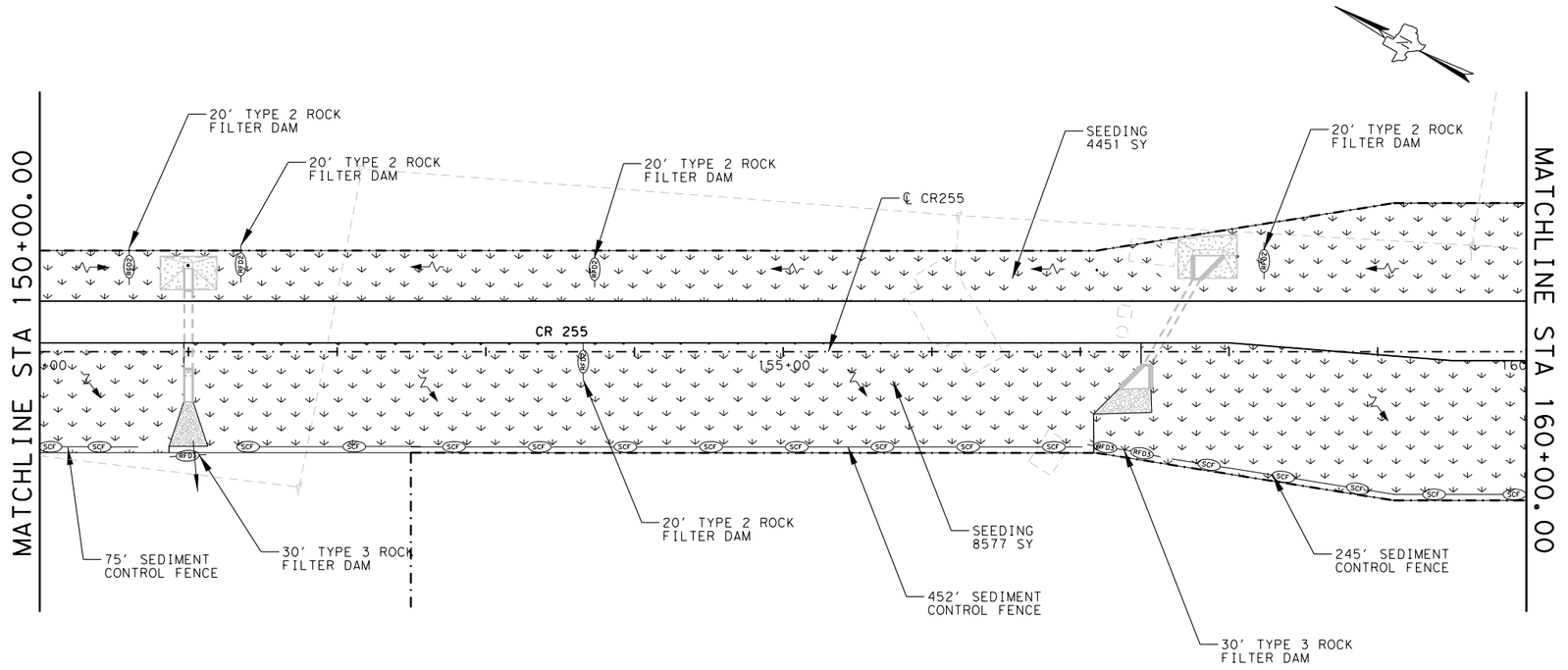


NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

0 50 100

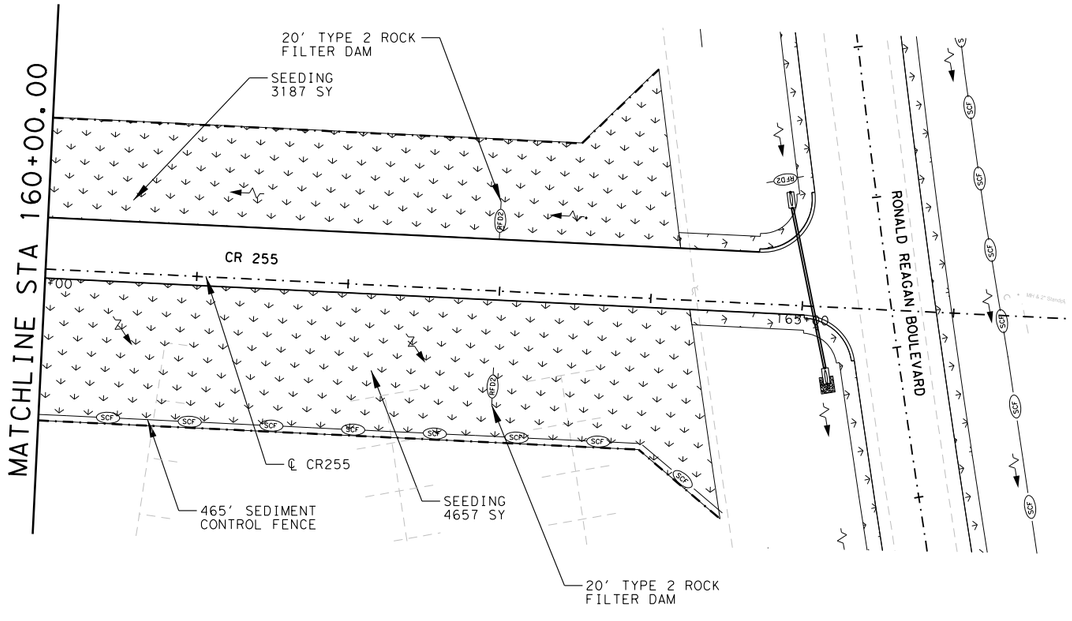
SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS (CL1) (TYP A)
- SOIL RETENTION BLANKETS (CL2) (TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	20872
	169-6001	SOIL RETENTION BLANKETS (CL1) (TYP A)	SY	
	169-6008	SOIL RETENTION BLANKETS (CL2) (TYP H)	SY	
RFD-2	506-6002	ROCK FILTER DAMS (INSTALL) (TY2)	LF	140
RFD-3	506-6003	ROCK FILTER DAMS (INSTALL) (TY3)	LF	60
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	200
SCF	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	1237
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	1237



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255

SWP3

STA 150+00 TO END

DESIGNED: ___	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED: ___		TEXAS		CR 255
DRAWN: ___	COUNTY			JOB No. / SHEET No.
CHECKED: ___	WILLIAMSON			309

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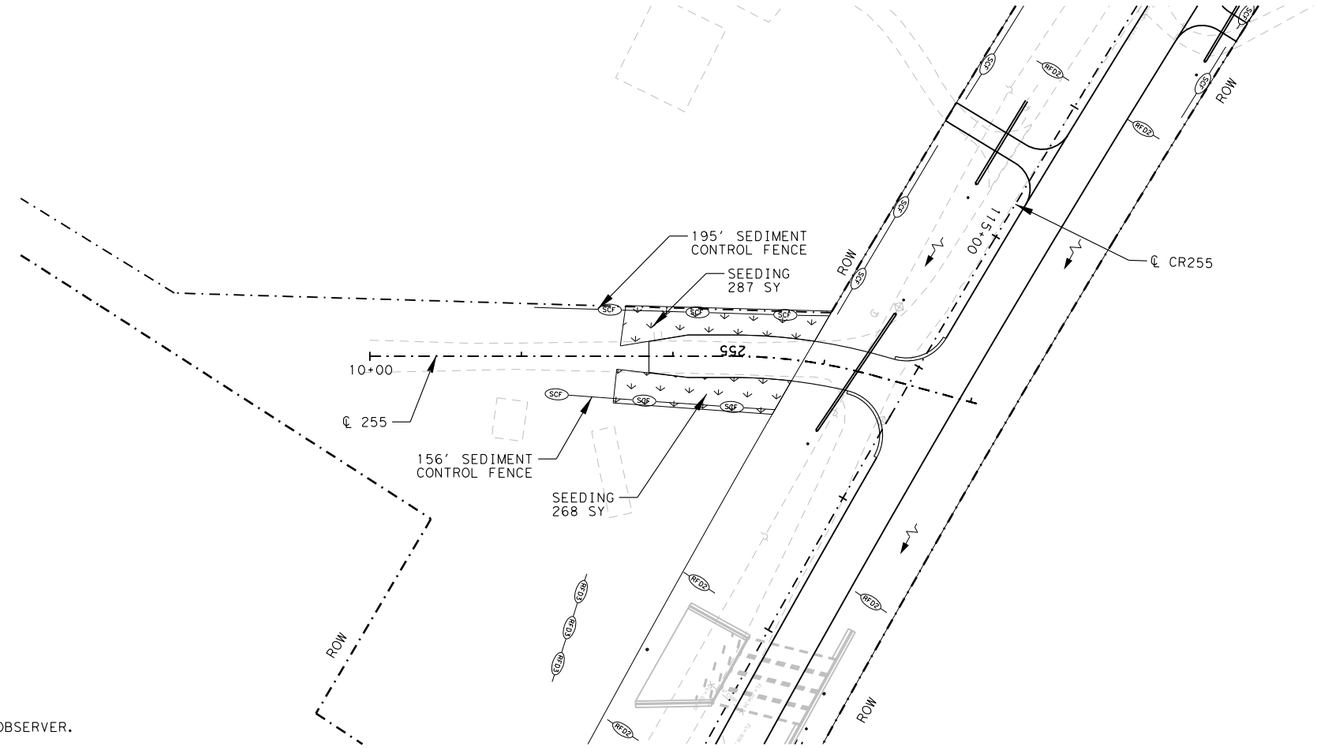

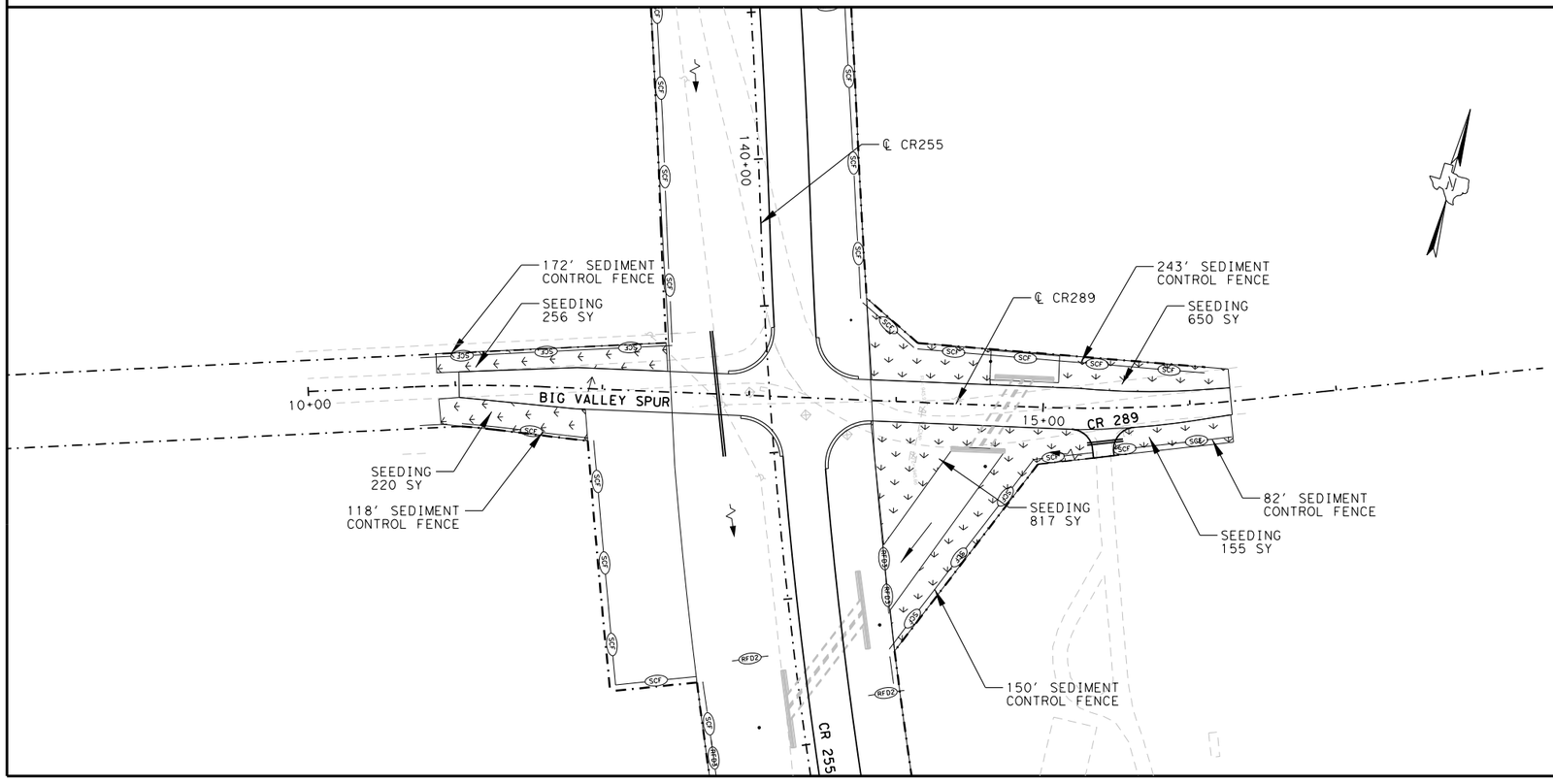

0 50 100

SCALE: 1" = 100'

LEGEND

- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS(CL1)(TYP A)
- SOIL RETENTION BLANKETS(CL2)(TYP H)

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	2653
	169-6001	SOIL RETENTION BLANKETS (CL1)(TYP A)	SY	
	169-6008	SOIL RETENTION BLANKETS (CL2)(TYP H)	SY	
RFD-2	506-6002	ROCK FILTER DAMS(INSTALL)(TY2)	LF	
RFD-3	506-6003	ROCK FILTER DAMS(INSTALL)(TY3)	LF	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	
SCF	506-6038	TEMP SEDMT CONT FENCE(INSTALL)	LF	1200
	506-6039	TEMP SEDMT CONT FENCE(REMOVE)	LF	1200

STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

Seiler Lankes Group — TBPE License No. 12670

PLANNING • ENGINEERING • CONSTRUCTION

CR 255
255/CR289
SWP3

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
CHECKED:	WILLIAMSON			310

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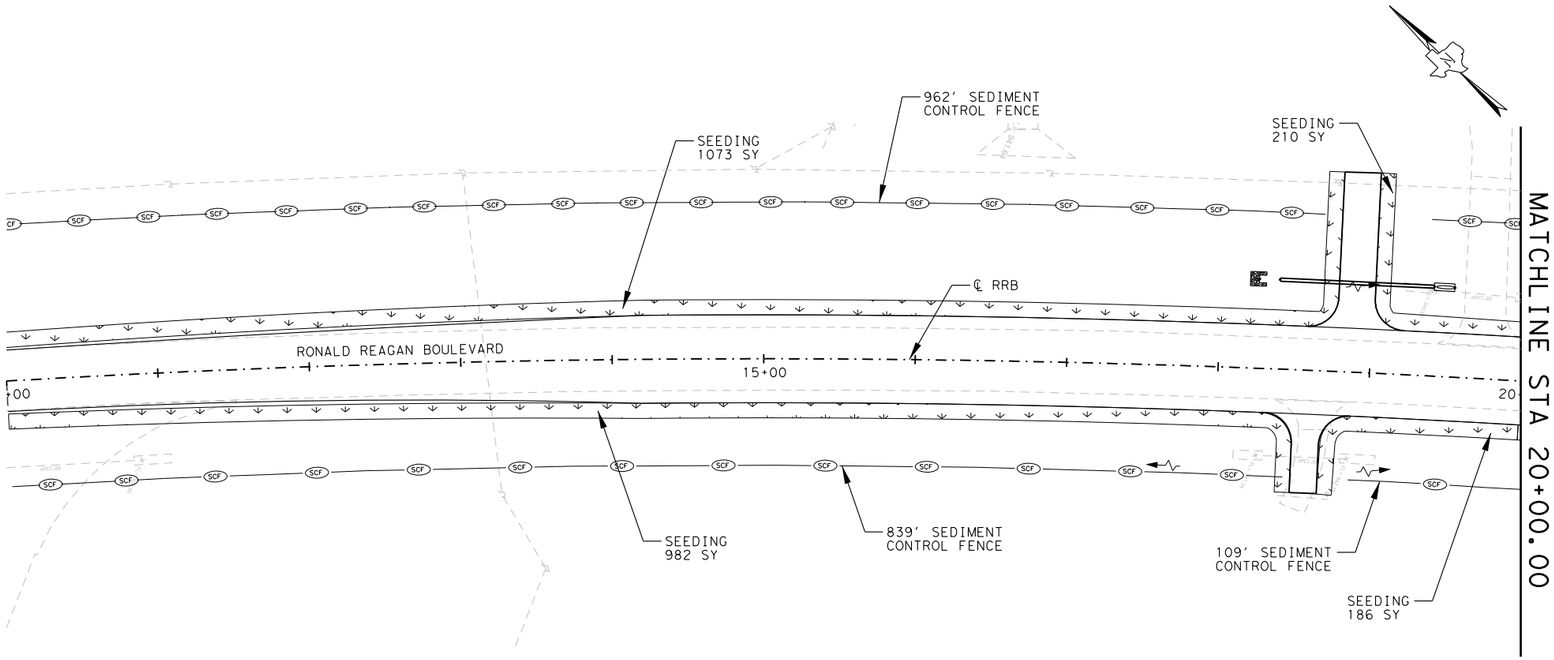


SCALE: 1" = 100'

LEGEND

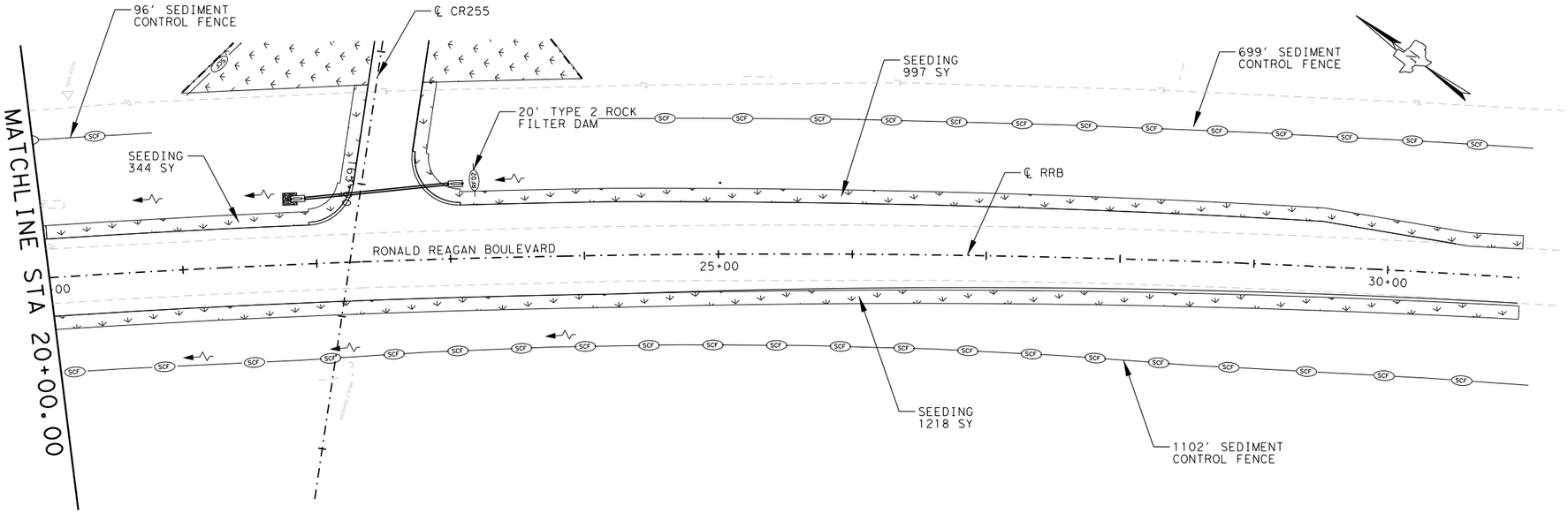
- OUTFALL DIRECTION
- FLOW DIRECTION
- RFD-2 — ROCK FILTER DAM TY 2
- RFD-3 — ROCK FILTER DAM TY 3
- SCF — SEDIMENT CONTROL FENCE
- ROCK CONSTRUCTION EXIT
- SEEDING
- SOIL RETENTION BLANKETS (CL1) (TYP A)
- SOIL RETENTION BLANKETS (CL2) (TYP H)

SWP3 QUANTITIES

SYM	ITEM	DESCRIPTION	UNIT	QTY
	164-WC05	SEEDING	SY	5010
	169-6001	SOIL RETENTION BLANKETS (CL1) (TYP A)	SY	
	169-6008	SOIL RETENTION BLANKETS (CL2) (TYP H)	SY	
RFD-2	506-6002	ROCK FILTER DAMS (INSTALL) (TY2)	LF	20
RFD-3	506-6003	ROCK FILTER DAMS (INSTALL) (TY3)	LF	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF	20
SCF	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF	3807
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF	3807

NOTES:

1. LOCATIONS PER CONSTRUCTION OBSERVER.



STATE OF TEXAS
GERALD A. LANKES
107484
LICENSED PROFESSIONAL ENGINEER
7/11/2024

WILCO TEXAS

WILLIAMSON COUNTY DEPT. OF INFRASTRUCTURE

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TBPE License No. 12670
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CR 255
RONALD REAGAN
SWP3
BEGIN TO END

SHEET 1 OF 1

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS		CR 255
DRAWN:	COUNTY			JOB No. / SHEET No.
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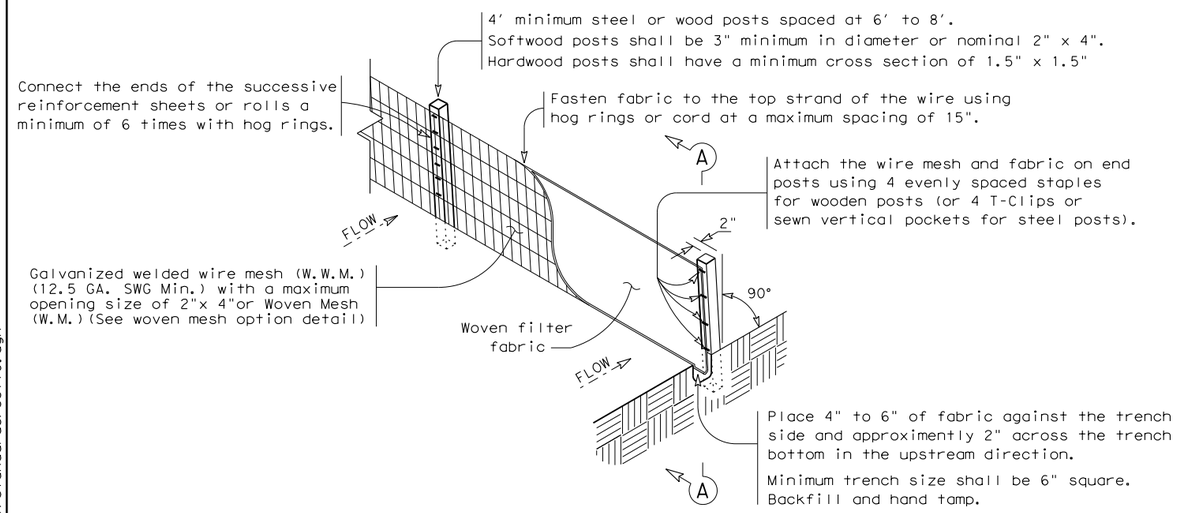
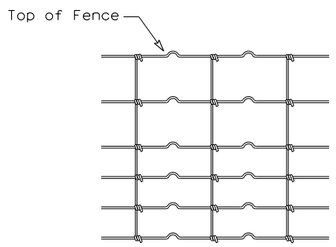
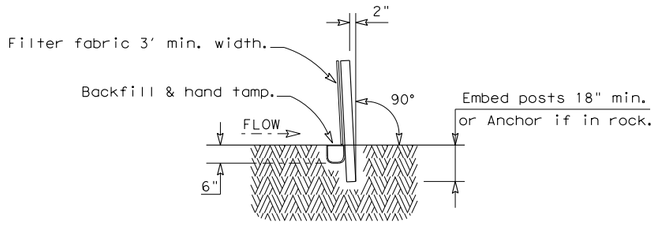


TEMPORARY SEDIMENT CONTROL FENCE

SCF





SECTION A-A

HINGE JOINT KNOT WOVEN MESH (OPTION) DETAIL

Galvanized hinge joint knot woven mesh (12.5 GA.SWG Min.) requires a minimum of five horizontal wires spaced at a maximum of 12 inches apart and all vertical wires spaced at a maximum of 12 inches apart.

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a maximum flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

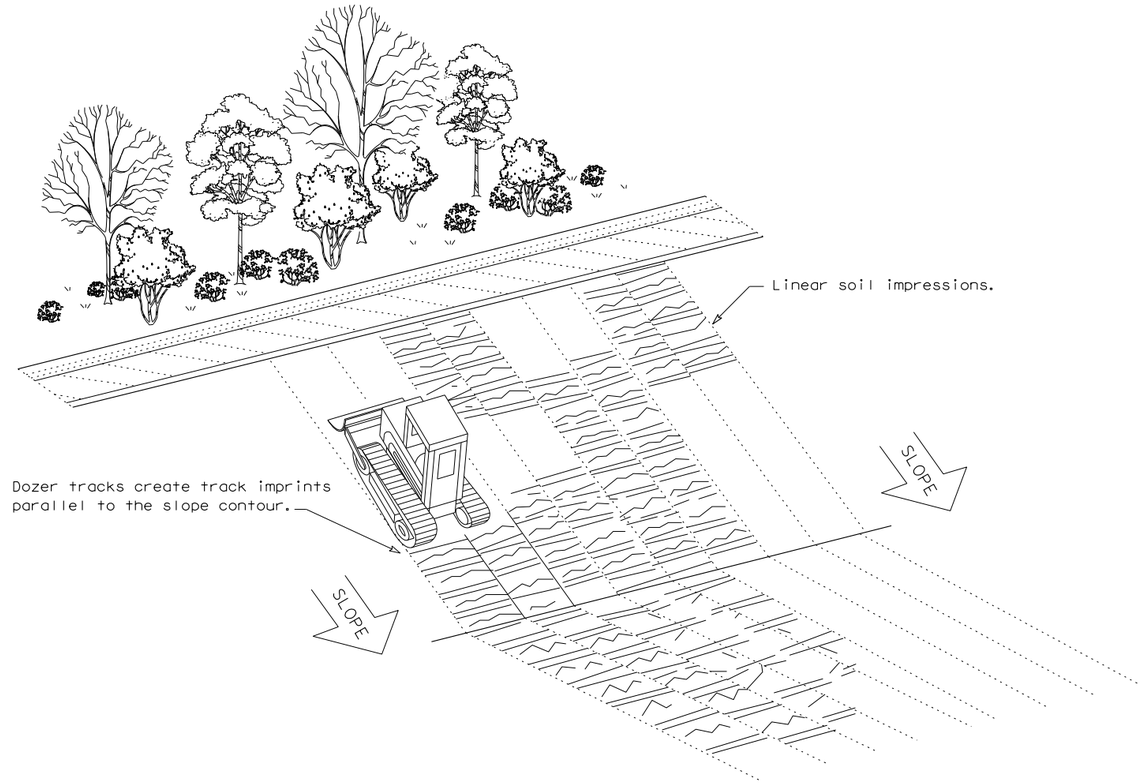
LEGEND

Sediment Control Fence

SCF

GENERAL NOTES

1. Vertical tracking is required on projects where soil distributing activities have occurred unless otherwise approved.
2. Perform vertical tracking on slopes to temporarily stabilize soil.
3. Provide equipment with a track undercarriage capable of producing linear soil impressions measuring a minimum of 12" in length by 2" to 4" in width by 1/2" to 2" in depth.
4. Do not exceed 12" between track impressions.
5. Install continous linear track impressions where the minimum 12" length impressions are perpendicular to the slope or direction of water flow.



VERTICAL TRACKING

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & VERTICAL TRACKING

EC(1)-16

FILE: ec116	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS				CR 255
	DIST	COUNTY		SHEET NO.
	AUS	WILLIAMSON		312

DATE: 7/11/2024
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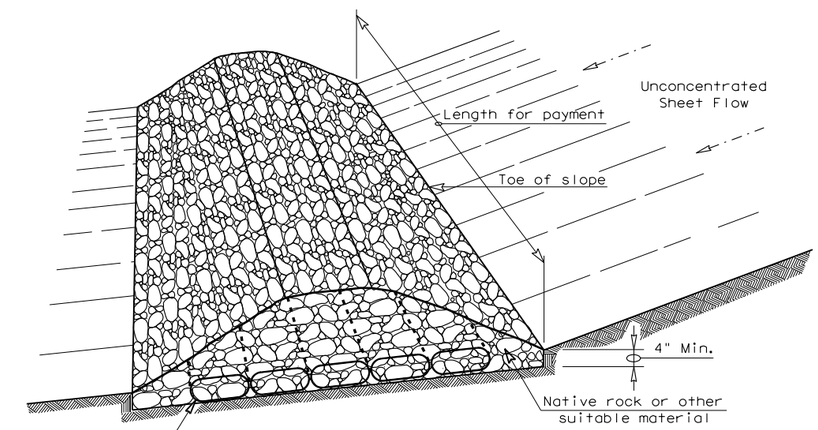
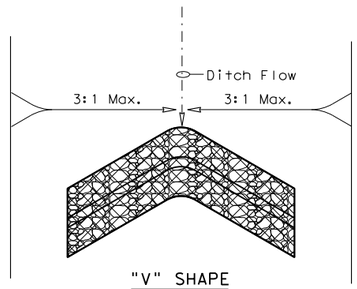
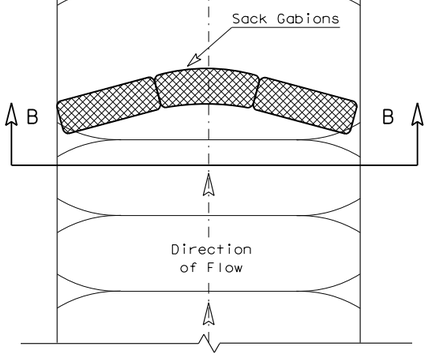


FILTER DAM AT TOE OF SLOPE

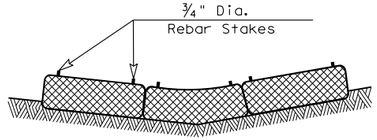
RFD1



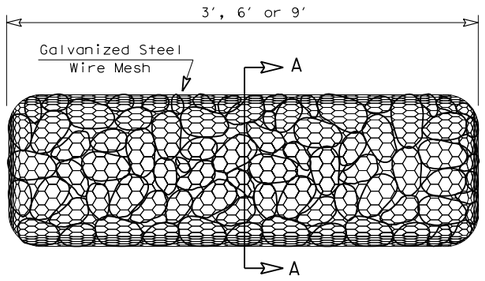
"V" SHAPE
PLAN VIEW



PLAN VIEW

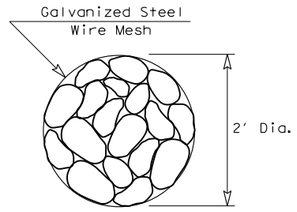


SECTION B-B

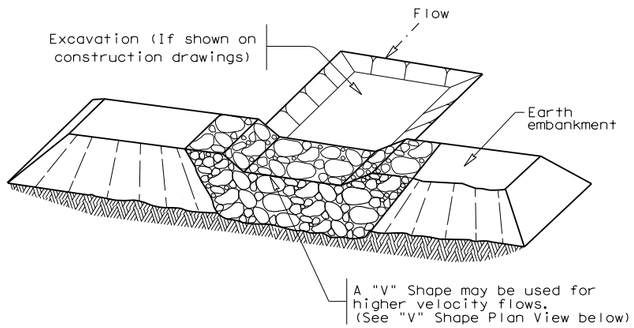


TYPE 4 (SACK GABIONS)

RFD4

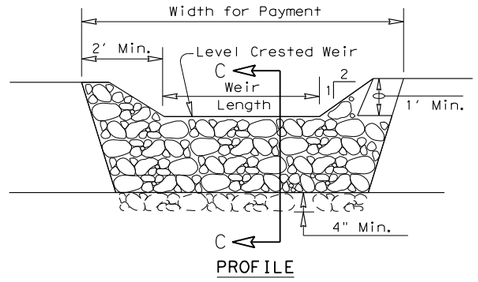


SECTION A-A

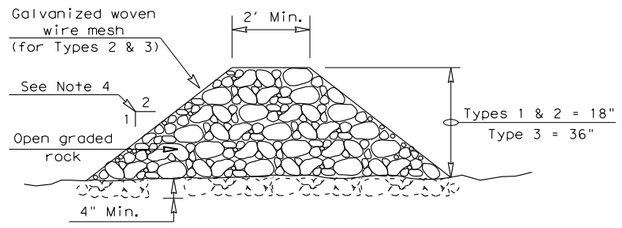


FILTER DAM AT SEDIMENT TRAP

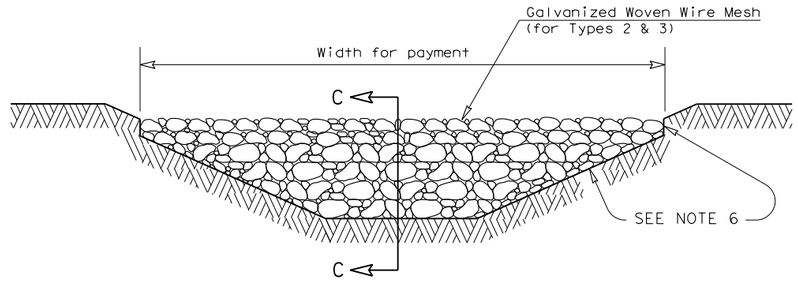
RFD1 OR RFD2



PROFILE



SECTION C-C



FILTER DAM AT CHANNEL SECTIONS

RFD1 OR RFD2 OR RFD3

ROCK FILTER DAM USAGE GUIDELINES

Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh) (3" to 6" aggregate): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approximently 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh) (3" to 6" aggregate): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh) (4" to 8" aggregate): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions) (3" to 6" aggregate): Type 4 May be used in ditches and smaller channels to form an erosion control dam.

Type 5: Provide rock filter dams as shown on plans.

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. For in stream use, the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes, and have a double-twisted hexagonal weave with a nominal mesh opening of 2 ½" x 3 ¼"
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

PLAN SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3
Type 4 Rock Filter Dam — RFD4

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

EC(2)-16

FILE: ec216	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS		
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY		
REVISIONS				CR 255		
	DIST	COUNTY		SHEET NO.		
	AUS	WILLIAMSON		313		

DATE: 7/11/2024
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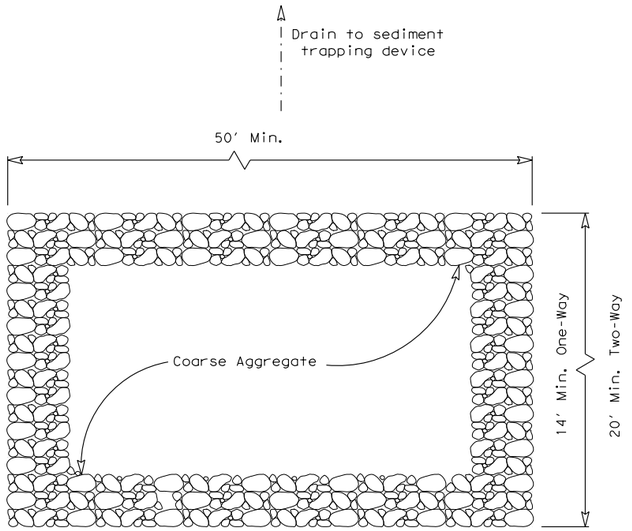
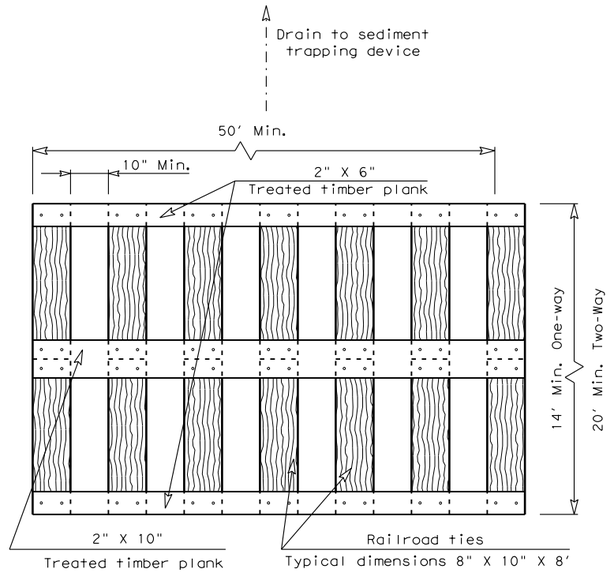
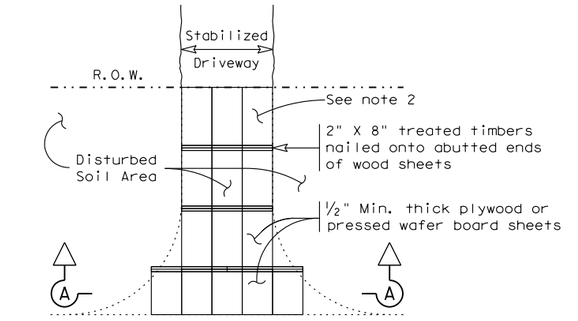


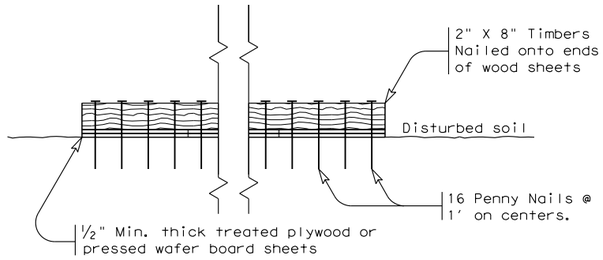
PLAN VIEW



PLAN VIEW



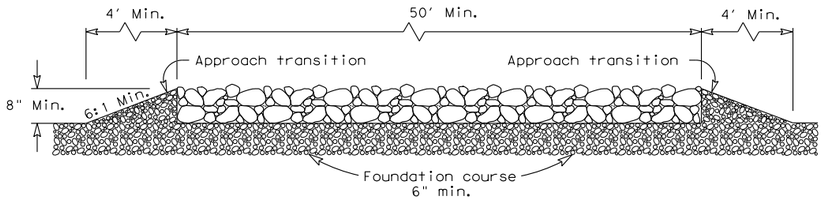
PLAN VIEW



SECTION A-A

CONSTRUCTION EXIT (TYPE 3)

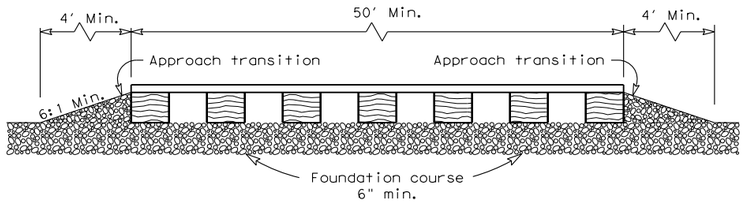
SHORT TERM



ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 1)

ROCK CONSTRUCTION (LONG TERM)



ELEVATION VIEW

CONSTRUCTION EXIT (TYPE 2)

TIMBER CONSTRUCTION (LONG TERM)

GENERAL NOTES (TYPE 1)

1. The length of the type 1 construction exit shall be as indicated on the plans, but not less than 50'.
2. The coarse aggregate should be open graded with a size of 4" to 8".
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other materialas approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
7. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

GENERAL NOTES (TYPE 2)

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with ½"x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.
8. Construct exits with a width of at least 14 ft. for one-way and 20 ft. for two-way traffic for the full width of the exit, or as directed by the engineer.

GENERAL NOTES (TYPE 3)

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

CONSTRUCTION EXITS

EC(3)-16

FILE: ec316	DN: TxDOT	CK: KM	DW: VP	DN/CK: LS
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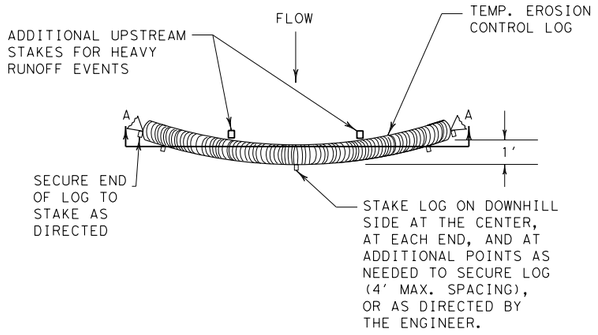

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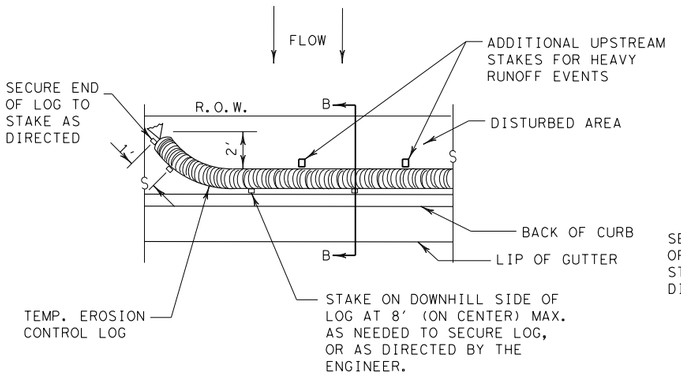

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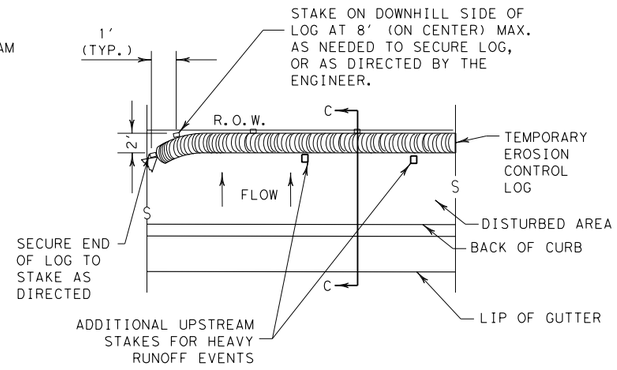

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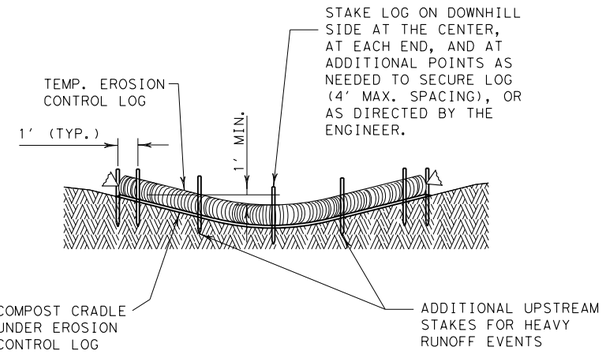
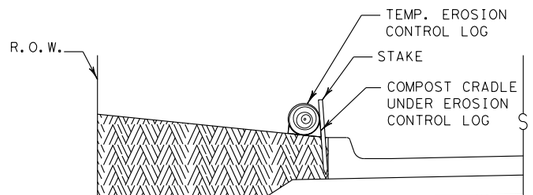


SECTION A-A

EROSION CONTROL LOG DAM

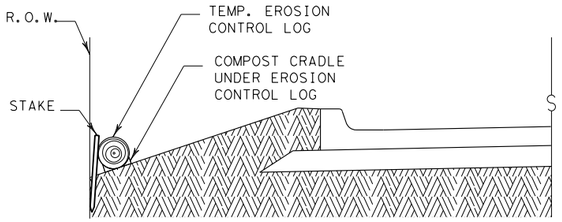
CL-D



SECTION B-B

EROSION CONTROL LOG AT BACK OF CURB

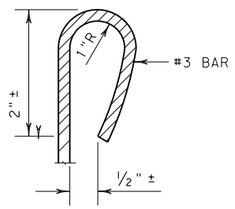
CL-BOC



SECTION C-C

EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY

CL-ROW



REBAR STAKE DETAIL

LEGEND

- CL-D — EROSION CONTROL LOG DAM
- CL-BOC — EROSION CONTROL LOG AT BACK OF CURB
- CL-ROW — EROSION CONTROL LOG AT EDGE OF RIGHT-OF-WAY
- CL-SST — EROSION CONTROL LOGS ON SLOPES STAKE AND TRENCHING ANCHORING
- CL-SSL — EROSION CONTROL LOGS ON SLOPES STAKE AND LASHING ANCHORING
- CL-DI — EROSION CONTROL LOG AT DROP INLET
- CL-CI — EROSION CONTROL LOG AT CURB INLET
- CL-GI — EROSION CONTROL LOG AT CURB & GRATE INLET

GENERAL NOTES:

1. EROSION CONTROL LOGS SHALL BE INSTALLED IN ACCORDANCE WITH MANFACTURER'S RECOMMENDATIONS, OR AS DIRECTED BY THE ENGINEER.
2. LENGTHS OF EROSION CONTROL LOGS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED FOR THE PURPOSE INTENDED.
3. UNLESS OTHERWISE DIRECTED, USE BIODEGRADABLE OR PHOTODEGRADABLE CONTAINMENT MESH ONLY WHERE LOG WILL REMAIN IN PLACE AS PART OF A VEGETATIVE SYSTEM. FOR TEMPORARY INSTALLATIONS, USE RECYCLABLE CONTAINMENT MESH.
4. FILL LOGS WITH SUFFICIENT FILTER MATERIAL TO ACHIEVE THE MINIMUM COMPACTED DIAMETER SPECIFIED IN THE PLANS WITHOUT EXCESSIVE DEFORMATION.
5. STAKES SHALL BE 2" X 2" WOOD OR #3 REBAR, 2'-4' LONG, EMBEDDED SUCH THAT 2" PROTRUDES ABOVE LOG, OR AS DIRECTED BY THE ENGINEER.
6. DO NOT PLACE STAKES THROUGH CONTAINMENT MESH.
7. COMPOST CRADLE MATERIAL IS INCIDENTAL & WILL NOT BE PAID FOR SEPARATELY.
8. SANDBAGS USED AS ANCHORS SHALL BE PLACED ON TOP OF LOGS & SHALL BE OF SUFFICIENT SIZE TO HOLD LOGS IN PLACE.
9. TURN THE ENDS OF EACH ROW OF LOGS UPSLOPE TO PREVENT RUNOFF FROM FLOWING AROUND THE LOG.
10. FOR HEAVY RUNOFF EVENTS, ADDITIONAL UPSTREAM STAKES MAY BE NECESSARY TO KEEP LOG FROM FOLDING IN ON ITSELF.

SEDIMENT BASIN & TRAP USAGE GUIDELINES

An erosion control log sediment trap may be used to filter sediment out of runoff draining from an unstabilized area.

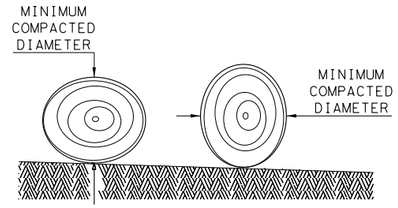
Log Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1800 CF/Acre (0.5" over the drainage area).

Control logs should be placed in the following locations:

1. Within drainage ditches spaced as needed or min. 500' on center
2. Immediately preceding ditch inlets or drain inlets
3. Just before the drainage enters a water course
4. Just before the drainage leaves the right of way
5. Just before the drainage leaves the construction limits where drainage flows away from the project.

The logs should be cleaned when the sediment has accumulated to a depth of 1/2 the log diameter.

Cleaning and removal of accumulated sediment deposits is incidental and will not be paid for separately.



DIAMETER MEASUREMENTS OF EROSION CONTROL LOGS SPECIFIED IN PLANS

Texas Department of Transportation — Design Division Standard

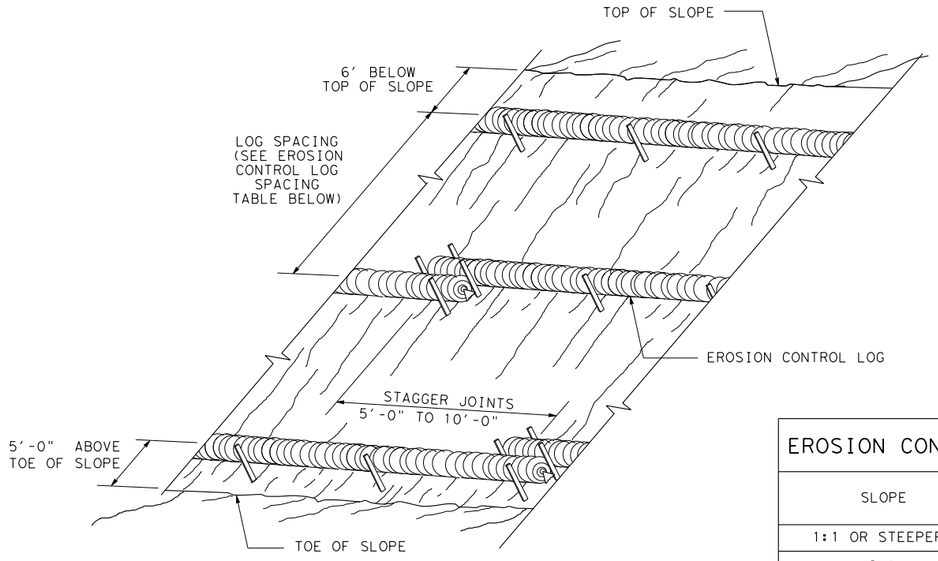
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

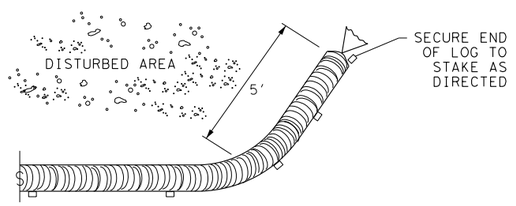
FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS	
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY	
REVISIONS				CR 255	
	DIST	COUNTY		SHEET NO.	
	AUS	WILLIAMSON		315	

DATE: 7/11/2024
FILE: pw://server.slg-eng.com:Slg-ds/Documents/WILCO302-CR255_CR289/Design_Data/4 - Design/Plan_Set/09. Environmental/Standards/ec916_2.dgn



EROSION CONTROL LOGS ON SLOPES
STAKE AND TRENCHING ANCHORING

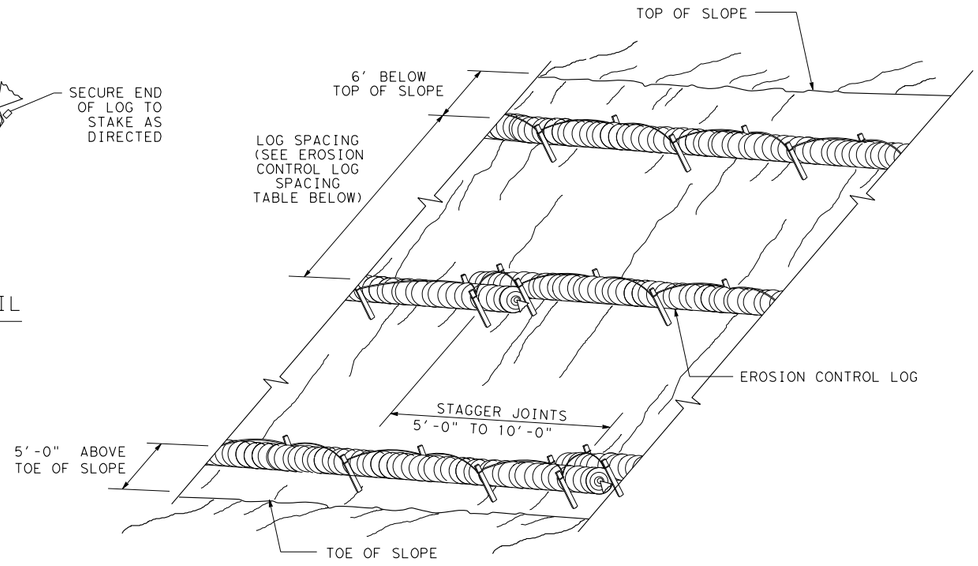
CL-SST



END SECTION RAP DETAIL

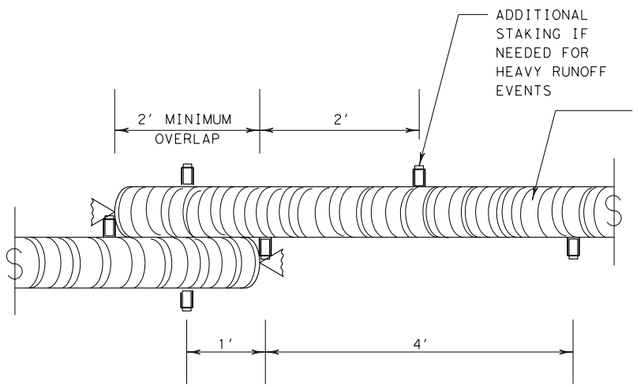
EROSION CONTROL LOG SPACING TABLE				
SLOPE	LOG DIAMETER			
	6"	8"	12"	18"
1:1 OR STEEPER	5'	10'	15'	20'
2:1	10'	20'	30'	40'
3:1	15'	30'	45'	60'
4:1 OR FLATTER	20'	40'	60'	80'

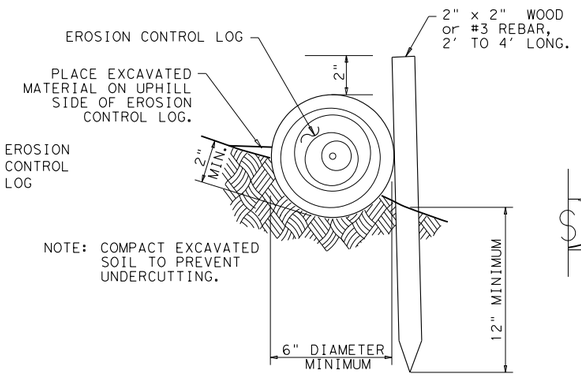
* ADJUSTMENTS CAN BE MADE FOR SOIL TYPE:
SOFT, LOAMY SOILS-ADJUST ROWS CLOSER TOGETHER;
HARD, ROCKY SOILS- ADJUST ROWS FARTHER APART



EROSION CONTROL LOGS ON SLOPES
STAKE AND LASHING ANCHORING

CL-SSL

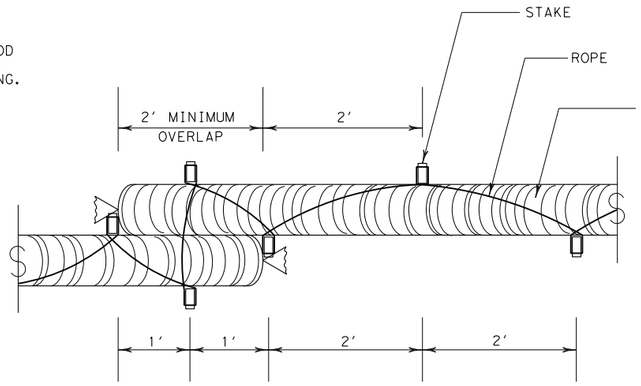


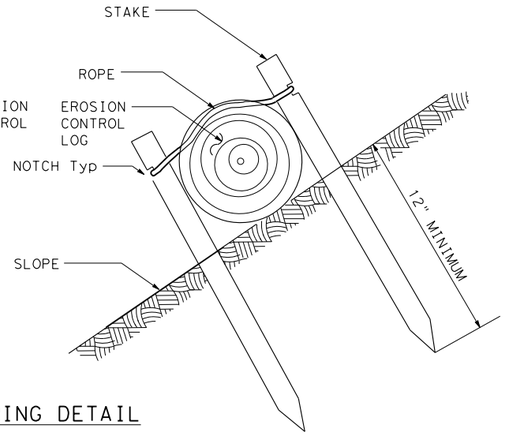


STAKE AND TRENCHING ANCHORING DETAIL

CL-SST

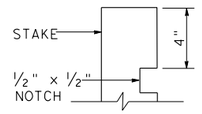
TRENCH DEPTH TABLE	
LOG DIAMETER	DEPTH
6"	2"
8"	3"
12"	4"
18"	5"





STAKE AND LASHING ANCHORING DETAIL

CL-SSL



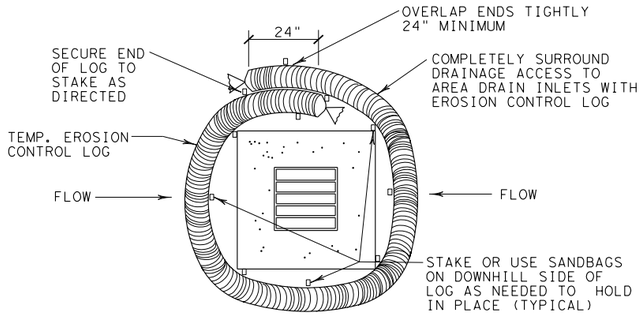
STAKE NOTCH DETAIL

Texas Department of Transportation — Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES
EROSION CONTROL LOG
EC(9)-16

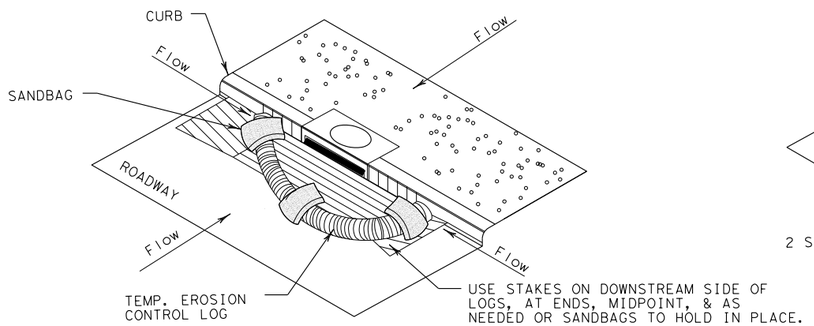
FILE: ec116	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS	
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY	
REVISIONS				CR 255	
	DIST	COUNTY		SHEET NO.	
	AUS	WILLIAMSON		316	

DATE: 7/11/2024
FILE: pw://server.slg-eng.com:Slg-ds/Documents/WILCO302-CR255_CR289/Design_Data/4 - Design/Plan_Set/09. Environmental/Standards/ec916_3.dgn



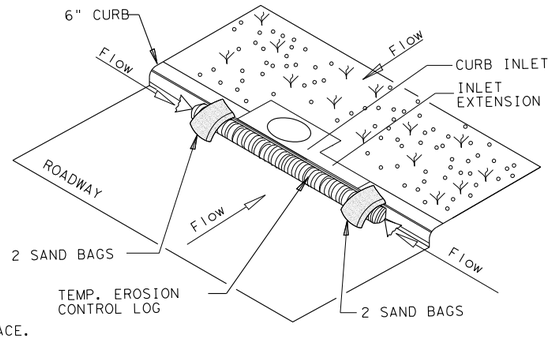
EROSION CONTROL LOG AT DROP INLET

CL-DI



EROSION CONTROL LOG AT CURB INLET

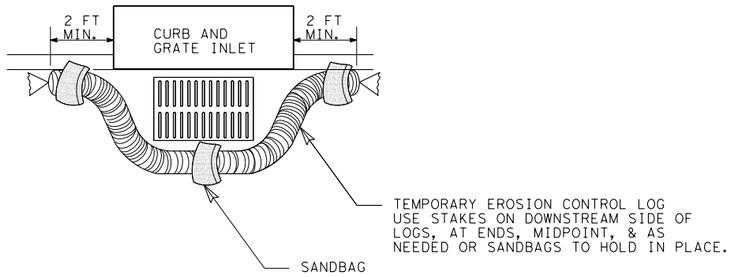
CL-CI



EROSION CONTROL LOG AT CURB INLET

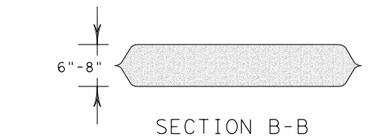
CL-CI

NOTE:
EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.

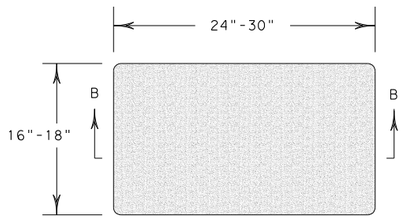


EROSION CONTROL LOG AT CURB & GRADE INLET

CL-GI



SECTION B-B



SANDBAG DETAIL

Texas Department of Transportation

Design Division Standard

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

EROSION CONTROL LOG

EC(9)-16

FILE: ec916	DN: TxDOT	CK: KM	DW: LS/PT	CK: LS			
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY			
REVISIONS				CR 255			
	DIST	COUNTY		SHEET NO.			
	AUS	WILLIAMSON		317			

ATTACHMENT H – INSPECTION, MAINTENANCE, REPAIR & RETROFIT PLAN

Highway: County Road 255 Improvements

Limits: From approximately intersection of County Road 254 to Ronald Reagan Blvd.

County: Williamson County

BMP maintenance operations should be performed on a regular basis as outlined below and as required to ensure that the BMPs and measures are constructed and functioning as designed. Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Operations must also be performed as required to maintain site aesthetics, vegetation, BMP access, and debris removal. After a Texas licensed professional engineer has certified that the permanent BMPs and measures were constructed as designed and certification has been submitted to the TCEQ regional office, the maintenance schedule as outlined below will commence.

GENERAL

- Records and diaries will be kept for maintenance activities listed and performed by Williamson County, and contractors. All records must be retained for a period of not less than five (5) years.
- Maintenance and contracted personnel may oversee minor repairs. Major repairs or retrofits must be overseen by City of Georgetown.
- Roadways and roadsides will be reviewed regularly, by maintenance forces. BMPs will be inspected after rainfall events greater than four inches to ensure no damage to grass cover, accumulation of litter, or erosion has occurred. Areas of concern will be noted, and any necessary maintenance scheduled.
- Right-of-way areas will be mowed by contract. Cutting height is a minimum of five inches. Mowing will be delayed during times when preferred vegetation is seeding to allow for natural propagation to continue.

PEST MANAGEMENT

An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.

SEASONAL MOWING AND LAWN CARE

If the filter strip is made up of turf grass, it should be mowed as needed to limit vegetation height to 18 inches, using a mulching mower or remove the clippings. If native grasses are used, the filter may require less frequent mowing, but a minimum of twice annually. Grass clippings and

brush debris should not be deposited on vegetated filter strip areas. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients. Irrigation of the site can help assure a dense and healthy vegetative cover.

INSPECTION

Inspect filter strips at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The strip should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.

DEBRIS AND LITTER REMOVAL

Trash tends to accumulate in vegetated areas, particularly along highways. Any filter strip structures (i.e., level spreaders) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection but should be performed no less than 4 times per year.

SEDIMENT REMOVAL

Sediment removal is not normally required in filter strips since the vegetation normally grows through it and binds it to the soil. However, sediment may accumulate along the upstream boundary of the strip preventing uniform overland flow. Excess sediment should be removed by hand or with flat-bottom shovels. Depending on the type of pollutants accumulated, some sediment may be considered hazardous waste or toxic material and are therefore subject to restrictions for disposal.

GRASS RESEEDING AND MULCHING

A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted form the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replaced and restored to meet specifications. Corrective maintenance, such as weeding, or replanting should be done more frequently in the first two to three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.

DESIGN NOTE

This Inspection, Maintenance, Repair and Retrofit Plan was created and designed by the engineer of these BMPs. Maintenance should be followed in accordance with this plan to keep the BMPs operating properly.

Clay E Gann, P.E.

CLAY E. GANN, P.E.

08/19/2024

DATE

MAINTENANCE CONTACT – RESPONSIBLE PARTY

The maintenance will be handled by the Williamson County Maintenance Office. The Maintenance Supervisor may be contacted for questions or concerns after the project has been completed. The contact information is listed below.

Adam Boatright

ADAM BOATRIGHT, P.E.
County Engineer
3151 S.E. Inner Loop, Suite B
Georgetown, TX 78626
512-943-3330

08/19/2024

DATE

WILLIAMSON COUNTY ROAD & BRIDGE
ANNUAL BMP OPERATION & MAINTENANCE INSPECTION FOR

VEGETATED FILTER STRIPS

This checklist and inspection form describes inspection activities that should be conducted annually. Contact the Engineering Director for more information.

Project Name:		
Project Location:		
Inspector Name:		E-mail address:
Inspection Date/Time:		Phone:

Inspection Items	*Condition (Circle One)	Comments/Corrective Action
***Note: Condition should be marked as Satisfactory (S) or Unsatisfactory (U). An explanation of corrective actions must be presented for all items marked as Unsatisfactory. The completion date of any corrective actions taken must also be documented.**		
Inspect the vegetated filter strip area. The location of inspection areas/elements should be noted.		
Is the flow distributed evenly? **Yes = S**	S or U	
Are invasive species of plants present within the strip? **Yes = U**	S or U	
Does the vegetation appear to be healthy and adequately covering the strip? **Yes = S**	S or U	
Are there signs of soil erosion? **Yes = U**	S or U	
Are there signs of sediment build-up in the filter strip? **Yes = U**	S or U	
Is there any trash or debris present? **Yes= U**	S or U	
Are there signs of rodents causing damage to the strip? **Yes = U**	S or U	
Are there signs of insects (ants, wasps, etc.)? **Yes = U**	S or U	
Is the grass more than 10” tall? **Yes = U**	S or U	
Other (describe)?		

ATTACHMENT I – PILOT-SCALE FIELD TESTING PLAN

All BMPs are recognized by the Executive Director of TCEQ so no plan for pilot-scale field testing is needed. This plan does not apply.

ATTACHMENT J – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

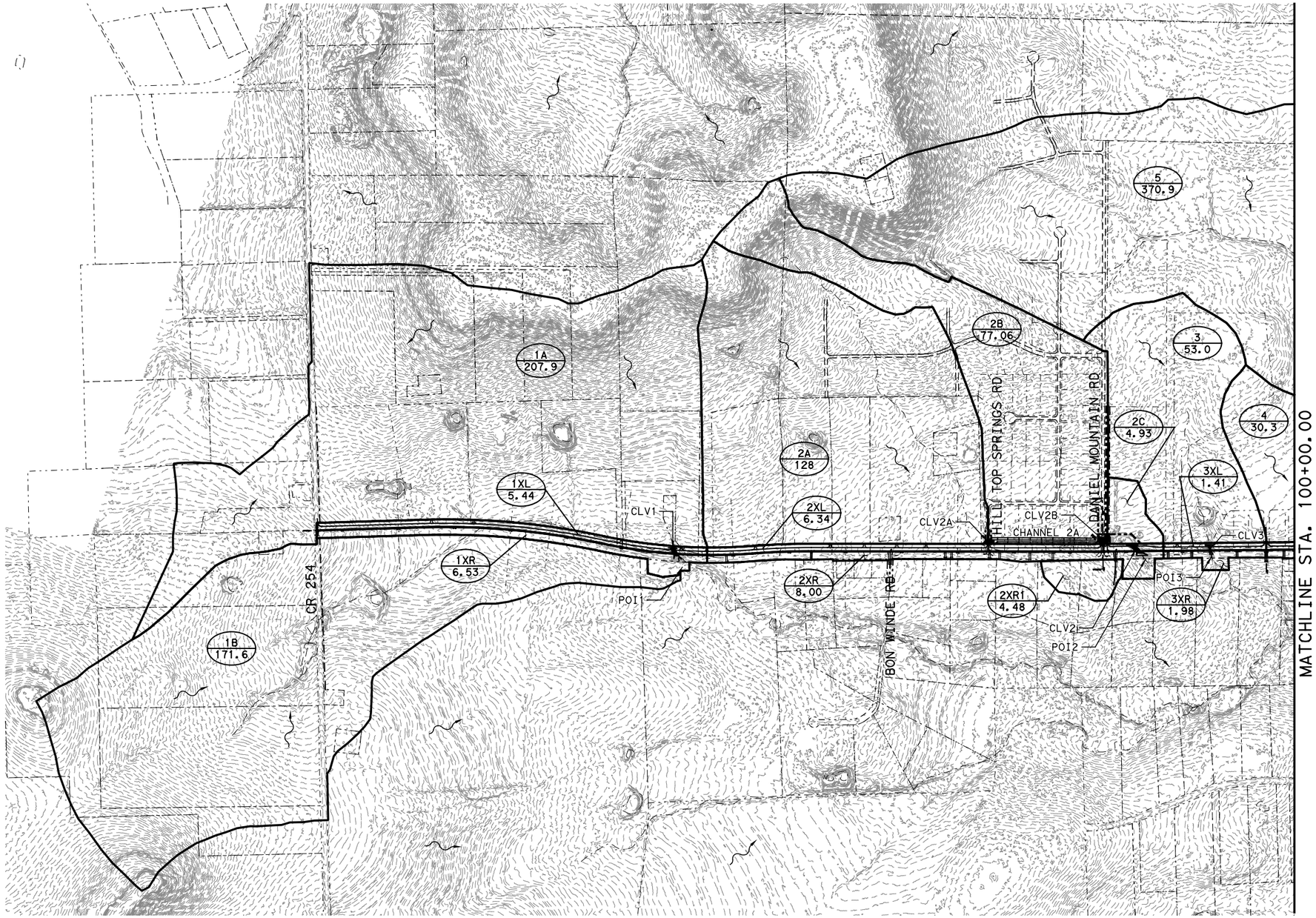
Rock filter dams are being proposed at the cross-culvert outlets to filter water that leaves the site. Vegetative filters strips are being proposed to prevent sediment from exiting the site and entering the surface streams.

All runoff from the site including offsite stormwater flows in a northeasterly to southwesterly fashion and ultimately drains to North Fork San Gabriel River. Runoff from the offsite areas and the roadway drains into roadside ditches which then conveys the flow to this stream. To minimize stream contamination, vegetated filter strips will be used along the roadway embankment and rock berms will be incorporated into the ditches and at outfalls from the ROW to minimize contamination. In addition, good housekeeping measures such as those listed in the Temporary Stormwater Section, Attachment I will be followed to minimize the potential for contamination.

ATTACHMENT K – VOLUME & CHARACTER OF STORMWATER

The character of the stormwater generated by this project is typical for road and right-of-way areas. During the construction phase, normal airborne pollutants and typical oils and greases from the paved areas and construction equipment can be expected.

Please refer to the Drainage calculations, in Attachment G of the Temporary Storm water Section of this Contribution Zone Plan for the volume of expected runoff and associated coefficients for this project.



0 500 1000

SCALE: 1" = 1000'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. DRAINAGE AREAS SHOWN ON THIS MAP APPLY TO THE HYDROLOGIC IMPACT ANALYSIS ONLY. REFER TO THE OFFSITE DRAINAGE AREA MAP FOR CROSS CULVERT DESIGN AND INTERNAL DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY CULVERT DESIGN.
2. CONTOURS ARE SHOWN AT 1' INTERVALS.
3. REFER TO THE IMPACT ANALYSIS SUMMARY SHEETS FOR ADDITIONAL INFO.

HYDROLOGIC COMPARISON TABLE

HYDROLOGIC ELEMENT	PEAK DISCHARGE																VOLUME			NOTES
	50% AEP		DIFF Q		10% AEP		DIFF Q		4% AEP		DIFF Q		1% AEP		DIFF Q		1% AEP		DIFF V	
	EXIST (CFS)	PROP (CFS)	PROP-EXIST (CFS)	PROP-EXIST (%)	EXIST (CFS)	PROP (CFS)	PROP-EXIST (CFS)	PROP-EXIST (%)	EXIST (CFS)	PROP (CFS)	PROP-EXIST (CFS)	PROP-EXIST (%)	EXIST (CFS)	PROP (CFS)	PROP-EXIST (CFS)	PROP-EXIST (%)	EXIST (AC-FT)	PROP (AC-FT)	PROP-EXIST (AC-FT)	
POI 1	297.0	297.7	0.7	0.24%	773.1	774.0	0.9	0.12%	1128.6	1129.6	1.0	0.09%	1772.2	1773.1	0.9	0.05%	216.5	216.7	0.24	
POI 2	178.7	180.9	2.2	1.23%	461.7	464.2	2.5	0.54%	673.0	675.7	2.7	0.40%	1054.0	1056.4	2.4	0.23%	126.9	127.5	0.53	
POI 3	40.7	40.8	0.1	0.25%	106.3	106.3	0.0	0.00%	155.6	155.6	0.0	0.00%	245.1	245.2	0.1	0.04%	31.0	31.0	0.03	
POI 4	38.3	38.8	0.5	1.31%	90.8	91.4	0.6	0.66%	129.5	130.1	0.6	0.46%	198.6	199.1	0.5	0.25%	19.6	19.8	0.14	
POI 5	268.5	269.1	0.6	0.22%	707.5	708.2	0.7	0.10%	1036.3	1036.9	0.6	0.06%	1632.3	1632.8	0.5	0.03%	209.0	209.5	0.46	
POI 6	50.4	51.1	0.7	1.39%	127.4	128.1	0.7	0.55%	184.3	184.9	0.6	0.33%	286.8	287.5	0.7	0.24%	30.8	31.0	0.25	
POI 7	44.3	44.1	-0.2	-0.45%	106.9	104.8	-2.1	-1.96%	152.6	149.1	-3.5	-2.29%	234.4	227.9	-6.5	-2.77%	21.3	21.5	0.25	
POI 8	17.3	19.8	2.5	14.45%	44.2	47.3	3.1	7.01%	64.2	67.4	3.2	4.98%	100.0	103.2	3.2	3.20%	7.4	7.7	0.28	

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
IMPACT ANALYSIS
DRAINAGE AREA MAP

BEGIN PROJECT TO STA 100+00

$SN#OF#$

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	SN

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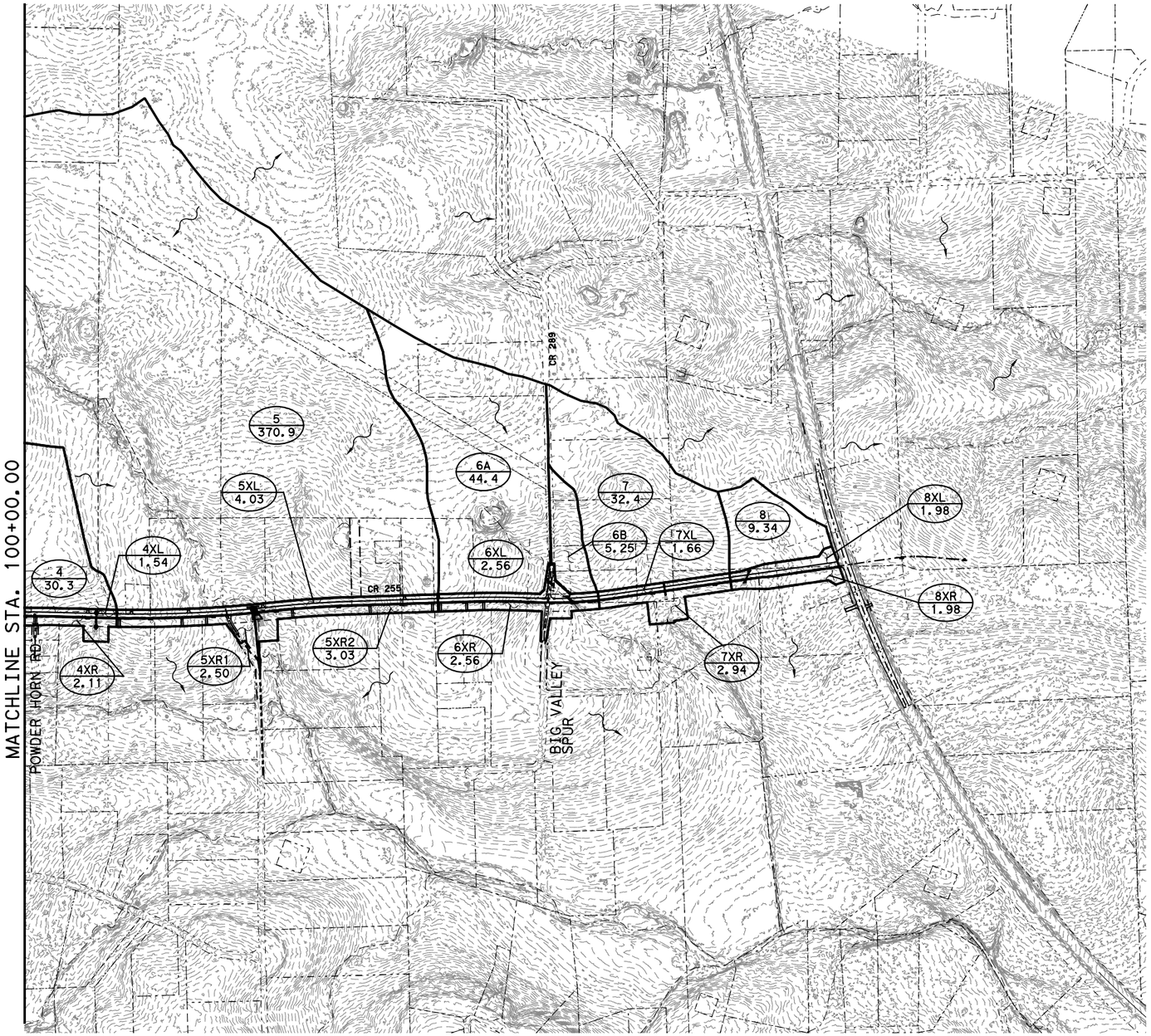

0 500 1000

SCALE: 1" = 1000'

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

NOTES:

1. DRAINAGE AREAS SHOWN ON THIS MAP APPLY TO THE HYDROLOGIC IMPACT ANALYSIS ONLY. REFER TO THE OFFSITE DRAINAGE AREA MAP FOR CROSS CULVERT DESIGN AND INTERNAL DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY CULVERT DESIGN.
2. CONTOURS ARE SHOWN AT 1' INTERVALS.
3. REFER TO THE IMPACT ANALYSIS SUMMARY SHEETS FOR ADDITIONAL INFO.
4. THE EXISTING CONDITION DRAINAGE AREA MAP IS SIMILAR TO THE PROPOSED CONDITION EXCEPT FOR AREAS 7 & 8. IN THE EXISTNG CONDITION MODEL, DRAINAGE AREA 7 INCLUDES 7XL & 7XR AND DRAINAGE AREA 8 INCLUDES 8XL & 8XR.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
IMPACT ANALYSIS
DRAINAGE AREA MAP
STA 100+00 TO END PROJECT

$SN#OF#$

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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PRE-PROJECT RUNOFF SUMMARY FOR DRAINAGE AREAS LARGER THAN 200 ACRES USING NRCS TR-55 METHOD

ID	DRAINAGE AREA		CN	IC	(Ia)	T	Tlag	STORM FREQUENCY 50% (2-YR) (D=3.96")		10% (10-YR) (D=6.37")		4% (25-YR) (D=8.04")		1% (100-YR) (D=11.2")		COMMENTS
	AREA							Q	V	Q	V	Q	V	Q	V	
	(AC)	(MI		(%)	(IN)	(MIN)	(MIN)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	
1A	207.87	0.3248	65	0.51	1.08	31	18.6	163.3	17.56	427.6	45.53	624.6	68.06	981.6	114.46	
1XL	5.44	0.0085	65	15.48	1.08	17	10.2	8	0.66	17.4	1.45	24.3	2.06	36.4	3.31	
CLV 1	213.31	0.3333	65		1.08			168.3	18.22	439	46.98	641.2	70.12	1005.9	117.77	
1B	171.65	0.2682	65	0.99	1.08	36	21.6	125.6	14.68	327	37.82	477.7	56.44	750.5	94.77	
1XR	6.53	0.0102	65	13.03	1.08	17	10.2	9.2	0.75	20.4	1.69	28.6	2.42	43.2	3.91	
POI 1	391.49	0.6117	65		1.08			297	33.66	773.1	86.49	1128.6	128.98	1772.2	216.45	
2A	128.00	0.2000	65	0.84	1.08	31	18.6	101.4	10.92	264.2	28.17	385.6	42.05	605.3	70.64	
CLV 2A	128.00	0.2000	65		1.08			101.4	10.92	264.2	28.17	385.6	42.05	605.3	70.64	
CHANNEL 2A	128.00	0.2000	65		1.08			101.4	10.91	264.2	28.16	385.6	42.04	605.3	70.62	
2B	77.06	0.1204	65	0.31	1.08	33	19.8	58.2	6.47	152.9	16.82	223.7	25.17	351.8	42.36	
CLV 2B	205.06	0.3204	65		1.08			159.6	17.38	417	44.98	609.3	67.2	956.6	112.98	
CHANNEL 2B	205.06	0.3204	65		1.08			159.6	17.38	417	44.98	609.3	67.2	956.6	112.98	
2XL	6.34	0.0099	65	14.67	1.08	22	13.2	8.2	0.76	17.9	1.67	25	2.38	37.6	3.84	
2C	4.93	0.0077	65	4.66	1.08	14	8.4	6.3	0.47	15.4	1.15	22.1	1.69	34.2	2.8	
CLV 2	216.32	0.3380	65		1.08			168.9	18.6	438.8	47.8	640.2	71.28	1004.5	119.61	
2XR	8.00	0.0125	65	11.71	1.08	22	13.2	9.7	0.9	21.9	2.03	30.9	2.93	46.9	4.75	
5	370.94	0.5796	65	0	1.08	36	21.6	264.5	30.83	698.9	80.59	1024.6	120.7	1614.7	203.4	
CLV 5	370.94	0.5796	65		1.08			264.5	30.83	698.9	80.59	1024.6	120.7	1614.7	203.4	
5XL	4.03	0.0063	65	13.45	1.08	5	3.0	8.6	0.47	18.7	1.05	26.1	1.5	39.4	2.43	
5XR2	3.07	0.0048	65	5.74	1.08	5	3.0	5.6	0.3	13.2	0.73	18.9	1.07	29.1	1.76	
5XR1	2.50	0.0039	65	5.74	1.08	5	3.0	4.5	0.24	10.8	0.59	15.4	0.87	23.6	1.43	
POI 5	380.54	0.5946	65		1.08			268.5	31.85	707.5	82.95	1036.3	124.14	1632.3	209.01	
2XR1	4.48	0.0070	65	6.74	1.08	8	4.8	7.3	0.45	17.5	1.07	24.9	1.57	38.2	2.58	
POI 2	228.80	0.3575	65		1.08			178.7	19.95	461.7	50.9	673	75.77	1054	126.94	
3	52.99	0.0828	64	2.1	1.13	33	19.8	39.1	4.44	103.1	11.46	151.2	17.14	238.8	28.88	
3XL	1.41	0.0022	65	18.87	1.08	3	1.8	3.6	0.18	7.4	0.39	10.2	0.55	15.1	0.88	
CLV 3	54.40	0.0850	65		1.08			39.8	4.63	104.4	11.86	153	17.7	241.4	29.75	
3XR	1.98	0.0031	65	18.87	1.08	3	1.8	5	0.26	10.4	0.55	14.3	0.78	21.2	1.24	
POI 3	56.38	0.0881	65		1.08			40.7	4.88	106.3	12.41	155.6	18.47	245.1	30.99	
4	30.27	0.0473	65	7.14	1.08	20	12.0	34.9	3.06	83.1	7.27	118.6	10.62	182	17.46	
4XL	1.54	0.0024	65	14.09	1.08	7	4.2	3	0.18	6.6	0.4	9.3	0.58	13.9	0.93	
CLV 4	31.81	0.0497	65		1.08			36.4	3.24	86.4	7.67	123.1	11.19	188.9	18.39	
4XR	2.11	0.0033	65	10.19	1.08	7	4.2	3.9	0.23	8.8	0.53	12.4	0.76	18.9	1.24	
7	36.93	0.0577	66	4.11	1.03	18	10.8	44.3	3.62	106.9	8.8	152.6	12.91	234.4	21.29	
6A	44.35	0.0693	65	1.37	1.08	24	14.4	40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
CLV 6A	44.35	0.0693	65		1.08			40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
CHANNEL 6A	44.35	0.0693	65		1.08			40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
6B	5.25	0.0082	65	10.48	1.08	17	10.2	7	0.57	16	1.32	22.6	1.9	34.4	3.09	
6XL	2.56	0.0040	65	12.66	1.08	5	3.0	5.3	0.29	11.8	0.66	16.5	0.95	24.9	1.53	
6XR	2.56	0.0040	65	12.65	1.08	5	3.0	5.3	0.29	11.8	0.66	16.5	0.95	24.9	1.53	
POI 6	54.72	0.0855	65		1.08			50.4	5.01	127.4	12.48	184.3	18.47	286.8	30.75	
POI 7	36.93	0.0577	65		1.08			44.3	3.62	106.9	8.8	152.6	12.91	234.4	21.29	
POI 4	33.92	0.0530	65		1.08			38.3	3.47	90.8	8.2	129.5	11.96	198.6	19.63	
8	13.31	0.0208	65	1.57	1.08	11	6.6	17.3	1.16	44.2	2.97	64.2	4.42	100	7.4	
POI 8	13.31	0.0208	65		1.08			17.3	1.16	44.2	2.97	64.2	4.42	100	7.4	

NOTES:
1. CN VALUES ARE BASED ON ANTECEDENT MOISTURE CONDITION II
2. RAINFALL DEPTHS ARE BASED ON ATLAS 14 PRECIPITATION DATA
3. "XL" AND "XR" IDENTIFICATIONS INDICATE ONSITE AREAS ON LEFT OR RIGHT SIDE OF ALIGNMENT
4. Q = PEAK DISCHARGE
5. D = ATLAS 14 RAINFALL DEPTH
6. V = RAINFALL VOLUME
7. ALL Q AND VOLUME COMPUTATIONS WERE COMPUTED USING HEC-HMS VERSION 4.10.
8. Ia = INITIAL ABSTRACTION
9. Tc = TIME OF CONCENTRATION
10. Tlag = LAG TIME
11. CN = WEIGHTED CURVE NUMBER
12. IC = IMPERVIOUS COVER

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
IMPACT ANALYSIS SUMMARY
EXISTING CONDITION

$SN#OF#$

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	SN

USER: $USER$
DATE: 7/10/2024 3:43:10 PM
SCRIPT: $SCRIPT$
FILE: c:\clg\45\ygann\dms\10862\CR255_IMPACT_XSUMMARY.dgn

POST-PROJECT RUNOFF SUMMARY FOR DRAINAGE AREAS LARGER THAN 200 ACRES USING NRCS TR-55 METHOD																
DRAINAGE AREA								STORM FREQUENCY								COMMENTS
ID	AREA		CN	IC	(Ia)	T	Tlag	50% (2-YR) (D=3.96")		10% (10-YR) (D=6.37")		4% (25-YR) (D=8.04")		1% (100-YR) (D=11.2")		
								Q	V	Q	V	Q	V	Q	V	
	(AC)	(MI		(%)	(IN)	(MIN)	(MIN)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	(CFS)	(AC-FT)	
1A	207.87	0.3248	65	0.51	1.08	31	18.6	163.3	17.56	427.6	45.53	624.6	68.06	981.6	114.46	
1XL	5.44	0.0085	65	42.67	1.08	17	10.2	12.3	1.03	21.9	1.91	28.6	2.57	40.4	3.88	
CLV 1	213.31	0.3333	65		1.08			170.3	18.58	441.3	47.44	643.7	70.63	1008.1	118.34	
1B	171.65	0.2682	65	0.99	1.08	36	21.6	125.6	14.68	327	37.82	477.7	56.44	750.5	94.77	
1XR	6.53	0.0102	65	0	1.08	17	10.2	6.8	0.54	17.9	1.42	26.1	2.13	40.9	3.59	
POI 1	391.49	0.6117	65		1.08			297.7	33.81	774	86.69	1129.6	129.2	1773.1	216.69	
2A	128.00	0.2000	65	0.84	1.08	31	18.6	101.4	10.92	264.2	28.17	385.6	42.05	605.3	70.64	
CLV 2A	128.00	0.2000	65		1.08			101.4	10.92	264.2	28.17	385.6	42.05	605.3	70.64	
CHANNEL 2A	128.00	0.2000	65		1.08			101.4	10.91	264.2	28.16	385.6	42.04	605.3	70.62	
2B	77.06	0.1204	65	0.31	1.08	33	19.8	58.2	6.47	152.9	16.82	223.7	25.17	351.8	42.36	
CLV 2B	205.06	0.3204	65		1.08			159.6	17.38	417	44.98	609.3	67.2	956.6	112.98	
CHANNEL 2B	205.06	0.3204	65		1.08			159.6	17.38	417	44.98	609.3	67.2	956.6	112.98	
2XL	6.34	0.0099	65	46.2	1.08	22	13.2	13.3	1.25	23.3	2.29	30.3	3.07	42.5	4.6	
2C	4.93	0.0077	65	4.66	1.08	14	8.4	6.3	0.47	15.4	1.15	22.1	1.69	34.2	2.8	
CLV 2	216.32	0.3380	65		1.08			172.1	19.09	442.5	48.42	643.8	71.96	1008	120.38	
2XR	8.00	0.0125	65	3.78	1.08	22	13.2	8.1	0.74	20.3	1.84	29.2	2.71	45.4	4.51	
5	370.94	0.5796	65	0	1.08	36	21.6	264.5	30.83	698.9	80.59	1024.6	120.7	1614.7	203.4	
CLV 5	370.94	0.5796	65		1.08			264.5	30.83	698.9	80.59	1024.6	120.7	1614.7	203.4	
5XL	4.03	0.0063	65	43.9	1.08	5	3.0	13.6	0.77	24.1	1.43	31.4	1.93	44.2	2.9	
5XR2	3.07	0.0048	65	2.29	1.08	5	3.0	5.1	0.27	12.8	0.69	18.5	1.03	28.7	1.72	
5XR1	2.50	0.0039	65	8.82	1.08	5	3.0	4.8	0.26	11.1	0.61	15.7	0.89	23.9	1.46	
POI 5	380.54	0.5946	65		1.08			269.1	32.14	708.2	83.33	1036.9	124.55	1632.8	209.47	
2XR1	4.48	0.0070	65	6.74	1.08	8	4.8	7.3	0.45	17.5	1.07	24.9	1.57	38.2	2.58	
POI 2	228.80	0.3575	65		1.08			180.9	20.28	464.2	51.33	675.7	76.24	1056.4	127.47	
3	52.99	0.0828	64	2.1	1.13	33	19.8	39.1	4.44	103.1	11.46	151.2	17.14	238.8	28.88	
3XL	1.41	0.0022	65	45.09	1.08	3	1.8	5.2	0.27	9.1	0.51	11.8	0.68	16.6	1.02	
CLV 3	54.40	0.0850	65		1.08			39.9	4.72	104.6	11.97	153.2	17.82	241.6	29.9	
3XR	1.98	0.0031	65	4.51	1.08	3	1.8	3.8	0.19	9.1	0.46	13	0.68	20.1	1.13	
POI 3	56.38	0.0881	65		1.08			40.8	4.91	106.3	12.43	155.6	18.5	245.2	31.02	
4	30.27	0.0473	65	7.14	1.08	20	12.0	34.9	3.06	83.1	7.27	118.6	10.62	182	17.46	
4XL	1.54	0.0024	65	44.85	1.08	7	4.2	4.9	0.3	8.6	0.55	11.2	0.74	15.7	1.11	
CLV 4	31.81	0.0497	65		1.08			37	3.36	87.1	7.82	123.8	11.35	189.6	18.57	
4XR	2.11	0.0033	65	4.53	1.08	7	4.2	3.4	0.2	8.3	0.49	11.9	0.72	18.4	1.2	
7	32.38	0.0506	66	4.69	1.03	18	10.8	39.3	3.22	94.3	7.77	134.3	11.38	206	18.74	
7XL	1.66	0.0026	65	41.17	1.08	6	3.6	5.3	0.31	9.4	0.58	12.3	0.78	17.4	1.18	
CLV 7	34.05	0.0532	65		1.08			41.6	3.53	98.5	8.35	140.2	12.16	214.5	19.92	
7XR	2.94	0.0046	65	0	1.08	6	3.6	4.4	0.25	11.6	0.64	16.8	0.96	26.3	1.62	
6A	44.35	0.0693	65	1.37	1.08	24	14.4	40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
CLV 6A	44.35	0.0693	65		1.08			40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
CHANNEL 6A	44.35	0.0693	65		1.08			40.7	3.85	105	9.85	152.8	14.67	238.9	24.59	
6B	5.25	0.0082	65	10.48	1.08	17	10.2	7	0.57	16	1.32	22.6	1.9	34.4	3.09	
6XL	2.56	0.0040	65	41.28	1.08	5	3.0	8.4	0.47	15	0.89	19.6	1.2	27.8	1.81	
CLV 6B	52.16	0.0815	65		1.08			49.2	4.89	124	12.05	179.4	17.77	278.8	29.5	
6XR	2.56	0.0040	65	9.4	1.08	5	3.0	5	0.27	11.4	0.63	16.2	0.92	24.6	1.5	
POI 6	54.72	0.0855	65		1.08			51.1	5.17	128.1	12.69	184.9	18.69	287.5	31	
POI 7	36.99	0.0578	65		1.08			44.1	3.78	104.8	8.99	149.1	13.12	227.9	21.54	
POI 4	33.92	0.0530	65		1.08			38.8	3.56	91.4	8.31	130.1	12.08	199.1	19.77	
8	9.34	0.0146	65	2.23	1.08	11	6.6	12.3	0.83	31.3	2.1	45.3	3.12	70.4	5.22	
8XL	2.05	0.0032	65	35.73	1.08	6	3.6	6	0.35	11.1	0.68	14.7	0.92	21	1.41	
CLV 8	11.39	0.0178	65		1.08			17	1.18	40.4	2.78	57.5	4.04	88	6.63	
8XR	1.92	0.0030	65	0	1.08	6	3.6	2.9	0.16	7.6	0.42	11	0.63	17.1	1.06	
POI 8	13.31	0.0208	65		1.08			19.8	1.34	47.3	3.2	67.4	4.67	103.2	7.68	

NOTES:

1. CN VALUES ARE BASED ON ANTECEDENT MOISTURE CONDITION II
2. RAINFALL DEPTHS ARE BASED ON ATLAS 14 PRECIPITATION DATA
3. "XL" AND "XR" IDENTIFICATIONS INDICATE ONSITE AREAS ON LEFT OR RIGHT SIDE OF ALIGNMENT
4. Q = PEAK DISCHARGE
5. D = RAINFALL DEPTH
6. V = RAINFALL VOLUME
7. ALL Q AND VOLUME COMPUTATIONS WERE COMPUTED USING HEC-HMS VERSION 4.10.
8. Ia = INITIAL ABSTRACTION
9. Tc = TIME OF CONCENTRATION
10. Tlag = LAG TIME
11. CN = WEIGHTED CURVE NUMBER
12. IC = IMPERVIOUS COVER

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER

7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

IMPACT ANALYSIS SUMMARY

PROPOSED INTERIM CONDITION

$SN#OF#$

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	SN

USER: $USER$
DATE: 7/10/2024 3:44:03 PM
SCRIPT: $SCRIPT$
FILE: c:\dgn\dbxy.gann\dms01862\CR255_IMPACT_PSUMMARY.dgn

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: Clay E. Gann, P.E.

Date: 08/19/2024

Signature of Customer/Agent:

Clay E Gann, P.E.

Regulated Entity Name: County Road 255 Extension to Ronald Reagan Blvd

Project Information

Potential Sources of Contamination

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

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

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

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

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

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

   ☐ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

   ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: South Fork San Gabriel River

Temporary Best Management Practices (TBMPs)

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

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

- [X] 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.
- [X] 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.
- [X] A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
- [X] 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. [X] 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.
   - [X] There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. [X] **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. [X] **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.
    - [X] 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. [X] 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. [X] Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

20. [X] All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. [X] 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. [X] 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

Since all fuels and hazardous substances will be provided by an off-site facility, no on-site containment procedures are provided for in this CZP.

If a spill should occur, the person responsible for the spill shall contact the following agency.

State of Texas Spill-Reporting Hotline (SERC)
1-800-832-8224

Soils contaminated by spills that occur on-site will be removed and disposed at an approved disposal site.

For additional information, instructions and emergency phone numbers, a copy of TCEQs Spill Response Poster and TxDOT's Emergency Spill Response is attached directly behind this page.

Using a smartphone or tablet, scan the QR code below for TCEQ's Spill Response website.

Report Spills or Discharges in Texas to 1-800-832-8224

The Who, What, and Where of Spill Reporting

A responsible party must report a spill of a reportable quantity (RQ) as soon as possible but not later than **24 hours after the discovery of the spill or discharge** to the Texas Spill Reporting Hotline at 1-800-832-8224 or the appropriate regional office of the TCEQ during normal office hours.

The RQ depends on the substance released and where it was released. To determine whether you must report and under what rule, use the Reportable Quantities Table. <www.tceq.texas.gov/response/spills/spill_rq.html>

Depending on location and type of spill, reporting could be to another state agency such as the Texas General Land Office or the Railroad Commission of Texas.

Summary of What to Do After a Spill

Answer these questions:

- What type of material spilled?
- What is the amount of material spilled?
  - Oil, petroleum product, and used oil will be in gallons.
  - Hazardous substances and industrial solid waste will be in pounds.
- Was the spill onto land or into waters of the state?
- Is it a reportable quantity?
  - If so, what is the appropriate agency to report the spill to?

Mitigate, contain, and remediate all spills and discharges.

What to Include in the Initial Report

Contact information:

- The name, address and telephone number of the person making the telephone report.
- If different from above, the names, addresses, and telephone numbers of the responsible person and the contact person at the location of the discharge or spill.

What and where:

- The date, time, and location of the spill or discharge.
- A specific description or identification of the oil, petroleum product, hazardous substances or other substances discharged or spilled.
- An estimate of the quantity discharged or spilled and the duration of the incident.
- The source of the discharge or spill.
- The name of the surface water or a description of the waters in the state affected or threatened by it.
- A description of the extent of actual or potential water pollution or harmful impacts to the environment and an identification of any environmentally sensitive areas or natural resources at risk.
- Any known or anticipated health risks.
- A description of any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill.

Response and actions:

- The identity of any governmental representatives, including local authorities or third parties, responding to it.
- Any other information that may be significant to the response action.

For additional information on initial notification requirements, refer to Title 30, Texas Administrative Code Section 327.3.

Examples of Reportable Quantities

Kind of Spill	Where Discharged	Reportable Quantity	Agency
Petroleum product, used oil (e.g. hydraulic fluid)	Onto land, or onto land from a non-exempt PST facility	25 gallons	TCEQ
Petroleum product, used oil	*Onto land, from an exempt	210 gallons	TCEQ

Section 3 — Emergency Spill Response

Background

Hazardous material spills/releases may occur on TxDOT property and the right of way. At the spill location, TxDOT's first concern is human safety. TxDOT employees should take an active role to protect themselves and the traveling public.

Policy

TxDOT's role in emergency spill response is to provide support to the lead agency—Department of Public Safety (DPS), Texas Commission on Environmental Quality (TCEQ), or local fire marshall—in the containment and cleanup. All TxDOT personnel who may encounter a hazardous material spill or release require Hazardous Materials Awareness Training. For more information about TxDOT's hazardous material cleanup policy, including notification requirements, see the *Occupational Safety Manual*, Chapter 5, Section 6.

Spill Response

Most spills are a result of a traffic accident; usually, TxDOT is called to the scene by law enforcement. Safety of TxDOT personnel and the motoring public is priority. Department personnel are specifically prohibited from handling, cleaning up or otherwise coming in contact with toxic or hazardous materials at accident scenes or abandonment sites on the department's right of way. Vehicle fluid cleanup of less than 25 gallons is the only exception to handling or cleaning up hazardous materials at accident scenes or abandonment sites.

The table below outlines the responsibilities of each agency involved in an emergency spill response.

Emergency Spill Response

Agency	Responsibilities
TxDOT staff*	◆ restricts public access ◆ provides traffic control at the site until relieved by DPS or other on-site coordinator ◆ reports all pertinent information to supervisor ◆ supervisor reports information to district hazardous material coordinator ◆ district engineer/hazardous materials coordinator notifies appropriate governmental agencies such as TCEQ, DPS and local fire department
DPS	◆ performs the on-site coordination of transportation emergencies for all unincorporated areas
Fire marshall	◆ performs on-site coordination of transportation emergencies for all incorporated areas

Emergency Spill Response

Agency	Responsibilities
TCEQ	◆ acts as lead state agency for spill response

*Note: TxDOT personnel should not handle, clean up or otherwise come in contact with toxic or hazardous materials at accident sites.

Spill Response Preparation

TxDOT supervisors are responsible for:

- ensuring state vehicles have a copy of the *USDOT Emergency Response Guidebook*
- maintaining updated emergency notification list, including telephone numbers for DPS, local law enforcement, fire department, district hazardous materials coordinator, and the TCEQ
- instructing employees to remain clear of accident areas contaminated with known or suspected toxic or hazardous materials.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN
FIELD INSPECTION AND MAINTENANCE REPORT

Texas Department of Transportation

Form 2118
(Rev. 4/20)
Page of

Instructions

Project Information

Inspection Cycle (select only one):

- ○ At least once every 7 calendar days.
- ○ At least once every 14 calendar days and within 24 hours after 0.5 inches or more of rainfall.
- ○ *Other _____

CSJ: _____

Project: _____

Highway: _____

County: _____

Inspection Date: _____

TCEQ Authorization No.: _____

Date of Last Rainfall: _____

Amount of Last Rainfall: _____ (inches)

***For "other" options, the Engineer must verify compliance with Part III.F.7(c) of the TPDES Construction General Permit (CGP) and approve revisions to the SWP3.**

Inspected Best Management Practice (BMP)/Areas

All of these BMPs/areas must be inspected when present on the right-of-way

- ☐ Disturbed areas
- ☐ Discharge locations
- ☐ Erosion control BMPs
- ☐ Sediment control BMPs
- ☐ Concrete truck washout areas
- ☐ Areas where litter/debris/trash collect
- ☐ Areas that generate dust
- ☐ Postings
- ☐ Material stockpiles
- ☐ Areas where vehicles enter/leave site
- ☐ Portable sanitary facilities
- ☐ Construction material storage areas
- ☐ Parking/equipment storage areas
- ☐ Chemical/fuel storage areas

Other _____

Corrective Actions, Maintenance, Upgrading or Additional Controls

Except the items listed below, all areas/BMPs indicated above have been inspected and do not require maintenance, upgrading or additional controls. If multiple highways or project locations are involved, identify the highway or project location of the BMPs/areas requiring maintenance or improvement. Document all changes to the SWP3.

Station(s) or Location	Left or Right of Centerline	Issue/BMP	Corrective Action	Priority*	Date of Corrective Action Completed	
						+ -
Other/Notes			Cause			
						+ -
Other/Notes			Cause			
						+ -
Other/Notes			Cause			
						+ -
Other/Notes			Cause			
						+ -
Other/Notes			Cause			

* **High** - must be addressed immediately; all other project work is stopped until issue is resolved.
Med - address as soon as practicable or as directed; other work can continue.
Low - address within 7 days or before the next rainfall event.

Add Additional Table to Last Page

Contact/Help

Erosion Control and Stabilization

When construction activities permanently cease, or temporarily cease and are not expected to resume for 14 or more days, on a disturbed portion of the site, erosion control and stabilization measures must be initiated immediately, unless excluded by Part III.F.2(b)(iii) of the CGP. Indicate the stabilization measures that have been initiated under these circumstances.

Station	Left or Right of Centerline	Stabilization Measure	Date Initiated	Other/Notes
to				
to				
to				
to				
to				

Compliance Certification

Check One and Complete Signature.

☐ The site is in potential non-compliance with the CGP and/or the SWP3. Potential non-compliance issues are described below. Immediately notify Engineer of potential non-compliance.

☐ With the corrective actions noted (if any), the site is in compliance with the CGP regulations and the SWP3.

TxDOT's Representative's Name (Print clearly):	Title:	Date:
TxDOT's Representative's Signature:		

The inspection report must be completed upon completion of inspection but no later than 24 hours, Part III.F.7(f) of the TPDES CGP.

Potential Non-Compliance Issues

Potential non-compliance issues may include the failure to address previously noted corrective actions, repeated failure of a control measure, off-site discharges of sediment, off-site discharges of other pollutants, or other potential non-compliance issues identified in the CGP. Notify the Engineer immediately of potential non-compliance issues.

Station	Left or Right of Centerline	Describe Potential Non-Compliance Issue. If discharge is present during inspection, inspect all discharge points from the site and document the visual quality of the discharge if it indicates pollutantsin stormwater (i.e. floating, settled, or suspended solids; unnatural color, foam, oil sheen, or other indicators of pollutants in stormwater). Part III.F.7(b)vi.
to		
to		
to		
to		
to		

Contractor Notification

Furnish a copy of this inspection report to the Contractor within one calendar day of the inspection. Corrective actions must be taken as soon as possible and before the next anticipated rain event, but in no case later than 7 calendar days after being able to access the site. If corrective actions are not made within this timeframe and become potential noncompliance issues, other work on the project may be suspended by the Engineer. Time charges will continue until the project is brought into compliance and documentation of corrective action is provided. This in no way releases the contractor of liability for noncompliance.

Contractor's Representative's Name (Print clearly):	Title:	Date:
Contractor's Representative's Signature:		

Inspection Certification

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

TxDOT's Certifying Representative's Name (Print clearly):	Title:	Date:
TxDOT's Certifying Representative's Signature:		

ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION

- Hydraulic fluid, gasoline, oils, diesel, acids, brake fluids and transmission fluids
- Asphalt material
- Drilling fluids
- Portable toilet system (sanitary waste)
- Trash from construction workers
- Paints, paint solvents, glues, concrete and other building materials
- Plant fertilizer and pesticides
- Inadequate maintenance of temporary water pollution abatement measures
- Stockpiles or spoils of materials
- Tracking of construction vehicles onto public roads

ATTACHMENT C – SEQUENCE OF MAJOR ACTIVITIES

The following sequence of activities is suggested. The actual sequence may vary based on variables such as contractor means and methods, weather, availability of right-of-way, etc. The entire right-of-way (68.48 acres) is assumed to be disturbed by the roadway construction.

1. Install all perimeter silt fence and rock filter dams and other erosion and sediment control devices as applicable. Other ESCP devices that are conflict with the various grading operations shall be installed once grading operations are complete.
2. Complete right-of-way preparation operations (clear & grub). Topsoil and spoil stockpiles will be placed at a location on the project site as directed by the contractor or at an off-site location. Silt fence will be installed to enclose all spoils and stockpiles.
3. Perform preliminary grading (excavation/fill) of the site including roadway sub-grade and ditch grading. Once preliminary grading is complete by stage, additional silt fence and rock filter dams will be installed in ditches.
4. Construct all drainage structures and outlet protection measures. Silt fence, sediment traps and other BMPs will be installed to capture fluids and debris.
5. Construct roadway pavement, driveways, guardrails, etc. A concrete truck washout station will be provided as needed.
6. Perform final grading of the site and installation of stone riprap.
7. Provide final soil stabilization including seeding, sodding, hydromulching and installation of soil retention blankets.
8. Complete all signing and striping operations.
9. Remove temporary ESCP devices.

ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

The temporary BMPs that will be used during and after construction are construction entrances/exits, silt fences, and rock filter dams. Construction entrances/exits prevent pollution of surface water and ground water by minimizing the mud and sediment transferred to paved roads by construction vehicle wheels, or by channelizing of runoff due to erosion from high vehicle activity. Only onsite storm water runoff will be treated by construction entrances/exits. While this measure treats flow, it is not meant to prevent the treated flow from reaching naturally occurring sensitive features. Silt fences prevent pollution of surface water and ground water by trapping sediment suspended in storm water runoff and thus preventing it from entering the surface water and sensitive features. Silt fences are to be used in areas of sheet flow only and will treat all intercepting flow from both onsite and offsite storm water runoff. While this measure treats flow, it is not meant to prevent the treated flow from reaching naturally occurring sensitive features. Rock filter dams prevent pollution of surface water and ground water by trapping sediment suspended in storm water runoff and thus preventing it from entering the surface water and sensitive features. Rock filter dams are to be used in the roadside ditches and at outfalls where channel flow occurs and will treat all intercepting flow from both onsite and offsite storm water runoff. While this measure treats flow, it is not meant to prevent the treated flow from reaching naturally occurring sensitive features.

The temporary BMPS will be implemented into the construction activity as follows:

1. Construction activities will commence with the installation of required silt fences, rock filter dams, and construction entrances/exits. **Silt fences, rock filter dams, and the construction entrances will be utilized as the control measures**.
2. The right-of-way will be cleared of vegetation. Fill and excavation spoils will be placed at a location on the project site as directed by the contractor or at an off-site location. A silt fence will enclose these spoils and any other loose granular material. **Silt fences, rock filter dams, and the construction entrances will be utilized as the control measures**.
3. Bridge-class and drainage structure construction will begin. **Silt fences, rock filter dams, and the construction entrances will be utilized as the control measures**.
4. Grading for the roadway will consist of cut and fill for vertical grades and super-elevation, shaping of the side slopes and roadside ditches, and compaction of fill and subgrade for the roadway. **Silt fences, rock filter dams, and the construction entrances will be utilized as the control measures.**
5. After grading and culvert construction, the roadway will be paved. **Silt fences, rock filter dams, and the construction entrances will be utilized as the control measures**.
6. Side slopes, roadside ditches, and any remaining disturbed right-of-way will be seeded, sodded, or hydro-mulched. **Silt fences, rock filter dams, soil retention blankets, and the construction entrances will be utilized as the control measures.**
7. Once the vegetation in the right-of-way has been established, temporary measures will be removed and disposed following site cleanup.

ATTACHMENT E – REQUEST TO TEMPORARILY SEAL A FEATURE

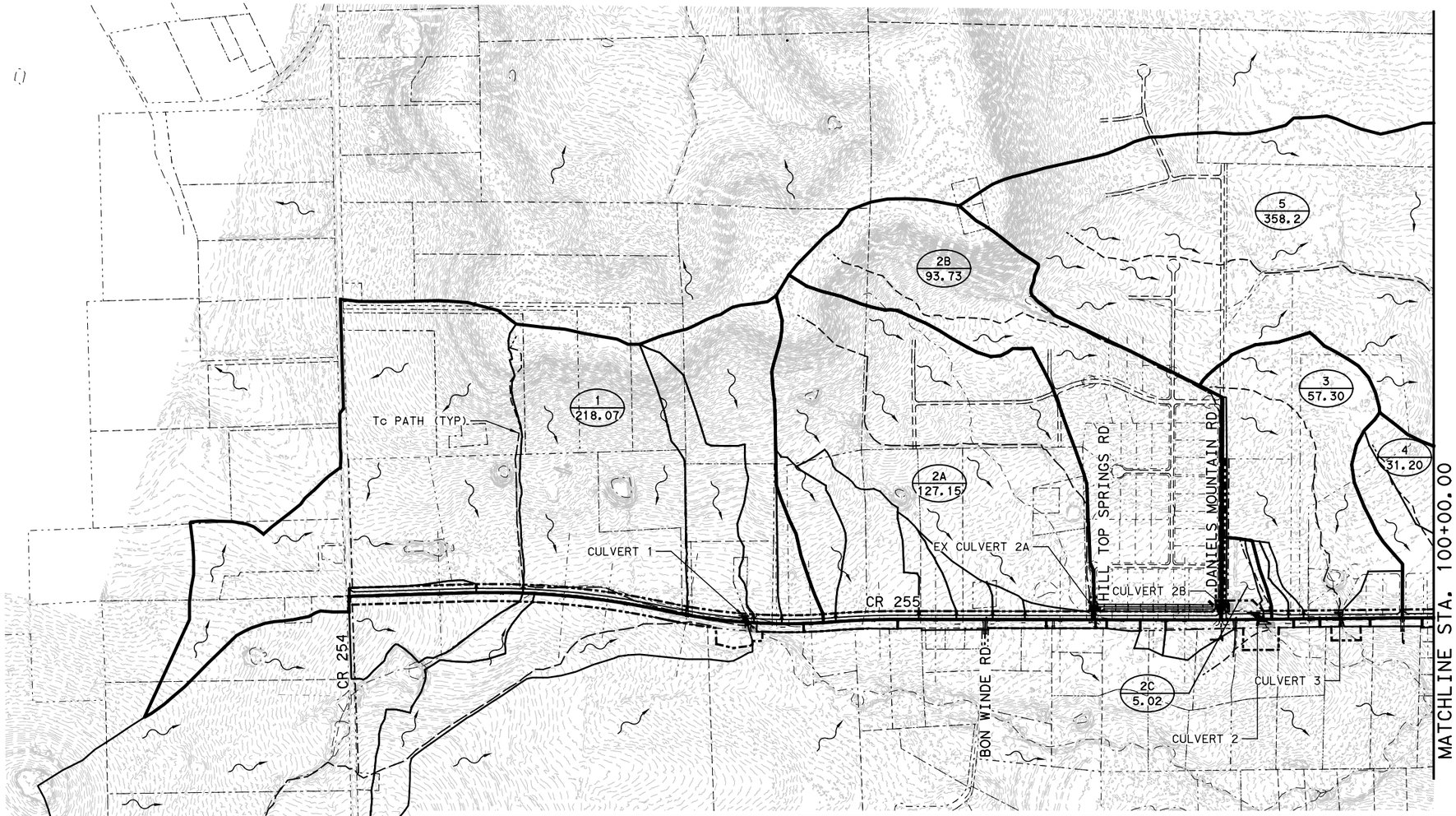
There is no request to temporarily seal a feature on this project.

ATTACHMENT F – STRUCTURAL PRACTICES

No structural practices will be utilized to divert flows away from exposed soils or to store flows. Existing parallel roadside ditches are part of the proposed project and will continue to divert off-site water around the proposed project. Silt fences and rock filter dams will help contain pollutants on the site. Temporary construction entrances/exits will also be used to limit the runoff discharge of sediments from exposed areas on the site.

ATTACHMENT G – DRAINAGE AREA MAP

A copy of the Drainage Area Maps from the proposed construction plans is located behind this sheet. Pre-development and post-development runoff calculations are presented in Attachment K – Volume and Character of Stormwater, Contributing Zone Plan Application Form (TCEQ-10257).



0 500 1000

SCALE: 1" = 1000'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. DRAINAGE AREAS LABELED ON THIS MAP APPLY TO CROSS CULVERT OUTFALLS ONLY. REFER TO THE DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY PIPE DESIGN AREAS. DUE TO THE SMALLER SCALE, SUB-AREA BOUNDARIES ARE SHOWN ON THIS MAP TO PROVIDE THE FULL LIMITS OF ALL INTERNAL DRAINAGE AREAS.
2. CONTOURS ARE SHOWN AT 1' INTERVALS & TERRAIN DATA WAS GATHERED FROM WILCO GIS WEBSITE AND TNRIS.
3. HEC HMS 4.11 WAS USED TO COMPUTE PEAK FLOWS FOR THE NRCS METHOD.
4. WHILE AREAS 2A, 2B, & 2C ARE SMALLER THAN 200 AC, THEY COMBINE FOR THE DESIGN OF CULVERT 2 WHICH EXCEEDS 200 AC. THE NRCS METHOD IS USED TO COMPUTE PEAK FLOWS FOR CULVERT 2.
5. RATIONAL METHOD FLOWS WERE COMPUTED USING TXDOT'S ATLAS 14 SPREADSHEET TOOL (EBDLKUP-2019-VC6.2.10) PARTIAL DURATION, SAN GABRIEL RIVER ZONE, WILCO.

NO.	REVISION	BY	DATE

RUNOFF SUMMARY FOR DRAINAGE AREAS LARGER THAN 200 ACRES USING NRCS TR-55 METHOD

DRAINAGE AREA NO.	AC	SQ.MI.	CN	% IMP	INITIAL ABSTRACT (Ia) (IN)	TIME OF CONC Tc (MIN)	LAG TIME T (MIN)	RAINFALL DEPTH P(25) (IN)	DISCHARGE 25 YEAR Q(25) (CFS)	RAINFALL DEPTH P(100) (IN)	DISCHARGE 100 YEAR Q(100) (CFS)	COMMENTS
CLV 1	218.07	0.3407	65	1.20	1.08	31	18.60	8.04	659	11.20	1030	
DA 2A	127.15	0.1987	65	1.27	1.08	31	18.60	8.04	384	11.20	603	
DA 2B	93.73	0.1465	65	0.93	1.08	33	19.80	8.04	274	11.20	429	
DA 2C	5.02	0.0078	65	8.00	1.08	14	8.40	8.04	23	11.20	35.1	
CLV 2	225.90	0.3530	ROUTED IN HEC-HMS					8.04	669	11.20	1049	Culvert 2 combines Areas 2A, 2B & 2C.
CLV 2B	220.88	0.3451	ROUTED IN HEC-HMS					8.04	656	11.20	1031	Culvert 2B combines Areas 2A & 2B.
CLV 5	358.20	0.5597	65	0.54	1.08	36	21.60	8.04	994	11.20	1560	

RUNOFF SUMMARY FOR DRAINAGE AREAS SMALLER THAN 200 ACRES USING THE RATIONAL METHOD

DRAINAGE AREA NO.	ACRES	SUBAREAS (AC) SUBAREA 1 AREA (AC)	C	LAND USE	REMAINING AREA AREA (AC)	C	WEIGHTED C VALUE	TOTAL CA	TOTAL Tc (MIN)	INTENSITY I(25) (IN/HR)	DISCHARGE Q(25) (CFS)	INTENSITY I(100) (IN/HR)	DISCHARGE Q(100) (CFS)	COMMENTS
CLV 3	57.30	1.00	0.90	IMP	56.30	0.37	0.38	21.73	33.00	5.11	111	6.75	147	
CLV 4	31.20	1.20	0.90	IMP	30.00	0.37	0.39	12.18	20.00	6.63	80.7	8.65	105	
CLV 6A	52.10	1.00	0.90	IMP	51.10	0.34	0.35	18.27	24.00	6.06	111	7.94	145	
DA 6B	6.14	0.50	0.90	IMP	5.64	0.34	0.39	2.37	17.00	7.14	16.9	9.27	22	
CLV 6B	58.24										128		167	Culvert 6B combines Areas 6A & 6B
CLV 7	34.90	0.68	0.90	IMP	34.22	0.37	0.38	13.27	18.00	6.96	92.4	9.05	120	
CLV 8	10.20	0.74	0.90	IMP	9.46	0.37	0.41	4.17	11.00	8.49	35.4	10.89	45.4	

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann 7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255 OFFSITE DRAINAGE AREA MAP

BEGIN PROJECT TO STA 100+00

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	151

USER: ClayGann 4:51:33 PM
DATE: 7/10/2024
SCRIPT: S:\08_Projects\220111_CR255\99- Project Standards\CR255_plot.pen
FILE: c:\dgn\day.gann\dms\16872\CR255_ODM01.dgn

0 500 1000

SCALE: 1" = 1000'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. DRAINAGE AREAS LABELED ON THIS MAP APPLY TO CROSS CULVERT OUTFALLS ONLY. REFER TO THE DRAINAGE AREA MAPS FOR DITCH & DRIVEWAY PIPE DESIGN AREAS. DUE TO THE SMALLER SCALE, SUB-AREA BOUNDARIES ARE SHOWN ON THIS MAP TO PROVIDE THE FULL LIMITS OF ALL INTERNAL DRAINAGE AREAS.
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4. RATIONAL METHOD FLOWS WERE COMPUTED USING TXDOT'S ATLAS 14 SPREADSHEET TOOL (EBDLKUP-2019-VC6.2.10) PARTIAL DURATION, SAN GABRIEL RIVER ZONE, WILCO.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
OFFSITE
DRAINAGE AREA MAP

STA 100+00 TO END PROJECT

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	152

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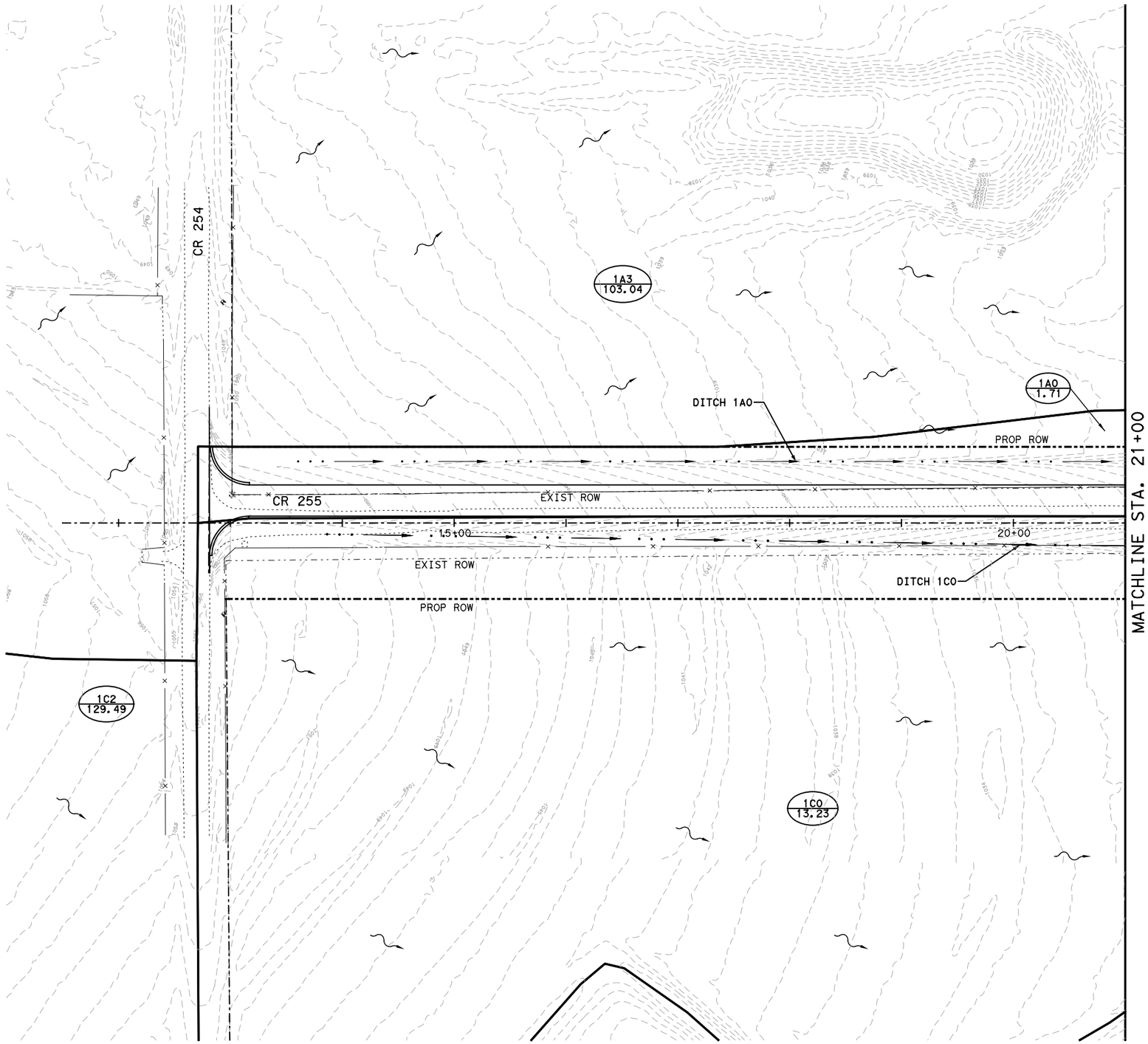

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
2. THESE DRAINAGE AREA MAPS REFLECT THE INTERNAL DRAINAGE BOUNDARIES NEEDED TO COMPUTE PEAK FLOWS USING THE RATIONAL METHOD FOR THE DESIGN OF DITCHES AND DRIVEWAY CULVERTS. REFER TO THE OFFSITE DRAINAGE AREA MAPS FOR THE FULL LIMITS OF IDENTIFIED DRAINAGE BOUNDARIES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

BEGIN PROJECT TO STA 21+00

SHEET 1 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	153

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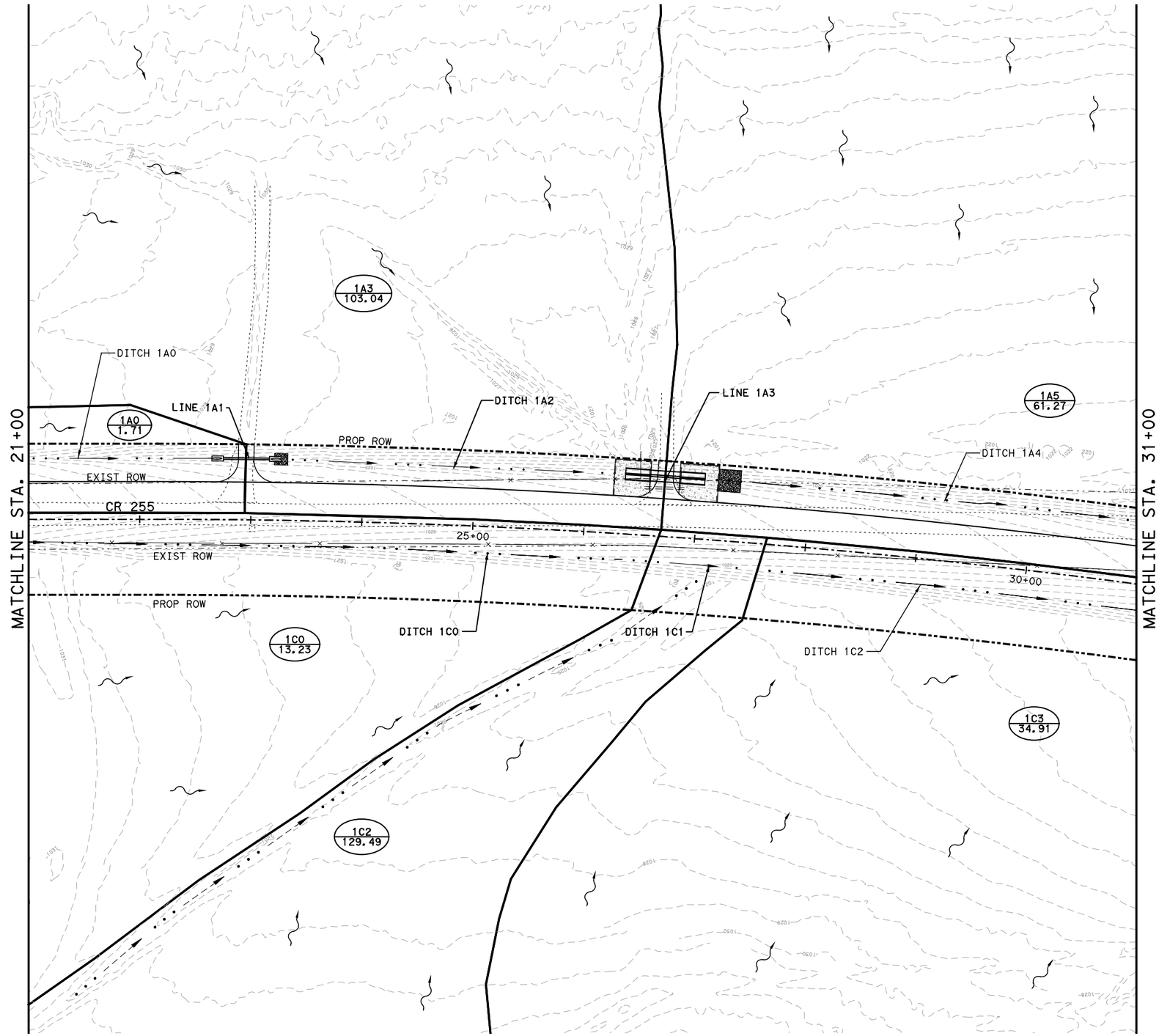

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E. Gann, P.E. 7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 21+00 TO 31+00

SHEET 2 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	154

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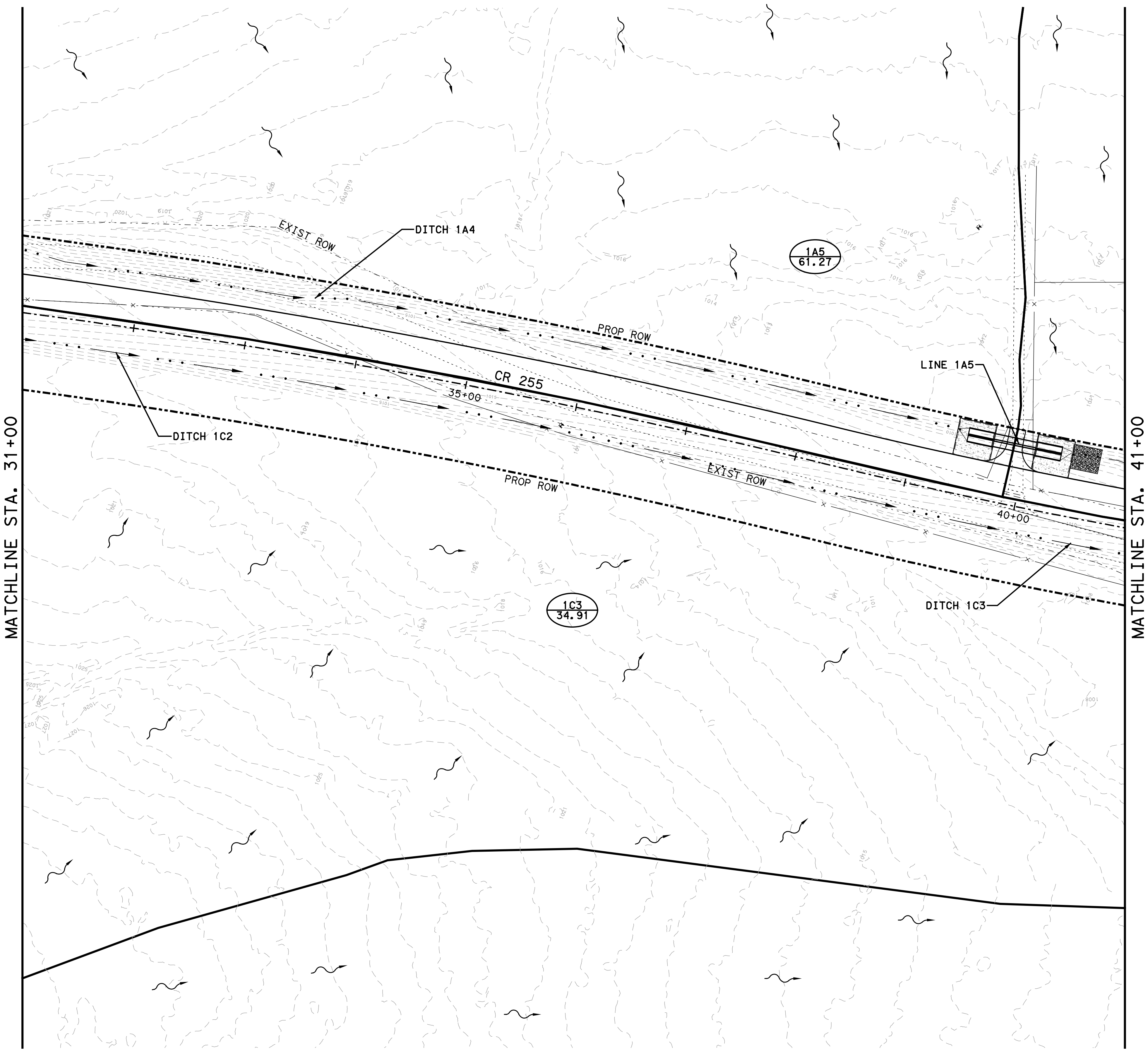

0 50 100
SCALE: 1" = 100'

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 31+00 TO 41+00

SHEET 3 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
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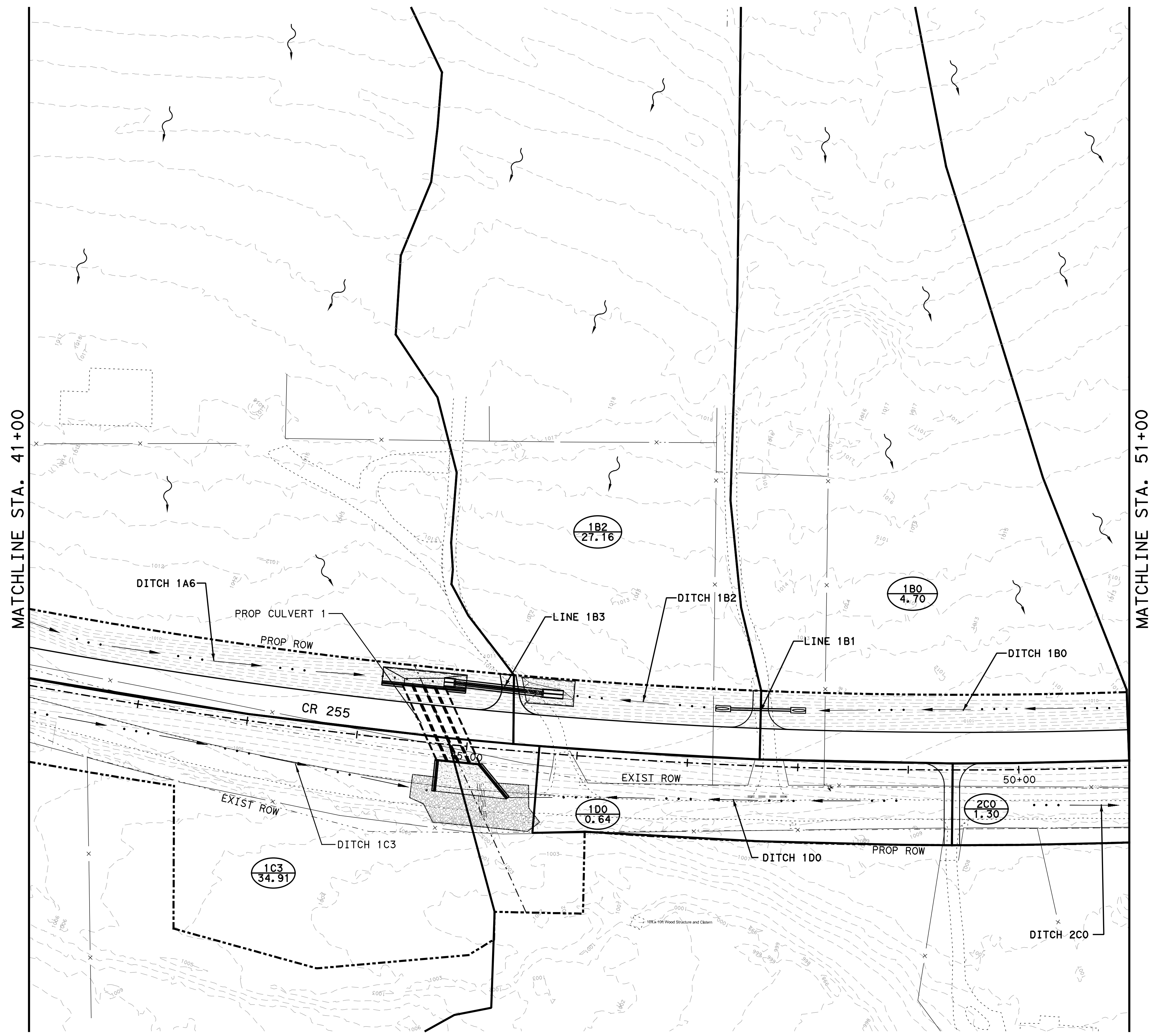

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 41+00 TO 51+00

SHEET 4 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
CHECKED:	XX	XX	XX	XX	XX / 156

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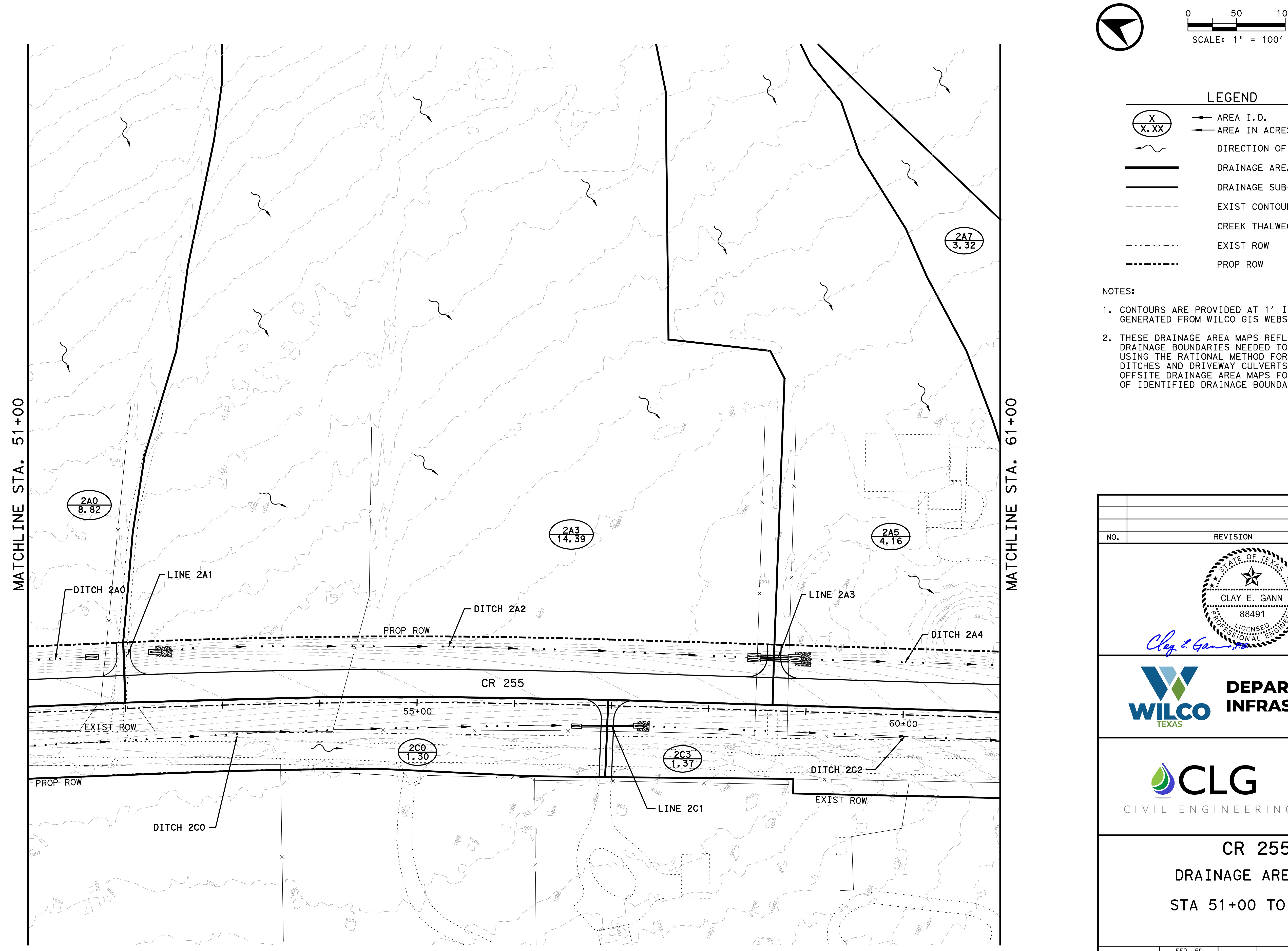

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 51+00 TO 61+00

SHEET 5 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.			HIGHWAY No.
CHECKED:	X	TEXAS				CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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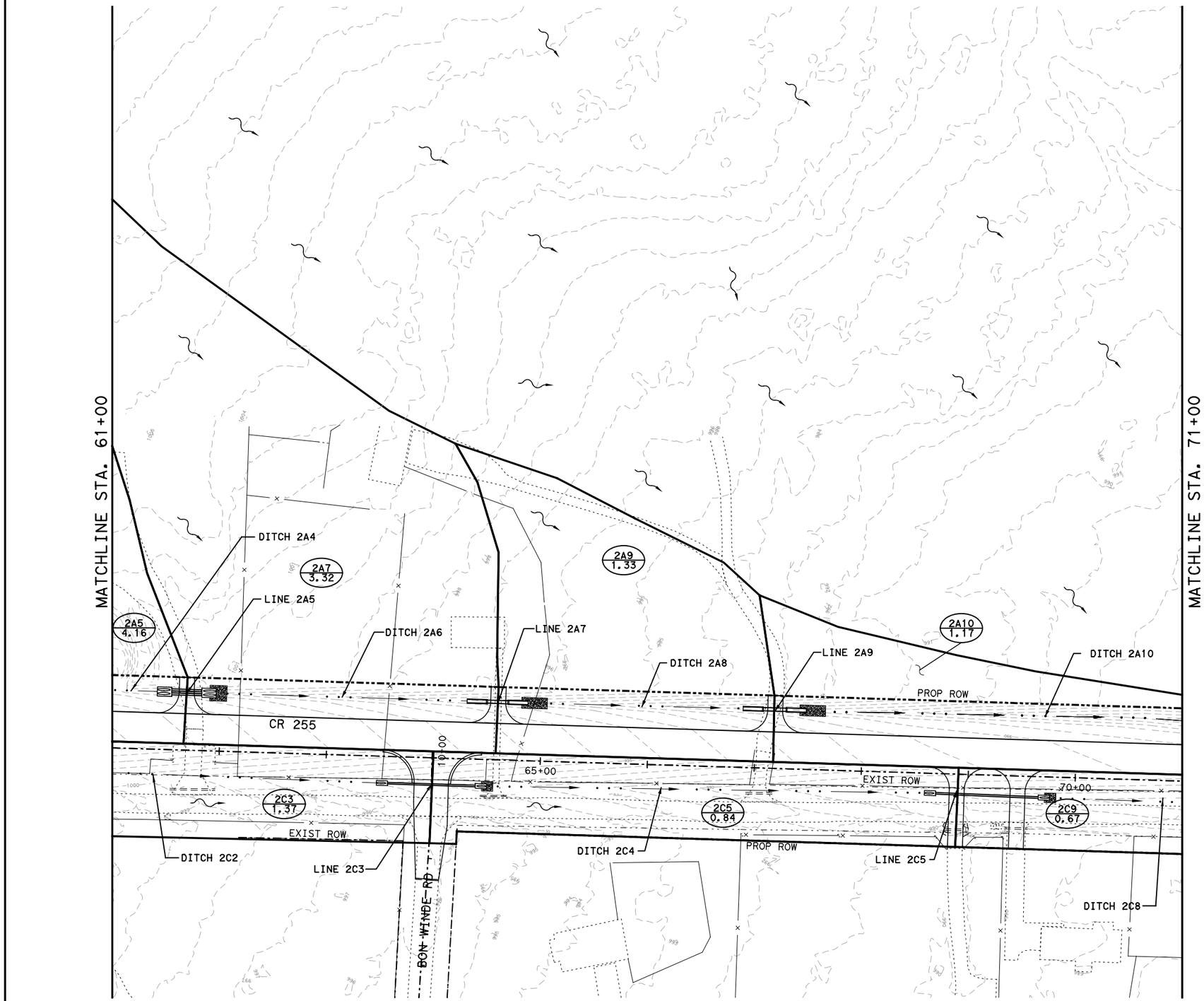

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS — CLAY E. GANN — 88491 — LICENSED PROFESSIONAL ENGINEER

7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 61+00 TO 71+00

SHEET 6 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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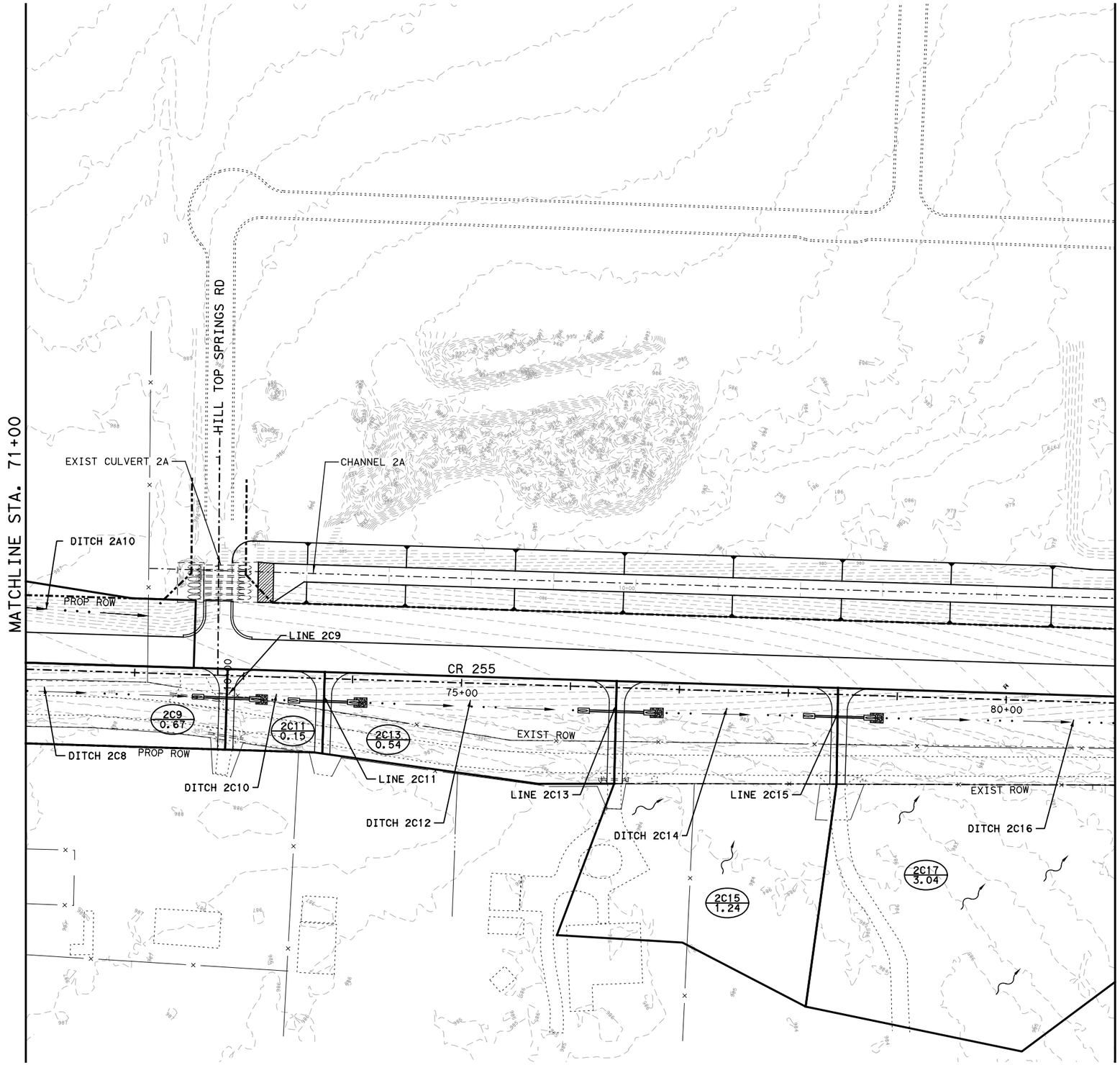

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 71+00 TO 81+00

SHEET 7 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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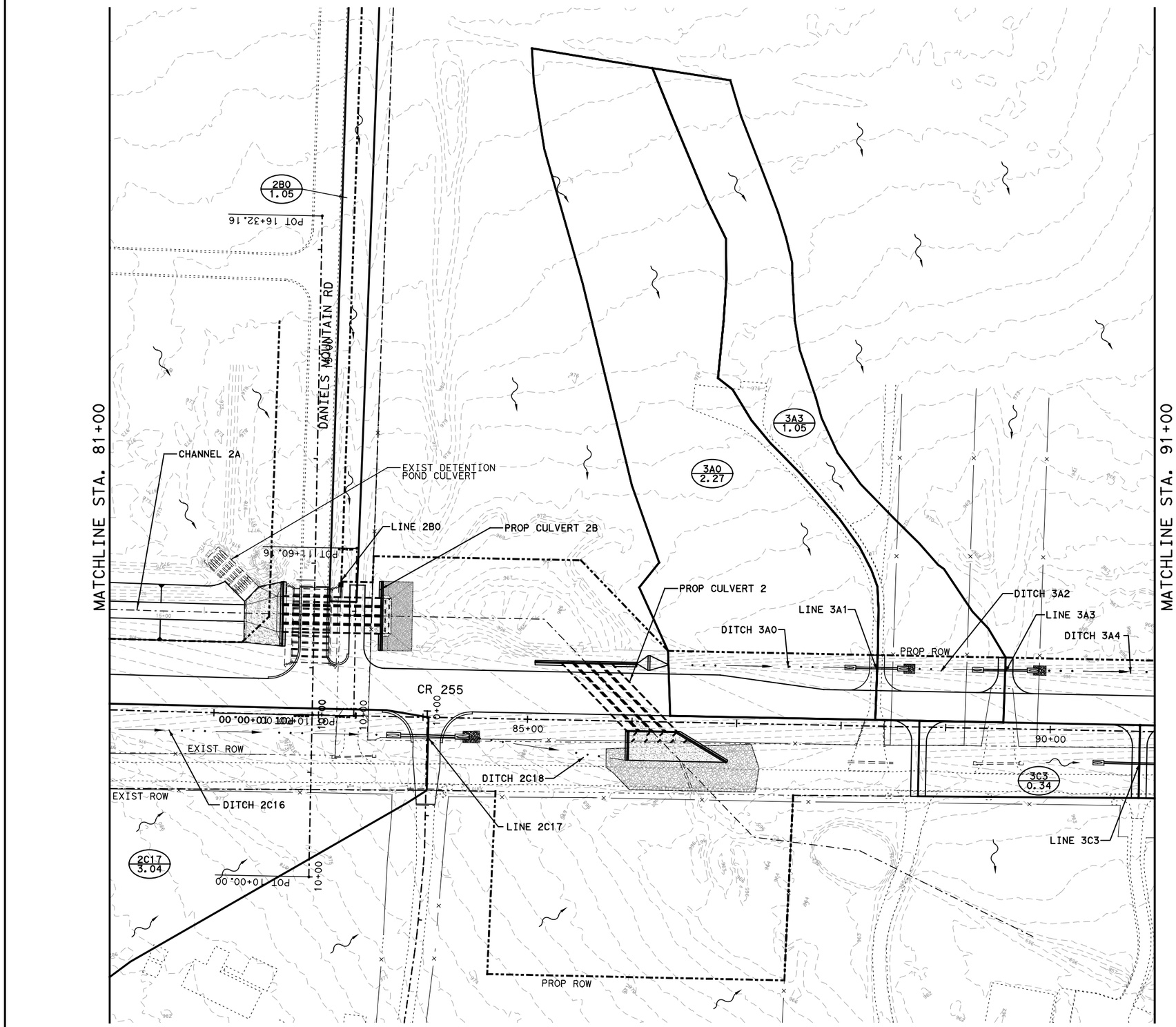

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS — DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 81+00 TO 91+00

SHEET 8 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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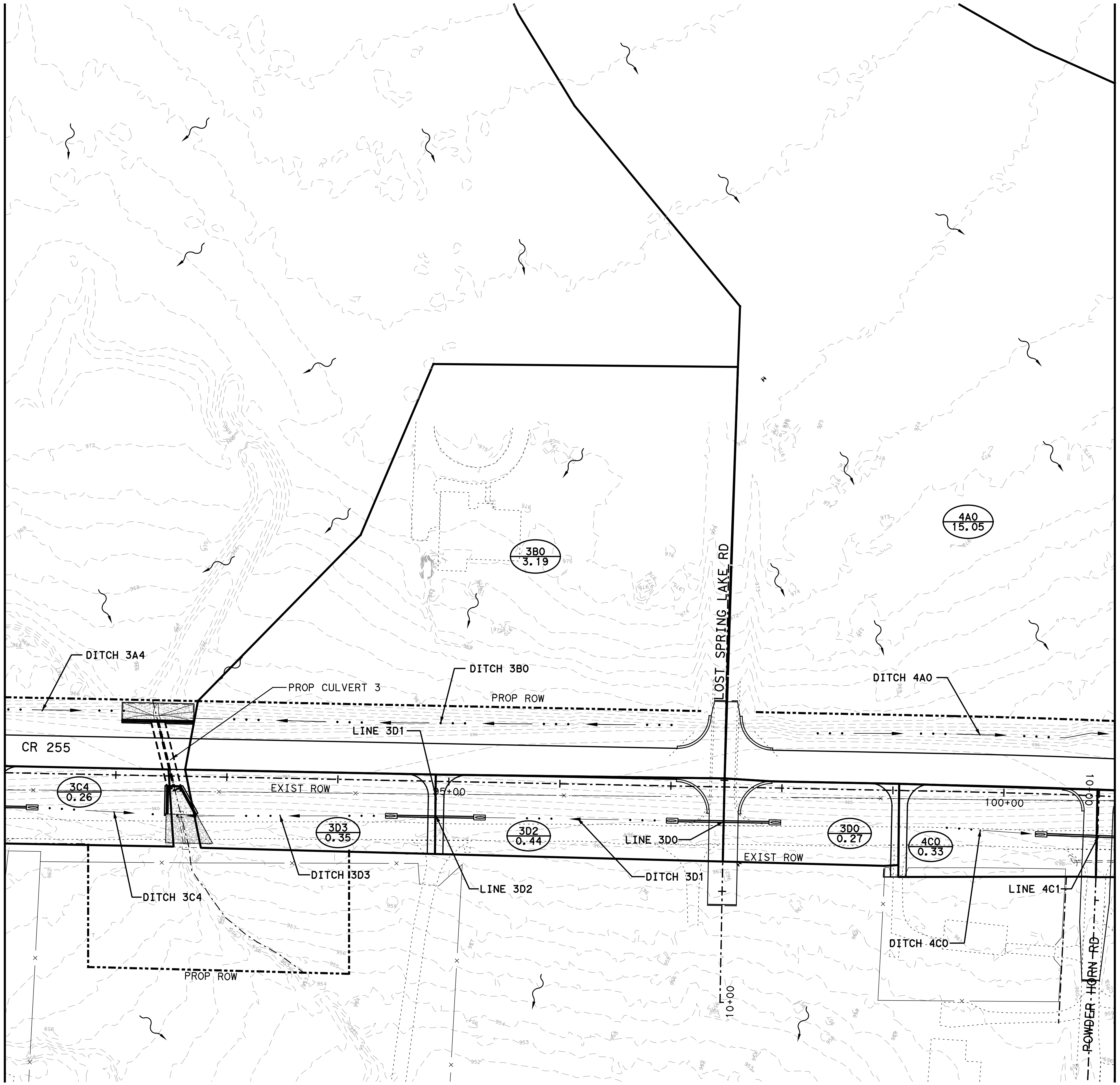

SCALE: 1" = 100'

0 50 100

LEGEND

- AREA I.D. / AREA IN ACRES (X / X.XX)
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, PE 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 91+00 TO 101+00

SHEET 9 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:	X	TEXAS		CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No. / SECTION No. / JOB No.	SHEET No.
CHECKED:	XX	XX	XX / XX / XX	161

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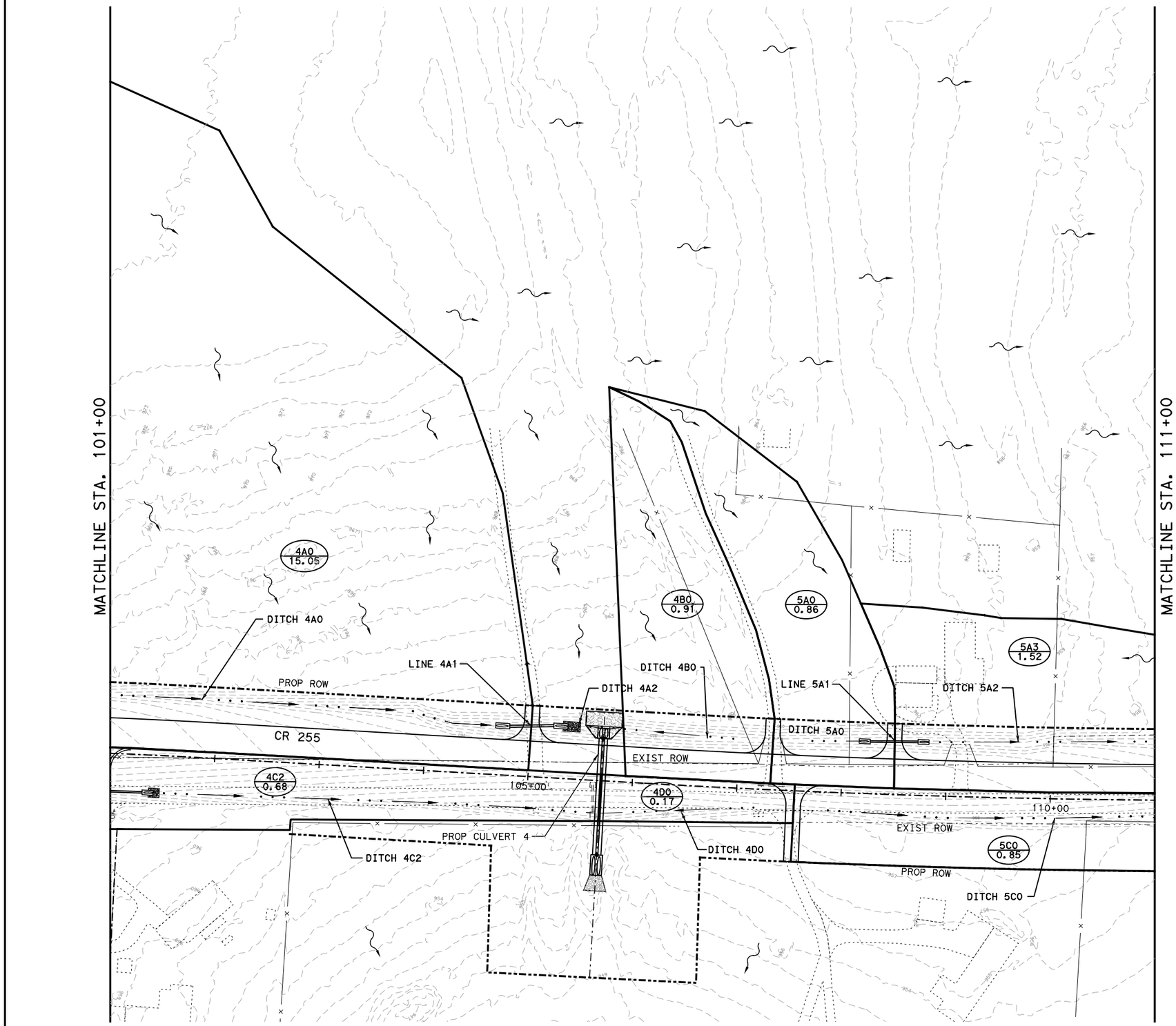

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
STA 101+00 TO 111+00

SHEET 10 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	162

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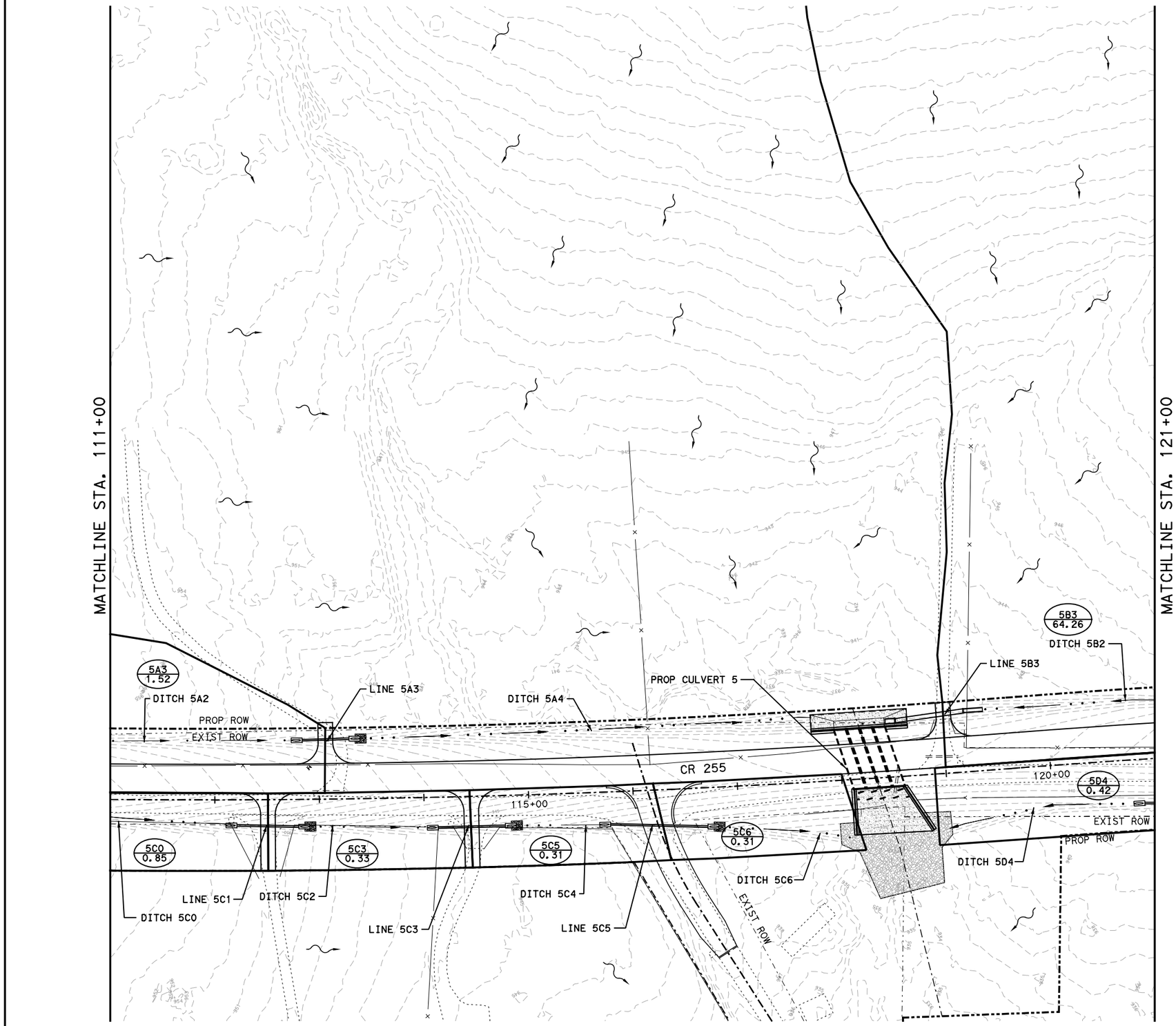

0 50 100
SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

WILCO TEXAS

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 111+00 TO 121+00

SHEET 11 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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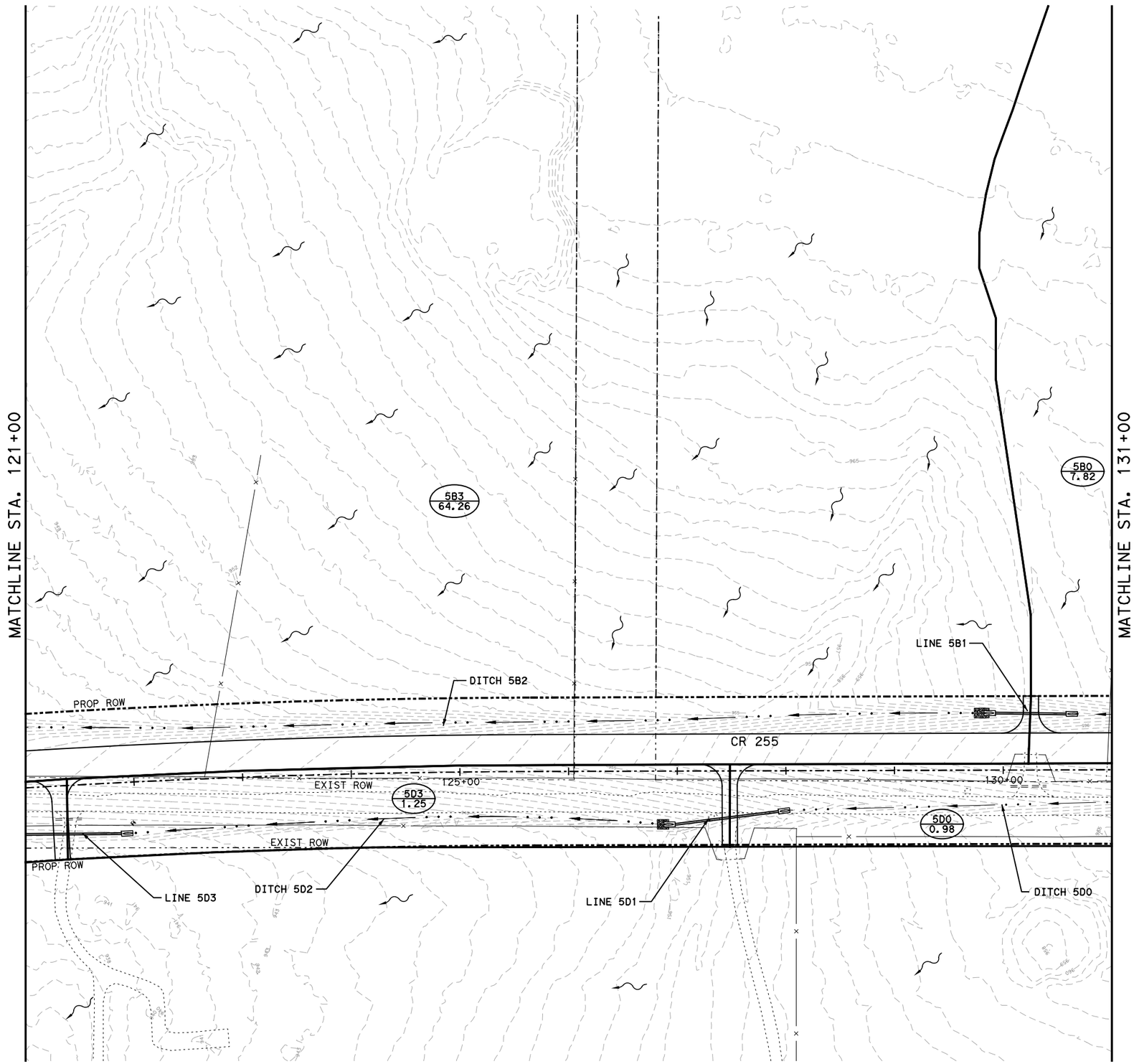

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
7/10/2024

WILCO TEXAS

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Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 121+00 TO 131+00

SHEET 12 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	164

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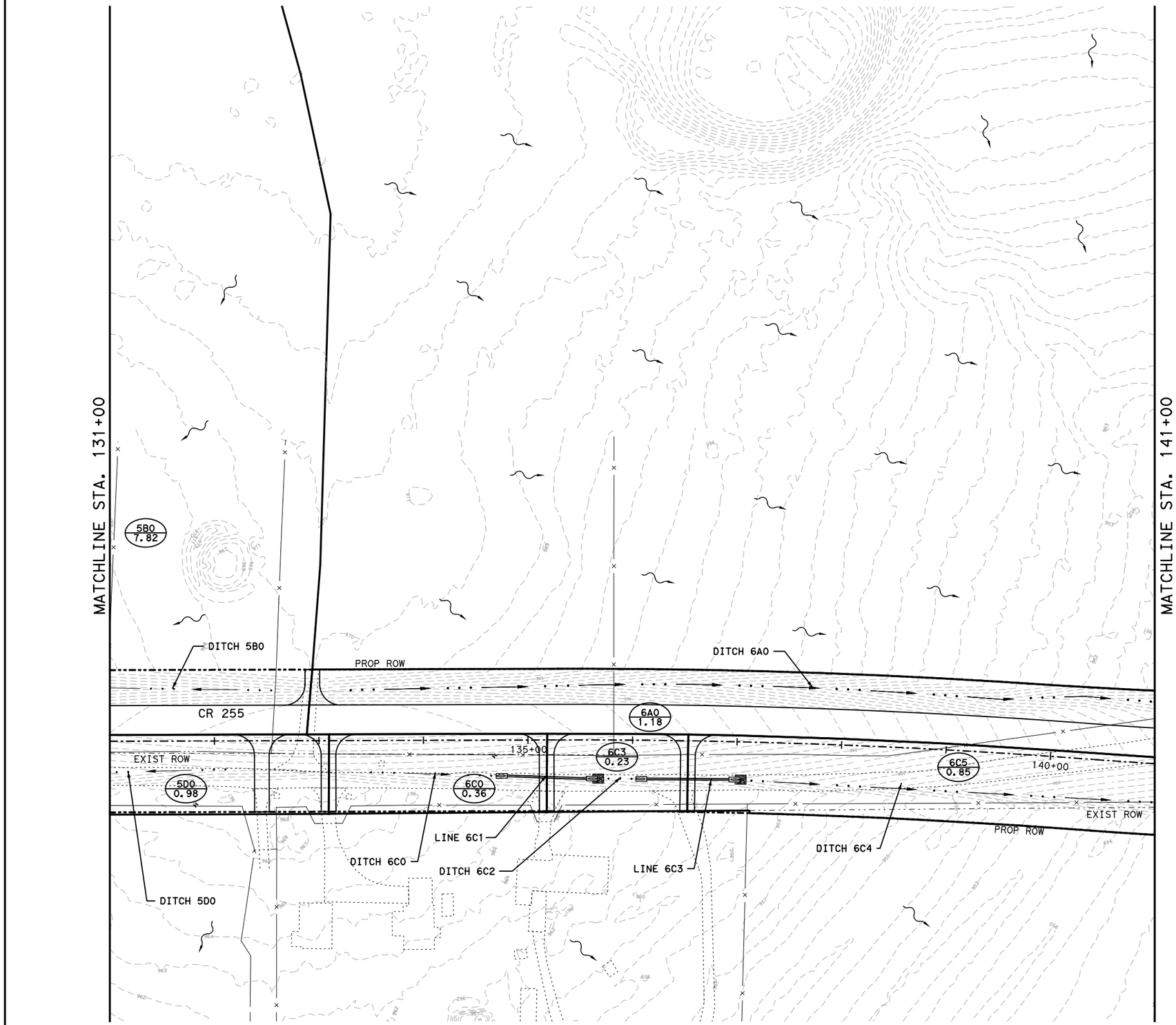

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SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

NOTES:

1. CONTOURS ARE PROVIDED AT 1' INTERVALS AND GENERATED FROM WILCO GIS WEBSITE AND TNRIS DATA.
2. THESE DRAINAGE AREA MAPS REFLECT THE INTERNAL DRAINAGE BOUNDARIES NEEDED TO COMPUTE PEAK FLOWS USING THE RATIONAL METHOD FOR THE DESIGN OF DITCHES AND DRIVEWAY CULVERTS. REFER TO THE OFFSITE DRAINAGE AREA MAPS FOR THE FULL LIMITS OF IDENTIFIED DRAINAGE BOUNDARIES.

NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED
PROFESSIONAL ENGINEER
7/10/2024

DEPARTMENT OF INFRASTRUCTURE

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 131+00 TO 141+00

SHEET 13 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	165

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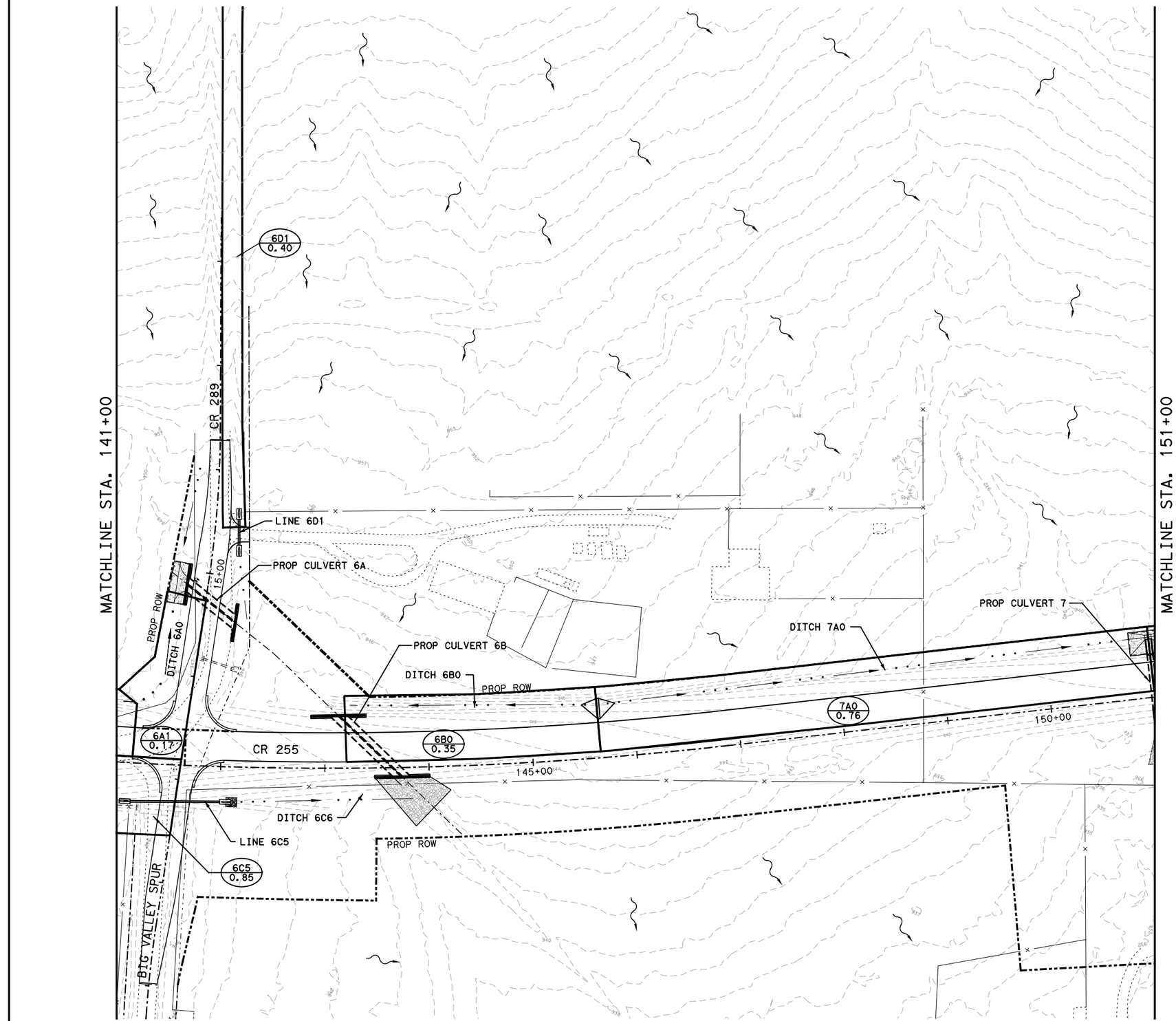

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SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
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- CREEK THALWEG
- EXIST ROW
- PROP ROW

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STATE OF TEXAS
CLAY E. GANN
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7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 141+00 TO 151+00

SHEET 14 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	166

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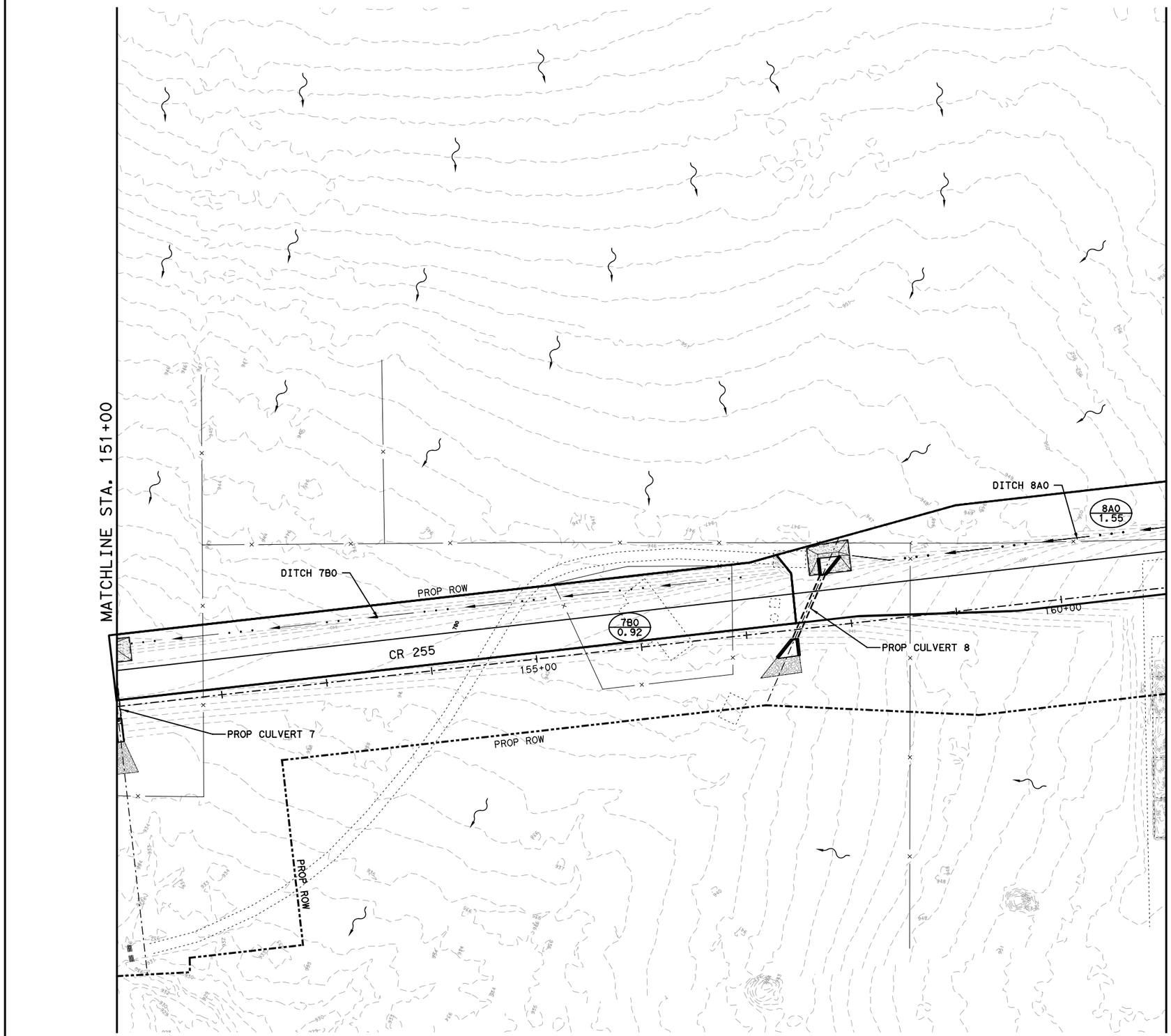

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SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
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7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
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TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 151+00 TO 161+00

SHEET 15 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	167

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SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
- EXIST CONTOUR
- CREEK THALWEG
- EXIST ROW
- PROP ROW

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STATE OF TEXAS
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7/10/2024

WILCO TEXAS

DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING

CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255

DRAINAGE AREA MAP

STA 161+00 TO END PROJECT

SHEET 16 OF 16

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
CHECKED:	XX	XX	XX	XX	XX	168

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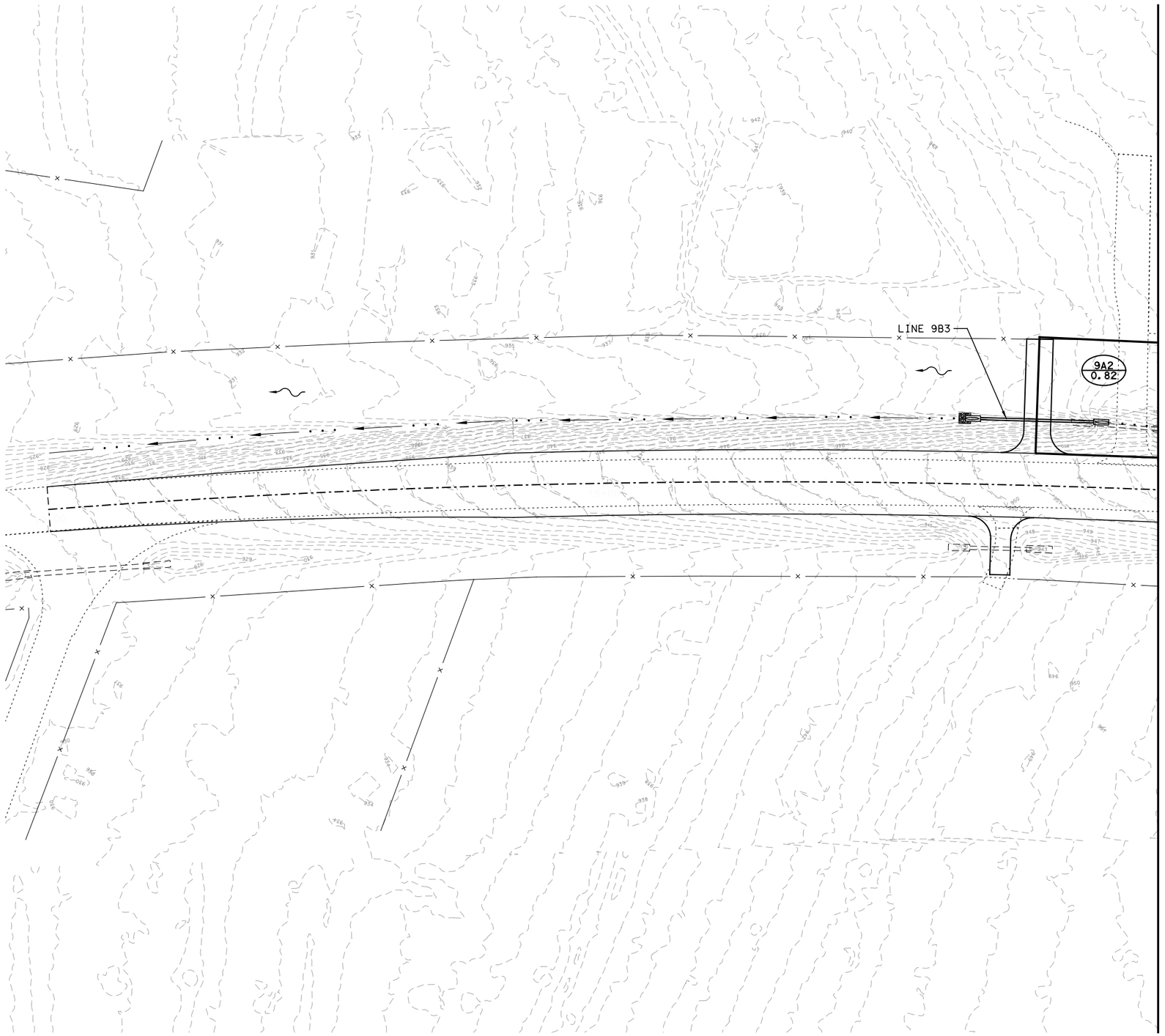

0 50 100

SCALE: 1" = 100'

LEGEND

- X / X.XX — AREA I.D. / AREA IN ACRES
- DIRECTION OF FLOW
- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA BOUNDARY
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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER

Clay E Gann 7/10/2024

WILCO TEXAS — DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
CLGANN, LLC
3708 Norman Loop
Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
RONALD REAGAN BLVD
BEGIN PROJECT TO STA 20+00

SHEET 1 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.	
CHECKED:	X	TEXAS			CR 255	
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No.	SHEET No.
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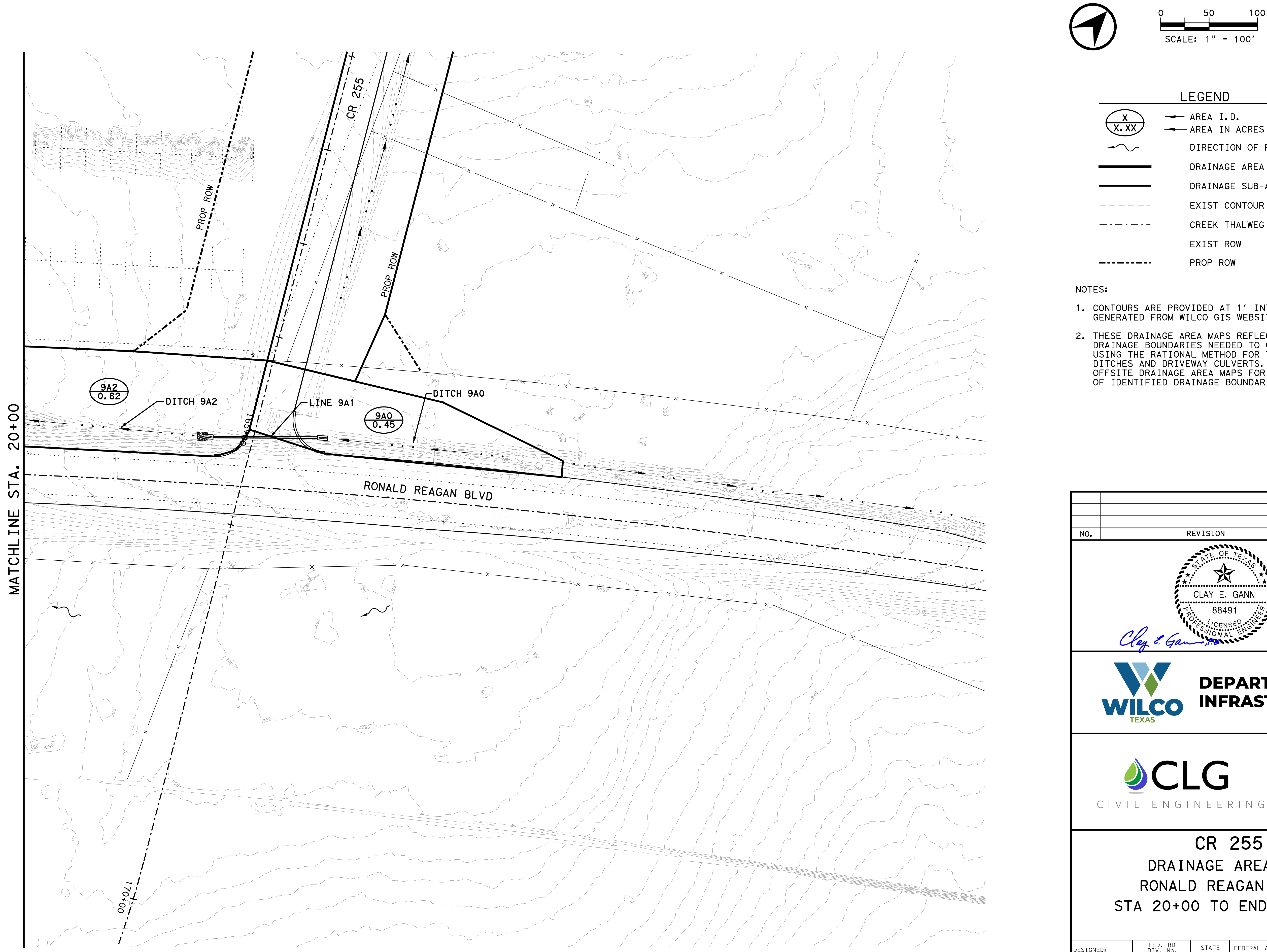

LEGEND

X / X.XX	AREA I.D. / AREA IN ACRES
	DIRECTION OF FLOW
	DRAINAGE AREA BOUNDARY
	DRAINAGE SUB-AREA BOUNDARY
	EXIST CONTOUR
	CREEK THALWEG
	EXIST ROW
	PROP ROW

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NO.	REVISION	BY	DATE

STATE OF TEXAS
CLAY E. GANN
88491
LICENSED PROFESSIONAL ENGINEER
Clay E. Gann, P.E. 7/10/2024

WILCO TEXAS
DEPARTMENT OF INFRASTRUCTURE

CLG CIVIL ENGINEERING
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Round Rock, TX 78664
512.574.5738
TBPE Firm No. 20717

CR 255
DRAINAGE AREA MAP
RONALD REAGAN BLVD
STA 20+00 TO END PROJECT

SHEET 2 OF 2

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.		HIGHWAY No.
CHECKED:	X	TEXAS			CR 255
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.	JOB No. / SHEET No.
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ATTACHMENT H – TEMPORARY SEDIMENT POND PLANS AND CALCULATIONS

No sediment ponds are proposed for this project so no plans or calculations are provided.

ATTACHMENT I – INSPECTION AND MAINTENANCE FOR BMPS

INSPECTION FREQUENCY AND PROCEDURES

Frequency

Qualified personnel should inspect the construction site on a regular inspection cycle. Inspection cycles include at least once every 14 calendar days and within 24 hours of the end of a rainfall that is 1/2-inchor greater or once every 7 days. Where sites have been finally stabilized, or during seasonal arid periods in arid (with an average annual rainfall of 0 to 10 inches) and semiarid (with an average annual rainfall of 10 to 20 inches) areas, inspections shall be conducted at least monthly. The inspection cycle is located on the project's SW3P sheet. The default option is at least once every 14 calendar days and within 24 hours of the end of a rainfall that is 1/2 inch or greater. The inspection shall include an evaluation of the BMP condition, maintenance requirements, and an indication of whether the device is functioning properly. If the inspection determines that modifications to the SW3P are needed, changes will be completed within 7 calendar days of the inspection.

Record Keeping and General Procedures

A report summarizing the inspection shall be completed that includes the

following:

- Name(s) and qualifications of personnel making the inspection.
- The date(s) of the inspection.
- Major observations relating to the implementation of the SW3P and actions taken.

The inspection form to be used—Form 2118—is presented at the end of this Attachment. Note: The Engineer must approve additional BMPs identified as needed in an inspection that is not shown on the SWP3. If any issues are listed that are potentially not in compliance, forward the report immediately to your supervisor. Corrective actions must be taken immediately when the contractor or cleanup procedure is not in compliance with BMPs.

Records of all inspections shall be retained on-site.

TxDOT's website link to download a pdf version of Form 2118 can be found by scanning the QR code below.

TEMPORARY AND PERMANENT VEGETATION

Description

Vegetation is utilized to establish a temporary vegetative cover over areas disturbed by construction but not yet covered by pavement, buildings, permanent vegetation, or other structures. Temporary vegetation protects the soil from erosion until permanent structural installation or final soil stabilization is complete. Permanent vegetation provides final soil stabilization after soil-disturbing activities are complete.

Inspection and Installation Guidelines

- Complete grading activities prior to applying seed mixture.
- Apply compost-manufactured topsoil if required.
- Apply the seed mixture uniformly to the disturbed areas as required.
- Verify that applied seeds are well pulverized, loose, and uniform.
- Apply fertilizer, if necessary, at the appropriate rate.
- Irrigate vegetation initially and as dry conditions require.
- Determine if weeds and/or pests are hindering vegetative growth.
- Determine if erosion-control measures (mulching, blankets, erosion-control compost, mattings, etc.) are required to assist vegetation growth on steep slopes.

Maintenance Guidelines

- Seed areas that have less than 80% vegetative cover established.
- Fertilize and irrigate sod vegetation as needed.
- Implement a weed and pest management plan if necessary.
- Implement the erosion control measures, including dikes, diversion, and slope regrading, for steep slopes where vegetation is not established due to erosion of seed.

BLANKETS AND MATTINGS

Description

Blankets and mattings refer to sheets of erosion-control materials (straw, jute, wood fiber, coconut fiber, plastic netting, erosion-control compost, or other TxDOT-approved materials) placed on the surface of disturbed soil. The blankets and mattings protect the soil from erosion until vegetation becomes established.

Inspection and Installation Guidelines

- Complete grading, fertilization, and seeding activities prior to installing a blanket or matting unless noted otherwise in the specifications.
- Install the blanket or matting in accordance with the manufacturer's recommendations and/or the specifications.
- Anchor the blanket or matting to the soil surface using staples, trenches, or other TxDOT-approved anchoring methods.
- Install anchor staples flush with the soil surface.
- Secure blanket or matting joints (Note: Specifications typically require a minimum amount of overlap).
- Identify areas where the blanket or matting is loose, damaged, or missing.

Maintenance Guidelines

- Seed areas that exhibit inadequate vegetative growth followed by anchoring or replacement of the blanket or matting.
- Anchor any loose areas of the blanket or matting.
- Replace any damaged or missing areas of the blanket or matting.

SILT FENCE

Description

A silt fence consists of geotextile fabric supported by metal posts and wire mesh that prevents soil and sediment from leaving areas disturbed by construction.

Inspection and Installation Guidelines

- Ensure that the silt fence is installed perpendicular to the direction of runoff flow.
- Securely fasten the geotextile fabric to metal posts or wire mesh.
- Face the geotextile fabric towards the construction area (the steel posts and wire mesh behind the fabric should face away from the construction area).
- Securely anchor the geotextile fabric to the ground so that storm water runoff does not pass beneath the fence.
- Embed the steel posts a minimum of 1 foot deep and no more than 8 feet apart, or 6 feet apart where water is concentrated.
- Ensure that there is a 3-foot overlap where the ends of the geotextile fabric meet.
- Remove accumulated sediment when buildup reaches 1/3 the height of the fence.
- Re-install the silt fence at the end of the day if it was temporarily moved (such as for vehicular access).
- Repair torn or missing sections of the geotextile fabric.

Maintenance Guidelines

- Repair and replace the silt fence as needed.
- Remove sediment.
- Securely fasten and anchor the silt fence.

ROCK BERM

Description

A rock berm consists of a dike constructed of rock wrapped in wire mesh (Type 1 rock berms do not use wire mesh). A rock berm intercepts and slows storm water runoff and retains sediment.

Inspection and Installation Guidelines

- Install the berm perpendicular to the direction of runoff flow.
- Embed the berm a minimum of 4 inches into the ground.
- When placed in a channel, tie the ends of the berm to the existing side slopes.
- Wrap rocks with wire mesh (wire mesh is not used for Type 1 berms).
- Overlap wire mesh a minimum of 2 inches at ends and at joints (wire mesh is not used for Type 1 berms).
- Repair any wire mesh damaged by traffic (wire mesh is not used for Type 1 berms).
- Remove accumulated sediment.

Maintenance Guidelines

- Repair wire mesh (wire mesh is not used for Type 1 berms).
- Remove sediment.

STABILIZED CONSTRUCTION EXIT

Description

A stabilized construction exit is a pad of crushed stone, timber, or other TxDOT-approved material located at any point at which traffic will be leaving the construction site to or from a public right-of-way, street, sidewalk, or parking area. A stabilized construction exit minimizes or eliminates the transport of sediment onto public rights-of-way.

Inspection and Installation Guidelines

- Ensure that the construction pad is flush with the connecting road so that no damage occurs to the road edge.
- Ensure that the pad foundation is stable enough to handle traffic and that it exhibits minimal settling.
- Re-grade the slope of the pad as necessary to improve drainage.
- Remove any sediment that is spilled, dropped, washed, or tracked onto public rights-of-way immediately.
- Wash wheels if off-site sediment tracking is occurring.
- Capture and drain wash water to an approved sediment-control structure, such as a sediment trap or basin.

Maintenance Guidelines

- None. Construction exit should be removed after construction activities.

GOOD HOUSEKEEPING

Good housekeeping refers to keeping a clean, orderly construction site. Good housekeeping practices are necessary to prevent storm water contamination. Examples of good housekeeping practices include the following:

- Storing chemicals, pesticides, fertilizers, fuels, etc., in a manner that prevents contact with storm water.
- Scheduling regular collection of garbage, rubbish, construction waste, and sanitary waste.
- Cleaning up spills of liquid or dry materials promptly.
- Cleaning up sediments that have been tracked by vehicles onto the site or nearby roadways.
- Controlling the dumping of excess concrete and concrete wastewater on the site.
- Ensuring that stockpiles of material such as fill are located to prevent storm water from transporting off-site.

CONSTRUCTION WASTES

Construction projects tend to generate a variety of excess or unused material. These wastes are sometimes called “construction wastes.” Construction wastes may include, but are not limited to, the following:

- Trees and shrubs removed during clearing and grubbing.
- Packaging materials (wood, paper, plastic, etc.).
- Scrap or surplus building materials (scrap metals, rubber, plastic and glass pieces, masonry products, plywood lumber, etc.).
- Materials resulting from the demolition of structures.

The following steps will help ensure proper disposal of construction waste as well as prevent storm water contamination:

- Select a designated waste collection area on-site.
- Provide an adequate number of containers with lids or covers that can be placed over the container prior to rainfall.
- When possible, place containers in a covered area.
- Arrange for waste collection before containers become full.
- Conduct daily site cleanups so that wastes are property managed prior to leaving the site.
- Clean up any spills immediately.
- Plan for additional containers and more frequent pickups during the demolition phase of construction.
- Verify that construction waste is collected, removed, and disposed of only at authorized disposal areas.
- Check with the local solid waste management agency for specific guidance.

HAZARDOUS MATERIALS

Many of the materials found at construction sites may be hazardous to the environment or to human health. At a minimum, any products in the categories listed below are considered to be hazardous:

- Paints.
- Acids for cleaning masonry surfaces.
- Cleaning chemicals.
- Asphalt products.
- Chemicals used for soil stabilization.
- Concrete-curing chemicals.
- Fuel products.

The following practices will help ensure proper disposal of hazardous wastes as well as prevent storm water contamination:

- Store materials in a manner that prevents contact with runoff.
- Check with local management authorities to determine the requirements for disposal of hazardous materials.
- Use the entire product before throwing away the container.
- Do not remove the original product label from the container.
- If surplus products are thrown away, avoid mixing products together.
- Follow the manufacturer's recommended method of disposal.
- Contaminated soil is soil that has been in contact with or contains hazardous substances. Contaminated soil may be encountered on-site during earthwork activities or during the cleanup of a spill or leak of a hazardous substance. Material storage areas may also have been contaminated by undetected spills. A state or local solid waste regulatory agency should be contacted for information and procedures necessary to handle contaminated soil. Some landfills may accept contaminated soil; however, laboratory testing may be required prior to a final decision.
- Concrete trucks should not be washed out at the construction site unless sufficient area has been made available to fully capture the wash water. The wash water must be prevented from entering any storm water drainage systems.
- Sandblasting is commonly used to remove paint, dirt, etc., from surfaces. Sandblasting grit, which consists of both the spent sand and the particles of paint and dirt removed from the surface, is hazardous if used to clean old structures on which metal-based paints were used. The grit should not be washed into the storm drain or sanitary sewer.

OFF-SITE VEHICLE TRACKING

Day-to-day practices can have a major impact on storm water contamination because of their potential for generating sediments. A common problem is vehicles leaving the construction site and transporting sediments to off-site roadways. Measures used to minimize off-site vehicle tracking of sediments include the following:

- Building stabilized construction exits and construction roads out of rocks or other material that will not stick to vehicle tires.
- Cleaning paved streets adjacent to the site to remove any excess mud, dirt, or rock tracked from the site.
- Scheduling deliveries or other traffic at a time when personnel are available to provide cleanup if it is required.

SANITARY FACILITIES

Sanitary waste facilities are those facilities used to manage raw sewage at the construction site. The most common facilities are portable facilities that store the sanitary wastes. Other facilities include temporary facilities that employ septic systems for treatment and disposal of sewage, or temporary facilities that release wastes to a sanitary sewer system. Sanitary or septic wastes that are generated on-site should be managed in accordance with state and/or local requirements. To prevent sanitary waste from contacting storm water, the following measures should be implemented:

- Schedule approved waste haulers to regularly remove sanitary and septic wastes and to maintain the facilities in good working order.
- Properly connect the sanitary waste facilities to the sanitary sewer system to prevent releases to the construction site or use appropriate portable facilities.
- Never release or bury untreated, raw sewage waste at the construction site.

ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES

Vehicular traffic should be limited to areas of the project site where construction will take place. The contractor should endeavor to preserve existing vegetation as much as practicable to reduce erosion and lower the cost associated with stabilization. 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.

All disturbed areas shall be stabilized as described below.

Except as provided for below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

A. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover or frozen ground conditions, stabilization measures shall be initiated as soon as practicable.
B. Where construction activity on a portion of the site has temporarily ceased, and earth-disturbing activities will be resumed with 21 days, temporary stabilization measures do not have to be initiated on that portion of the site.
C. In areas experiencing drought, where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

Stabilization measures as described as follows:

All disturbed grass areas should be planted in drought resistant species normally grown as permanent lawns, such as Zoysia, Bermuda and Buffalo. Grass areas may be sodded, plugged, sprigged, or seeded except that solid sod shall be used in swales or other areas subject to erosion. All planted areas shall be provided with a readily available water supply and watered as necessary to ensure continuous healthy growth and development. Maintenance shall include the replacement of all dead plant material if that material was used to meet the requirements of this section.

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

I Adam Boatright, P.E.,
Print Name

County Engineer,
Title - Owner/President/Other

of Williamson County,
Corporation/Partnership/Entity Name

have authorized. Clay E. Gann, P.E.
Print Name of Agent/Engineer

of CLGann, LLC
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:

Adam D. Boatright
Applicant's Signature

08/19/2024
Date

THE STATE OF Texas §

County of Williamson §

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

GIVEN under my hand and seal of office on this 19th day of August.

NOTARY PUBLIC

NATHAN V. MALY
Typed or Printed Name of Notary

NATHAN VAUGHN MALY
Notary ID #134008884
My Commission Expires
October 10, 2026

MY COMMISSION EXPIRES: 10-10-26

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CR 255 Extension to Ronald Reagan Blvd

Regulated Entity Location: County Road 255 from Intersection of CR 254 to Ronald Reagan Blvd

Name of Customer: Williamson County

Contact Person: Terron Evertson, P.E. Phone: 512-943-3330

Customer Reference Number (if issued):CN 600897888

Regulated Entity Reference Number (if issued):RN _____

Austin Regional Office (3373)

☐ Hays ☐ Travis ☒ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde

☐ Comal ☐ Kinney

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

☒ Austin Regional Office

☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office

☐ 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	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	68.48 Acres	$ 8000
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: Clay E. Gan, P.E. Date: 08/19/24

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

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ 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 600897888		RN

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*) *If new Customer, enter previous Customer below:*

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:

City		State		ZIP		ZIP + 4	

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 below this form should be accompanied by a permit application*)

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (*Enter name of the site where the regulated action is taking place.*)

County Road 255 Extension to Ronald Reagan Blvd

23. Street Address of the Regulated Entity: *(No PO Boxes)*							
City		**State**		**ZIP**		**ZIP + 4**	
24. County	Williamson						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	From Andice, go south on RM 2338 for 1.34 miles, west on CR 254 for 4000 ft to the CR 255 intersection or what is the northern termini of the CR 255 project.

26. Nearest City	**State**	**Nearest ZIP Code**
Georgetown	TX	78633

27. Latitude (N) In Decimal:	30.760463	**28. Longitude (W) In Decimal:**	97.856753

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	45	37.6 N	97	51	24.3 W

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1611		237310	

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

Public Roadway

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.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Clay E. Gann, P.E.	**41. Title:**	President

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 574-5738		( ) -	cgann@clgann.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:	CLGann, LLC	**Job Title:**	President
Name *(In Print):*	Clay E. Gann, P.E.	**Phone:**	(512) 574- **5738**
Signature:	Clay E Gann, P.E.	**Date:**	08/19/24