

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 6

Contractor: Chasco Constructors NTP Required: YES NO

Project Name: Ronald Reagan Boulevard Widening

Change Order Work Limits: Sta. 2405+37.55 to Sta. 2680+84.48

Type of Change(on federal-aid non-exempt projects): Minor (Major/Minor)

Reasons: 1B, 2E (3 Max. - In order of importance - Primary first)

Contract Award Date:	<u>7/16/2024</u>
Project Number:	<u>24IFB57</u>
Funding Source:	<u>P336</u> <u>Ronald Reagan</u>
Roadway:	<u>Boulevard</u>
CSJ Number:	<u>N/A</u>

Describe the work being revised:

1B. Design Error or Omission. Other. This Change Order addresses conflicts related to the temporary culvert as described in RFI #42, as well as elevation issues identified in RFI #74 that require correction. **2E. Miscellaneous difference in site conditions (unforeseeable) (Item 9).** This Change Order also adds items to the contract for additional work required by Enterprise across their gas lines. Lastly, a monthly rate for an additional message board is being added to the Contract on an as-needed basis.


Work to be performed in accordance with Items: See attached.

New or revised plan sheet(s) are attached and numbered: 2, 19, 21, 24, 29, 40, 44A, 108A, 108B, 163, 164, 303, 323, 351, x875, x876


New Special Provisions/Specifications to the contract are attached: Yes No

New Special Provisions to Item N/A No. N/A Special Specification Item N/A are attached.

Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

<p><i>The contractor must sign the Change Order and, by doing so, agrees to waive any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.</i></p> <p>THE CONTRACTOR Date <u>9/17/2025</u></p> <p>By </p> <p>Typed/Printed Name <u>Scott Ambrus</u></p> <p>Typed/Printed Title <u>Project Manager</u></p>	<p>The following information must be provided</p> <p>Time Ext. #: <u>N/A</u> Days added on this CO: <u>0</u></p> <p>Amount added by this change order: <u>\$12,886.00</u></p> <hr/> <p>Original Contract Amount: <u>\$52,159,299.00</u></p> <p>Total Change Orders To-Date: <u>\$323,449.50</u></p> <p>Percent Change in Original Contract: <u>0.62%</u></p>
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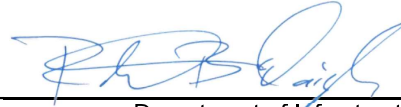
RECOMMENDED FOR EXECUTION:


Senior Construction Engineer Date 9/17/2025

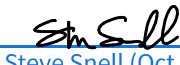

Program Manager Date 9/19/2025

N/A
3rd Party Signature Date

RECOMMENDED FOR EXECUTION:


Department of Infrastructure Date 9/19/2025
Williamson County

APPROVED:


Steve Snell (Oct 7, 2025 10:30:25 CDT) 10/07/2025
Presiding Officer of the Date
Williamson County Commissioners Court

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 6

Project # 24IFB57

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

ITEM	DESCRIPTION	UNIT	UNIT PRICE	ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		OVERRUN/ UNDERRUN
				QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	
402-6001	TRENCH EXCAVATION PROTECTION	LF	\$7.00	1801.00	\$12,607.00	(114.00)	1,687.00	\$11,809.00	(\$798.00)
432-6045	RIPRAP (MOWSTRIP)(4 IN)	CY	\$740.00	403.00	\$298,220.00	(17.00)	386.00	\$285,640.00	(\$12,580.00)
462-6001	CONC BOX CULV (3 FT X 2 FT)	LF	\$310.00	671.00	\$208,010.00	(227.50)	443.50	\$137,485.00	(\$70,525.00)
465-6162	INLET(COMPL)(PAZD)(FG)(5FTX5FT-4FTX4FT)	EA	\$8,700.00	1.00	\$8,700.00	(1.00)	0.00	\$0.00	(\$8,700.00)
540-6001	MTL W- BEAM GD FEN (TIM POST)	LF	\$34.00	4,902.00	\$166,668.00	(300.00)	4,602.00	\$156,468.00	(\$10,200.00)
540-6016	DOWNSTREAM ANCHOR TERMINAL SECTION	EA	\$1,670.00	21.00	\$35,070.00	(1.00)	20.00	\$33,400.00	(\$1,670.00)
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	\$4,100.00	26.00	\$106,600.00	(1.00)	25.00	\$102,500.00	(\$4,100.00)
400-6008	CUT & RESTORE ASPH PAVING	SY	\$250.00	0.00	\$0.00	28.00	28.00	\$7,000.00	\$7,000.00
422-WC01	ENTERPRISE CROSSING LID (145' X 10') (CONCRETE CAP)	CY	\$715.00	0.00	\$0.00	65.00	65.00	\$46,475.00	\$46,475.00
460-6005	CMP (GAL STL 36 IN)	LF	\$240.00	0.00	\$0.00	68.00	68.00	\$16,320.00	\$16,320.00
467-6110	SET (TY I)(S=3 FT)(HW=3 FT)(6:1)(P)	EA	\$16,000.00	0.00	\$0.00	1.00	1.00	\$16,000.00	\$16,000.00
467-6441	SET (TY II) (36 IN) (CMP) (4:1) (C)	EA	\$7,200.00	0.00	\$0.00	1.00	1.00	\$7,200.00	\$7,200.00
WC-001	PURCHASE, HAUL, PLACE, REMOVE CRANE MATS	EA	\$1,683.00	0.00	\$0.00	8.00	8.00	\$13,464.00	\$13,464.00
WC-002	PORTABLE CHANGEABLE MESSAGE SIGN	MO	\$1,500.00	0.00	\$0.00	10.00	10.00	\$15,000.00	\$15,000.00
TOTALS					\$835,875.00			\$848,761.00	\$12,886.00

CHANGE ORDER REASON(S) CODE CHART

<p>1. Design Error or Omission</p>	<p>1A. Incorrect PS&E 1B. Other</p>
<p>2. Differing Site Conditions (unforeseeable)</p>	<p>2A. Dispute resolution (expense caused by conditions and/or resulting delay) 2B. Unavailable material 2C. New development (conditions changing after PS&E completed) 2D. Environmental remediation 2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9) 2F. Site conditions altered by an act of nature 2G. Unadjusted utility (unforeseeable) 2H. Unacquired Right-of-Way (unforeseeable) 2I. Additional safety needs (unforeseeable) 2J. Other</p>
<p>3. County Convenience</p>	<p>3A. Dispute resolution (not resulting from error in plans or differing site conditions) 3B. Public relations improvement 3C. Implementation of a Value Engineering finding 3D. Achievement of an early project completion 3E. Reduction of future maintenance 3F. Additional work desired by the County 3G. Compliance requirements of new laws and/or policies 3H. Cost savings opportunity discovered during construction 3I. Implementation of improved technology or better process 3J. Price adjustment on finished work (price reduced in exchange for acceptance) 3K. Addition of stock account or material supplied by state provision 3L. Revising safety work/measures desired by the County 3M. Other</p>
<p>4. Third Party Accommodation</p>	<p>4A. Failure of a third party to meet commitment 4B. Third party requested work 4C. Compliance requirements of new laws and/or policies (impacting third party) 4D. Other</p>
<p>5. Contractor Convenience</p>	<p>5A. Contractor exercises option to change the traffic control plan 5B. Contractor requested change in the sequence and/or method of work 5C. Payment for Partnering workshop 5D. Additional safety work/measures desired by the contractor 5E. Other</p>
<p>6. Untimely ROW/Utilities</p>	<p>6A. Right-of-Way not clear (third party responsibility for ROW) 6B. Right-of-Way not clear (County responsibility for ROW) 6C. Utilities not clear 6D. Other</p>

Williamson County Road Bond Program

**Ronald Reagan Boulevard Widening
Williamson County Project No. 24IFB57**

Change Order No. 6

Reason for Change

This Change Order adds drainage items and adjusts quantities for the installation of a temporary culvert underneath the roadway just south of Kauffman Loop per RFI 42. This Change Order also compensates the Contractor for replacing an inlet with a safety end treatment and grading per RFI 74. This Change Order also adds items to the Contract for the installation of a concrete cap, and temporary construction crossing over the Enterprise gas lines per Enterprise requirements and stated in the Letter of No Objection (LONO). Lastly, this Change Order adds an item for a monthly rate for an additional message board was needed for Kauffman Loop. This will also allow for use on an as needed basis in the future.

Following is a summary of new items required for this Change Order.

ITEM	DESCRIPTION	UNIT	QUANTITY
400-6008	CUT & RESTORE ASPH PAVING	SY	28.00
422-WC01	ENTERPRISE CROSSING LID (145' X 10')	CY	65.00
460-6005	CMP (GAL STL 36 IN)	LF	68.00
467-6110	SET (TY I)(S=3 FT)(HW=3 FT)(6:1)(P)	EA	1.00
467-6441	SET (TY II) (36 IN) (CMP) (4:1) (C)	EA	1.00
WC-001	PURCHASE, HAUL, PLACE, REMOVE CRANE MATS	EA	8.00
WC-002	PORTABLE CHANGEABLE MESSAGE SIGN	MO	10.00

This Change Order results in a net increase of \$12,886.00 to the Contract amount, for an adjusted Contract total of \$52,482,748.50. The original Contract amount was \$52,159,299.00. As a result of this and all Change Orders to-date, \$323,449.50 has been added to the Contract, resulting in a 0.62% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

HNTB Corporation

Oscar Salazar-Bueno, P.E.

Change Order Worksheet

Contract Name	Ronald Reagan Blvd. Widening	Solicitation #	24IFB57	
Date awarded	7/16/2024			
Awarded Contract Amount		\$52,159,299.00		
			Percentage Change	
Change Order #1		\$145,428.00	0.28%	
Change Order #2		\$29,362.00	0.06%	
Change Order #3		\$28,962.50	0.06%	
Change Order #4		\$90,550.00	0.17%	
Change Order #5		\$16,261.00	0.03%	
Change Order #6		\$12,886.00	0.02%	
Total changes to date		<hr/>	<hr/>	
		\$323,449.50	0.62%	
Adjusted contract amount		\$52,482,748.50		(Running totals here)



P.O. Box 1057
Round Rock, TX 78680
(512) 244-0600
Fax (512) 244-6085

24080 - Ronald Reagan Blvd.Widening
CP 016 - RFI 74 - Added SET

8/11/2025

BID ITEM	DESCRIPTION	QTY	UNIT	TOTAL
1	SET (TY I) (S=3 FT) (HW = 3 FT) (6:1) (P)	1	EA	\$ 16,000.00
TOTAL PROPOSAL				\$ 16,000.00

This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!



P.O. Box 1057
Round Rock, TX 78680
(512) 244-0600
Fax (512) 244-6085

24080 - Ronald Reagan Blvd. Widening
Change Proposal 015

8/11/2025

BID ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	Purchase, Haul, Place and Remove Crane Mats for crossing -WC-001	8	EA	\$1,683.00	\$ 13,464.00
2	Enterprise Crossing Lid (145' x 10') - 422-WC01	65	CY	\$715.00	\$ 46,475.00

TOTAL PROPOSAL					\$ 59,939.00
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This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!



P.O. Box 1057
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Fax (512) 244-6085

24080 - Ronald Reagn Blvd.Widening
CP 14 - MONTHLY MESSAGE BOARD

7/17/2025

BID ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
1	PORTABLE CHANGEABLE MESSAGE SIGN	10*	MO	\$1,500.00	\$ 15,000.00

TOTAL PROPOSAL	\$ 15,000.00
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***The quantities are approximate and provided for reference only. Final quantities shall be determined based on the actual scope and execution of work performed.**

This quotation is good for 30 days. If you have any question, please call our office at 512-244-0600.

Thank you for your business!



Scott Ambrus, Project Manager

RONALD REAGAN BLVD WIDENING JOB #24080

CP RFI 42

4/18/2025

DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
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SOV

400-6008	CUT & RESTORE ASPH PAVING	28	SY	\$250.00	\$7,000.00 ✓
460-6005	CMP (GAL STL 36 IN)	68	LF	\$240.00	\$16,320.00 ✓
467-6441	SET (TY II) (36 IN) (CMP) (4:1) ©	1 2	EA	\$7,200.00 ✓	\$14,400.00 \$7,200.00
512-6001	PORT CTB (FUR & INST) (SGL SLOPE) (TY 1)	240	LF	\$20.00	\$4,800.00
512-6025	PORT CTB (MOVE) (SGL SLP) (TY 1)	240	LF	\$19.00	\$4,560.00
512-6040	PORT CTB (REMOVE) (SGL SLP) (TY 1)	240	LF	\$18.00	\$4,320.00
545-6003	CRASH CUSH ATTEN (MOVE & RESET)	1	EA	\$2,500.00	\$2,500.00
545-6005	CRASH CUSH ATTEN (REMOVE)	1	EA	\$800.00	\$800.00
545-6019	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	1	EA	\$12,000.00	\$12,000.00
662-6004	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	300	LF	\$2.75	\$825.00
662-6034	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	360	LF	\$1.10	\$396.00
					\$67,921.00

~~\$60,721.00~~



Highlighted are existing bid prices.

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GENERAL	
1	TITLE SHEET
2 - 3	SUPPLEMENTAL INDEX
4 - 5	PROJECT LAYOUT
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172	ROADWAY PLAN & PROFILE - KAUFFMAN LOOP
173	ROADWAY PLAN & PROFILE - SANTA RITA BLVD
174	ROADWAY PLAN & PROFILE - FIRE STATION
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176	ROADWAY PLAN & PROFILE - TOWER ROAD
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383	INTERIOR BENT NO. 5
384	INTERIOR BENT NOS. 6 & 7
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387	FRAMING PLAN (SPANS 3 & 4)
388	250.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 3 & 4)
389	FRAMING PLAN (SPANS 5-7)
390	265.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 5-7)
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391	BRIDGE LAYOUT
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393	ABUTMENT NO. 1
394	ABUTMENT NO. 3
395	MISCELLANEOUS ABUTMENT DETAILS
396	INTERIOR BENT NO. 2
397	FRAMING PLAN (SPANS 1 & 2)

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

Andrea Kleinski, P.E. 02/21/2025
 Signature of Registrant & Date

⚠	RFI #42	ANK	2/20/25
⚠	RFI 44	ANK	1/31/25
⚠	RFI #3	CAS	10/24
⚠	RFI #2	CAS	10/24
NO.	REVISION	BY	DATE

			
RONALD REAGAN BLVD.			
SUPPLEMENTAL INDEX			
Designed:	ANK	FED. RD. DIV. NO. X	STATE TEXAS
Checked:	ANK	DIST.	COUNTY WILLIAMSON
Drawn:	ANK	CONTROL NO.	SECTION NO.
Checked:	ANK	JOB NO.	SHEET NO. 2

SUMMARY OF WORKZONE TRAFFIC CONTROL ITEMS		0400	0460	0467	0512	0512	0512	0545	0545	0545	0662	0662	0662	0677	0677	0677	0677	0677	6001	6185	6185
SHT NO.	LOCATION	CUT & RESTORE ASPH PAVING	CMP (GAL STL 36 IN)	SET (TY II) (36 IN) (CMP) (4: 1) (C)	PORT CTB (FUR & INST)(SGL SLOPE)(TY 1)	PORT CTB (MOVE)(SGL SLP)(TY 1)	PORT CTB (REMOVE)(SGL SLP)(TY 1)	CRASH CUSH ATTEN (MOVE & RESET)	CRASH CUSH ATTEN (REMOVE)	CRASH CUSH ATTEN (INSTL)(S)(N) (TL3)	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	ELIM EXT PAV MRK & MRKS (4")	ELIM EXT PAV MRK & MRKS (8")	ELIM EXT PAV MRK & MRKS (12")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)	TMA (MOBILE OPERATION)
		SY	LF	EA	LF	LF	LF	EA	EA	EA	LF	LF	LF	LF	LF	LF	EA	EA	EA	DAY	HR
	RONALD REAGAN BLVD.																				
PHASE 0A	BEGIN PROJECT TO STA 2425+00	14	39	1	240			1		1			360								
PHASE 0B	BEGIN PROJECT TO STA 2425+00	14	29	1							300										
PHASE 1A (SHEET 1 OF 25)	BEGIN PROJECT TO STA 2425+00				790	240		1													
PHASE 1A (SHEET 2 OF 25)	2425+00 TO STA 2445+00				660			1													
PHASE 1A (SHEET 3 OF 25)	2445+00 TO STA 2465+00																				
PHASE 1A (SHEET 4 OF 25)	2465+00 TO STA 2485+00																				
PHASE 1A (SHEET 5 OF 25)	2485+00 TO STA 2505+00																				
PHASE 1A (SHEET 6 OF 25)	2505+00 TO STA 2525+00																				
PHASE 1A (SHEET 7 OF 25)	2525+00 TO STA 2545+00																				
PHASE 1A (SHEET 8 OF 25)	2545+00 TO STA 2565+00																				
PHASE 1A (SHEET 9 OF 25)	2565+00 TO STA 2585+00																				
PHASE 1A (SHEET 10 OF 25)	2585+00 TO STA 2605+00				300																
PHASE 1A (SHEET 11 OF 25)	2605+00 TO STA 2625+00				90																
PHASE 1A (SHEET 12 OF 25)	2625+00 TO STA 2645+00																				
PHASE 1A (SHEET 13 OF 25)	2645+00 TO STA 2665+00																				
PHASE 1A (SHEET 14 OF 25)	2665+00 TO STA 2685+00				910																
PHASE 1A (SHEET 15 OF 25)	2685+00 TO END PROJECT				1,145																
PHASE 1A (SHEET 16 OF 25)	FM 3405				175																
PHASE 1A (SHEET 17 OF 25)	KAUFFMAN LOOP												20	1,130							
PHASE 1A (SHEET 18 OF 25)	EAST SANTA RITA BLVD													1,090	140	12	2	1			
PHASE 1A (SHEET 19 OF 25)	TOWER RD													1,690							
PHASE 1A (SHEET 20 OF 25)	CR 258													1,030	300						
PHASE 1A (SHEET 21 OF 25)	SH 29				900		900	2	2		790	12	1,030								
PHASE 1B (SHEET 22 OF 25)	KAUFFMAN LOOP					60		1	1				20	1,130							
PHASE 1B (SHEET 23 OF 25)	EAST SANTA RITA BLVD					180		2	2				16	1,090							
PHASE 1B (SHEET 24 OF 25)	TOWER RD					60		1	1				24	1,690							
PHASE 1B (SHEET 25 OF 25)	CR 258					90		1	1		1,033	15	1,415								
PHASE 2A (SHEET 1 OF 16)	BEGIN PROJECT TO STA 2425+00					690	1,030	1	1												
PHASE 2A (SHEET 2 OF 16)	2425+00 TO STA 2445+00					570	660	1	2												
PHASE 2A (SHEET 3 OF 16)	2445+00 TO STA 2465+00																				
PHASE 2A (SHEET 4 OF 16)	2465+00 TO STA 2485+00								3												
PHASE 2A (SHEET 5 OF 16)	2485+00 TO STA 2505+00							1	1												
PHASE 2A (SHEET 6 OF 16)	2505+00 TO STA 2525+00						720						800								
PHASE 2A (SHEET 7 OF 16)	2525+00 TO STA 2545+00												800								
PHASE 2A (SHEET 8 OF 16)	2545+00 TO STA 2565+00							1	2												
PHASE 2A (SHEET 9 OF 16)	2565+00 TO STA 2585+00					870	870	1	1						270		30				
PHASE 2A (SHEET 10 OF 16)	2585+00 TO STA 2605+00					180	180	1							800		80				
PHASE 2A (SHEET 11 OF 16)	2605+00 TO STA 2625+00																				
PHASE 2A (SHEET 12 OF 16)	2625+00 TO STA 2645+00																				
PHASE 2A (SHEET 13 OF 16)	2645+00 TO STA 2665+00																				
PHASE 2A (SHEET 14 OF 16)	2665+00 TO END PROJECT					262	302	1	1						840		90				
PHASE 2A (SHEET 15 OF 16)	FM 3405					280	850		4						376						
PHASE 2A (SHEET 16 OF 16)	2485+00 TO STA 2505+00					238	238	1	1												
	RONALD REAGAN SUBTOTAL	28	68	2	6,230	5,820	6,230	17	20	20	2,123	131	10,625	4,186	140	212	2	1	2	500	50

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1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE



WILCO
TEXAS



ATG ALLIANCE
TRANSPORTATION GROUP
TBPE Firm Registration No. F-812
11701 Stonehollow Dr | Suite 100 | Austin, TX 78758
Phone: 512-821-2081 | Fax: 512-821-2085

RONALD REAGAN BLVD.
QUANTITY SUMMARY
TRAFFIC CONTROL

Designed:	ATG	FED. RD. DIV. NO.	X	STATE	TEXAS	FEDERAL AID PROJECT NO.	SEE TITLE SHEET	HIGHWAY NO.	TITLE SHEET
Checked:	ATG	DIST.	WILLIAMSON	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.	19

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LOC NO.	TCP PHASE	PLAN SHEET NUMBER	LOCATION	STA	TEST LEVEL	DIRECTION OF TRAFFIC (UNI/BI)	FOUNDATION PAD		BACKUP SUPPORT			CRASH CUSHION										
							PROPOSED MATERIAL	PROPOSED THICKNESS	DESCRIPTION	WIDTH	HEIGHT	AVAILABLE SITE LENGTH	MOVE / RESET		L	L	R	R	S	S		
													INSTALL	REMOVE							MOVE / RESET	FROM LOC. #
1	N/A	PP16	SB RONALD REAGAN BLVD	2553+90	TL-3	UNI	PER ATTENUATOR STD		T551 RAIL	12"	32"	62'	X								X	
2	0A	1 OF 1	SB RONALD REAGAN BLVD	2422+39	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
3	0B	1 OF 1	SB RONALD REAGAN BLVD	2422+44	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	2					X	
4	1A	2 OF 25	SB RONALD REAGAN BLVD	2431+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	3					X	
5	1A	4 OF 25	NB RONALD REAGAN BLVD	2465+84	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
6	1A	4 OF 25	SB RONALD REAGAN BLVD	2466+15	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
7	1A	4 OF 25	SB RONALD REAGAN BLVD	2479+95	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
8	1A	5 OF 25	SB RONALD REAGAN BLVD	2485+96	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
9	1A	6 OF 25	SB RONALD REAGAN BLVD	2508+83	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
10	1A	6 OF 25	SB RONALD REAGAN BLVD	2511+25	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
11	1A	9 OF 25	SB RONALD REAGAN BLVD	2565+47	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
12	1A	9 OF 25	SB RONALD REAGAN BLVD	2568+46	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
13	1A	10 OF 25	SB RONALD REAGAN BLVD	2587+67	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
14	1A	13 OF 25	SB RONALD REAGAN BLVD	2655+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
15	1A	14 OF 25	SB RONALD REAGAN BLVD	2665+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
16	1A	14 OF 25	WB FM 3405	2666+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
17	1A	14 OF 25	SB RONALD REAGAN BLVD	2667+51	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
18	1A	14 OF 25	SB RONALD REAGAN BLVD	2673+00	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
19	1A	16 OF 25	EB FM 3405	64+39	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
20	1A	21 OF 25	EB SH 29	17+53	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X	X							X	
21	1A	21 OF 25	WB SH 29	30+47	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
22	1B	22 OF 25	SB RONALD REAGAN BLVD	2431+06	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	4					X	
23	1B	22 OF 25	SB RONALD REAGAN BLVD	2432+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
24	1B	23 OF 25	NB RONALD REAGAN BLVD	2464+37	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	5					X	
25	1B	23 OF 25	SB RONALD REAGAN BLVD	2464+70	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	6					X	
26	1B	24 OF 25	SB RONALD REAGAN BLVD	2567+87	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	12					X	
27	1B	24 OF 25	SB RONALD REAGAN BLVD	2569+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'	X								X	
28	1B	25 OF 25	SB RONALD REAGAN BLVD	2589+21	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	13					X	
29	2A	1 OF 16	NB RONALD REAGAN BLVD	2418+11	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	22					X	
30	2A	2 OF 16	NB RONALD REAGAN BLVD	2427+40	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	23					X	
31	2A	5 OF 16	NB RONALD REAGAN BLVD	2487+91	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	8					X	
32	2A	7 OF 16	NB RONALD REAGAN BLVD	2531+58	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	10					X	
33	2A	9 OF 16	NB RONALD REAGAN BLVD	2565+05	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	26					X	
34	2A	9 OF 16	NB RONALD REAGAN BLVD	2572+79	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	27					X	
35	2A	10 OF 16	NB RONALD REAGAN BLVD	2586+60	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	28					X	
36	2A	13 OF 16	NB RONALD REAGAN BLVD	2662+30	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	14					X	
37	2A	15 OF 16	WB FM 3405	76+09	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'			X	21					X	
38	2B	16 OF 16	NB RONALD REAGAN BLVD	2487+91	TL-3	UNI	N/A	N/A	PCTB (SSCB TY1)	24"	42"	50'		X	X	31					X	
TOTALS												21	20									

LEGEND:
 L=LOW MAINTENANCE
 R=REUSABLE
 S=SACRIFICIAL
 N=NARROW
 W=WIDE

FOR DEFINITIONS SEE THE "CRASH CUSHION CATEGORIZATION CHART.PDF" AT THE DESIGN DIVISION (ROADWAY STANDARDS) WEBSITE. USE QUICK LINKS TO ACCESS ATTENUATORS / CRASH CUSHIONS SECTION.
<http://www.dot.state.tx.us/insdtdot/orgchart/cmd/cserve/standard/rdwylse.htm>

CRASH CUSHION SUMMARY SHEET

NO.	REVISION	BY	DATE
1	RFI #42	ATG	2/20/25

FILE: CCSS.dgn	DN: TxDOT	CK:	CK:
© TxDOT	CONT	SECT	JOB
REVISIONS	HIGHWAY		
	DIST	COUNTY	
	FEDERAL AID PROJECT		SHEET NO.
			29

GENERAL:

- 1) PRIOR TO COMMENCING CONSTRUCTION IN A PARTICULAR AREA, THE CONTRACTOR SHALL STRIP THE EXISTING TOPSOIL FROM THE AREA AND STOCKPILE IT IN A SAFE, OUT OF THE WAY LOCATION FOR LATER USE. SEDIMENT CONTROL FENCING SHALL BE PLACED AROUND ALL STOCKPILES OF TOPSOIL.
- 2) ACCESS TO ADJOINING PROPERTIES SHALL REMAIN OPEN AT ALL TIMES AND UNDER ALL WEATHER CONDITIONS. CONTRACTOR SHOULD WORK WITH PROPERTY OWNERS AS NEEDED.
- 3) THE PHASING DESCRIBED HEREIN IS HOW WORK COULD PROGRESS. IF A CONTRACTOR WISHES TO CHANGE THE ORDER OF THE PHASING AND/OR COMBINE PHASES, HE MAY BE ALLOWED TO DO SO. HOWEVER, ANY AND ALL CHANGES MUST BE SUBMITTED TO AND APPROVED BY THE ENGINEER.
- 4) THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
- 5) CONTRACTOR TO GIVE CITY OF GEORGETOWN A MINIMUM OF TWO WEEKS NOTICE FOR ALL WATERLINE SHUT DOWNS.
- 6) WATERLINE SHUT DOWNS SHALL ONLY BE PERFORMED DURING THE MONTHS OF DECEMBER, JANUARY, AND FEBRUARY. SHUT DOWNS NOT ALLOWED FROM MARCH THROUGH NOVEMBER.

PHASE 0:

THE INTENT OF THIS PHASE IS TO CONSTRUCT A TEMPORARY DRAINAGE PIPE IN TWO STEPS (AROUND STA 2420+00) UNDER EXISTING SOUTHBOUND CONNECTION.

- 1) PLACE SIGNING AND TRAFFIC CONTROL, INCLUDING PORTABLE CONCRETE TRAFFIC BARRIER (PCTB).
- 2) INSTALL EROSION CONTROL MEASURES.
- 3) CUT EXISTING PAVEMENT AND INSTALL PIPE IN TWO STEPS, BEGINNING DOWNSTREAM. RESTORE PAVEMENT. REFER TO TCP LAYOUT SHEET FOR DETAILS.
- 4) REGRADE DITCHES AS NEEDED TO DRAIN.

PHASE 1A:

THE INTENT OF THIS PHASE IS TO CONSTRUCT SOUTHBOUND RONALD REAGAN IN IT'S ENTIRETY, EXCEPT FOR THE FINAL DRIVING SURFACE AND THE RECONSTRUCTION OF PAVEMENT AT LOCATIONS WHERE ACCESS NEEDS TO BE MAINTAINED. REQUIRED WATER QUALITY PONDS SHALL BE CONSTRUCTED IN THIS PHASE. PERMANENT TRAFFIC SIGNALS SHALL BE CONSTRUCTED IN THIS PHASE. RIGHT TURN LANES ALONG SH 29 MAY ALSO BE CONSTRUCTED IN THIS PHASE. CONTRACTOR TO SATISFY ALL TEMPORARY TRAFFIC CONDITIONS AT SIGNALIZED INTERSECTIONS WITH PERMANENT TRAFFIC SIGNALS AND PEDESTRIAN ELEMENTS.

- 1) PLACE SIGNING AND TRAFFIC CONTROL, INCLUDING PORTABLE CONCRETE TRAFFIC BARRIER (PCTB).
- 2) INSTALL EROSION CONTROL MEASURES.
- 3) CONSTRUCT PROPOSED PAVEMENT, EXCLUDING THE FINAL DRIVING SURFACE. INCLUDE ALL SUBSURFACE WORK SUCH AS INSTALLATION OF TRAFFIC SIGNAL CONDUIT AND DRAINAGE STRUCTURES.
- 4) ADD LEVEL UP TO APPROX HALF (WEST SIDE) OF SB RONALD REAGAN, NEAR SH 29, FOR EXISTING PAVEMENT TIE IN (APPROX STA 2416+00 BL SBRR).
- 5) PLACE TOPSOIL AND SEEDING.

PHASE 1B:

THE INTENT OF THIS PHASE IS TO FINALIZE THE CONSTRUCTION OF SOUTHBOUND RONALD REAGAN AT LOCATIONS WHERE ACCESS NEEDED TO BE MAINTAINED IN THE PREVIOUS PHASE, COMPLETE PERMANENT TRAFFIC SIGNAL INSTALLATION, AND LAY THE FINAL ASPHALT DRIVING SURFACE.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 3) CONSTRUCT REMAINING PORTION OF CROSS STREETS AND FIRE STATION DRIVEWAY.
- 4) COMPLETE PERMANENT TRAFFIC SIGNAL INSTALLATION.

- 5) PLACE ADDITIONAL TOPSOIL AND SEEDING AS NEEDED.
- 6) INSTALL PERMANENT SIGNING.
- 7) LAY FINAL ASPHALT DRIVING SURFACE. THIS STEP INCLUDES THE FINAL SURFACE FOR ALL PAVEMENT CONSTRUCTED IN PHASE 1A.
- 8) APPLY FINAL STRIPING TO SOUTHBOUND RONALD REAGAN.
- 9) OPEN NEWLY CONSTRUCTED SOUTHBOUND ROADWAY. TRAFFIC MAY BE REDUCED TO ONLY ONE LANE AT EXISTING PAVEMENT TIE IN. (APPROX STA 2416+00 BL SBRR).
- 10) COMPLETE LEVEL UP NEAR SH 29 (APPROX STA 2416+00 BL SBRR) FOR EXISTING PAVEMENT TIE IN AND ADD STRIPING AS NEEDED.

PHASE 2A:

THE INTENT OF THIS PHASE IS TO WIDEN EXISTING NORTHBOUND RONALD REAGAN PAVEMENT IN SEVERAL LOCATIONS, REMOVE UNUSED PAVEMENT, AND CONSTRUCT HALF OF CROSS DRAINAGE CULVERT #3. SOUTHBOUND TRAFFIC SHOULD NOW BE TRAVELING ON THE NEWLY CONSTRUCTED SOUTHBOUND ROADWAY AND THE PERMANENT TRAFFIC SIGNALS SHOULD BE IN OPERATION.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) REMOVE CENTERLINE STRIPING AS NEEDED, SEE PLANS.
- 3) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 4) CONSTRUCT PROPOSED PAVEMENT.
- 5) OBLITERATE AND REMOVE UNUSED PAVEMENT (APPROX 2416+00 TO 2426+00 BL SBRR)
- 6) CONSTRUCT HALF OF THE CROSS DRAINAGE CULVERT #3. (APPROX 494+75 CL RREAGAN_EXIST).
- 7) REGRADE SIDE SLOPES AND DITCHES AS NEEDED.
- 8) PLACE TOPSOIL AND SEEDING AS NEEDED.

PHASE 2B:

THE INTENT OF THIS PHASE IS TO COMPLETE THE ADDITION OF CROSS DRAINAGE CULVERT #3.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL, INCLUDING PCTB.
- 2) ADJUST AND/OR ADD EROSION CONTROL MEASURES.
- 3) CONSTRUCT REMAINING PORTION OF CROSS DRAINAGE CULVERT #3.
- 4) REGRADE SIDE SLOPES AND DITCHES AS NEEDED.
- 5) PLACE TOPSOIL AND SEEDING AS NEEDED.

PHASE 3:

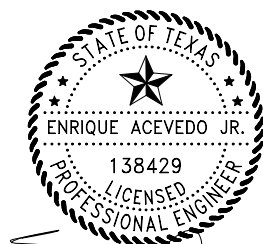
THE INTENT OF THIS PHASE IS TO OVERLAY AND STRIPE NORTHBOUND RONALD REAGAN.

- 1) ADJUST AND/OR ADD SIGNING AND TRAFFIC CONTROL.
- 2) PERFORM ANY FINAL GRADING OF SIDE SLOPES AND DITCHES.
- 3) OVERLAY NORTHBOUND ROADWAY.
- 4) STRIPE NORTHBOUND ROADWAY.

PHASE 4:

THE INTENT OF THIS PHASE IS TO FINALIZE AND CLOSE OUT THE PROJECT.


- 1) CONTRACTOR TO ADDRESS ANY FINAL PUNCH LIST ITEMS.
- 2) PERFORM ANY FINAL CLEAN UP WHICH MAY STILL BE NEEDED.
- 3) ONCE VEGETATION HAS BEEN ESTABLISHED TO THE SATISFACTION OF THE ENGINEER, REMOVE ANY REMAINING TEMPORARY EROSION CONTROL DEVICES.
- 4) REMOVE ALL REMAINING SIGNS, TRAFFIC CONTROL AND BARRICADES, IF ANY.




2/20/2025

Enrique Acevedo

1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE





TBPE Firm Registration No. F-812
11701 Stonehollow Dr | Suite 100 | Austin, TX 78758
Phone: 512-821-2081 | Fax: 512-821-2085

RONALD REAGAN BLVD.

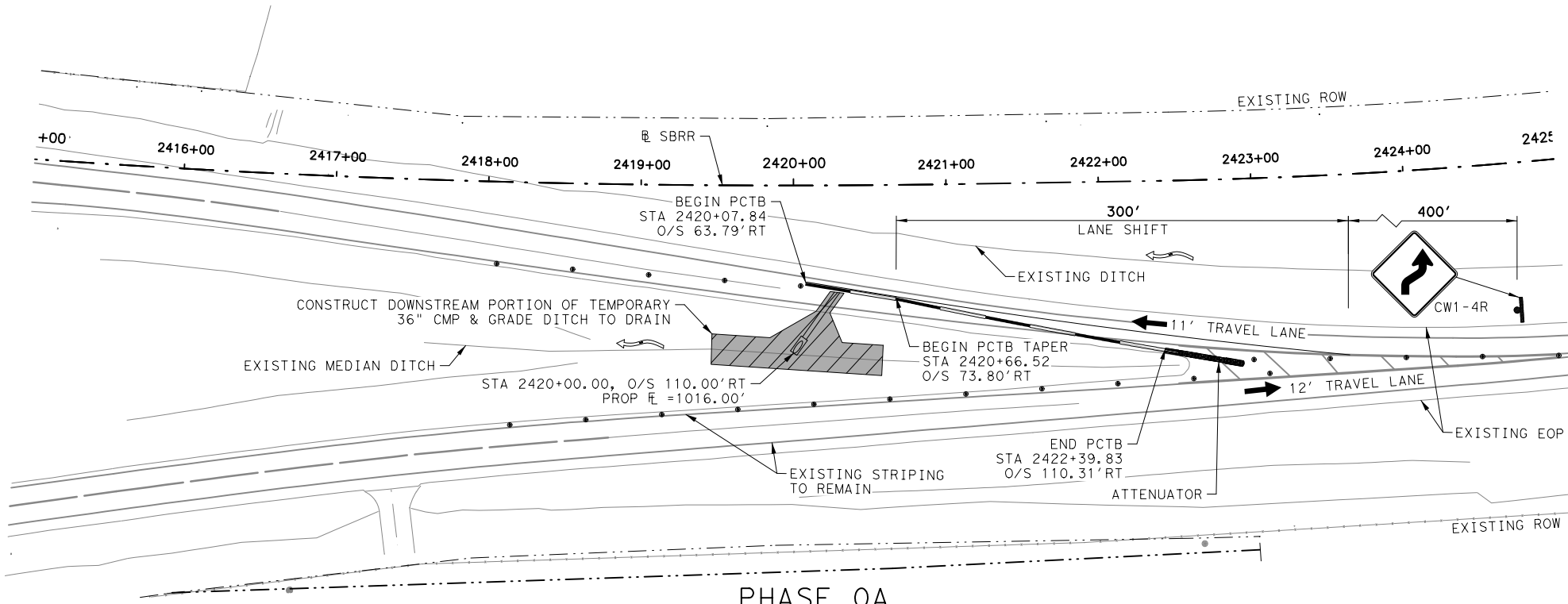
**TRAFFIC CONTROL PLAN
CONSTRUCTION PHASE NARRATIVE**

Designed: ATG	FED. RD. DIV. NO. X	STATE TEXAS	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: ATG	SEE TITLE SHEET			TITLE SHEET
Drawn: ATG	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked: ATG	WILLIAMSON		JOB NO.	SHEET NO. 40

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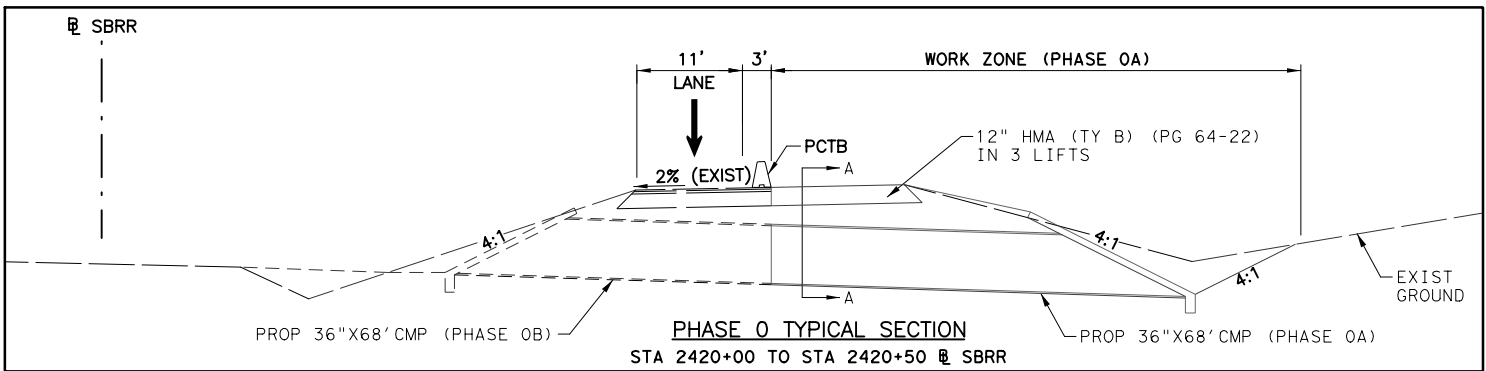
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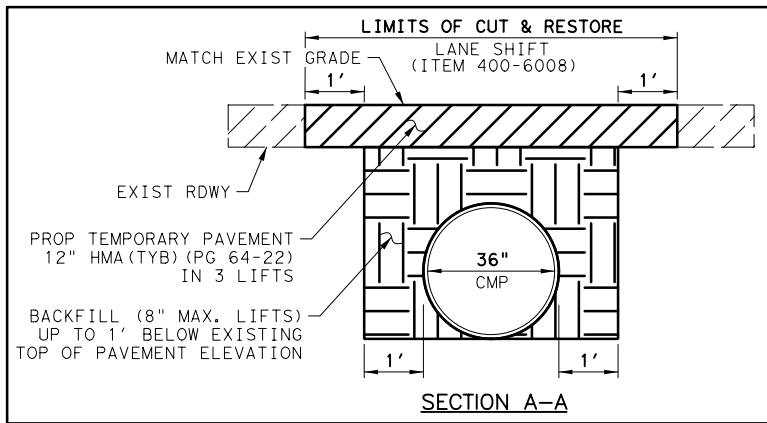
PHASE 0A

LEGEND

- (A) ELIM EXT PAVE MRK & MRKS 4"
- (B) ELIM EXT PAVE MRK & MRKS 12"
- TYPE III BARRICADE
- TRAFFIC DRUM
50' C-C ON TAPER
100' C-C ON TANGENT
- [Hatched Box] LEVEL UP
- [Cross-hatched Box] ASPHALT PAVEMENT REMOVAL
- [Stippled Box] CONCRETE RIPRAP
- [Solid Grey Box] PREVIOUSLY CONSTRUCTED
- [Diagonal Hatched Box] CONSTRUCTION THIS PHASE
- ATTENUATOR
- PORT CTB (SNGL SLOPE) (TY-1)
- TRAFFIC FLOW
- PROP EDGE OF ROADWAY
- EXISTING FEATURES
- PROP SIGN

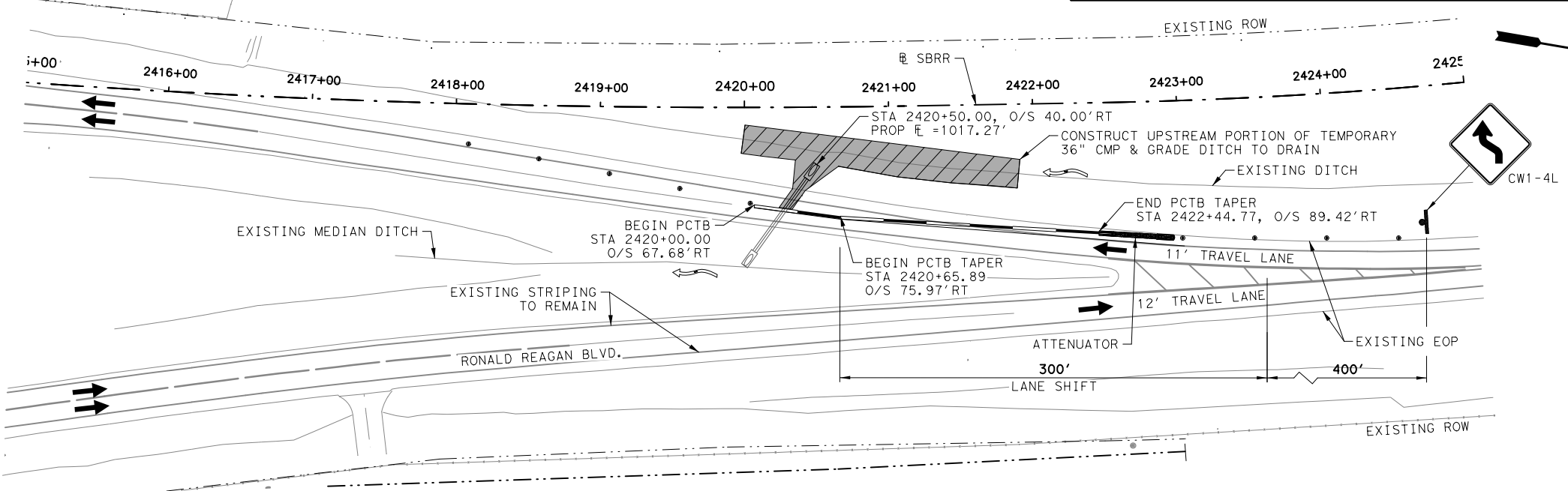


PHASE 0 TYPICAL SECTION
STA 2420+00 TO STA 2420+50 SBRR

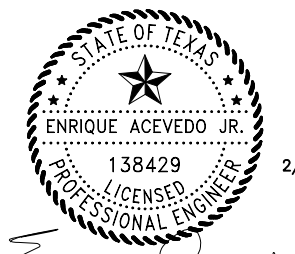


SECTION A-A

NOTE:
1. CONTRACTOR TO MAINTAIN EXISTING TRAFFIC CONTROL DEVICES DURING THIS PHASE TO SATISFY ALL TEMPORARY TRAFFIC CONTROL NEEDS. ANY EXISTING TRAFFIC CONTROL RELOCATION EFFORT TO BE SUBSIDIARY TO ITEM 502 6001.



PHASE 0B



Enrique Acevedo

1	RFI #42	ATG	2/18/25
NO.	REVISION	BY	DATE



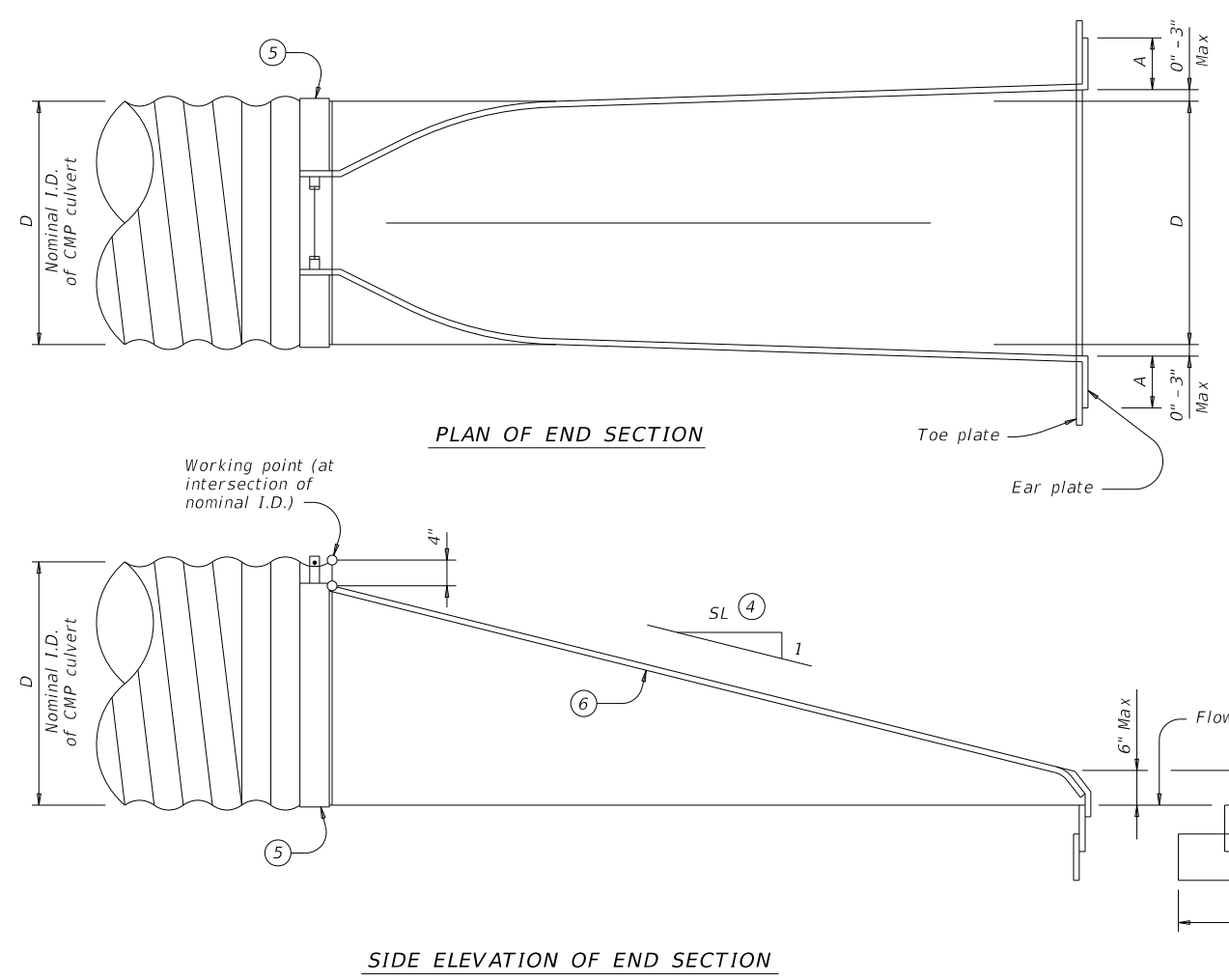
RONALD REAGAN BLVD.
TCP LAYOUT SHEET
PHASE 0

Designed:	ATG	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked:	ATG	X	TEXAS	SEE TITLE SHEET	TITLE SHEET
Drawn:	ATG	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	ATG		WILLIAMSON		44A

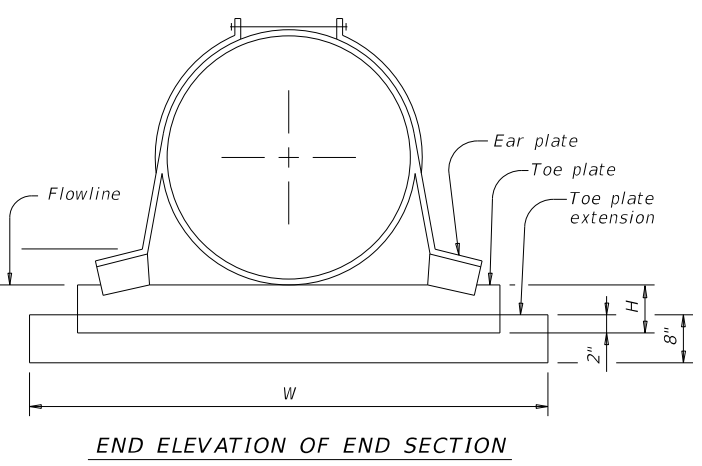
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DATE: FILE:

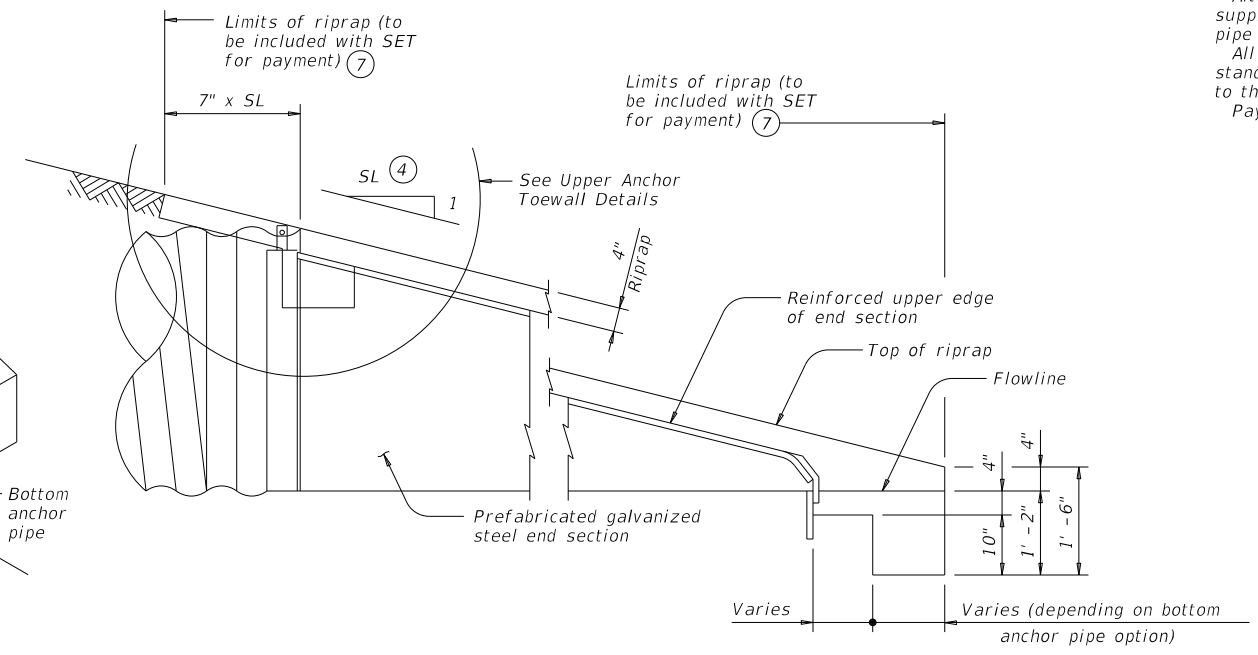
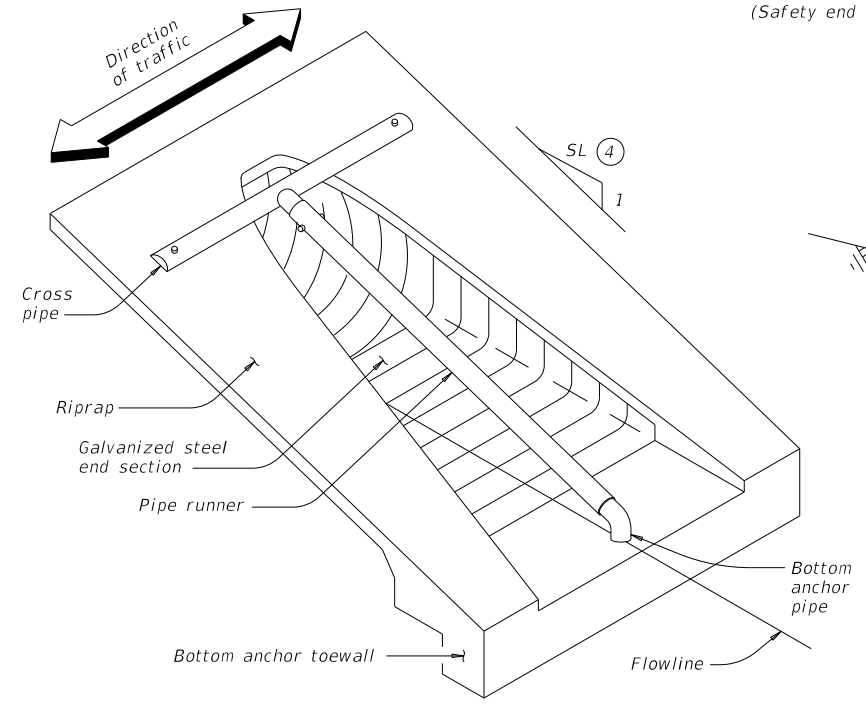


- Provide size of pipe runner as shown in the tables. Cross pipe is the same size as the pipe runner. Cross pipe stub out and bottom anchor pipe are the next smaller size pipe as shown in the Standard Pipe Sizes and Max Pipe Runner Length table.
- Values shown are minimum requirements.
- Provide all 3-piece apron sections with 12 gage sides and 10 gage center panels.
- Recommended values of slope are 3:1, 4:1, and 6:1. All quantities, calculations, and dimensions shown herein are based on these recommended values. Slope of 3:1 or flatter is required for vehicle safety.
- Connection between corrugated metal pipe (CMP) culvert and galvanized prefabricated end section may be with strap and bolt as shown or other combinations of threaded rods and/or coupling bands.
- Reinforce upper edge of prefabricated end section with minimum 3/8" dia smooth or deformed bar (pre-galvanized).
- Riprap placed beyond the limits shown will be paid as concrete riprap in accordance with Item 432, "Riprap."



PREFABRICATED GALVANIZED STEEL END SECTION DETAILS

(Safety end treatment and riprap not shown for clarity.)



SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

(Pipe runners are not shown for clarity.)

CROSS PIPE LENGTHS, PIPE RUNNER LENGTHS, AND REQUIRED PIPE SIZES

D (Nominal) (Culvert I.D.)	Cross Pipe Length	3:1 Side Slope		4:1 Side Slope		6:1 Side Slope	
		Pipe Runner Length	Pipe Runner Size	Pipe Runner Length	Pipe Runner Size	Pipe Runner Length	Pipe Runner Size
≤ 24"	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30"	3' - 11"	5' - 0"	3.500 x 0.216	7' - 1"	3.500 x 0.216	11' - 3"	4.500 x 0.237
36"	4' - 5"	6' - 7"	3.500 x 0.216	9' - 2"	3.500 x 0.216	14' - 4"	4.500 x 0.237
42"	4' - 11"	8' - 2"	3.500 x 0.216	11' - 2"	4.500 x 0.237	17' - 4"	4.500 x 0.237
48"	5' - 5"	9' - 9"	3.500 x 0.216	13' - 3"	4.500 x 0.237	20' - 4"	5.563 x 0.258
54"	5' - 11"	11' - 3"	4.500 x 0.237	15' - 4"	4.500 x 0.237	23' - 5"	5.563 x 0.258
60"	6' - 5"	12' - 10"	4.500 x 0.237	17' - 4"	4.500 x 0.237	26' - 5"	5.563 x 0.258

PREFABRICATED END SECTION INFORMATION

D (Nominal) (Culvert I.D.)	Pipe Runner Required	H	A	W	Gage
≤ 24"	No	6"	9"	D + 24"	16
30"	Skew > 15°	9"	12"	D + 32"	14
36"	All skews	9"	12"	D + 32"	14
≥ 42"	All skews	12"	16"	D + 40"	12/10

STANDARD PIPE SIZES AND MAX PIPE RUNNER LENGTH

HSS Size	STD Size	Max Pipe Runner Length
2.375 x 0.154	2"	N/A
3.500 x 0.216	3"	10' - 0"
4.500 x 0.237	4"	19' - 8"
5.563 x 0.258	5"	34' - 2"

MATERIAL NOTES:

Provide pipe runners, cross pipes, and anchor pipes conforming to ASTM A1085, A500 Gr B, A53 (Type E or S, Gr B), or API 5LX52.
 Provide ASTM A307 bolts and nuts.
 Galvanize all steel components, except reinforcement, after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specification.
 Toe plate extensions are required only when shown elsewhere in the plans.
 Concrete riprap is required only when pipe runners are required, unless otherwise shown in the plans. Provide concrete riprap in accordance with Item 432, "Riprap." Use Bottom Anchor Toewall Option B1 when an alternate end section with pre-attached pipe runners is supplied.
 Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of reinforcing steel in concrete riprap unless noted otherwise.

GENERAL NOTES:

Safety end treatments (SET) shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the pipe runners.
 Pipe runners are designed for a traversing load of 1,800 pounds at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures," Texas Transportation Institute, March 1981.
 Alternate styles of end sections, including those with pre-attached pipe runners, may be supplied. Alternate styles must meet all of the following: design values shown in tables for pipe runner size; H, A, W, and gage for end section; and material requirements noted.
 All pipe runners, calculations, and dimensions are based on the End Section shown on this standard. Alternate styles of end sections will require that appropriate adjustments be made to the values presented on this standard.
 Payment for riprap and toewall is included in price bid for each safety end treatment.

SHEET 1 OF 2

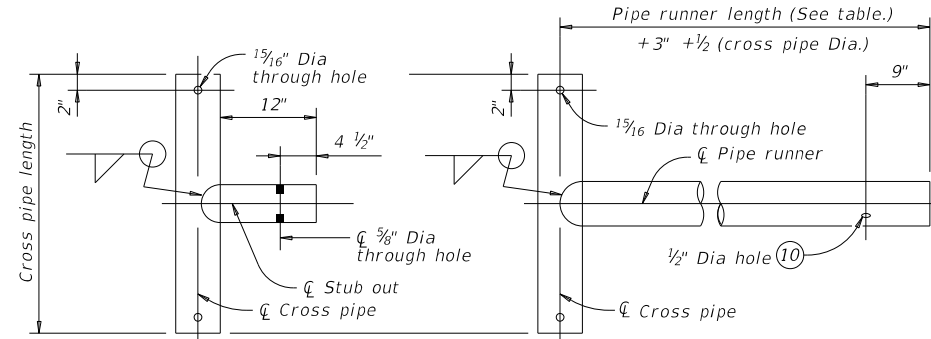
Texas Department of Transportation Bridge Division Standard

PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA CMP CULVERTS TYPE II ~ CROSS DRAINAGE GS-ES-CD

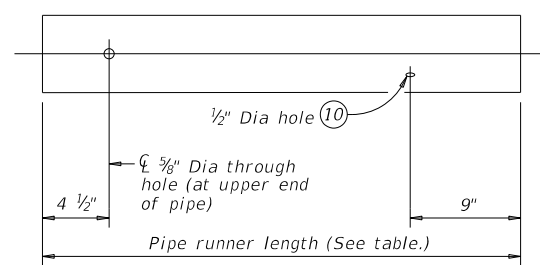
FILE: TxDOT	DN: TxDOT	CK: TxDOT	DW: JRP	CK: GAF
©TxDOT February 2020	CONTRACT	SECT	JOB	HIGHWAY
REVISIONS		DIST	COUNTY	SHEET NO.
				108A

NO.	REVISION	BY	DATE
1	RFI #42	ATG	2/20/25

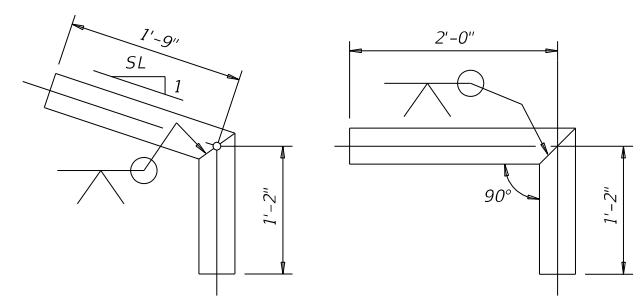
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.



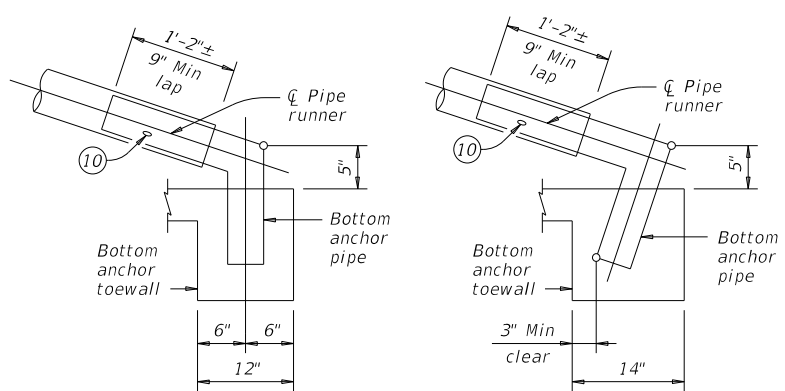
OPTION A1 **OPTION A2**
CROSS PIPE AND CONNECTIONS DETAILS



PIPE RUNNER DETAILS

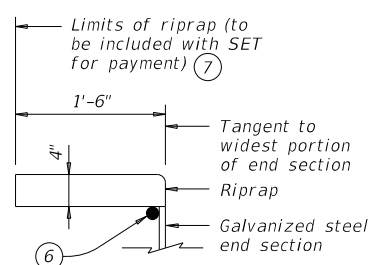


OPTION B1 **OPTION B2**
BOTTOM ANCHOR PIPE DETAILS

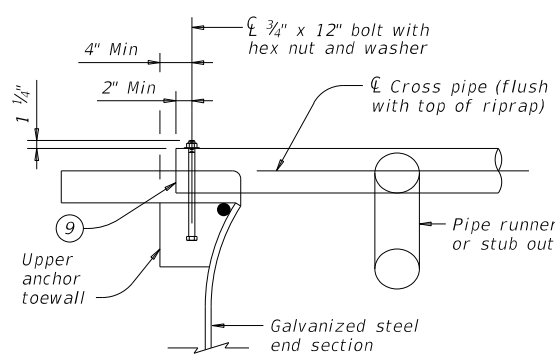


OPTION B1 **OPTION B2**
BOTTOM ANCHOR TOEWALL DETAILS

(End section and riprap are not shown for clarity.)

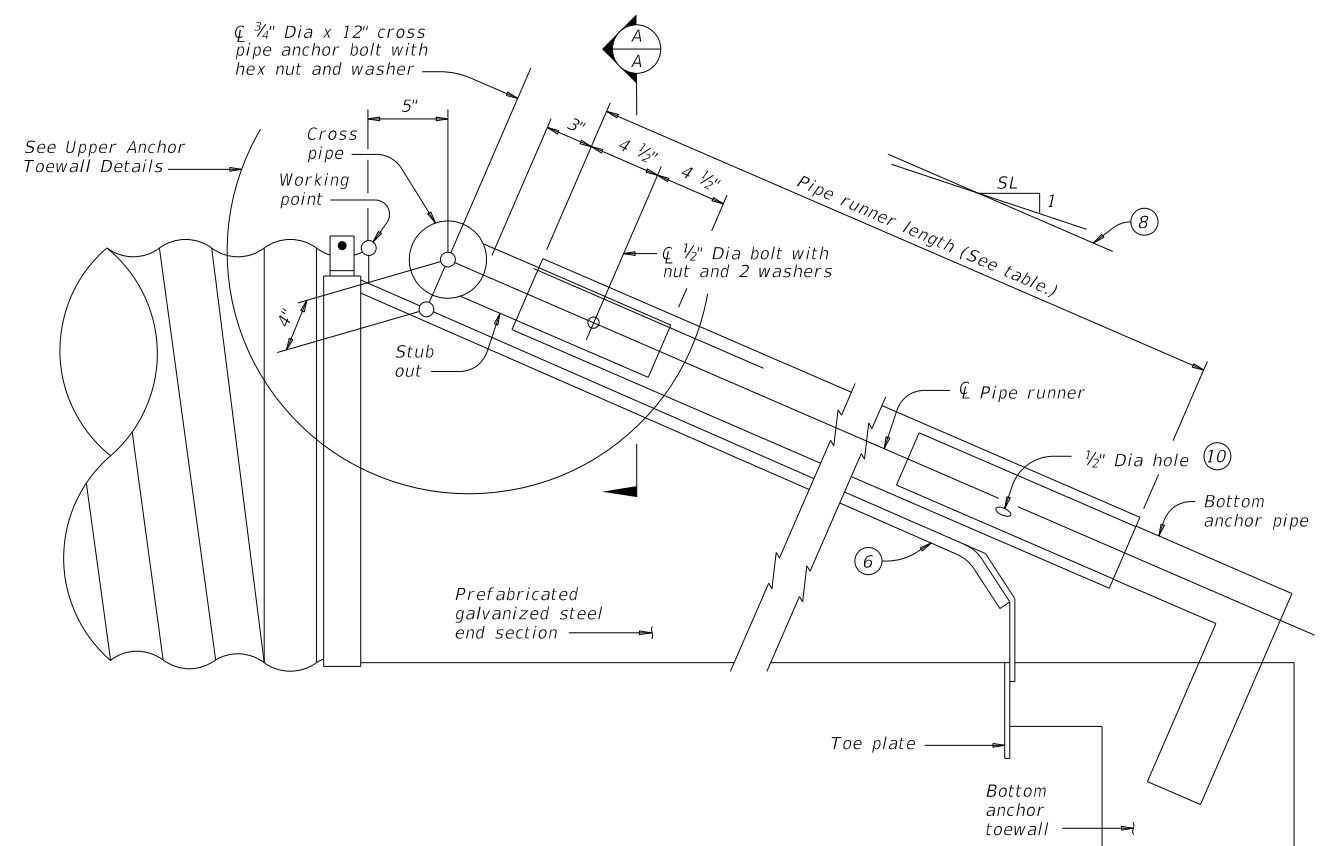


SHOWING TYPICAL RIPRAP



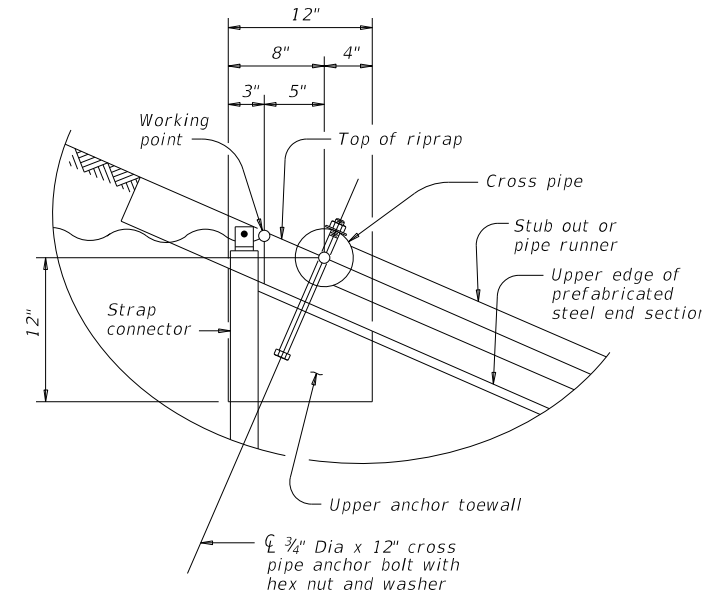
SHOWING CROSS PIPE AND UPPER ANCHOR TOEWALL

SECTION A-A



SIDE ELEVATION OF PIPE RUNNER INSTALLATION

(Showing pipe runner with Cross Pipe Connection Option A1 and Bottom Anchor Pipe Option B2. Riprap not shown for clarity.)



UPPER ANCHOR TOEWALL DETAILS

ESTIMATED CONCRETE RIPRAP QUANTITIES (CY)

Nominal Culvert I.D.	3:1 Side Slope	4:1 Side Slope	6:1 Side Slope
12"	0.5	0.6	0.9
15"	0.6	0.7	1.0
18"	0.6	0.8	1.1
21"	0.7	0.8	1.2
24"	0.7	0.9	1.3
27"	0.8	1.0	1.4
30"	0.9	1.1	1.5
33"	0.9	1.1	1.6
36"	1.0	1.2	1.7
42"	1.1	1.4	1.9
48"	1.2	1.5	2.1
54"	1.3	1.7	2.3
60"	1.5	1.8	2.6

- ⑥ Reinforce upper edge of prefabricated end section with minimum 3/8" dia smooth or deformed bar (pre-galvanized).
- ⑦ Riprap placed beyond the limits shown will be paid as concrete riprap in accordance with Item 432, "Riprap."
- ⑧ Note that actual slope of pipe runner may vary slightly from side slope of riprap and upper edge of prefabricated end section.
- ⑨ Take care to ensure that riprap concrete does not flow into the cross pipe so as to permit disassembly of the bolted connection to allow cleanout access.
- ⑩ After installation, inspect the 3/8" hole to ensure that the lap of the pipe runner with the bottom anchor pipe is adequate.
- ⑪ At fabricator's option, a heat bend to a smooth 5" radius or a manufactured elbow (of the same material as the runner) may be substituted for the mitered and welded joint in the bottom anchor pipe.
- ⑫ Quantities shown are for one end of one corrugated metal pipe (CMP) culvert. For multiple pipe culverts quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

SHEET 2 OF 2

Texas Department of Transportation **Bridge Division Standard**

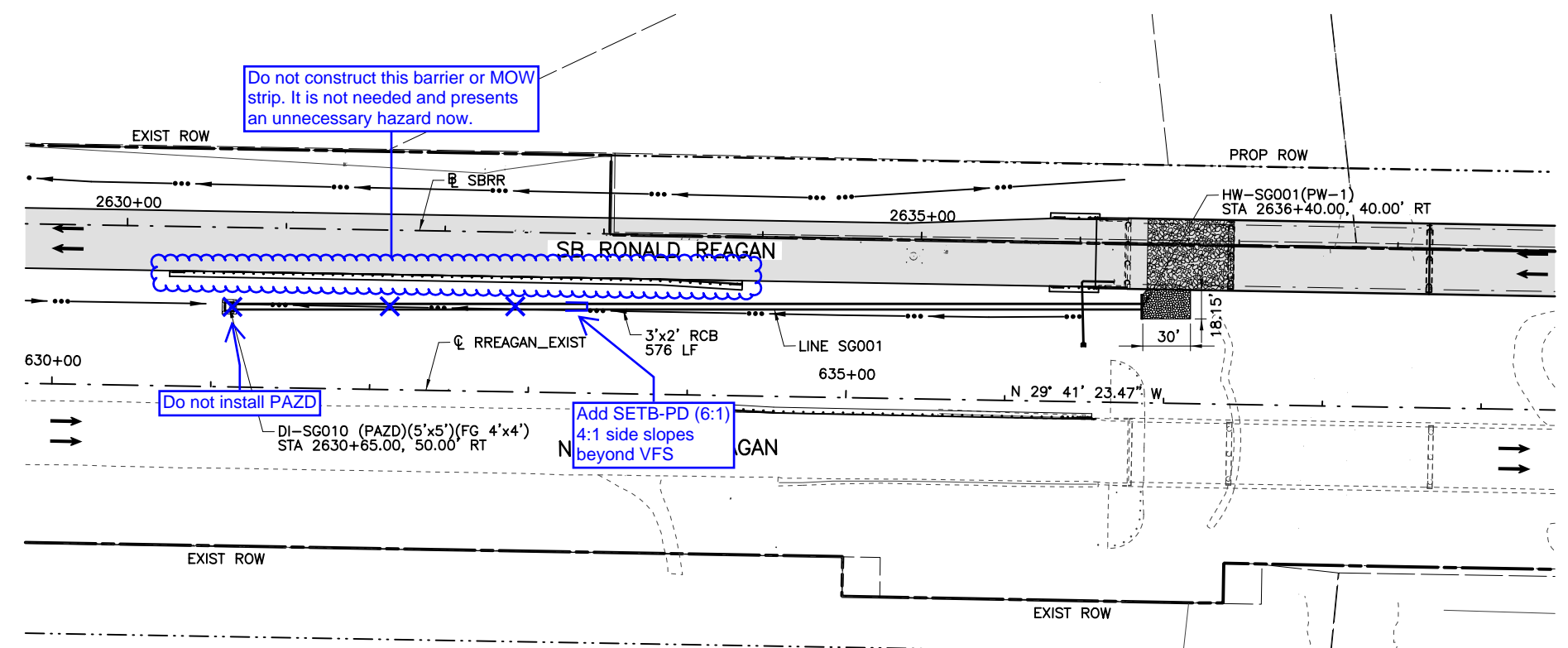
PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA CMP CULVERTS TYPE II ~ CROSS DRAINAGE GS-ES-CD

FILE: ©TxDOT February 2020 REVISIONS	DN: TxDOT	CK: TxDOT	DW: JRP	CK: GAF
NO.	REVISION	BY	DATE	
1	RFI #42	ATG	2/20/25	

CONTRACT	SECTION	JOB	HIGHWAY
DIST	COUNTY	SHEET NO.	
			108B

DATE: FILE:

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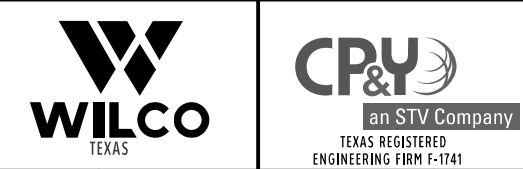
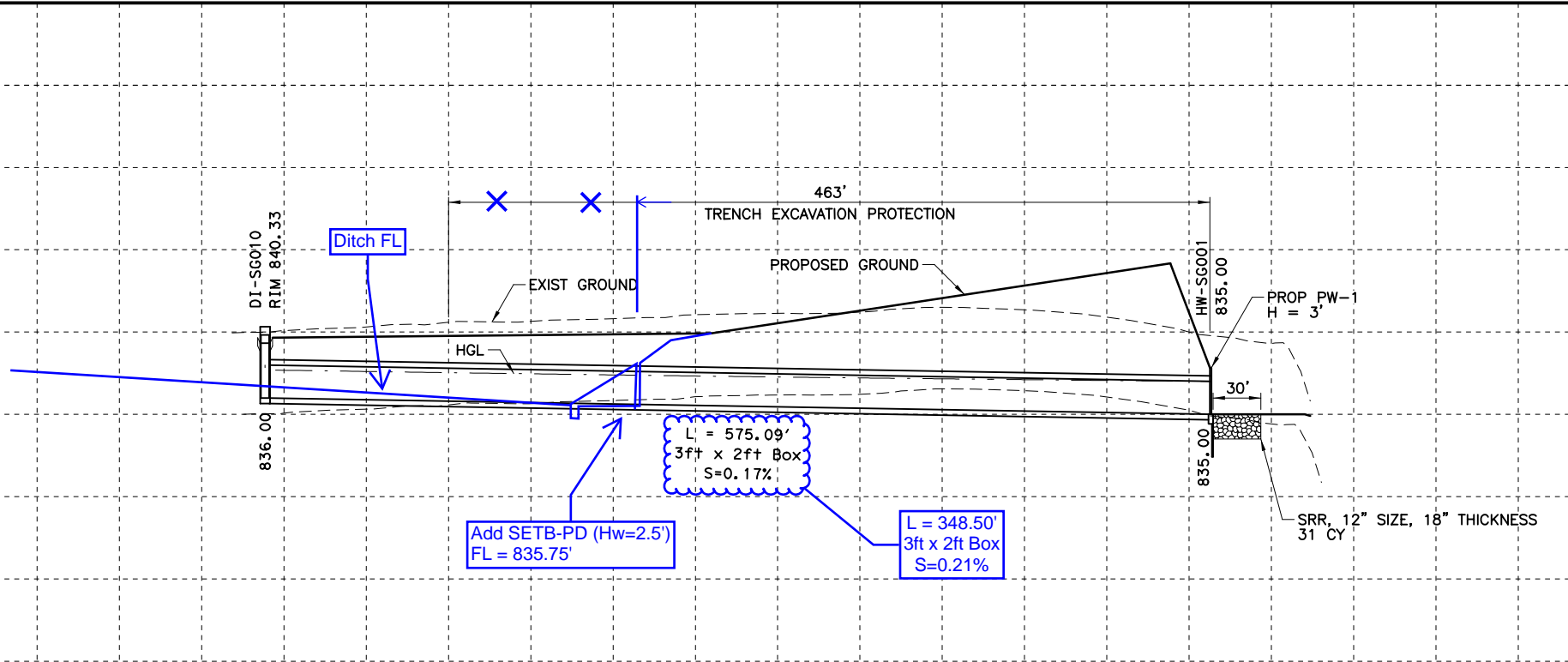


Cross sections show FG of ditch to be +/-837.07
 With rim elevation of 840.33 minus 1.25' of opening and box lid
 that puts FL IN at 839.08, 2ft above the ditch FL.

Contractor's notes are in RED.

Engineer's notes are in BLUE.

- NOTES:
1. ALL STATIONS AND OFFSETS ARE BASED OFF OF SBRR UNLESS OTHERWISE NOTED.
 2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR DITCH LIMITS AND DETAILS.
 3. ALL LOCATIONS FOR CURB INLETS ARE SHOWN AT THE FACE OF CURB
 4. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO THE CENTER POINT OF THE INLET BOX OR MANHOLE STACK, UNLESS OTHERWISE NOTED.
 5. ALL JUNCTIONS (WYES, TEES, BENDS) SHALL BE SUBSIDIARY TO PERTINENT ITEM UNLESS OTHERWISE NOTED.
 6. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
 7. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE



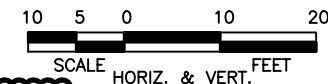
RONALD REAGAN BLVD.
STORM SEWER PLAN & PROFILE
 NORTH FORK SAN GABRIEL RIVER MEDIAN

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		
				JOB NO. SHEET NO.
				303

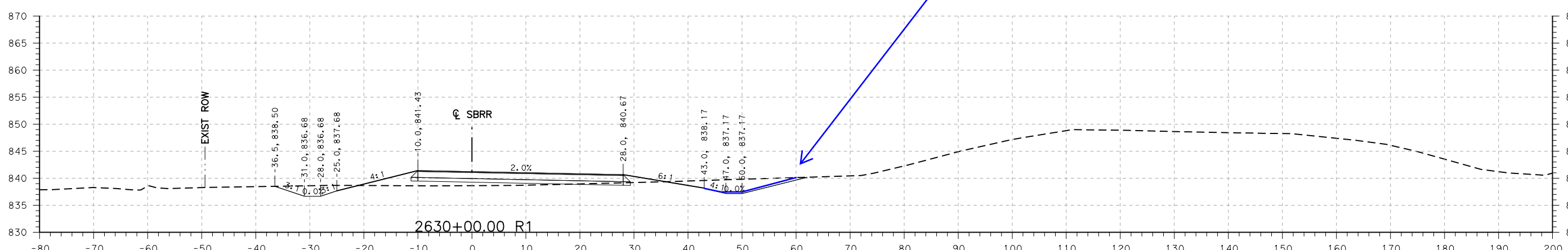
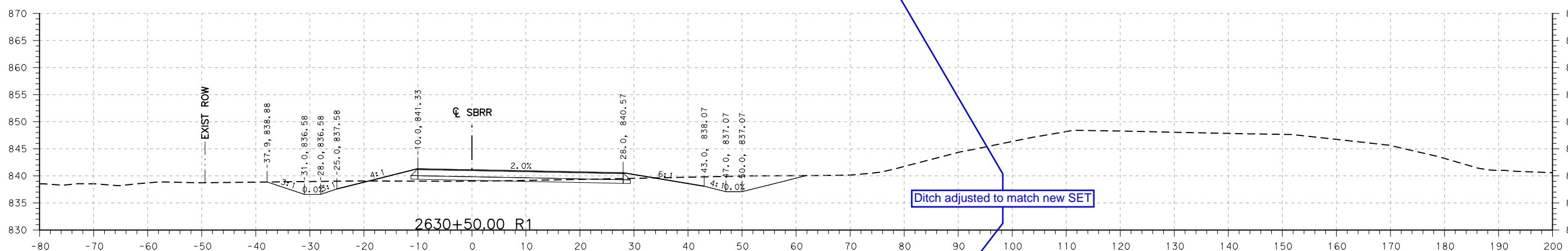
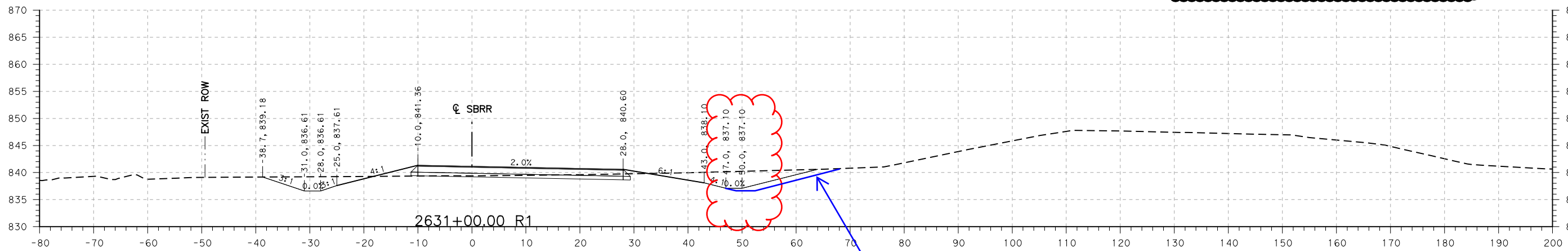


Andrea Klocinski
06/10/2024

STA. 2630+00.00 R1 TO STA. 2631+00.00 R1



Contractor's notes are in **RED**.
Engineer's notes are in **BLUE**.



TEXAS REGISTERED ENGINEERING FIRM F-1741



Williamson
COUNTY
1848

RONALD REAGAN BLVD
RONALD REAGAN CROSS SECTIONS

Designed: -	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: -	X	TEXAS		
Drawn: -	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked: -	AUS	WILLIAMSON		
				JOB NO.
				SHEET NO.
				875

SHEET 194 OF 234

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SUMMARY OF DRAINAGE ITEMS																						
LOCATION	401	402	432	462	462	464	464	464	464	464	465	465	465	465	465	465	508S	466	467	467	467	
	6001	6001	6031	6001	6006	6003	6005	6007	6008	6011	6002	6003	6009	6558	6559	6162	110S	6178	6110	6173	6359	6363
FLOWABLE BACKFILL	TRENCH EXCAVATION PROTECTION	RIPRAP (STONE PROTECTION) (12 IN)	CONC BOX CULV (3 FT X 2 FT)	CONC BOX CULV (5 FT X 2 FT)	RC PIPE (CL III)(18 IN)	RC PIPE (CL III)(24 IN)	RC PIPE (CL III)(30 IN)	RC PIPE (CL III)(36 IN)	RC PIPE (CL III)(54 IN)	MANH (COMPL)(PRM)(48IN)	MANH (COMPL)(PRM)(60IN)	JCTBOX (COMPL)(PJB) (5FTX5FT)	INL(CMP) (PAZD-CZ) (FG)(3FTX3FT -3FTX3FT)	INL(CMP) (PAZD-CZ) (FG)(4FTX4FT -3FTX3FT)	INL(CMP) (PAZD-CZ) (FG)(4FTX4FT -3FTX3FT)	COA INLET STANDARD 10 FT	WINGWALL (PW - 1) (HW=3 FT)	SET (TY I)(S=3 FT)(HW=3 FT)(6:1)(P)	SET (TY I)(S=5 FT)(HW=3 FT)(6:1)	SET (TY II) (18 IN) (RCP) (4:1)(P)	SET (TY II) (18 IN) (RCP) (6:1)(P)	
CY	LF	CY	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	
KAUFFMAN LOOP WEST				120																2		
KAUFFMAN CROSSOVER								112														
SANTA RITA WEST																						
SANTA RITA CROSSOVER		172																				
STA 2486+50 TURNAROUND		32										54										
FIRE STATION CROSSOVER		65										88										
TOWER ROAD WEST		145										145										
TOWER ROAD CROSSOVER												136										
CR258 WEST		90																				
CR258 CROSSOVER												441										
STA 2674+66.10 CROSSING													248									
DRIVEWAY CULVERTS					32	74	412		113											2	2	
STORM SEWER SANTA RITA BLVD		376				51			96	236			1				2					
STORM SEWER TOWER ROAD		418				167			416				1				2					
STORM SEWER MEDIAN		349	31	348.5														1	1			
STORM SEWER FM 3405		185							164					1								
STORM SEWER WQ POND						117	306				1			1							1	
MISCELLANEOUS	100																					
DRAINAGE SUBTOTAL	100	1832	31	348.5	152	409	1390	1056	457	236	1	1	2	2	1	0	4	1	1	4	1	2

SUMMARY OF DRAINAGE ITEMS					
LOCATION	467	467	467	467	467
	6389	6395	6418	6423	6454
SET (TY II) (24 IN) (RCP) (3:1)(P)	SET (TY II) (24 IN) (RCP) (6:1) (P)	SET (TY II) (30 IN) (RCP) (3:1) (P)	SET (TY II) (30 IN) (RCP) (6:1) (P)	SET (TY II) (36 IN) (RCP) (6:1) (P)	SET (TY II) (36 IN) (RCP) (6:1) (P)
EA	EA	EA	EA	EA	EA
KAUFFMAN LOOP WEST					
KAUFFMAN CROSSOVER		2			
SANTA RITA WEST					
SANTA RITA CROSSOVER	2				
STA 2486+50 TURNAROUND				2	
FIRE STATION CROSSOVER		2			
TOWER ROAD WEST				2	
TOWER ROAD CROSSOVER		2			
CR258 WEST					4
CR258 CROSSOVER			1	1	
STA 2674+66.10 CROSSING					
DRIVEWAY CULVERTS		18			4
STORM SEWER SANTA RITA BLVD					1
STORM SEWER TOWER ROAD					
STORM SEWER MEDIAN					
STORM SEWER FM 3405		1			
STORM SEWER WQ POND					
DRAINAGE SUBTOTAL	2	25	1	5	9


SUMMARY OF WATER QUALITY ITEMS								
LOCATION	403	432	432	432	465	481	SP-1	SP-2
	6001	6003	6024	6026	6153	6013		
TEMPORARY SPL SHORING	RIPRAP (CONC)(6 IN)	RIPRAP (STONE COMMON)(DR Y)(12 IN)	RIPRAP (STONE COMMON)(DR Y)(18 IN)	INLET (COMPL)(PA ZD)(RC)(4FT X4FT)	PIPE (PVC) (SCH 40) (6 IN)	SS - WATER QUALITY POND	SS - RECONSTRUCT BATCH DET POND	
SF	CY	CY	CY	EA	LF	EA	EA	
FIRE STATION POND								1
SAND FILTER NO. 1						138	1	
SAND FILTER NO. 2					1		1	
SAND FILTER NO. 3							1	
SAND FILTER NO. 4A	1211	12	160			90	1	
SAND FILTER NO. 4B						60	1	
SAND FILTER NO. 5				140			1	
SAND FILTER NO. 6			38				1	
WATER QUALITY SUBTOTAL	1211	12	198	140	1	288	7	1

SUMMARY OF DRAINAGE ITEMS								
LOCATION	110	420	432	432	462	462	466	466
	6002	6057	6002	6031	6001	6026	6165	6178
EXCAVATION (CHANNEL)	CL C CONC (WINGWALLS)	RIPRAP (CONC)(5 IN)	RIPRAP (STONE PROTECTION) (12 IN)	CONC BOX CULV (3 FT X 2 FT)	CONC BOX CULV (9 FT X 7 FT)	WINGWALL (FW - S) (HW=4 FT)	WINGWALL (PW - 1) (HW=3 FT)	
CY	CY	CY	CY	LF	LF	EA	EA	
CROSSING 2 CHANNEL	1780		295					
CULVERT AT SH 29		12.7						
CULVERT 3		13.4		128		102		
CULVERT STA 2647+00			6		95	1	1	
DRAINAGE SUBTOTAL	1780	26.1	301	128	95	102	1	1

NO.	REVISION	BY	DATE
5	PAZD REPLACED	BAM	07/18/25
4	CULVERT ADJUSTED FOR GRADING	ANK	1/22/25
3	REVISE SBRR ROADWAY	ANK	12/30/24
2	QUANTITY REVISIONS PER RFI #27	ANK	11/14/24
1	QUANTITY REVISIONS PER RFI #5	ANK	8/21/24



WILCO
TEXAS



CP&Y
an STV Company
TEXAS REGISTERED
ENGINEERING FIRM F-1741

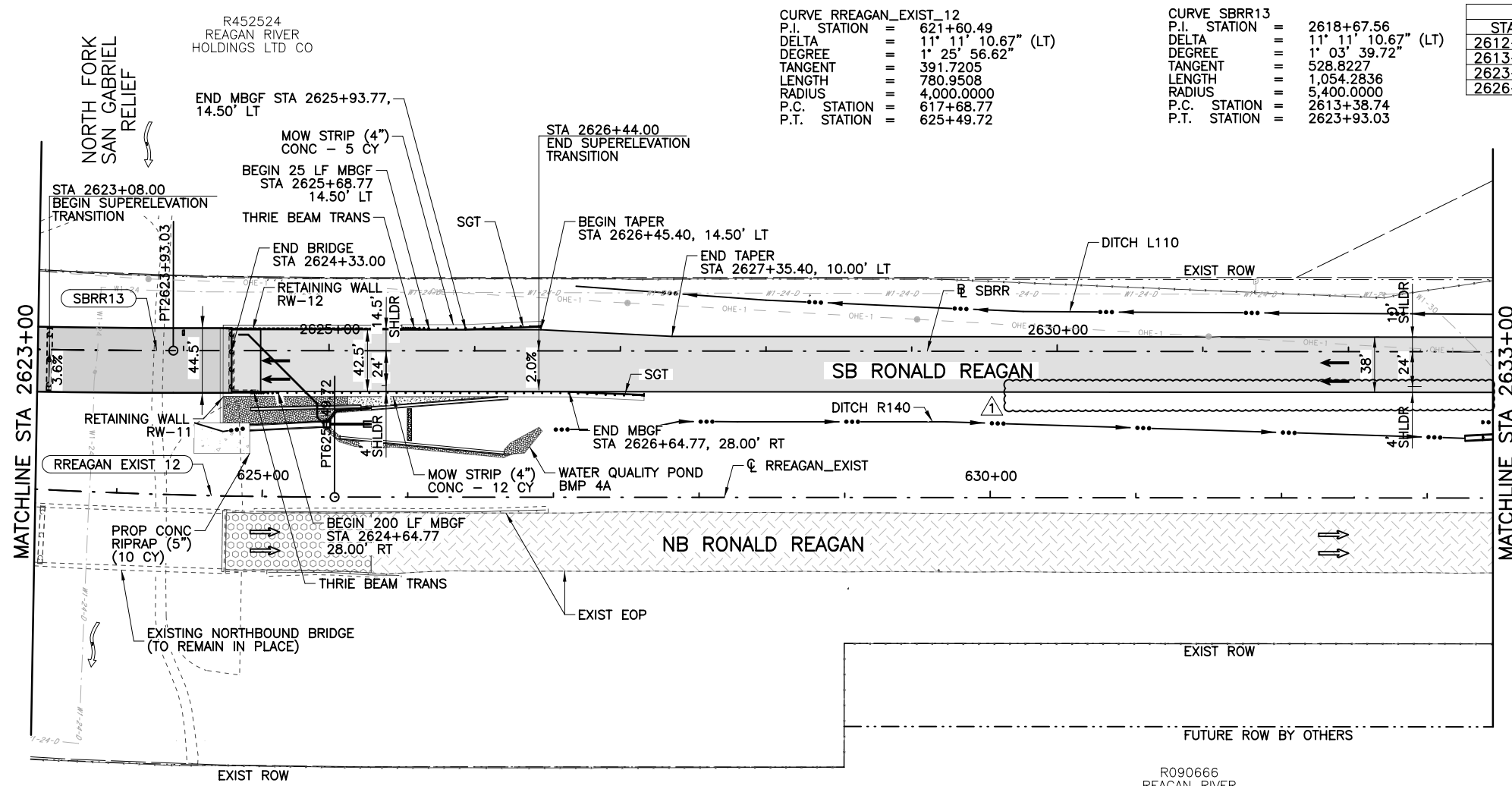
RONALD REAGAN BLVD.

SUMMARY OF DRAINAGE AND WATER QUALITY ITEMS

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		

SHEET 1 OF 1

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CURVE RREAGAN_EXIST_12

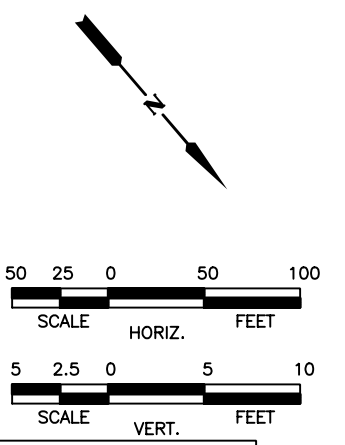
P.I. STATION	=	621+60.49
DELTA	=	11° 11' 10.67" (LT)
DEGREE	=	1° 25' 56.62"
TANGENT	=	391.7205
LENGTH	=	780.9508
RADIUS	=	4,000.0000
P.C. STATION	=	617+68.77
P.T. STATION	=	625+49.72

CURVE SBRR13

P.I. STATION	=	2618+67.56
DELTA	=	11° 11' 10.67" (LT)
DEGREE	=	1° 03' 39.72"
TANGENT	=	528.8227
LENGTH	=	1,054.2836
RADIUS	=	5,400.0000
P.C. STATION	=	2613+38.74
P.T. STATION	=	2623+93.03

SUPERELEVATION TABLE

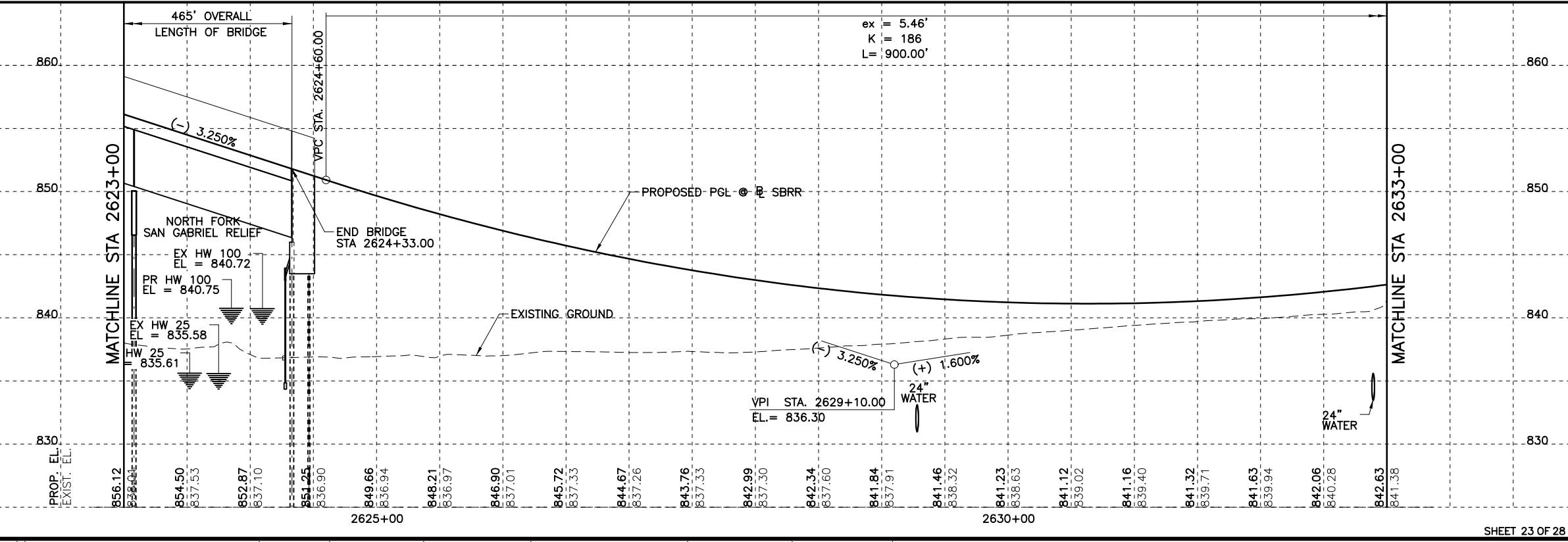
STATION	SLOPE	COMMENTS
2612+75.00	2	BEGIN TRANSITION
2613+71.00	3.6	BEGIN FULL SUPERELEVATION
2623+08.00	3.6	END FULL SUPERELEVATION
2626+44.00	-2	END TRANSITION



LEGEND

- PROPOSED PAVEMENT
- PROPOSED BRIDGE
- PROPOSED SIDEWALK
- PROPOSED SURFACE LIFT
- 2" OVERLAY & UNDERSEAL
- 0" - 2" MILLING TRANSITION
- W/2" OVERLAY
- 0" - 2" EDGE MILLING
- CONCRETE
- STONE RIPRAP
- PARCEL LINE
- FUTURE BY OTHERS

- NOTES:**
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT WHERE APPLICABLE.
 - ALL STATIONING BASED ON SBRR UNLESS OTHERWISE NOTED.
 - EXISTING GROUND PROFILE IS AT SBRR.
 - DRIVEWAY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. SEE DRIVEWAY AND SIDEWALK DETAILS SHEET FOR FURTHER INFORMATION.
 - SEE INTERSECTION LAYOUTS FOR MORE INFORMATION.



Andrea Klocinski
 07/17/2025

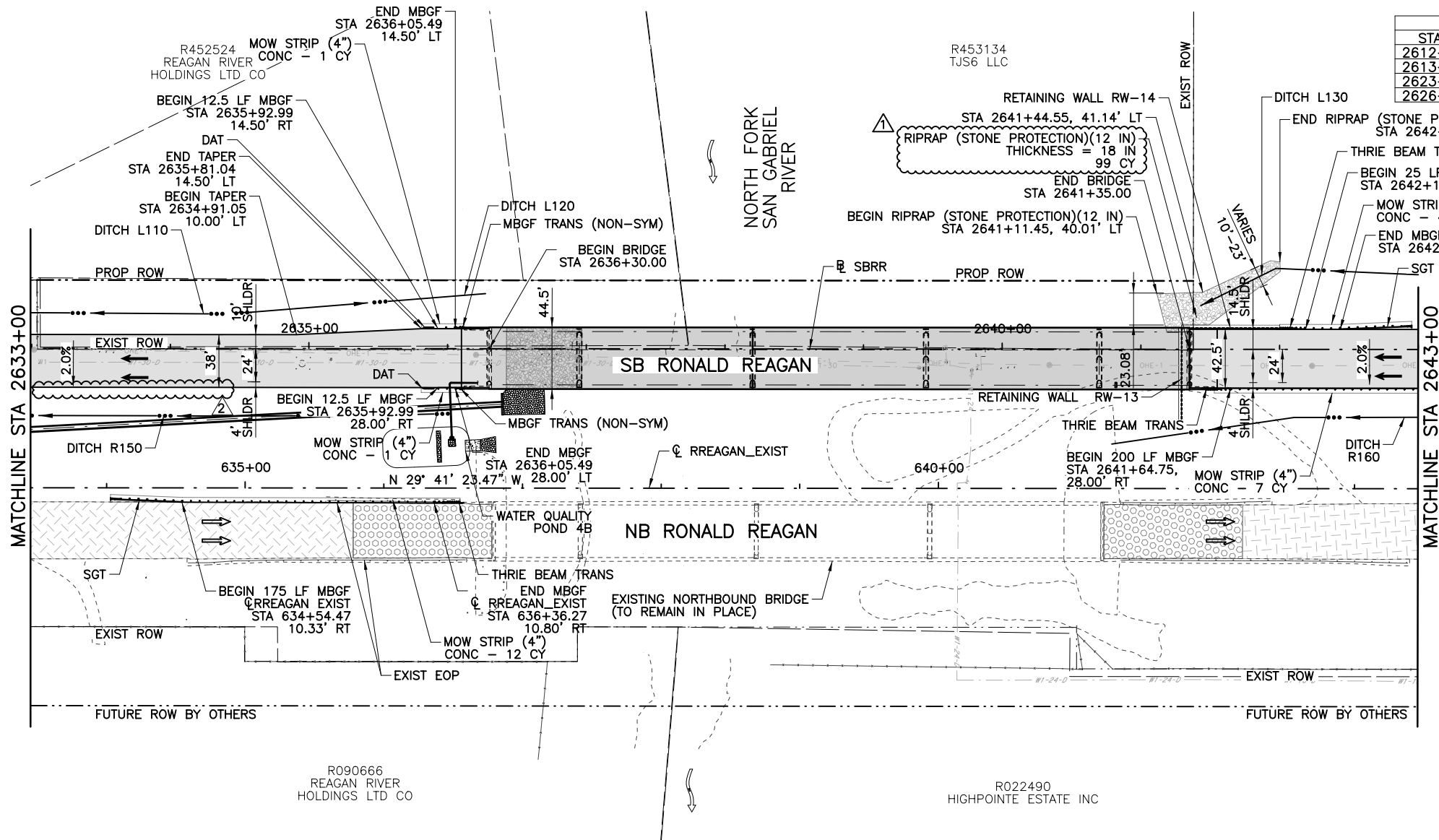
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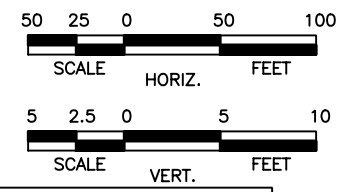
RONALD REAGAN BLVD.
ROADWAY PLAN & PROFILE
 SB RONALD REAGAN
 STA 2623+00.00 TO STA 2633+00.00

Designed:	ANK	FED. RD. DIST. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	ANK	X	TEXAS		
Drawn:	ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:	ANK		WILLIAMSON		163

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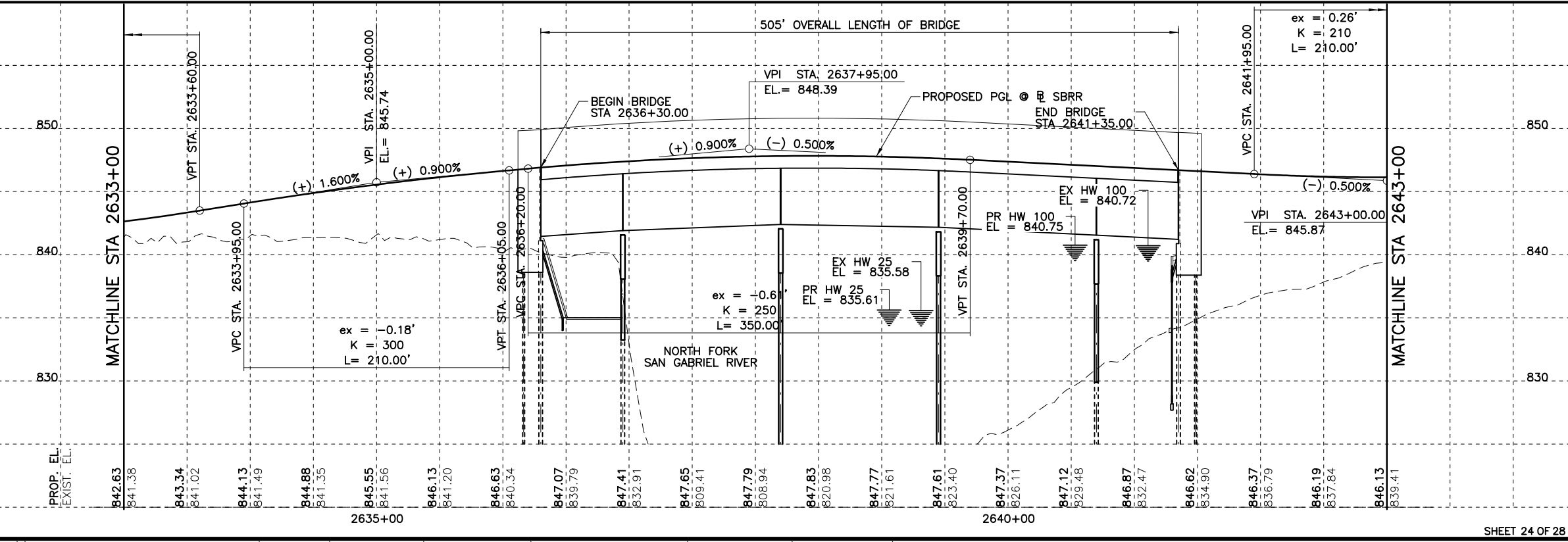


SUPERELEVATION TABLE		
STATION	SLOPE	COMMENTS
2612+75.00	2	BEGIN TRANSITION
2613+71.00	3.6	BEGIN FULL SUPERELEVATION
2623+08.00	3.6	END FULL SUPERELEVATION
2626+44.00	-2	END TRANSITION



LEGEND	
[Pattern]	PROPOSED PAVEMENT
[Pattern]	PROPOSED BRIDGE
[Pattern]	PROPOSED SIDEWALK
[Pattern]	PROPOSED SURFACE LIFT
[Pattern]	2" OVERLAY & UNDERSEAL
[Pattern]	0" - 2" MILLING TRANSITION W/2" OVERLAY
[Pattern]	0" - 2" EDGE MILLING
[Pattern]	CONCRETE
[Pattern]	STONE RIPRAP
[Line]	PARCEL LINE
[Dashed Line]	FUTURE BY OTHERS

- NOTES:
- ALL DIMENSIONS ARE TO EDGE OF PAVEMENT WHERE APPLICABLE.
 - ALL STATIONING BASED ON SBRR UNLESS OTHERWISE NOTED.
 - EXISTING GROUND PROFILE IS AT SBRR.
 - DRIVEWAY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. SEE DRIVEWAY AND SIDEWALK DETAILS SHEET FOR FURTHER INFORMATION.
 - SEE INTERSECTION LAYOUTS FOR MORE INFORMATION.



Andrea Klocinski
07/17/2025

RFI 33 - RIPRAP UPDATES	ANK	12/20/24
RFI 74 MBGF REMOVED	ANK	7/17/25
NO.	REVISION	BY DATE

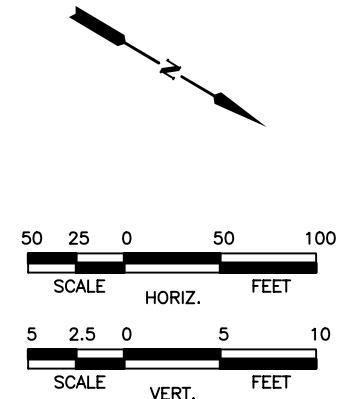
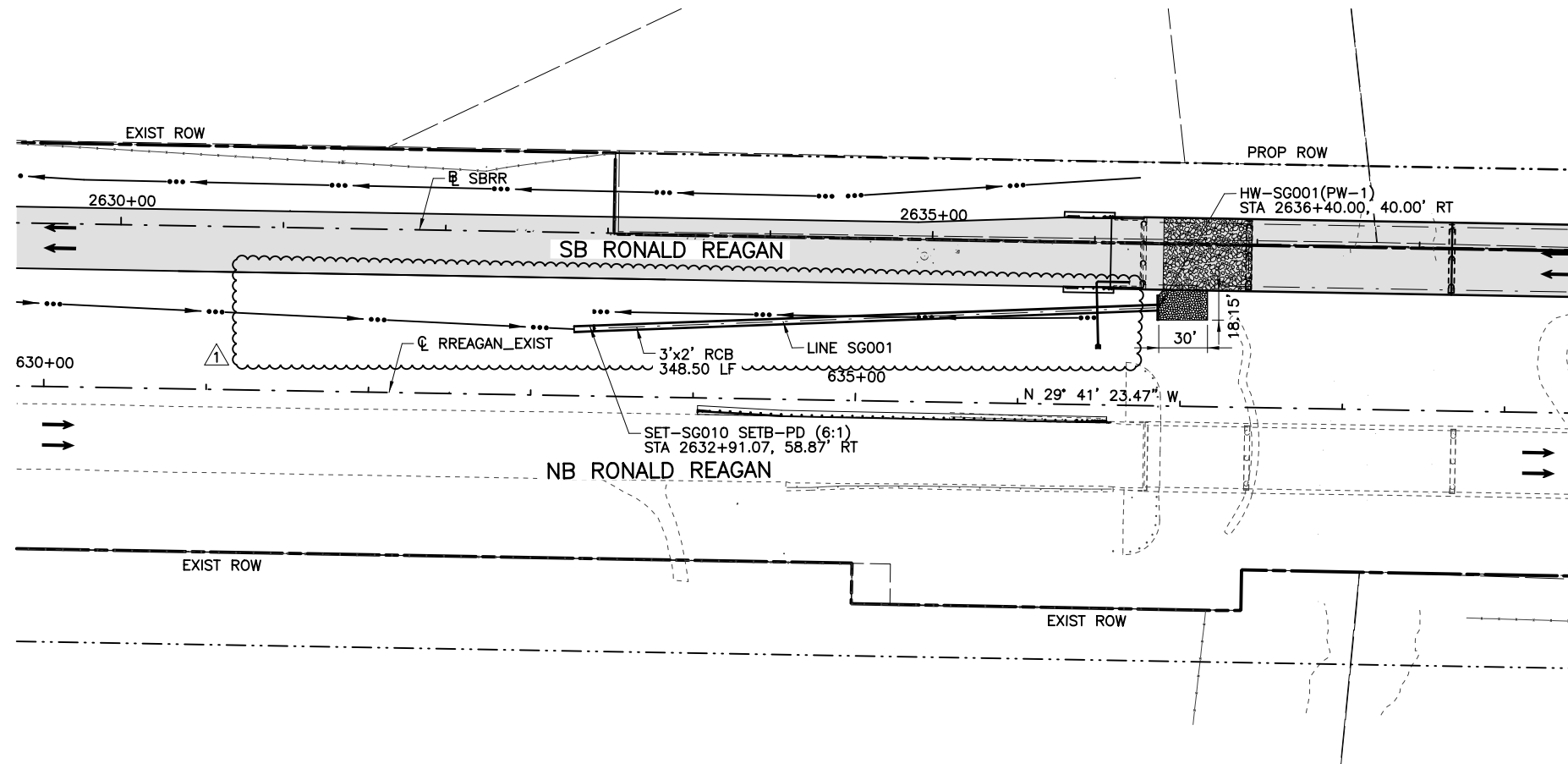


ROADWAY PLAN & PROFILE

SB RONALD REAGAN
STA 2633+00.00 TO STA 2643+00.00

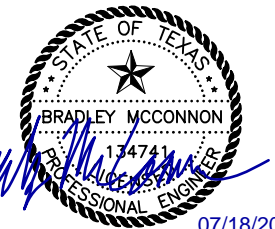
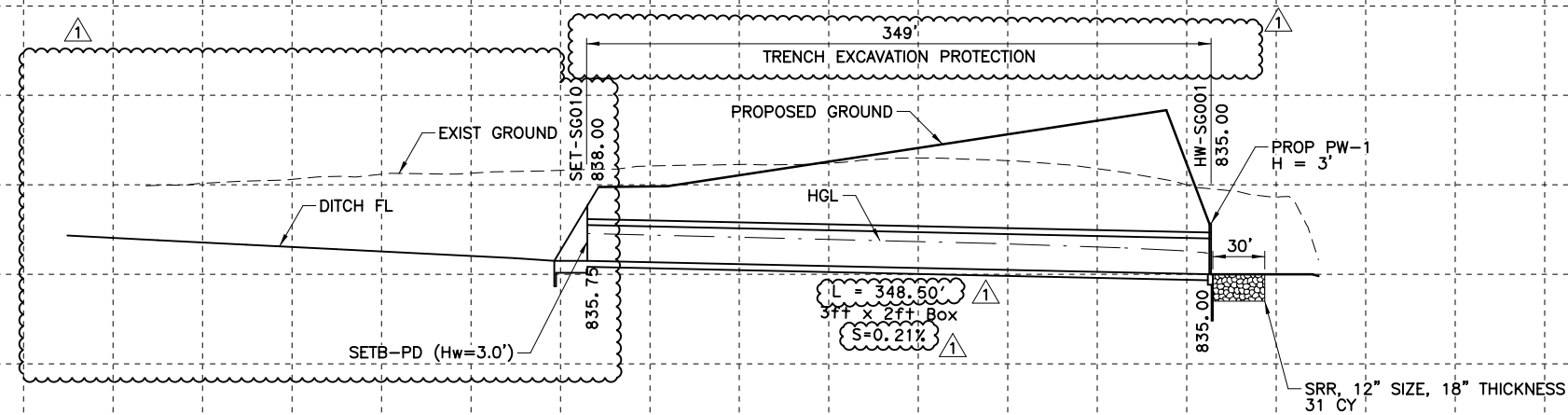
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Checked: ANK	DIST.	COUNTY WILLIAMSON	CONTROL NO.	SECTION NO.
Drawn: ANK			JOB NO.	SHEET NO. 164

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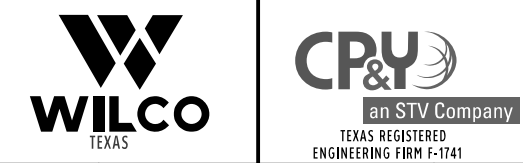


NOTES:

1. ALL STATIONS AND OFFSETS ARE BASED OFF OF SBRR UNLESS OTHERWISE NOTED.
2. SEE ROADWAY PLAN AND PROFILE SHEETS FOR DITCH LIMITS AND DETAILS.
3. ALL LOCATIONS FOR CURB INLETS ARE SHOWN AT THE FACE OF CURB
4. ALL LOCATIONS FOR DITCH INLETS AND MANHOLES ARE SHOWN TO THE CENTER POINT OF HTE INLET BOX OR MANHOLE STACK, UNLESS OTHERWISE NOTED.
5. ALL JUNCTIONS (WYES, TEES, BENDS) SHALL BE SUBSIDIARY TO PERTINENT ITEM UNLESS OTHERWISE NOTED.
6. GEOPAK DRAINAGE WAS USED FOR STORM SEWER COMPUTATIONS.
7. ALL PIPE SHALL BE CLASS III UNLESS NOTED OTHERWISE



NO.	REVISION	BY	DATE
1	RFI 74 PAZD REMOVED	BM	7/17/25



RONALD REAGAN BLVD.
STORM SEWER PLAN & PROFILE
 NORTH FORK SAN GABRIEL RIVER MEDIAN

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		
			JOB NO.	SHEET NO.
				303

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 No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this drawing to any other format or for the use of this drawing in any other project.

Culvert Station and/or Creek Name followed by applicable end (Lt, Rt or Both)	Description of Box Culvert No. Spans ~ Span X Height	Max Fill Height (Ft)	Applicable Box Culvert Standard (4)	Applicable Wingwall or End Treatment Standard	Skew Angle (0°, 15°, 30° or 45°)	Side Slope or Channel Slope Ratio (SL:1)	T Culvert Top Slab Thickness (In)	U Culvert Wall Thickness (In)	C Estimated Curb Height (Ft)	Hw (1) Height of Wingwall (Ft)	A Curb to End of Wingwall (Ft)	B Offset of End of Wingwall (Ft)	Lw Length of Longest Wingwall (Ft)	Ltw Culvert Toewall Length (Ft)	Atw Anchor Toewall Length (Ft)	Riprap Apron (CY)	Class "C" Conc (Curb) (CY) (2)	Class "C" Conc (Wingwall) (CY) (3)	Total Wingwall Area (SF)
CULV. #3, STA 494+77.37 LT	1 ~ 9 x 7	3	SCC-9	FW-S*	30	3:1	8	7	0.5	7.917	N/A	22.75	32.173	N/A	N/A	6	0.2	7.8	133
CULV. #3, STA 494+77.37 RT	1 ~ 9 x 7	3	SCC-9	FW-S*	30	3:1	8	7	0.5	7.917	22.75	N/A	N/A	N/A	N/A	0	0.2	5.6	95
CULV. STA 2647+19.30, US LT	1 ~ 3 x 2	7	SCP-3	PW-1	30	6:1	4	4	0.625	2.958	N/A	N/A	20.496	4.234	N/A	0	0.1	9.4	121
CULV. STA 2647+19.30, DS RT	1 ~ 3 x 2	7	SCP-3	FW-S	30	3:1	4	4	1.479	3.542	9.625	9.625	13.612	N/A	N/A	1.2	0.2	3.3	46
HW-SG001 RT	1 ~ 3 x 2	7	SCP-3	PW-1	0	2:1	4	4	0.25	2.583	N/A	N/A	5.167	3.667	N/A	0	0	2.5	27
△ SET-SG010 LT	1 ~ 3 x 2	7	SCP-3	SETB-PD	0	6:1	4"	4"	0.917	3	N/A	N/A	16.5	N/A	4.167	0	0.1	2.7	N/A

***SINGLE WING ONLY**

NOTES:
 Skew = 0° on SW-0, FW-0, SETB-CD, SETB-SW-0, and SETB-FW-0 standard sheets;
 30° maximum for safety end treatment

SL:1 = Horizontal : 1 Vertical
 • Side slope at culvert for flared or straight wingwalls.
 • Channel slope for parallel wingwalls.
 • Slope must be 3:1 or flatter for safety end treatments.

T = Box culvert top slab thickness. Dimension can be found on the applicable box culvert standard sheet.

U = Box culvert wall thickness. Dimension can be found on the applicable box culvert standard sheet.

C = Curb height

See applicable wing or end treatment standard sheets for calculations of Hw, A, B, Lw, Ltw, Atw, and Total Wingwall Area.

Hw = Height of wingwall

A = Distance from face of curb to end of wingwall (not applicable to parallel or straight wingwalls)

B = Offset of end of wingwall (not applicable to parallel or straight wingwalls)

Lw = Length of longest wingwall.

Ltw = Length of culvert toewall (not applicable when using riprap apron)

Atw = Length of anchor toewall (applicable to safety end treatment only)

Total Wingwall Area = Wingwall area in sq. ft. for two wingwalls (one structure end) if Lt or Rt.

Area for four wingwalls (two structure ends) if Both.

FOR REVISION #1



- ① Round the wall heights shown to the nearest foot for bidding purposes.
- ② Concrete volume shown is for box culvert curb only. For curbs using the Box Culvert Rail Mounting Details (RAC) standard sheet quantities shown must be increased by a factor of 2.25. If Class S concrete is required for the top slab of the culvert, also provide Class S concrete for the curb. Curb concrete is considered part of the Box Culvert for payment.
- ③ Concrete volume shown is total of wings, footings, culvert toewall (if any), anchor toewalls (if any) and wingwall toewalls. Riprap aprons, culverts, and curb quantities are not included.
- ④ Regardless of the type of culvert shown on this sheet, the Contractor has the option of furnishing cast-in-place or precast culverts unless otherwise shown elsewhere on the plans. If the Contractor elects to provide culverts of a different type than those shown on this sheet, it is the Contractor's responsibility to make the necessary adjustments to the dimensions and quantities shown.

SPECIAL NOTE:
 This sheet is a supplement to the box culvert standards. It is to be filled out by the culvert specifier and provides dimensions for the construction of the box culvert wingwalls and safety end treatments.
 An Excel 2010 spreadsheet to assist in completing this table can be downloaded from the Bridge Standards (English) web page on the TxDOT web site. The completed sheet must be signed, sealed, and dated by a licensed Professional Engineer.



△	SETB-PD ADDED	BAM	7/18/25
NO.	REVISION	BY	DATE



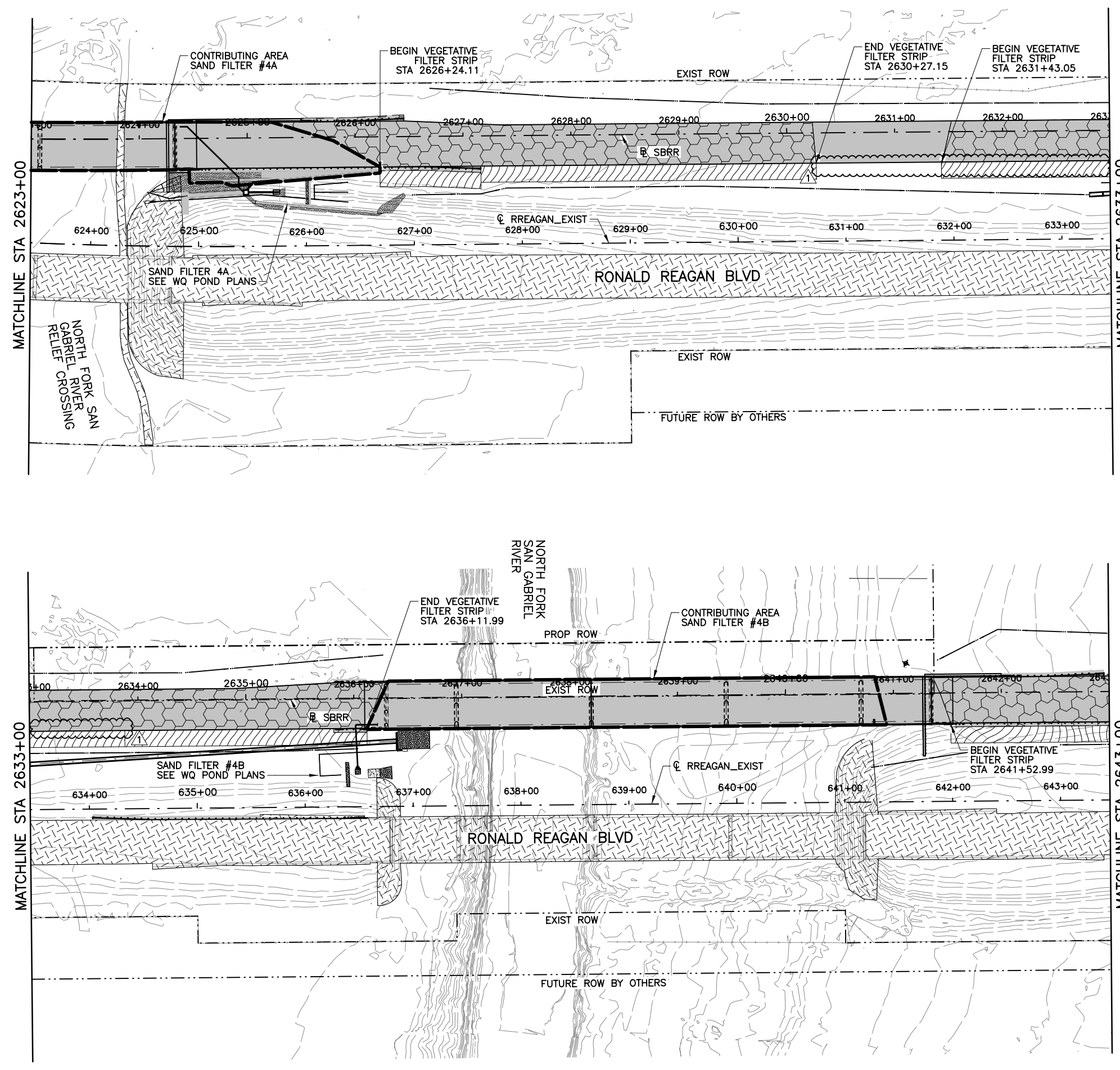
RONALD REAGAN BLVD.

BOX CULVERT SUPPLEMENT WINGS AND END TREATMENTS

BCS

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS	\$FED\$	
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		

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LEGEND	
	EXISTING IMPERVIOUS COVER
	EXISTING IMPERVIOUS COVER TO BE REMOVED
	PROPOSED IMPERVIOUS COVER
	PROPOSED BMP TREATED PAVEMENT
	PROPOSED VEGETATIVE FILTER STRIPS
	PROPOSED VEGETATIVE FILTER STRIPS REMOVE & REPLACE
	DETENTION POND
	DIRECTION OF DITCH FLOW
	DIRECTION OF FLOW
	ROCK RIPRAP/GABION WALL
	SPLASH PAD
	CLEANOUT
	UNDERDRAIN
	PROPOSED BALL VALVE

	RFI 74 MGBF REMOVED	BM	7/17/25
NO.	REVISION	BY	DATE

TEXAS REGISTERED
ENGINEERING FIRM F-1741

RONALD REAGAN BLVD.

WATER QUALITY DRAINAGE PLANS

Designed:	FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
Checked:	X	TEXAS		
Drawn:	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked:		WILLIAMSON		
			JOB NO.	SHEET NO.
				351

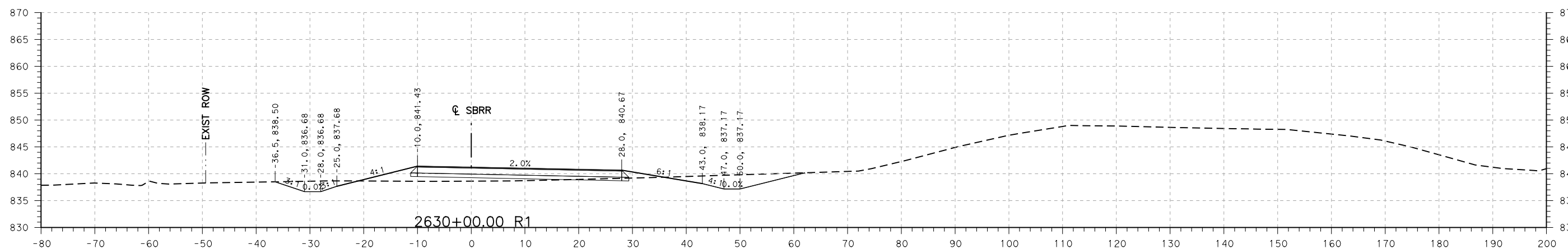
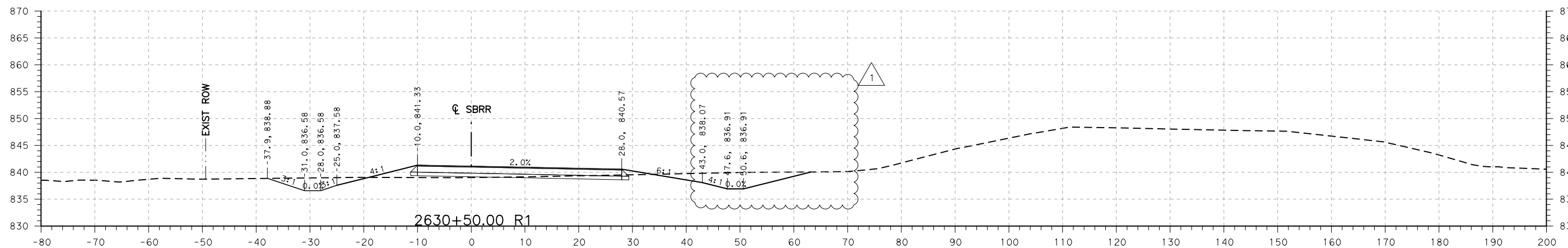
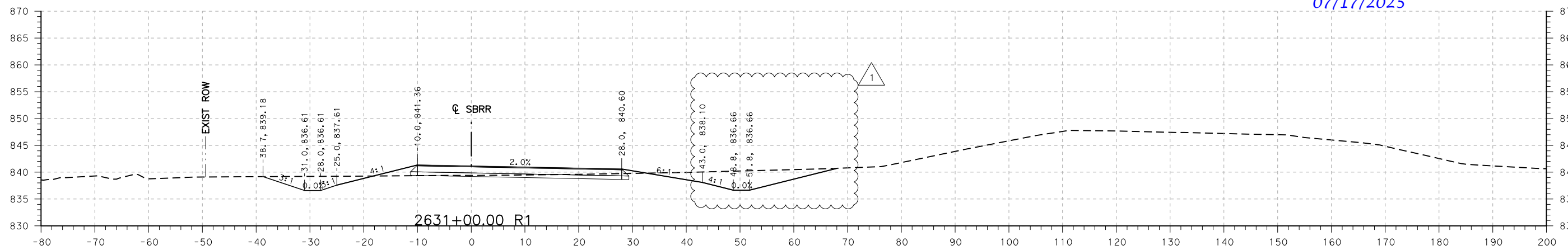
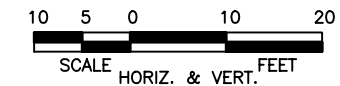
NOTES:

1. THE UTILITY INFORMATION SHOWN IS PROVIDED BY OTHERS AND IS REPRESENTATIVE. THIS INFORMATION WAS OBTAINED SOLELY FOR THE USE OF THE ENGINEERING DESIGN OF THE PROJECT. THE ACCURACY AND SUFFICIENCY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LIMITS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. VERTICAL LOCATION OF UTILITIES IS APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

STA. 2630+00.00 R1 TO STA. 2631+00.00 R1



Andrea Klocinski
07/17/2025



RONALD REAGAN BLVD
RONALD REAGAN CROSS SECTIONS

SHEET 194 OF 234

Designed: -	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.		HIGHWAY NO.
Checked: -	X	TEXAS			
Drawn: -	DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
Checked: -	AUS	WILLIAMSON			875

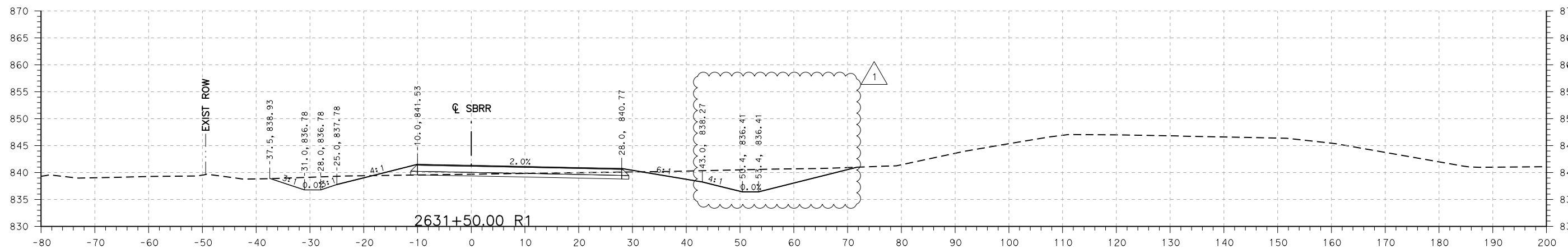
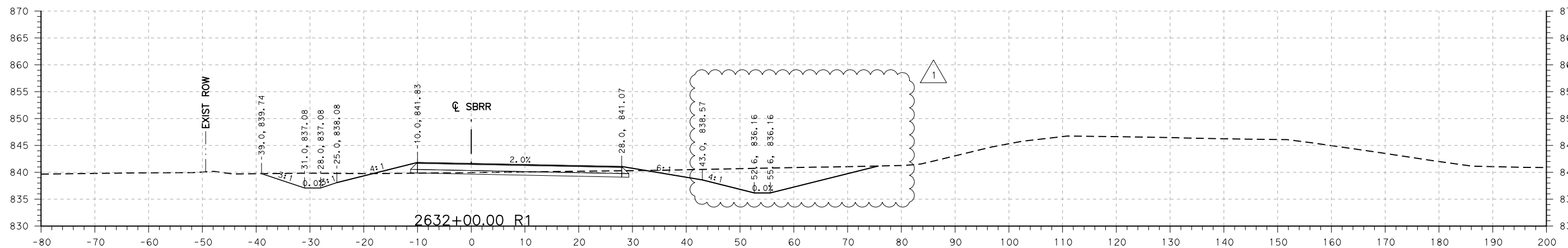
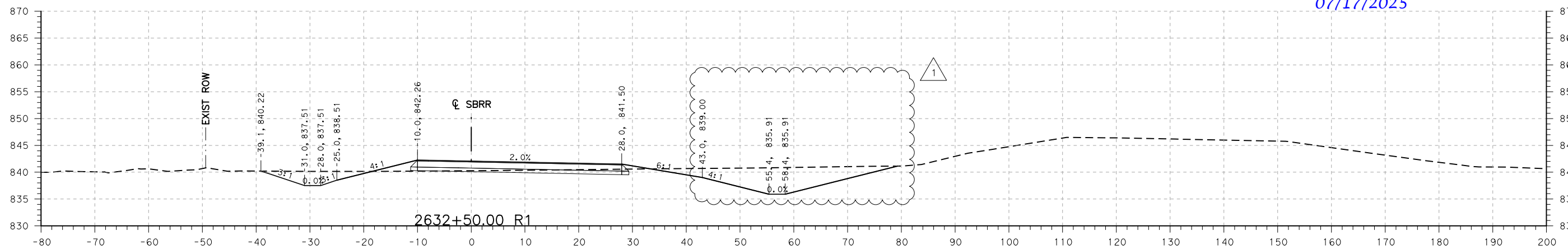
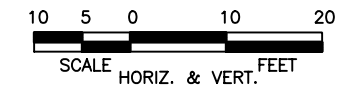
NOTES:

1. THE UTILITY INFORMATION SHOWN IS PROVIDED BY OTHERS AND IS REPRESENTATIVE. THIS INFORMATION WAS OBTAINED SOLELY FOR THE USE OF THE ENGINEERING DESIGN OF THE PROJECT. THE ACCURACY AND SUFFICIENCY OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY UTILITY LIMITS AND LOCATIONS PRIOR TO CONSTRUCTION.
2. VERTICAL LOCATION OF UTILITIES IS APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

STA. 2631+50.00 R1 TO STA. 2632+50.00 R1



Andrea Klocinski
07/17/2025



RONALD REAGAN BLVD
RONALD REAGAN CROSS SECTIONS

SHEET 195 OF 234

Designed: -	FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	HIGHWAY NO.
Checked: -	X	TEXAS		
Drawn: -	DIST.	COUNTY	CONTROL NO.	SECTION NO.
Checked: -	AUS	WILLIAMSON		
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				SHEET NO.
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