

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 5

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: 1A (3 Max. - In order of importance - Primary first)

Describe the work being revised:

1A. Design Error or Omission. Incorrect PS&E.: This Change Order adds an item for the transition sections of the metal beam guard fence (MBGF) to the concrete rail at all of the bridge locations.

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

New or revised plan sheet(s) are attached and numbered: 2, 21, 214A, 424

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.

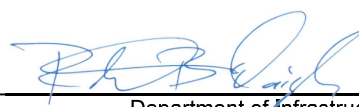
Each signatory hereby warrants that each has the authority to execute this Change Order (CO).

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.	The following information must be provided	
	Time Ext. #: <u>N/A</u>	Days added on this CO: <u>0</u>
THE CONTRACTOR	Amount added by this change order: <u>\$16,261.00</u>	
Date <u>4/16/2025</u>		
By 	Original Contract Amount: <u>\$52,159,299.00</u>	
Typed/Printed Name <u>Scott Ambrus</u>	Total Change Orders To-Date: <u>\$310,563.50</u>	
Typed/Printed Title <u>Project Manager</u>	Percent Change in Original Contract: <u>0.60%</u>	

RECOMMENDED FOR EXECUTION:


Senior Construction Engineer Date 4/16/2025

RECOMMENDED FOR EXECUTION:


Department of Infrastructure Date 4/23/2025
Williamson County


Program Manager Date 4/22/2025

APPROVED:

N/A
3rd Party Signature Date

 05/01/2025
Presiding Officer of the Date
Williamson County Commissioners Court

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 5

Project # 24IFB57

TABLE A: Force Account Work and Materials Placed into Stock

	LABOR	HOURLY RATE			HOURLY RATE

TABLE B: Contract Items:

				ORIGINAL + PREVIOUSLY REVISED		ADD or (DEDUCT)	NEW		
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
540-7016	MTL BM GD FEN TRANS (NON-SYM)	EA	\$1,161.50	0.00	\$0.00	14.00	14.00	\$16,261.00	\$16,261.00
	TOTALS				\$0.00			\$16,261.00	\$16,261.00

CHANGE ORDER REASON(S) CODE CHART

1. Design Error or Omission	1A. Incorrect PS&E 1B. Other
2. Differing Site Conditions (unforeseeable)	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
3. County Convenience	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
4. Third Party Accommodation	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
5. Contractor Convenience	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
6. Untimely ROW/Utilities	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

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%
Total changes to date		\$310,563.50	0.60%
Adjusted contract amount		\$52,469,862.50	(Running totals here)

Williamson County Road Bond Program

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

Change Order No. 5

Reason for Change

This Change Order adds an item for the transition sections of the metal beam guard fence (MBGF) to the concrete rail at all of the bridge locations. This item was left out of the plans and was discovered while reviewing RFI 44, which asks for clarification on the missing quantity between the C221 rail and the MBGF.

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

ITEM	DESCRIPTION	QTY	UNIT
540-7016	MTL BM GD FEN TRANS (NON-SYM)	14	EA

This Change Order results in a net increase of \$16,261.00 to the Contract amount, for an adjusted Contract total of \$52,469,862.50. The original Contract amount was \$52,159,299.00. As a result of this and all Change Orders to-date, \$310,563.50 has been added to the Contract, resulting in a 0.60% 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.



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

24080 - RONALD REAGAN BLVD WIDENING
CHANGE PROPOSAL 008
RFI 044

2/14/2025

BID ITEM	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL
540-7016	MTL BM GD FEN TRANS (NON-SYM)	14	EA	\$1,161.50	\$ 16,261.00
		0		\$0.00	\$ -

	TOTAL PROPOSAL				\$ 16,261.00
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This price is in line with avg TxDOT prices.



REQUEST FOR INFORMATION FORM

RFI NO.: 44 DATE: 1/29/25
PROJECT: RONALD REAGAN BLVD WIDENING RESPONSE REQUESTED BY
DATE: 2/5/25
TO: HNTB: Eddie Church P.E.; Oscar Salazar-Bueno P.E.; Steven Shull; Joseph Jones

REFERENCE: Sheet 424, Sheet 164 - North Fork San Gabriel River Bridge

PROBLEM:

The C-221 rail stops at the SEJ at STA 2636+30. An additional 24.51' of C221 would be necessary to meet the MBGF. The distance from the missing rail plus thrie beam do not match to the MBGF ending at STA 2636+05.49 for both the left and right sides. Can we please get all stations verified for the MBGF and C221 rail on the North Fork San Gabriel River Bridge and revised sheets to reflect any changes.

RECOMMENDED SOLUTION:

Lauren Sharpe
Originator

Supervisor

RESPONSE:

C-221 rail begins at Sta 2636+12. "Begin bridge rail" label and dimension in the bridge layout (Sheet 424) has been updated. The original quantities and rail length have not changed. Connected to the bridge rail on both downstream sides is a MBGF Trans (Non-Sym), the details for which are shown on the BED-14 standard included in this package (sheet 214A). Item 540 6018 MBGF Trans (Non-Sym) has been included to match the plans. This has been updated in Sheet 21.

The station included with the MBGF callouts are approximate for the begin/end locations of the MBGF between the Transition and the DAT and are included for informational purposes to confirm the LF quantity.

Andrea Klocinski
Responder

02/03/2025
Date

Sign, Date & Return to HNTB via e-mail or fax.

Mail original to: HNTB Corporation
101 E Old Settlers Blvd, Ste 225
Round Rock, Texas 78664

Attachments to RFI:
Cc:

1/31/2025 2:38:00 PM KlocinAN
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GENERAL		
1		TITLE SHEET
2	- 3	SUPPLEMENTAL INDEX
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6	- 17	TYPICAL SECTIONS
18		GENERAL NOTES
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43		TRAFFIC CONTROL PLAN PHASE 2A TYPICAL SECTIONS
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99		TCP(2-1)-18
100		TCP(2-3)-23
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104		TCP(3-3)-14
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107		ABSORB(M)-19
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137	- 140	HORIZONTAL ALIGNMENT DATA
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172		ROADWAY PLAN & PROFILE - KAUFFMAN LOOP
173		ROADWAY PLAN & PROFILE - SANTA RITA BLVD
174		ROADWAY PLAN & PROFILE - FIRE STATION
175		ROADWAY PLAN & PROFILE - ELIZABETH PARKWAY
176		ROADWAY PLAN & PROFILE - TOWER ROAD
177		ROADWAY PLAN & PROFILE - CR 258
178	- 180	ROADWAY PLAN & PROFILE - FM 3405
181		INTERSECTION LAYOUT - KAUFFMAN LOOP
182		INTERSECTION LAYOUT - SANTA RITA BLVD
183		INTERSECTION LAYOUT - FIRE STATION
184		INTERSECTION LAYOUT - ELIZABETH PARKWAY
185		INTERSECTION LAYOUT - TOWER ROAD
186		INTERSECTION LAYOUT - CR 258
187		INTERSECTION LAYOUT - FM 3405
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222		RETAINING WALL 05 PLAN & PROFILE
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269		DRAINAGE AREA MAP SAN GABRIEL RIVER NORTH FORK
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273		CULVERT LAYOUT CULVERT NO. 3
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275		FLOWAGE EASEMENT MITIGATION GRADING PLAN BRIDGE NO. 5
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318		SCP-3
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319		SCP-9
320		SCP-MD
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322		SCC-MD
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324		FW-S
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327		SETP-PD
328		PSET-SC
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373		CITY OF AUSTIN STANDARD 508S-15
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380		ABUTMENT NO. 8
381		MISCELLANEOUS ABUTMENT DETAILS
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383		INTERIOR BENT NO. 5
384		INTERIOR BENT NOS. 6 & 7
385		FRAMING PLAN (SPANS 1 & 2)
386		250.00' PRESTRESSED CONCRETE I-GIRDER UNIT (SPANS 1 & 2)
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)
		<u>SOWE'S BRANCH BRIDGE</u>
391		BRIDGE LAYOUT
392		ESTIMATED QUANTITIES & BEARING SEAT ELEVATIONS
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.

Signature of Registrant, P.E. & Date

	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	PROJECT NO.	HIGHWAY NO.		
Checked: ANK						
Drawn: ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked: ANK		WILLIAMSON				2

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SUMMARY OF ROADWAY ITEMS		100	110	132	132	247	260	260	310	316	316	351	354	530	530	3076	3076	3076	3076
SHEET NO.	LOCATION	6002	6001	6003	6047	6044	6002	6017	6001	6005	6242	6002	6045	6004	6005	6001	6040	6038	6066
		PREPARING ROW	EXCAVATION (ROADWAY)	EMBANKMENT (FINAL)(ORD COMP)(TY B)	EMBANKMENT (FINAL)(ORD COMP)(TY C1)	FL BS (CMP IN PLC)(TY A GR 4)(FINAL POS)	LIME (HYDRATED LIME (SLURRY))	LIME TRT (MIX EXST MATL & NEW BASE) (8")	PRIME COAT (MULTI OPTION)	ASPH (TIER II)	AGGR(TY-PD GR-5 SAC-B)	FLEXIBLE PAVEMENT STRUCTURE REPAIR(6")	PLANE ASPH CONC PAV (2")	DRIVEWAYS (CONC)	DRIVEWAYS (ACP)	D-GR HMA TY-B PG64-22	D-GR HMA TY-D PG70-22	D-GR HMA TY-D PG64-22 (LEVEL-UP)	TACK COAT
		STA	CY	CY	CY	CY	TON	SY	GAL	GAL	CY	SY	SY	SY	SY	TON	TON	TON	GAL
	RONALD REAGAN BLVD.																		
1 OF 28	BEGIN PROJECT TO STA 2413+00	4.58	18	19					0	0	0		1249				692		381
2 OF 28	STA 2413+00 TO STA 2423+00	10.00	4792	518	2821	1255			552	883	18					1315	9938	35	693
3 OF 28	STA 2423+00 TO STA 2433+00	10.00	6549	2824	7266	4490			826	1321	28		544		99	2810	1278	420	961
4 OF 28	STA 2433+00 TO STA 2443+00	10.00	3336	3832	5894	1844	22	1238	1084	1734	36				119	6256	1117		779
5 OF 28	STA 2443+00 TO STA 2453+00	10.00	6293	5886		1293	71	3970	757	1212	25					1819	932		674
6 OF 28	STA 2453+00 TO STA 2463+00	10.00	7519	99		1508	83	4631	883	1412	29				390	2119	1115		777
7 OF 28	STA 2463+00 TO STA 2473+00	10.00	3127	3389	1152	1915	105	5841	1129	1806	38				136	5187	1407		994
8 OF 28	STA 2473+00 TO STA 2483+00	10.00	10257	551	6191	1799	42	2326	881	1410	29					2461	1010		706
9 OF 28	STA 2483+00 TO STA 2493+00	10.00	8782	1110	6487	2157	5	255	884	1414	29				62	2920	1057		738
10 OF 28	STA 2493+00 TO STA 2503+00	10.00	4368	5469	5416	1383	32	1787	809	1294	27					1877	971		683
11 OF 28	STA 2503+00 TO STA 2513+00	10.00	4397	568	8355	2484	79	4408	1044	1670	35			229		3516	1347		983
12 OF 28	STA 2513+00 TO STA 2523+00	10.00	5164	4110	1792	1613	89	4942	948	1516	32					2283	1070		752
13 OF 28	STA 2523+00 TO STA 2533+00	10.00	2194	462		587	23	1279	246	394	8		861			825	408		224
14 OF 28	STA 2533+00 TO STA 2543+00	10.00	18671	4540		1846	58	3249	884	1414	29				255	2587	1016		709
15 OF 28	STA 2543+00 TO STA 2553+00	10.00	747	20007		1511			884	1415	29					2122	994		694
16 OF 28	STA 2553+00 TO STA 2563+00	10.00	327	8840		1222	42	2322	713	1141	24		479		190	1713	825		546
17 OF 28	STA 2563+00 TO STA 2573+00	10.00	8811	2505		4358	42	2322	1077	1723	36		482	71		6148	1213		929
18 OF 28	STA 2573+00 TO STA 2583+00	10.00	3473	2756		1978	79	4368	836	1338	28				177	2774	1022		721
19 OF 28	STA 2583+00 TO STA 2593+00	10.00	6352	2763		2552	81	4527	877	1403	29		1378			3649	1183		764
20 OF 28	STA 2593+00 TO STA 2603+00	10.00	4774	3225		1556	85	4697	912	1459	30				1012	2189	1021		712
21 OF 28	STA 2603+00 TO STA 2613+00	10.00	9568	4955		1509	84	4648	883	1413	29				1031	2120	1003		699
22 OF 28	STA 2613+00 TO STA 2623+00	10.00	8383	11834		823	29	1593	483	773	16		439			1162	727		480
23 OF 28	STA 2623+00 TO STA 2633+00	10.00	1205	9283		1313	33	1809	770	1232	26		439			1860	877		584
24 OF 28	STA 2633+00 TO STA 2643+00	10.00	1532	4440		729			426	682	14		867			1082	519		308
25 OF 28	STA 2643+00 TO STA 2653+00	10.00	2780	8993		1697			996	1593	33					2534	1065		743
26 OF 28	STA 2653+00 TO STA 2663+00	10.00	7544	1713		1763	12	683	989	1583	33					2604	1074		749
27 OF 28	STA 2663+00 TO STA 2673+00	10.00	1786	2051		2026	95	5287	1014	1623	34				228	3162	1187		972
28 OF 28	STA 2673+00 TO END PROJECT	8.60	1873	1177		830	25	1367	263	420	9		249		346	1552	662		462
	*MISCELLANEOUS REPAIR											10000							
	RONALD REAGAN SUBTOTAL	274	144622	117919	45374	49230	1216	67547	22050	35280	735	10000	6989	299	4046	70646	36730	455	19414

* OBSERVER TO IDENTIFY PAVEMENT REPAIR LOCATIONS PRIOR TO FINAL OVERLAY ON EXISTING PAVEMENT

SUMMARY OF ROADWAY ITEMS		432	432	432	432	432	540	540	540	540	540	540	544	545	#	#	#	#	560
SHEET NO.	LOCATION	6002	6022	6024	6031	6045	6001	6005	6006	6016	6018	6020	6001	6019	6003	6004	6005	6006	6007
		RIPRAP (CONC) (5 IN)	RIPRAP (STONE COMMON) (DRY)(6 IN)	RIPRAP (STONE COMMON)(DRY)(12 IN)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (MOW STRIP)(4 IN)	MTL W-BEAM GD FEN (TIM POST)	TERMINAL ANCHOR SECTION	MTL BEAM GD FEN TRANS (THRIE-BEAM)	DOWNSTREAM ANCHOR TERMINAL SECTION	MTL BM GD FEN TRANS (NON-SYM)	MTL W - BEAM GD FEN (LOW FILL CULVERT)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL)(S)(N)(TL3)	WIRE FENCE (TY C)	WIRE FENCE (TY D)	GATE (TY 1)	GATE (TY 2)	MAILBOX INSTALL-S (WC-POST) TY 3
		CY	CY	CY	CY	CY	LF	EA	EA	EA	EA	LF	EA	EA	LF	LF	EA	EA	EA
	RONALD REAGAN BLVD.																		
1 OF 28	BEGIN PROJECT TO STA 2413+00																		
2 OF 28	STA 2413+00 TO STA 2423+00																		
3 OF 28	STA 2423+00 TO STA 2433+00																		
4 OF 28	STA 2433+00 TO STA 2443+00					6	75							1					
5 OF 28	STA 2443+00 TO STA 2453+00	73	338			30	475		2	3	2		2						
6 OF 28	STA 2453+00 TO STA 2463+00																		
7 OF 28	STA 2463+00 TO STA 2473+00	46	50																
8 OF 28	STA 2473+00 TO STA 2483+00																		
9 OF 28	STA 2483+00 TO STA 2493+00					9	66						2						1
10 OF 28	STA 2493+00 TO STA 2503+00					37	159		2	4	2	100	2						
11 OF 28	STA 2503+00 TO STA 2513+00																		
12 OF 28	STA 2513+00 TO STA 2523+00					10	145			2	2		1						
13 OF 28	STA 2523+00 TO STA 2533+00					32	580		3	1			2						
14 OF 28	STA 2533+00 TO STA 2543+00	1	56			1													
15 OF 28	STA 2543+00 TO STA 2553+00																		
16 OF 28	STA 2553+00 TO STA 2563+00		18			13	200		1	2	2		1	1					
17 OF 28	STA 2563+00 TO STA 2573+00					17	238	2	2				1						
18 OF 28	STA 2573+00 TO STA 2583+00	34		130		18	323			2	2		1						
19 OF 28	STA 2583+00 TO STA 2593+00	86		206		20	240		3				2						
20 OF 28	STA 2593+00 TO STA 2603+00																		
21 OF 28	STA 2603+00 TO STA 2613+00																		
22 OF 28	STA 2613+00 TO STA 2623+00		101			18	300		1	2	2		1						
23 OF 28	STA 2623+00 TO STA 2633+00	10				29	489		2	1			2						
24 OF 28	STA 2633+00 TO STA 2643+00			90	99	30	397		3	2	2		3						
25 OF 28	STA 2643+00 TO STA 2653+00	27				23	365			1			2						
26 OF 28	STA 2653+00 TO STA 2663+00	151				33	687						1						
27 OF 28	STA 2663+00 TO STA 2673+00					7	113						1						
28 OF 28	STA 2673+00 TO END PROJECT																		
	*MISCELLANEOUS REPAIR														5000	5000	2	2	
	RONALD REAGAN SUBTOTAL	428	563	426	99	333	4852	2	19	20	14	100	25	1	5000	5000	2	2	1

PLACEMENT OF FENCE AND GATES TO BE DETERMINED IN THE FIELD BY OBSERVER

4

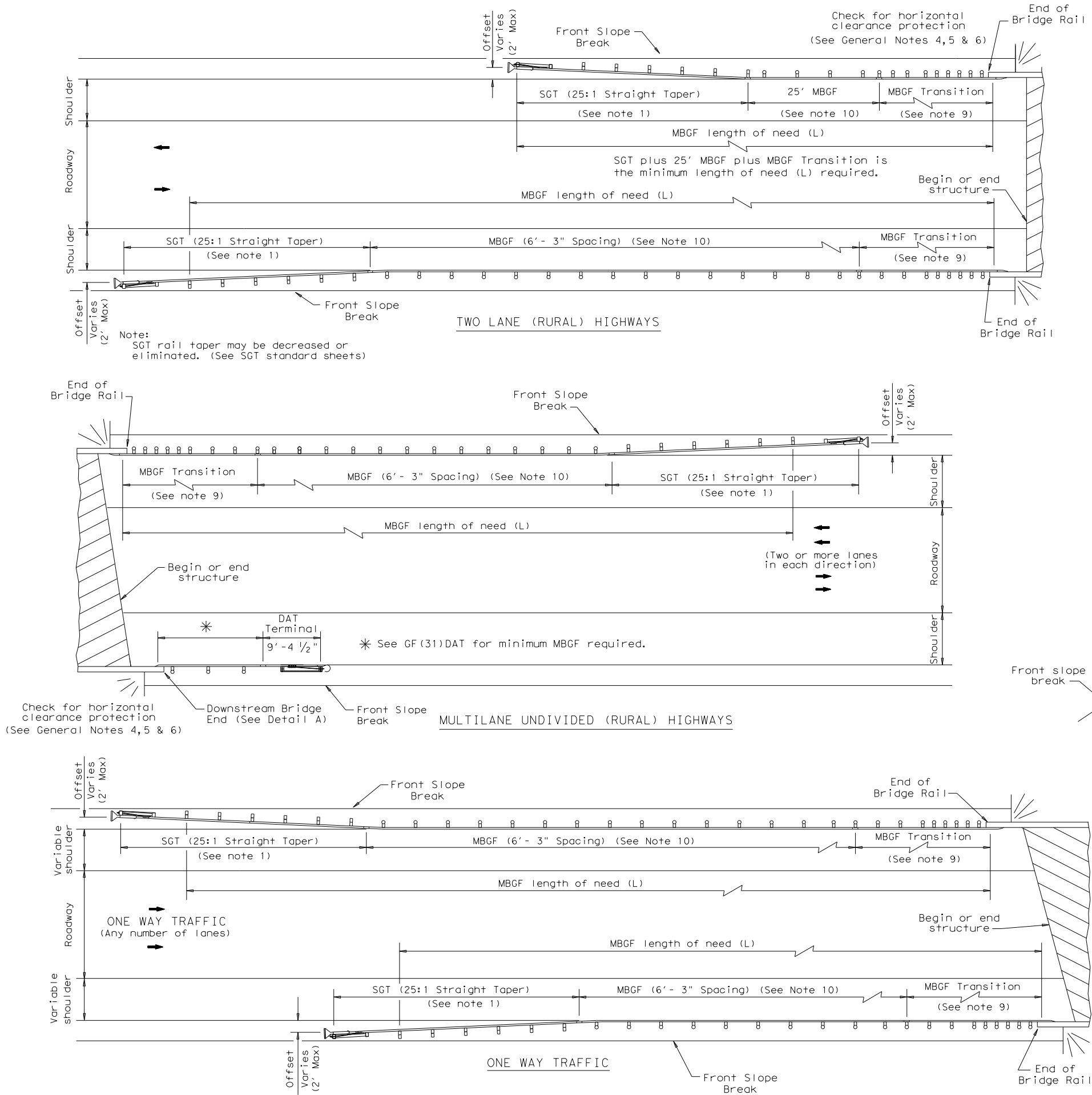
	RFI 44 - MBGF TRANS	ANK	1/31/25
	CULVERT ADJUSTED FOR GRADING	CAS	1/22/25
	RFI 33 - RIPRAP UPDATES	ANK	12/20/24
	RFI 22 - BRIDGE DRAIN RIPRAP	BAM	11/14/24
NO.	REVISION		BY DATE

RONALD REAGAN BLVD.
SUMMARY OF ROADWAY ITEMS

Designed: ANK	FED. RD. DIV. NO. X	STATE TEXAS	PROJECT NO.		HIGHWAY NO.	
Checked: ANK						
Drawn: ANK	DIST.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
Checked: ANK		WILLIAMSON				21

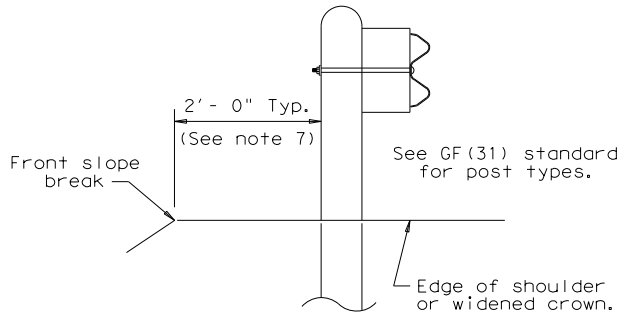
DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:

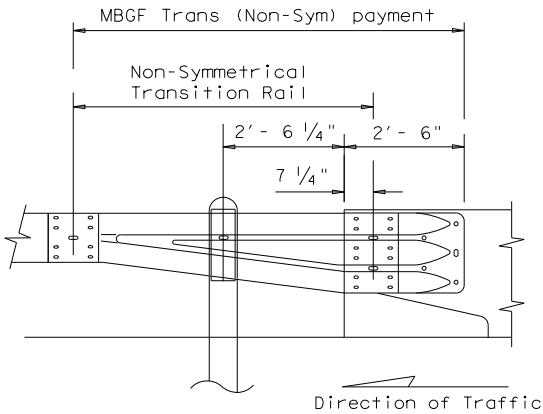


GENERAL NOTES

- For more detail: See GF(31), SGT()31, GF(31)TR, and GF(31)TL2 standard sheets.
- Quantities of metal beam guard fence (MBGF) at individual bridge ends are as shown in the plans.
- Use average daily traffic (ADT) for the current year to determine MBGF length of need in accordance with the Roadway Design Manual unless otherwise specified. Where significant traffic volume growth is anticipated on low volume (0-750 ADT) highways, use length determinations for the higher volume category.
- MBGF may not be required to shield departure end of bridge unless other obstacles within the horizontal clearance limits or opposing traffic indicate a MBGF consideration.
- Downstream anchor terminals (DAT) are only for downstream end anchorage use, outside the horizontal clearance area of opposing traffic.
- Direct connection of MBGF to concrete rails are only for downstream rail connections outside the horizontal clearance area of opposing traffic. (This requires a minimum of three standard line posts plus the DAT terminal, See Detail A)
- The crown shall be widened to accommodate MBGF. Typically the "front slope" break should be 2'-0" from the back of the MBGF post. This applies to new construction on new alignment or where existing roadway cross section is to be widened to increase roadway width. This does not apply to rehabilitation work where existing roadway crown width is to be retained (See Typical Cross Section at MBGF).
- For restrictive bridge widths: The MBGF should be properly transitioned from the existing bridge rail to the adjoining MBGF (See MBGF Transition Standards). Metal beam guard fence at these bridge location(s) shall be flared at the rate of 25:1 or flatter, and be of the length necessary to locate the terminal end at the 2 ft. "maximum" offset from the shoulder edge in the approach direction.
- Transition length and post spacing will vary depending on the transition type. Transition type will be shown elsewhere in the plans.
- A minimum 25' length of MBGF will be required.



TYPICAL CROSS SECTION
AT MBGF



Note:
All rail elements shall be lapped in the direction of adjacent traffic.

DETAIL A

Showing Downstream Rail Attachment



BRIDGE END DETAILS (METAL BEAM GUARD FENCE APPLICATIONS TO RIGID RAILS)

BED-14

FILE: bed14.dgn	DN: TxDOT	CK: AM	DW: BD/VP	CK: CGL
© TxDOT: December 2011	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED APRIL 2014 SEE (MEMO 0414)	DIST	COUNTY	SHEET NO.	214A

