SUBJECT: PLANS AND PROPOSAL ADDENDUMS PROJECT: C 923-00-67 CONTROL: 0923-00-067 COUNTY: BROWN LETTING: 09/05/2024 REFERENCE NO: 0828 PROPOSAL ADDENDUMS ------PROPOSAL COVER X BID INSERTS (SH. NO.: ALL) X GENERAL NOTES (SH. NO.: ALL) _ SPEC LIST (SH. NO.: SPECIAL PROVISIONS: ADDED: DELETED: SPECIAL SPECIFICATIONS: ADDED: DELETED: X OTHER: SEE COMMENTS BELOW DESCRIPTION OF ABOVE CHANGES (INCLUDING PLANS SHEET CHANGES) **** BID INSERTS ***** REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 403-7001, 420-7146 ADDED THE FOLLOWING BID ITEMS: 458-7007, 542-7001 ***** GENERAL NOTES ***** REPLACED ALL SHEETS TO INCLUDE SPECIFICATION DATA. ***** PLAN SHEETS ***** SHEET 10, 10A-10B - REPLACED SHEETS DUE TO THE ABOVE CHANGES AND ITEM 8 UPDATES. SHEET 11,11A,12-14 - REPLACED DUE TO THE ABOVE CHANGES. SHEET 47 - REPLACE SHEET. SHEET 49 - REPLACE SHEET. SHEET 94 - REPLACE SHEET. DESCRIPTION OF ABOVE CHANGES (CONTINUED) (INCLUDING PLANS SHEET CHANGES)

SHEET	101	_	REPLACE	SHEET.
SHEET	110	-	REPLACE	SHEET.
SHEET	114	-	REPLACE	SHEET.
SHEET	120	-	REPLACE	SHEET.
SHEET	121	-	REPLACE	SHEET.

County:	Brown
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Sheet 10

Highway: Various

Control: 0923-00-067

GENERAL NOTES

TEST TO BE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION STANDARD TEST METHODS.

			Soil	
Item	Description		Constant	S
		Max	Max.	Min.
		LL.	PI	PI
132	Embankment (Final)(Ord Comp)(Ty C)	40	30	3

ENVIRONMENTAL GENERAL NOTES

The Contractor will not be allowed to store equipment, materials, incidentals, hazardous chemicals, petroleum products, concrete washouts, etc. in the Department's R.O.W. without written permission from the Engineer.

See the "Environmental" section of the plans for additional information.

To prevent spread of Zebra Mussels and other exotic species:

- 1. Spray/rinse all equipment and vehicles, using hot and/or high-pressure water as soon as possible after exiting the waterbody.
- 2. Drain all water from receptacles before leaving the area, and
- 3. Allow all equipment to dry completely before use in another waterbody
- 4. If zebra mussels are encountered at the project location, contractor will not transport any equipment from the site and will notify the TxDOT project engineer immediately.

For more detailed information, see: https://tpwd.texas.gov/fishboat/boat/protect_water/

TEXAS ONE CALL

Fiber optic cable systems, gas lines, underground power lines, water lines, sewer lines, and other various utilities may be buried within the project limits. Protection of these utility systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. The Contractor will telephone Texas One Call at 1-800-344-8377 (a 24-hour number), to determine if utilities are buried anywhere on the project in accordance with all UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY laws. This action; however, will in no way be interpreted as relief of responsibilities under the terms of the Contract as set out in the plans and specifications. Coordinate the repair of all damages caused by daily operations and have facilities restored to service in a timely manner as directed at no additional cost to TxDOT.

County: Brown

Highway: Various

GENERAL

Unless specifically noted as applying to only a certain project or projects, these general notes will apply to all projects associated to this contract.

-----Contractor guestions on this project are to be addressed to the following individual(s):

Email Address

Chris Graf, P.E. Jordan Perrv. P.E.

Name

Chris.Graf@txdot.gov jordan.perry@txdot.gov

Contractor questions will be accepted through email, phone, and in person by the above individual(s).

Questions may also be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address: https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors

All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

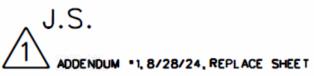
The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

The term "Article" or "Section" referred to hereon is defined in the forward of the Standard Specifications for Construction and Maintenance of Highways. Streets. And Bridges adopted by the Texas Department of Transportation September 2024.

ITEM 6 CONTROL OF MATERIALS

In accordance with **Section 6.10.1.2**, the Contractor will dispose of all painted steel at a steel recycling or smelting facility and a receipt will be required. In lieu of this, the Contractor has the option to either show proof that the paint is lead free or show proof that the lead paint has been abated by an abatement certified company. The Department will not be obligated for the cost of paint testing and/or abatement materials, processes, personnel, incidentals, etc.

The following structures have been identified to have lead paint present: 23-141-0-0251-05-022 23-167-0-0055-01-033 23-141-0-2199-01-001 J.S. 23-025-0-0054-07-030 23-068-0-0007-14-013



Sheet 10

Control: 0923-00-067

General Notes

Sheet B

County: E	Brown
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Highway: Various

23-215-0-0011-12-058 23-215-0-1031-01-011

ITEM 7 LEGAL RELATIONS AND RESPONSIBILITIES

No significant traffic generator events identified.

ITEM 8 PROSECUTION AND PROGRESS

Working days will be computed and charged in accordance with Section 8.3.1.4. "Standard Workweek".

Work will not be performed without time being charged unless otherwise exempted by the Section as defined above.

Contractor shall complete all repairs prior to moving to next structure.

PROJECT SCHEDULES

Bar graph scheduling will be required to be submitted and maintained monthly by the Contractor unless otherwise directed by the Engineer. (8.5.2.)

For monthly submittals, the Contractor will provide the schedule in an Adobe Acrobat compatible format (PDF file). If the Engineer requests the schedule in an electronic format, the Contractor will submit a schedule that is fully compatible with Primavera P6 Professional Release 15.

The Contractor should anticipate two (2) concrete structure repair crews, one (1) zone painting crew, and one (1) concrete crew.

ITEM 9 MEASUREMENT AND PAYMENT

Monthly estimates will be computed from the 26th of the previous month through the 25th of the current month unless otherwise approved in writing by the Engineer.

ITEM 401 FLOWABLE BACKFILL

All flowable backfill will be "Non-Excavatable" unless otherwise specified.

Adequate lead pressure shall be maintained with flowable fill in order to sufficiently fill voids under riprap.

Access holes may be required down slope in order to verify suitable backfilling operations.

Use a minimum of four (4) sacks cement per cubic yard.

Type I Cement is required if accelerator is used.

Sheet 10A

Control: 0923-00-067

County: Brown

Highway: Various

ITEM 420 CONCRETE SUBSTRUCTURES

All Class C Concrete has been measured for plan quantity payment.

ITEM 421 HYDRAULIC CEMENT CONCRETE

Furnish dome lids with 4" x 8" cylinder test molds.

Strength testing equipment is not required for Contract controlling test.

ITEM 427 SURFACE FINISHES FOR CONCRETE

Surface Area II will receive a rub finish

ITEM 429 CONCRETE STRUCTURE REPAIR

Clean debris from all abutment and interior bent caps. This work will be subsidiary to Item 429.

Submit repair materials to the Engineer. Materials must be capable of overhead repairs.

If required, drill and install anchor bars using TY III Class "C" epoxy adhesive meeting DMS-6100 "Epoxy Adhesives."

Prior to repairing concrete, field verify repair method and quantity.

Place silane over all repairs in accordance with the epoxy waterproofing & silane details sheet.

ITEM 432 RIPRAP

Locations and quantities may be varied as directed by the Engineer to accommodate field conditions.

Use dry riprap for the stone protection item. Stones shall be graded so as not to obstruct full channel flow. Filter fabric is required.

Limit excavation to within 1' of riprap. If excavation exceeds these limits without the Engineer's approval, riprap will be extended to the limits of the disturbance. No additional compensation will be allowed for this work.

ITEM 438 CLEANING AND SEALING JOINTS

Clean all joints full depth from top of the slab to the top of cap. This includes joints that have end diaphragms sitting on caps.

Clean all caps of loose material.



Sheet 10A

Control: 0923-00-067

J.S. ADDENDUM .1. 8/28/24, REPLACE SHEET

General Notes

Sheet D

County: B	lrown
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Highway: Various

Sheet 10B

Clean all steel and concrete with a 5000 psi water pressure blast and allow to dry thoroughly prior to placing joint material and sealant.

Clean and seal pan girder joints in accordance with Clean & Seal Joints Details (Pan Girder) Detail "B".

Use detail "A" for class 7 clean and seal joints.

Use detail "B" for class 3 clean and seal joints.

ITEM 502 BARRICADES, SIGNS, AND TRAFFIC HANDLING

The Contractor will be required to keep all TCP devices clean. If notified by the Engineer to clean the TCP devices, the Contractor will have until the end of that daylight period to comply. Failure to comply will result in a suspension of all work until the TCP devices are clean. Time will not be suspended.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

The Contractor will be responsible for maintaining the edge of the roadway throughout the project in a traversable condition and/or as directed by the Engineer. Salvaged milling may be used as directed by the Engineer. This work will not be paid for directly and will be considered subsidiary to Item 502 "Barricades, Signs, and Traffic Handling".

All devices shown on the TCP Standards are required and considered subsidiary to Item 502 unless specifically outlined elsewhere in the plans.

All signs will be constructed in accordance with the details shown in the current Standard Highway Sign Designs for Texas manual.

ITEM 505 TRUCK MOUNTED ATTENUATOR (TMA) AND TRAILER ATTENUATOR (TA)

Provide the number of vehicles with truck mounted attenuators (TMA) listed in the table below. The Contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMAs needed for the project.

STANDARD / PHASE	# TMA'S REQUIRED
TCP(1-1)	1
TCP(1-2)	1
TCP(1-4)	1

See sheet "TCP SUMMARY" in plans for estimated quantities.

County: Brown

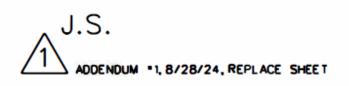
Highway: Various

ITEM 506 TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS

The Contractor should anticipate multiple mobilizations for the installation of BMP's on this project.

The Engineer will determine actual time and placement locations of BMP's and temporary measures. Contractor will not install BMPs until locations are approved by the Engineer.

Stockpile sites may be cleared of cover vegetation, but the vegetation root system will not be destroyed.



Control: 0923-00-067

General Notes

Sheet F



CONTROLLING PROJECT ID 0923-00-067

DISTRICT Brownwood HIGHWAY Various

COUNTY Brown

Estimate & Quantity Sheet

		CONTROL SECTIO	N JOB	0923-00	-067		
		PROJE	CT ID	A00176	103		
		CO	UNTY	Brow	'n	TOTAL EST.	TOTAL
		HIGI	HWAY	Vario	us	-	FINAL
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	-	
	100-7002	PREPARING ROW	STA	2.000		2.000	
	110-7002	EXCAV (CHANNEL)	CY	58.000		58.000	
	132-7005	EMBANK (FNL)(OC)(TY C)	CY	1,700.000		1,700.000	
	164-7007	BROADCAST SEED (TEMP WARM COOL)	SY	1,400.000		1,400.000	
	401-7001	FLOWABLE BACKFILL	CY	102.000		102.000	
	403-7001	TEMPORARY SPL SHORING	SF	680.000		680.000	
	420-7059	CL C CONC(PILE ENCASEMENT)	LF	9.250		9.250	
	420-7067	CL C CONC (MISC)	CY	17.500		17.500	
	420-7146	CL C CONC (WINGWALLS)	CY	16.800		16.800	
	428-7001	PENETRATING CONCRETE SURFACE TREATMENT	SY	184.000		184.000	
	429-7001	CONC STR REPAIR(CLEAN & COAT WTH EPOXY)	SF	32.000		32.000	
	429-7007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	542.000		542.000	
	429-7010	CONC STR REPAIR (PAN GIRDER HOLE REPR)	EA	107.000		107.000	
	432-7002	RIPRAP (CONC)(5 IN)	CY	25.200		25.200	
	432-7041	RIPRAP (STONE PROTECTION)(12 IN)	CY	60.000		60.000	
	432-7045	RIPRAP (STONE PROTECTION)(24 IN)	CY	283.000		283.000	
	432-7048	RIPRAP (STONE PROTECTION)(36 IN)	CY	402.500		402.500	
	438-7004	CLEANING AND SEALING EXIST JOINTS (CL3)	LF	351.750		351.750	
	438-7007	CLEANING AND SEALING EXIST JOINTS (CL7)	LF	1,062.000		1,062.000	
	458-7007	WATERPROOFING (TY 10)	SY	12.000		12.000	
	467-7199	SET (TY I)(S= 8 FT)(HW= 10 FT)(3:1)(C)	EA	4.000		4.000	
	480-7002	CLEAN EXIST CULVERTS	CY	89.000		89.000	
	495-7003	RAISING EXIST STRUCT (REF NO. 1)	EA	1.000		1.000	
	495-7004	RAISING EXIST STRUCT (REF NO. 2)	EA	1.000		1.000	
	499-7001	ADJUST STL SHOES	EA	1.000		1.000	
	500-7001	MOBILIZATION	LS	1.000		1.000	
	502-7001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	6.000		6.000	
	503-7001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY	5.000		5.000	
	505-7001	TMA (STATIONARY)	DAY	121.000		121.000	
	506-7039	TEMP SEDMT CONT FENCE (INSTALL)	LF	900.000		900.000	
	506-7041	TEMP SEDMT CONT FENCE (REMOVE)	LF	900.000		900.000	
	542-7001	REMOVE METAL BEAM GUARD FENCE	LF	350.000		350.000	
	658-7056	INSTL OM ASSM (OM-2Y)(WC)GND	EA	4.000		4.000	
	735-7060	DRIFTWOOD REMOVAL	CY	4.500		4.500	
	776-7024	REPLACE(STEEL RAIL)	LF	60.000		60.000	
	778-7004	CONCRETE RAIL REPLACEMENT (IN-KIND)	LF	25.000		25.000	
	780-7002	CNC CRACK REPAIR (DISCRETE)(INJECT)	LF	79.000		79.000	



ADDENDUM +1, 8/28/24, REPLACE SHEET

DISTRICT	COUNTY	CCSJ	SHEET
Brownwood	Brown	0923-00-067	11



CONTROLLING PROJECT ID 0923-00-067

DISTRICT Brownwood HIGHWAY Various

COUNTY Brown

Estimate & Quantity Sheet

		CONTROL SECTIO	ON JOB	0923-0	0-067		
		PROJ	ECT ID	A0017	6103		
		C	OUNTY	Brow	wn	TOTAL EST.	TOTAL FINAL
		HIG	HWAY	Vario	ous		
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL		
	4010-7003	STEEL BRIDGE ZONE PAINTING REF STR #2	EA	1.000		1.000	
	4010-7004	STEEL BRIDGE ZONE PAINTING REF STR #3	EA	1.000		1.000	
	4010-7005	STEEL BRIDGE ZONE PAINTING REF STR #4	EA	1.000		1.000	
	4010-7006	STEEL BRIDGE ZONE PAINTING REF STR #5	EA	1.000		1.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS	1.000		1.000	





ADDENDUM -1, 8/28/24, REPLACE SHEET

DISTRICT	COUNTY	CCSJ	SHEET
Brownwood	Brown	0923-00-067	11A

4010 7004 110 164 7002 7007 401 403 420 7001 7001 7146 420 428 429 7059 7001 7001 429 7007 429 7010
 432
 432
 432
 438

 7041
 7045
 7048
 7004
 438 7007 449 7001 480 7002 495 7003 495 7004 506 7039 506 735 776 7041 7060 7024 778 780 7004 7002 4010 7003 CLEANING AND SEALING EXIST JOINTS (CL3) CLEANING AND SEALING EXIST JOINTS CONCRETE SURFACE TREATMENT CONC STR REPAIR CONC STR REPAIR (CLEAN & COAT WTH BROADCAST SEED (TEMP WARM COOL) STEEL BRIDGE ZONE PAINTING REF STR #2 FLOWABLE BACKFILL CLEAN EXIST CULVERTS DRIFTWOOD REMOVAL CNC CRACK REPAIR (DISCRETE)(INJECT) STEEL BRIDGE ZONE PAINTING REF STR #3 CONC STR REPAIR (PAN GIRDER HOLE REPR) RIPRAP (STONE PROTECTION) (12 IN) RIPRAP (STONE PROTECTION) (24 IN) RIPRAP (STONE PROTECTION) (36 IN) RAISING EXIST STRUCT (REF NO. 1) RAISING EXIST STRUCT (REF NO. 2) REPLACE (STEEL RAIL) CONCRETE RAL REPLACEMENT (IN-KIND) CONC STR REPAIR (VERTICAL & OVERHEAD) TEMPORARY SPL SHORING FEMP SEDMT CONT FENCE (INSTALL) TEMP SEDMT CONT FENCE (REMOVE) CL C CONC (PILE ENCASEMENT) CL C CONC (WING WALLS) ANCHOR BOLTS EXCAVATION (CHANNEL) SAN SABA COUNTY СҮ SY SY SF SF EA CY EA LF LF EA EA CY SF CY LF Сү СҮ LF LF CY EA EA LF LF CY LF 232060027203053 US 190 BAGLEY SLOUGH 7 34 232060027204025 US 190 SIMPSON CREEK
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 4.5
 351.75 1 CHEROKEE CREEK 232060028906032 SH 16 6 232060272901002 FM 2732 240 13 DRAW #2 100 5 50 50 232060272901003 FM 2732 DRAW #3 100 120 3.8 10 100 100 232060027204026 US 190 FORT HOLLOW CREEK 2 10 232060027204027 US 190 BARNETT SPRINGS CREEK 1 7.5 1 232060028904033 SH 16 NORTH PRONG HORSE CREEK 12 232060028904035 SH 16 MIDDLE PRONG HORSE CREEK 24 232060124101004 FM 1031 DRY SIMPSON CREEK 5 1 36 5 232060272901004 FM 2732 DRAW #4 100 18 50 50 232060028904047 SH 16 SAN SABA RIVER RELIEF 2.5 12 2 232060028904037 SH 16 JERRYS CREEK 4 17 232060027203054 US 190 SAN SABA RIVER 60 1 0 300 2 360 16.8 0 19.5 16 95 36 0 33 0 351.75 0 1 0 1 1 200 200 0 60 0 47 0 0 TOTALS

	110 7002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002	4010 7003	4010 7004	4010 7005	4010 7006
LAMPASAS COUNTY	EXCAVATION (CHANNEL)	BROADCAST SEED (TEMP WARM COOL)	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WINGWALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CULVERTTS	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)	STEEL BRIDGE ZONE PAINTING REF STR#2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF STR #4	STELL BRIDGE ZONE PAINTING REF STR #S
37 3.3	CY	SY	СҮ	SF	CY	LF	SY	SF	SF	EA	C۷	CY	Сү	LF	LF	EA	СҮ	EA	EA	LF	LF	CY	LF	LF	LF	EA	EA	EA	EA
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231410027402012 US 183 BNSF RAILROAD																										1			
231410219901001 FM 2313 LAMPASAS RIVER				1)	i i				2 5	39				i ti		î î									í i	(Î		1	
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TOTALS	0	300	20	0	0	0	1.5	0	7	39	0	105	0	0	0	0	0	0	0	200	200	4.5	0	0	0	1	0	1	0
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	110 7002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002	4010 7003	4010 7004	4010 7005	4010 7006
COMANCHE COUNTY	EXCAVATION (CHANNEL)	BROADCAST SEED (TEMP WARM COOL)	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WING WALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CULVERTS	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)	STEEL BRIDGE ZONE PAINTING REF STR #2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF STR #4	STELL BRIDGE ZONE PAINTING REF STR #5
	СҮ	SY	СҮ	SF	СҮ	LF	SV	SF	SF	EA	СҮ	CY	CY	LF	LF	EA	CY	EA	EA	LF	LF	СҮ	LF	LF	LF	EA	EA	EA	EA
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TOTALS	0	0	30	0	0	9.25	20	6	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

J.S. ADDENDUM -1, 8/28/24, REPLACE SHEET

DATE

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	STELL BRIDGE ZONE PAINTING REF STR #4	STELL BRIDGE ZONE PAINTING REF STR #S
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	12	
	0	1





CONT	SECT	JOB	HIGHWAY
0923	00	067.etc.	VARIOUS
DIST		COUNTY	SHEET NO
BWD	1 3	BROWN,etc.	12

			110 7002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002
В	ROWN C	OUNTY	EXCAVATION (CHANNEL)	BROADCAST SEED (TEMP WARM COOL)	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WINGWALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CLUVERTS	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)
			CY	SY	CY	SF	СҮ	LF	SY	SF	SF	EA	CY	CY	CY	LF	LF	EA	СҮ	EA	EA	LF	LF	CY	LF	LF	LF
230250005407030	US 67	PECAN BAYOU		150											89							100	100				
230250048001003	SH 279	ROCKY CREEK							1.5	2	6																
230250012801034	US 377	BNSF RR & CARNEGIE ST							3		14						1062										
230250012703016	US 183	ELM CREEK							2.5		11															25	24
230250012703011	US 183	DRAW #11	20	100															26			50	50				
230250103501005	FM 585	SAND CREEK BRANCH		100															62			50	50				
230250263804004	SH 206	DINNER CREEK		100									60						1			50	50				
																											·1
	TOTA	LS	20	450	0	0	0	0	7	2	31	0	60	0	89	0	1062	0	89	0	0	250	250	0	0	25	24
																•											

	11 70	.10 002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002	4010 7003	4010 7004	4010 7005	4010 7006
STEPHENS COUNTY		(CHANNEL)	BROADCAST SEED (TEMP WARM COOL)	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WINGWALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CULVERT	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)	STEEL BRIDGE ZONE PAINTING REF STR #2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF STR #4	STELL BRIDGE ZONE PAINTING REF STR #5
	C	CY	SY	CY	SF	CY	LF	SY	SF	SF	EA	СҮ	CY	CY	LF	LF	EA	CY	EA	EA	LF	LF	CY	LF	LF	LF	EA	EA	EA	EA
232150001112058 LP 252 CADDO CREEK								6	8	47																8				
232150103101011 FM 578 CLEAR FORK BRAZOS RIV	R							130		260	32																			
232150129302001 FM 1148 VEALE CREEK				20																										
TOTALS	(0	0	20	0	0	0	136	8	307	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0
				•																· · · ·										

	110 7002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002	4010 7003	4010 7004	4010 7005	4010 7006
EASTLAND COUNTY	EXCAVATION (CHANNEL)	BROADCAST SEED (TEMP WARM COOL	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WINGWALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CULVERTS	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)	STEEL BRIDGE ZONE PAINTING REF STR #2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF SRE #4	STELL BRIDGE ZONE PAINTING REF SRE #5
	CY	SY	CY	SF	СҮ	LF	SY	SF	SF	EA	СҮ	СҮ	CY	LF	LF	EA	СҮ	EA	EA	LF	LF	СҮ	LF	LF	LF	EA	EA	EA	EA
230680263801005 SH 206 SABANNA CREEK DRAW	18	100										25								50	50								
TOTALS	18	100	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0

J.S. ADDENDUM =1, 8/28/24, REPLACE SHEET

4010 7003	4010 7004	4010 7005	4010 7006
STEEL BRIDGE ZONE PAINTING REF STR #2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF SRE #4	STELL BRIDGE ZONE PAINTING REF SRE #5
EA	EA	EA	EA
0	0	0	0



Texas Department of Transportation®

CONT	SECT	JOB		HIGHWAY							
0923	00	067.etc.	VARIOUS								
DIST		COUNTY		SHEET NO.							
BWD		BROWN,etc.	13								

	110 7002	164 7007	401 7001	403 7001	420 7146	420 7059	428 7001	429 7001	429 7007	429 7010	432 7041	432 7045	432 7048	438 7004	438 7007	449 7001	480 7002	495 7003	495 7004	506 7039	506 7041	735 7060	776 7024	778 7004	780 7002	4010 7003	4010 7004	4010 7005	4010 7006
MILLS COUNTY	EXCAVATION (CHANNEL)	BROADCAST SEED (TEMP WARM COOL)	FLOWABLE BACKFILL	TEMPORARY SPL SHORING	CL C CONC (WINGWALLS)	CL C CONC (PILE ENCASEMENT)	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (CLEAN & COAT WTH EPOXY)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CONC STR REPAIR (PAN GIRDER HOLE REPR)	RIPRAP (STONE PROTECTION) (12 IN)	RIPRAP (STONE PROTECTION) (24 IN)	RIPRAP (STONE PROTECTION) (36 IN)	CLEANING AND SEALING EXIST JOINTS (CL3)	CLEANING AND SEALING EXIST JOINTS (CL 7)	ANCHOR BOLTS	CLEAN EXIST CULVERTS	RAISING EXIST STRUCT (REF NO. 1)	RAISING EXIST STRUCT (REF NO. 2)	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	DRIFTWOOD REMOVAL	REPLACE (STEEL RAIL)	CONCRETE RAIL REPLACEMENT (IN- KIND)	CNC CRACK REPAIR (DISCRETE)(INJECT)	STEEL BRIDGE ZONE PAINTING REF STR #2	STEEL BRIDGE ZONE PAINTING REF STR #3	STELL BRIDGE ZONE PAINTING REF STR #4	STELL BRIDGE ZONE PAINTING REF STR #5
	CY	SY	СҮ	SF	CY	LF	SY	SF	SF	EA	CY	CY	CY	LF	LF	EA	СҮ	EA	EA	LF	LF	CY	LF	LF	LF	EA	EA	EA	EA
231670005501033 US 84 NORTH BENNETT CREEK	20	150										120								100	100						1		
231670005501031 US 84 M BENNETT CK (KEMP LAKE)		100	30										313.5							100	100								
													•																
TOTALS	20	250	30	0	0	0	0	0	0	0	0	120	313.5	0	0	0	0	0	0	200	200	0	0	0	0	0	1	0	0
																									•				

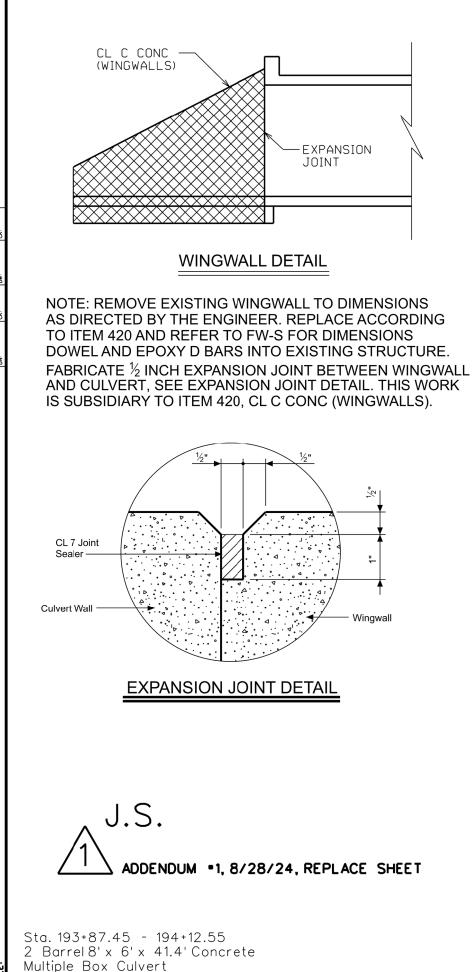
J.S. ADDENDUM -1, 8/28/24, REPLACE SHEET

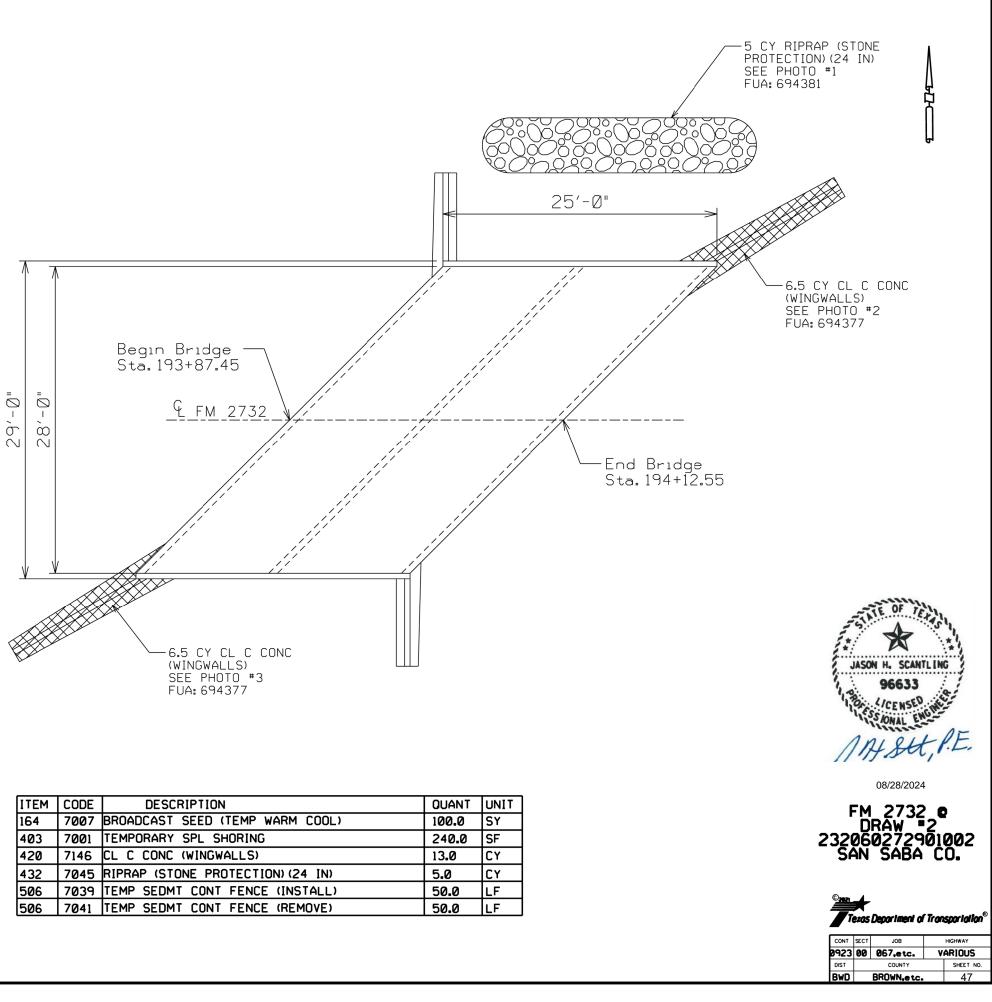
ADDITIONAL QUANTITIES FOUND ON SHEET 114 FOR US 183 @ DRAW #13



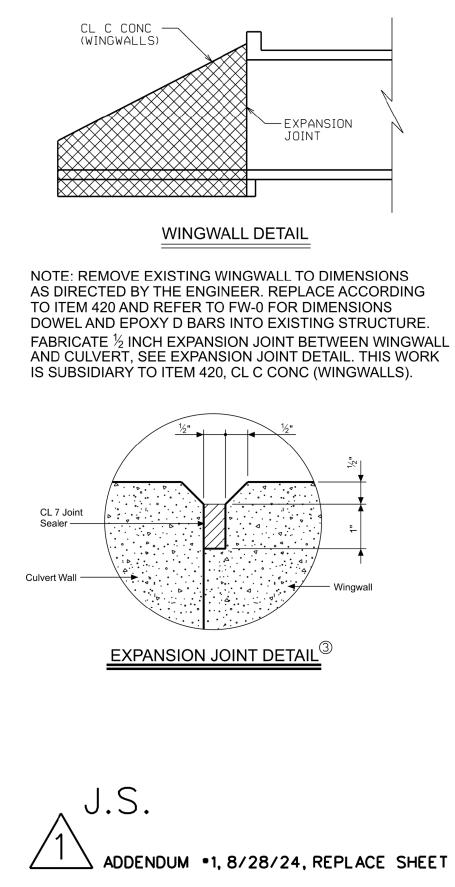


CONT	SECT	JOB		HIGHWAY						
0923	00	067.etc.	VARIOUS							
DIST		COUNTY		SHEET NO.						
BWD		BROWN,etc.		14						





ITEM	CODE	DESCRIPTION	QUANT	UNIT
164	7007	BROADCAST SEED (TEMP WARM COOL)	100.0	SY
403	7001	TEMPORARY SPL SHORING	240.0	SF
420	7146	CL C CONC (WINGWALLS)	13.0	CY
432	7045	RIPRAP (STONE PROTECTION) (24 IN)	5.0	CY
506	7039	TEMP SEDMT CONT FENCE (INSTALL)	50.0	LF
506	7041	TEMP SEDMT CONT FENCE (REMOVE)	50.0	LF

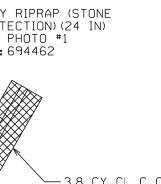


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Beain Bridge —	= Ø -	= 0 -			i I	1		
Begin Bridge Sta. 359+08.83	29'-0"	28,			i I I	1	1	
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		/						
2 CY RIPRAP (STONE PROTECTION) (24 IN) FUA: 694462								

ADDENDUM	•1, 8/28/24,	REPLACE	SHEET

ITEM	CODE	DESCRIPTION	QUANT	UNIT
164	7007	BROADCAST SEED (TEMP WARM COOL)	100.0	SY
403	7001	TEMPORARY SPL SHORING	120.0	SF
420	7146	CL C CONC (WINGWALLS)	3.8	CY
432	7045	RIPRAP (STONE PROTECTION) (24 IN)	10.0	CY
506	7039	TEMP SEDMT CONT FENCE (INSTALL)	100.0	SF
506	7041	TEMP SEDMT CONT FENCE (REMOVE)	100.0	SF

Sta. 359+08.83 - 359+41.17 3 Barrel - 10' x 6' x 29'-0'' Concrete Box Culvert





FM 2732

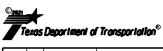
— End Bridge Sta. 359+41.17



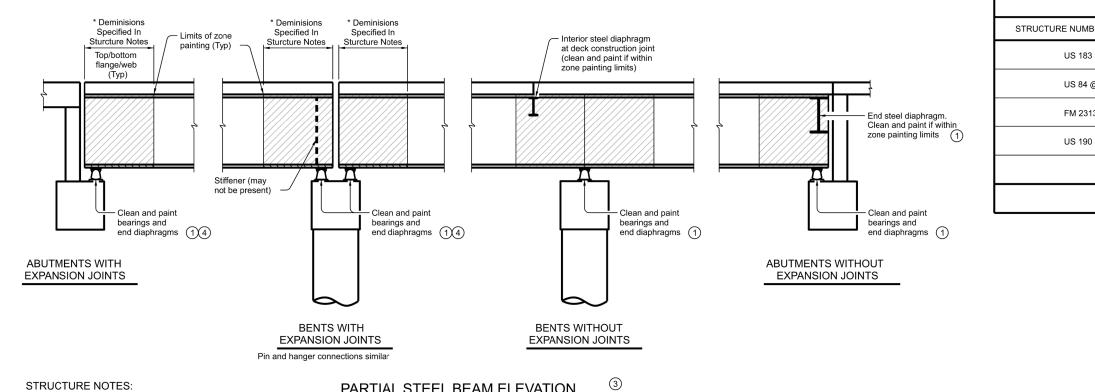


08/28/2024





CONT	SECT	CT JOB HIGHWAY							
0923	00	067.etc.	VARIOUS						
DIST		COUNTY		SHEET NO.					
BWD		BROWN,etc.		49					



Ref Str #1: Provide default system as shown on the plans sheets. Estimated total surface area to clean and paint is 2700 SF.

Ref Str #2: Provide default system to each painted beam end and bearing (9 beam lines) 1.5' from end of beam (6SF per beam end), at abutments and interior bents. Total estimated surface area to clean and paint is 450 SF. Additionally, high pressure wash end 2' of each weathering steel beam (3 beam lines) and bearings. Washing weathering steel beams ends is subsidiary to Zone Cleaning and Painting the painted beams.

Ref Str #3: Provide default system to each painted steel beam end and bearing (5 beam lines) 2' from end of beam (14SF per beam end), at abutments and interior bents. Total estimated surface area to clean and paint is 450 SF.

Ref Str #4: Provide alternative system to each painted steel beam end (2' from end), bearing, and end diaphragm (4 beam lines each end span, 3 end diaphragms each end span)-125SF per end span. Provide default system to 8 interior diaphragm lines and 2' total of beam and interior diaphragm-100SF per interior diaphragm line. Total estimated surface area to clean and paint is 1050SF.

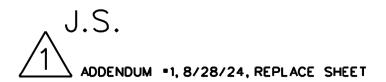
Ref Str #5: Provide default system to each painted steel beam end and bearing (5 beam lines) 2' from end of beam (15SF per beam end), at abutments and interior bents. Total estimated surface area to clean and paint is 900 SE

SPECIAL PROTECTION SYSTEM DEFAULT:

- Apply 0.5-1.0 mil DFT of penetrating seal to specified surfaces - Apply minimum 4.0 mils DFT topcoat to specified surfaces. - Apply an additional 14-18 WFT protection coat of HRCSA to all exposed bearing surfaces after other coats have cured and in accordance with manufacturer recommendations.

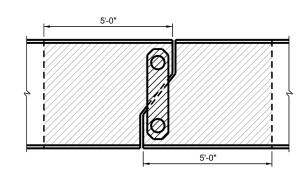
ALTERNATE:

- Apply 3.5 to 10 mils epoxy zinc primer to specified surfaces. - Apply minimum 4.0 mils DFT topcoat to specified surfaces. - Apply an additional 14-18 WFT protection coat of HRCSA to all exposed bearing surfaces after other coats have cured and in accordance with manufacturer recommendations.



PARTIAL STEEL BEAM ELEVATION

Dimensions shown are basis of paint estimate but do not define exact limits of repainting. Address deteriorated paint as directed by the Engineer. Painting perimeter does not need to be a vertical plane except on exterior surfaces of exterior beams.



PIN AND HANGER ASSEMBLY WITH ZONE PAINT LIMITS

Showing example pin and hanger system. Pin and hanger system may vary from what is shown.

ZONE PAINTING NOTES:

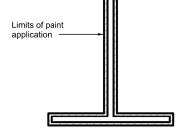
Prepare the surfaces to be cleaned by using hand tools, vacuuming, and water blasting as described in Special Specification 4010, "Steel Bridge Zone Painting" for Default Special Protection System. Abrasive blast and achieve SSPC SP10/SP11 (near white metal) for the Alternate Special Protection System.

Water blast all bearings for a minimum of 1 minute each while moving nozzle to thoroughly clean all surfaces. Keep nozzle no further than 6 inches from the surface. Blast concealed surfaces of end diaphragms below bridge expansion joints.

Use oil-free compressed air to blow out tightly confined locations.

Probe around edges of remaining paint with hand scraper to ensure all delaminated paint is removed.

For zone painting steel pilings, excavate a minimum of 1'-0" below existing ground level around each piling. Re-establish ground level once topcoat is dry to the touch.



STEEL BEAM CROSS SECTION WITH ZONE PAINT LIMITS

GENERAL NOTES:

Clean and paint the structure in accordance with Special Specification 4010, "Steel Bridge Zone Painting." Provide potable water for water blasting steel. Water from municipal supplies approved by the Texas Department of Health will not require testing. When water is provided from another source, test for chlorides and provide water with a maximum chloride concentration of 500 ppm (500 mg/L). The default Special Protection System includes:

- Penetrating Sealer (DMS-8101)
- Top Coat (DMS-8105)
- The Alternate Special Protection System includes: - Epoxy Zinc Primer (DMS-8101)
- Top Ccat (DMS-8105), Provide a High Ratio Calcium Sulfonate (HRCSA) top coat
- for bearings. Provide compatible penetrating sealer and top coat from

the same manufacturer. Tint the proposed paint system to match the existing

bridge paint color. Select the proposed paint color from the Federal Standard Colors list. Submit proposed paint color samples to the Engineer for approval before paint purchase.

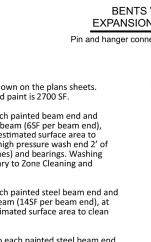


TABLE OF ESTIMATED OLIANTITIES (2)											
TABLE OF ESTIMATED QUANTITIES											
RE NUMBER (& FEATURE CROSSED) REFERENCE NUMBER QUANTITY PER STRUCT											
US 183 @ BNSF RAILROAD	#2	450									
US 84 @ NORTH BENNETT CREEK	#3	450									
FM 2313 @ LAMPASAS RIVER	#4	1050									
US 190 @ SIMPSON CREEK	#5	900									
	TOTAL QUANTITY (SF)	5550									

- (1) Bearings and diaphragms may vary from what is shown.
- 2 Paint quantities shown include allowance for bearings, diaphragms and other minor areas as determined by the Engineer
- (3) Showing minimum areas of paint application. Spot clean and paint other locations on the bridge as directed by the Engineer
- (4) See "Cleaning at Expansion Bearings" detail.



08/28/2024

SHEET 1 OF 2

Bridge Division

ZONE PAINTING DETAILS

Texas Department of Transportation

*

FILE:		dn: TxD	OT	ск: ТхDOT	DW:	TxDOT		ск: ТхDOT	
C TxDOT	February 2024	CONT	SECT	JOB		HIGHWAY			
	REVISIONS	0923 00 067,etc.				V	VARIOUS		
		DIST		COUNTY			:	SHEET NO.	
		BWD		BROWN,	etc.			94	

Culvert Station and/or Creek Name followed by applicable end (Lt, Rt or Both)	Description of Box Culvert No. Spans ~	Max Fill Height	Applicable Box Culvert Standard 4	Applicable Wingwall or End Treatment Standard	Skew Angle (0°,15°, 30° or	Side Slope or Channel Slope Ratio	T Culvert Top Slab Thickness	U Culvert Wall Thickness	C Estimated Curb Height	Hw (1) Height of Wingwall	A Curb to End of Wingwall	B Offset of End of Wingwall	Lw Length of Longest Wingwall	Ltw Culvert Toewall Length	Atw Anchor Toewall Length	Riprap Apron	Class "C" Conc (Curb)	Class 3 "C" Conc (Wingwall)	Total Wingwall Area
	Span X Height	(Ft)	_		45°)	(SL:1)	(ln)	(In)	(Ft)	(Ft)	(Ft)	(Ft)	(Ft)	(Ft)	(Ft)	(CY)	(CY)	(CY)	(SF)
FM 2732 @ DRAW #2 LEFT	2 ~ 8' X 6'	1'	MC-8-13	FW-S	45	2:1	8	7	0.833	7.25	13.833	23.96	27.667	25.102	N/A	0.0	0.0	6.5	105.0
FM 2732 @ DRAW #2 RIGHT	2 ~ 8' X 6'	1'	MC-8-13	FW-S	45	2:1	8	7	0.833	7.25	13.833	23.96	27.667	25.102	N/A	0.0	0.0	6.5	105.0
FM 2732 @ DRAW #3	3 ~ 10' X 6'	1'	MC-10-7	FW-0	0	2:1	8	7	0.833	7.25	13.833	7.987	15.973	32.333	N/A	0.0	0.0	3.8	61.0
		<u>+</u>																	
		<u>+</u>																	
																			

NOTES:

BRIDGE

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9:40:22 EAM_Desi

8/28/2024 Tr\BWDDSGT

DATE:

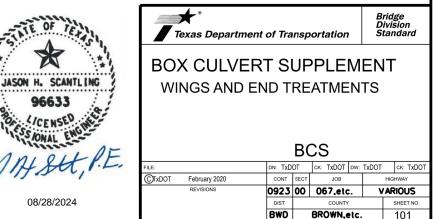
Skew = 0° on SW-0, FW-0, SETB-CD, SETB-SW-0, and SETB-FW-0 standard sheets; 30° maximum for safety end treatment

- 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.

- (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.

ADDENDUM •1, 8/28/24, REPLACE SHEET

J.S.



08/28/2024

I. WORK AT CROSSING LOCATIONS (AT GRADE, HIGHWAY OVERPASS, HIGHWAY **UNDERPASS, PEDESTRIAN, OR CLOSED/ABANDONED)**

□ This project is adjacent or parallel work, not within RR ROW: DOT No.: 024701G Crossing Type: Highway Overpass RR Company Operating Track at Crossing: CTXR RR Company Owning Track at Crossing: CTXR RR MP: 2.880 RR Subdivision: SAN SABA City: Lometa County: Lampasas CSJ at this Crossing: 0923-00-067 Latitude: 31.244153 Longitude: -98.424878

Scope of Work, including any TCP, to be performed by State Contractor:

Cleaning and painting steel beams and bearings. Work will be performed in railroad ROW. Traffic control plan employed by the state contractor will be TCP (1-1A).

Bridge: US 183 @ CTXR, Lampasas County NBI#: 231410027402012

Scope of Work to be performed by Railroad Company:

Flagging Only

II. FLAGGING & INSPECTION

No. of Days of Railroad Flagging Expected: 5

On this project, night or weekend flagging is:

□ Expected

Not Expected

Flagging services will be provided by:

□ Railroad Company: 1) Txdot will pay flagging invoices. Flagging Agreement with railroad will be needed or, 2) Permitted crossing. Railroad company to provide flagging.

☑ Outside Party: Contractor will pay flagging invoices to be reimbursed by TxDOT

Contractor must incorporate flaggers into anticipated construction schedule. The Railroad requires a 30-day notice if their flaggers are to be utilized. If Contractor falls behind schedule due to their own negligence and is not ready for scheduled flaggers, any flagging charges will be paid by Contractor.

Contact Information for Flagging:

UP.info@railpros.com Call Center 877-315-0513, Select #1 for flagging UP.request@nrssinc.net Call Center 877-984-6777

- BNSF BNSFinfo@railprosfs.com Call Center 877-315-0513, Select #1 for flagging
- CPKCR KCS.info@railpros.com Call Center 877-315-0513, Select #1 for flagging Bottom Line On-Track Safety Services bottomline076@aol.com, 903-767-7630
- ☑ OTHERS:

cscus@omnitrax.com Call Center 877-276-3777, Select #2 for flagging

Contractor must incorporate railroad construction inspection into anticipated construction schedule.

☑ Not Required

□ Required. Contact Information for Construction Inspection:

III. CONSTRUCTION WORK TO BE PERFORMED BY THE RAILROAD

П	Reg	uired.
	1100	uncu.

☑ Not Required

Railroad Point of Contact:

Coordinate with TxDOT for any work to be performed by the Railroad Company. TxDOT must issue a work order for any work done by the Railroad Company prior to the work being performed.

IV. RAILROAD INSURANCE REQUIREMENTS

The Contractor shall confirm the insurance requirements with the Railroad as the insurance limits are subject to change without notice.

Insurance policies and corresponding certificates of insurance must be issued by the contractor on behalf of the Railroad. Separate insurance policies and certificates are required when more than one Railroad Company is operating on the same right of way, or when several Railroad Companies are involved and operate on their own separate right of ways.

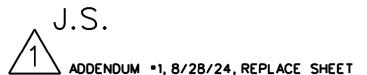
No direct compensation will be made to the Contractor for providing the insurance coverages shown below or any deductibles. These costs are incidental to the various bid items.

	Escalated Limits
Type of Insurance	Amount of Coverage (Minimum)
Workers Compensation	\$500,000 / \$500,000 / \$500,000
Commercial General Liability	\$2,000,000 / \$4,000,000
Business Automobile	\$2,000,000

Railroad Protective Liability Limits

- Not Required
- \$2,000,000 / \$6,000,000 ☑ Non - Bridge/Typical Maintenance Projects. Includes repairs to overpass/underpass and culvert structures \$5,000,000 / \$10,000,000
- □ Bridge Structure Projects. Includes new construction or replacement of overpass/ underpass structures

□ Other:



Not Required

□ BNSF:

To view previously approved CROE templates agreed upon between the State and Railroad, see: https://www.txdot.gov/business/resources/railroad-highway-crossing/sample-right-of-entryagreements.html

Approved CROE templates are not to be modified by the Contractor.

Contractor shall not operate within Railroad Right of Way without an executed Construction & Maintenance Agreement between the State and the Railroad and an executed CROE between the Contractor and the Railroad if required on project.

UPRR, BNSF, CPKCR will not accept on-track safety training certificates from other Railroads. Refer to each Railroad's specific contractor right of entry for training information.

Know and follow the Contractor's Right of Entry Agreement EXHIBIT D, MINIMUM SAFETY REQUIREMENTS regarding clothing, personal protective equipment, and general safety requirements.

In Case of R

Call: CTXR Railroad Em Location: DO **RR** Milepost Subdivision

V. CONTRACTOR'S RIGHT OF ENTRY (CROE)

- □ Required: UPRR Maintenance Consent Letter. TxDOT to assist
- □ Required: TxDOT to assist in obtaining the UPRR CROE
- Required: Contractor to obtain

- https://bnsf.railpermitting.com
- https://jllrpg.360works.com/fmi/webd/rpo_web_kcs.fmp12 ☑ Other Railroads: CTXR: https://omnitrax.com/track-access/

VI. RAILROAD COORDINATION MEETING

A Railroad Coordination Meeting is required. See item 5, Article 8.1, of the Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges Manual for more details.

VII. RAILROAD SAFETY ORIENTATION

A. Complete the Railroad's course "Orientation for Contractor's Safety," and maintain registration prior to working on the Railroad's property. This course is required to be completed annually by Contractor and Subcontractor personnel working on site.

VIII. SUBCONTRACTORS

Contractor shall not subcontract work without written consent of TxDOT. Subcontractors are subject to the same insurance requirements as the Prime Contractor.

IX. EMERGENCY NOTIFICATION

Railroad Emergency
ergency Line at: <u>(888) 533-9416</u> OT <u>024701G</u> t: 2.880
SAN SABA

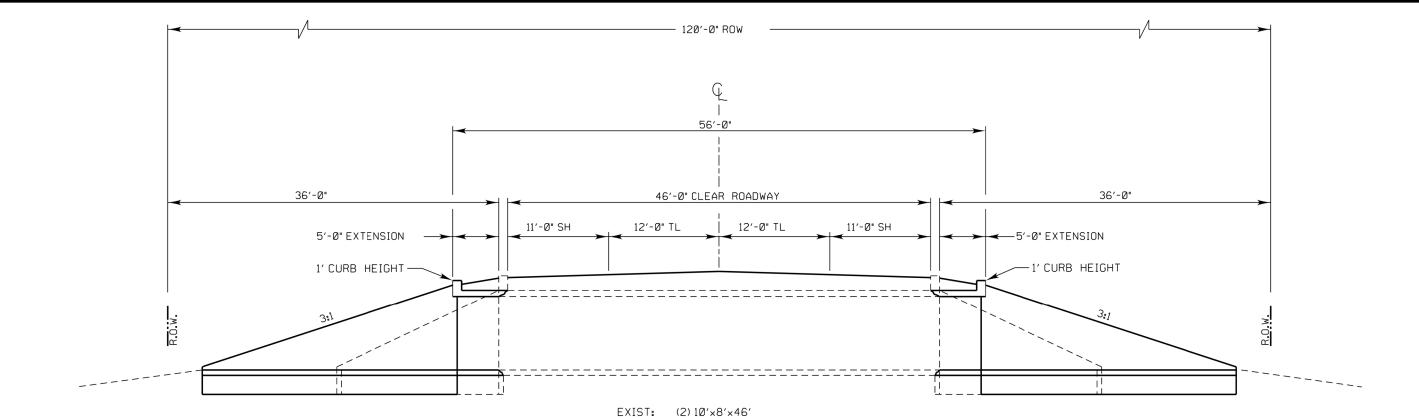


Texas Department of Transportation

Rail Division

RAILROAD SCOPE OF WORK PROJECT SPECIFIC DETAILS

FILE: rr-scope-of-work.pdf			DOT	CK:	DW:			CK:
© TxDOT	June 2014	CONT	CONT SECT JOB HIGHWA				HWAY	
0/0000	REVISIONS	0923	00	067, ETC.		VARIO	DUS	;
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PROP: (2)10'×8'×56'MC-10-7,MC-MD,SETB-FW-0

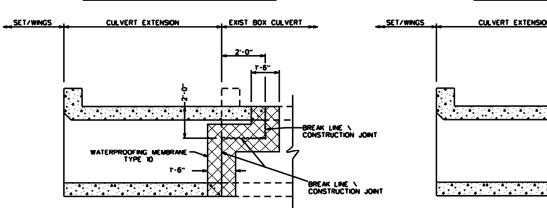
	ITEM	CODE	DESCRIPTION	QTY	UNIT	FINAL
	0100	7002	PREPARING ROW	2.0	STA	
	0132	7005	EMBANKMENT(FNL)(OC)(TY C)	1700.0	CY	
	0403	7001	TEMPORARY SPL SHORING	320.0	LF	
x	0420	7067	CL C CONC (MISC)	17.5	CY	
	0432	7002	RIPRAP (CONC) (5 IN)	25.2	CY	
	0458	7007	WATERPROOFING (TY 10)	12.0	SY	
	0467	7199	SET(TY I)(S=8FT)(HW=10FT)(3:1)(C)	4.0	ΕA	
x	0542	7001	REMOVE METAL BEAM GUARD FENCE	350.0	LF	
	0658	7056	INSTALL OM ASSM(OM-2Y)(WC)GND	4.0	ΕA	

*CL C CONC (MISC) SHALL BE USED FOR CULVERT EXTENSION. QUANTITY INCLUDES CURBS.

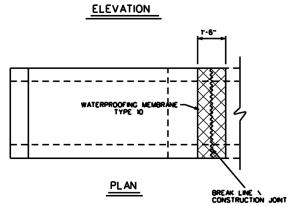
* THE REMOVAL OF ALL EXISTING METAL BEAM GUARD FENCE, METAL BEAM GUARD FENCE TRANSITIONS, SINGLE GUARDRAIL TERMINALS, AND TURNDOWNS WILL BE PERFORMED IN ACCORDANCE WITH ITEM 542, REMOVE METAL BEAM GUARD FENCE.

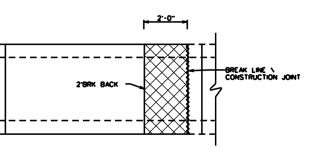


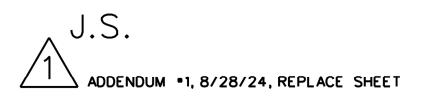
2'BREAK BACK DETAIL



ELEVATION



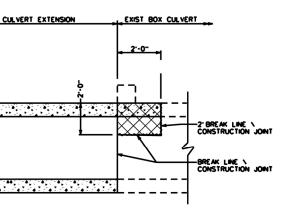




NOTE: PLACE WATERPROOFING MEMBRANES IN ACCORDANCE WITH ITEM (1458).CENTERED ON CONCRETE CONSTRUCTION JOINTS ON TOP DECK AND EXTERIOR WALLS.

Ā 11:50:52 8/28/2024 DATE: FILF:







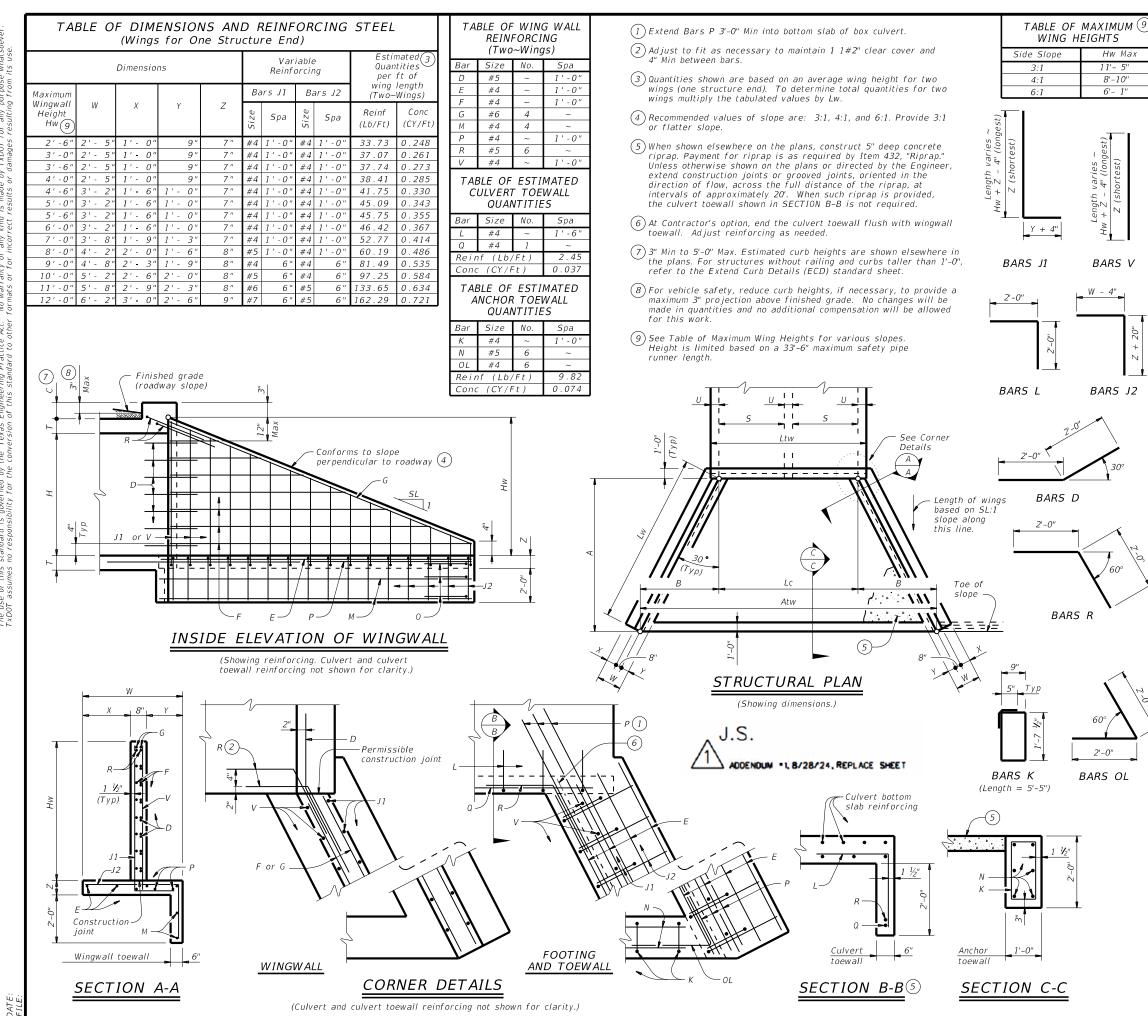




08/28/2024



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	BWD	BROWN,etc.			114		



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Hw = H + T + C - 0.250'(9)A = (Hw - 0.333')(SL) $B = (A) (tan (30^{\circ}))$ $Lw = (A) \div cos (30^\circ))$ For cast-in-place culverts: Ltw = (N) (S) + (N + 1) (U)For precast culverts: Ltw = (N) (2U + S) + (N - 1) (0.500')Lc = (Ltw) - (2U)Atw = (Lc) + (2B)Total Wingwall Area (two wings ~ SF) = (Hw + 0.333') (Lw)Ηw = Height of wingwall (feet) Atw = Anchor toewall length (feet) Lw = Length of wingwall (feet) = Number of culvert barrels SL:1 = Side slope ratio (horizontal : 1 vertical) Ltw = Culvert toewall length (feet) Lc = Culvert curb between wings (feet) See applicable box culvert standard for H, S, T, and U values. See Table of Maximum Wall Heights for limits on Hw.

WING DIMENSION CALCULATIONS:

MATERIAL NOTES:

Provide Grade 60 reinforcing steel. Provide galvanized reinforcing steel if required elsewhere in the plans. Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise

Provide Class "C" concrete (f`c = 3,600 psi).

ASTM A53 (Type E or S, Gr B), ASTM A500 Gr B, or API 5LX52. Provide ASTM A307 bolts and nuts.

Provide ASTM A36 steel plates.

Galvanize all steel components, except reinforcing unless required elsewhere in the plans, after fabrication.

Repair galvanizing damaged during transport or construction in accordance with the Item 445, "Galvanizing."

For optional adhesive anchors, install adhesive anchorages in accordance with the manufacturer's instructions including hole size, drilling equipment and method, hole cleaning equipment and method, mixing and dispensing adhesive, and anchor insertion. Do not alter the manufacturer's mixing nozzle or dispenser. Provide anchorage rods that are clean and free of grease, oil, or any other foreign material. Demonstrate hole cleaning method to the Engineer for approval and continue the approved process for all anchorage locations. Test adhesive anchors in accordance with Item 450.3.3, "Tests." Test 3 anchors per 100 anchors installed.

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications. The safety end treatments 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.

When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer

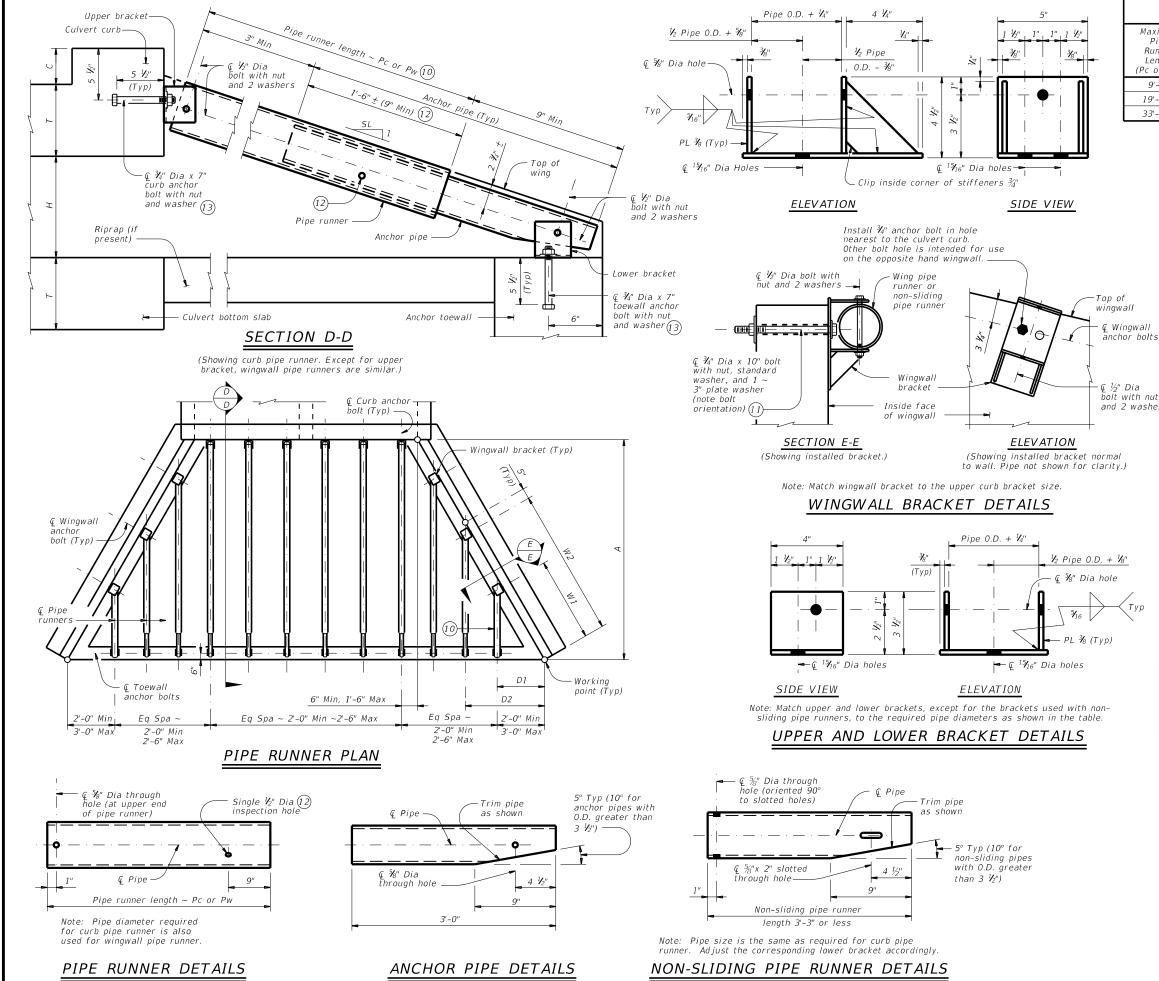
All bolts, nuts, washers, brackets, angles, and pipe runners are considered parts of the safety end treatment for payment. The quantities for pipe runners, reinforcing steel, and concrete, resulting from the formulas given herein are for Contractor's information only

See the Box Culvert Supplement (BCS) standard sheet for additional dimensions and information.

> Cover dimensions are clear dimensions, unless noted otherwise einforcing dimensions are out-to-out of bars.

SHEET 1 OF 3								
Texas Department	Di	Bridge Division Standard						
SAFETY END TREATMENT WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS TYPE I ~ CROSS DRAINAGE								
SETB-FW-0								
FILE:	DN: GAR		CK: CAT DV	: TxDOT	ск: ТхДОТ			
CTxDOT February 2020	CONT	SECT	JOB	/	HIGHWAY			
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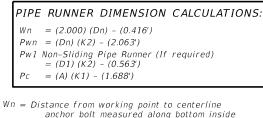


MAXIMUM PIPE RUNNER LENGTHS AND REQUIRED PIPE RUNNER SIZES

Maximum Pipe Runner Length (Pc or Pw)		equired Pip Runner Size		Required Anchor Pipe Size						
	Pipe Size	Pipe 0.D.	Pipe I.D.	Pipe Size	Pipe 0.D.	Pipe I.D.				
9'-4"	3" STD	3.500"	3.068"	2" STD	2.375"	2.067"				
19'-0''	4" STD	4.500"	4.026"	3" STD	3.500"	3.068"				
33'-6"	5" STD	5.563"	5.047"	4" STD	4.500"	4.026"				

(10) If pipe runner length (Pw) is 1'-9" or less replace the normal ripe runner and anchor pipe with a single non-sliding pipe runner. See Non-Sliding Pipe Runner Details for additional information.

- (11) At Contractor's option, \mathcal{V}_8 " diameter hole may be formed or cored drilled. Percussion drilling is not permitted. Adjust placement of reinforcing steel as necessary to avoid bolt holes.
- (2) After installation of pipe runner, use the $\frac{1}{2''}$ inspection hole to ensure that the lap of the anchor pipe with the pipe runner is adequate.
- (13) At Contractor's option, an adhesive anchor may be used. Provide $\frac{Z}{4}$ " Dia adhesive anchors that meet the requirements of ASTM A307 Gr A fully threaded rods. Embed threaded rods into curb, wingwalls, and toewall using a Type III, Class C, D, E, or F anchor adhesive. Minimum embedment depth is 5 ½". Provide anchor adhesive able to achieve a basic bond strength in tension. Nba. of 20 kips. Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use.
- <u>î ½</u>" Dia bolt with nut and 2 washers



- face of wing (feet) Dn = Distance from working point to centerline pipe runner measured along outside face of anchor toewall (feet) Pw = Wingwall pipe runner length (feet)
- Pc = Curb pipe runner length (feet) K = Constant values for use in formulas Slope SL:1 K1 К2 $3:1 \sim 1.054 \sim 1.826$ $4:1 \sim 1.031 \sim 1.785$
- 6:1 ~ 1.014 ~ 1.756 n = Wing pipe runner number
- J.S. ADDENDUM =1, 8/28/24, REPLACE SHEET

SHEET 2 OF 3								
Texas Department	of Transportation				DI	Bridge Division Standard		
SAFETY END TREATMENT WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS TYPE I ~ CROSS DRAINAGE SETB-FW-0								
FILE:	DN: GAF		ск: САТ		TxD0T	-		
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