

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: BR 2023(404)

CONTROL: 0035-04-039

COUNTY: CONCHO

LETTING: 02/01/2023

REFERENCE NO: 0131

PROPOSAL ADDENDUMS

-
- PROPOSAL COVER
 - BID INSERTS (SH. NO.: 1 - 4)
 - GENERAL NOTES (SH. NO.:)

 - SPEC LIST (SH. NO.: 1 - 3)
 - SPECIAL PROVISIONS:)
 - ADDED:

 - DELETED:

 - SPECIAL SPECIFICATIONS:
 - ADDED:

 - DELETED:

 - OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

ADDED THE FOLLOWING BID ITEMS: 428-6001, 429-6002, 483-6006, 512-6001,
512-6049, 545-6005

DELETED THE FOLLOWING BID ITEMS: 427-6007, 483-6012, 495-6001, 512-6013,
512-6037, 545-6004

***** SPECIFICATION LIST *****

ADDED THE FOLLOWING PAY ITEMS: 428

DELETED THE FOLLOWING PAY ITEMS: 427, 495

***** PLAN SHEETS *****

SHEET 2: REMOVED SHEET 38

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 4: QUANTITIES REVISED DUE TO ABOVE CHANGES

SHEET 5, 7: REVISED TRAFFIC CONTROL PLAN

SHEET 25: REVISED RAIL REPAIR DETAILS

SHEET 26: REVISED SUBSTRUCTURE REPAIR DETAILS

SHEET 30: REVISED JOINT DETAILS


SHEET 36-37: RAIL RETROFIT SHEETS REMOVED AND REPLACED WITH T203

STANDARDS

SHEET 38: SHEET OMITTED

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Alfonso D. Perez

1/31/2023

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET ** HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

ALFONSO D. PEREZ 1/31/2023
 NAME DATE




Kenneth E. Gottleaber

1/31/2023


THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ON THIS SHEET *** HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

KENNETH E. GOTTLAEBER 1/31/2023
 NAME DATE

△	1/18/2023	QUANTITIES, JOINT AND REPAIR LAYOUT REVISED	AP
△	1/27/2023	QUANTITIES, TCP, REPAIR LAYOUT AND STANDARDS REVISED	AP
NO.	DATE	REVISION	APPROV.



F-12040



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US 83

INDEX OF SHEETS

HARDIN CREEK
07-048-0-0035-04-016

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	2
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83

P:_V-TPD\Projects\TX\2019\01902477X.04\1_Design\500_CADD\dgn\02_Plan_Files\01_general\02_HARDIN_CREEK\C_016_S_Index of Sheets.dgn
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 1/31/2023

SUMMARY OF TCP ITEMS									
LOCATION	502 6001	512 6001	512 6025	512 6049	545 6019	545 6003	545 6005	6001 6001	6185 6002
	BARRICADES, SIGNS AND TRAFFIC HANDLING	PORT CTB (FUR &INSTALL)(SGL SLP)(TY 1)	PORT CTB (MOVE)(SGL SLP)(TY 1)	PORT CTB (REMOVE)(SGL SLP)(TY 1)	CRASH CUSH ATTEN (INSTL)(S)(N) (TL3)	CRASH CUSH ATTEN (MOVE & RESET)	CRASH CUSH ATTEN (REMOVE)	PORTABLE CHANGEABLE MESSAGE SIGN	TMA (STATIONARY)
	MO	LF	LF	LF	EA	EA	EA	DAY	DAY
CSJ: 0035-04-039	3	1350	1350	1350	2	2	2	56	56
PROJECT TOTALS	3	1350	1350	1350	2	2	2	56	56

2

2

SUMMARY OF BRIDGE ITEMS											
LOCATION	361 6079	428 6001	429 6002	429 6007	438 6004	439 6016	454 6021	483 6006	483 6017	778 6015	
	FULL-DEPTH REPAIR CRCP (12"-14")	PENETRATING CONCRETE SURFACE TREATMENT	CONC STR REPAIR (EPOXY MORTAR)	CONC STR REPAIR (VERTICAL & OVERHEAD)	CLEANING AND SEALING EXIST JOINTS (CL 7)	CL CO CONC OVRLY(STL FBR REIN)(5 1/2IN)	TYPE A JOINT	HYDRO- DEMOLITION (1 1/2 IN)	MILLING CONCRETE SLAB (3IN)	CONCRETE RAIL REPLACEMENT (TYPE 203)	
	SY	SY	SF	SF	LF	SY	LF	SY	SY	LF	
CSJ: 0035-04-039	167	889	20	40	220	962	348	962	962	100	
PROJECT TOTALS	167	889	20	40	220	962	348	962	962	100	

1

2

SUMMARY OF PAVEMENT MARKINGS ITEMS										
LOCATION	666 6167	666 6205	666 6207	666 6300	666 6312	666 6315	672 6007	672 6009	678 6001	678 6033
	REFL PAV MRK TY II (W) 4" (BRK)	REFL PAV MRK TY II (Y) 4" (BRK)	REFL PAV MRK TY II (Y) 4" (SLD)	RE PM W/RET REQ TY I (W)4"(BRK)(10 0MIL)	RE PM W/RET REQ TY I (Y)4"(BRK)(10 0MIL)	RE PM W/RET REQ TY I (Y)4"(SLD)(10 0MIL)	REFL PAV MRKR TY I-C	REFL PAV MRKR TY II-A-A	PAV SURF PREP FOR MRK (4')	PAV SURF PREP FOR MRK (RPM)
	LF	LF	LF	LF	LF	LF	EA	EA	LF	EA
CSJ: 0035-04-039	200	200	200	200	200	200	10	10	1200	20
PROJECT TOTALS	200	200	200	200	200	200	10	10	1200	20

SUMMARY OF EROSION CONTROL ITEMS							
LOCATION	506 6021	506 6024	506 6035	506 6038	506 6039	506 6040	506 6043
	CONSTRUCTION EXITS (INSTALL) (TY 2)	CONSTRUCTION EXITS (REMOVE)	SANDBAGS FOR EROSION CONTROL	TEMP SEDMT CONT FENCE (INSTALL)	TEMP SEDMT CONT FENCE (REMOVE)	BIODEG EROSN CONT LOGS (INSTL) (8")	BIODEG EROSN CONT LOGS (REMOVE)
	SY	SY	EA	LF	LF	LF	LF
CSJ: 0035-04-039	78	78	76	300	300	400	400
PROJECT TOTALS	78	78	76	300	300	400	400

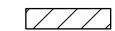

1/18/2023	QUANTITIES REVISED	AP
1/27/2023	QUANTITIES REVISED	AP
NO	DATE	REVISION
		APPROV



US 83
SUMMARY OF
QUANTITIES
HARDIN CREEK
07-048-0-0035-04-016
SHEET 1 OF 1

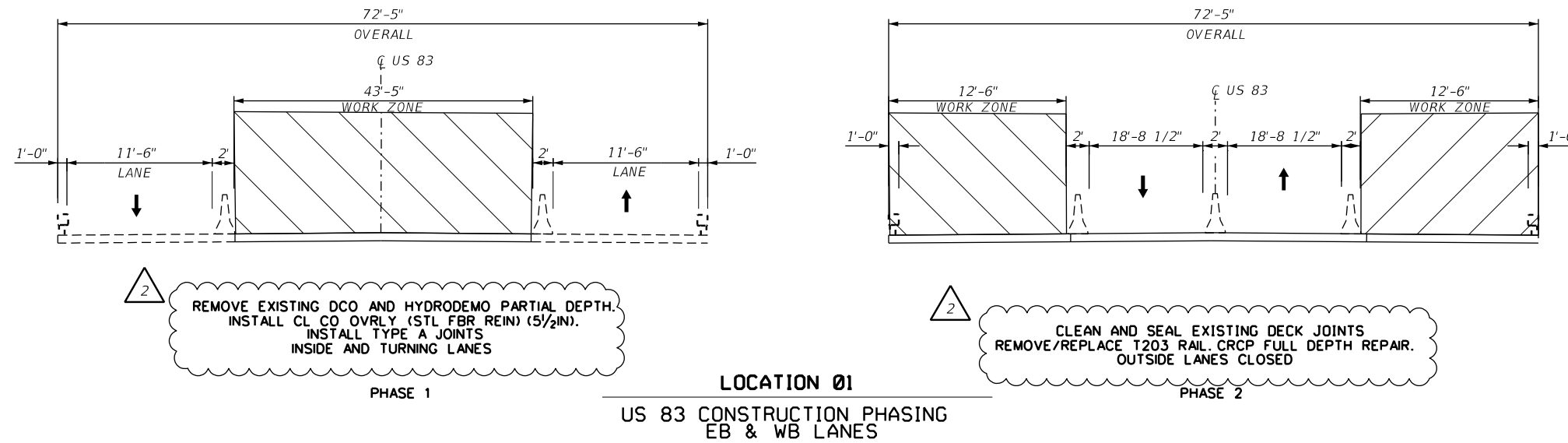
FED. RD. DIV NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	4
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83

LEGEND

-  WORK ZONE
-  PROPOSED TRAFFIC

NOTES

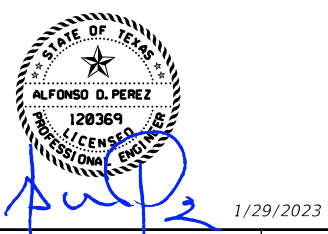
1. APPLY TRAFFIC CONTROL PLAN SETUP AS DESCRIBED IN THE TCP TABLE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. PROVIDE AND MAINTAIN ALL BARRICADES, WARNING SIGNS AND TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH TXDOT BC AND TCP STANDARDS, AND PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."



2 REMOVE EXISTING DCO AND HYDRODEMO PARTIAL DEPTH. INSTALL CL CO OVRLY (STL FBR REIN) (5/2 IN). INSTALL TYPE A JOINTS INSIDE AND TURNING LANES

2 CLEAN AND SEAL EXISTING DECK JOINTS REMOVE/REPLACE T203 RAIL. CRCP FULL DEPTH REPAIR. OUTSIDE LANES CLOSED

SCALE: NTS



1/27/2023	TCP TYPICAL SECTIONS REVISED	AP
NO	DATE	REVISION

LOCATION	DIRECTION	FACILITY CROSSED	NBI #	LAT/LONG	PROPOSED WORK	TCP NARRATIVE	PROPOSED TCP STANDARD
01	US 83 NB & SB LANES	HARDIN CREEK	07-048-0-0035-04-016	LAT: 31.20743 LONG: -99.84531	2 REMOVE DCO BY MILLING & HYDRODEMOLITION. INSTALL NEW CL CO OVRLY (STL FBR REIN)(5 1/2 IN) AND TYPE A JOINTS. CLEAN AND SEAL EXISTING DECK JOINTS. REMOVE PORTIONS EXISTING RAILING. PLACE NEW T203 RAILING, AND REPAIR CONC SPALLS. CRCP FULL DEPTH REPAIR.	-COMPLETE WORK ON CENTER TURNING LANE AND INSIDE LANES ON PHASE 1. COMPLETE WORK ON OUTSIDE LANES ON PHASE 2. USE PCB AT THIS LOCATION AS SHOWN ON STANDARD FOR LANE CLOSURE.	TCP (SC-3a) CENTER LANES CLOSED CONTROL W/ PCTB & TCP (2-5a) TRAFFIC ONE LANE CLOSED.



US 83
TRAFFIC CONTROL PLAN
TYPICAL SECTIONS
HARDIN CREEK
07-048-0-0035-04-016
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	5
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83

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TRAFFIC CONTROL PLAN NARRATIVE:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF ITEM 7, "LEGAL RELATIONS AND RESPONSIBILITIES TO THE PUBLIC", OF THE TXDOT STANDARD SPECIFICATIONS. IN ADDITION TO THESE REQUIREMENTS, THE FOLLOWING PROVISIONS SHALL ALSO GOVERN ON THIS CONTRACT:

GENERAL:

1. TRAFFIC MUST BE HANDLED THROUGHOUT THE PROJECT DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SAFE AND COMFORTABLE PASSAGE FOR VEHICULAR TRAFFIC WITH MINIMAL INCONVENIENCE TO THE PUBLIC, AS SHOWN IN THE PLANS OR AS DIRECTED AND APPROVED BY THE ENGINEER.
2. THE CONTRACTOR MAY PROPOSE OR RECOMMEND MODIFICATIONS TO THE SEQUENCE OF CONSTRUCTION FOR CONSIDERATION BY THE ENGINEER. ANY MAJOR RECOMMENDED MODIFICATION BY THE CONTRACTOR SHALL INCLUDE ANY CHANGES TO THE VARIOUS BID ITEMS, IMPACT TO TRAFFIC, AND EFFECT OF OVERALL PROJECT IN TIME AND COST. IF THIS PROPOSAL IS IMPLEMENTED, THE CONTRACTOR WILL BE RESPONSIBLE FOR DEVELOPING DETAILED PLAN SHEETS TO BE SEALED BY A LICENSED PROFESSIONAL ENGINEER FOR INCLUSION WITH THE CHANGE ORDER. THE CONTRACTOR CANNOT PROCEED WITH ANY CONSTRUCTION OPERATIONS BASED ON A REVISED PHASE OR SEQUENCE UNTIL WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER. IF AT ANY TIME, DURING CONSTRUCTION, THE CONTRACTOR'S PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC DOES NOT PROVIDE FOR SAFE AND COMFORTABLE MOVEMENT, THE CONTRACTOR WILL IMMEDIATELY CHANGE THEIR OPERATION TO CORRECT THE UNSATISFACTORY CONDITION.
3. TEMPORARY DRAINAGE IS THE RESPONSIBILITY OF THE CONTRACTOR. ENSURE ADEQUATE POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
4. DO NOT STORE ANY CONSTRUCTION MATERIAL OR EQUIPMENT AT ANY LOCATION THAT WILL CONSTITUTE A HAZARD AND WILL ENDANGER TRAFFIC.
5. THE CONTRACTOR WILL NOTIFY THE ENGINEER IN WRITING OF UPCOMING LANE CLOSURES 10 BUSINESS DAYS IN ADVANCE FOR ALL TEMPORARY CLOSURES OR DETOURS.
6. ACCESS TO ADJOINING PROPERTY MUST BE MAINTAINED AT ALL TIMES.
7. NO EQUIPMENT WILL BE LEFT WITHIN 30 FEET OF TRAVEL WAY AFTER WORKING HOURS UNLESS LOCATED BEHIND TRAFFIC BARRIER.
8. REMOVAL AND DISPOSAL OF EXISTING ABANDONED UTILITIES (EITHER PREVIOUSLY ABANDONED OR ABANDONED DURING THIS PROJECT) REQUIRED TO SUPPORT THIS PROJECT'S CONSTRUCTION WILL BE PERFORMED UNDER THE OVERALL PREPARING RIGHT OF WAY ITEM (ITEM 100).
9. COVER PERMANENT SIGNS IF NOT USED. PAYMENT WILL BE CONSIDERED SUBSIDIARY TO ITEM 502.
10. SEE BC STANDARDS AND THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) FOR SIGN SPACING AND LOCATION REQUIREMENTS NOT SHOWN IN THE PLANS.
11. SEE THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) FOR CHANNELIZING DEVICE SPACING REQUIREMENTS NOT SHOWN IN THE PLANS.
12. WORK ZONE PAVEMENT MARKINGS WILL BE RAISED PAVEMENT MARKERS ON THE NEW BRIDGE AND WILL BE PAID FOR UNDER ITEM 672.
13. THE CONTRACTOR WILL PROVIDE, CONSTRUCT, AND MAINTAIN ALL BARRICADES AND SIGNS IN ACCORDANCE WITH STATE STANDARDS. ANY SIGNS REQUIRED THAT ARE NOT DETAILED IN THE STANDARD SHEETS SHALL BE IN CONFORMANCE WITH THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS.
14. BARRICADES AND WARNING SIGNS SHALL BE PLACED AS SHOWN ON THE PLANS. THIS SHALL BE CONSIDERED THE MINIMUM REQUIRED TO PROVIDE FOR THE SAFETY OF TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN OTHER SUCH BARRICADES AND SIGNS DEEMED NECESSARY BY THE ENGINEER OR AS DIRECTED BY FIELD CONDITIONS TO PROVIDE FOR THE SAFE PASSAGE OF TRAFFIC AT ALL TIMES.
15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN FLAGGERS AS DIRECTED AND APPROVED BY THE ENGINEER, AT SUCH POINTS, AND FOR SUCH PERIODS OR TIME AS MAY BE REQUIRED, TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC AND THE CONTRACTOR'S PERSONNEL.
16. THE CONTRACTOR SHALL KEEP THE ROADWAY CLEAN AND FREE OF DIRT OR OTHER MATERIALS DURING HAULING OPERATIONS. IF THE CONTRACTOR DOES NOT MAINTAIN A CLEAN ROADWAY, THEY SHALL CEASE ALL CONSTRUCTION OPERATIONS, WHEN DIRECTED BY THE ENGINEER, TO CLEAN THE ROADWAY TO THE SATISFACTION OF THE ENGINEER.
17. THE USE OF RUBBER-TIRED EQUIPMENT WILL BE REQUIRED FOR MOVING DIRT OR OTHER MATERIALS ALONG OR ACROSS PAVEMENT SURFACES. WHERE THE CONTRACTOR DESIRES TO MOVE ANY EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS, ON OR ACROSS PAVEMENT, THEY SHALL PROTECT THE PAVEMENT FROM DAMAGE AS DIRECTED AND APPROVED BY THE ENGINEER.
18. THROUGHOUT CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO CONDUCT THEIR HAULING OPERATIONS IN A MANNER SUCH THAT VEHICLES WILL NOT HAUL OVER PREVIOUSLY RE-COMPACTED SUBGRADE OR COMPACTED BASE MATERIAL, EXCEPT IN SHORT SECTIONS FOR DUMPING MANIPULATIONS.
19. UPON COMPLETION OF THE WORK AND BEFORE FINAL ACCEPTANCE AND FINAL PAYMENT IS MADE, THE CONTRACTOR SHALL CLEAR AND REMOVE FROM THE SITE ALL SURPLUS AND DISCARDED MATERIALS AND DEBRIS OF EVERY KIND LEAVING THE ENTIRE PROJECT IN A SMOOTH, NEAT, AND SLIGHTLY CONDITION.
20. ALL BARRICADES, SIGNS, AND FLAGGERS WILL BE PAID UNDER ITEM 502 "BARRICADES, SIGNS, AND TRAFFIC HANDLING". ALL EROSION AND SEDIMENT CONTROL DEVICES WILL BE PAID UNDER ITEM 506 "TEMPORARY EROSION, SEDIMENTATION, AND ENVIRONMENTAL CONTROLS". ALL WORK ZONE PAVEMENT MARKINGS WILL BE PAID UNDER ITEM 662 "WORK ZONE PAVEMENT MARKINGS" UNLESS OTHERWISE NOTED. ALL OTHER WORK AND MATERIALS WILL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS UNLESS OTHERWISE INDICATED IN THE PLANS.

SEQUENCE OF CONSTRUCTION:

1. PREPARING RIGHT OF WAY AND REMOVAL OF EXISTING ITEMS TO BE DONE ONLY IN AREAS WHERE CONSTRUCTION IS OCCURRING, AS PER THE PHASES NOTED BELOW.
2. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS), PER TMUTCD, SHALL BE PLACED 7 CALENDAR DAYS IN ADVANCE OF LANE CLOSURES AND CHANGES IN TRAFFIC PATTERNS. THE ENGINEER SHALL APPROVE THE LOCATION OF PCMS PRIOR TO PLACEMENT AND/OR RELOCATION. THE ENGINEER SHALL APPROVE THE WORDING OF THE PCMS.

PHASE 1:

1. INSTALL ADVANCE WARNING SIGNS ACCORDING TO THE BC STANDARDS AND THE LATEST TMUTCD.
2. FURNISH AND PLACE PCMS IN AN UNOBSCURED LOCATION AT PROJECT LIMITS TO ALERT MOTORISTS OF UPCOMING CHANGES IN TRAFFIC PATTERN AS DIRECTED BY THE ENGINEER.
3. INSTALL TEMPORARY EROSION CONTROL IN ACCORDANCE WITH THE PLANS.
4. INSTALL SHOULDER WORK TRAFFIC CONTROL AND SET UP TRAFFIC CONTROL IN ACCORDANCE WITH THE TCP LAYOUTS, TYPICAL SECTIONS, AND APPLICABLE TCP STANDARDS.
5. INSTALL PCTBs ONLY TO THE LIMITS OF BRIDGE AND BUFFER DISTANCE. ALL OTHER CHANNELIZING DEVICES SHALL BE PLASTIC DRUMS.
6. PREPARE ROW IN ACCORDANCE WITH THE PLANS.
7. REMOVE DCO AS SHOWN ON PLANS, INSTALL NEW CL CO OVRLY (STL FBR REIN) (5 1/2 IN) AND TYPE A JOINT, REPAIR SPALLS AND INSTALL PAVEMENT MARKINGS FOR THE LIMITS ALONG THE SB LANES.

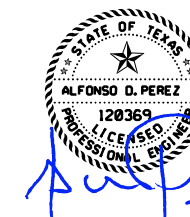
PHASE 2:

1. FURNISH AND PLACE PCMS IN AN UNOBSCURED LOCATION AT PROJECT LIMITS TO ALERT MOTORISTS OF UPCOMING CHANGES IN TRAFFIC PATTERN AS DIRECTED BY THE ENGINEER.
2. INSTALL TEMPORARY EROSION CONTROL IN ACCORDANCE WITH THE PLANS.
3. INSTALL SHOULDER WORK TRAFFIC CONTROL AND SET UP TRAFFIC CONTROL IN ACCORDANCE WITH THE TCP LAYOUTS, TYPICAL SECTIONS, AND APPLICABLE TCP STANDARDS.
5. INSTALL PCTBs ONLY TO THE LIMITS OF BRIDGE AND BUFFER DISTANCE. ALL OTHER CHANNELIZING DEVICES SHALL BE PLASTIC DRUMS.
6. PREPARE ROW IN ACCORDANCE WITH THE PLANS.
7. CLEAN AND SEAL EXISTING JOINTS. REMOVE/REPLACE T203 RAIL. CRCP FULL DEPTH REPAIR.

PHASE 3:

1. REMOVE ANY TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THE PLANS.

SCALE: NTS



1/29/2023

NO.	DATE	REVISION	APPROV.



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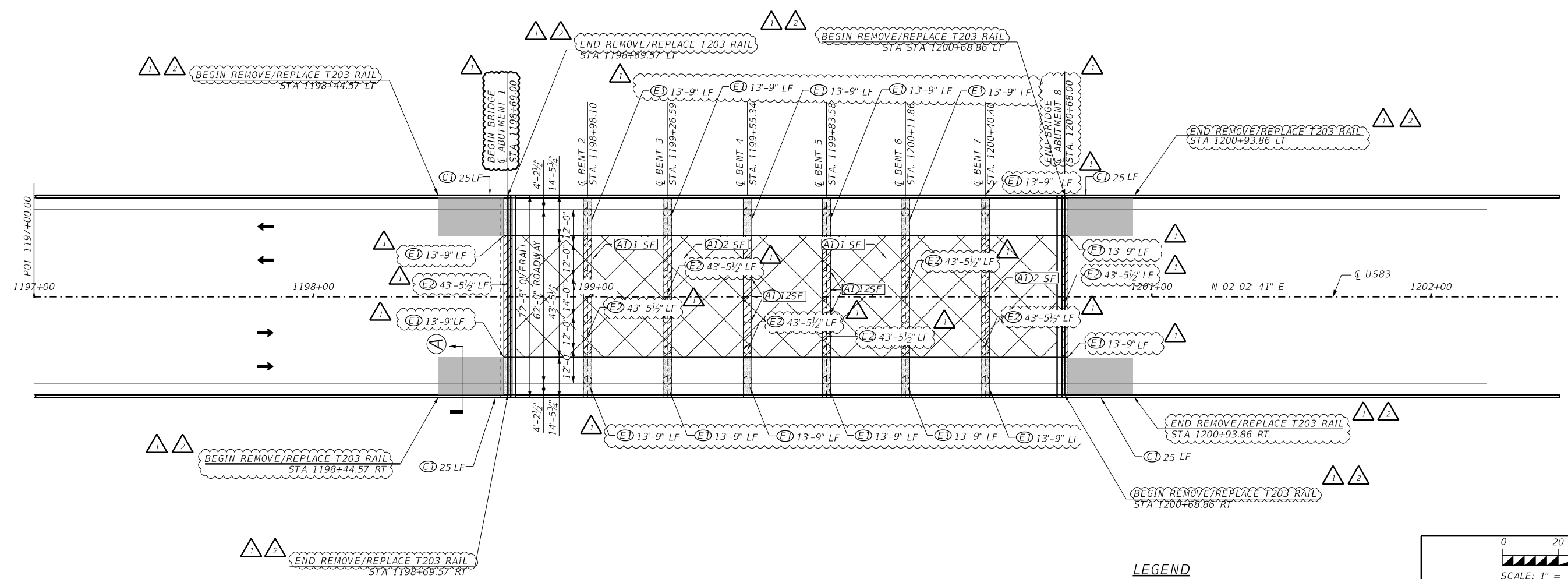
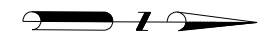


US 83
TRAFFIC CONTROL PLAN
NARRATIVE

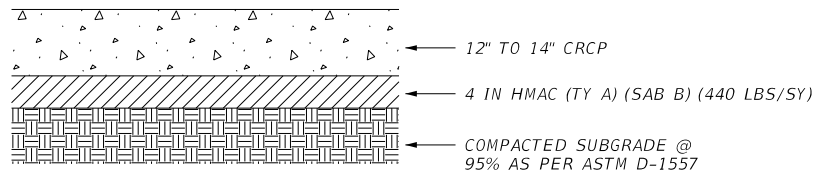
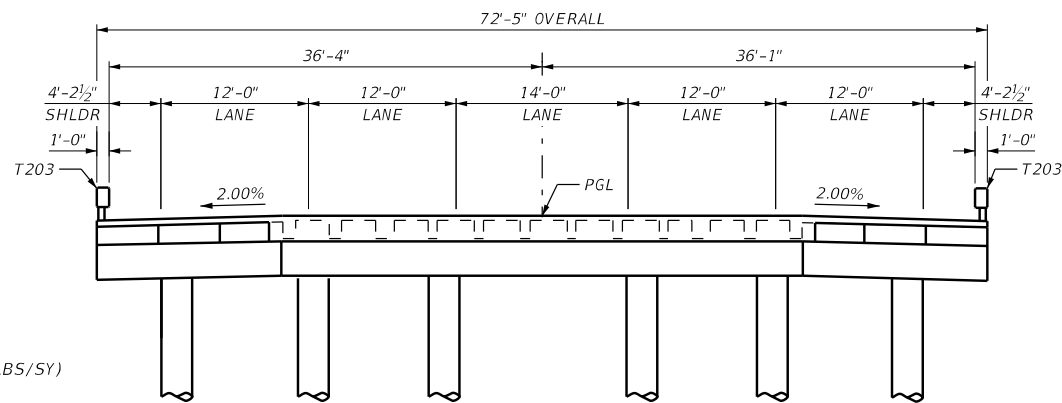
HARDIN CREEK
07-048-0-0035-04-016

SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	7
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83



BRIDGE QUANTITIES				
ITEM	CODE	DESCRIPTION	UNIT	QTY
361	6079	FULL-DEPTH REPAIR CRCP (12"-14")	SY	167
429	6007	CONC STR REPAIR (VERTICAL & OVERHEAD) (A1)	SF	30
438	6004	CLEANING AND SEALING EXISTING JOINTS (CL 7) (E1)	LF	220
439	6016	CL CO CONC OVERLY (STL FBR REIN) (5 1/2 IN)	SY	962
454	6021	TYPE A JOINT (E2)	LF	348
483	6006	HYDRO-DEMOLITION (1 1/2 IN)	SY	962
483	6017	MILLING CONCRETE SLAB (3 IN)	SY	962
778	6015	CONCRETE RAIL REPLACEMENT (TYPE 203) (C1)	LF	100



LEGEND

- CRCP FULL DEPTH REPLACEMENT AREAS
- JOINT REPLACEMENT SEE TYPE A JOINT REPAIR DETAIL
- CLEANING AND SEALING EXISTING JOINTS (CL 7)
- LIMITS OF MILLING AND HYDRO-DEMOLITION. SEE BRIDGE SET JOINT REPAIR DETAILS SHEET.

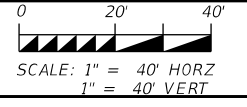
REPAIR CALL-OUT LEGEND

- REPAIR QUANTITY UNIT ESTIMATED REPAIR QUANTITY
- REPAIR TYPE DESIGNATION - SEE BELOW

REPAIR TYPE DESCRIPTION

- CLEANING AND SEALING EXISTING JOINTS (CL 7)
- TYPE A JOINT
- MINOR SPALL UNDER DECK AT DIAPHRAGMS AND BEAM STEMS
- CONCRETE RAIL REPLACEMENT (TYPE 203)

NOTES:
 1. SEE "BRIDGE REPAIR DETAILS" SHEETS FOR REPAIR NOTES, DETAILS AND ADDITIONAL INFORMATION.
 2. REFER TO TCP NARRATIVE FOR CONSTRUCTION SEQUENCING.



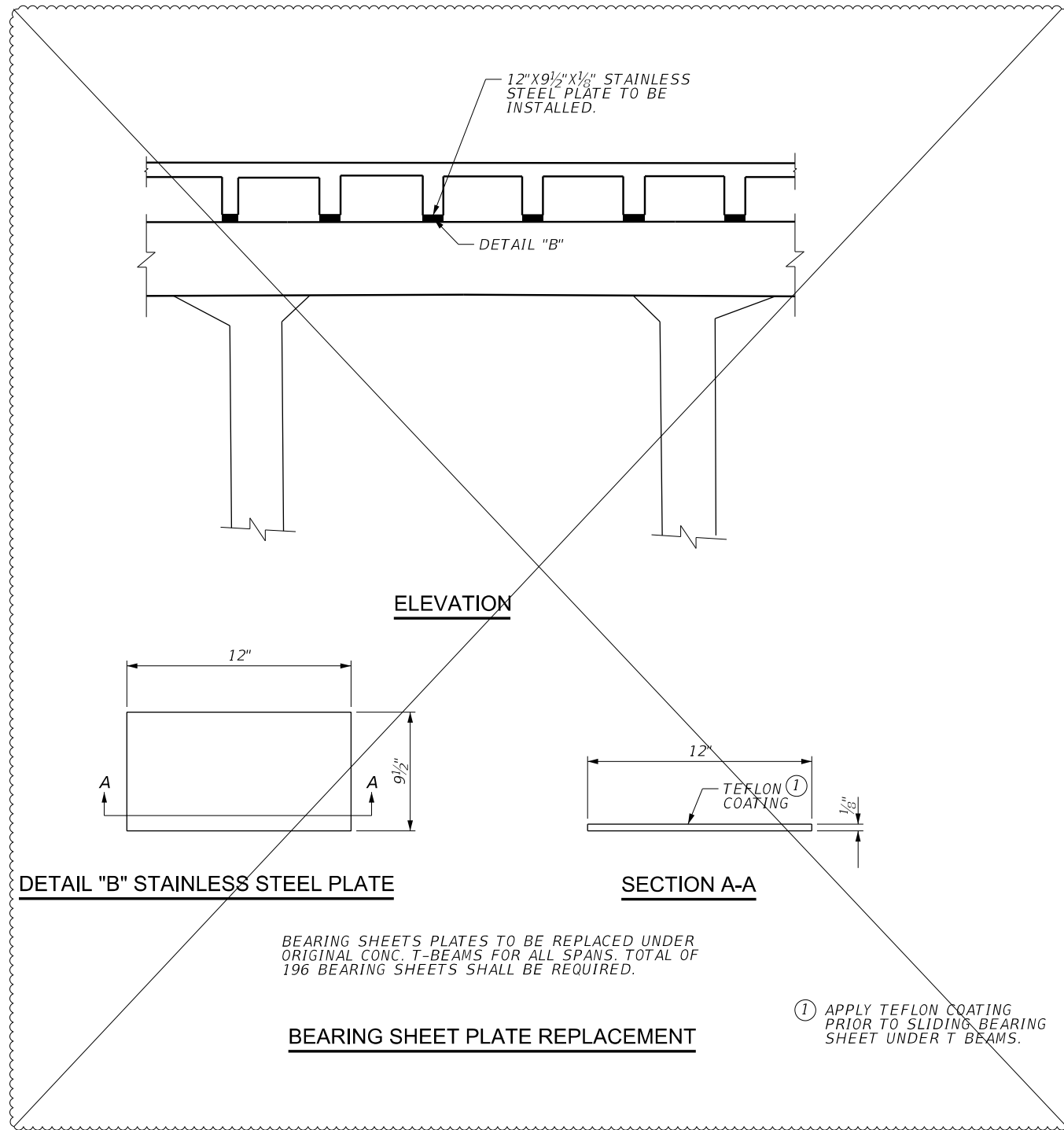
US 83
 LOCATION 01
 LAYOUT
 HARDIN CREEK
 07-048-0-0035-04-016
 SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	25
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83

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SPALL TYPE	LOCATION	UNIT	QTY
A1	ABUTMENT 8 SOUTH FACE	SF	15
A1	BENT 2 SOUTH FACE	SF	15
TOTAL		SF	30



BENT 5 LOOKING NORTH



BENT 8 LOOKING NORTH

REPAIR TYPE DESCRIPTION

① MINOR SPALL

NOTES:
 CONTRACTOR SHALL COORDINATE WITH FIELD ENGINEER FOR THE REMOVAL OF LEAD BEARING SHEETS UNDERNEATH ALL ORIGINAL T-BEAMS LOCATIONS. THIS SHALL BE SUBSIDIARY TO ITEM 429 6007 "CONC STR REPAIR (VERTICAL & OVERHEAD)"
 BEARING SHEET PLATES SHALL BE SUBSIDIARY TO ITEM 495 "RAISING EXISTING STRUCTURE"

SEE "BRIDGE SPALL REPAIR DETAILS" SHEETS FOR REPAIR NOTES, DETAILS AND ADDITIONAL INFORMATION.

② ALL CONCRETE ELEMENTS IN SUBSTRUCTURE SHALL BE ITEM 428 6001 "PENETRATING SURFACE TREATMENT."

SCALE: NTS



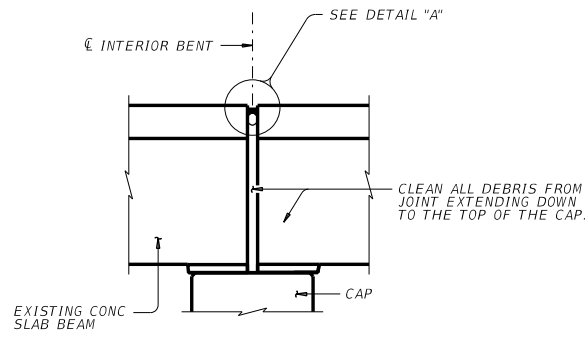
NO.	DATE	REVISION	APPROV.
1	1/27/2023	CONC STR REPAIR AND SURFACE TREATMENT REVISED	AP



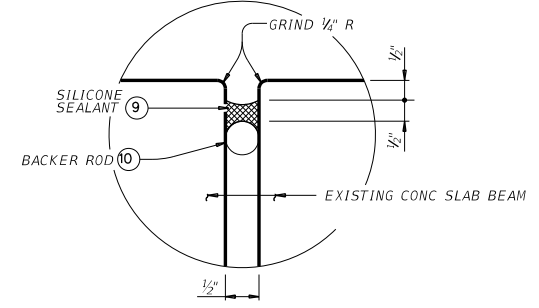
US 83
 LOCATION 01
 SUBSTRUCTURE REPAIR
 HARDIN CREEK
 07-048-0-0035-04-016
 SHEET 1 OF 1

BRIDGE QUANTITIES					
ITEM	CODE	DESCRIPTION	UNIT	QTY	
②	427	6007	EPOXY WATERPROOF FINISH (TY-X)	SF	8000
	428	6001	PENETRATING CONCRETE SURFACE TREATMENT	SY	889
	429	6002	CONC STR REPAIR (EPOXY MORTAR)	SF	20
	429	6007	CONC STR REPAIR (VERTICAL & OVERHEAD)	SF	10
②	495	6001	RAISING EXIST STRUCT	LS	1

P:\V-TPD\Projects\TX\2019\01902477\04\1_Design\500_CADD\ dgn\01_Master_Design_Files\Prime\02_HARDIN CREEK LAYOUT\500_CADD\ dgn\02.dgn
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JOINT WITH SILICONE SEAL
(USED WITHOUT ACP OVERLAY)



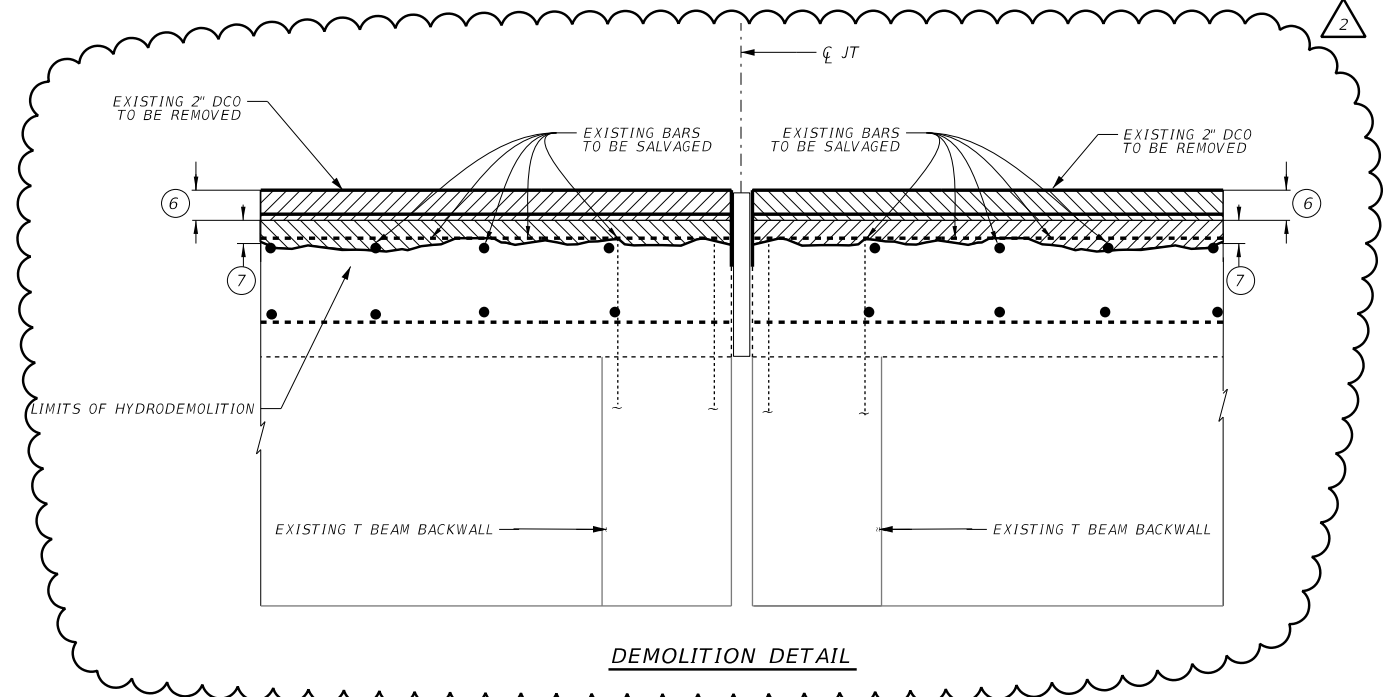
DETAIL "A"

- 9 USE CLASS 7 SILICONE SEALANT. PREPARE JOINT AND SEAL IN ACCORDANCE WITH ITEM 438 "CLEANING AND SEALING JOINTS."
- 10 BACKER ROD MUST BE 25% LARGER THAN JOINT OPENING AND MUST BE COMPATIBLE WITH THE SEALANT.

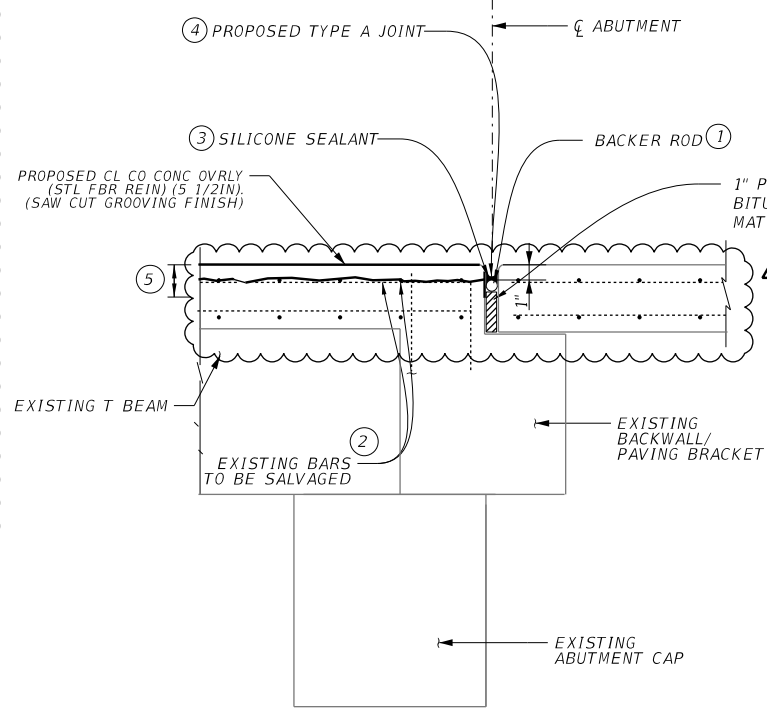
PROCEDURE FOR CLEANING AND SEALING EXISTING CONCRETE GIRDER JOINT WITH SILICONE SEAL:

- 1) CLEAN JOINT OPENING OF ALL OLD EXPANSION MATERIALS/DEVICES, DIRT, AND ALL OTHER DELETERIOUS MATERIALS IN ACCORDANCE WITH ITEM 438, "CLEANING AND SEALING JOINTS." CLEAN JOINT OUT FULL DEPTH OF THE JOINT.
- 2) OBTAIN APPROVAL OF CLEANED JOINT PRIOR TO PROCEEDING WITH JOINT SEALING OPERATION.
- 3) PLACE BACKER ROD INTO JOINT OPENING 1" BELOW THE TOP OF CONCRETE. THE BACKER ROD MUST BE 25% LARGER THAN THE JOINT OPENING.
- 4) SEAL THE JOINT OPENING WITH A CLASS 7 SILICONE. RECESS SEAL 1/2" BELOW TOP OF CONCRETE IN TRAVEL LANES AND 1/8" BELOW TOP OF CONCRETE IN SHOULDERS.

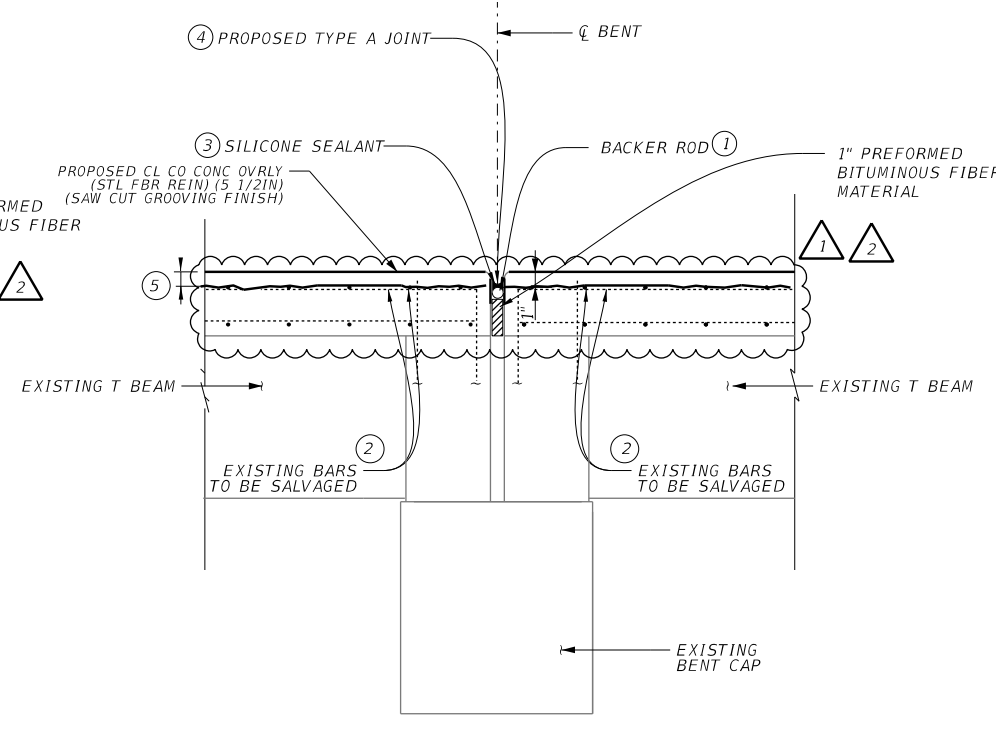
CLEANING AND SEALING EXISTING JOINTS (E1)



DEMOLITION DETAIL



ABUTMENT JOINT REPAIR (E2)



INTERIOR BENT JOINT REPAIR (E2)

GENERAL NOTES

- 1 1 1/2" BACKER ROD MUST BE COMPATIBLE WITH JOINT SEALANT. USE OF MULTIPLE PIECES TO CREATE A BACKER ROD CROSS SECTION IS NOT PERMITTED. TOP OF BACKER ROD MUST BE CONVEX AS SHOWN.
- 2 IF DAMAGED REINFORCEMENT IS ENCOUNTER DURING DEMOLITION ACTIVITIES, THE CONTRACTOR MUST CLEAN AND STRAIGHTEN EXISTING REINFORCEMENT. REPLACE REINFORCEMENT IF REQUIRED AND DIRECTED BY THE ENGINEER.
- 3 CLASS 7 SILICONE SEALANT THAT CONFORMS TO DMS-6310. INSTALL WHEN AMBIENT TEMPERATURE IS BETWEEN 55°F AND 85°F AND RISING.
- 4 SEAL JOINT IN ACCORDANCE WITH ITEM 438, CLEANING AND SEALING EXISTING BRIDGE JOINT DETAILS.
- 5 NEW CL CO CONC OVRLY (STL FBR REIN) (5 1/2IN) SHALL MATCH EXISTING DECK ELEVATION. USE 40LBS/CY OF STEEL FIBER REINFORCEMENT SIZE=2 1/2" LONG.
- 6 REMOVE EXISTING 2" THICK DCO AND 1" OF EXISTING CONCRETE GIRDER TOP SLAB BY CONCRETE MILLING. USE CONCRETE MILLING EQUIPMENT CAPABLE OF MAINTAINING CONSTANT DEPTH OF CUT SPECIFIED. EQUIPMENT MACHINE WITH AUTOMATED DEBRIS COLLECTION SYSTEM.
- 7 REMOVE DAMAGE AND LOOSE CONCRETE BY HYDRODEMOLITION. UNTIL SOUND CONCRETE IS REACHED. AVOID DAMAGE TO SOUND CONCRETE.

SCALE: NTS



1/27/2023

NO.	DATE	REVISION	APPROV.
1	1/18/2023	JOINT REVISED	AP
2	1/18/2023	DCO, MILLING AND HYDRO-DEMOLITION REVISED	AP

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F-12040
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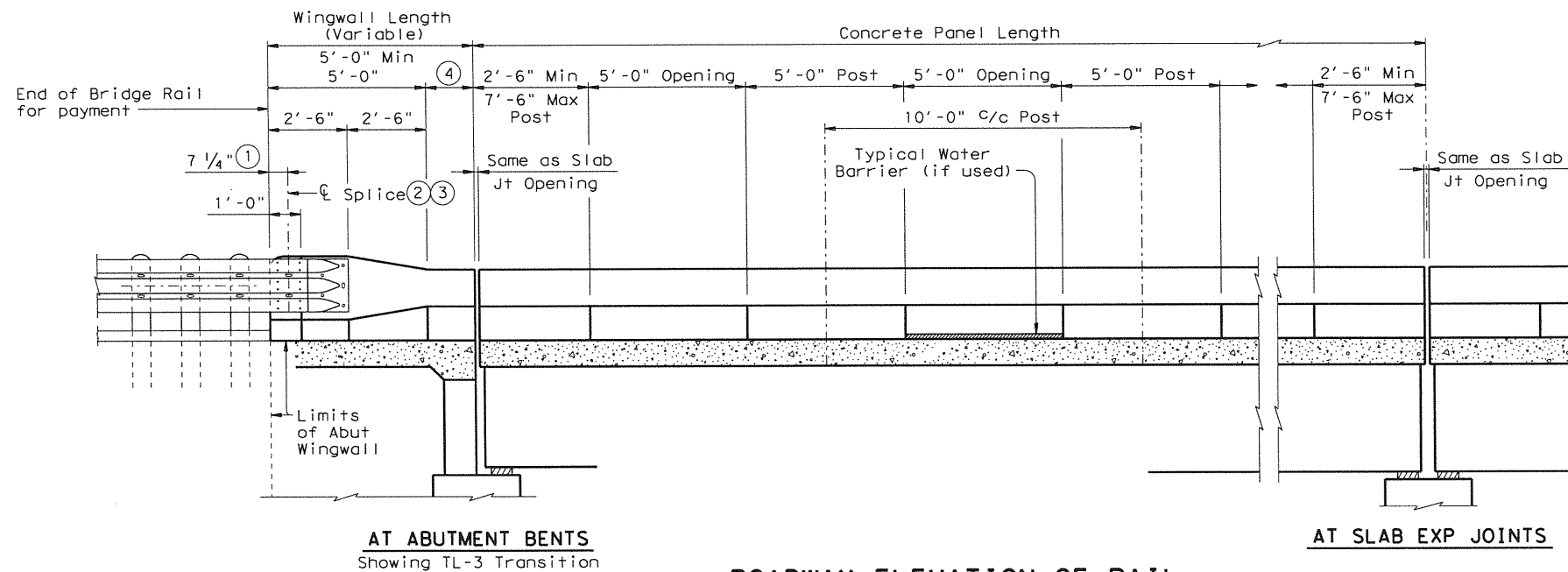
US 83
BRIDGE TYPE A JOINT REPAIR DETAILS
HARDIN CREEK
07-048-0-0035-04-016
SHEET 1 OF 1

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT	SHEET NO.
6	TEXAS	BR 2023(404)	30
STATE DISTRICT	COUNTY	CONTROL NO. SECTION NO.	JOB NO. HIGHWAY NO.
SJT	CONCHO	0035 04	039 US 83

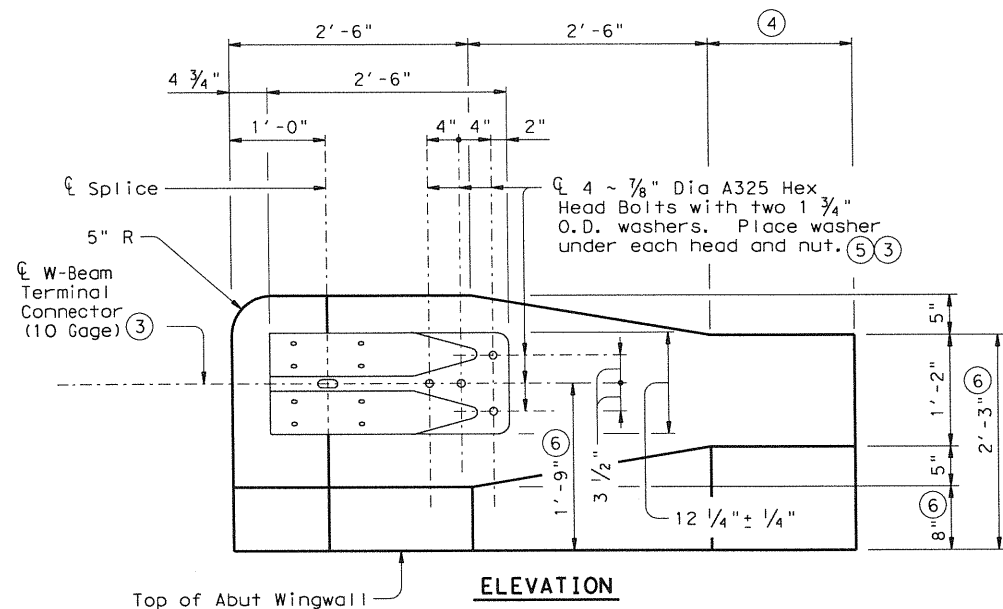
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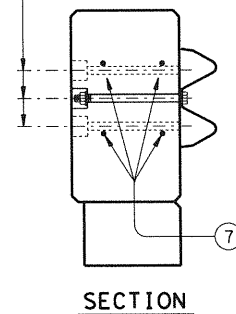
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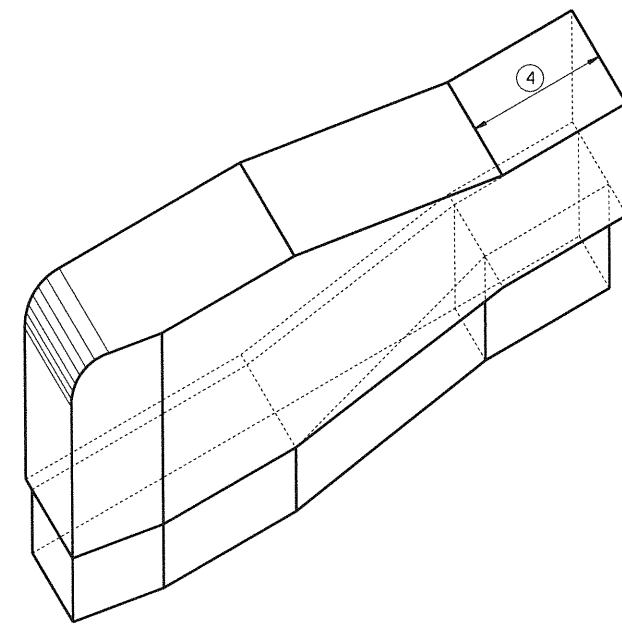
- ① Showing TL-3 Splice location, TL-2 Splice location is 1'-0".
- ② Metal Beam Guard Fence Transitions must be attached to the bridge rail and extended along the embankment unless otherwise shown in the plans.
- ③ Terminal Connectors and associated hardware are to be paid for under the Item "Metal Beam Guard Fence".
- ④ Wingwall Length minus 5'-0" (Varies)
- ⑤ Bolts shall be sufficient length to extend 1/2" to 3/4" beyond nut.
- ⑥ Increase 2" for structures with overlay.
- ⑦ 4 additional Bars R(#4) 3'-8" in length shall be placed inside Bars S(#3) and centered 2'-0" from end of rail when Terminal Connections are required. Field bend as needed.
- ⑧ Bolt recesses are only required when pedestrians sidewalks are adjacent to back of rail.



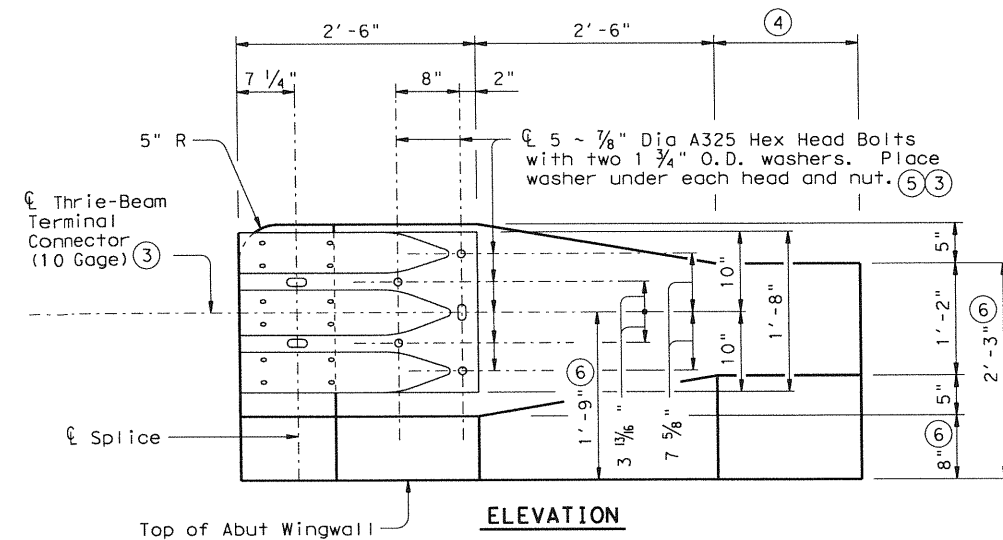
④ 4 ~ 1" Dia holes and 2 1/2" Dia x 2" deep recesses. Holes and recesses must be formed or cored. Percussion drilling is not permitted. Adjust placement of reinforcing steel as necessary to avoid bolt holes and recesses. (8)



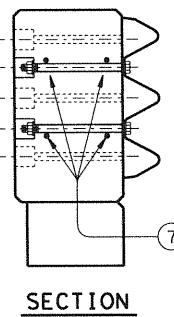
TL-2 TERMINAL CONNECTION DETAILS



ISOMETRIC VIEW AT END OF BRIDGE RAIL



⑤ 5 ~ 1" Dia holes and 2 1/2" Dia x 2" deep recesses. Holes and recesses must be formed or cored. Percussion drilling is not permitted. Adjust placement of reinforcing steel as necessary to avoid bolt holes and recesses. (8)



TL-3 TERMINAL CONNECTION DETAILS

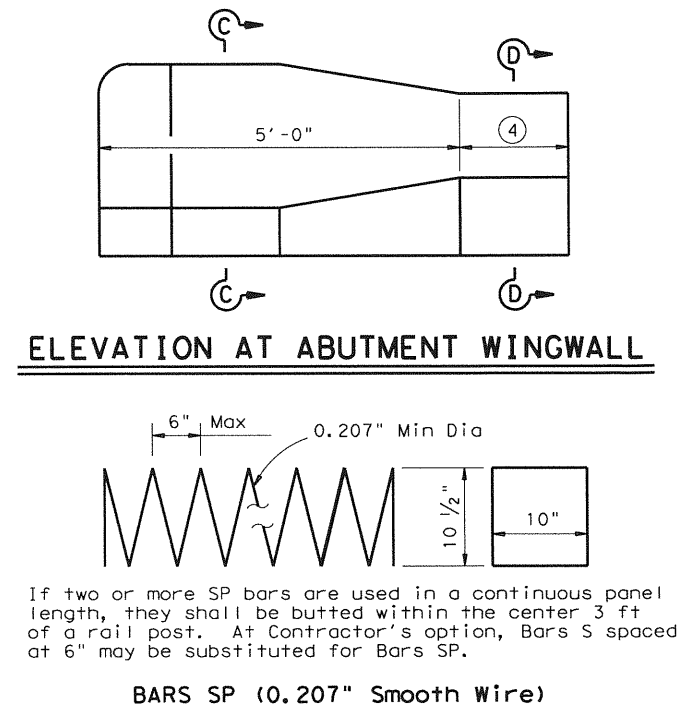
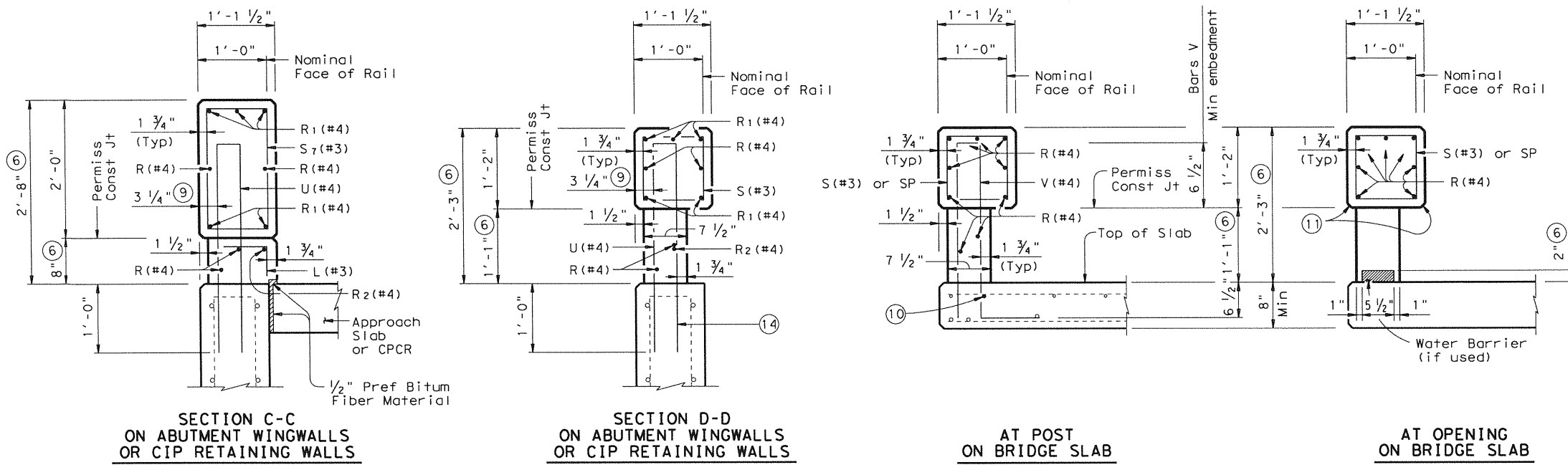
Texas Department of Transportation
Bridge Division

TRAFFIC RAIL

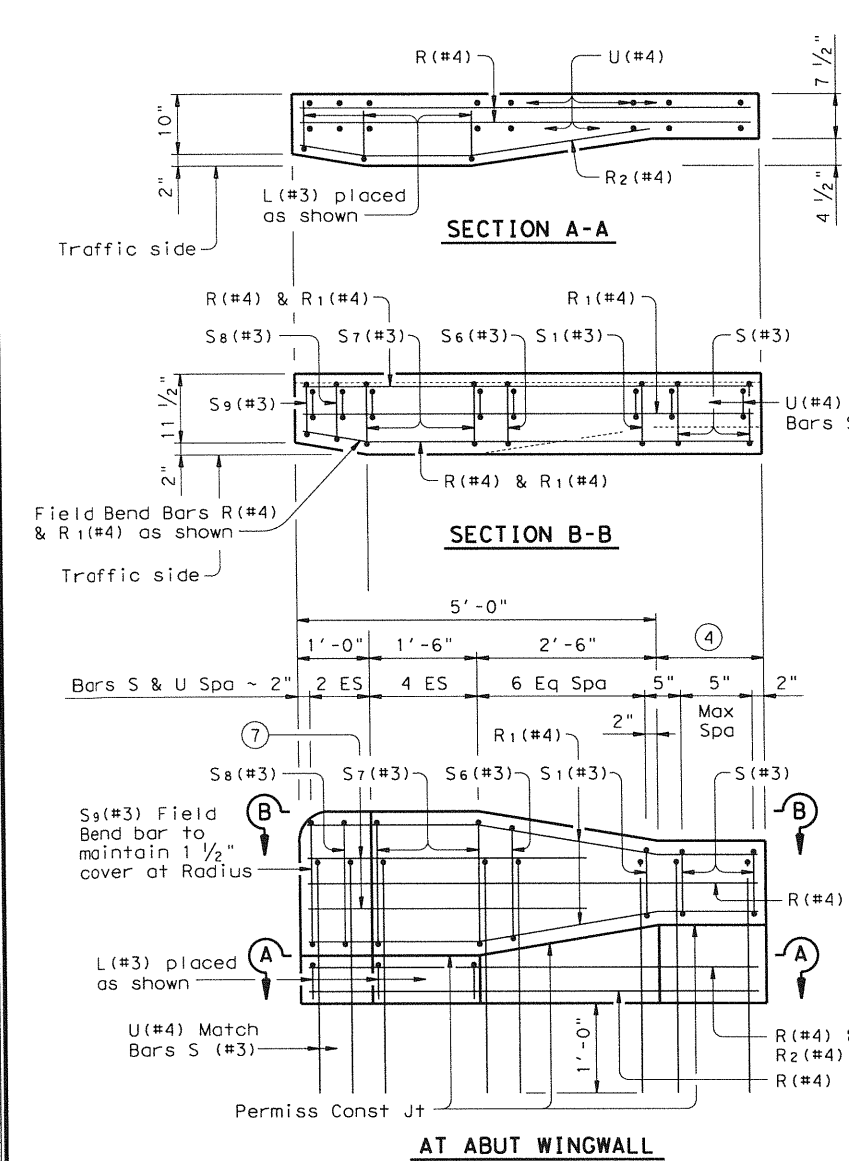
TYPE T203

FILE: r1stdel2.dgn	DN: TxDOT	CK: TxDOT	DW: JTR	CK: AES
© TxDOT February 2003	DISTRICT	FEDERAL AID PROJECT		SHEET
1/30/23 REVISIONS	SJT			036
TRAFFIC RAIL STANDARD	COUNTY	CONTROL	SECT	JOB
REVISED	CONCHO	0035	04	039 US 83

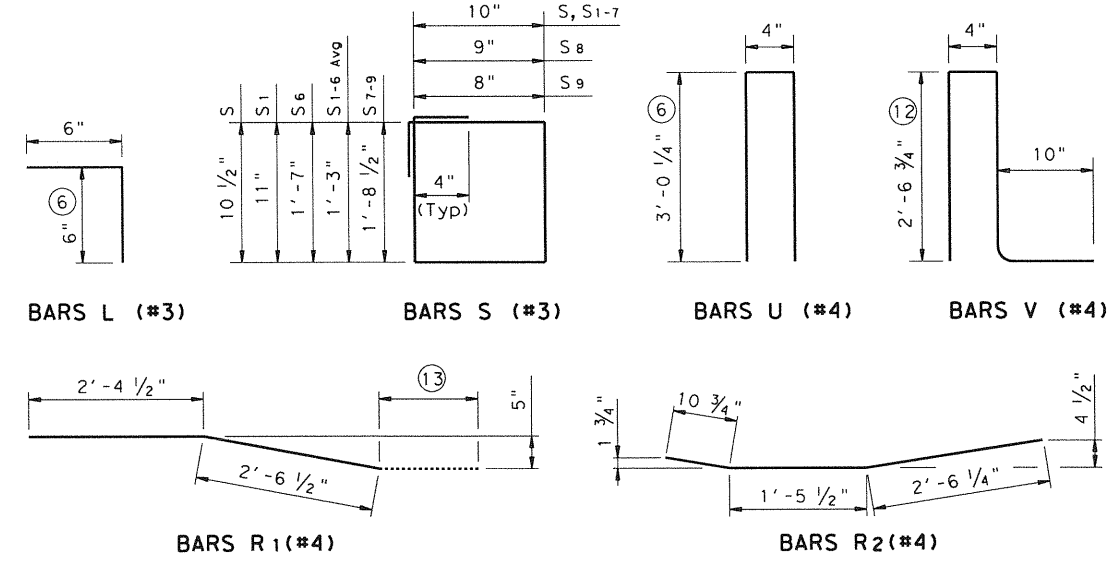
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SECTIONS THRU RAIL



- ④ Wingwall Length minus 5'-0" (Varies)
- ⑥ Increase 2" for structures with overlay.
- ⑦ 4 additional Bars R (#4) 3'-8" in length shall be placed inside Bars S (#3) and centered 2'-0" from end of rail when Terminal Connections are required. Field bend as needed.
- ⑨ 3 1/2" when vertical reinforcing has closer clear cover over horizontal reinforcing in abutment wingwalls or retaining walls on traffic side of wall.
- ⑩ Top longitudinal slab bar may be adjusted laterally 3" ± to tie reinforcing.
- ⑪ 1 1/2" x 3/4" or 3/4" x 3/4" Chamfer (Typ at all openings)
- ⑫ Length shown for 6 1/2" Min bar embedment with no overlay. Adjust as required.
- ⑬ Wingwall Length minus 4'-10 1/2"
- ⑭ Bars U can be rotated slightly to maintain cover requirements shown.



GENERAL NOTES:

This rail has been successfully evaluated by full-scale crash test to meet NCHRP Report 350 TL-3 criteria. This rail can be used for design speeds of 50 mph and greater when a TL-3 rated guard fence transition is used. When a TL-2 rated guard fence transition is used, this rail can only be used for design speeds of 45 mph and less.

Rail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

All steel components, except reinforcing, shall be galvanized unless otherwise shown on plans.

All concrete shall be Class "C". Chamfer all exposed corners. Epoxy coat Bars V and U if slab bars are epoxy coated.

All reinforcing shall be Grade 60 except spirals.

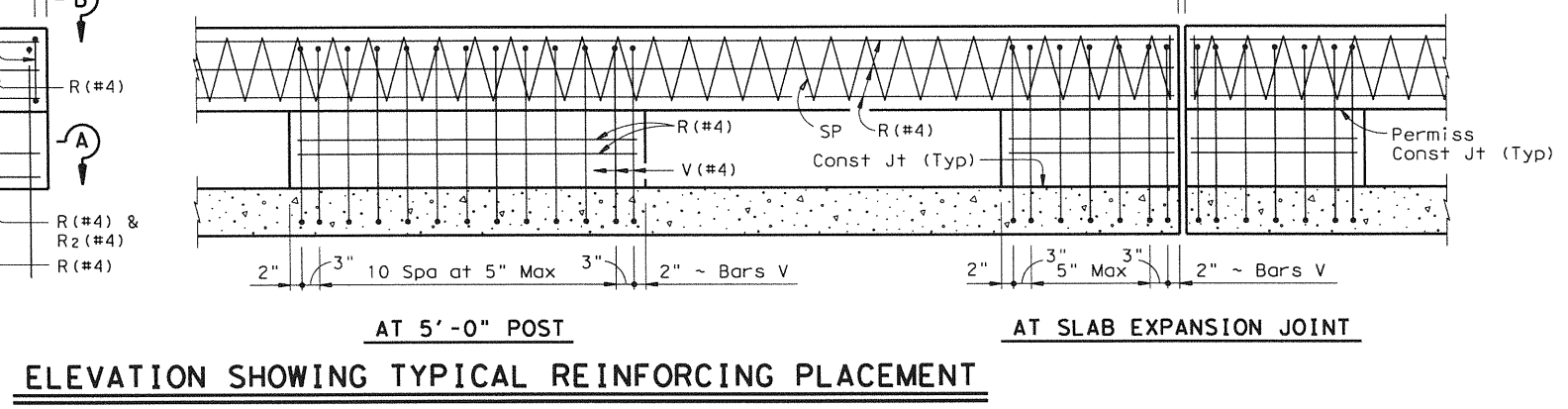
Face of rail and parapet shall be vertical transversely unless otherwise shown in the plans or approved by the Engineer.

Openings shall have end faces perpendicular to adjacent roadway grade.

Water barriers shall be provided at openings draining onto undercrossing roadways and sidewalks. They may be cast-in-place or precast in convenient lengths and bonded to the bridge deck with an approved epoxy cement.

Shop drawings will not be required for this rail.

Average weight of railing with no overlay is 250 plf.



Texas Department of Transportation
Bridge Division

TRAFFIC RAIL

TYPE T203

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1/30/23 REVISIONS	SJT			037
TRAFFIC RAIL STANDARD REVISED	COUNTY	CONTROL	SECT	JOB
	CONCHO	0035	04	039 US 83