

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING AND SUPPLEMENTAL SPEC:

A-1-20 DATED (REVISED) 1/21/2022  
 SS 846 DATED (REVISED) 4/17/2015

**DESIGN SPECIFICATIONS**

THIS STRUCTURE CONFORMS TO THE 17th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, INCLUDING THE INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS, SECTIONS 102.05, 105.02, AND 513.04\*. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

**PROPOSED WORK**

TRU-46-0254 (OVER MEANDER CREEK)  
 - SEAL THE EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN.  
 - PATCH UNSOUND AREAS OF THE EXISTING APPROACH SLAB CONCRETE WEARING SURFACE.  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION.

TRU-46-0294 (OVER WATER ST-NS RE-MAH)  
 - SEAL THE EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN.  
 - REPAIR EXISTING PRESSURE RELIEF JOINTS.  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION.

TRU-46-0369 (OVER MOSQUITO CREEK)  
 - SEAL THE EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN.  
 - REPAIR EXISTING PRESSURE RELIEF JOINTS.  
 - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION.

TRU-422-1559 (OVER MOSQUITO CREEK)  
 - REPAIR THE EXISTING CURBED SIDEWALK.  
 - SEAL THE EXISTING CURBED SIDEWALKS.  
 - REPLACE ASPHALT WEARING SURFACE.  
 - REPLACE POLYMER MODIFIED EXPANSION JOINTS.

**INTERIM COMPLETION**

CURBED SIDEWALK REPAIR AT TRU-422-1559 MUST BE COMPLETED BY 6/15/2024.

**ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS**

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

**WEARING COURSE REMOVED, AS PER PLAN (TRU-46-0294) (TRU-46-0369)**

THE CONTRACTOR SHALL REMOVE THE TOP 3" OF ASPHALT IN THE PRESSURE RELIEF JOINT AT TRU-46-0294 AND TRU-46-0369 AS DIRECTED BY THE PROJECT ENGINEER.

**PRESSURE RELIEF JOINT (TRU-46-0294) (TRU-46-0369)**

THE FOLLOWING ITEMS SHALL BE USED AS DIRECTED BY THE PROJECT ENGINEER TO REMOVE AND REPLACE THE TOP 3" OF ASPHALT IN THE PRESSURE RELIEF

ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)  
 ITEM 202, WEARING COURSE REMOVED, AS PER PLAN (T=3")  
 ITEM 407, NON-TRACKING TACK COAT @ 0.09 GAL/SY

**ITEM 512 - TYPE 3 WATERPROOFING (TRU-422-1559)**

THIS ITEM WILL BE USED TO PROVIDE WATERPROOFING PROTECTION FOR THE EXISTING BOX BEAM SUPERSTRUCTURE. THE CONTRACTOR SHALL EXTEND THE WATERPROOFING A MINIMUM OF 6" DOWN THE SIDE OF THE FASCIA BRIDGE DECK BOX BEAMS AND A MINIMUM OF 2'-0" BEYOND THE BRIDGE LIMITS AT THE REAR AND FORWARD ABUTMENTS.

**ITEM 515 - HIGH EARLY STRENGTH KEY-WAY GROUT (TRU-422-1559)**

KEY-WAY GROUT WILL BE EXAMINED FOR VISIBLE DETERIORATION AFTER THE REMOVAL OF THE ASPHALT CONCRETE OVERLAY AND WATERPROOFING. ANY GROUT DETERMINED TO BE REPLACED BY THE PROJECT ENGINEER WILL BE REMOVED BY ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN AND THE GROUT WILL BE REPLACED USING ITEM 515, HIGH EARLY STRENGTH KEY-WAY GROUT.

PAYMENT FOR THIS ITEM WILL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND ANY INCIDENTALS REQUIRED TO PERFORM THIS WORK. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER FOOT FOR ITEM 515, HIGH EARLY STRENGTH KEY-WAY GROUT.

**SPECIAL - PATCHING CONCRETE STRUCTURE: CURBED SIDEWALK REPAIR (TRU-422-1559)**

THIS ITEM WILL BE USED TO REPAIR THE DETERIORATED PORTION OF THE CURBED SIDEWALK, AS SHOWN IN THE DETAIL ON THIS SHEET, ON BOTH SIDES OF THE BRIDGE DECK AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PERFORMED IN ACCORDANCE WITH ITEM 519 - PATCHING CONCRETE STRUCTURE AND AS HEREIN.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR SPECIAL - PATCHING CONCRETE STRUCTURE: CURBED SIDEWALK REPAIR AND WILL BE PAID FOR PER FOOT.

**ITEM 509 - EPOXY COATED STEEL REINFORCMENT (TRU-422-1559)**

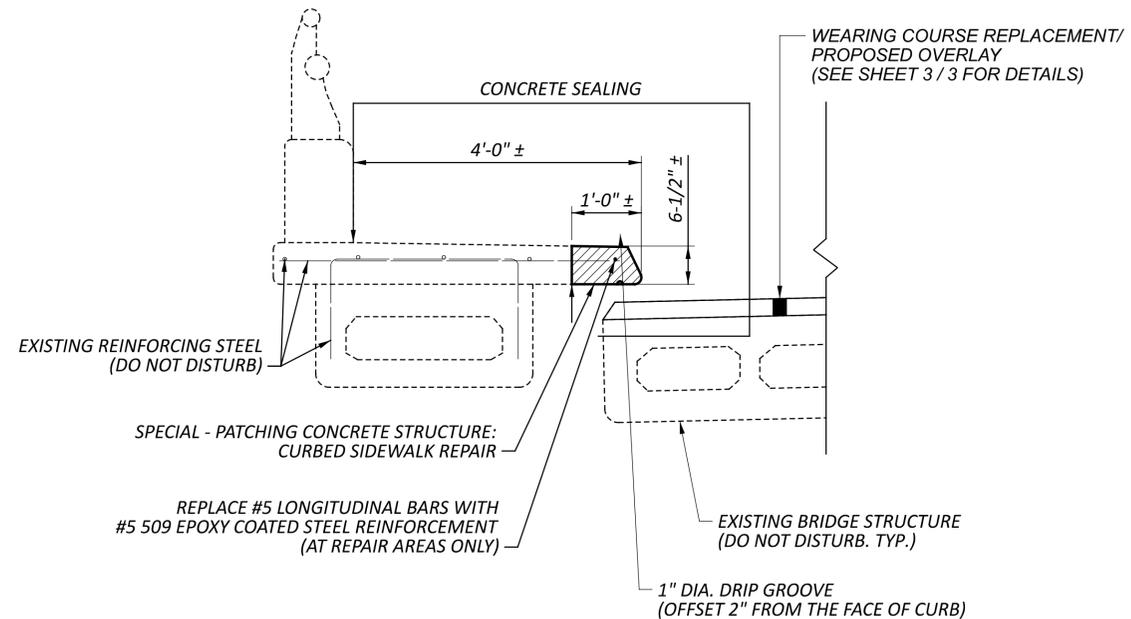
THIS ITEM SHALL BE USED TO REPLACE THE EXPOSED AND DETERIORATED LONGITUDINAL BARS ALONG THE FACE OF CURBED SIDEWALKS AS PER THE DETAIL ON THIS SHEET AND THE PROJECT ENGINEER.

THE FOLLOWING QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES SHEET:  
 509 - EPOXY COATED REINFORCING STEEL (#5 BAR) 200 LB

**ITEM 512 - SEALING OF CONCRETE SURFACES (NON-EPOXY) (TRU-422-1559)**

THIS ITEM SHALL BE USED TO SEAL THE EXISTING SIDEWALK AND REPAIR AREAS ALONG THE FACE OF CURBED SIDEWALKS AS PER THE DETAIL ON THIS SHEET AND THE PROJECT ENGINEER. THE CONTRACTOR SHALL MATCH THE EXISTING COLOR.

THE FOLLOWING QUANTITY TO BE USED AS DIRECTED BY THE ENGINEER HAS BEEN CARRIED TO THE STRUCTURE ESTIMATED QUANTITIES SHEET:  
 512 - SEALING OF CONCRETE SURFACES 158 SY



PARTIAL DETAIL: CURBED SIDEWALK

STRUCTURE GENERAL NOTES  
 TRU-46-0254, TRU-46-0294, TRU-46-0369, TRU-422-1559  
 OVER MEANDER CREEK, WATER ST-NS RE-MAH, MOSQUITO CREEK

SFN	
VARIOUS	
DESIGN AGENCY	
DESIGNER	CHECKER
KMB	CLG
REVIEWER	
MJA 09-18-20	
PROJECT ID	
102752	
SUBSET	TOTAL
1	3
SHEET	TOTAL
P.17	19

CALC: KMB DATE: 6/1/2023  
 CHECKED: MJA DATE: 8/2/2023

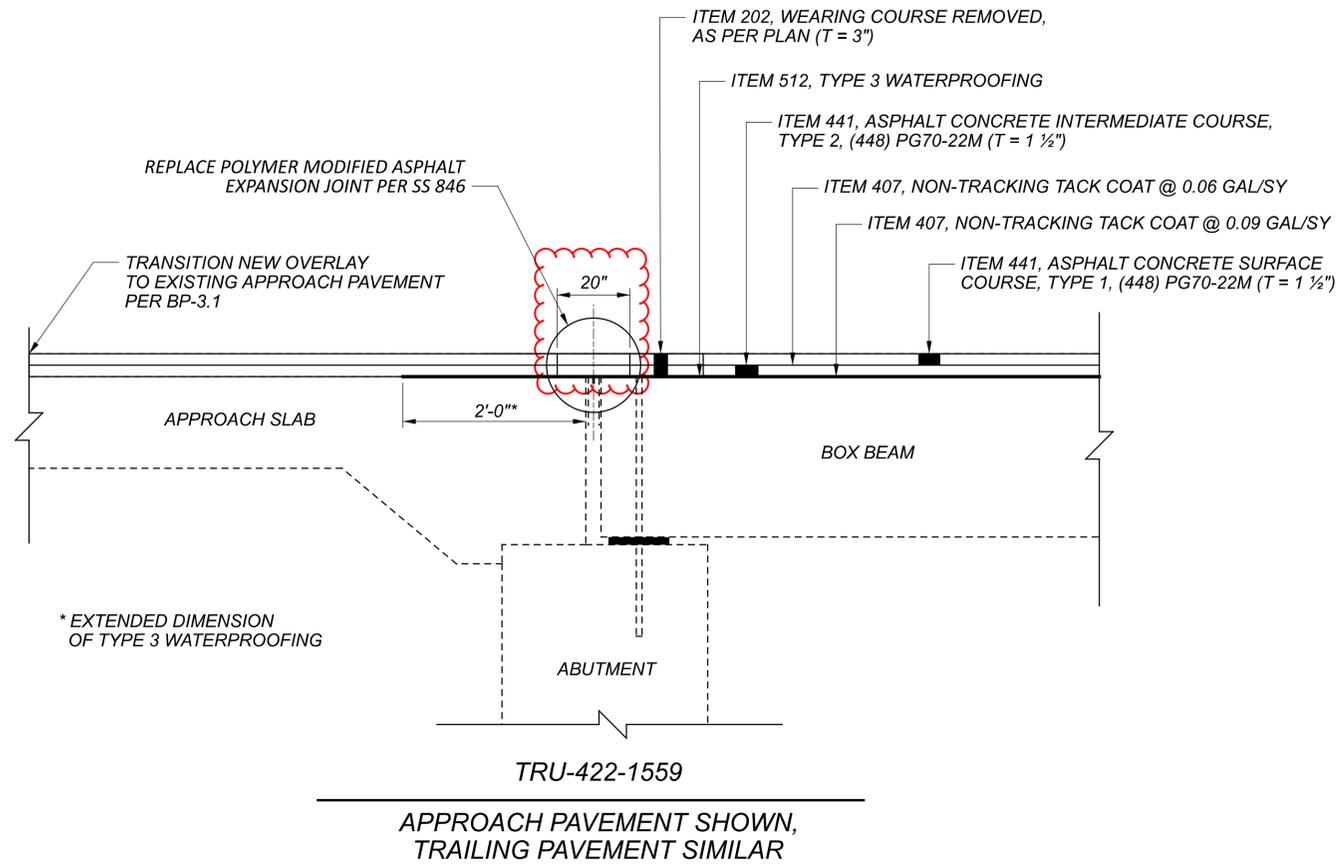
ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.												
TRU-46-0254 7802412 03/S>2/47	TRU-46-0294 7802447 03/S>2/47	TRU-46-0369 7802536 03/S>2/47	TRU-422-1559 7807082 03/S>2/47					ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
LS	LS	LS						201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS	1 / 3
	24	24	1097					202	23501	SY	WEARING COURSE REMOVED, AS PER PLAN (T=3")	1 / 3
	3	2	100					407	20000	GAL	NON-TRACKING TACK COAT @ 0.09 GAL/SY	
			67					407	20000	GAL	NON-TRACKING TACK COAT @0.06 GAL/SY	
	4	4						441	50300	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG70-22M (T=3")	
			47					441	50300	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG70-22M (T=1.5")	
			47					441	50100	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T=1.5")	
			200					509	10000	LB	EPOXY COATED REINFORCING STEEL	
783	4380	821						512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
317	6167	665						512	74500	FT	REMOVAL OF EXISTING PAVEMENT MARKING	
	12	3						512	74520	EACH	REMOVAL OF EXISTING PAVEMENT MARKING	
			927					512	33010	SY	TYPE 3 WATERPROOFING	
			158					512	10050	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
			1986					515	30000	FT	HIGH EARLY STRENGTH KEYWAY GROUT	
2								519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
			118					SPECIAL	51911720	FT	PATCHING CONCRETE STRUCTURE - CURBED SIDEWALK REPAIR	1 / 3
			54					846	00110	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	

STRUCTURE ESTIMATED QUANTITIES  
 TRU-46-0254, TRU-46-0294, TRU-46-0369, TRU-422-1559  
 OVER MEANDER CREEK, WATER ST-NS RE-MAH, MOSQUITO CREEK

SFN  
 VARIOUS  
 DESIGN AGENCY



DESIGNER: KMB  
 CHECKER: CLG  
 REVIEWER: MJA 09-18-20  
 PROJECT ID: 102752  
 SUBSET: 2 | TOTAL: 3  
 SHEET: P.18 | TOTAL: 19



BRIDGE NUMBER	BRIDGE DECK												APPROACH SLABS												
	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	202	407	441	441	441	407	512	512		LENGTH (APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	202	407	407	441	441	512	512	519	846
				WEARING COURSE REMOVED, AS PER PLAN (T = 3")	NON-TRACKING TACK COAT @ 0.09 GAL/SY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG70-22M (T=3")	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG70-22M (T=1.5")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T = 1.5")	NON-TRACKING TACK COAT @ 0.06 GAL/SY	TYPE 3 WATERPROOFING	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	WEARING COURSE REMOVED, AS PER PLAN (T = 3")					NON-TRACKING TACK COAT @ 0.09 GAL/SY	NON-TRACKING TACK COAT @ 0.06 GAL/SY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448) PG70-22M (T=1.5")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M (T = 1.5")	TYPE 3 WATERPROOFING	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	PATCHING CONCRETE BRIDGE DECK - TYPE C	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	
FT	FT	SQ YD	SY	GAL	CY	CY	CY	GAL	SY	SY		FT	FT	SQ YD		SY	GAL	GAL	CY	CY	SY	SY	SY	CF	
TRU-46-0254	112.00	48.00	597.33										15.00	55.50	92.50	FWD									
TRU-46-0294	680.00	54.00	4080.00	24.00	2.16	4.00							15.00	55.50	92.50	REAR							92.50	0.93	
TRU-46-0369	92.00	52.00	531.56	23.11	2.08	3.85							25.00	54.00	150.00	FWD							150.00	0.93	
TRU-422-1559	124.10	64.00	882.49	882.49	79.42		36.77	36.77	52.95	896.28			15.00	64.00	106.67	FWD	106.67	9.60	6.40	4.44	4.44	14.22		26.67	
													15.00	64.00	106.67	REAR	106.67	9.60	6.40	4.44	4.44	14.22		26.67	

STRUCTURE DETAILS

TRU-46-0254, TRU-46-0294, TRU-46-0369, TRU-422-1559

OVER MEANDER CREEK, WATER ST-NS RE-MAH, MOSQUITO CREEK

DESIGN AGENCY

VARIOUS

DESIGNER: KMB, CHECKER: CLG, REVIEWER: MJA 09-18-20

PROJECT ID: 102752

SUBSET: 3, TOTAL: 3

SHEET: P.19, TOTAL: 19