

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
2		3		4		24					01/NFA/BR	EXT	TOTAL				
						LS					LS	202	11203	LS		<b>STRUCTURE REPAIR (SFN: 7103395)</b>	
						32					32	202	23500	32	SY	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	23
						1,360					1,360	509	10000	1,360	LB	WEARING COURSE REMOVED	
																EPOXY COATED STEEL REINFORCEMENT	
						108					108	510	10001	108	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	23
						19					19	511	34410	19	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
						1,823					1,823	513	10201	1,823	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	23
						<del>420</del>					<del>420</del>	<del>514</del>	<del>00060</del>	<del>420</del>	<del>SF</del>	<del>FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT</del>	
						420					420	514	00066	420	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
						42					42	514	00504	42	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
						801					801	514	20001	801	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN	24
						90					90	516	11211	90	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	23
						12					12	516	13600	12	SF	1" PREFORMED EXPANSION JOINT FILLER	
						75					75	516	31010	75	FT	2" DEEP JOINT SEALER	
						8					8	516	45305	8	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	23
						LS					LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	23
																<b>MAINTENANCE OF TRAFFIC</b>	
											80	614	11110	80	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	3
											6	614	13310	6	EACH	BARRIER REFLECTOR, TYPE 1 (BI-DIRECTIONAL)	
											28	614	13314	28	EACH	BARRIER REFLECTOR, TYPE 3 (BI-DIRECTIONAL)	
											34	614	13360	34	EACH	OBJECT MARKER, TWO WAY	
						0.18					0.18	614	21200	0.18	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
						0.48					0.48	614	22210	0.48	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
						24					24	614	26400	24	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
						178					178	615	20000	178	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
																<b>INCIDENTALS</b>	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

KDR

REVIEWER

MCM 12/1/22

PROJECT ID

104886

SHEET TOTAL

P.7 P.28

**ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN, (THREE COAT)**

**1.0 DESCRIPTION:**

THIS ITEM CONSISTS OF FIELD PAINTING STRUCTURAL STEEL PREVIOUSLY COATED WITH A NEWER EXISTING OZEU OR IZEU PAINT SYSTEM OR UNPAINTED WEATHERING STEEL TO CORRECT DAMAGE BY COLLISION OR CORROSION. THIS WORK CONSIST OF PERFORMING SURFACE PREPARATION AND APPLYING A THREE-COAT PAINT SYSTEM TO THE PREPARED STEEL AND FEATHERED REMOVAL AREAS OF EXISTING OZEU OR IZEU PAINT SYSTEMS OR UNPAINTED WEATHERING STEEL.

**2.0 GENERAL:**

CMS 514.05 THROUGH 514.10 AND 514.13.0 APPLY UNLESS MODIFIED BY THESE NOTES.

**3.0 WASHING EXISTING OZEU OR IZEU PAINTED SURFACE OR UNPAINTED WEATHERING STEEL:**

CLEAN SURFACE TO BE COATED WITH LOW PRESSURE WATER CLEANING TO REMOVE ALL DIRT, DEBRIS, ANIMAL EXCREMENT, SALT CONTAMINANTS AND OTHER ACCUMULATED FOREIGN MATERIAL IN ACCORDANCE WITH SSPC-SP12 (LP WC), LOW PRESSURE WATER CLEANING. THE PRESSURE WASHER SHALL BE CAPABLE OF ACHIEVING AT LEAST 2000 POUNDS PER SQUARE INCH AT THE NOZZLE. WHEN USING THE POWER WASHING EQUIPMENT, THE NOZZLE SHALL BE MAINTAINED NO MORE THAN 10 INCHES FROM THE SURFACE. SUPPLY AND USE OF POTABLE WATER. PROVIDE TO THE ENGINEER A LETTER OF WRITTEN ACCEPTANCE FOR ANY BIODEGRADABLE DETERGENTS OR CLEANERS USED IN CONJUNCTION WITH THIS METHOD.

COLLECT AND CONTAIN WATER AND DEBRIS REMOVED DURING WASHING OPERATIONS ABOVE WATER FEATURES IN CONFORMANCE WITH CMS 514.08 AND CMS 514.13.0 FOR ANY DEBRIS ABOVE LAND FEATURES AS NECESSARY TO PRODUCE VISIBLY CLEAR WATER AND COMPLY WITH CMS 514.08 AND CMS 514.13.0 FOR ANY DEBRIS.

**4.0 SURFACE PREPARATION:**

AFTER THE PRESSURE WASHED SURFACE HAS DRIED, REMOVE EXISTING PAINT COATING TO CONTRACT LIMITS FOR AS DIRECTED BY THE ENGINEER ACCORDING TO: SSPC-SP II, POWER TOOL CLEANING TO BARE METAL, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 3: SSPC SP6, COMMERCIAL BLAST CLEANING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 1: OR SSPC SP12 UHP W-4, ULTRA HIGH-PRESSURE WATER JETTING, AS SHOWN ON THE PICTORIAL SURFACE PREPARATION STANDARDS FOR PAINTING STEEL SURFACES SHOWN IN SSPC-VIS 4. SUPPLY BLAST WATER CONTAINING A COMMERCIALY AVAILABLE RUST INHIBITOR AT A DOSAGE THAT PREVENTS FLASH RUSTING FOR 12 HOURS AND DOCUMENTED AS ACCEPTABLE TO THE COATING'S MANUFACTURER. THE ENGINEER WILL USE THE SSPC-VIS 1, SSPC-VIS 3 OR SSPC-VIS 4 TO DETERMINE THE ACCEPTANCE OF THE SURFACE PREPARATION. FEATHER THE EXISTING PAINT TO EXPOSE A MINIMUM OF 1/2 INCH OF EACH COAT. CONTAIN AND DISPOSE OF WASTE GENERATED BY THE CLEANING ACCORDING TO CMS 514.13.0.

ROUND ALL EXPOSED CORNERS OF MAIN MATERIAL TO BE PAINTED AS NECESSARY TO ACHIEVE A 1/16 INCH RADIUS OR EQUIVALENT FLAT SURFACE AT A 45 DEGREE ANGLE.

**5.0 FIELD PAINTING:**

APPLY THE PRIME, INTERMEDIATE AND FINSH COATS OF THE THREE-COAT PAINT SYSTEM SPECIFIED IN CMS 708.02, ACCORDING TO CMS 514.15, 514.16, 514.19 AND 514.20 TO CONTRACT LIMITS OR AS DIRECTED BY THE ENGINEER. TINT THE FINISH COAT TO APPROXIMATELY THE SAME COLOR AS THE EXISTING FINISH COLOR, UNPAINTED WEATHERING STEEL OR AS DESIGNATED IN THE CONTRACT. MATCH THE COLOR TO THE ENGINEERS SATISFACTION. THE ENGINEER WILL DETERMINE THE PRIME AND INTERMEDIATE COAT THICKNESS USING A TYPE 2 MAGNETIC GAGE AT SPOT LOCATIONS. THE PRIME, INTERMEDIATE, AND FINISH COAT OF PAINT SHALL MEET THE MINIMUM DRY FILM THICKNESS REQUIREMENTS OF CMS 514.20. APPLY PAINT AS FOLLOWS:

A. APPLY THE PRIME COAT ONLY TO THE PREPARED SURFACE OF THE BARE STEEL AND THE EXISTING PRIME COAT EXPOSED BY FEATHERING. DO NOT APPLY THE PRIME COAT TO THE ADJACENT INTERMEDIATE COAT.

B. APPLY CAULK AFTER PRIMING

C. APPLY THE INTERMEDIATE COAT TO THE NEW PRIME COAT AND TO THE EXISTING INTERMEDIATE COATS THAT ARE EXPOSED BY FEATHERING.

D. APPLY THE FINISH COAT TO THE NEW INTERMEDIATE COAT AND TO THE EXISTING FINISH COATS THAT ARE EXPOSED BY FEATHERING.

AT THE PERIMETER OF THE REPAIR AREA, APPLY THE PRIME, INTERMEDIATE AND FINISH COATS WITH A BRUSH. IN LIEU OF BRUSHING THE CONTRACTOR MAY DOUBLE MASK AREAS NOT TO BE COATED AND SPRAY TO FEATHERED REMOVAL LINES.

BLEND REPAIR AREAS WITH THE ADJACENT COATING TO PROVIDE A FINISHED SURFACE IN THE PATCHED AREAS THAT IS SMOOTH AND HAS AN EVEN PROFILE WITH THE ADJACENT SURFACE.

**ITEM 514 FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN, (THREE COAT)**

**6.0 MEASUREMENT:**

THE DEPARTMENT WILL MEASURE FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN BY THE NUMBER OF SQUARE FEET OF STRUCTURAL STEEL PAINTED.

THE DEPARTMENT WILL DETERMINE THE SURFACE AREA BY TAKING EXACT FIELD MEASUREMENTS OF ALL PAINTED SURFACES AND CALCULATIONS.

**7.0 BASIC OF PAYMENT:**

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE SQ FT CONTRACT PRICES AS FOLLOWS:

THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SQUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

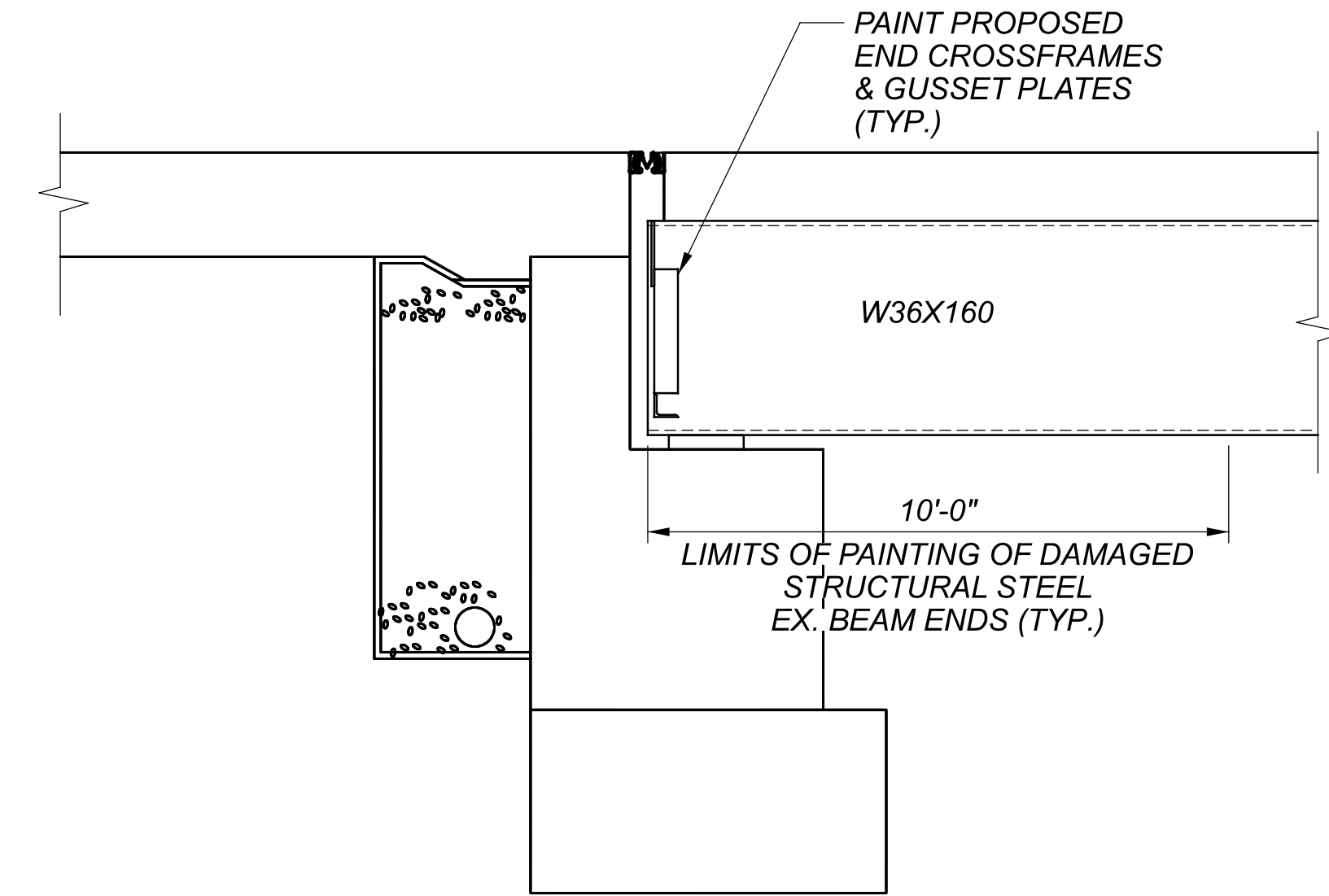
THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE SQ FT UNIT PRICE FOR ITEM 514 FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COATS) AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.



**ESTIMATED QUANTITIES**

ITEM	EXT.	QUANTITY	UNIT	DESCRIPTION	ABUT.	SUPER.	GEN.	SHEET NO.
202	11203	LUMP	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LUMP	2
202	23500	32	SY	WEARING COURSE REMOVED		32		
509	10000	1,068	POUND	EPOXY COATED REINFORCING STEEL	432	636		
510	10001	108	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	72	36		2
511	34410	17	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	6	11		
513	10201	1,823	POUND	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN		1,823		2
514	00060	420	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT		420		
514	00066	420	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT		420		
514	00504	42	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		42		
514	20001	801	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)		801		3
516	11211	85	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	85			2
516	13600	12	SF	1" PREFORMED EXPANSION JOINT FILLER		12		
516	31010	75	FT	2" DEEP JOINT SEALER	75			
516	45305	8	EACH	REFURBISH BEARING DEVICES, AS PER PLAN	8			2
516	47001	LUMP	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LUMP			2



**GENERAL NOTES AND ESTIMATED QUANTITIES**  
**BRIDGE NO. ROS-50-2866**  
**OVER US 35**

DESIGN AGENCY  
  
 6350 PRESIDENTIAL GATEWAY  
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 (614) 823-4949  
 DESIGNER  
**JGM**  
 REVIEWER  
**JWE 07/26/2022**  
 PROJECT ID  
**104886**  
 SUBSET TOTAL  
 3 7  
 SHEET TOTAL  
 P.24 28