SHEET NUMBER 8-11 12-66 74-80 81 89-102 103-106 107-115 116-125 126-150 151-170 171-188 189-205 206-229 230-236 237-25.				PARTICIPATION ALT		ITEM	GRAND	UNIT	DESCRIPTION									
?-11	12-66	74-80	81	89-102	103-106	107-115	116-125	126-150 151-170	171-188	189-205 206-225	9 230-236 237-253	NFP/BR	()		TOTAL			SEE SHEE NO.
																	STRUCTURE REPAIR (CUY-77-0909, SFN: 1806327 - LOCATION 7)	
							LS					LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	117
							2779					2779	509	10000	2779	LB	EPOXY COATED REINFORCING STEEL	
							352					352	510	10000	352	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	
							7					7	511	34417	7	CY	CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS)	117
							26					26	512	10101	26	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	117
							10					10	510	44450	10	CV	TYPE E WATERPROOFING	
							18					18	512	44450	18	SY	TYPE E WATERPROOFING	117
							11					11	512	74001	11	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	117
							LS					LS	513	95020	LS		STRUCTURAL STEEL, MISC.: SHIMMING EXISTING JOINT PLATES	121
							92 71					92 71	516 519	11211 11101	92 71	FT SF	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN PATCHING CONCRETE STRUCTURE, AS PER PLAN	122 117
							,,					,,	070	77707	,,,	<i>3</i> ,	TATOMINO COMONETE CHINOCIONE, ACTENTEAN	
																	STRUCTURE REPAIR (CUY-90-0683, SFN: 1808508 - LOCATION 8)	
								LS				LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	127
								257				257	202	22900	257	SY	APPROACH SLAB REMOVED	1 "= "
								LS				LS	503	21301	LS	"	UNCLASSIFIED EXCAVATION, AS PER PLAN	129
								7597				7597	509	10000	7597	LB	EPOXY COATED REINFORCING STEEL	1
-+	-+							43				43	511	34410	43	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
-+	-+							, ,				'		37710	"	"	TELEST USE CONSIDER OF ENGINEERING	
								1283				1283	512	10101	1283	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	127
+	-+							669				669	512	74001	669	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES. AS PER PLAN	127
\dashv	-+		1					12				12	513	21000	12		TRIMMING OF BEAM END	1
								LS				LS	514	21001	LS	2/10//	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN	127
								138				138	516	10010	138	FT	ARMORLESS PREFORMED JOINT SEAL	
_								135				135	516	11210	135	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	
-								7				1	518	51300	1	EACH	DOWNSPOUT MODIFICATION, 6" DIAMETER 45° RADIUS, GALVANIZED PIPE EXTENSION	107.1
-								5609				5609	SPECIAL		5609	SF	COMPOSITE FIBER WRAP SYSTEM	127,12
-								107				107	519	11101	107	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	127
								122				122	526	25001	122	SY	REINFURGED CONGRETE APPROACH SLABS (T=15"), AS PER PLAN	127
								152				152	526	30001	152	SY	REINFORCED CONCRETE APPROACH SLABS (T=17"), AS PER PLAN	127
								137				137	526	90031	137	FT	TYPE C INSTALLATION, AS PER PLAN	128
								791				791	844	10001	791	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	127
																	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
																	STRUCTURE REPAIR (CUY-422-1122, SFN: 1811258 - LOCATION 10)	
								LS				LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	153
								90				90	202	75266	90	FT	VANDAL PROTECTION FENCE REMOVED AND RESET	100
								6415				6415	509	20000	6415	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL	
								43				43	511	34444	43	CY	CLASS QC2 CONCRETE. BRIDGE DECK	
								1164				1164	512	10101	1164	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	153
																	,	
								14				14	512	10600	14	FT	CONCRETE REPAIR BY EPOXY INJECTION	
								1057				1057	512	74000	1057	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
								452				452	513	10201	452	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	153
								186				186	513	20000	186	EACH	WELDED STUD SHEAR CONNECTORS	
								12966				12966	513	90000	12966	LB	STRUCTURAL STEEL, MISC.: NEW BEAM ENDS	153
								69				69	513	95000	69	FT	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MAIN MEMBER, COMPLETE PENETRATION WELDING	153
								90				90	513	95000	90	FT	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MAIN MEMBER, FILLET WELDING	153
								7				7	513	95030	7		STRUCTURAL STEEL, MISC.: CROSSFRAME DETACHMENT AND REATTACHMENT	153
						I I		1 1 /				34	513	95030	34	EACH	STRUCTURAL STEEL, MISC.: CROSSFRAME DETACHMENT AND REALTACHMENT STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MEMBERS, DRILLING	153
								3.1						33030	32	EACH	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MEMBERS, COPE HOLES	153
								34						95030				
								34 32				32	513	95030	32	LACIT	STRUCTORAL STELL, MISC. REPAIR OF DAMAGED MEMBERS, COTE HOLES	
								32 78				32 78	513	20001	78	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)	
								78 934				32 78 934	513 514 514	20001 27700	78 934	SF SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS	154 153
								78 934 74				78 934 74	513 514 514 516	20001 27700 01300	78 934 74	SF SF FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS	153
								32 78 934 74 8				78 934 74 8	513 514 514 516 516	20001 27700 01300 45305	78 934 74 8	SF SF FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN	153 153
								78 934 74				78 934 74	513 514 514 516	20001 27700 01300	78 934 74	SF SF FT	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS	153
								32 78 934 74 8 LS				78 934 74 8 LS	513 514 514 516 516 516 516	20001 27700 01300 45305 47001	78 934 74 8	SF SF FT EACH	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN COMPOSITE FIBER WRAP SYSTEM	153 153 153 154,15
								32 78 934 74 8 LS 7805 14				78 934 74 8 LS 7805	513 514 514 516 516 516 516 516	20001 27700 01300 45305 47001 51900100	78 934 74 8 LS 7805	SF SF FT EACH	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN COMPOSITE FIBER WRAP SYSTEM PATCHING CONCRETE STRUCTURE, AS PER PLAN	153 153 153 154,15 153
								32 78 934 74 8 LS				78 934 74 8 LS	513 514 514 516 516 516 516	20001 27700 01300 45305 47001	78 934 74 8 LS	SF SF FT EACH	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN COMPOSITE FIBER WRAP SYSTEM	153 153 153 154,18 153
								32 78 934 74 8 LS 7805 14				78 934 74 8 LS 7805	513 514 514 516 516 516 516 516	20001 27700 01300 45305 47001 51900100	78 934 74 8 LS 7805	SF SF FT EACH	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN COMPOSITE FIBER WRAP SYSTEM PATCHING CONCRETE STRUCTURE, AS PER PLAN	153 153 153 154,15
								32 78 934 74 8 LS 7805 14				78 934 74 8 LS 7805	513 514 514 516 516 516 516 516	20001 27700 01300 45305 47001 51900100	78 934 74 8 LS 7805	SF SF FT EACH	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT) FIELD PAINTING, MISC.: NEW BEAM ENDS ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS REFURBISH BEARING DEVICE, AS PER PLAN JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN COMPOSITE FIBER WRAP SYSTEM PATCHING CONCRETE STRUCTURE, AS PER PLAN	153 153 153 154,15 153

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REFER TO SUPPLEMENTAL SPECIFICATIONS:

SS 800 (DATED 1-15-2021) SS 844 (DATED 4-20-2018)

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ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE-RAMS WILL NOT BE PERMITTED. THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING REINFORCING STEEL TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

THIS WORK CONSISTS OF THE REMOVAL OF PARAPETS, FENCING, SIDEWALKS, END CROSS FRAMES, ABUTMENT BACKWALL, SLAB AND SIDEWALK CONCRETE, APPROACH SLAB, 1 1/2 " S.P.C. OVERLAY, ADDITIONAL EPOXY COATED REINFORCEMENT AND EXPANSION JOINTS AS INDICATED IN THE PLANS.

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 SECTIONS 102.05 AND 105.02 OF THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN

THE EXISTING STRUCTURE PLANS MAY BE REVIEWED AT THE: OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 OFFICE 5500 TRANSPORTATION BOULEVARD GARFIELD HEIGHTS, OH 44125

EXISTING PLANS ARE ALSO AVAILABLE THROUGH THE FOLLOWING ODOT WEBSITE: HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONTRACTADMIN/CONTRACTS/PAGES/DESIGNFILES.ASPX

DESCRIPTION OF WORK:

- 1. PATCH ABUTMENTS
- 2. PATCH PIERS AND FIBERWRAP
- 3. REFURBISH ABUTMENT BEARING DEVICES
 4. REPAIR FORWARD ABUTMENT SLOPE PROTECTION
 5. REPLACE DETERIORATED CROSS FRAMES
- 6. INSTALL TIMBER SUB DECKING
- CLEAN OUT SCUPPERS
- REMOVE AND REPLACE EXPANSION JOINTS
- 9. REPLACE PARAPETS, VANDAL PROTECTION FENCE, AND SIDEWALKS
- 10. REPAIR SIDEWALK COVER PLATES
- 11. SEAL DECK WITH SRS TREATMENT
- 12. REPLACE GUARDRAIL AT APPROACHES
- 13. PATCH AND SEAL APPROACH SIDEWALK

CUT LINE CONSTRUCTION JOINT PREPARATION

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS PER PLAN

PROPOSED CONCRETE FOR BOTH THE PARAPET AND SIDEWALK ON THE DECK AND APPROACH SLABS SHALL BE QUANTIFIED IN CUBIC YARDS AND BE INCLUDED FOR PAYMENT UNDER ITEM 511 - CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET), AS

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN

SEAL ALL PIER CAPS, ABUTMENT BACK WALLS, AND ABUTMENT STEMS WHERE ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN WAS PERFORMED. THE PROPOSED CONCRETE PARAPETS WITH TWIN STEEL TUBE RAILS SHALL ALSO BE SEALED. THE COLOR OF THE FINISH COAT SHALL BE FS NO. 17778 (LIGHT NEUTRAL). CONTRACTOR SHALL ENSURE ANY EXISTING UNDERPASS LIGHTING FENCE AND POSTS, RAILING AND ALL OTHER BRIDGE COMPONENTS ARE PROTECTED DURING THE SEALING OPERATIONS. SEALING OF THE FIBER WRAPPED AREAS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - COMPOSITE FIBER WRAP SYSTEM.

ALL EQUIPMENT, LABOR, MATERIALS AND INCIDENTALS REQUIRED TO SEAL ALL OF THE AREAS DETAILED IN THE PLANS SHALL BE PAID UNDER ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN.

ITEM 513 - STRUCTURAL STEEL, MISC .: SIDEWALK COVER PLATE REPAIR

THE PLATES COVERING THE SIDEWALK EXPANSION OPENINGS SHALL BE RETROFIT. TRIM EXISTING BENT SLIDING PLATE AT THE FENCE OF SIDEWALK ARMOR. GRIND THE CUT EDGE FLUSH WITH THE TOP SURFACE OF THE ARMOR. WELD THE NEW SLIDING PLATE TO THE TOP OF THE ABUTMENT ARMOR.

MATERIAL SHALL BE A709 GRADE 36 OR 50.

ALL EQUIPMENT, LABOR, AND MATERIALS REQUIRED TO REMOVE THE EXISTING SLIDING PLATE AND INSTALL THE NEW SHALL BE INCLUDED FOR PAYMENT WITH ITEM 513 - STRUCTURAL STEEL, MISC .: SIDEWALK COVER PLATE REPAIR.

ITEM 516 - REFURBISH BEARING DEVICE. AS PER PLAN

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (711.21), INSTALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND REWELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60° F [15° C], LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS. ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH BEARING DEVICE, AS PER PLAN.

<u> ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER</u>

THIS WORK INCLUDES RAISING OR RE-POSITIONING EXISTING STRUCTURES TO PERFORM THE WORK DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH CMS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS OR OTHER DAMAGE TO THE STRUCTURE IS DECK FROM THE STEEL STRINGERS OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH CMS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER

ITEM 518 - SCUPPER, MISC .: SCUPPER CLEANOUT

IN ADDITION TO CMS 518. THIS WORK SHALL ALSO CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING SCUPPERS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL DRAINAGE SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

ALL COSTS INCLUDING LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS TO PERFORM THIS WORK AS APPROVED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT PRICE BID EACH, FOR ITEM 518 - SCUPPER, MISC.: SCUPPER CLEANOUT, EACH.

ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN

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. WHERE APPLICABLE, CONTRACTOR SHALL ENSURE ANY EXISTING BRIDGE RAIL OR ANY OTHER BRIDGE COMPONENTS ARE PROTECTED DURING THE PATCHING OPERATIONS.

SPECIFIC PATCHING LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN ACCORDANCE WITH ITEM 519 UNLESS IDENTIFIED IN THE PLANS, IF EXISTING UTILITIES ARE LOCATED WITHIN THE SPECIFIED PATCHING AREAS, THE COST FOR REMOVAL AND REINSTALLING THE UTILITIES SHALL BE INCLUDED IN THIS ITEM. ALL EQUIPMENT, LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THE ABOVE DESCRIBED WORK SHALL BE INCLUDED FOR PAYMENT AT THE SQUARE FOOT CONTRACT PRICE FOR ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN.

ITEM SPECIAL - STRUCTURES: TIMBER SUBDECK

DESCRIPTION:

THIS ITEM SHALL CONSIST OF FURNISHING, CUTTING, FITTING, PLACING AND ERECTING OF TIMBER, AND THE FURNISHING AND INSTALLING OF ALL NECESSARY HARDWARD AS SPECIFIED.

SUBDECK AREAS ABOVE TRAVELED LANES, AS WELL AS PAVED SHOULDERS.

MATERIALS:

TIMBER BEAMS SHALL CONFORM TO CMS 711.26 AND SHALL BE DOUGLAS FIR LARCH WITH A COMMERCIAL GRADE OF NO. 2 OR BETTER OR SOUTHERN PINE WITH A COMMERCIAL GRADE OF NO. 2 OR BETTER. PRESERVATIVE TREATMENT FOR TIMBER BEAMS SHALL CONFORM TO CMS 712.06.

THE TIMBER SHEATHING SHALL BE ¾ " CDX PRESERVATIVE TREATED PLYWOOD MANUFACTURED FROM EITHER DOUGLAS FIR OR SOUTHERN PINE. ALL TRANSVERSE EDGES OF THE PLYWOOD SHALL BE SUPPORTED BY THE TIMBER BEAMS.

THE BOLTS SHALL BE ASTM A449 - TYPE 1 OR SAE J429 - GRADE 5, $rac{3}{8}$ " DIAMETER GALVANIZED BOLTS WITH GALVANIZED FENDER WASHEŔS AND LOCK ŃUTS. SPACING OF THE BOLTS SHALL BE A MAXIMUM OF 2 FOOT SPACING.

WOOD SCREWS SHALL BE GALVANIZED 3" LONG #10 FASTENERS SPACED AT 2 FOOT MAXIMUM, UNLESS OTHERWISE NOTED.

FIELD MEASUREMENTS SHALL BE TAKEN BEFORE ANY FABRICATION IS PERFORMED.

METHOD OF MEASUREMENT:

THE PAYMENT FOR THIS ITEM SHALL BE SQUARE FOOTAGE IN PLACE AND ACCEPTED. THIS ITEM SHALL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE TIMBER SUBDECKING. PAYMENT SHALL BE MADE UNDER ITEM SPECIAL - STRUCTURES: TIMBER SUBDECK.

LOCATION
-71-0467 AL NOTES - LOC RIDGE NO. CUY-71-0 ITNEY ROAD OVER I

GENERAL NOTES CONTINUED: SEE SHEET 3/14.

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	ATED BY: LAH CKED BY: MMD		1/28/2021 1/28/2021	ESTIMATED QUANTITIES			
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER SUPER. GEN.	REFERENCE SHEET NO.
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			3/20
202	75266	90	FT	VANDAL PROTECTION FENCE REMOVED AND RESET		90	
509	20000	6,415	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL		6,415	
511	34444	43	CY	CLASS OC2 CONCRETE, BRIDGE DECK		43	
512	10101	1.164	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE). AS PER PLAN		1,164	3/20
512	10600	14	FT	CONCRETE REPAIR BY EPOXY INJECTION	14	1,104	3,20
512	74000	1,057	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES		1,057	
513	10201	452	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN		452	3/20, 16/20, 17/20
513	20000	186	EACH	WELDED STUD SHEAR CONNECTORS		186	
513	90000	12,966	LB	STRUCTURAL STEEL, MISC.: NEW BEAM ENDS		12,966	3/20
513	95030	7	EACH	STRUCTURAL STEEL, MISC.: CROSSFRAME DETACHMENT AND REATTACHMENT		7	3/20
513	95030	34	EACH	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MEMBERS, DRILLING		34	3/20, 16/20, 17/20
513	95030	32	EACH	STRUCTURAL STEEL, MISC. REPAIR OF DAMAGED MEMBERS, COPE HOLES		32	3/20, 16/20, 17/20
513	95000	69	FT	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MAIN MEMBER, COMPLETE PENETRATION WELDING		69	3/20, 16/20, 17/20
513	95000	90	FT	STRUCTURAL STEEL, MISC.: REPAIR OF DAMAGED MAIN MEMBER, FILLET WELDING		90	3/20, 16/20, 17/20
514	20001	78	SF	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (THREE COAT)		78	4/20
514	27700	934	SF	FIELD PAINTING, MISC.: NEW BEAM ENDS		934	3/20
516	01300	74	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS		74	
516	45305	8	EACH	REFURBISH BEARING DEVICE, AS PER PLAN		8	3/20, 11/20
516	47001	LUMP		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			3/20, 11/20
SPECIAL	51900100	7,805	SF	COMPOSITE FIBER WRAP SYSTEM		7,805	4/20
519	11101	14	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		14	3/20
844	10001	110	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN		110	4/20

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CALCULATED BY: LAH DATE: 1/28/2021 CHECKED BY: MMD DATE: 1/28/2021 ESTIMATED QUANTITIES										
-1122C	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.
422	202	32000	28	FT	CURB REMOVED				28	
e+s,	609	24510	28	FT	CURB, TYPE 4-C				28	
She										
~	<i>625</i>	25408	13	F T	CONDUIT, 2", 725.051				13	