STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

EXJ-4-87 DATED 1/19/18

PROPOSED WORK

-REPAIR UNSOUND AREAS OF DECK AND APPROACH SLABS -SEAL DECK AND APPROACH SLABS WITH GRAVITY-FED RESIN -PATCH ALL UNSOUND AREAS OF THE CONCRETE RAILING AND CURB -REPLACE EPOXY-URETHANE SEALING ON CONCRETE RAILING, SIDEWALK, AND CURB

POR-43-1150 (OVER CUYAHOGA RIVER, CSXT, ABCR, FRANKLIN AVE)

-REMOVE AND REPLACE THE EXISTING APPROACH SIDEWALK -PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL WITH NON-EPOXY

-RESET AND REFURBISH THE EXISTING ABUTMENT BEARINGS -REMOVE AND REPLACE EXISTING ELASTOMERIC STRIP SEAL AT ALL JOINTS

-PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS -CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE

POR-59-0101 (OVER TALLMADGE AVE AND WHEELING & LAKE ERIE RAILWAY) BEARINGS ARE VERTICALLY ALIGNED AT 60 DEGREES -REPAIR UNSOUND AREAS OF DECK AND APPROACH SLABS -SEAL DECK AND APPROACH SLABS WITH GRAVITY-FED RESIN

-PATCH ALL UNSOUND AREAS OF THE CONCRETE RAILING -REPLACE EPOXY-URETHANE SEALING ON CONCRETE RAILING

-PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL *WITI*₩NON-EPOXY

-RESET AND REFURBISH THE EXISTING ABUTMENT BEARINGS -REMOVE AND REPLACE EXISTING ELASTOMERIC STRIP SEAL AT *ALL JOINTS*

-PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS -CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE -PATCH ALL UNSOUND AREAS OF THE FLOOR AND SEAL

EXISTING STRUCTURE VERIFICATION

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUC-TURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASURE-MENTS. CONSEQUENTLY. THEY ARE INDICATIVE OF THE EXIST-ING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAM-INATION OF THE EXISTING STRUCTURE. HOWEVER. THE DE-PARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 516 - REFURBISHING BEARING DEVICES. AS PER

THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PRO-PERLY ALIGN BRIDGE BEARINGS. AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DIS-ASSEMBLY OF THE BEARINGS. HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (C&MS 711.21), IN-STALLATION OF ANY NECESSARY STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT. REALIGNMENT OF THE UPPER BEARING PLATE BY RE-MOVING EXISTING WELDS AND REWELDING SO THAT THE FARENHEIT, 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 AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. ALL WORK SHALL BE TO THE SATIFACTION 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 DEVICES, AS PER PLAN.

ITEM 519 - PATCHING CONCRETE STRUCTURES, 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.

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.

ITEM SPECIAL – SEALING OF CONCRETE SURFACES WITH TEXCOTE – XL 70 BRIDGE COTE W/SILANE

THIS WORK SHALL INCLUDE SEALING OF THE CONCRETE SURFACES USING XL70 BRIDGE COTE W/SILANE AS PER THE MANUFACTURER'S RECOMMENDATIONS WITH THE FOLLOWING REQUIREMENTS.

MEET THE SURFACE PREPARATION REQUIREMENTS FOR NON-EPOXY SEALERS PER CMS 512.03.F.1 AND REMOVE ANY CURING COMPOUNDS PER THE MANUFACTURER'S RECOMMENDATIONS.

AT LEAST 5 DAYS BEFORE SEALING, PROVIDE THE ENGINEER THE SEALER MANUFACTURER'S WRITTEN REQUIREMENTS FOR APPLICATION EQUIPMENT. MIXING EQUIPMENT. MIXING PROCEDURES, MIXING TIME, STORAGE REQUIREMENTS. AND TECHNICAL AND SAFETY DATA SHEETS.

TINT SO THE FINAL COLOR IS FEDERAL COLOR STANDARD NO. 17778 - LIGHT NEUTRAL FOR PARAPETS ONLY. CLEAR COLOR IS TO BE USED FOR SIDEWALKS.

SAGS AND RUNS ARE NOT ACCEPTABLE IN THE SEALER.

THE DEPARTMENT WILL MEASURE THE SEALING OF CONCRETE SURFACES BY THE NUMBER OF SQUARE YARDS OF COATED AREA PROJECTED TO A TWO-DIMENSIONAL SURFACE.

THE DEPARTMENT WILL CONSIDER THE REMOVAL OF DUST, DIRT, OIL, WAX, CURING COMPOUNDS, EFFLORESCENCE, LAITANCE AND OTHER FOREIGN MATERIALS AS INCIDENTAL TO THE SURFACE PREPARATION OF THE CONCRETE SURFACE TO BE SEALED.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIRE-MENTS DEFINED IN THE PROJECT PLANS. SUBMIT CON-STRUCTION PLANS IN ACCORDANCE WITH C&MS 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 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 A DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDIGE BEARINGS SHALL BE FULLY SEATED 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 BEARINGS. 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 PLAN.

SPECIAL - PATCHING CONCRETE STRUCTURE, CURB REPAIR

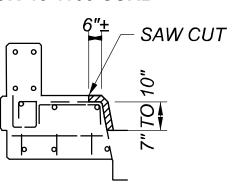
THIS ITEM WILL BE USED TO REPAIR THE DETERIORATED FACE OF THE CURB ON THE BRIDGE DECK AND/OR APPROACH SLABS. THIS WORK WILL BE PERFORMED IN ACCORDANCE WITH ITEM 519 - PATCHING CONCRETE STRUCTURES AND AS MODIFIED HEREIN.

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, MISC.: CURB REPAIR AND WILL BE PAID FOR PER FOOT.

- ITEM SPECIAL - PATCHING CONCRETE STRUCTURE, MISC., 160 FT

POR-43-1150 CURB





DETERIORATED AREAS TO BE REPAIRED

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					CALC: JAR CHECKED:	DATE: 5/22/2021 DATE:
			ESTIMA	TED QUANTI	TIES	
	BRIDGE NO. / STRUCTURE FILE					
		POR-43-1150 6701132 02/NHS/BR POR-59-0101 6701760 02/NHS/BR	ITEM EXTE	NSION UNIT	DESCRIPTION	SEE SHEET
		LS LS		001 LS	CLEARING AND GRUBBING, AS PER PLAN	18
		180	202 30	000 SF	WALK REMOVED	18
		385 205	511 71	200 SF	CONCRETE, MISC.:, PARAPET REPAIR	19
		5		200 SF	CONCRETE, MISC.:, PARAPET WALL REPAIR	19
		160	511 81	200 SF 100 FT	CONCRETE, MISC.:, LIGHT POLE BASE REPAIR CONCRETE, MISC.:, CURB REPAIR	19
		195 65	512	050 SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
		4403 3094	512 73	050 SY 500 SY	SEALING OF CONCRETE SURFACES (NON-EPOXY) TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
		1773 719	512 74	000 SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
		2218 2112 1773 719		500 FT 75500 SY	REMOVAL OF EXISTING PAVEMENT MARKING SEALING OF CONCRETE SURFACES WITH TEXCOTE – XL 70 BRIDGE COTE W/SILANE	19 19 19 18
		205 140	516 01	300 FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS	
		14 16		305 EACH	REFURBISH BEARING DEVICE, AS PER PLAN	18
		LS LS	516 47	001 LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	18
		1750 200	519 11	101 SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	18 18 18
		66 15	519 12	304 SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	
		40		00800 SY	STRUCTURES: CONCRETE SPALL REMOVAL	19
101/101		180		000 SF	4" CONCRETE WALK	
		18	609 26	000 FT	CURB, TYPE 6	
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