ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL		
			GENERAL (PART A AND PART B)			
IB.ART.6		LUMP SUM	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP SUM		
SP 614		LUMP SUM	MAINTAINING TRAFFIC	LUMP SUM		
SP 619	20	MONTH	FIELD OFFICE	20		
SP 623		LUMP SUM	CONSTRUCTION LAYOUT SURVEY	LUMP SUM		
624		LUMP SUM	MOBILIZATION	LUMP SUM		
					OHIO TURNPIKE OVER LORAIN ROAD M.P. 152.3	BAGLEY ROAD OVER OHIO TURNPIKE M.P. 152.9
			ROADWAY			
201		LUMP SUM	CLEARING GRUBBING	LUMP SUM		
202	1239	SQ. YD.	PAVEMENT REMOVED		877	362
202	666	SQ. YD.	APPROACH SLAB REMOVED		519	147
202	925	FOOT	GUARDRAIL REMOVED		150	775
202	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED		4	4
202	246	FOOT	CURB REMOVED		165	81
203	275	CU. YD.	EMBANKMENT		6	269
203	159	CU. YD.	EXCAVATION			159
204	2082	SQ. YD.	SUBGRADE COMPACTION		1426	656
209	6	STA	LINEAR GRADING, AS PER PLAN		6	
251	1000	SQ. YD.	PARTIAL DEPTH PAVEMENT REPAIR		1000	
254	6297	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE (AVERAGE DEPTH=3")		5624	673
255	1000	SQ. YD.	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT		1000	
255	1000	SQ. YD.	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT (USING RAPID REPAIR CONCRETE MIX MATERIAL)		1000	
255	2000	FOOT	FULL DEPTH PAVEMENT SAWING		2000	
301	51	CU. YD.	ASPHALT CONCRETE BASE			51
SP 302	244	CU. YD.	ASPHALT CONCRETE BASE, PG64-22 (2 EQUAL LIFTS)		244	
304	91	CU. YD.	AGGREGATE BASE			91
SP 304	239	CU. YD.	AGGREGATE BASE		239	
SP 402	482	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE , PG76-22 (FR)		482	
SP 404	226	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG76-22 (FR)		226	
407	1090	GAL.	NON-TRACKING TACK COAT		949	141
441	73	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22 (448)			73
441	35	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22 (448)			35
526	80	FOOT	TYPE A INSTALLATION			80
606	675	FOOT	GUARDRAIL, TYPE MGS WITH LONG STEEL POSTS		100	575
606	6	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		2	4
606	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2		2	
SP 606A	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E			2
609	246	FOOT	CURB, TYPE 4-C		165	81
SP 611	6	EACH	CATCH BASIN ADJUSTED TO GRADE		6	
SP 611	4	EACH	CATCH BASIN RECONSTRUCTED TO GRADE			4
SP 611	1	EACH	MANHOLE ADJUSTED TO GRADE		1	
614	1000	DAYS	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN		1000	
614	100	EACH	REPLACEMENT DRUM		100	
614	20	EACH	REPLACEMENT SIGN		20	
614	900	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE		120	780
614	2.21	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT		2.21	
614	2.94	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (YELLOW)		2.94	
614	3.08	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (WHITE)		3.08	
614	2994	FOOT	WORK ZONE DOTTED LINE, CLASS I, 4", 642 PAINT (WHITE)		2994	
614	1.86	MILE	WORK ZONE EDGE LINE, CLASS I, 8", 642 PAINT (YELLOW)		1.86	
614	1.86	MILE	WORK ZONE EDGE LINE, CLASS I, 8", 642 PAINT (WHITE)		1.86	
614	12729	FOOT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT		12729	
SP 614B	0.21	MILE	WORK ZONE WHITE EDGE LINE, 6 INCH		0.21	
SP 614B	0.22	MILE	WORK ZONE YELLOW EDGE LINE, 6 INCH		0.22	
SP 614B	0.2	MILE	WORK ZONE LANE LINE, 6 INCH		0.20	
SP 614B	0.07	MILE	WORK ZONE DOTTED LINE, 4 INCH		0.07	
SP 614B	0.06	MILE	WORK ZONE WHITE EDGE LINE, 8 INCH		0.06	
SP 614B	0.06	MILE	WORK ZONE YELLOW EDGE LINE, 8 INCH		0.06	
SP 614B	0.1	MILE	WORK ZONE CHANNELIZING LINE, 8 INCH		0.1	
SP 614C	7	MILE	REMOVAL OF PAVEMENT MARKING		7	
SP 614ZP	9600	HOURS	ZONE PERSON WITH ZONE VEHICLE		9600	
SP 621	54	EACH	RAISED PAVEMENT MARKER		54	
621	54	EACH	RASIED PAVEMENT MARKER REMOVED		54	
625	580	FOOT	CONDUIT, 2", 725.051			580
625	438	FOOT	CONDUIT, 4", 725.051		438	
SP 626A	3884	EACH	CONSTRUCTION ZONE MARKER		3884	
SP 627	34	CU. YD.	STONE SHOULDER PROTECTION (WITH GUARDRAIL) (T = 3")		34	
630	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			1
630	1	EACH	REMOVAL OF GROUND MOUNTED SUPPORT AND DISPOSAL			1
646	2.60	MILE	EDGE LINE, 6" (YELLOW)		2.60	
646	2.93	MILE	EDGE LINE, 6" (WHITE)		2.68	0.25
646	5.21	MILE	LANE LINE, 6"		5.21	
646	2261	FOOT	DOTTED LINE, 6"		2261	
646	0.12	MILE	CENTER LINE, (DOUBLE YELLOW)			0.12
646	945	FOOT	CHANNELIZING LINE, 12"		945	
659	996	SQ. YD.	SEEDING AND MULCHING		94	902
659	112	CU. YD.	TOPSOIL		11	101
832	10000	EACH	EROSION CONTROL		7000	3000
SPECIAL	3.84	MILE	SONIC NAP ALERT PATTERN (SNAP)		3.84	
SPECIAL	4500	SQ. YD.	SNAP MILL AND FILL		4500	

OHIO TURNPIKE BRIDGE OVER LORAIN ROAD (MP 152.3) ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	ITEM DESCRIPTION
SP 202		LUMP SUM	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
SP 509	237090	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60
509	273	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
SP 511 (QC2)	708	CU. YD.	QC2 CONCRETE, BRIDGE DECK
SP 511 (QC2)	132	CU. YD.	QC2 CONCRETE, BRIDGE DECK (PARAPETS)
SP 511 (QC2)	105	CU. YD.	QC2 CONCRETE, ABUTMENT SLAB
513	15078	EACH	WELDED STUD SHEAR CONNECTORS
SP 514A		LUMP SUM	FIELD PAINTING MISC.: PAINT REPAIR/FIELD TOUCH UP, AS PER PLAN
SP 516A	27	LIN. FT.	CRACK REPAIR USING EPOXY INJECTION
SP 516B	768	LIN. FT.	SEALING OF CONSTRUCTION JOINTS
518	3	EACH	SCUPPERS, INCLUDING SUPPORTS, AS PER PLAN
SP 519	126	SQ. FT.	PATCHING CONCRETE STRUCTURES
SP 525A	2	EACH	HAZARDOUS WASTE COLLECTION, TESTING, AND CLASSIFICATION, AS PER PLAN
SP 525A		LUMP SUM	LEAD PAINT REMOVAL - WORKER/ENVIRONMENTAL PROTECTION AND WASTE HANDLING, AS PER PLAN
526	519	SQ. YD.	REINFORCED CONCRETE APPRACH SLAB (T=12")
SP 527		LUMP SUM	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 529	25	EACH	TRIM END OF STRUCTURAL STEEL MEMBER
SP 533	331	LIN. FT.	THREE (3) INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
SP 533A	331	LIN. FT.	1 1/2 INCH ELASTOMETRIC COMPRESSION SEAL IN STRUCTURAL STEEL JOINTS
SP 536	1171	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
SP 536	3204	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS
SP 536	930	SQ. YD.	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS
601	14	CU. YD.	CRUSHED AGGREGATE SLOPE PROTECTION

BAGLEY ROAD BRIDGE OVER OHIO TURNPIKE (MP 152.9) ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	ITEM DESCRIPTION
SP 202		LUMP SUM	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
SP 509	87276	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60
510	340	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT
511	9	CU. YD.	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
SP 511 (QC2)	274	CU. YD.	QC2 CONCRETE, BRIDGE DECK
SP 511 (QC2)	83	CU. YD.	QC2 CONCRETE, BRIDGE DECK (PARAPETS)
513	3780	EACH	WELDED STUD SHEAR CONNECTORS
SP 514A		LUMP SUM	FIELD PAINTING MISC.: PAINT REPAIR/FIELD TOUCH UP, AS PER PLAN
516		LUMP SUM	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
SP 516B	580	LIN. FT.	SEALING OF CONSTRUCTION JOINTS
SP 516G	24	EACH	REPLACE EXPANSION BEARING DEVICE, AS PER PLAN
SP 516J	6	EACH	REPLACE FIXED BEARING DEVICE, AS PER PLAN
SP 519	18	SQ. FT.	PATCHING CONCRETE STRUCTURES
526	147	SQ. YD.	REINFORCED CONCRETE APPRACH SLAB (T=13")
SP 527		LUMP SUM	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 533	84	LIN. FT.	THREE (3) INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
SP 536	324	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE
SP 536	1005	SQ. YD.	CONCRETE WEATHERPROOFING, DECK AND APPROACH SLABS
SP 536	690	SQ. YD.	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS
SP 607	580	LIN. FT.	TYPE II FENCE, ALL ALUMINUM (6'-0" CHAIN LINK WITH SPECIALS)

DESIGN AGENCY
CARPENTER MARTY transportation
815 GOODALE BLVD. COLUMBUS, OH 43212
614.228.2041 WWW.CARMTRANS.COM

NO.	REVISIONS	BY	DATE
1	ADDENDUM 1	TWG	01/05
2	ADDENDUM 2	TWG	01/10
3	ADDENDUM 3	TWG	01/17

DESIGNED WCS | CHECKED TWG
DRAWN WCS | IN CHARGE TWG

GENERAL SUMMARY

PROJECT 43-24-07
DATE: 11/17/23

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

GENERAL SUMMARY PART B			
ITEM NO.	TOTAL	UNIT	DESCRIPTION
			ROADWAY
202	10	FOOT	CURB REMOVED
202	327	FOOT	GUARDRAIL REMOVED
202	162	SQ. YD.	PAVEMENT REMOVED
202	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
204	676	SQ. YD.	SUBGRADE COMPACTION
209	4.0	STA	LINEAR GRADING, AS PER PLAN
254	1946	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE
255	287	FOOT	FULL DEPTH PAVEMENT SAWING
SP 302	49	CU. YD.	ASPHALT CONCRETE BASE, PG 64-22
SP 304	119	CU. YD.	AGGREGATE BASE
SP 402	116	CU. YD.	ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG76-22
SP 404	88	CU. YD.	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG76-22 (FR)
SP 404A	434	FOOT	JOINT SEALER
SPECIAL	147	FOOT	SAWCUT JOINT
407	300	GAL.	NON-TRACKING TACK COAT
601	98	SQ. YD.	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
606	325	FOOT	GUARDRAIL, TYPE MGS WITH LONG STEEL POSTS
606	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
606	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
609	7	FOOT	CURB, TYPE 4-C
SP 611	2	EACH	CATCH BASIN ADJUSTED TO GRADE
SPECIAL	0.05	MILE	SONIC NAP ALERT PATTERN (SNAP)
SP 627	19	CU. YD.	STONE SHOULDER PROTECTION
659	362	SQ. YD.	SEEDING AND MULCHING
			STRUCTURES
SP 202	1	LUMP	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
SP 509	180949	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60
509	100	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN
SP 511 (QC2)	424	CU. YD.	QC2 CONCRETE, BRIDGE DECK
SP 511 (QC2)	106	CU. YD.	QC2 CONCRETE, ABUTMENT SLAB
SP 511 (QC2)	87	CU. YD.	QC2 CONCRETE, BRIDGE DECK (PARAPETS), AS PER PLAN
511	2	EACH	CONCRETE MISC.: BEARING PEDESTALS (QC1)
SP 514A	1	LUMP	FIELD PAINTING MISC.: PAINT REPAIR/FIELD TOUCH UP, AS PER PLAN
516	1	LUMP	JACKNIG AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
SP 516A	84	LIN. FT	CRACK REPAIR USING EPOXY INJECTION
SP 516B	885	LIN. FT	SEALING OF CONSTRUCTION JOINTS
SP 516G	42	EACH	REPLACE EXPANSION BEARING DEVICE (ABUTMENTS), AS PER PLAN
SP 516G	1	EACH	REPLACE EXPANSION BEARING DEVICE (PIERS), AS PER PLAN
SP 519	290	SQ. FT	PATCHING CONCRETE STRUCTURES
SP 525A	3 2	EACH	HAZARDOUS WASTE COLLECTION, TESTING, AND CLASSIFICATION, AS PER PLAN
SP 525A	1	LUMP	LEAD PAINT REMOVAL - WORKER PROTECTION AND WASTE HANDLING, AS PER PLAN
526	514	SQ. YD.	REINFORCED CONCRETE APPROACH SLAB (T=12")
SP 527	1	LUMP	FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES
SP 533	296	LIN. FT.	THREE (3) INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINT
SP 536	2537	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS, AND APPROACH SLABS
SP 536	688	SQ. YD.	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS
SP 536	1182	SQ. YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE

DESIGN AGENCY
Michael Baker INTERNATIONAL
MICHAEL BAKER INTL.
1111 SUPERIOR AVE.
EAST SUITE 2300
CLEVELAND, OH 44114
P 216-687-9000
F 216-687-6532

NO.	REVISIONS	BY	DATE
-	-	-	-
-	-	-	-
-	-	-	-

DESIGNED AKA | CHECKED KD
DRAWN AKA | IN CHARGE CDC

GENERAL SUMMARY
OHIO TURNPIKE MAINLINE BRIDGE OVER OHIO TURNPIKE
LORAIN COUNTY
M.P. 152.1

PROJECT 43-24-07
DATE: 10/06/2023

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

71-22-10_MP152.1_GG001.dwg: 1/17/24 - 5:09pm

PROPOSED WORK

OHIO TURNPIKE MAINLINE BRIDGE OVER OHIO TURNPIKE RAMP SHALL BE REHABILITATED UNDER THIS CONTRACT. MAJOR WORK INCLUDES REPLACING THE BRIDGE DECK, ABUTMENT SLABS, APPROACH SLABS, BEARING DEVICES AND DECK JOINTS , MISCELLANEOUS PATCHING OF SUBSTRUCTURE, SEALING OF CONSTRUCTION JOINTS, PERFORMING CONCRETE WEATHERPROOFING, AND MAINTENANCE OF TRAFFIC. DETAILS OF THIS WORK ARE SHOWN IN THE PLANS.

DESIGN SPECIFICATIONS

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DATED 2002, AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN LOADING

DESIGN LOADING: HS 20-44 CASE 1 AND THE ALTERNATE MILITARY LOADING

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4,500 P.S.I.
(SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4,000 P.S.I. (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50,000 PSI

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL
2 1/2" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

EXISTING STRUCTURE VERIFICATION

DETAILS, DIMENSIONS, AND ELEVATIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR 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 SECTION 501.02 OF THE SPECIFICATIONS AND OTIC INSTRUCTION TO BIDDERS ARTICLE 2.1 AND GENERAL CONDITIONS ARTICLE 1.5.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR. THE STRUCTURAL STEEL AND STRUCTURAL STEEL DECK JOINTS SHALL NOT BE FABRICATED UNTIL ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES HAVE BEEN FIELD VERIFIED BY THE CONTRACTOR.

ANY ADDITIONAL COSTS RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT OVER THE UNIT PRICE BID WILL BE AWARDED BY THE COMMISSION.

UTILITIES

THE CONTRACTOR SHALL EXERCISE DUE CAUTION WHILE PERFORMING WORK ACTIVITIES AROUND EXPOSED UTILITIES. THE CONTRACTOR MUST ENSURE THAT THESE UTILITIES ARE NOT DAMAGED AS A RESULT OF WORK ACTIVITIES OR THE OPERATION OF EQUIPMENT, AND THE CONTRACTOR MAY BE REQUIRED TO PROVIDE TEMPORARY PROTECTIVE OR SUPPORT SYSTEMS IN ORDER TO PREVENT DAMAGE TO UTILITY LINES AND THEIR SUPPORTS DURING STRUCTURE REPAIR OPERATIONS. IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE APPROPRIATE UTILITY OWNER(S).

IN LIEU OF PROTECTING THE EXISTING CONDUIT NOTED ON SHEET 8 / 26, THE CONTRACTOR MAY ELECT TO REMOVE AND REPLACE THE EXISTING CONDUIT AND BRACKETS. CONDUIT, CABLE AND BRACKET SUPPORTS SHALL BE REPLACED IN-KIND. TIMING OF DE-ENERGIZING AND RE-ESTABLISHMENT OF SERVICE SHALL BE COORDINATED WITH AND APPROVED BY THE CHIEF ENGINEER. LABOR, MATERIALS AND EQUIPMENT ASSOCIATED WITH THIS WORK SHALL BE INCLUDED WITH ITEM SP 202 FOR PAYMENT.

3

REMOVAL

GENERAL:

THE CONTRACTOR SHALL REMOVE THE DESIGNATED PORTIONS OF THE EXISTING STRUCTURE TO THE LIMITS SHOWN ON THE PLANS OR TO THE LIMITS AS DIRECTED BY THE ENGINEER. WHEN SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL WET DOWN THE CONCRETE THOROUGHLY DURING REMOVAL OPERATIONS TO PREVENT SPREAD OF DUST. ALL NECESSARY LABOR, EQUIPMENT AND MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED WITH ITEM SP 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, FOR PAYMENT.

CONCRETE REMOVAL:

CONCRETE SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL EDGED TOOLS AND/OR BY SAW CUTTING THE CONCRETE DECKS AND REMOVING IN SECTIONS.

CARE SHALL BE TAKEN TO ENSURE AGAINST DAMAGE TO THE STEEL AND CONCRETE MEMBERS WHICH ARE TO BE RETAINED AND TO PRESERVE THE BOND OF THE RETAINED REINFORCEMENT TO THE EXISTING CONCRETE. THESE BARS SHALL BE CLEANED OF ALL CONCRETE FRAGMENTS AND FOREIGN MATTER. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH THE BARS; HAND TOOLS SHALL BE EMPLOYED FOR FINAL CLEANING. DAMAGED AREAS OF REINFORCEMENT THAT ARE TO REMAIN SHALL BE CUT AND STRESS TRANSFER ACCOMPLISHED BY EITHER A LAPPED OR MECHANICAL SPLICE. ANY ADDITIONAL REINFORCEMENT OR MECHANICAL SPLICES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COMMISSION. OTHER EXISTING REINFORCEMENT WITHIN THE REMOVAL LIMITS SHALL BE REMOVED AND DISPOSED OF.

CLEANING ABUTMENT BEAM SEATS:

WORK SHALL CONSIST OF REMOVAL OF DIRT, SAND, SOIL, PAPER, GLASS, CANS, AND OTHER DEBRIS FROM DRAINAGE SYSTEMS AND ABUTMENT SEATS. EQUIPMENT MAY CONSIST OF HAND TOOLS, MANUAL BROOMS, POWER BROOMS, AIR COMPRESSORS, WATER TANKS, WATER PUMPS WITH ASSOCIATED DELIVERY HARDWARE TO CLEAN, FLUSH, AND REMOVE DIRT AND DEBRIS. THE FOLLOWING AREAS OF THE BRIDGE ARE TO BE CLEANED:

ABUTMENT BEAM SEAT GUTTER AND DRAINS.

SUBMIT A BRIDGE CLEANING PLAN PRIOR TO WORK IDENTIFYING PROPOSED METHODS AND ANY REQUIRED CONTAINMENT OR TEMPORARY BMP'S ASSOCIATED WITH WASH WATERS.

DISPOSAL OF REMOVED MATERIAL:

THE CONTRACTOR SHALL NOT PERMIT ANY REMOVED MATERIAL TO DROP TO THE GROUND. MEANS SHALL BE PROVIDED FOR CATCHING REMOVED MATERIAL. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL DETAILS OF THE METHODS TO BE USED FOR REMOVING AND COLLECTING THE MATERIAL. ALL CONCRETE, STEEL, REINFORCING STEEL, ASPHALT, ETC. REMOVED FROM THE STRUCTURE, UNLESS SPECIFIED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED BY HIM FROM THE SITE.

UNDER NO CIRCUMSTANCES SHALL THE MATERIAL BE PERMITTED TO REMAIN ON THE PREMISES, RIGHT OF WAY OR STREETS PENDING DISPOSAL OF SAME OR FOR ANY OTHER PURPOSES, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER

CUTTING OR BENDING OF REINFORCING BARS

ANY CUTTING OR BENDING OF BARS NECESSARY TO ACCOMMODATE ANY ESSENTIAL ELEMENT OF WORK RELATED TO THE PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 509 REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL AND/OR ITEM SP 509 EPOXY COATED REINFORCING STEEL UNLESS OTHERWISE NOTED.

DIMENSIONS

DIMENSIONS GIVEN ARE MEASURED HORIZONTALLY AND AT 60° F UNLESS OTHERWISE NOTED. DIMENSIONS GIVEN FOR THE EXISTING STRUCTURE ARE FROM THE ORIGINAL CONSTRUCTION PLANS. SOME VARIATION FROM PLAN DIMENSIONS ARE EXPECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER FIT-UP BETWEEN THE PROPOSED AND EXISTING CONSTRUCTION. ADEQUATE MEASUREMENTS SHALL BE MADE IN THE FIELD PRIOR TO THE FABRICATION OR INSTALLATION OF ANY PART TO ENSURE THAT ALL PARTS CAN BE PROPERLY ASSEMBLED AS SPECIFIED IN THE PLANS. ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT WILL BE AWARDED BY THE COMMISSION.

REPAIR OF EXISTING CONCRETE ELEMENTS

EXISTING REINFORCED CONCRETE STRUCTURE ELEMENTS WHICH ARE INCORPORATED IN THIS CONSTRUCTION PROJECT ARE TO BE MODIFIED AND/OR REPAIRED. A CONDITION SURVEY WAS PERFORMED IN MARCH 2023. REPAIR AREAS WERE DETERMINED BY VISUAL INSPECTION. THE STRUCTURAL ELEMENTS INSPECTED INCLUDE THE BEAMS AND SUBSTRUCTURES. THE RECORDS OF THIS INSPECTION ARE THE BASIS FOR THE REPAIR RECOMMENDATIONS AS DETAILED IN THE PLANS.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE COMMISSION WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. AN ESTIMATED QUANTITY OF 100 POUNDS HAS BEEN INCLUDED FOR THIS WORK. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE COMMISSION

ITEM SP 536 - CONCRETE WEATHERPROOFING

ITEM SP 536 - CONCRETE WEATHERPROOFING SHALL BE APPLIED TO THE FOLLOWING NEW EXPOSED CONCRETE SURFACES OF THE BRIDGE:
- THE TOP OF NEW ABUTMENT SLABS AND NEW SUPERSTRUCTURE SLABS.
- ALL NEW PARAPET SURFACES AND SLAB SIDE EDGES.
- THE BOTTOM SURFACE OF THE NEW SUPERSTRUCTURE SLAB FROM THE SLAB SIDE EDGE TO THE EXTERIOR STRINGER FLANGE.
- ALL EXPOSED CONCRETE SURFACES OF ALL ABUTMENTS AND PIERS. SEALING SHALL NOT BE DONE UNTIL ALL CONCRETE PATCHING REPAIRS HAVE BEEN COMPLETED AND CURED.

CARE SHALL BE TAKEN NOT TO APPLY WEATHERPROOFING ON CONSTRUCTION JOINT SURFACES, SURFACES TO RECEIVE JOINT SEALER OR FASCIA BEAM PAINT.

CONCRETE PARAPETS

DEFLECTION JOINTS:

DEFLECTION JOINTS SHALL BE CONSTRUCTED BY SAWING THE CONCRETE AFTER IT HAS TAKEN ITS INITIAL SET AND BEFORE ANY CRACKS DEVELOP. THE USE OF AN EDGE GUIDE, FENCE OR JIG SHALL BE USED TO ENSURE THAT THE CUT JOINTS SHALL BE STRAIGHT, TRUE AND ALIGNED ON BOTH FACES OF THE PARAPET. THE JOINT SHALL BE THE WIDTH OF THE SAW BLADE, NOT TO EXCEED ONE QUARTER (0.25) INCH, AND SHALL BE ONE AND ONE-HALF (1.5) INCHES DEEP. THE SAW CUT SHALL BE MADE IN THE COMPLETE CIRCUMFERENCE OF THE PARAPET, STARTING AND ENDING AT THE ELEVATION OF THE CONCRETE DECK, EXCEPT AS NOTED ON THE PLANS AND SHALL BE CAULKED WITH A ONE (1) INCH THICKNESS OF MATERIAL CONFORMING TO FEDERAL SPECIFICATION TT-S-00227E. THE BOTTOM HALF (0.5) INCH OF THE SAWED JOINT AT THE OUTSIDE FACE OF THE PARAPET SHALL BE LEFT UNSEALED TO ALLOW ANY WATER WHICH MAY ENTER THE JOINT TO ESCAPE.

PARAPET FORMS:

FORMS FOR THE BRIDGE PARAPETS AND SLAB EDGES SHALL BE IN ACCORDANCE WITH 508.02 OF THE SPECIFICATIONS AND THE FOLLOWING:

WHEN WOOD FORMS ARE USED THEY SHALL PROVIDE A SMOOTH SURFACE OF UNIFORM TEXTURE AND COLOR SUBSTANTIALLY EQUAL TO THAT WHICH WOULD BE OBTAINED WITH THE USE OF NEW PLYWOOD CONFORMING TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY PRODUCT STANDARD PSI FOR EXTERIOR B-B CLASS I PLYWOOD.

FORMS SHALL BE OF A CONSTRUCTION WHICH WOULD ALLOW FOR THEIR REMOVAL WITHIN 24 HOURS OF THE CONCRETE PLACEMENT WITHOUT CAUSING DAMAGE TO THE CONCRETE.

CONSTRUCTION JOINTS

CONSTRUCTION JOINT SURFACES SHALL BE FREE FROM OIL, LAITANCE, FORM RELEASE AGENT, OR ANY OTHER MATERIAL THAT WOULD PREVENT BONDING TO THE CONCRETE SURFACE. ALL LAITANCE AND OTHER CONTAMINANTS SHALL BE REMOVED BY HIGH PRESSURE WATER BLASTING WITH A MINIMUM PRESSURE OF 5,000 P.S.I. HOWEVER, WATER BLASTING SHALL NOT BE REQUIRED WHERE EXISTING CONCRETE HAS BEEN ROUGHENED BY JACKHAMMERS DURING CONCRETE REMOVAL OPERATIONS. SURFACES SHALL BE THOROUGHLY DRENCHED WITH CLEAN WATER AND ALLOWED TO DRY TO A DAMP CONDITION FREE OF STANDING WATER BEFORE PLACING CONCRETE. PREPARATION OF CONSTRUCTION JOINT SURFACES SHALL NOT BE MEASURED FOR PAYMENT. THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT PRICE OF THE PERTINENT CONCRETE ITEMS.

WELD ATTACHMENTS

WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST ¼" FOR THICKNESSES UP TO ¾" OR 5/16" FOR GREATER THAN ¾" THICK.

EXISTING RIGHT OF WAY FENCE

IT IS THE INTENT OF THE PROJECT FOR THE EXISTING RIGHT OF WAY FENCE NEAR THE BRIDGE TO REMAIN, HOWEVER IF THE CONTRACTOR DEEMS IT NECESSARY TO REMOVE THE FENCE FOR HIS OPERATIONS AS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL CAREFULLY REMOVE THE FENCE AND REINSTALL THE FENCE IN ACCORDANCE WITH ITEM 607. IF THE FENCE BECOMES DAMAGED DUE TO THE CONTRACTORS OPERATIONS THE FENCE SHALL BE REPLACED AT NO COST TO THE COMMISSION.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE GRANTED.

DECK SLAB CONCRETE QUANTITY

THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 2 INCHES AND A CONSTANT HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE. THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM/GIRDER, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23.

PROTECTION OF TRAFFIC

THE CONTRACTOR SHALL SUBMIT A PLAN TO PROTECT THE TRAVELING PUBLIC FROM ALL REMOVAL DEBRIS AND/OR CONSTRUCTION MATERIAL THAT MAY COME IN CONTACT OR POSE A DANGER TO THE TRAVELING PUBLIC. SLURRY AND/OR WASTE SHALL NOT BE PERMITTED TO FLOW ONTO OPEN LANES OF TRAFFIC OR INTO STORM SEWERS. THE CONTRACTOR MAY PERFORM THE WORK DURING A WEEKEND, IN ACCORDANCE WITH SP 104. THE PLAN MUST BE SUBMITTED TO THE COMMISSION AND GOVERNING LOCAL AGENCIES PRIOR TO COMMENCEMENT OF WORK.

DECK REMOVALS - COMPOSITE DECK DESIGNS - STEEL SUPERSTRUCTURES

DUE TO THE PRESENCE OF WELDED STUDS TO THE EXISTING STRUCTURAL STEEL, SUBMIT A DETAILED PROCEDURE OF THE DECK REMOVAL WITH THE ENGINEERED DRAWINGS ACCORDING TO C&MS 501.05. ACCEPTANCE BY THE COMMISSION IS NOT REQUIRED. THE PROCEDURE SHALL INCLUDE ALL DETAILS, EQUIPMENT AND METHODS TO BE USED FOR REMOVAL OF THE CONCRETE OVER THE FLANGES AND AROUND THE STUDS. REPLACE OR REPAIR MAIN STEEL AND STUDS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN ACCORDING TO C&MS 501.05.C TO THE ENGINEER TO REPLACE OR REPAIR STRUCTURAL STEEL AND STUDS DAMAGED BY THE REMOVAL OPERATIONS. THE COMMISSION WILL NOT PAY FOR DAMAGE REPAIRS.

DECK PLACEMENT DESIGN ASSUMPTIONS

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHOD WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.45 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE FINISHING MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 70 INCHES.

IT IS ANTICIPATED TEMPORARY BLOCKING AND TIES WILL BE NECESSARY AT FASCIA AND TEMPORARY MAINTENANCE OF TRAFFIC OVERHANGS AS SHOWN ON SHEET 23/26.

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TJH	CDC

STRUCTURE GENERAL NOTES (1 OF 2)
OHIO TURNPIKE MAINLINE BRIDGE OVER OHIO TURNPIKE RAMP
M.P. 152.1
LORAIN COUNTY

PROJECT 43-24-07
DATE: 10/06/2023

1 / 20

7 / 26

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

71-21-10_RAMP_STRUCTURE GENERAL NOTES (1 OF 2).dwg: 1/18/24 - 3:54pm

ITEM SP 514A - FIELD PAINTING MISC.: PAINT REPAIR/FIELD TOUCH UP, AS PER PLAN

THIS WORK CONSISTS OF THE FIELD TOUCH-UP AND REPAIR OF EXISTING PAINT THAT HAS BEEN DAMAGED DUE TO REQUIRED STRUCTURAL STEEL WORK SUCH AS THE TRIMMING OF BEAM ENDS, REMOVAL OF EXISTING BEARINGS, REMOVAL OF EXISTING LOAD PLATES, AND ANY OTHER STRUCTURAL STEEL WORK REQUIRING THE REMOVAL OF EXISTING PAINT.

ALL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SP 514A EXCEPT ALL ITEMS LISTED UNDER SECTION 4.02 - BASIS OF PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR:

ITEM	DESCRIPTION	UNIT
SP 514A	FIELD PAINTING MISC.: PAINT REPAIR/ TOUCH-UP, AS PER PLAN	LUMP

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 REQUIREMENTS DEFINED IN THE PROJECT PLANS.

JACKING SHALL BE PERFORMED TO RAISE THE BRIDGE UNIFORMLY IN ORDER TO MINIMIZE INDUCED STRESSES INTO THE SUPERSTRUCTURE. THE MAXIMUM DIFFERENTIAL ELEVATION CHANGE BETWEEN ADJACENT SUPERSTRUCTURE MEMBERS IS ¼ - INCH AS MEASURED AT OPPOSITE ENDS OF THE SAME CROSS-FRAME MEMBER. THE MAXIMUM DIFFERENTIAL ELEVATION CHANGE BETWEEN ADJACENT BEARINGS OF THE SAME SUPERSTRUCTURE MEMBER IS 1-INCH. PERFORM WORK IN ACCORDANCE WITH C&MS 501.05.B.5. THE SUPERSTRUCTURES SHALL NOT BE RAISED MORE THAN NECESSARY TO ACCOMPLISH THE WORK. ANY DAMAGE TO STRUCTURAL MEMBERS, CONNECTIONS, OR PARTS THAT ARE TO REMAIN AS PART OF THE PERMANENT CONSTRUCTION SHALL BE CORRECTED AND/OR REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE CHIEF ENGINEER.

SUBMIT ENGINEERED DRAWINGS TO THE CHIEF ENGINEER'S PROJECT REPRESENTATIVE FOR JACKING AND TEMPORARY SUPPORT IN ACCORDANCE WITH C&MS 501.05. THE SUBMITTAL SHALL INCLUDE CALCULATIONS AND ALL DETAILS OF THE PROPOSED TEMPORARY SUPPORT AND JACKING SYSTEM, INDICATING MATERIALS, MEMBER SIZES, SPACING, SUPPORT LOCATIONS, JACKING POINTS, REACTIONS, AND REMOVAL PROCEDURES.

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 THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE COMMISSION 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 COMMISSION WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE COMMISSION WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE FOR:

ITEM	DESCRIPTION	UNIT
516	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LUMP

AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK AS DESCRIBED ABOVE.

ITEM SP 516G - REPLACE EXPANSION BEARING DEVICE (ABUTMENTS), AS PER PLAN
ITEM SP 516G - REPLACE EXPANSION BEARING DEVICE (PIERS), AS PER PLAN

THIS WORK SHALL CONFORM TO THE BEARING DETAILS AS PROVIDED IN THE PLANS AND THE SPECIAL PROVISION SP 516G EXCEPT THAT SEPARATE PAYMENT WILL BE MADE FOR THE FOLLOWING ITEMS:

ITEM	DESCRIPTION	UNIT
SP 514A	FIELD PAINTING MISC: PAINT REPAIR/ TOUCH-UP, AS PER PLAN	LUMP
516	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LUMP
SP 525A	LEAD PAINT REMOVAL- WORKER/ENVIRONMENTAL PROTECTION AND WASTE HANDLING, AS PER PLAN	LUMP

ITEM SP 525A - HARZARDOUS WASTE COLLECTION, TESTING AND CLASSIFICATION, AS PER PLAN

THIS WORK CONSISTS OF THE COLLECTION, TESTING, AND CLASSIFICATION OF EXISTING PAINT SAMPLES ON EXISTING STRUCTURES REQUIRING STRUCTURAL STEEL WORK SUCH AS THE TRIMMING OF BEAM ENDS, REMOVAL OF EXISTING BEARINGS, REMOVAL OF EXISTING LOAD PLATES, AND ANY OTHER STRUCTURAL STEEL WORK REQUIRING THE REMOVAL OF EXISTING PAINT WHERE THE CLASSIFICATION IS UNKNOWN. THIS ITEM SHALL BE PERFORMED PER THE REQUIREMENTS SP 525A: SECTION 3.06 D. – WASTE SAMPLING, TESTING, AND CLASSIFICATION AND COMPLETED PRIOR TO COMMENCING ANY STRUCTURAL STEEL WORK. AT LEAST TWO SAMPLES PER BRIDGE WILL BE REQUIRED TO DETERMINE THE EXISTING PAINT HAZARDOUS WASTE CLASSIFICATION. LOCATIONS OF THE SAMPLE COLLECTION WILL BE AS DIRECTED BY THE ENGINEER.

ITEM	DESCRIPTION	UNIT
SP 525A	HAZARDOUS WASTE COLLECTION, TESTING AND CLASSIFICATION, AS PER PLAN	EACH

3

ITEM SP 525A - LEAD PAINT REMOVAL - WORKER PROTECTION AND WASTE HANDLING, AS PER PLAN

THIS WORK CONSISTS OF THE REMOVAL OF EXISTING PAINT THAT HAS BEEN TESTED AND CLASSIFIED AS A HAZARDOUS WASTE PER 525A SECTION 3.06 D.5. PAINT REMOVAL FOR THIS ITEM INCLUDES STRUCTURAL STEEL WORK SUCH AS THE TRIMMING OF BEAM ENDS, REMOVAL OF EXISTING BEARINGS, REMOVAL OF EXISTING LOAD PLATES, AND ANY OTHER STRUCTURAL STEEL WORK REQUIRING THE REMOVAL OF EXISTING HAZARDOUS PAINT. ALL WORK SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SP 525A EXCEPT ALL ITEMS LISTED UNDER SECTION 4.02 - BASIS OF PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR:

ITEM	DESCRIPTION	UNIT
SP 525A	LEAD PAINT REMOVAL - WORKER/ENVIRONMENTAL PROTECTION AND WASTE HANDLING, AS PER PLAN	LUMP

71-21-10_RAMP_STRUCTURE GENERAL NOTES (2 OF 2).dwg: 1/17/24 - 11:28am

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STRUCTURE GENERAL NOTES (2 OF 2)
OHIO TURNPIKE MAINLINE BRIDGE OVER OHIO TURNPIKE RAMP
M.P. 152.1 LORAIN COUNTY

PROJECT 43-24-07
DATE: 10/06/2023

1A/20

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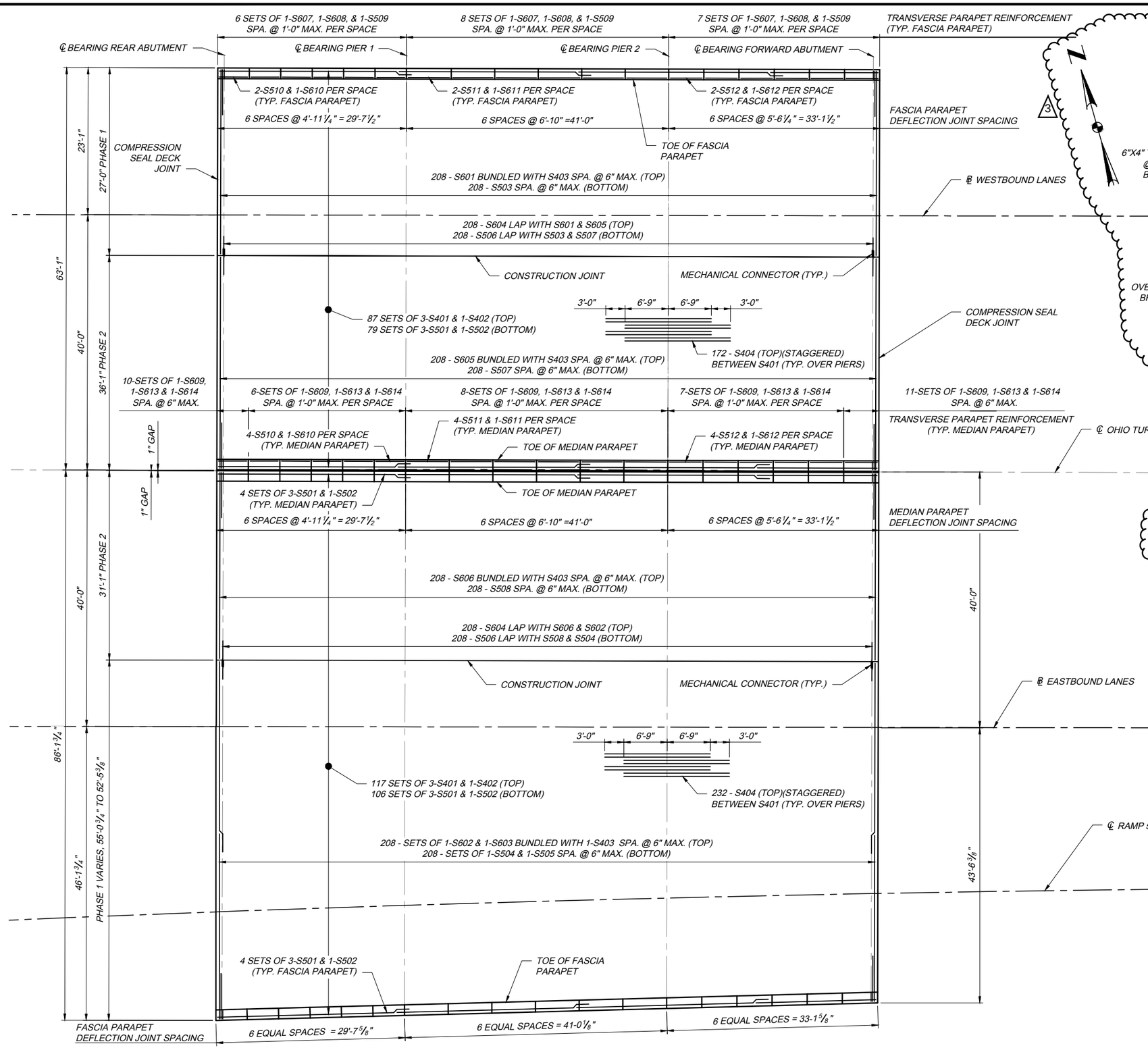
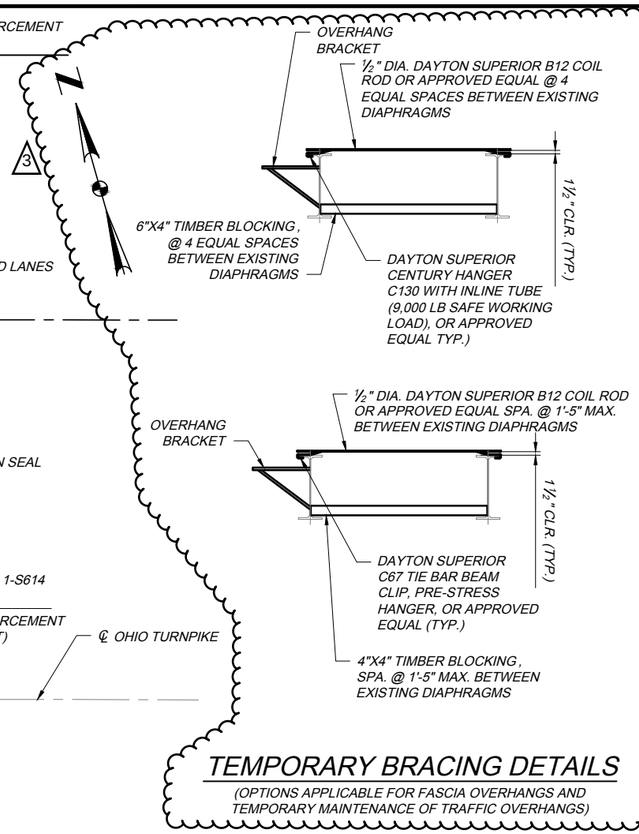
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION



DECK SLAB PLAN



TEMPORARY BRACING DETAILS

(OPTIONS APPLICABLE FOR FASCIA OVERHANGS AND TEMPORARY MAINTENANCE OF TRAFFIC OVERHANGS)

MINIMUM LAP SPLICES:

#4 BARS = 1'-11"
#5 BARS = 3'-2"
#6 BARS = 2'-11"

NOTES:

1. FOR TRANSVERSE SECTION, SEE SHEET 16 OF 20.
2. FOR ABUTMENT SLAB DETAILS, SEE SHEET 11 AND 12 OF 20.
3. FOR DECK JOINT DETAILS, SEE OTIC STANDARD DRAWINGS DJ-1 AND DJ-2.
4. FOR DETAILS OF 42" SBR-1-13 PARAPET, SEE ODOT STANDARD DRAWING SBR-1-13.
5. FOR DETAILS OF 50" SBR-50 MEDIAN PARAPET, SEE OTIC STANDARD DRAWING SBR-50.
6. LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS SHALL BE TREATED IN ACCORDANCE WITH ITEM SP 516B-SEALING OF CONSTRUCTION JOINTS.
7. PROVIDE (5) 4'-6" LONG, ½" DIAMETER GLASS FIBER REINFORCED POLYMER (GFRP) STIFFENING REINFORCEMENTS AT EACH MEDIAN BARRIER DEFLECTION JOINT AND (3) FOR FASCIA PARAPETS TO LAP WITH THE S510, S511, S512, S610, S611, OR S612 BARS. SEE ODOT STANDARD DRAWING SBR-1-13 FOR ADDITIONAL DETAILS OF THE STIFFENING REINFORCEMENT INSTALLATION. PAYMENT FOR FURNISHING AND INSTALLING THE GLASS FIBER REINFORCED POLYMER REINFORCEMENTS SHALL BE INCIDENTAL TO THE BID ITEM FOR SP 511(QC2), QC2 CONCRETE, BRIDGE DECK (PARAPETS), AS PER PLAN.
8. ALL MATERIAL, LABOR, AND EQUIPMENT REQUIRED TO INSTALL AND REMOVE TEMPORARY TIES AND BLOCKING FOR DECK INSTALLATION SHALL BE INCLUDED WITH SP 527 FOR PAYMENT.

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DECK PLAN
OHIO TURNPIKE MAINLINE BRIDGE OVER OHIO TURNPIKE RAMP
LORAIN COUNTY
M.P. 152.1

PROJECT 43-24-07
DATE: 10/06/2023

17/20

23/26

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

71-22-10_RAMP_DECK PLAN.dwg: 1/17/24 - 4:58pm