

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
4. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
5. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE [1] MILE URBAN.
6. IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
7. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
8. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
9. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614- MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.
10. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

- PHASE 1: MILLED SURFACE
- 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 9.02 MILE
 - 614, WORK ZONE LANE LINE, CLASS I, 642 PAINT, 1.69 MILE
 - 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 182 FT
 - 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT, 2,350 FT
 - 614, WORK ZONE MARKING SIGN,(ALL PHASES) 40 EACH
- PHASE 2: SURFACE COURSE
- 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT, 9.02 MILE
 - 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT, 1.69 MILE
 - 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT, 182 FT
 - 614, WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT, 2,350 FT
- TO BE USED AS DIRECTED BY THE ENGINEER
- 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT, 36.08 MILE

adjusted quantities

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 7 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3,000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

PLACEMENT OF ASPHALT CONCRETE

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLCURE	NOTICE DUE TO PERMITS & PIO
ROAD & RAMP CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

DESIGN AGENCY



DESIGNER
CMW

REVIEWER
MJA 03-11-22

PROJECT ID
110668

SHEET TOTAL
P.6 | 25


SUM-176/303-0.23/0.00

MODEL: Sheet PAPER SIZE: 17x11 (in.) DATE: 8/9/2022 TIME: 2:29:48 PM USER: mandrast
 p:\v\hoboc-pw-bentley.com\shahidoc-pw-02\Documents\01 Active Projects\Distict 04\Summit\110668\400-Engineering\Roadway\Sheets\110668_G0001.dgn

SHEET NUM.											PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	10	11	12	13	14	15	19	20	21	01/S>2/PV	02/STR/PV	03/IMS/BR	04/STR/BR	05/STR/BR	06/STR/CV						
ROADWAY																						
							884										202	30000	884	SF	WALK REMOVED	
	300						40									300	202	32000	340	FT	CURB REMOVED	
								225									202	38000	225	FT	GUARDRAIL REMOVED	
50																	203	10000	50	CY	EXCAVATION	
	802																209	60200	802	STA	LINEAR GRADING	
								88									606	15050	88	FT	GUARDRAIL, TYPE MGS	
								38									606	15100	38	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
								2									606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
								1									606	35002	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
								1									606	35140	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
							272										608	10000	272	SF	4" CONCRETE WALK	
							662										608	52000	662	SF	CURB RAMP	
	3																623	39501	3	EACH	MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN	5
							3										625	31600	3	EACH	PULL BOX, MISC.: ADJUSTED TO GRADE	
EROSION CONTROL																						
	22,284																659	10000	22,284	SY	SEEDING AND MULCHING	
	2.99																659	20000	2.99	TON	COMMERCIAL FERTILIZER	
	4.6																659	31000	4.6	ACRE	LIME	
	120.3																659	35000	120.3	MGAL	WATER	
																	832	30000	3,000	EACH	EROSION CONTROL	
DRAINAGE																						
	210															210	611	04400	210	FT	12" CONDUIT, TYPE B	
	2															2	611	98150	2	EACH	CATCH BASIN, NO. 3	
	15																611	98630	15	EACH	CATCH BASIN ADJUSTED TO GRADE	
	3																611	98634	3	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
							1										611	99654	1	EACH	MANHOLE ADJUSTED TO GRADE	
	900																SPECIAL	61199820	900	LB	MISCELLANEOUS METAL	5
PAVEMENT																						
	1,300																251	01000	1,300	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
	200																252	01000	200	SY	FULL DEPTH RIGID PAVEMENT REMOVAL AND FLEXIBLE REPLACEMENT	
	1,650																252	01500	1,650	FT	FULL DEPTH PAVEMENT SAWING	
	100																253	01000	100	SY	PAVEMENT REPAIR	
	50																304	20000	50	CY	AGGREGATE BASE	
		8,072	333	7,205	271												407	20000	15,881	GAL	NON-TRACKING TACK COAT	
		4,472		3,783													408	10001	8,255	GAL	PRIME COAT, AS PER PLAN	5
		2,492	103	2,225	84												424	14001	4,902	CY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN	5
	300						40									300	609	26000	340	FT	CURB, TYPE 6	
		622		526													617	10101	1,148	CY	COMPACTED AGGREGATE, AS PER PLAN	5
				4,400													897	01010	4,400	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T = 2")	
		89,684	3,693	71,245	3,010												897	01010	167,632	SY	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1")	
TRAFFIC CONTROL																						
								927									621	00100	927	EACH	RPM	← removed "yellow/yellow"
								742									621	54000	742	EACH	RAISED PAVEMENT MARKER REMOVED	
								7									626	00110	7	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL	
							265						177	44	44		630	02100	265	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
							60						36	12	12		630	80100	60	SF	SIGN, FLAT SHEET	
							22						18	2	2		630	80100	22	SF	SIGN, FLAT SHEET, 730.20	
							26						18	4	4		630	84900	26	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							26						18	4	4		630	86002	26	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
										18.04	9.72	8.32					646	10010	18.04	MILE	EDGE LINE, 6"	
										1.69	1.23	0.47					646	10110	1.69	MILE	LANE LINE, 6"	
										9.02	4.86	4.16					646	10200	9.02	MILE	CENTER LINE	
										2,350	1,515	835					646	10300	2,350	FT	CHANNELIZING LINE, 8"	
										182	182						646	10400	182	FT	STOP LINE	
										495	260	235					646	10600	495	FT	TRANSVERSE/DIAGONAL LINE	
										114		114					646	10800	114	SF	ISLAND MARKING	
										2		2					646	20110	2	EACH	SCHOOL SYMBOL MARKING, 96"	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER
CMW

REVIEWER
MJP 03-14-22

PROJECT ID
110668

SHEET TOTAL
P.8 | 25

SHEET NUM.							PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	21	01/S>2/PV	02/STR/PV										
		32	20	12	646	20300	32	EACH	LANE ARROW					
		2		2	646	20350	2	EACH	LANE REDUCTION ARROW					
		690		690	646	20504	690	FT	DOTTED LINE, 6"					
									TRAFFIC SIGNALS					
	4		4		632	26501	4	EACH	DETECTOR LOOP, AS PER PLAN				7	
									STRUCTURE REPAIRS					
									FOR SUM-176-0026 ESTIMATED QUANTITIES				23	
									FOR SUM-176-0106 ESTIMATED QUANTITIES				23	
									FOR SUM-303-0014 ESTIMATED QUANTITIES				23	
									FOR SUM-303-0372 ESTIMATED QUANTITIES				23	
									FOR SUM-303-0502 ESTIMATED QUANTITIES				23	
									MAINTENANCE OF TRAFFIC					
100			56	44	614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE					
40			23	18	614	12460	40	EACH	WORK ZONE MARKING SIGN					
20			12	9	614	13000	20	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC					
	12		7	5	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	changed to "as per plan"			7	
1.69			1.23	0.46	614	26110	1.69	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT					
1.69		adjusted quantities	1.23	0.46	614	20560	1.69	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT					
9.02			4.86	4.16	614	21100	9.02	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT					
9.02			4.86	4.16	614	21550	9.02	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT					
36.08			27.76	8.32	614	22300	36.08	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT					
2,350			1,515	835	614	23200	2,350	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT					
2,350			1,515	835	614	23680	2,350	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT					
182			182		614	26200	182	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT					
182			182		614	26610	182	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT					
									INCIDENTALS					
			LUMP		614	11000	LS		MAINTAINING TRAFFIC					
			6		619	16010	6	MNTH	FIELD OFFICE, TYPE B					
			LUMP		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING					
			LUMP		624	10000	LS		MOBILIZATION					

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

CMW

REVIEWER

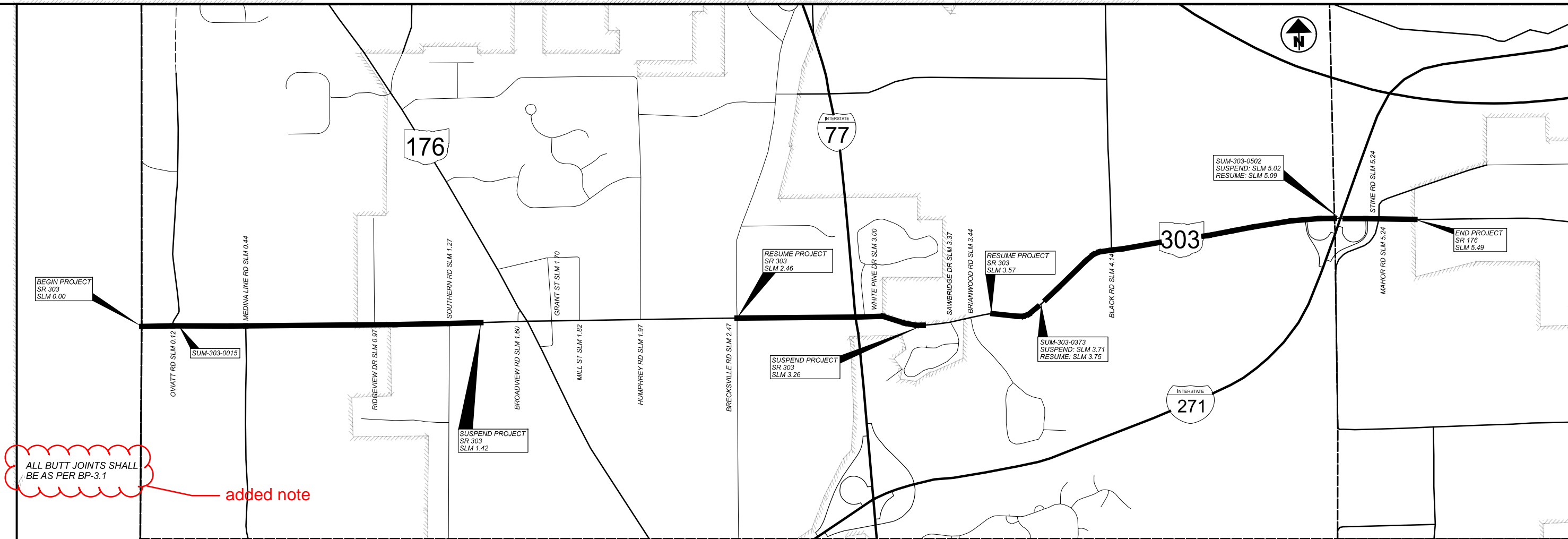
MJP 03-14-22

PROJECT ID

110668

SHEET TOTAL

P.9 25



ALL BUTT JOINTS SHALL BE AS PER BP-3.1
 added note

SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	407		408		424		617		897							
							NON-TRACKING TACK COAT @ 0.09 GAL/SY		PRIME COAT, AS PER PLAN @ 0.4 GAL/SY		FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, (448), AS PER PLAN (T=1")		COMPACTED AGGREGATE, AS PER PLAN (T=2")		PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A (T=1")							
FT	FT	SY	SY	GAL	GAL	CY	CY	SY														
INTERSECTIONS																						
0.00	TO	0.88	10.00	VARIES	164.71		14.82			4.58						164.71						
0.88	TO	1.42	10.00	VARIES	118.91		10.70			3.30						118.91						
2.46	TO	3.26	10.00	VARIES	566.11		50.95			15.73						566.11						
3.57	TO	5.49	10.00	VARIES	915.82		82.42			25.44						915.82						
DRIVEWAYS																						
0.00	TO	0.88	2.00	VARIES	1.90		0.17			0.05						1.90						
0.88	TO	1.42	2.00	VARIES	2.60		0.23			0.07						2.60						
2.46	TO	3.26	2.00	VARIES	2.60		0.23			0.07						2.60						
3.57	TO	5.49	2.00	VARIES	3.30		0.30			0.09						3.30						
MAILBOX APPROACHES																						
0.00	TO	0.88	VARIES	VARIES	154.15		13.87			4.28						154.15						
0.88	TO	1.42	VARIES	VARIES	369.96		33.30			10.28						369.96						
2.46	TO	3.26	VARIES	VARIES	400.79		36.07			11.13						400.79						
3.57	TO	5.49	VARIES	VARIES	308.30		27.75			8.56						308.30						
SUBTOTALS							0.00	270.82	0.00	0.00	0.00	83.59	0.00	0.00	0.00	3009.15	0.00	0.00	0.00	0.00	0.00	
TOTALS CARRIED TO GENERAL SUMMARY							0	271	0	0	0	84	0	0	0	3010	0	0	0	0	0	0

DESIGN SPECIFICATIONS

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

EXISTING STRUCTURE VERIFICATION

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 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 EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK

SUM-176-0026 (OVER IR 77)

- REPLACE FORWARD AND REAR ELASTOMERIC STRIP SEAL GLANDS
- PATCH VISIBLE DAMAGE ON THE WEARING SURFACE OF THE FORWARD APPROACH SLAB
- CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE

SUM-176-0106 (OVER IR 271)

- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND SEAL WITH EPOXY URETHANE
- REMOVE THE EXISTING SEALANT FROM TOP AND INSIDE AREAS OF PARAPETS AND SEAL WITH NON-EPOXY
- CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE

SUM-303-0014 (OVER ROCKY RIVER)

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

SUM-303-0372 (OVER FURNACE CREEK)

- SEAL DECK AND APPROACH SLABS WITH GRAVITY-FED RESIN
- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND DECK EDGE AND SEAL WITH NON-EPOXY
- CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE
- PROVIDE NEW, CORRECT STRUCTURE IDENTIFICATION SIGNS

SUM-303-0502 (OVER IR 271)

- PATCH ALL UNSOUND AREAS OF THE SUBSTRUCTURE AND PARAPETS AND SEAL WITH EPOXY URETHANE
- PATCH ALL UNSOUND AREAS OF THE CONCRETE RAILING
- CLEARING AND GRUBBING 15 FEET AROUND THE STRUCTURE

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.

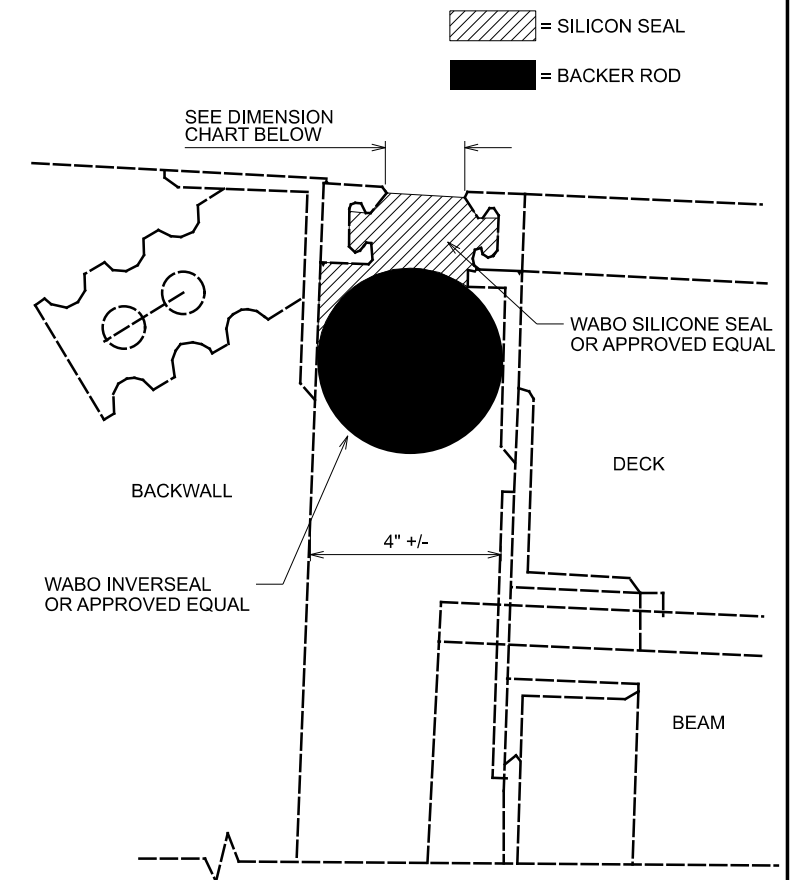
ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 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 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC.: SILICON SEAL (SUM-176-0026)

THE CONTRACTOR SHALL REMOVE THE EXISTING PORTIONS OF STRIP SEAL FROM BOTH EXPANSION JOINTS AND INSTALL AN APPROVED BACKER ROD AND SILICON SEAL AS SHOWN IN THE BELOW DETAIL. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING THIS WORK.

THIS WORK WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC.: SILICON SEAL. THIS PRICE WILL INCLUDE THE REMOVAL OF EXISTING SEALS, INSTALLATION OF NEW MATERIALS, LABOR, MATERIALS, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.



TEMPERATURE (°F)	SUM-176-0026 FWD ABUTMENT	SUM-176-0026 REAR ABUTMENT
30	1 15/16"	1 15/16"
40	1 13/16"	1 13/16"
50	1 11/16"	1 11/16"
60	1 9/16"	1 9/16"
70	1 7/16"	1 7/16"
80	1 5/16"	1 5/16"
90	1 3/16"	1 3/16"

changed sealing to non-epoxy

BRIDGE GENERAL NOTES
STRUCTURES: SUM-176-0026, SUM-176-0106, SUM-303-0014, SUM-303-0372, SUM-303-0502

DESIGN AGENCY



DESIGNER
CMW

REVIEWER
MJA 03-11-22

PROJECT ID
110668

SUBSET	TOTAL
1	4

SHEET	TOTAL
P.22	25


CALC:	CMW	DATE:	3/9/2022
CHECKED:	MJA	DATE:	3/11/2022

ESTIMATED QUANTITIES									
BRIDGE NO. / STRUCTURE FILE NO.					ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
SUM-176-0026 7707711 03/IMS/BR	SUM-176-0106 7707746 03/IMS/BR	SUM-303-0014 7709864 05/STR/BR	SUM-303-0372 7709862 04/STR/BR	SUM-303-0502 7709900 03/IMS/BR					
LUMP	LUMP	LUMP	LUMP	LUMP	201	11001	LS	CLEARING AND GRUBBING, AS PER PLAN	¼
	431		451		512	73500	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
	12		12		512	10050	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	431		12		512	10100	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					512	74000	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
107					516	14600	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.: SILICON SEAL	¼
	100		100	100	519	11101	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	¼
3					519	12304	SY	PATCHING CONCRETE BRIDGE DECK - TYPE C	

added non-epoxy
 item, adjusted
 epoxy-urethane
 quantity

BRIDGE ESTIMATED QUANTITIES
 STRUCTURES: SUM-176-0026, SUM-176-0106,
 SUM-303-0014, SUM-303-0372, SUM-303-0502

DESIGN AGENCY



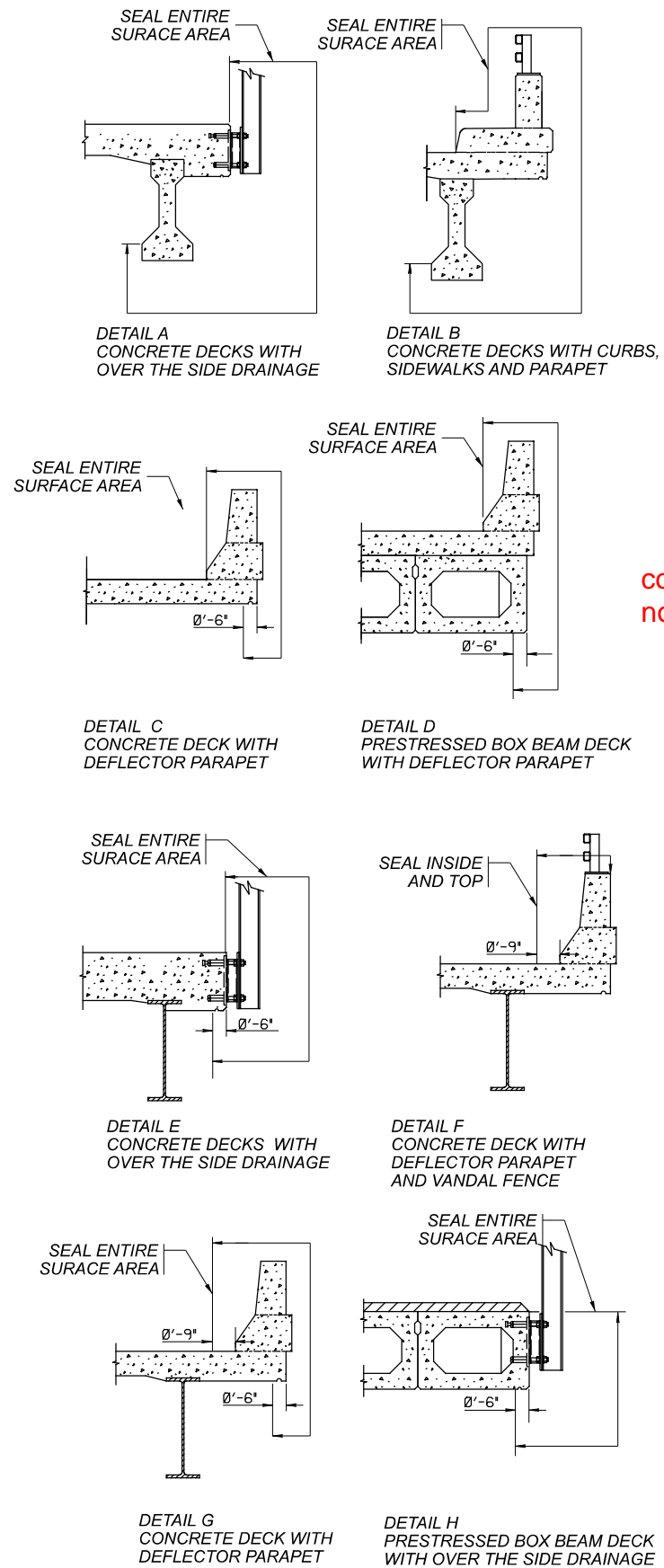
DESIGNER
 CMW

REVIEWER
 MJA 03-11-22

PROJECT ID
 110668

SUBSET	TOTAL
2	4

SHEET	TOTAL
P.23	25



converted to non-epoxy

BRIDGE NUMBER	STRUCTURE TYPE	PROPOSED SEALING	FEDERAL COLOR NUMBER	ESTIMATED QUANTITIES				
				ABUT (SQ YD)	PIER (SQ YD)	SUPER (SQ YD)	GENERAL (SQ YD)	TOTAL (SQ YD)
SUM-176-0106	STEEL BEAM CONTINUOUS	SEAL FRONT AND TOP PORTIONS OF PARAPETS PER DETAIL F WITH NON-EPOXY				431		431
SUM-176-0106	CONCRETE SLAB CONTINUOUS	SEAL ALL PATCHED AREAS WITH EPOXY-URETHANE	MATCH EXISTING				12	12
SUM-303-0372	STEEL BEAM CONTINUOUS	SEAL ALL PATCHED AREAS WITH NON-EPOXY					12	12
SUM-303-0502	STEEL BEAM CONTINUOUS	SEAL ALL PATCHED AREAS WITH EPOXY-URETHANE	MATCH EXISTING				12	12

BRIDGE SUPERSTRUCTURE DETAILS
 STRUCTURES: SUM-176-0106, SUM-303-0372, SUM-303-0502
 OVER WHEATLEY RD, OVER FURNACE CREEK, UNDER SR 303

DESIGN AGENCY

DESIGNER
CMW

REVIEWER
MJA 03-11-22

PROJECT ID
110668

SUBSET	TOTAL
4	4

SHEET	TOTAL
P.25	25