

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 SHALL NOT BE PERMITTED AT PROJECT COST NOR TIME COMPENSATION. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 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 FLAGGERS BE USED.

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 LIGHT).

DURING PERIODS WHERE TRAFFIC NEEDS TO BE DIRECTED CONTRARY TO A TRAFFIC CONTROL DEVICE (FLAGGER, SIGN [E.G. STOP SIGN, STREET OR HIGHWAY SIGNS, ETC], SIGNAL OR OTHER DEVICE USED TO REGULATE, WARN OR GUIDE TRAFFIC). TRAFFIC IN THIS INSTANCE INCLUDES VEHICULAR, PEDESTRIAN AND/OR SHARED USE PATH USERS.

IN ADDITION TO THE REQUIREMENT OF C&MS 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) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES THAT MEET ALL OF THE CRITERIA LISTED BELOW: 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).

- CRITERIA
- ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
 - AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION; AND,
 - AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

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 AND/OR IN CONTRARY TO OTHER TRAFFIC CONTROL DEVICE IN WORK ZONES.

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.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. 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 PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

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 SHIFT DURATION SHALL NOT BE LESS THAN THE LEO'S MINIMUM SHOW-UP TIME REQUIRED BY THEIR LAW ENFORCEMENT AGENCY.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.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 THAT 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 200 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 A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

TRU-80-2.439 (SFN 7803516) RAMP CLOSURES AND DETOURS WITH PCMS

BELOW IS A TABLE WITH RAMP DETOUR AND PCMS INFORMATION FOR USE AS DIRECTED BY THE ENGINEER. RAMP CLOSURES SHALL NOT BE PERFORMED CONCURRENTLY WITHOUT APPROVAL FROM THE ENGINEER.

RAMP	PROPOSED WORK	PERMITTED CLOSURE TIME	DURATION	DETOUR ROUTE	APPROX. NUMBER OF PCMS
RAMP B (IR-80 WB TO US-422)	STRUCTURE REPAIRS	7:00 PM TO 6:00 AM WEEKLY	2 NIGHTS	TAKE SR 711 TO US 422	3
RAMP E (US-422 WB TO IR-80 EB)	STRUCTURE REPAIRS	7:00 PM TO 6:00 AM WEEKLY	2 NIGHTS	TAKE SR 711 TO IR 80	3

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT BARRIER REFLECTOR SPACING SHALL BE AT APPROXIMATELY 10-FOOT INTERVALS. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70 WITH THE MODIFICATION THAT OBJECT MARKER SPACING SHALL BE AT APPROXIMATELY 25-FOOT INTERVALS. WHEN THE PB OR PERMANENT BARRIER (INCLUDING BRIDGE PARAPETS) CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

[INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.]

[THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.]

[DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE CRIMPED. PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT-101.70.]

[TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AT APPROXIMATELY 10-FOOT INTERVALS AND ALIGNED PER TRAFFIC SCD MT-101.70.]

ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FROM SHEETS P.7C AND P.7D.

[ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.]

TRU-80-2.439 (SFN 7803516) PEDESTRIAN TRAFFIC DETOUR

THE CONTRACTOR SHALL INSTATE THIS DETOUR PRIOR TO ANY WORK PERFORMED ON THIS STRUCTURE. DETOUR ALL PEDESTRIAN TRAFFIC FOR THE DURATION OF 7 DAYS OR FOR A DURATION AS APPROVED BY THE ENGINEER. THE DETOUR DESCRIPTION FOR EACH DIRECTION OF TRAVEL ARE GIVEN BELOW.

PEDESTRIAN TRAFFIC TRAVELING NORTH ACROSS THE BRIDGE (OVER TRU-SR-80, BETWEEN MORRIS AVE. TO MAPLE AVE.):

TRAVEL WEST ALONG MAPLE AVE. SIDEWALK TO S. STATE ST (SR 422) SIDEWALK. TURN RIGHT ON S. STATE ST (SR 422) SIDEWALK AND TRAVEL NORTH ALONG THE SIDEWALK ON THE EAST SIDE. END DETOUR AT MORRIS AVE.

PEDESTRIAN TRAFFIC TRAVELING SOUTH ALONG THE BRIDGE (OVER TRU-SR-80, BETWEEN MORRIS AVE. TO MAPLE AVE.):

TRAVEL WEST ALONG MORRIS AVE. SIDEWALK TO S. STATE ST (SR 422) SIDEWALK. TURN LEFT ON S. STATE ST (SR 422) SIDEWALK AND TRAVEL SOUTH ALONG THE SIDEWALK ON THE EAST SIDE. END DETOUR AT MAPLE AVE.

THE PEDESTRIAN DETOUR SHALL BE SIGNED IN ACCORDANCE WITH STANDARD CONSTRUCTIOND DRAWING MT-110.10. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DESIGN AGENCY



DESIGNER

CLG

REVIEWER

MJA 04-07-25

PROJECT ID

121533

SHEET

P.7A

TOTAL

P.16

WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION(S) HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER(S)	COUNTY-ROUTE-SECTION(S)	DIRECTION(S)
WZ-26232	POR-76 SLM 19.47-20.41	EASTBOUND
WZ-26232	POR-76 SLM 19.89-20.83	WESTBOUND

WZSZ REVISION NUMBERS FIXED

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

[WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.]

[WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS SHALL BE IN ACCORDANCE WITH THIS NOTE AND SCD MT-104.10. ADDITIONALLY PAYMENT MAY BE REMOVED, OR A DISINCENTIVE APPLIED, FOR WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS THE SAME AS DESCRIBED IN THE MOST RECENT PUBLICATION OF SS 808 IN REGARDS TO WZSZS USING DSL SIGN ASSEMBLIES (SEE SS 808.06 PARAGRAPHS 4 THROUGH 7, INCLUDING TABLE 1).]

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMUTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH)
FOR WORK ZONES ON HIGH-SPEED (55 MPH
OR GREATER) MULTI-LANE HIGHWAYS

	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
ORIGINAL POSTED SPEED LIMIT	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
2 SIGN MNTH
[ASSUMING 2 DSL SIGN ASSEMBLIES FOR 1 MONTH]

DESIGN AGENCY



DESIGNER

CLG

REVIEWER

MJA 04-07-25

PROJECT ID

121533

SHEET

P.7B

TOTAL

P.16

SHEET NUM.								PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.5	P.6	P.7	P.7A	P.7B	P.7C	P.7D	P.9	01/IMS	02/NHS						
														ROADWAY	
LS					3,512	SPLIT NAMES EDITED TO MATCH ELLIS		3,512		202	23000	3,512	SY	PAVEMENT REMOVED	P.5
								LS		SPECIAL	69091000	LS		AS-BUILT CONSTRUCTION PLANS	
								3,000		832	30000	3,000	EACH	EROSION CONTROL	
														TRAFFIC CONTROL	
4								4		621	00100	4	EACH	RPM	
4								4		621	54000	4	EACH	RAISED PAVEMENT MARKER REMOVED	
12								12		626	00102	12	EACH	BARRIER REFLECTOR, TYPE 1, (ONE-WAY)	
							118	103	15	630	02100	118	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
							36	24	12	630	80100	36	SF	SIGN, FLAT SHEET	
							8	6	2	630	80100	8	SF	SIGN, FLAT SHEET, 730.20	
							7	6	1	630	84900	7	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							5	4	1	630	86002	5	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
5.8								5.8		646	10010	5.8	MILE	EDGE LINE, 6"	
1.46								1.46		646	10110	1.46	MILE	LANE LINE, 6"	
														DESCRIPTION REMOVED	
														STRUCTURE REPAIRS	
														FOR MAH-422-4.955 ESTIMATED QUANTITIES	P.12
														FOR POR-76-20.081L ESTIMATED QUANTITIES	P.12
														FOR POR-76-20.084R ESTIMATED QUANTITIES	P.12
														FOR TRU-80-2.439 ESTIMATED QUANTITIES	P.12
														MAINTENANCE OF TRAFFIC	
			200					100	100	614	11110	200	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					120	120		240		614	11630	240	FT	INCREASED BARRIER DELINEATION	
	4				2	2		4		614	12380	4	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
								4		614	12460	4	EACH	WORK ZONE MARKING SIGN	
					80	80		160		614	13310	160	EACH	BARRIER REFLECTOR, TYPE 1, (ONE-WAY)	
														PLAN SPLIT ASSIGNMENTS REVISED	
					34	34		68		614	13350	68	EACH	OBJECT MARKER, ONE WAY	
		12						10	2	614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	P.7
1.45								1.45		614	20560	1.45	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
0.73					2.16	1.3		4.19		614	22360	4.19	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
					1,680			1,680		614	24612	1,680	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
					3,512			3,512		615	20001	3,512	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	P.6
					780	780		1,560		622	41100	1,560	FT	PORTABLE BARRIER, UNANCHORED	
				2				2		808	18700	2	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
														INCIDENTALS	
								LS		614	11000	LS		MAINTAINING TRAFFIC	
								6		619	16010	6	MNTH	FIELD OFFICE, TYPE B	
								LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
								LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

CLG

REVIEWER

MJA 04-07-25

PROJECT ID

121533

SHEET

P.8

TOTAL

P.16

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15 DATED (REVISED) 1/20/2023
VPF-1-24 DATED (REVISED) 7/19/2024

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED 1/19/2024
844 DATED 1/17/2025
848 DATED 7/19/2024

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFIC-ATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2012 INTERIM SPECIFICATIONS, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

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 C&MS, SECTIONS 102.05, 105.02, AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UN-CERTAINTIES 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 THAT HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK TABLE

MAH-422-4.955 (SFN 5005493)
(OVER LINCOLN PARK & DRY RUN)
- INSTALL A NEW VANDAL PROTECTION FENCE ON THE CONCRETE CURB SIDE OF THE STRUCTURE.

POR-76-20.081L (SFN 6703097)
(OVER UNIVERSAL RD & ADB RAILROAD)
- REMOVE THE EXISTING WEARING SURFACE AND REPLACE WITH A MICRO-SILICA CONCRETE OVERLAY.
- CLEARING & GRUBBING, AROUND BRIDGES/STRUCTURES/CULVERTS

POR-76-20.084R (SFN 6703127)
(OVER UNIVERSAL RD & ADB RAILROAD)
- REMOVE THE EXISTING WEARING SURFACE AND REPLACE WITH A MICRO-SILICA CONCRETE OVERLAY.
- CLEARING & GRUBBING, AROUND BRIDGES/STRUCTURES/CULVERTS

TRU-80-2.439 (SFN 7803516)
(OVER IR 80)
- REMOVE AND REPLACE THE VANDAL PROTECTION FENCE ON BOTH SIDES OF THE STRUCTURE.
- PATCH UNSOUND AREAS OF THE DECK EDGE AND SEAL WITH EPOXY-URETHANE. COLOR OF EPOXY-URETHANE SHALL MATCH THE EXISTING COLOR.
- REMOVE SPALLS ON DECK UNDERSIDE AND TREAT THE AREAS WITH ZINC PRIMER, MORTAR, COMPOSITE FIBER WRAP, AND EPOXY-URETHANE.
- CLEARING & GRUBBING, AROUND BRIDGES/STRUCTURES/CULVERTS

STRUCTURE PAINTING/CONCRETE SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

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.

SPALL REMOVAL ON STRUCTURE TRU-80-2.439 OVER TRAVEL LANES AND PAVED SHOULDERS

THE FOLLOWING WORK AND QUANTITIES SHALL BE USED ON THIS STRUCTURE TO REPAIR THE CONCRETE SPALLS OVER TRAVEL LANES AND PAVED SHOULDERS. EPOXY-URETHANE CONCRETE SEALER SHALL MATCH EXISTING COLOR.

DECK EDGES:
ITEM SPECIAL - STRUCTURES: CONCRETE SPALL REMOVAL WITH ZINC RICH PRIMER APPLIED, 4 SY
ITEM 512 – SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 5 SY
ITEM SPECIAL – COMPOSITE FIBER WRAP SYSTEM, 45 SF
ITEM 843 – PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR, 40 SF

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN (TRU-80-2.439)

519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPT-ABLE METHODS INCLUDE: HIGH-PRESSURE WATER BLAST-ING WITH, OR WITHOUT, ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT OR VACUUM ABRASIVE BLASTING.

DECK EDGE
-ITEM 519, PATCHING CONCRETE STRUCTURES, AS PER PLAN, 40 SF

VANDAL PROTECTION FENCE REPLACEMENT (TRU-80-2.439, SFN 7803516)

THIS WORK SHALL CONSIST OF REMOVING THE EXISTING FENCE AND INSTALLING A NEW VANDAL PROTECTION FENCE. THE CONTRACTOR SHALL CUT THE EXISTING BASE PLATE POSTS FLUSH WITH THE PARAPET AND PATCH AND SEAL WITH EPOXY-URETHANE. THE NEW FENCE POSTS SHALL BE OFFSET A A MINIMUM OF 2 FEET FROM THE EXISTING POSTS. THE CONTRACTOR SHALL LAYOUT FENCE POSTS AS PER STANDARD DRAWING VPF-1-24. THE PROPOSED FENCE SHALL BE POST SECTION PS-1 AND BASE PLATE BP-2 ON THE PARAPETS. THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED FOR THE REPLACEMENT OF THE VANDAL PROTECTION FENCE.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK (FEDERAL COLOR NO. 27038).

EPOXY-URETHANE CONCRETE SEALER SHALL MATCH EXISTING COLOR.

202, VANDAL PROTECTION FENCE REMOVED, 624 FEET
607, VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER PLAN, 624 FEET
843, PATCHING CONCRETE STRUCTURE WITH TROWELABLE MORTAR, 80 SF
512, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), 9 SY

ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN (POR-76-20.081L, SFN 6703097 AND POR-76-20.084R, SFN 6703127)

THIS ITEM SHALL BE USED TO SEAL THE CONSTRUCTION JOINT CREATED ON THE BRIDGE DECK AFTER THE CONCRETE OVERLAY WORK IS COMPLETE AND BEFORE OPENING TO TRAFFIC. THE SEALANT SURFACE AREA SHALL BE A MINIMUM OF 12 INCHES WIDE (6 INCHES ON EACH SIDE OF THE JOINT).

Removed anode note

STRUCTURE GENERAL NOTES

BRIDGE NO.: MAH-422-4.955, POR-76-20.081L, POR-76-20.084R, TRU-80-2.439
OVER VARIOUS

SFN	
VARIOUS	
DESIGN AGENCY	
DESIGNER	CHECKER
CLG	MJA
REVIEWER	
TJP	04-07-25
PROJECT ID	
121533	
SUBSET	TOTAL
1	7
SHEET	TOTAL
P.10	P.16

- corrected plan splits