

**ITEM 614, MAINTAINING 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 (OMUTCD), CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. A MINIMUM OF ONE 11'-0" (UNLESS SHOWN OTHERWISE IN THE PLANS) IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT ALONG S.R. 17. A MINIMUM OF ONE (1) FOOT SHALL BE MAINTAINED BETWEEN TRAFFIC AND CHANNELIZING DEVICES DRUMS, PCB, ETC.)
2. THE CONTRACTOR SHALL INFORM DISTRICT OFFICE (TWELVE) (216-518-2100), THE VILLAGE OF BROOKLYN HEIGHTS (216-351-0131), THE CITY OF CLEVELAND (216-664-2379) AND THE CITY OF PARMA (440-885-8110) EIGHTEEN DAYS (18) DAYS IN ADVANCE OF A DETOUR ROUTE GOING INTO EFFECT, CHANGE IN TRAFFIC PATTERNS AS SHOWN IN THESE PLANS AND/OR BEGINNING WORK.
3. ONLY DURING OFF-PEAK PERIODS (I.E. ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
4. RAMPS SHALL ONLY BE CLOSED IN THEIR APPROPRIATE MOT PHASE AS INDICATED IN THESE PLANS.

**SEQUENCE OF CONSTRUCTION**

ONE LANE OF TRAFFIC IN EACH DIRECTION (EASTBOUND & WESTBOUND) ON S.R. 17 SHALL BE MAINTAINED AT ALL TIMES. ONE NORTHBOUND LANE OF TRAFFIC SHALL BE MAINTAINED ON TUXEDO AT ALL TIMES. SOUTHBOUND TRAFFIC ALONG TUXEDO AVENUE WILL BE PERMITTED NORTH OF S.R. 17 FOR LOCAL TRAFFIC ONLY AS DETAILED IN THESE PLANS.

**PRE-PHASE IA**

TRAFFIC SHALL BE MAINTAINED AS INDICATED IN THE PLANS. THIS PHASE SHALL REMOVE THE EXISTING MEDIAN CURB ON THE WESTERN PORTION OF THE BRIDGE DECK AND INSTALL NEW EXPANSION JOINT ARMOR AT THE REAR ABUTMENT AS WELL AS INSTALL A NEW CONCRETE OVERLAY AS INDICATED IN THE PLANS. PHASE IB MAY BE COMPLETED INCONJUNCTION WITH THIS PHASE PROVIDED LANE ASSIGNMENTS, SIGNING, AND PAVEMENT MARKINGS ARE ADJUSTED AS ACCORDINGLY.

**PRE-PHASE IB**

UTILIZING ODOT SCD MT-95.32 FOR EACH DIRECTION OF TRAFFIC, REMOVE THE EXISTING CONCRETE MEDIAN FROM STA. 29+00 TO STA. 31+50, S.R. 17 AND INSTALL PAVEMENT FOR MAINTAINING TRAFFIC.

**PHASE I**

TRAFFIC SHALL BE MAINTAINED AS INDICATED IN THE PLANS AND FULL-DEPTH REPLACEMENT OF THE EXISTING PAVEMENT SHALL BE COMPLETED SOUTH OF THE CENTERLINE OF CONSTRUCTION OF S.R. 17. RECONSTRUCTION OF RAMP GE-1A SHALL BE COMPLETED AND BRIDGE REPAIRS COMPLETED WITHIN THE WORK AREA FOR THE PHASE. THE EXISTING CONCRETE MEDIAN SHALL BE REMOVED IN THIS PHASE, HOWEVER RECONSTRUCTED IN PHASE II. EXISTING RAMP GE-1 SHALL BE CLOSED DURING THIS PHASE AND ALL RAMP TRAFFIC DIVERTED TO RAMP GE-2. THE TUXEDUO AVENUE DETOUR SHALL BE IN EFFECT FOR THIS PHASE.

**PHASE II**

TRAFFIC SHALL BE MAINTAINED AS INDICATED IN THE PLANS AND FULL-DEPTH REPLACEMENT OF THE EXISTING PAVEMENT SHALL BE COMPLETED ON THE REMAINING PORTIONS OF S.R. 17. REMAINING BRIDGE REPAIRS WILL BE COMPLETED WITHIN THE WORK AREA FOR THE PHASE AS WELL. RECONSTRUCTED RAMP GE-1A SHALL BE OPEN TO TRAFFIC DURING THIS PHASE. THE TUXEDUO AVENUE DETOUR SHALL REMAIN IN EFFECT FOR THIS PHASE.

**ITEM 614, MAINTAINING TRAFFIC, CON'T**

**PHASE IIA**

UTILIZING ODOT SCD MT-95.32 FOR EACH DIRECTION OF TRAFFIC, RECONSTRUCT THE CONCRETE MEDIAN FROM STA. 29+00 TO STA. 31+50, S.R 17.

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, MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410,	TRAFFIC COMPACTED SURFACE,	
	TYPE A OR B	50 CU. YD.
ITEM 616,	WATER	1.0 M. GAL.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616,	WATER	15.0 M. GAL.
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**DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL**

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE (2, 3, 4, OR 5)	
(ONE-WAY OR BIDIRECTIONAL)	50 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEM(S).

**CONFLICTING PAVEMENT MARKINGS**

CONFLICTING MARKINGS ARE CONSIDERED TO BE AN MARKINGS NOT ACTIVELY IN USE, NOT BEHIND CHANNELIZING DEVICES OR PORTABLE BARRIER AND/OR COULD BE MISINTERPRETED BY THE TRAVELING PUBLIC OR CAUSE CONFUSION TO THE DRIVER AS DETERMINED BY THE ENGINEER. BEFORE PLACING WORK ZONE MARKINGS REMOVED OR COVER ALL CONFLICTING EXISTING MARKINGS VISIBLE TO THE TRAVELING PUBLIC IN ACCORDANCE WITH SECTION 614.11 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.

**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 THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 ONE-WAY	20 EACH
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ITEM 614, OBJECT MARKER, ONE-WAY	20 EACH
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PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

**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 OF TRAFFIC RESTRICTIONS TIME TABLE**

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
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RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
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> 12 HOURS	14 CALENDAR DAYS
& < 2 WEEKS	PRIOR TO CLOSURE

<= 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
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LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
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< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
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START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION
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ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**COVERING OF SIGNS**

THE CONTRACTOR WILL COVER ANY EXISTING AND/OR PROPOSED SIGN INSTALLATION WHICH IS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLANS. THE SIGNS SHALL BE COVERED IN SUCH A MANNER AS TO AVOID DAMAGING THE SIGN WHEN THE COVER IS REMOVED. THE COVER SHALL BE TOTALLY OPAQUE AND COVER THE ENTIRE SIGN FACE. THE USE OF ADHESIVE TAPE APPLIED DIRECTLY TO THE SIGN FACE IS STRICTLY PROHIBITED. THE CONTRACTOR WILL PROVIDE ALL OF THE "CLOSE" PLAQUES NECESSARY. THE OVERLAY MAY BE RIVETED TO THE SIGN. THE CONTRACTOR SHALL PROVIDE ALL OF THE PLAQUES, SIGNS, AND SIGN PANELS NECESSARY.

**DISINCENTIVE CONTRACT TABLE**

DESCRIPTION OR LOCATION OF CRITICAL WORK	COMPLETION DATE	TIME PERIOD	DISINCENTIVE \$ PER TIME PERIOD
ALL WORK EXCEPT FOR INSTALLATION OF PROPOSED LIGHT POLES AND PEDESTRIAN SIGNAL ASSEMBLIES	10/31/2023	DAY	\$900

SHEET NUM.												PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
8	10	11	12	13	14	15	16	98	99	109	126	01/S>2/04	02/IMS/04	03/IMS/04						
								2				2			632	26500	2	EACH	<b>TRAFFIC CONTROL</b>	
										20		20			632	40700	20	FT	DETECTOR LOOP	
										1		1			632	64020	1	EACH	SIGNAL CABLE, 7 CONDUCTOR, NO. 14 AWG	
										LS		LS			632	90300	LS	EACH	PEDESTAL FOUNDATION	
								0.76	0.63			1.39			646	10000	1.39	MILE	SIGNALIZATION, MISC.:RELOCATION OF PEDESTRIAN SIGNAL ASSEMBLY	
													0.23		646	10010	0.23	MILE	EDGE LINE, 4"	
								0.01	0.22						646	10100	0.23	MILE	EDGE LINE, 6"	
								0.47	0.29			0.76			646	10100	0.76	MILE	LANE LINE, 4"	
								0.06				0.06			646	10200	0.06	MILE	CENTER LINE	
								602	250			852			646	10300	852	FT	CHANNELIZING LINE, 8"	
								28	90			118			646	10400	118	FT	STOP LINE	
								286	182			468			646	10510	468	FT	CROSSWALK LINE, 12"	
								38				38			646	10600	38	FT	TRANSVERSE/DIAGONAL LINE	
								50	12			62			646	10800	62	SF	ISLAND MARKING	
								7	5			12			646	20300	12	EACH	LANE ARROW	
																			<b>STRUCTURE OVER 20 FOOT SPAN (CUY-00017-12.270)</b>	
											LS		LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	
											100		100		509	10000	100	LB	EPOXY COATED STEEL REINFORCEMENT	
											15		15		509	20001	15	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	
											19		19		510	10001	19	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	
											2		2		511	34410	2	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
											680		680		512	10050	680	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
											390		390		512	10100	390	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
											25		25		512	10600	25	FT	CONCRETE REPAIR BY EPOXY INJECTION	
											1,070		1,070		512	74000	1,070	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
											144		144		514	27702	144	EACH	FIELD PAINTING, MISC.: EXISTING VPF BASE PLATES	
											7		7		516	11901	7	FT	HORIZONTAL EXTENSION OF STRUCTURAL EXPANSION JOINT, AS PER PLAN	
											LS		LS		518	63300	LS		STRUCTURE DRAINAGE, MISC.: CLEANING OUT SCUPPERS AND BRIDGE DRAINAGE SYSTEMS	
											50		50		519	11101	50	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	
											7		7	SPECIAL	51912510	7	SY	PATCHING CONCRETE BRIDGE DECK		
											100		100		843	50000	100	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	
											300		300		847	10001	300	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY, AS PER PLAN	
											2		2		847	20000	2	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
											LS		LS		847	30000	LS		TEST SLAB	
											201		201		847	30400	201	SY	EXISTING CONCRETE OVERLAY REMOVED, 1 3/4" NOMINAL THICKNESS	
											30		30		847	50000	30	SY	HAND CHIPPING	
																			<b>MAINTENANCE OF TRAFFIC</b>	
	50											50			410	12000	50	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
		50										50			614	11110	50	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				2								2			614	12380	2	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
							LS					LS			614	12420	LS		DETOUR SIGNING	
	20											38			614	13310	38	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	
	50											50			614	13312	50	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
	20											38			614	13350	38	EACH	OBJECT MARKER, ONE WAY	
												16			614	18601	16	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	
				16								1.18			614	21100	1.18	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
												3.51			614	22100	3.51	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
												356			614	23000	356	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8"	
												116			614	24000	116	FT	WORK ZONE DOTTED LINE, CLASS I	
												38			614	25000	38	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	
												43			614	26200	43	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
												190			614	27010	190	FT	WORK ZONE CROSSWALK LINE, CLASS I, 12"	
												2			614	40051	2	EACH	BUSINESS ENTRANCE SIGN, AS PER PLAN	
												LS			615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
												139			615	25000	139	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
												16			616	10000	16	MGAL	WATER	
												760			622	41100	760	FT	PORTABLE BARRIER, UNANCHORED	
																			<b>INCIDENTALS</b>	
												LS			108	10000	LS		CPM PROGRESS SCHEDULE	
												LS			614	11000	LS		MAINTAINING TRAFFIC	
8												8			619	16011	8	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	
LS												LS			623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	
												LS			624	10000	LS		MOBILIZATION	

