## ACCESS TO PRIVATE PROPERTY

ACCESS TO DRIVES SHALL BE MAINTAINED VIA EXISTING PAVEMENT, TEMPORARY PAVEMENT, OR ITEM 410. ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A SHALL BE ITEMIZED SEPARATELY FOR AUTHORIZATION ONLY BY THE ENGINEER. IN THE EVENT THAT A DRIVE CANNOT BE MAINTAINED AND A CLOSURE IS NEEDED THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER

CLOSED WHEN WORKING IN THE AREA OF THE DRIVE. COMMERCIAL PROPERTY WITH ONLY ONE DRIVEWAY OR DRIVEWAYS WITH ONE DIRECTION TRAFFIC USE WILL BE CONSTRUCTED PART WIDTH. THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN ALTERNATE ACCESS TO THE PROPERTY. IT MAY BE REQUIRED FOR THE CONTRACTOR TO MAINTAIN ONE PASSABLE LANE WITHIN A CLOSURE IN ORDER FOR RESIDENTS TO ACCESS RESIDENCY WITH A VEHICLE.

UNLESS CALLED OUT IN THE PLANS THE CONTRACTOR WILL COORDINATE ANY CLOSURES WITH PROPERTY OWNERS AND BE RESPONSIBLE FOR ANY AND ALL PROPERTY USE AGREEMENTS FOR ALTERNATIVE ACCESS

SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR USE AS DIRECTED BY THE ENGINEER AND CARRIED TO THE GENERAL SUMMARY

ITEM 410 - TRAFFIC COMPACTED SURFACE, TYPE A 100 CUBIC YARDS

PAYMENT FOR ALL LABOR. EQUIPMENT. LAW ENFORCEMENT OFFICERS AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC UNLESS ITEMIZED SEPARATELY

## ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) P.21 OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE COMMERCIAL PROPERTY WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

> THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE SIGN ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE DISTRICT TRAFFIC ENGINEER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.) THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT. MAKE ARRANGEMENTS. WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS. TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE. WILL BE DEDUCTED FROM MONEYS DUE. OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN P.21 SIGN MONTH ASSUMING 4 PCMS SIGN(S) FOR 16 MONTH(S).

#### AGGREGATE WEDGE

WHERE THE CONTRACTOR CAN NOT FULLY MEET THE DROP OFF REQUIREMENTS AS SHOWN IN MOT-101.90, THE CONTRACTOR SHALL INSTALL AN AGGREGATE WEDGE (304 AGGREGATE) PLACED EACH NIGHT AT THE DROP OFF. THE AGGREGATE WEDGE WILL NEED TO BE INSTALLED AT THE TIME OF SUB-BASE CONSTRUCTION (BEFORE CURING) AND LEFT IN PLACE UNTIL THE CONTRACTOR IS READY TO INSTALL THE AGGREGATE BASE AND PAVEMENT. AFTER THE CURE TIME, IT CAN BE LEVELED AND USED IN PLACE.

### ITEM 614, WORK ZONE PAVEMENT MARKINGS

THE FOLLOWING QUANTITIES ARE PROVIDED TO INSTALL WORK ZONE PAVEMENT MARKINGS AT PERMANENT LOCATIONS AT THE CONCLUSION OF EACH STAGE WHEN SURFACE COURSE IS INSTALLED. PERMANENT STRIPING QUANTITIES AS QUANTIFIED ON P.116 TO P.120 SHALL BE APPLIED OVER THE TOP OF CLASS III PAVEMENT MARKINGS SPECIFIED HERE.

ITEM 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT

ITEM 614, WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT

ITEM 614, WORK ZONE CENTER LINE, CLASS III, 642 PAINT

ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT

ITEM 614, WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT

ITEM 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT

4642 FT

1256 FT

396 FT

# ITEM 614, WORK ZONE TRAFFIC SIGNAL

THE UNIT PRICE BID FOR ITEM SPECIAL "WORK ZONE TRAFFIC SIGNAL" IS TO BE UTILIZED AT THE INTERSECTION OF US 42 AND INDUSTRIAL PARKWAY TO ACCOUNT FOR ANY MATERIAL DELAYS DUE TO LEAD TIMES INSTAGING THE INSTALLATION OF THE PERMANENT SIGNALS AT THIS LOCATION.

ITEM 614, SPECIAL - WORK ZONE TRAFFIC SIGNAL

2.94 MILE

1.12 MILE

2.19 MILE

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P.12	P.13	P.14	P.14A	P.112	P.121	P.124	P.127	P.237	P.243A	01/STR/0 4	02/STR/0 4	ITEM	EXT	TOTAL	UNIT	DESCRIPTION	SHEET NO.	CALCU A(
					4					4		632	64000	4		STRAIN POLE FOUNDATION		
					103					103		632	68300	103		POWER CABLE, 3 CONDUCTOR, NO. 6 AWG		_
-					134					134		632 632	69800 70000	134		SERVICE CABLE, 3 CONDUCTOR, NO. 6 AWG POWER SERVICE		-
					2					2		632	70400	2		CONDUIT RISER, 2" DIAMETER		
					2					2		632	86150	2	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 13		_
					2					2		632	87150	2		COMBINATION STRAIN POLE, TYPE TC-81.11, DESIGN 13		
					1					1		632	90100	1		REMOVAL OF TRAFFIC SIGNAL INSTALLATION		
					1					1		632	90400	1	EACH	SIGNALIZATION, MISC.: CDMA MODEM, FURNISH ONLY	P.267	
					1					1		633	65511	1	EACH	CABINET, TYPE TS-2, AS PER PLAN	P.265	4
					1					1		633	67100	1	EACH	CABINET FOUNDATION		-
					1					1		633	67200	1 1		CONTROLLER WORK PAD		1
					1					1		633	75001	1	EACH	UNINTERRUPTIBLE POWER SUPPLY (UPS), 1000 WATT, AS PER PLAN	P.265	
					1					1		633	99000	1		CONTROLLER ITEM, MISC.: ETHERNET RADIO (UBIQUITY)	P.265	_
					1					1		633	99000		EACH	CONTROLLER ITEM, MISC.: UNMANAGED ETHERNET SWITCH	P.272	+
					30					30		809	64550	30	FT	ETHERNET CABLE, OUTDOOR-RATED		
					4					4		809	69001	4		ADVANCE RADAR DETECTION, AS PER PLAN	P.267	<b> </b>
					4					4		809	69101	4		STOP LINE RADAR DETECTION, AS PER PLAN	P.267	<b>∤ કે</b>
					T					<u>T</u>		809	69123	T	EACH	ATC CONTROLLER, AS PER PLAN	P.265	\$
																MISCELLANEOUS STRUCTURE		
								LS		LS		202	11000	LS		STRUCTURE REMOVED		် ပ
								1.0	LS	LS		202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	P.243A	
-								LS LS	LS	LS LS		503 503	11100 21300	LS LS		COFFERDAMS AND EXCAVATION BRACING UNCLASSIFIED EXCAVATION (WINGWALL FOOTING)		<b>┤                                    </b>
								3,534	2,166	3,534	2,166	509	10000	5,700		EPOXY COATED STEEL REINFORCEMENT		<b>M</b>
-								9.4	8	9.4	8	511	46012	17.4	СҮ	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING		
-								26	17	26	17	511	46510	43		CLASS QC1 CONCRETE, FOOTING		┨
				2.4				1.2		2.4	1.2	511	46610	3.6		CLASS QC1 CONCRETE, HEADWALL		<u> </u>
-								40 163	21	40 163	21	512 512	10100 33000	61 163		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)  TYPE 2 WATERPROOFING		_
								103		103		<u> </u>	33000	103	<u> </u>	TTPL 2 WATERPROOFING		-
								28 LS	LS	28 LS		516 518	13600 21230	28 LS	SF	1" PREFORMED EXPANSION JOINT FILLER POROUS BACKFILL WITH GEOTEXTILE FABRIC		
								LS	LS	LS		310	21230	LS				
			100							FO	FO	410	10001	100	CV	TRAFFIC COMPACTED SUBFACE TYPE A AS DEP DIAN	D 14A	_
?	100		100							50 50	50 50	410 ——614	10001 11110	100		TRAFFIC COMPACTED SURFACE, TYPE A, AS PER PLAN  LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	P.14A	_
	100	<u>{</u>	1			·····				1			61411300	+		WORK ZONE TRAFFIC SIGNAL	P.14A	$\widehat{\mathbb{T}}$
1		4				<u>5</u>	10			10	<del>5</del>	614	12384	15		WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	····	
		LS								LS		614	12420	LS		DETOUR SIGNING		_
5										3	2	614	12500	5	EACH	REPLACEMENT SIGN		-
50										25	25	614	12600	50		REPLACEMENT DRUM		1
80										61	19	614	13310	80		BARRIER REFLECTOR, TYPE 1, BIDIRECTIONAL		
80						0.40				61	19	614	13360	80		OBJECT MARKER, TWO WAY		_
						0.48				0.48		614	20000	0.48	MILE	WORK ZONE LANE LINE, CLASS I, 4"		
770			1.12			4.0-	4.00			1.12	0.55	614	20560	1.12	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	P.14A	1
			2.19			1.97	1.38			1 62	0.35 0.57	614 614	21000	3.35	MILE	WORK ZONE CENTER LINE, CLASS II. 642 PAINT	P.14A	-
			۷.15			9.16	3.65			1.62 9.44	3.37	614	21550 22000	2.19 12.81	MILE MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT WORK ZONE EDGE LINE, CLASS I, 4"	P.14A	<b>┤ ←</b>
			2.94							1.16	1.78	614	22360	2.94	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	P.14A	၂ တဲ့
							971			971		614	23000	971		WORK ZONE CHANNELIZING LINE, CLASS I, 8"		က
			4,642				J/1			2,945	1,697	614	23680	4,642	FT	WORK ZONE CHANNELIZING LINE, CLASS 1, 8 WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT	P.14A	12
			,			1,364	370			952	782	614	24000	1,734	FT	WORK ZONE DOTTED LINE, CLASS I		] 7
			1,256			309	114			1,256 358	65	614 614	24612 26000	1,256 423	FT FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT WORK ZONE STOP LINE, CLASS I	P.14A	<b>                                     </b>
							<b>**</b> * * * * * * * * * * * * * * * * * *											
)			396			8				314	82	614 614	26610 30000	396	FT EACH	WORK ZONE STOP LINE, CLASS III, 642 PAINT WORK ZONE ARROW, CLASS I	P.14A	-
						0				LS		615	10000	LS	LACI	ROADS FOR MAINTAINING TRAFFIC		1
						11 120 Г	1 1 / 0 /				1,978.3	615	20000	12,286.9	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		
						11,138.5	1,140.4			10,308.0	1,570.5		20000			TAVENTENT TOR MAINTAINING TRAFFIC, CEASS A		<b>」</b>
						677	3,160			3,007	830	622	41100	3,837	FT	PORTABLE BARRIER, UNANCHORED		P.10

	SHEET NUM.	PART. 01/STR/0 02/STR/0	ITEM	ITEM	GRAND UTOTAL	UNIT	ITEMS SHIFTED DESCRIPTION SEE SHEET NO.	SALCULATED ACS CHECKED JDH
		LS 6 LS LS LS	614 619 623 624	11000 16010 10000 10000	LS	MNTH	INCIDENTALS  MAINTAINING TRAFFIC  FIELD OFFICE, TYPE B  CONSTRUCTION LAYOUT STAKES AND SURVEYING  MOBILIZATION	
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