

N 58 S 4 Ο 80 4 NN S S

CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE

TIME ALL LANES MUST BE OPEN TO TRAFFIC

12:00N FRIDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM TUESDAY 12:00N MONDAY THROUGH 6:00 AM WEDNESDAY

5:00 AM TUESDAY THROUGH 12: AM WEDNESDAY

12:00N TUESDAY THROUGH 6:00 AM THURSDAY

6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY

12:00N THURSDAY THROUGH 6:00 AM MONDAY 12:00N FRIDAY THROUGH 6:00 AM MONDAY

		DISINCENTIVE						
RESTRICTED	TIME	\$ PER TIME						
TIME PERIOD	UNIT	UNIT						
06:00 - 09:00 M-F	EACH	\$10,000						
15:00 - 19:00 M-F	HOUR	φ <i>10,000</i>						

5. LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN

6. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO CONTROL SIGNS. ON ROADWAYS. THEY SHOULD BE ERECTED AT

ATION OF OSURE	SIGN DISPLAYED TO PUBLIC
ζS	<i>14 CALENDAR DAYS PRIOR TO CLOSRE</i>
'S & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSRE
RS	2 BUSINESS DAYS PRIOR TO CLOSRE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

6. 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 MARTERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC. UNLESS SEPARATELY ITEMIZED IN THE PLAN.

SEQUENCE OF CONSTRUCTION

ALTHOUGH THE DETAILED MAINTENANCE OF TRAFFIC PLANS AND TYPICAL SECTIONS ILLUSTRATE CONCURRENT EASTBOUND AND WESTBOUND CONSTRUCTION. THE CONTRACTOR HAS THE **OPTION TO CONSTRUCT BOTH BOUNDS CONCURRENTLY DURING** THE SAME CALANDER YEAR OR TO COMPLETE EACH BOUND SEPARATELY DURING SEPARATE CALENDAR YEARS. REGARDLESS OF THE SEQUENCE OF CONSTRUCTION NOTE BELOW. THE CONTRACTOR SHALL BE PERMITTED TO PERFORM EASTBOUND AND WESTBOUND WORK AS SEPARATE CONSTRUCTION OPERATIONS. I.R.-480 TRAFFIC SHALL BE MAINTAINED IN EITHER THE ORIGINAL TRAFFIC PATTERN OR THE PERMANENT TRAFFIC PATTERN BETWEEN OCTOBER 15 AND APRIL 1.

NOTE: IT IS ANTICIPATED THAT THE CONTRACTOR WILL PLACE THE FINAL SURFACE COURSE FOR BOTH BOUNDS DURING THE FINAL MOT PHASE OF THE PROJECT. IF PERFORMING EASTBOUND AND WESTBOUND WORK DURING SEPARATE CALENDAR YEARS. THE CONTRACTOR HAS THE OPTION TO APPLY THE FINAL SURFACE COURSE AND THE FINAL STRIPING TO THE CONSTRUCTED BOUND INDEPENDENT OF THE OPPOSING BOUND. THE FOLLOWING WORK ZONE STRIPING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO SUPPORT EITHER OPTION.

ITEM 614, WORK ZONE LANE LINE, CLASS I, 6",	
807 PAINT	<u>0.80</u> MILE
TEM 614, WORK ZONE EDGE LINE, CLASS I, 6",	
807 PAINT	<u>1.60</u> MILE

ANY ADDITIONAL MILLING OR TEMPORARY ASPHALT WEDGES TO TRANSITION PAVEMENT ELEVATIONS WILL BE PAID FOR UNDER THE LUMP SUM BID PRICE FOR ITEM 614. MAINTAINING TRAFFIC.

PRE-PHASE

1.REMOVE EXISTING OUTSIDE SHOULDER PAVEMENT AND CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC ALONG OUTSIDE SHOULDER OF I.R.-480 EASTBOUND AND I.R.-480 WESTBOUND FOR USE IN PHASES 1 AND 2. MAINTAIN ONE EXISTING LANE IN EACH DIRECTION USING SHORT TERM LANE CLOSURES IN ACCORDANCE WITH SCD MT-95.30 AND THE TIMES AS LISTED IN THE ITEM 614, MAINTAINING TRAFFIC NOTE, SHEET 15.

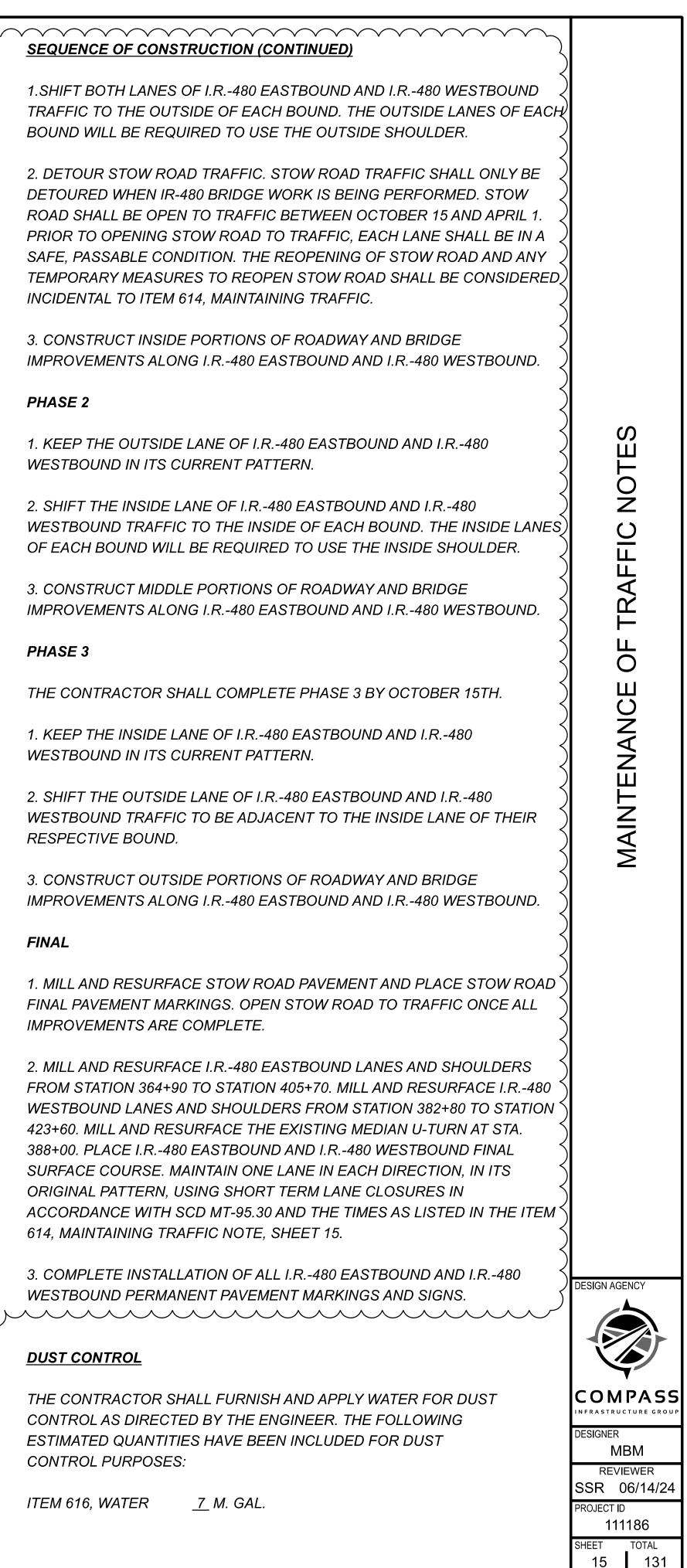
2. REMOVE EXISTING INSIDE SHOULDER PAVEMENT AND CONSTRUCT PAVEMENT FOR MAINTAINING TRAFFIC ALONG INSIDE SHOULDER OF I.R.-480 EASTBOUND AND I.R.-480 WESTBOUND FOR USE IN PHASES 2 AND 3. MAINTAIN ONE EXISTING LANE IN EACH DIRECTION USING SHORT TERM LANE CLOSURES IN ACCORDANCE WITH SCD MT-95.30 AND THE TIMES AS LISTED IN THE ITEM 614. MAINTAINING TRAFFIC NOTE, SHEET 15.

PHASE 1

THE CONTRACTOR SHALL NOT IMPLEMENT PHASE 1 PRIOR TO APRIL 1ST.

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FINAL



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 NO.	COUNTY-ROUTE-SECTION	DIRECTION
WZ-26214	SUM-480-07.45	EB
WZ-26214	SUM-480-07.45	WB

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.

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.

WORK ZONE SPEED ZONES (WZSZS) (CONTINUED)

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.

ORIGINAL		OSITIVE CTION	WITHOUT POSITIVE PROTECTION					
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 36 SIGN MNTH (ASSUMING 2 DSL SIGN ASSEMBLYIES FOR 18 MONTHS)

EXTRA ADVANCE WARNING SIGNS

AN ADVANCE WARNING SIGN GROUP CONSISTS OF TWO W20-1 (ROAD WORK AHEAD) SIGNS, TWO W20-5 (RIGHT/LEFT LANE CLOSED AHEAD) SIGNS WITH W16-3A DISTANCE PLATES. AND TWO W3-H7 (WATCH FOR STOPPED TRAFFIC) SIGNS AND REQUIRED FLASHING LIGHTS.

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING EXTRA ADVANCE WARNING SIGN GROUPS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614. MAINTAINING TRAFFIC.

TRENCH FOR WIDENING (SPEED LIMIT > 45 MPH)

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. AS SHOWN ON MT-101.90. PLACEMENT OF PROPOSED BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND THE EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE BASE WIDENING ON THIS PROJECT WILL BE COMPLETED TO A DEPTH OF 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF THE WORK DAY. NO TRENCH WILL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS. THE TRENCH FOR THE UNCOMPLETED BASE WIDENING WILL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

TABLE 1

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

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED. ERECTED. AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL **BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY** CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS. SUCH AS DURING WINTER SHUT-DOWNS.

(THE SIGNS ON THE MAINLINE SHALL BE DUAL MOUNTED UNLESS NOT PHYSICALLY POSSIBLE. THE FIRST SIGN SHALL BE PLACED BETWEEN THE ROAD WORK AHEAD (W20-1) SIGN AND THE NEXT SIGN IN THE SEQUENCE. SIGNS SHALL BE ERECTED ON EACH ENTRANCE RAMP AND EVERY 2 MILES THROUGH THE CONSTRUCTION WORK LIMITS. SIGNS ON THE MAINLINE SHALL BE R11-H5A-48. SIGNS USED ON THE RAMPS SHALL BE R11-H5A-24. R11-H5A-24 SIGNS MAY BE USED IN THE MEDIAN IN LIEU OF R11-H5A-48 SIGNS IF IT IS NOT PHYSICALLY POSSIBLE TO PROVIDE R11-H5A-48 SIGNS IN THE MEDIAN.)

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED. BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS. INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER. IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING. ERECTING. MAINTAINING. COVERING DURING SUSPENSION OF WORK. AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 8 EACH WORK ZONE INCREASED PENALTIES SIGNS SHALL BE PLACED AT LOCATIONS SHOWN IN THE PLANS.

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.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT. THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED. THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR. EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614. MAINTAINING TRAFFIC.

ITEM 614. WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)

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.



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		1,453		442	22100	1,453	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TY
		278		442	22300	278	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 M
		36		609	24510	36	FT	CURB, TYPE 4-C
		14,199		618	40100	14,199	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)
		2,846		SPECIAL	69012060	2,846	SY	PAVEMENT OVERLAY FABRIC COMPOSITE
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		68		621	00100	68	EACH	RPM
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		8		626	00102	8	EACH	BARRIER REFLECTOR, TYPE 1, (1-WAY)
		24	8	626	00110	32	EACH	BARRIER REFLECTOR, TYPE 2, (1-WAY)
		21		630	02100	21	FT	GROUND MOUNTED SUPPORT, NO. 2 POST
		50		630	03100	50	FT	GROUND MOUNTED SUPPORT, NO. 3 POST
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		2		630	80100	22	SF _	SIGN, FLAT SHEET, 730.20
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	$\overline{}$			630	84900		EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOS
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	0 1 2		0.06		00300	0.06	MILE	CENTER LINE, TYPE 1
	0.12			646	10010	0.12	MILE	EDGE LINE, 6"
	0.06	2.00		646	10110	0.06	MILE	LANE LINE, 6"
		2.96		807	14010	2.96	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARK
		1.48		807	14110	1.48	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARK
		4.44		850	10010	4.44	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING,
								STRUCTURE OVER
								STRUCTURE OVER
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	600			614	11110	600	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR
	320			614	11630	320	FT	INCREASED BARRIER DELINEATION
	8			614	12380	8	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZAR
	LS			614	12420	LS		DETOUR SIGNING
	8			614	12484	8	EACH	WORK ZONE INCREASED PENALTIES SIGN
	100			614	12800	100	EACH	WORK ZONE RAISED PAVEMENT MARKER
	3,246			614	12801	3,246	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLA
	244			614	13310	244	EACH	BARRIER REFLECTOR, TYPE 1, (1-WAY)
	50			614	13312	50	EACH	BARRIER REFLECTOR, TYPE 2, (1-WAY)
	344			614	13350	344	EACH	OBJECT MARKER, ONE WAY
	100,000			614	18000	100,000	EACH	MAINTAINING TRAFFIC, MISC.:SAFETY REPAIRS
	12			614	18600	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN
	36			614	18601	36	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLA
((1.45			614	20056	(1.45	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT
T	(8.83 /			614	22056	(8.83)	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT
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1	0.12			614	22210	0.12	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I
1	13,042			614	23110	13,042	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 P
\uparrow	243			614	23410	243	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.0
\dagger	1,655			614	28200	1,655	FT	WORK ZONE GORE MARKING, CLASS II, 642 PAINT
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╉	8,393			615	20001	8,393	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS
╉	7			616	10000	7	MGAL	WATER
╀	4,920			622	41100	4,920	FT	PORTABLE BARRIER, UNANCHORED
╀						· · ·	FT	
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		SHEET TOTAL 42 131

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REF. NO.	SHEET NO.	LOCATION	STATION FROM TO	SIDE	CODE	SIZE (INCHES)	621 RPM, ONE-WAY (WHITE)	HAISED PAVEMENT MARKER CHANOVED	H BARRIER REFLECTOR, TYPE 1 20 10 10 10 10 10 10 10 10 10 10 10 10 10	H BARRIER REFLECTOR, TYPE 2 20 20 20 20 20 20 20 20 20 20 20 20 20	H GROUND MOUNTED SUPPORT, 90 NO. 2 POST	H GROUND MOUNTED SUPPORT, 90 NO. 3 POST	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, 00 S4X7.7	Ч SIGN, FLAT SHEET, 730.20 00	A B B B B C C C C C C C C C C C C C C C	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	930 REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	H REMOVAL OF GROUND DISPOSAL DISPOSAL	REMOVAL OF GROUNDAMOUNTED STRUCTURAL BEAMCSUPPORT AND DISPOSAL	642 EDGE LINE, 4", TYPE 1 (WHITE)	CENTER LINE, TYPE 1	646 EDGE LINE, 6" (WHITE)	646 (MOTTEY, 0, (AETTOM)	646 LANE LINE, 6"	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" 20 (WHITE)	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	GROOVING FOR 6" RECESSED PAVEMENT MARKING, 058 (ASPHALT)	
							EACH	EACH	EACH	EACH			FI	<u> </u>	S EACH S	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	MILE		MILE	MILE		
ELW-1 ELY-1 LL-1	84 84 84	IR-480 EB IR-480 EB IR-480 EB	364+90 394+02 364+90 394+02 364+90 394+02	RT RT RT			24	24																	0.55	0.55	0.55	0.55 0.55 0.55	-
ELW-2	84	IR-480 WB	382+80 393+43	LT											$\left\{ \right\}$										0.20			0.20	-
ELY-2 LL-2	84 84	IR-480 WB IR-480 WB	382+80 393+43 382+80 393+43	LT LT			9	9																		0.20	0.20	0.20 0.20	TIES
ELW-3 ELY-3	84 84	IR-480 EB IR-480 EB	394+02395+73394+02395+73	RT RT											$\langle \rangle$							0.03	0.03						
LL-3	84	IR-480 EB	<u>394+02</u> <u>395+73</u>	RT			1	1							$\left\{ \right\}$								0.00	0.03					IAI
ELW-4 ELY-4 LL-4	84 84 84	IR-480 EB IR-480 EB IR-480 EB	395+73 405+70 395+73 405+70 395+73 405+70 395+73 405+70	RT RT RT			9	9																	0.19	0.19	0.19	0.19 0.19 0.19	EDQ
	84			LT											$\langle \rangle$							0.02							IAT
ELW-5 ELY-5	84	IR-480 EB IR-480 EB	393+43 395+13 393+43 395+13	LT											$\langle \rangle$							0.03	0.03						
<i>LL-5</i> <i>ELW-6</i>	84 84	IR-480 EB IR-480 EB	393+43 395+13 395+13 423+60	LT LT			1	1																0.03	0.54	0.54		0.54	IL EST
ELY-6 LL-6	84 84	IR-480 EB IR-480 EB	395+13423+60395+13423+60	LT LT			24	24							\sum											0.54	0.54	0.54 0.54	IRO
BRG-1 BRB-1	85 85	IR-480 EB IR-480 EB	389+02 394+27 394+27 395+75	RT RT					2	6																			
BRG-2	85	IR-480 EB	395+75 399+23	RT						4					$\left\{ \right\}$														
BRG-3 BRB-2	85 85	IR-480 EB IR-480 EB	392+55 394+03 394+03 395+52	RT RT					2	2																			RAFF
BRB-3 BRG-4	85 85	IR-480 WB IR-480 WB	393+64395+12395+12398+36	LT LT					2	Λ																			
BRG-5 BRB-4	85 85 85	IR-480 WB IR-480 WB	<u>389+68</u> <u>393+41</u> <u>393+41</u> <u>394+89</u>	LT LT LT					2	5																			-
BRG-6	85	IR-480 WB	394+89 397+64	LT						3					\sum														-
R-1	85	IR-480 WB	393+82	LT		24 x 72						25.0	07.0		$\left\{ \begin{array}{c} \\ \end{array} \right\}$		1	2	2										-
R-2 R-3	85 85	IR-480 EB IR-480 EB	393+94 394+00	RT RT		42 x 90							37.8			1	1	1	2										-
S-1 R-4	85 85	IR-480 EB IR-480 EB	394+00 394+25	RT RT	I-H25b	12 x 12					10.5			1		2		1											-
ыр. <i>R-5</i> 10 <i>R-6</i>	85 85	IR-480 WB IR-480 WB	394+92 395+16	LT LT											$\langle \rangle$	2		1											-
0001 981111 981111 R-7	85	IR-480 WB	395+16	LT	I-H25b	12 x 12					10.5	25.0		1			1												-
neets	85	IR-480 EB	395+30	RT		24 x 72						25.0			$\left \right\rangle$														
BRG-7 BRG-8	87 87	STOW RD. STOW RD.	18+50 21+50 18+44 21+31	LT RT						4 4																			DESIGN AGENCY
00-ELW-7	87 87	STOW RD. STOW RD.	18+50 21+50 18+50 21+50	LT RT																0.06 0.06									
CL-1	87	STOW RD.	18+50 21+50	CL											$\langle \rangle$						0.06								COMPAS INFRASTRUCTURE GR
M-480\1															\mathbf{k}								_						– DESIGNER – KNK
013-SU																								<u> </u>					REVIEWER SSR 06/14/
jects/10			TOTALS				68	68	8	32	21.0	50.0	38	2		6	3	8	2	0.12	0.06	0.06	0.06	0.06	1.48	1.48	1.48	4.44	PROJECT ID 111186
Prc		TOTALS CA	ARRIED TO GENERA		ΔRY		68	68	8	32	21	50	38	2		6	2	g		0.12	0.06	_ I).12	0.06		96	1.48	4.44	SHEET TOTAL 83 132

SUM-480-07.45 L/R