

I. GENERAL

This project involves the installation of a temporary traffic signal for Stage 2 MOT at the intersection of MD 144 (Frederick Road) and I-695 NB Ramps in Baltimore county. The temporary traffic shall utilize span wire attached to temporary wood poles.

II. INTERSECTION OPERATION

- The existing base mounted controller cabinet will be utilized at this location. This intersection will continue to operate in a fully actuated mode using 4 NEMA phases. Eastbound and Westbound MD 144 (Frederick Road) operates concurrently, while the side street movement operates in a Split Phase.

NOTES

- For final pavement markings, refer to MOT and/or pavement marking plans, as applicable; other than those detailed on the plan. All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all vehicular detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- The contractor shall contact the SHA Signal Shop at (410)-787-7650 at least 72 hours prior to starting construction for this phase.

CONTACTS

DISTRICT FOUR

MS. ERIN KUHN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-229-2381
MR. DONALD SCHAEFER
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-229-2421
MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-229-2361
MR. MICHAEL PASQUARIELLO
UTILITY ENGINEER
410-229-2341

OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630
MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
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410-787-7630
MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670
MS. DARLENE EIDE
SUPPLY OFFICER IV
(SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST

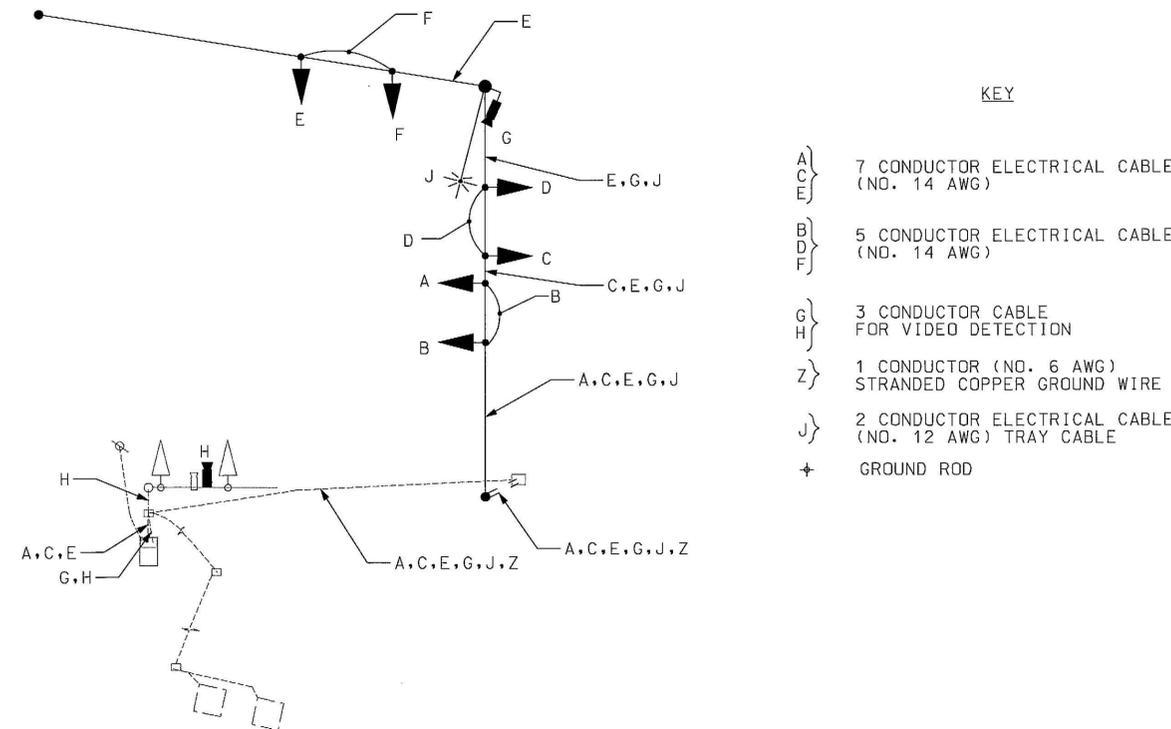
A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO. / CAT CODE	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	VIDEO DETECTION INTERFACE PANEL
973023	45.5	SF	SHEET ALUMINUM SIGNS CONSISTING OF:
	1	EA	R3-1 (30"X30") SPAN WIRE MOUNT
	1	EA	R3-2 (30"X30") SPAN WIRE MOUNT
	1	EA	R3-6 (L) (30"X36") SPAN WIRE MOUNT
	1	EA	D-3(1) (VARX16") SPAN WIRE MOUNT
	1	EA	M95-1 (MOD) (84"X24") SPAN WIRE MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO. / CAT CODE	QUANTITY	UNITS	DESCRIPTION
114245	75	LF	24 IN WHITE REMOVEABLE PAVEMENT LINE MARKINGS
203030	3	CY	TEST PIT EXCAVATION
800000	1	LS	REMOVE AND DISPOSE EXISTING SIGNAL EQUIPMENT
800000	2	EA	40 FT CLASS II WOOD POLE
800000	4	EA	BACK GUY ANCHOR ASSEMBLY
800000	75	LF	3 WIRE, 1-CONDUCTOR NO. 4 AWG
801004	3	CY	CONCRETE FOR SIGNAL FOUNDATION
802051	200	LF	NO. 6 AWG, STRANDED BARE COPPER GROUND WIRE
805050	2	EA	3 IN WEATHER HEAD
805135	20	LF	3 IN PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED
813015	45.5	SF	INSTALL OVERHEAD SIGN
816001	2	EA	IP-BASED VIDEO DETECTION CAMERA AND CABLES
831010	1	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
833060	40	LF	3 IN PVC SCHEDULE 80 RISERS
860284	19	EA	12 IN. LED SIGNAL HEAD SECTION.
861107	80	LF	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG.
861108	675	LF	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG.
866104	1	EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
867103	1	EA	12IN. X 30 FT. STRAIN POLE
869101	210	LF	1/4 IN TETHER WIRE
869102	210	LF	3/8 IN SPAN WIRE

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	
PHASE 2 AND 6	R	R	R	R	R	R	R	R	△
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	△
PHASE 3	G	G	G	G	R	R	G	G	△
3 CHANGE	R	R	R	R	R	R	Y	Y	△
PHASE 4	R	R	R	R	G	R	R	R	△
4 CHANGE	R	R	R	R	Y	R	R	R	△
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	△

MOT STAGE 2

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 144 (FREDERICK RD) AT I-695 NB RAMPSWOODLAWN AVE
INTERCHANGE RECONSTRUCTION

GENERAL INFORMATION SHEET

SCALE	NTS	DATE	SEPTEMBER 2010	CONTRACT NO.	BA2725380
DESIGNED BY	J. PALADUGU	COUNTY	BALTIMORE		
DRAWN BY	J. PALADUGU	LOGMILE	003144004.14		
CHECKED BY	K. FINIKER	T.I.M.S. NO.			
F.A.P. NO.	SEE TITLE SHEET	TOD NO.			
TS NO.	3901B	DRAWING NO.	pSG OF N004	SHEET NO.	191 OF 235

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