

I. GENERAL

PROJECT DESCRIPTION

This project involves the modification of the existing traffic signal at the intersection of MD 223 (Woodyard Road) at Rosaryville Road during interim conditions. This stage involves the installation of video detection for the existing signal and construction of the Phase 1C signal.

II. INTERSECTION OPERATION

- The existing base-mounted signal cabinet and controller will be used during this phase. The intersection will operate in a fully-actuated mode using 4 NEMA phases. Video detection shall be placed into operation for Phase 1A.

NOTES

- For pavement markings, refer to the 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 traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- SHA forces will provide the video detection equipment and do all internal wiring of the controller cabinet.
- 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 interconnect, vehicular, pedestrian 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

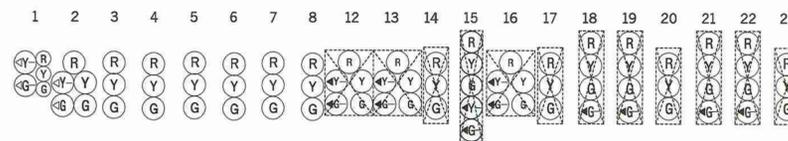
<b>DISTRICT</b> MS. FELECIA MURPHY ASSISTANT DISTRICT ENGINEER - TRAFFIC 301-513-7358	<b>OFFICE OF TRAFFIC AND SAFETY</b> MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. VICTOR GRAFTON ASSISTANT DISTRICT ENGINEER - UTILITIES 301-513-7350	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS 410-787-7630
MR. KEVIN NOWAK & MR. DUANE BERNARD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION 301-513-7336	MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS 410-787-7650
MR. VERNON STINNETT ASSISTANT DISTRICT ENGINEER - MAINTENANCE 301-513-7304	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS 410-787-7670
	<del>MS. DARLENE EIDE</del> MR. MIKE STOCKER [2] SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE) 410-787-7668

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.			
CATEGORY CODE	DESCRIPTION	UNITS	QUANTITY
900000	CONTROLLER ASC II WITH TELEMTRY AND RACK MOUNTED AMPLIFIERS, POLE MOUNTED (SIZE 5) CABINET	EA	1
900000	CONTROLLER ASC II WITH TELEMTRY AND RACK MOUNTED AMPLIFIERS, BASE MOUNTED (SIZE 6) CABINET	EA	1
900000	VIDEO DETECTION ACCESS POINT	EA	1
900000	VIDEO DETECTION INTERFACE PANEL AND CABLES	EA	1
973023	SHEET ALUMINUM SIGNS CONSISTING OF: R3-5(L) (30" X 36")	SF	7.5
		EA	1
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.			
CATEGORY CODE	DESCRIPTION	UNITS	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	LF	40
203030	TEST PIT EXCAVATION	CY	3
800000	REMOVE AND DISPOSE MATERIALS AND EQUIPMENT	LS	1
800000	40 FOOT CLASS II WOOD POLE	EA	3
800000	BACKGUY ANCHOR ASSEMBLY	EA	4
800000	RELOCATE EXISTING SIGN	SF	16
800000	PULL BACK AND REROUTE EXISTING CABLE	LF	310 [2]
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	3
802570	1 CONDUCTOR #2/0 AWG CABLE	LF	90
805050	3 IN. WEATHER HEAD	EA	3
805115	3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED	LF	60 [2]
805125	2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED	LF	40
805135	3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED	LF	50
805140	4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED	LF	450
807500	EMBEDDED METER SERVICE PEDESTAL	EA	1
810022	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN	LF	100
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	3-4 [2]
813015	INSTALL OVERHEAD SIGN	SF	7.5
816001	VIDEO DETECTION CAMERA	EA	5
818036	STEEL POLE WITH A SINGLE 50 FT. MAST ARM	EA	1
831010	250 WATT HPS LUMINAIRE	EA	1
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	90-150
833060	3 IN. SCHEDULE 80 PVC CONDUIT, RISER	LF	90 [2]
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FT. LENGTH	EA	8-9
860265	RELOCATE EXISTING TRAFFIC SIGNAL HEAD	EA	1
860284	12 IN. LED SIGNAL HEAD SECTION	EA	48
861107	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG.	LF	70
861108	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG.	LF	1300
861116	ELECTRICAL CABLE - 2 CONDUCTOR NO. 12 AWG.	LF	390
866101	10 FT. LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
869101	STEEL SPAN WIRE - 1/4 INCH	LF	300
869102	STEEL SPAN WIRE - 3/8 INCH	LF	300
871201	INSTALL CONTROLLER CABINET POLE MOUNTED	EA	1
871202	INSTALL CONTROLLER CABINET BASE MOUNTED	EA	1



PHASE CHART

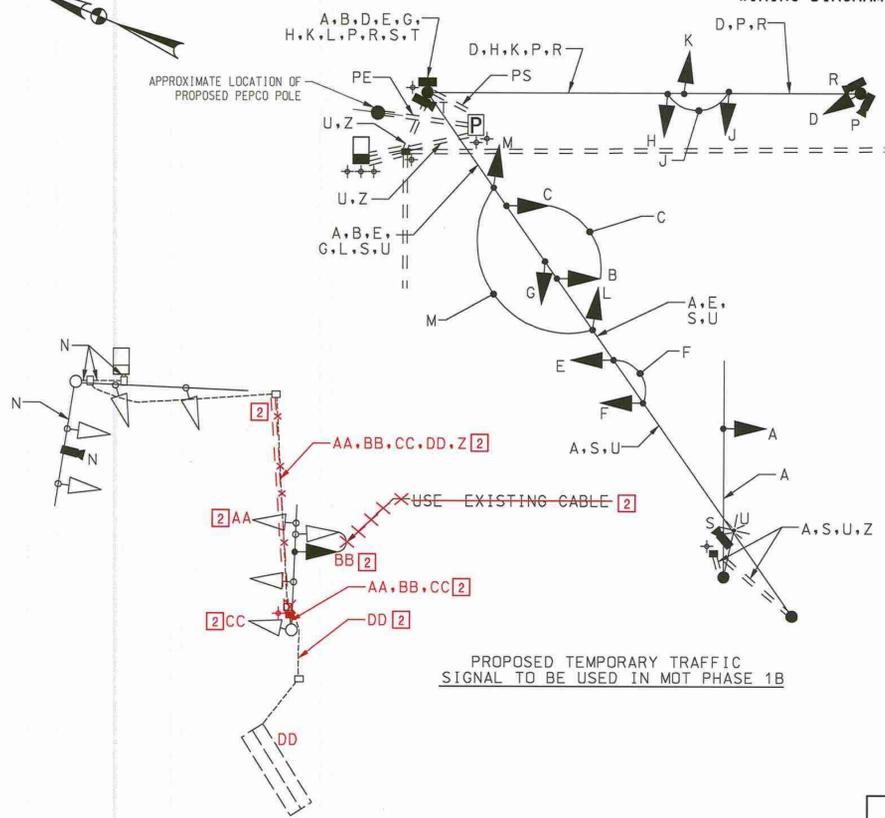


PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R																
1 AND 6 CHANGE	←YG	←YG	G	R	R	R	R	R																
PHASE 2 AND 6	G	G	G	G	G	G	R	R																
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R																
PHASE 4	R	R	R	R	R	R	G	G																
4 CHANGE	R	R	R	R	R	R	Y	Y																
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FL/R	FL/R																

NOTE:  
EXISTING TRAFFIC SIGNAL PHASING TO BE USED IN MOT PHASE 1A



WIRING DIAGRAM



EXISTING SIGNAL TO BE USED IN MOT PHASE 1A

- KEY**
- A, B, D, E, G, H, K, L, P, R, S, T } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
  - C, F, J, M } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
  - U } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
  - N, P, R, S, T } VIDEO DETECTION CAMREA CABLE
  - Z } 1 CONDUCTOR (NO. 6 AWG) STRANDED BARE COPPER GROUND WIRE
  - PE } CABLE - 3 WIRES, 1 CONDUCTOR, 2/0 AWG, TYPE USE
  - PS } 3 WIRES, 1 CONDUCTOR NO. 8 AWG.
  - [2] AA, BB, CC } RELOCATED SIGNAL CABLE
  - [2] DD } RELOCATED LOOP LEAD-IN CABLE
  - + } GROUND ROD

NOTE: CABLES A, B, E, AND U SHALL BE INSTALLED WITH 60 FT OF ADDITIONAL SLACK

MOT PHASE 1B

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 223 (WOODYARD ROAD) AT ROSARYVILLE ROAD  
INTERSECTION IMPROVEMENTS  
ROSARYVILLE, MARYLAND

GENERAL INFORMATION SHEET

SCALE	NOT TO SCALE	DATE	APRIL 2010	CONTRACT NO.	PG62295176
DESIGNED BY	S. SMITH	COUNTY	PRINCE GEORGE'S		
DRAWN BY	S. SMITH	LOGMILE	16022310.24		
CHECKED BY	J. WEAVER	T.I.M.S. NO.	J080		
F.A.P. NO.	SEE TITLE SHEET	TOD NO.			
TS NO.	1530C	DRAWING NO.	pSG OF N001B	SHEET NO.	70 OF 93

**SABRA, WANG & ASSOCIATES, INC.**  
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