

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Traffic Control Beacon with street lighting at the intersection of MD 33 (St. Michael's Rd) and MD 370 (Unionville Rd)/ Old Bloomfield Rd in Talbot County. MD 33 (St. Michael's Rd) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA flashing mode with the MD 33 (St. Michael's Rd) approaches flashing "YELLOW". The MD 370 (Unionville Rd) / Old Bloomfield Rd approaches shall flash "RED".
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

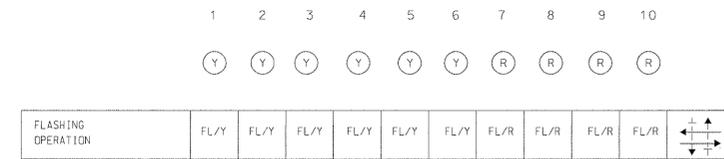
- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer (Dave Swartz) at (410) 787-7650 seventy-two hours in advance of intended work.
- 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.

EQUIPMENT LIST (CONT.)

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

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2001	Class 2 Excavation. (for sidewalk removal)	2 C.Y.
2002	Test Pit Excavation	5 C.Y.
6004	4" concrete sidewalk.	135 S.F.
8006	Cut, clean, galvanize and cap traffic signal structure.	2 EA
8011	Furnish and install 12" vehicular traffic signal head section	10 EA
8013	Furnish and install 15' bracket arm for traffic signal structure.	2 EA
8014	Furnish and install 250 watt HPS Luminaire with photocell.	2 EA
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8021	Furnish and install 27' mast arm pole and 38' mast arm.	2 EA
8021	Furnish and install 27' mast arm pole and 38' (cut to 30') mast arm.	1 EA
8022	Furnish and install 27' mast arm pole and 50' (cut to 42') mast arm.	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	50 L.F.
8052	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	210 L.F.
8053	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	30 L.F.
8057	Furnish and install concrete for signal foundation.	14 C.Y.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	420 L.F.
8072	Furnish and install electrical handhole.	4 EA
8075	Install overhead sign.	110 S.F.
8080	Furnish and install ground rod - 3/4" x 10'.	5 EA
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	140 L.F.
8085	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	945 L.F.
8086	Furnish and install tray cable - 2 conductor (No. 12 AWG).	270 L.F.
8093	Install controller and cabinet base mount.	1 EA
Neg.	Remove ground mounted sign.	1 EA

PHASE CHART

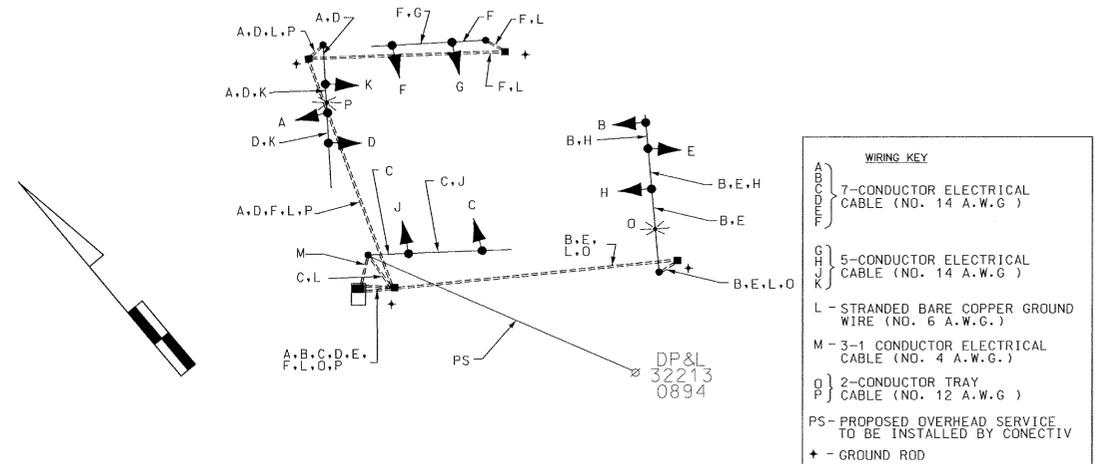


EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9081	Eight-phase, full-traffic actuated, solid state digital controller housed in a NEMA size "6" - base mounted cabinet.	1 EA
9089	Sheet aluminum signs to consist of:	46 SF
	GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-1 "NORTH"(30"x15") M1-5 "MD 370"(48"x36") M6-1 "left arrow"(30"x24")	1 EA
	GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-4 "WEST"(24"x12") M1-5 "MD 33"(24"x24") M6-1 "right arrow"(21"x15")	1 EA
	GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-2 "EAST"(30"x15") M1-5 "MD 33"(36"x36") M6-1 "left arrow"(30"x24")	1 EA
9090	Sheet aluminum signs to consist of: (Blue or Green)	64 SF
	D3-2 "St. Michael's RD" (variable x 16") mast arm mounted.	2 EA
	D3-2 "(arrow) Unionville RD / Old Bloomfield RD (arrow)" (variable x 32") mast arm mounted.	1 EA
	D3-2 "(arrow) Old Bloomfield RD / Unionville RD (arrow)" (variable x 32") mast arm mounted.	1 EA

WIRING DIAGRAM



The contact persons for District #2 are as follows:

Mr. Robert Kiel  
Assistant District Engineer - Traffic  
Phone: (410) 810-3240

Mr. Terry Wright  
Assistant District Engineer - Maintenance  
Phone: (410) 810-3250

Mr. Barry Clothier  
Assistant District Engineer - Utility  
Phone: (410) 810-3060

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

The power company representative is:

Shirley Coleman  
Connectiv Power  
P.O. Box 159  
Centreville, MD 21617



REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 33 (ST. MICHAEL'S ROAD)  
@ MD 370 (UNIONVILLE ROAD)

DRAWN BY: D. A. NIES	F.A.P. NO.	TS NO. 4172	SHEET NO. 2 OF 2
CHECKED BY:	S.H.A. NO. 1422151/851	T.J.M.S. NO. E931	
SCALE: 1" = 20'	COUNTY: TALBOT		
DATE: 3-26-02	LOG MILE: 20003320.93		