Project Description

This project involves the widening of the west leg of the intersection of MD Bus. 3 and Green Branch La. in Anne Arundel county. MD Bus. 3 is assumed to run in a North-South direction.

Controller Operation

The existing eight-phase fully actuated NEMA controller will be used. The controller will operate as a six phase semi actuated controller with pedestrian phases running concurently with Northboumd and Southbound MD Bus. 3 and a pushbutton actuated pedestrian phase will run concurrently with the Westbound Green Branch La. movement.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS

MR. PAUL ARMSTRONG
DISTRICT ENGINEER
410-841-1001

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-841-1005

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-841-1002

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

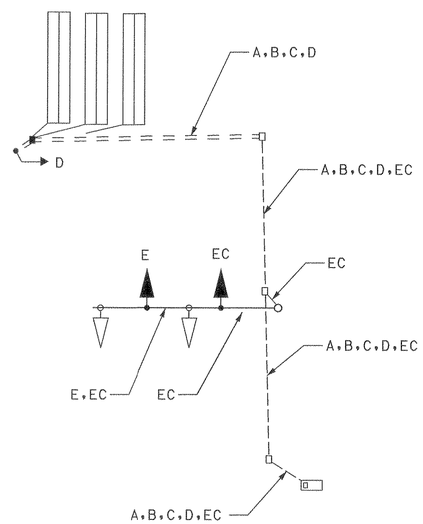
MR. DAVE SCHWARTZ
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5003	125 LF	12 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5004	35 LF	24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	8 EACH	HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTER
5006	4 EACH	HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
8001	1 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	1 EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE (ANY SIZE)
8021	360 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	20 LF	FURNISH AND INSTALL 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8024	10 LF	FURNISH AND INSTALL 2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8029	70 LF	FURNISH AND INSTALL 3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8033	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	1 EA	FURNISH AND INSTALL 3/4" X 10' GROUND ROD
8040	1360 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8041	670 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	30 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8048	10 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
8060	L.S.	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT
----	1 EA.	FURNISH AND INSTALL 12" ONE-WAY, TWO-SECTION (DW,WK) PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
----	1 EA.	FURNISH AND INSTALL 12" ONE-WAY, FOUR-SECTION (R,Y,G,GA) TRAFFIC SIGNAL HEAD - MAST ARM MOUNT
----	1 EA.	FURNISH AND INSTALL 12" ONE-WAY, TWO-SECTION (DW,WK) PEDESTRIAN SIGNAL HEAD - PEDESTAL MOUNT
----	1 EA	FURNISH AND INSTALL R3-5R SIGN (30" X 36") - MAST ARM MOUNT
----	1 EA	RELOCATE EXISTING OVERHEAD SIGN
8043	230 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 AWG)

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11,14-16	12,13
Phase 1 & 5	◁G-R	◁G-R	R	◁G-R	◁G-R	R	R	R	R	R	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6										DW	DW
Phase 1 & 6	◁G-G	◁G-G	G	R	R	R	R	R	R	R	DW	DW
1 & 6 Change	◁Y-G	◁Y-G	G	R	R	R	R	R	R	R	DW	DW
Phase 2 & 5	R	R	R	◁G-G	◁G-G	G	R	R	R	R	DW	DW
2 & 5 Change	R	R	R	◁Y-G	◁Y-G	G	R	R	R	R	DW	DW
Phase 2 & 6 Ped	G	G	G	G	G	G	R	R	R	R	WK	DW
2 & 6 Ped Clear	G	G	G	G	G	G	R	R	R	R	FL/DW	DW
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
Phase 3	R	R	R	R	R	R	R	R	◁G-G	G	DW	DW
3 Change	R	R	R	R	R	R	R	R	Y	Y	DW	DW
Phase 3 alt.	R	R	R	R	R	R	R	R	◁G-G	G	WK	DW
Phase Ped Clr.	R	R	R	R	R	R	R	R	◁G-G	G	FL/DW	DW
3 Change	R	R	R	R	R	R	R	R	Y	Y	DW	DW
Phase 4	R	R	R	R	R	R	◁G-G	G	R	R	DW	DW
4 Change	R	R	R	R	R	R	Y	Y	R	R	DW	DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK



A-C	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
D	3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
LW	LOOP WIRE (NO. 14 A.W.G.)
EC	EXISTING CABLE

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
GENERAL INFORMATION SHEET
MD BUS. 3 AND GREENBRANCH ROAD

DRAWN BY: T.M.Z	F.A.P. NO.		TS NO. 3383B	SHEET NO.
CHECKED BY: K.W.S 11/99	S.H.A. NO.			
SCALE: NONE	COUNTY:	ANNE ARUNDEL	T.I.M.S. NO. D620	2 OF 2
DATE: 10-25-99	LOG MILE:	02B00300.33		