PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL. AT THE INTERSECTION OF US 1 AND SILVER SPRING ROAD IN BALTIMORE COUNTY. THE MODIFICATION INVOLVES CHANGING THE EXISTING NORTHBOUND E/P LEFT TO AN EXCLUSIVE LEFT TURN PHASE. THE MODIFICATION ALSO INVOLVES ADDING INTERSECTION LIGHTING AND REPLACING THE EXISTING SIGNAL HEADS WITH BLACK FACE SIGNAL HEADS.

US 1 IS ASSUMMED TO RUN IN A NORTH-SOUTH DIRECTION

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE FULL-TRAFFIC ACTUATED MODE WITH EXCLUSIVE LEFT TURN MOVEMENTS FOR US 1. THE SILVER SPRING ROAD MOVEMENTS OPERATE IN SPLIT PHASE MODE WITH A RIGHT TURN OVERLAP PHASE FOR WESTBOUND SILVER SPRING ROAD.

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY		DESCRIPTION
9004	63	SF	SHEET ALUMINUM SIGNS CONSISTING OF:
	2	EA	36" X 75" GUIDE SHIELD ASSEMLIES
	2	EA	24" X 51" GUIDE SHIELD ASSEMLIES
	1	EA	24" X 30" R10-10(L)
	4	EA	9" X 12" R10-4(1)

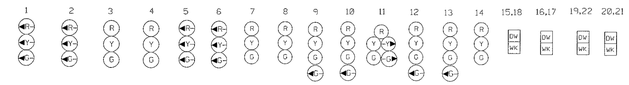
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5002	180 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
6001	1 EA	FURNISH AND INSTALL DEPRESSED CURB AND GUTTER
8000	300 LF	TO BE NEGOTIATED - FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO 12 AWG) TRAY CABLE
8014	16 EA	FURNISH AND INSTALL 12 INCH PEDESTRIAN SIGNAL HEAD SECTION
8015	48 EA	FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8028	1 EA	REMOVE AND DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8050	58 SF	INSTALL GROUND MOUNTED SIGN
8051	5 SF	INSTALL OVERHEAD SIGN
8062	200 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO 14 AWG)
8063	400 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO 14 AWG)
8081	1 EA	NEG - APPROVED - FURNISH AND INSTALL 15 FOOT LIGHTING ARM ON EXISTING STRUCTURE
8083	1 EA	NEG - APPROVED - FURNISH AND INSTALL 250 W HPSV LUMINAIRE

C. MATERIAL TO BE REMOVED AND RETURNED TO SHA.

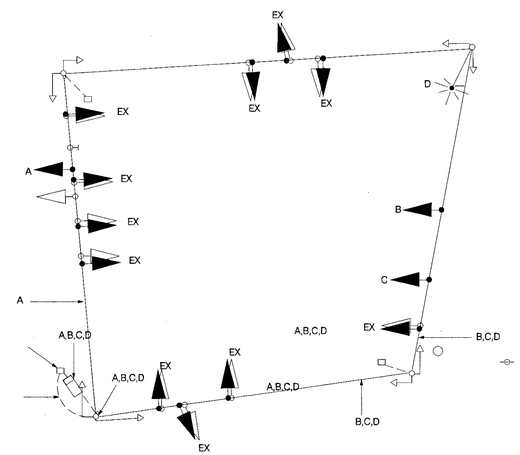
ALL REMOVED EQUIPMENT ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15,18	16,17	19,22	20,21
Phase 1 & 5	◄G-	◄G-	R	R	◄G-	◄G-	R	R	R	R	R -G►	R	R	R	DW	DW	DW	DW
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																	
Phase 1 & 6	◄G-	◄G-	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 Change	◄Y-	◄Y-	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
Phase 2 & 5	◄R-	◄R-	R	R	◄G-	◄G-	R	R	R	R	R -G►	R	R	R	DW	DW	DW	DW
5 Change	◄R-	◄R-	R	R	◄Y-	◄Y-	R	R	R	R	R -Y►	R	R	R	DW	DW	DW	DW
Phase 2 & 6	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
Ped Clear	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 Change	◄R-	◄R-	Y	Y	R	R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
Phase 3	R	R	R	R	R	R	R	R	R	R	R	◄G-	◄G	G	DW	DW	DW	DW
3 Change	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
3 Alt.	R	R	R	R	R	R	R	R	R	R	R	◄G-	◄G-	G	DW	DW	DW	WK
Ped. Clear	R	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	FL/DW
3 Alt. Change	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
Phase 4	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	R	DW	DW	DW	DW
4 Change	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
4 Alt.	R	R	R	R	R	R	R	R	G ◄G-	G ◄G-	G	R	R	R	DW	DW	WK	DW
Ped. Clear	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	FL/DW	DW
4 Alt. Change	R	R	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW
Flashing Operation	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING DIAGRAM

A,B - 7 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG.
C - 5 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG.
D - 2 CONDUCTOR ELECTRICAL CABLE NO. 12 AWG TYPE TC.
EX - EXISTING ELECTICAL CABLE

PROJECT CONTACTS

Mr. DAVE MALKOWSKI
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410 321-2800

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Mr. DAVE RAMSEY
ASSISTANT DISTRICT ENGINEER-MAINTENANCE
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CHIEF, TRAFFIC OPERATIONS DIVISION
410 787-7630

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 AND SILVER SPRING ROAD

DRAWN BY: DBD	F.A.P. NO.		TS NO. TS-1447 I	SHEET NO.	
CHECKED BY:	S.H.A. NO.	2B5476B50681			
SCALE:	COUNTY:	BALTIMORE	T.I.M.S. NO. E-830	2 OF 2	
DATE: 1001	LOG MILE:				