MD 198 RUNS IN A EAST-WEST DIRECTION.

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLTION OF PEDESTRAIN INDICATIONS, PUSHBUTTONS, AND A CROSSWALK FOR THE EAST LEG OF MD 198 AT THE INTERSECTION OF MD 198 AND McKNEW ROAD IN MONTGOMERY COUNTY. MD 198 RUNS IN A EAST-WEST DIRECTION.

II. OPERATION

THIS INTERSECTION IS EQUIPPED WITH EIGHT PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET. IT WILL USE FIVE PHASES OUT OF EIGHT WITH A EXCLUSIVE/ PERMISSIVE LEFT TURN PHASE FOR EASTBOUND AND WESTBOUND MD 198. THE PEDESTRIAN PHASE WILL TAKE PLACE DURING PHASE 04.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
	35.6 S.F.	1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "EAST, MARYLAND 198, (RIGHT ARROW)", 30" x 51", POLE MOUNTED HARDWARE
		1 EACH ASSOCIATED SHIELD ASSEMBLY SIGN, "WEST, MARYLAND 198, (LEFT ARROW)", 48" x 75", POLE MOUNTED HARDWARE

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

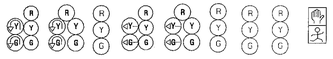
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5004	170 L.F.	F & I 12" WHITE HEAT APPLIED PERMANENT PERFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	140 L.F.	F & I 24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5008	180 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
6004	98 S.F.	F & I 4" CONCRETE SIDEWALK
8010	4 EACH	F & I 12" PEDESTRIAN SIGNAL HEAD SECTION
8030	1 EACH	F & I 14' BREAKAWAY PEDESTAL POLE AND BASE
8032	2 EACH	F & I PUSHBUTTON AND SIGN - R10-4(1) SIGN, "PUSH BUTTON TO CROSS SANDY SPRING ROAD", 9" x 12", POLE MOUNTED HARDWARE
8048	1 EACH	REMOVE AND DISPOSE EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8059	1 C.Y.	F & I CONCRETE FOR SIGNAL FOUNDATION
8062	165 L.F.	F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8070	5 L.F.	F & I 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8074	1 EACH	F & I ELECTRICAL HANDHOLE
8076	35.6 S.F.	INSTALL GROUND MOUNTED SIGN
8082	1 EACH	F & I GROUND ROD - 3/4" x 10' LENGTH
8083	105 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (ALUMINUM SHIELDED)
8084	500 L.F.	F & I ELECTRICAL CABLE - 2-CONDUCTOR (NO. 14 AWG)
8085	520 L.F.	F & I ELECTRICAL CABLE - 3-CONDUCTOR (NO. 14 AWG)
8089	415 L.F.	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8090	115 L.F.	F & I SAW CUT FOR SIGNAL (LOOP DETECTOR)
8093	85 L.F.	F & I 2" PVC SCHEDULE 80 CONDUIT - TRENCHED

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA

ITEM NO.	QUANTITY	DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

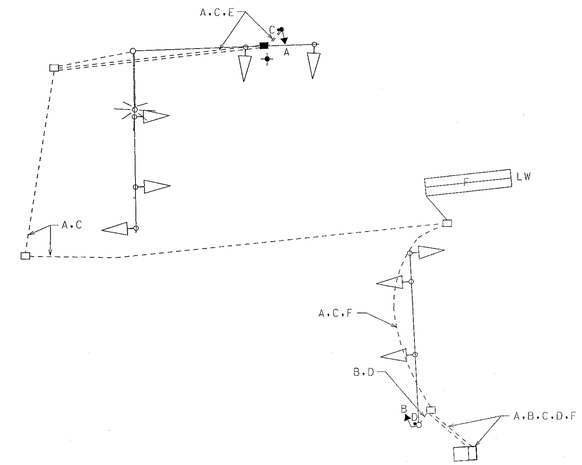
PHASE CHART



	1	2	3	4	5	6	7	8	9-10	
PHASE 1 & 5	G-R	G-R	R	G-R	G-R	R	R	R	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	G	R	R	R	R	R	DW	
1 CHANGE	Y-G	Y-G	G	R	R	R	R	R	DW	
PHASE 2 & 5	R	R	R	G-G	G-G	G	R	R	DW	
5 CHANGE	R	R	R	Y-G	Y-G	G	R	R	DW	
PHASE 2 & 6	G	G	G	G	G	G	R	R	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	DW	
PHASE 4	R	R	R	R	R	R	G	G	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	
4 ALT.	R	R	R	R	R	R	G	G	WK	
PED. CLEAR	R	R	R	R	R	R	G	G	FL/DW	
4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	

WIRING DIAGRAM

A-B = 3-CONDUCTOR CABLE (NO. 14 AWG)
C-D = 2-CONDUCTOR CABLE (NO. 14 AWG)
E = NO. 6 STRANDED BARE COPPER GROUND WIRE
F = 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
LW = LOOP WIRE
= GROUND ROD



PROJECT CONTACTS

THE PROJECT CONTACTS ARE AS FOLLOWS:

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

MD 198 and McKnew Road
BURTONSVILLE, MARYLAND

DRAWN BY: William Malcolm	F.A.P. NO.	T.S. NO.	SHEET NO.
CHECKED BY:	S.H.A. NO. MO 198 A 54	TS-2696 B	
SCALE: AS NOTED	COUNTY MONTGOMERY	T.I.M.S. NO.	
DATE: 07/2002	LOG MILE 15019804.37	F225	2 OF 2