F H W A REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 193 AND WALKER DRIVE/GREENBELT PARK ENTRANCE IN PRINCE GEORGES COUNTY. MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 193 APPROACHES OPERATING CONCURRENTLY AND THE WALKER DRIVE/GREENBELT PARK ENTRANCE APPROACHES OPERATING CONCURRENTLY. THE EXISTING SINGLE LANE EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES FOR EAST-WEST MD 193 WILL BE CHANGED TO A DOUBLE LANE, EXCLUSIVE LEFT-TURN PHASE FOR EASTBOUND MD 193 AND SINGLE LANE EXCLUSIVE LEFT-TURN PHASE FOR WESTBOUND MD 193.

THE EXISTING ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 193 WILL BE MAINTAINED

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, EIGHT-PHASE CONTROLLER WILL BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CHARLES WATKINS
DISTRICT ENGINEER
PHONE: (301) 513-7311

MR. MAJIB SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7358

MR. RANDY BROWN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH
DISTRICT UTILITIES ENGINEER
PHONE: (301) 513-7350

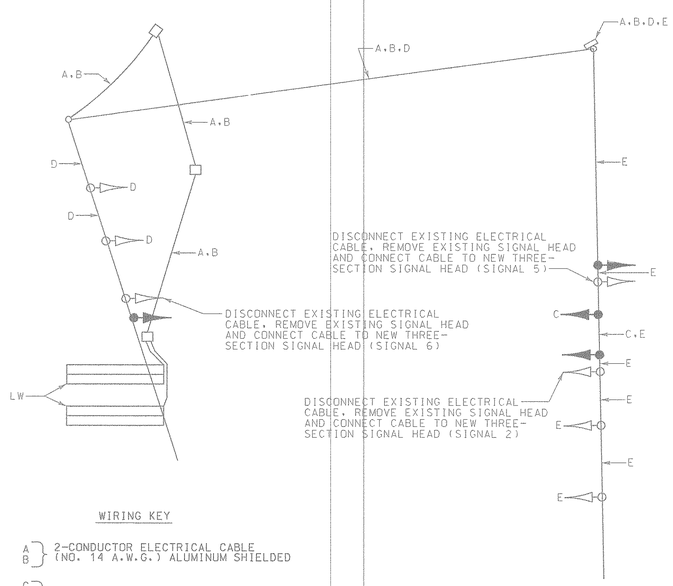
MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE PROJECT.

STANDARD NO. MD-104.00-104.00-12
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)

WIRING DIAGRAM



WIRING KEY

A, B — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED

C, D, E — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

LW - LOOP WIRE (NO. 14 A.W.G.)

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

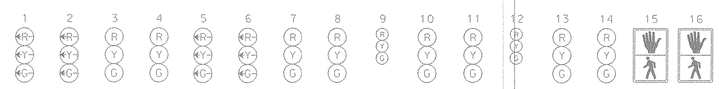
ITEM NO.	QUANTITY	DESCRIPTION
9046	4 EACH	12 IN., ONE-WAY, THREE-SECTION (RA,YA,GA) TRAFFIC SIGNAL HEAD - SPAN MOUNT.
9089	16 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
		- 2 EACH R3-5L SIGN (30 IN. X 36 IN.) - SPAN MOUNT.
9000	1 EACH	TETHER CLAMP

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5008	110 L.F.	6 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE
5010	15 L.F.	24 IN. WHITE THERMOPLASTIC PAVMENT MARKING TAPE
5012	2 EACH	THERMOPLASTIC PAVEMENT MARKING ARROW
5013	750 L.F.	REMOVE EXISTING PAVEMENT MARKINGS - ANY WIDTH
8011	4 EACH	INSTALL SIGNAL HEAD - ANY TYPE
8021	250 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8023	20 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8040	930 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8041	920 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8044	575 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
8054	16 S.F.	INSTALL OVERHEAD SIGN
8061	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT
8000	1 EACH	INSTALL TETHER CLAMP AND TETHER WIRE TO EXISTING SIGNAL HEAD

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	G	G	R	R	G	G	R	R	R	R	R	R	R	R	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6															
PHASE 1 + 6	G	G	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
1 + 6 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 + 5	R	R	R	R	G	G	G	G	R	R	R	R	R	R	DW	DW
2 + 5 CHANGE	R	R	R	R	Y	Y	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 + 6	R	R	G	G	R	R	G	G	R	R	R	R	R	R	DW	DW
2 + 6 CHANGE	R	R	Y	Y	R	R	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 + 8	R	R	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	G	G	G	G	G	G	WK	WK
PED. CLEARANCE	R	R	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	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

Whitman, Requardt and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 193 AND WALKER DRIVE

DATE: 11-4-97	DRAWN BY: S.BLOSS	F.A.P. NO. AC-STPG-000S(588)E	PLAN SHEET NO.: TS-24/33B	SHEET NO. 2 OF 2
SCALE: NONE	DESIGNED BY: N.LEARY	S.H.A. NO. AW277A57/B57		
APPROVED BY:	CHECKED BY: T.HANNAN	COUNTY PRINCE GEORGES		