PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AUDIBLE PEDESTRIAN SIGNAL PUSHBUTTONS AND LED PEDESTRIAN HEADS AT THE INTERSECTION OF MD 5 (POINT LOOKOUT RD.) AND MD 245 (HOLLYWOOD RD.) IN ST. MARYS COUNTY. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC ACTUATED MODE WITH THE MD 5 (POINT LOOKOUT RD.) APPROACHES OPERATING CONCURRENTLY AND THE MD 245 (HOLLYWOOD RD.) APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASES EXIST FOR ALL APPROACHES.

ALTERNATE PEDESTRIAN PHASES ARE PROVIDED ACROSS BOTH LEGS OF MD 5 (POINT LOOKOUT RD.) AND BOTH LEGS OF MD 245 (HOLLYWOOD RD.)

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30

STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)

STANDARD NO. MD-104.43-01 (SHOULDER WORK)

STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)

STANDARD NO. MD-104.49-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. LAWRENCE E. ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. CHUCK E. GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. JOHN S. MAYS
DISTRICT UTILITY ENGINEER
PHONE: (410) 841-1039

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

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9066	4 EACH	PEDESTAL POLE, 10 FT. WITH TRANSFORMER BASE AND ANCHOR BOLTS

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

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
2001	8 CY	CLASS 2 EXCAVATION
2002	2 C.Y.	TEST PIT EXCAVATION
6001	40 L.F.	FURNISH AND INSTALL DEPRESSED CURB & GUTTER
6004	300 S.F.	FURNISH AND INSTALL 4 IN. CONCRETE SIDEWALK
8002	1 EACH	3/4 IN. TO 3 IN. BLIND COUPLING WELDED & GALVANIZED
8006	3 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8048	1 EACH	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
8057	4 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8080	4 EACH	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIAMETER x 10 FT. LENGTH
8091	80 L.F.	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID PVC - TRENCHED
NEG.	8 EACH	FURNISH AND INSTALL POLARA NAVIGATOR AUDIBLE PEDESTRIAN SIGNAL WITH BLACK FACE PLATE OPTION 'A'
NEG.	8 EACH	FURNISH AND INSTALL MD SPECIAL PEDESTRIAN HEAD CONTROL UNIT CONSTANT POWER MD SPEC
NEG.	2200 L.F.	BELDEN #8691 6 PAIR (NO. 18 A.W.G.) ELECTRICAL CABLE
NEG.	2200 L.F.	BELDEN #8760 SHIELDED MICROPHONE CABLE
NEG.	8 EACH	FURNISH AND INSTALL 16 IN. CLAMSHEEL L.E.D. PEDESTRIAN TRAFFIC SIGNAL HEAD SECTION
NEG.	4 EACH	INSTALL PEDESTAL POLE AND TRANSFOMER BASE
NEG.	LUMP SUM	INSTALLATION OF DETECTABLE WARNING TRUNCATED DOMES

WIRING DIAGRAM

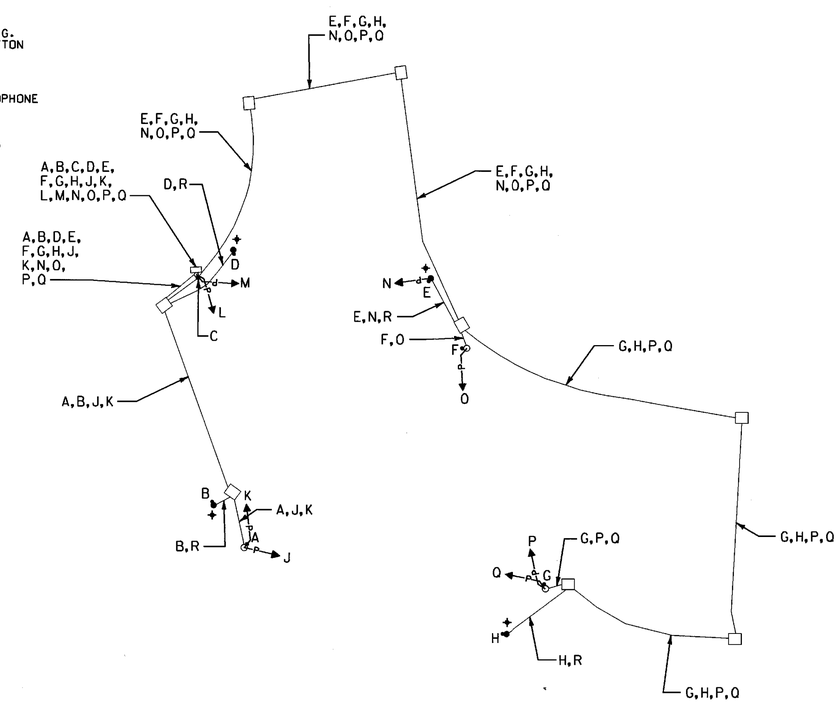
WIRING KEY

A, B, C, D, E, F, G, H — BELDEN #8691 6 PAIR 18 A.W.G. (FOR PEDESTRIAN SIGNAL, BUTTON AND VIBRATING ARROW)

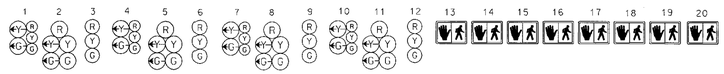
J, K, L, M, N, O, P, Q — BELDEN #8760 SHIELDED MICROPHONE CABLE (FOR MICROPHONE)

R — STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

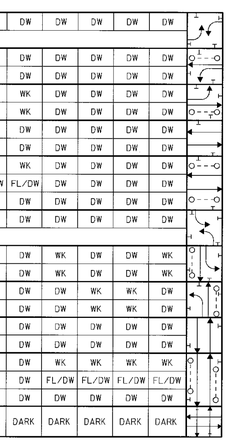
+ - 3/4 IN. X 10 FT. GROUND ROD



PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 + 5	R G	R G	R	R G	R G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	PHASE 1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5 OR PHASE 2 + 6																			
PHASE 1 + 6	G G	G G	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 + 6 CHANGE	G Y	G Y	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	R	G G	G G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 + 5 CHANGE	R	R	R	G Y	G Y	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 + 6 ALT	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 + 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 + 7	R	R	R	R	R	R	R G	R G	R	R G	R G	R	DW	DW	DW	DW	DW	DW	DW	DW
3 + 7 CHANGE	PHASE 3 + 7 MAY CHANGE TO PHASE 3 + 8, PHASE 4 + 7 OR PHASE 4 + 8																			
PHASE 3 + 8	R	R	R	R	R	R	R	R	R	G G	G G	G	DW	DW	DW	DW	WK	DW	DW	WK
3 + 8 CHANGE	R	R	R	R	R	R	R	R	R	G Y	G Y	G	DW	DW	DW	DW	WK	DW	DW	WK
PHASE 4 + 7	R	R	R	R	R	R	G G	G G	G	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW
4 + 7 CHANGE	R	R	R	R	R	R	G Y	G Y	G	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW
PHASE 4 + 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 + 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 + 8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



REVISION "G"

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

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

GENERAL INFORMATION SHEET
MD 5 (Point Lookout Rd.) and MD 245 (Hollywood Rd.)
(Leonardtown, MD)

DRAWN BY:	B. MARTINE	F.A.P. NO.	BM765A53	TS NO. TS-8011	SHEET NO.
CHECKED BY:	N. LEARY	S.H.A. NO.			
SCALE:	NONE	COUNTY:	ST. MARYS	T.I.M.S. NO. E969	2 OF 2
DATE:	10/8/2002	LOG MILE:	18005028.92		

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