

PROJECT DESCRIPTION

GENERAL
THIS PROJECT INVOLVES THE REPAIR OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 28 (KEY WEST AVENUE) AND DARNESTOWN ROAD IN MONTGOMERY COUNTY, MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION WILL OPERATE IN A NEMA, TWO (2) PHASE, FULL-TRAFFIC-ACTUATED MODE. MD 28 APPROACHES WILL RUN CONCURRENTLY. DARNESTOWN ROAD WILL OPERATE SEPERATELY. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE EAST LEG. A CONCURRENT PEDESTRIAN PHASE WILL OPERATE ACROSS THE SOUTH LEG OF THE INTERSECTION.

PROJECT CONTRACTS:

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

MR. MAJID SHAKIB, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318

MR. DENNIS MCMAHON, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7336

MR. WAYNE MOWDY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 513-7304

MR. AUGIE REBISH, UTILITY ENGINEER
PHONE: (301) 513-7350

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

MR. BOB GONZALES, TRAFFIC ENGINEER - MONTGOMERY CO. TMC
PHONE: (240) 777-8761

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9000	1 EA	[UPDATED] TS2 MINI HUB WITH CABLE
9010	2 EA	[UPDATED] 12" X 32' STRAIN POLE (2 1/4" X 96" ANCHORS INCLUDED)
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	11 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

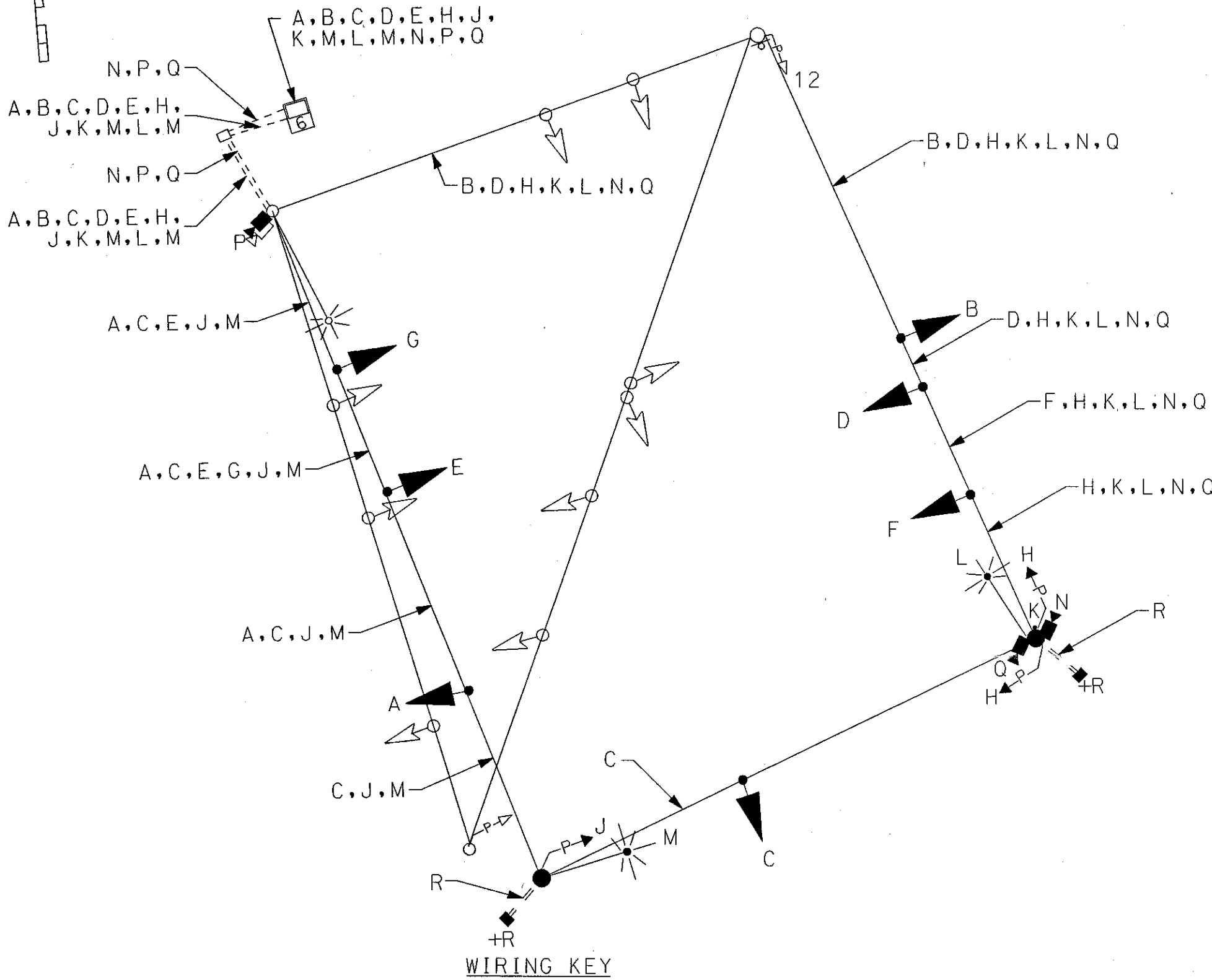
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
8001	10 CY	CONCRETE FOUNDATION
8002	6 EA	12 INCH PEDESTRIAN SIGNAL HEAD
8004	2 EA	15 FOOT LIGHTING ARM ON EXISTING
8012	1 EA	PUSHBUTTON AND SIGN
8014	1 EA	REMOVE AND DISPOSE OF EQUIPMENT
8019	550 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO. 12 AWG
8022	30 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8029	20 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8040	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8042	11 SF	INSTALL OVERHEAD SIGN
8046	2 EA	250 WATT HIGH PRESSURE SODIUMM LAMP AND LUMINAIRE
8051	21 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8054	310 LF	ELECTRICAL CABLE - 2 CONDUCTOR NO. 14 AWG
8055	230 LF	ELECTRICAL CABLE - 3 CONDUCTOR NO. 14 AWG
8056	380 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG
8057	1050 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG
8064	400 LF	STEEL SPAN WIRE - 3/8 INCH DIAMETER
8071	3 EA	NEG - APPROVED - FURNISH AND INSTALL AUTOSCOPE SOLO PRO CAMERA
8072	1 EA	NEG - APPROVED - FURNISH AND INSTALL 250 FOOT SOLO PRO CAMERA CABLE
8073	2 EA	NEG - APPROVED - FURNISH AND INSTALL 500 FOOT SOLO PRO CABLE

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	Hand	Hand	Hand	Hand
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	FLDW	FLDW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	G	G	G	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	DW	DW	FLDW	FLDW
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

WIRING DIAGRAM



- A, B, C, D, E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
F, G, H } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J } 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
K } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
L, M } 2 CONDUCTOR CABLE TYPE TC (NO. 12 AWG)
N, O } DETECTION CAMERA TO CONTROLLER CABINET CABLE 300' LEAD-IN
P } DETECTION CAMERA TO CONTROLLER CABINET CABLE 200' LEAD-IN
R } STRANDED BARE COPPER GROUND WIRE
+ } GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (KEY WEST AVENUE) AT DARNESTOWN ROAD
GENERAL INFORMATION SHEET
NORTH POTOMAC, MARYLAND

DRAWN BY: S.HOLLIE	F.A.P. NO. 2640-C-61	TS NO. 2640-C-61	SHEET NO. 2 OF 2
CHECKED BY: S. HOLLIE	S.H.A. NO. 0T2003	T.I.M.S. NO. 6662	
SCALE: NONE	COUNTY: MONTGOMERY	LOG MILE: 15002818.21	
DATE: Oct. 1, 2004			