

**PROJECT DESCRIPTION**

**GENERAL**

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF BRIGGS CHANEY ROAD AT RAMP A AND RAMP B IN MONTGOMERY COUNTY.

**INTERSECTION OPERATION**

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. PROVIDE PEDESTRIAN CROSSING ACROSS THE NORTH LEG OF RAMPS A AND B.

**SPECIAL NOTES**

- THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:  
 MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER-TRAFFIC  
 PHONE: (301) 513-7300  
 MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
 PHONE: (301) 513-7300  
 MR. DENNIS McMAHAN, ASSISTANT DISTRICT ENGINEER-CONSTRUCTION  
 PHONE: (301) 513-7345  
 MR. AUGIE REBISH, UTILITY ENGINEER  
 PHONE: (301) 513-7300  
 MR. RICHARD L. DAFF, Sr., CHIEF TRAFFIC OPERATIONS DIVISION  
 PHONE: (410) 787-7630  
 MR. BOBBY GONZALES, TRAFFIC ENGINEER MCDPW&T  
 PHONE: (240) 777-2190
- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL.
- CONTACT MONTGOMERY COUNTY TMC AT LEAST 72 HOURS PRIOR TO ANY WORK TO LOCATE EXISTING EQUIPMENT.  
 TMC - 240-777-2100

**EQUIPMENT LIST**

**A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.**

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE 6) CABINET (MSHA SPECIFICATIONS) WITH ECONOLITE ASC II 2100 CONTROLLER, SSM 12 E CONFLICT MONITOR, VIDEO INTERFACE EQUIPMENT, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS.	EA	1
973023	FLAT SHEET ALUMINUM SIGNS, R10-12 (36"X42") D-3(1) (VAR,X16") R10-11B (24"X24") R3-5(R) (30"X36") R10-4C (MOD.) R3-8(7) (L)(60"X36") SHIELD ASSEMBLY(36"X75") SHIELD ASSEMBLY(30"X51")	SF EA EA EA EA EA EA EA EA	79 1 1 1 1 2 1 1 1

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

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	4
585448	12 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING	LF	200
585452	24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKING	LF	120
800000	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT	LS	1
800000	INSTALL BACKGUY AND ASSEMBLY	EA	1
800000	REMOVE AND DISPOSE EXISTING EQUIPMENT	LS	1
800000	RELOCATE EXISTING VIDEO DETECTION CAMERA	EA	3
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	10
805050	3 INCH WEATHERHEAD	EA	2
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	50
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	270
807400	ELEC. UTILITY SER. EQUIP. 120/240V 60 AMP	EA	1
811001	FURNISH AND INSTALL HANDHOLE	EA	3
813015	INSTALL OVERHEAD SIGN	SF	79
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
818009	32 FOOT X 14 INCH STRAIN POLE (TWO PLY)	EA	1
818010	14 FOOT PEDESTAL POLE WITH BREAKAWAY BASE	EA	1
818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	1
831010	250 WATT HPSV LUMINAIRE W/PHOTOCELL	EA	1
832017	ELECTRICAL CABLE- 1 CONDUCTOR (NO. 4 AWG)	LF	200
832020	BARE COPPER GROUND WIRE, NO. 6 AWG	LF	500
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	4
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	41
860278	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	4
860280	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PED POLE MOUNT	EA	4
861106	ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)	LF	215
861107	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)	LF	100
861108	ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)	LF	875
861116	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 AWG)	LF	315
866103	15 FOOT LIGHTING ARM FOR SIGNAL STRUCTURE	EA	2
869101	STEEL SPAN WIRE 1/4 IN. DIAMETER (TETHER WIRE)	LF	220
869102	STEEL SPAN WIRE 3/8 IN. DIAMETER	LF	220
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

**C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.**

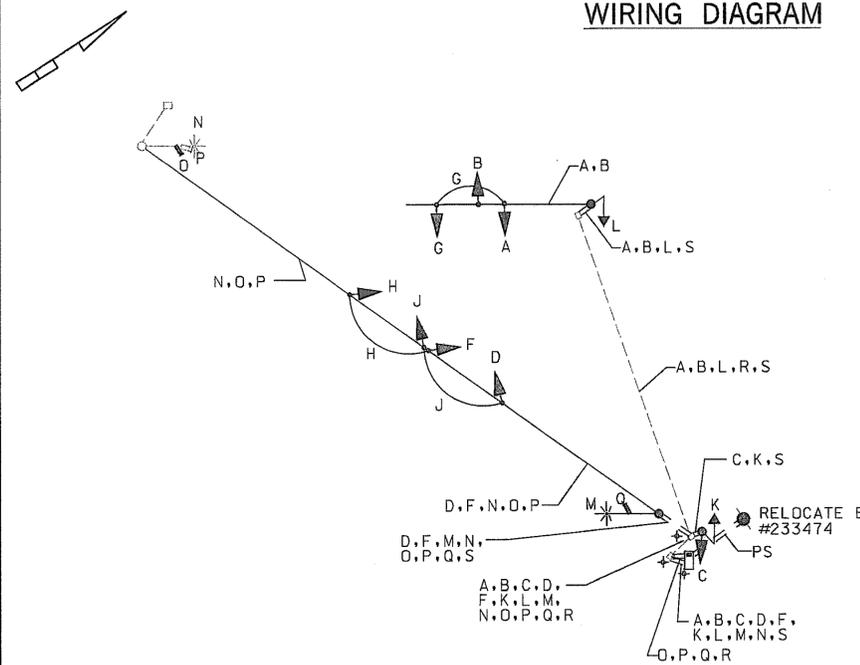
ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY

**D. MATERIALS TO BE REMOVED BY MCDPTW&T.**

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
	VIDEO DETECTION CAMERA	EA	1

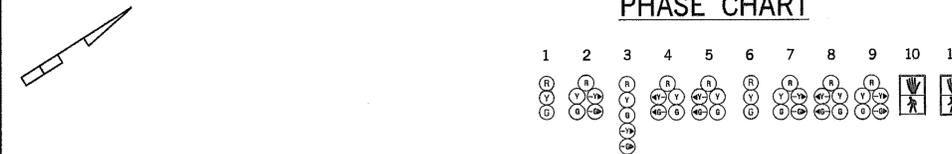
**WIRING DIAGRAM**



**KEY**

A, B, C, D, F	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
G, H, J	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
K, L	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
M, N	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG)
Q	VIDEO DETECTION CABLE 250 FT. LEAD IN
D, P	VIDEO DETECTION CABLE 500 FT. LEAD IN
R	12 PAIR INTERCONNECT CABLE
S	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE UNDERGROUND GROUND ROD

**PHASE CHART**



PHASE	1	2	3	4	5	6	7	8	9	10	11
PHASE 2 AND 5	R	R	R	+G/G	+G/G	G	-R/G	R	-R/G	DW	DW
2 AND 5 CHANGE	R	R	R	+Y/G	+Y/G	Y	-R/Y	R	-R/Y	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	WK	WK
PED CLEARANCE	G	G	G	G	G	G	R	R	R	FL/DW	FL/DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW
PHASE 4	R	-R/G	-R/G	R	R	R	-G/G	+G/G	G	DW	DW
4 CHANGE	R	-R/Y	-R/Y	R	R	R	-Y/G	+Y/Y	Y	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK

**FIRE HOUSE PRE-EMPTION**

PHASE	1	2	3	4	5	6	7	8	9	10	11
FIRE HOUSE PRE-EMPTION PHASE 2	R	R	R	+G/G	+G/G	G	R	R	R	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	+Y/G	+Y/G	Y	R	R	R	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	WK	WK

TSP 17

M.O.T. STAGE 4

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
 Office of Traffic & Safety  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 TEMPORARY TRAFFIC SIGNAL PLAN  
**BRIGGS CHANEY ROAD AT RAMP A AND RAMP B INTERCHANGE IMPROVEMENTS**

**SABRA, WANG & ASSOCIATES, INC.**  
 1604 JOH AVENUE  
 SUITE 160  
 BALTIMORE, MD 21227  
 WWW.SABRA-WANG.COM

DRAWN BY: S. SMITH	F.A.P. NO. MOB685170	SEE TITLE SHEET	TS NO. 4224	SHEET NO.
CHECKED BY: NTS	S.H.A. NO. MONTGOMERY	COUNTY: MONTGOMERY	T.I.M.S. NO. F-357	
SCALE: MAY, 2003	LOG MILE: 15CBRI03.25			130 OF 504

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