

**PROJECT DESCRIPTION
GENERAL**

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A TRAFFIC SIGNAL AT THE INTERSECTION OF BRIGGS CHANEY ROAD AT OLD COLUMBIA PIKE 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 8 NEMA PHASES.

SPECIAL NOTES

1. 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

- 2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL.
- 3. 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 11 2100 CONTROLLER, SSM 12 E CONFLICT MONITOR, POWER SUPPLY FOR RACK MOUNTED DETECTION, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS.	EA	1
973023	FLAT SHEET ALUMINUM SIGNS: R10-12 (36"x42") D-3(1) (DUAL FACE) (VAR. X 16") R10-4C (12"x9")	SF EA EA EA	140 4 8 4

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

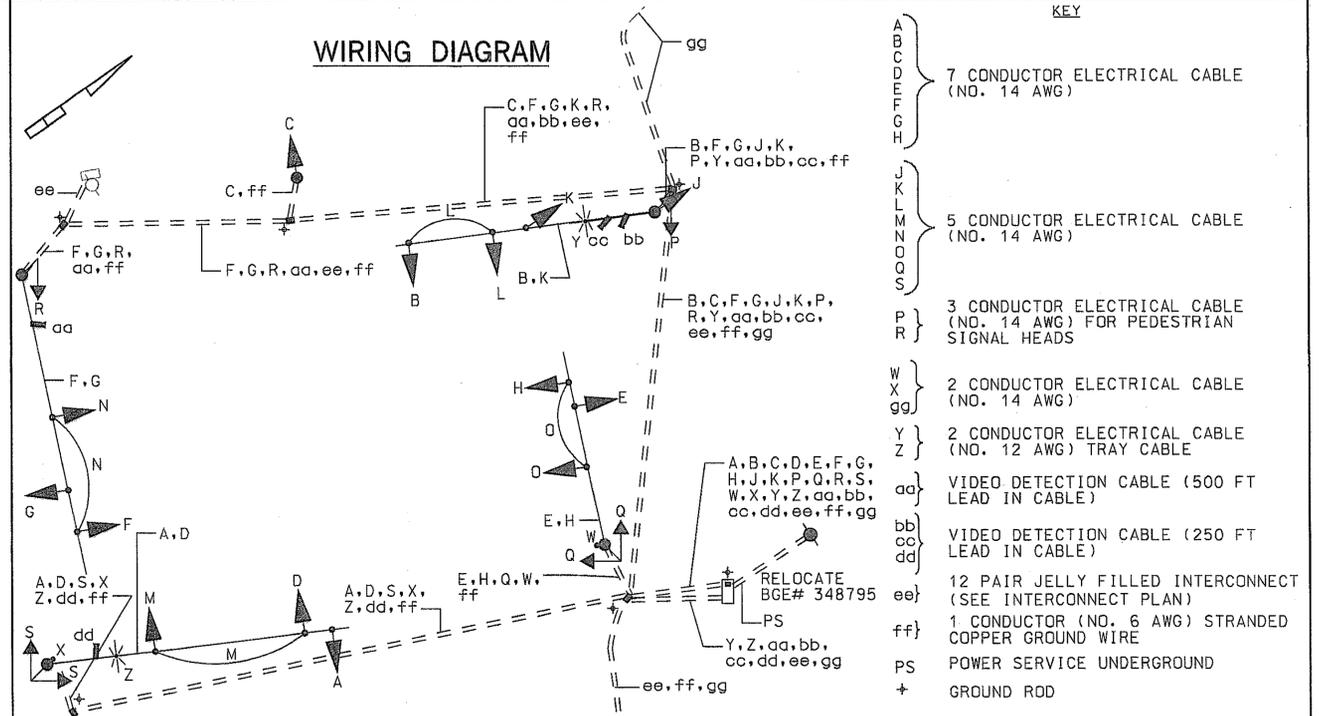
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	6
585620	12 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	400
585624	24 INCH WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	160
800000	REMOVE AND DISPOSE EXISTING EQUIPMENT	LF	1
800000	45 DEGREE CONDUIT SLEEVE	LF	20
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	22
801607	INSTALL SHEET ALUMINUM SIGN	SF	140
805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	770
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	50
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	150
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
807400	ELEC. UTILITY SER. EQUIP. 120/240V 60 AMPS	EA	1
811001	FURNISH AND INSTALL HANDHOLE	EA	1
816001	VIDEO DETECTION CAMERA	EA	4
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
818010	14 FOOT PEDESTAL POLE WITH BREAK AWAY BASE	EA	1
818036	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM	EA	1
818041	STEEL POLE WITH A SINGLE 60 FOOT MAST ARM	EA	2
818052	STEEL POLE WITH A SINGLE 70 FOOT MAST ARM	EA	1
831010	250 WATT HPSV LUMINAIRE W/PHOTOCELL	EA	1
802501	STRANDED BARE COPPER GROUND WIRE, NO. 6 AWG	LF	1000
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	6
860278	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	12
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	58
860292	CUT, CLEAN, GALV & CAP TRAFF SIGNAL STRUC	EA	1
861105	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)	LF	400
861106	ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)	LF	520
861107	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)	LF	730
861108	ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)	LF	2050
861116	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 AWG)	LF	450
861117	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 AWG.)	LF	15
865001	PUSH BUTTON AND SIGN	EA	2
866103	15 FOOT LIGHTING ARM FOR SIGNAL STRUCTURE	EA	2
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

MONTGOMERY COUNTY FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

MONTGOMERY COUNTY SHALL REMOVE THE EXISTING VIDEO DETECTION CAMERAS. CONTACT BOBBY GONZALES, OF THE COUNTY, 72 HOURS IN ADVANCE OF REMOVAL.

WIRING DIAGRAM



KEY

A B C D E F G H	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J K L M N O P Q R	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
S	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR PEDESTRIAN SIGNAL HEADS
W X Y Z	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
aa	VIDEO DETECTION CABLE (500 FT LEAD IN CABLE)
bb	VIDEO DETECTION CABLE (250 FT LEAD IN CABLE)
cc	VIDEO DETECTION CABLE (250 FT LEAD IN CABLE)
dd	VIDEO DETECTION CABLE (250 FT LEAD IN CABLE)
ee	12 PAIR JELLY FILLED INTERCONNECT (SEE INTERCONNECT PLAN)
ff	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE UNDERGROUND
+	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 AND 5	G/R	G/R	R	G/R	G/R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	G/G	G/G	G	R	R	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 1 AND 6	G/G	G/G	G	R	R	R	R	R	R	R	R	R	R	R	DW	FL/DW	FL/DW	DW	DW	DW
PED CLEARANCE	G/Y	G/Y	Y	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	G/Y	G/Y	Y	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	G/G	G/G	G	R	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PED CLEARANCE	R	R	R	G/G	G/G	G	R	R	R	R	R	R	R	R	FL/DW	DW	FL/DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	G/Y	G/Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 AND 7	R	R	R	R	R	R	G/R	G/R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8	R	R	R	R	R	R	G/G	G/G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 AND 8	R	R	R	R	R	R	R	R	R	G/G	G/G	G	R	R	DW	DW	DW	DW	DW	DW
3 AND 8 CHANGE	R	R	R	R	R	R	R	R	R	G/G	G/G	G	Y	R	R	DW	DW	DW	DW	DW
PHASE 4 AND 7	R	R	R	R	R	R	G/G	G/G	G	R	R	R	R	R	DW	DW	DW	DW	DW	DW
4 AND 7 CHANGE	R	R	R	R	R	R	G/G	G/G	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	G	G	R	R	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	G	G	G	G	R	R	R	R	DW	DW	DW	DW	DW	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	R	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 4 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	DARK	DARK	DARK	DARK	DARK	DARK							
FIRE HOUSE PRE-EMPTION	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	G	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW

GP-08

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
BRIGGS CHANEY ROAD AT OLD COLUMBIA PIKE INTERCHANGE IMPROVEMENTS

DRAWN BY: S. SMITH	F.A.P. NO. SEE TITLE SHEET	TS NO.	SHEET NO.
CHECKED BY: NTS	S.H.A. NO. M08685170		
SCALE: FEBRUARY 2003	COUNTY: MONTGOMERY	T.J.M.S. NO. F-357	
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