PROJECT DESCRIPTION
GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF BRIGGS CHANEY ROAD AT US 29 RAMP A AND 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 4 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 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,	SF	72
	D-3(1) (VAR. X 16")	EA	1
	R3-5 (L) (30"X36")	EA	2
	R10-4C MOD (12"X9")	EA	2
	R10-11(B) (24"X24")	EA	1
	R3-6 (R) (30"X36")	EA	1
	M95-1(MOD.) (108"X36")	EA	1

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

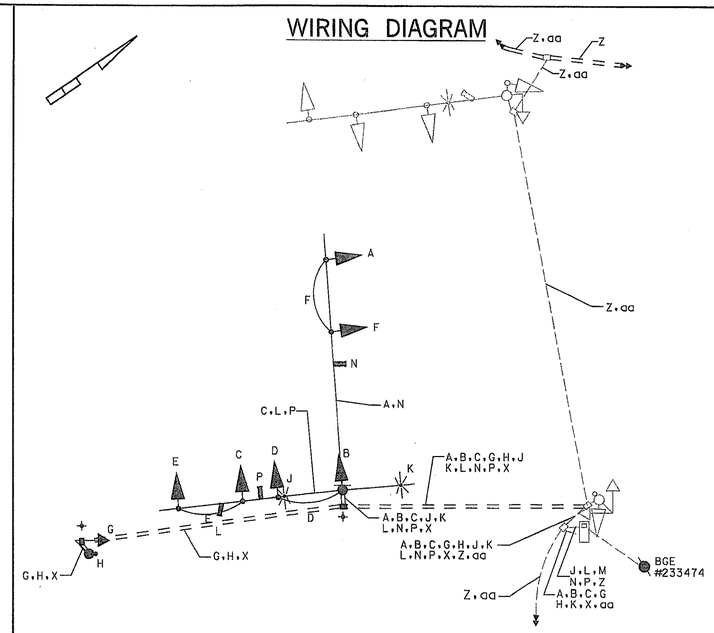
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	5
585620	12 INCH WHITE HEAT APPLIED PERM. PREFORMED THERMO. PAVEMENT MARKINGS	LF	320
585624	24 INCH WHITE HEAT APPLIED PERM. PREFORMED THERMO. PAVEMENT MARKINGS	LF	145
800000	RELOCATE EXISTING VIDEO DETECTION CAMERA	EA	3
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	13
801607	INSTALL SHEET ALUMINUM SIGN	SF	72
802501	STRANDED BARE COPPER GROUND WIRE, NO. 6 AWG	LF	180
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	160
807400	ELEC. UTILITY SER. EQUIP. 120/240V 60 AMP	EA	1
811001	FURNISH AND INSTALL HANDHOLE	EA	3
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
818004	10 FOOT PEDESTAL POLE WITH BREAKAWAY BASE	EA	1
818051	STEEL POLE WITH A TWIN 70 AND 50 FOOT MAST ARM	EA	1
831010	250 WATT HPSV LUMINAIRE W/PHOTOCELL	EA	2
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	2
860282	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PED POLE MOUNT	EA	2
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	20
861117	ELECTRICAL CABLE- 1 CONDUCTOR (NO. 4 AWG)	LF	15
861105	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)	LF	200
861106	ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)	LF	200
861107	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)	LF	100
861108	ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)	LF	550
861116	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 AWG)	LF	350
865001	PUSH BUTTON AND SIGN	EA	1
866103	15 FOOT LIGHTING ARM FOR SIGNAL STRUCTURE	EA	2

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 CONRTRACTOR.

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

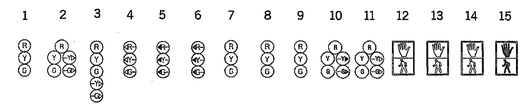
WIRING DIAGRAM



KEY

- A, B, C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- aa } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR FIREHOUSE PRE-EMPTION
- D, E, F } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- G } 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) FOR PEDESTRIAN SIGNAL HEADS
- H } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- J, K } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
- L, N, P } VIDEO DETECTION CABLE (250 FT LEAD-IN CABLE)
- Z } 12 PAIR JELLY FILLED INTERCONNECT (SEE INTERCONNECT PLAN)
- X } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
- + GROUND ROD

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
PHASE 2 AND 5	R	R	R	←G–	←G–	←G–	G	G	R	–R/G→	–R/G→	DW	DW	DW	DW
2 AND 5 CHANGE TO 2 AND 6,OR 3															
PHASE 2 AND 6	G	G	G	←R–	←R–	←R–	G	G	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	G	←R–	←R–	←R–	G	G	R	R	R	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	←R–	←R–	←R–	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	R	–R/G→	–R/G→	←R–	←R–	←R–	R	R	G	–G/G→	–G/G→	DW	DW	DW	DW
4 CHANGE	R	–Y/Y→	–Y/Y→	←R–	←R–	←R–	R	R	Y	–Y/Y→	–Y/Y→	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	←R–	←R–	←R–	R	R	G	–G/G→	–G/G→	DW	DW	WK	WK
PED CLEARANCE	R	R	R	←R–	←R–	←R–	R	R	G	–G/G→	–G/G→	DW	DW	FL/DW	FL/DW
4 CHANGE	R	R	R	←R–	←R–	←R–	R	R	Y	–Y/Y→	–Y/Y→	DW	DW	DW	DW
FLASHING OPERATION	FL /Y	FL /Y	FL /Y	FL /R	FL /R	FL /R	FL /Y	FL /Y	FL /R	FL /R	FL /R	DARK	DARK	DARK	DARK

FIREHOUSE PRE-EMPTION

FIRE HOUSE PRE-EMPTION PHASE 2 AND 5	R	R	R	←G–	←G–	←G–	G	G	R	R	R	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	←Y–	←Y–	←Y–	G	G	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	G	G	G	←R–	←R–	←R–	G	G	R	R	R	WK	WK	DW	DW

GP-06

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
BRIGGS CHANEY ROAD AT US 29 RAMP A & B INTERCHANGE IMPROVEMENTS

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

DRAWN BY: S. SMITH	F.A.P. NO. SEE TITLE SHEET	TS NO. 4224	SHEET NO.
CHECKED BY:	S.H.A. NO. M08685170		
SCALE: NTS	COUNTY: MONTGOMERY	T.I.M.S. NO. F-357	441 OF 504
DATE: FEBRUARY, 2003	LOG MILE: I5CBRI03.25		

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