PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF BRIGGS CHANEY ROAD AT US 29 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.

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 CONSISTING OF:	SF	51
	D-3(1) (VAR.x16") (DUAL FACE) MAST ARM MOUNT	EA	1
	R3-2 (36"x36") MAST ARM MOUNT	EA	1
	M95-1 (108"x36") MAST ARM MOUNT	EA	1

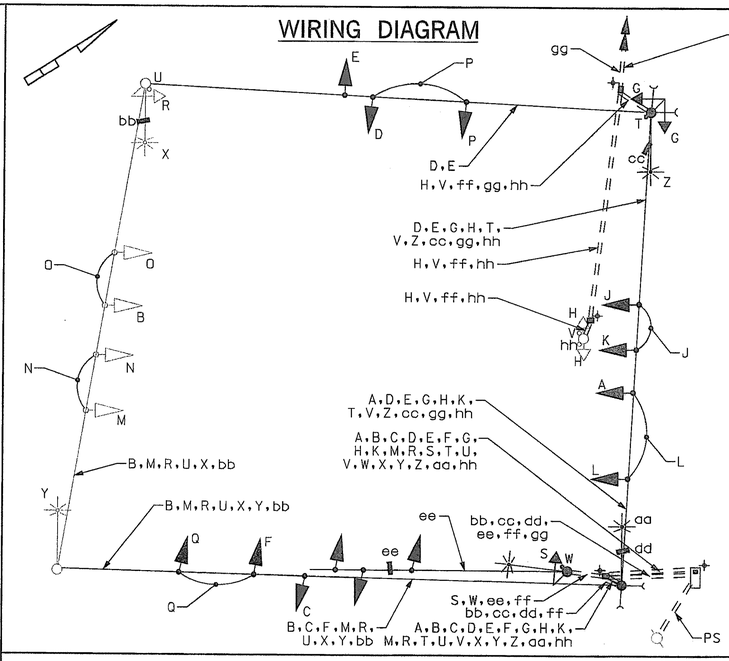
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	2
585448	12 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKINGS	LF	650
585452	24 INCH WHITE PERMANENT PREFORMED PAVEMENT MARKINGS	LF	90
585462	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH	LF	670
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
800000	RELOCATE EXISTING OVERHEAD SIGNS	EA	6
800000	INSTALL BACKGUY AND ANCHOR ASSEMBLY	EA	6
801004	CONCRETE FOR SIGNAL FOUNDATION	CY	12
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	200
805050	3 IN. WEATHER HEAD	EA	3
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	200
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	65
805155	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED	LF	115
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	3
813015	INSTALL OVERHEAD SIGN	SF	51
816001	VIDEO DETECTION CAMERA	EA	4
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
816010	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
818009	14" X 32' STRAIN POLE (2 PLY)	EA	2
818052	STEEL POLE WITH SINGLE 70 FOOT MAST ARM	EA	1
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	2
837001	GROUND ROD - 3 /4 INCH DIAMETER X 10 FOOT LENGTH	EA	4
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	43
860278	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT	EA	6
861105	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 14 AWG)	LF	1730
861106	ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)	LF	525
861107	ELECTRICAL CABLE- 5 CONDUCTOR (NO. 14 AWG)	LF	1425
861108	ELECTRICAL CABLE- 7 CONDUCTOR (NO. 14 AWG)	LF	1620
861116	ELECTRICAL CABLE- 2 CONDUCTOR (NO. 12 AWG)	LF	1100
861117	ELECTRICAL CABLE- 3 WIRE (NO. 4 AWG)	LF	10
865001	PUSH BUTTON AND SIGN	EA	2
866103	15 FOOT LIGHTING ARM FOR SIGNAL STRUCTURE	EA	2
869101	STEEL SPAN WIRE - 1/4 INCH DIAMETER	LF	620
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	620
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. MONTGOMERY FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. CONTACT BOB GONZALES AT (240) 777-2190 AT LEAST 72 HOURS PRIOR TO REMOVAL OF EXISTING CONTROLLER TO ARRANGE FOR PICKUP. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
	CONTROLLER-MASTER	EA	1
	CONTROLLER-LOCAL	EA	1

WIRING DIAGRAM



KEY

A B C D E F	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
G H J K L M N O P Q	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
R S	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
T U V W hh	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
X Y Z aa	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
bb cc dd ee	VIDEO DETECTION CABLE (500 FT LEAD IN CABLE)
ff	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
gg	STRAIN OF 12 PAIR CABLE (PRE-EMPTION CABLE)
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	21	22	23
PHASE 1 AND 6	G	G	G	G	R	R	R	R	R	BAGGED	R	R	R	BAGGED	BAGGED	R	R	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	Y	Y	G	G	R	R	R	R	R		R	R	R			R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	R	R	G	G	R	R	G	G	R		R	R	R			R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	R	R	G	G	R	R	G	G	R		R	R	R			R	R	WK	WK	DW	DW	DW	DW
2 AND 6 CHANGE	R	R	Y	Y	R	R	G	G	R		R	R	R			R	R	WK	WK	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	R	G	G	G	G	R		R	R	R			R	R	WK	WK	DW	DW	DW	DW
PED CLEARANCE	R	R	R	R	G	G	G	G	R		R	R	R			R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	R	Y	Y	Y	Y	R		R	R	R			R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R		R	R	G			G	G	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R		R	R	Y			Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	R	R	R		R	R	G			G	G	DW	DW	WK	DW	DW	WK
PED CLEARANCE	R	R	R	R	R	R	R	R	R		R	R	G			G	G	DW	DW	FL/DW	DW	DW	FL/DW
3 ALT CHANGE	R	R	R	R	R	R	R	R	R		R	R	Y			Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	G		G	G	R			R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	Y		Y	Y	R			R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	G		G	G	R			R	R	DW	DW	DW	WK	WK	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	G		G	G	R			R	R	DW	DW	DW	FL/DW	FL/DW	DW
4 ALT CHANGE	R	R	R	R	R	R	R	R	Y		Y	Y	R			R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R		FL/R	FL/R	FL/R			FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK
FIRE HOUSE PRE-EMPTION																							
FIRE HOUSE PRE-EMPTION PHASE 3	R	R	R	R	R	R	R	R	R		R	R	G			G	G	DW	DW	DW	DW	DW	DW
PRE-EMPTION CLEARANCE	R	R	R	R	R	R	R	R	R		R	R	Y			Y	Y	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6 NORMAL OPERATION	R	R	G	G	R	R	G	G	R		R	R	R			R	R	DW	DW	DW	DW	DW	DW

TSP 8

M.O.T. STAGE 1 /PHASE A

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
WWW.SABRA-WANG.COM

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

US 29 AT BRIGGS CHANEY ROAD INTERCHANGE IMPROVEMENTS

DRAWN BY: S. SMITH	F.A.P. NO.		TS NO. 1485 C	SHEET NO.
CHECKED BY:	S.H.A. NO. M0868517O			
SCALE: NTS	COUNTY: MONTGOMERY		T.I.M.S. NO. F-357	121 OF 504
DATE: JANUARY, 2003	LOG MILE: I5002908.3I			

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DATE:13-Feb-03 14:26