

PROJECT DESCRIPTION
GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AT YORK ROAD PLAZA IN BALTIMORE COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THIS INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

PROJECT CONTACTS:
MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (410) 321-2761
MS. SUE POPE, ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

2. MAINTENANCE OF TRAFFIC SHALL BE HANDLED BY THE CONTRACTOR UTILIZING MDSHA STANDARD PLATES FOR TRAFFIC CONTROL.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
971017	EIGHT PHASE(FULLY ACTUATED) CONTROLLER AND CABINET-BASE MOUNT, SYSTEM READY, WITH VIDEO INTERFACE EQUIPMENT AND 115 VOLT SPECIAL RELAY PACKAGE	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF: R3-5 (R) (30" X 36") R10-12 (24" X 30") D-3(1) (VAR. X 16")	SF EA EA EA	70 2 2 2

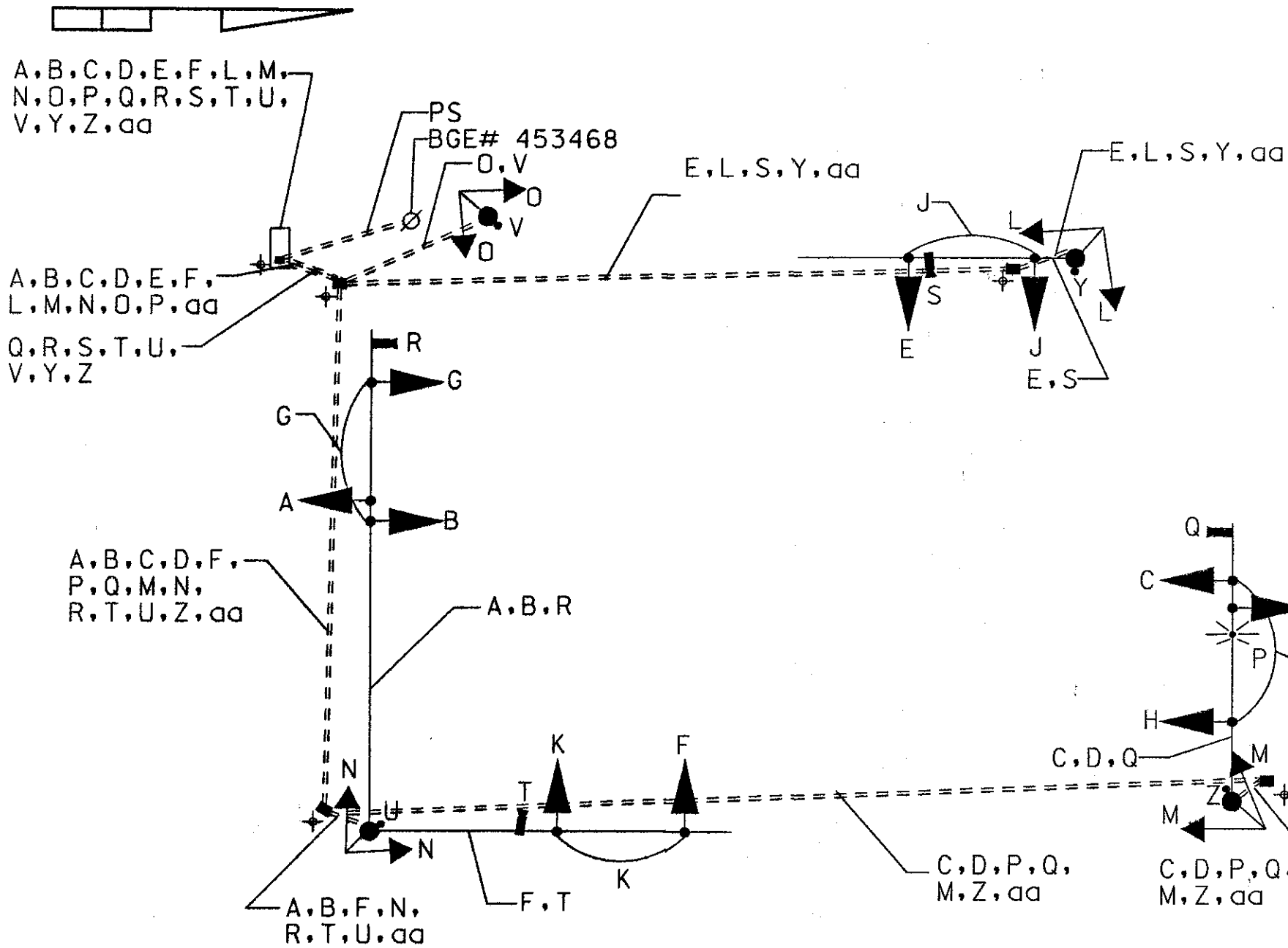
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	4
585620	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	600
585624	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	150
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	11
813015	INSTALL OVERHEAD SIGN	SF	70
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	400
805135	3 INCH SCHED. 80 RIGID PVC CONDUIT-TRENCHED	LF	100
805140	4 INCH SCHED. 80 RIGID PVC CONDUIT-TRENCHED	LF	40
805155	4 INCH SCHED. 80 RIGID PVC CONDUIT-SLOTTED	LF	350
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS, 60 AMPS	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4
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
800000	10 FOOT BREAKAWAY PEDESTAL POLE(PAINTED BLACK)	EA	1
800000	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM(PAINTED BLACK)	EA	2
800000	STEEL POLE WITH A TWIN 50/70 FOOT MAST ARM(PAINTED BLACK)	EA	1
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE WITH PHOTOCCELL	EA	1
837001	GROUND ROD - 3 /4 INCH DIA. X 10 FOOT LENGTH	EA	5
860270	8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	6
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	32
860278	12 PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	EA	8
860282	12 INCH PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT	EA	8
860292	CUT,CLEAN,GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	3
861105	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	500
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	650
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1200
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	230
865001	PUSHBUTTON AND SIGN (PUSHBUTTON TO CROSS YORK ROAD)	EA	4
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1

C. MATERIALS TO BE REMOVED BY THE CONTRACTOR.

SHA 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.

WIRING DIAGRAM



- KEY
- A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - G } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - U } 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - P } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
 - Q } VIDEO DETECTION CABLE (500 FT. LEAD IN CABLE)
 - S } VIDEO DETECTION CABLE (250 FT. LEAD IN CABLE)
 - aa } 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
PHASE 1 AND 5	+GR	+GR	R	+GR	+GR	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																		
PHASE 1 AND 6	+GG	+GG	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	+YG	+YG	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	+GG	+GG	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	+YG	+YG	G	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FLDW	FLDW	FLDW	FLDW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FLDW	DW	DW	FLDW
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 8 ALT	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	WK	WK	DW
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	FLDW	FLDW	DW
8 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

TSP-02



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN

MD 45 (YORK ROAD) AT YORK ROAD PLAZA /
DRUMCASTLE CENTER



SABRA, WANG & ASSOCIATES, INC.
1604 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-6564
WWW.SABRA-WANG.COM

DRAWN BY: S. DU
CHECKED BY: K. RINKER
SCALE: 1" = 20'
DATE: MARCH 2003

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. BA312584-5194
COUNTY: BALTIMORE
LOG MILE: 03004500.10

TS NO. 4231
T.I.M.S. NO. 0963

SHEET NO.

OF