PROJECT DESCRIPTION
GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 AT THE I-695 OUTER LOOP OFF RAMP IN BALTIMORE COUNTY

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A SIZE 6 BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED SYSTEM MODE UTILIZING 4 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: (301) 321-2781
MR. DAVE RAMSEY, ASSISTANT DISTRICT ENGINEER- MAINTANCE
PHONE: (410) 321-2761
MR. JOSEPH D. McMAHON, ASSISTANT DISTRICT ENGINEER- UTILITY
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
971017	SYSTEM READY CABINET SIZE 6 WITH VIDEO INTERFACE EQUIPMENT AND RACK MOUNTED AMPLIFIERS	EA	1
973023	FLAT SHEET ALUMINUM SIGNS, (BLUE OR GREEN)	SF	195
	D3-2 (VAR.X16")	EA	5
	W3-3 (36"X36")	EA	2
	GUIDE SHIELD ASSEMBLY (24"X51")	EA	1
	GUIDE SHIELD ASSEMBLY (36"X75")	EA	1
	R3-2 (30"x30")	EA	2
	R3-5 (L) (30"X36")	EA	2
	R10-12 (36"X42")	EA	1

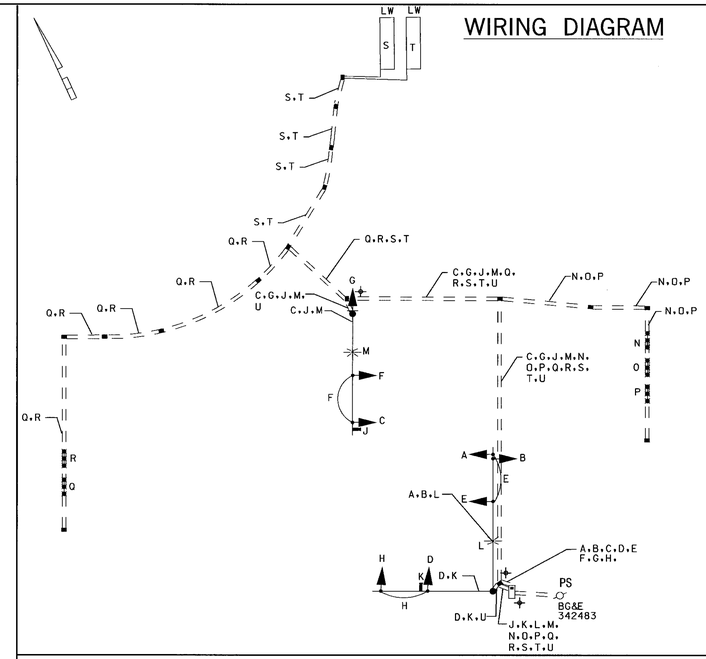
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	EA	3
585624	24" WHITE HEAT APPL. THERMO. PAVEMENT MARK	LF	115
860270	8" SIGNAL HEAD SECTION	EA	3
860272	12" SIGNAL HEAD SECTION	EA	26
585620	12" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	EA	350
866103	15' LIGHTING ARM FOR SIGNAL STRUCTURE	EA	1
866104	20' LIGHTING ARM FOR SIGNAL STRUCTURE	EA	1
831010	250 WATT HPSV LUMINAIRE W/PHOTOCWELL	EA	2
818050	MAST ARM POLE AND 50' AND 60' TWIN MAST ARM	EA	1
818036	MAST ARM POLE AND 50' MAST ARM	EA	1
805125	2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	500
805140	4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	143
805135	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	450
805150	3" SCHED. 80 PVC CONDUIT - SLOTTED	LF	260
805155	4" SCHED. 80 PVC CONDUIT - SLOTTED	LF	117
861116	2 COND., NO. 12 AWG TRAY CABLE	LF	259
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	10
832020	NO. 6 AWG STANDARD BARE COPPER GROUND WIRE	LF	210
811001	HANDHOLE	EA	16
810601	NONINVASIVE DETECTOR 500 FT. LEAD IN CABLE	EA	5
801607	INSTALL OVERHEAD SIGN	SF	195
800000	INSTALL GROUND MOUNT SIGN	EA	2
837001	GROUND ROD	EA	3
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT, 120/240 VOLTS, 60 AMPS	EA	1
832017	1 COND., NO. 4 AWG TYPE USE 600V	LF	80
861104	2 COND., NO. 14 AWG ALUM. SHIELDED ELECT. CABLE	LF	2000
861107	5 COND., NO. 14 AWG ELECT. CABLE	LF	350
861108	7 COND., NO. 14 AWG ELECT. CABLE	LF	500
871202	INSTALL CONTROLLER AND CABINET - BASE MT.	EA	1
816001	VIDEO DETECTOR CAMERA	EA	2
816005	PRE-MANUFACTURED CABLE CAMERA TO CONTROLLER (250' LENGTH CABLE)	EA	2
812002	6"X6" WOOD POST	LF	40
862101	LOOP WIRE ENCASED IN FLEXBLE TUBING (NO.14 AWG)	LF	280
862102	SAW CUT FOR SIGNAL (LOOP DETECTOR)	EA	315

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

NONE

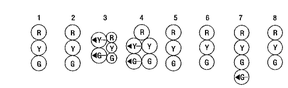
WIRING DIAGRAM



KEY

A B C D	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E F G H	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
L M	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
S T	2 CONDUCTOR CABLE- ALUMINUM SHIELDED (NO. 14 AWG)
J K	VIDEO DETECTION CABLE
N O P Q R	NON-INVASIVE LOOP DETECTOR CABLE LEAD-IN
U	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
LW	LOOPWIRE
PS	POWER SERVICE UNDERGROUND
✦	GROUND ROD

PHASE CHART



	1	2	3	4	5	6	7	8
PHASE 2 AND 5	R	R	G/G	G/G	G	R	R	R
2 AND 5 CHANGE	R	R	Y/G	Y/G	Y	R	R	R
PHASE 2 AND 6	G	G	G	G	G	R	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R

SABRA, WANG & ASSOCIATES, INC.
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WWW.SABRA-WANG.COM

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

MD 26 (LIBERTY ROAD) AT I-695 RAMP 8

DRAWN BY:	S. SMITH	F.A.P. NO.		TS NO.	SHEET NO.
CHECKED BY:	S. RENZI	S.H.A. NO.	BA3795172		84 OF 107
SCALE:	1" = 20'	COUNTY:	BALTIMORE	T.I.M.S. NO. E541	
DATE:	MAY, 2002	LOG MILE:			

RLE:r:\00-47task19\dwg\signals\641gp02.dgn