

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE CONSTRUCTION OF A TEMPORARY SIGNAL AT THE INTERSECTION OF MD 24 AND SB I-95 OFF RAMP (RAMP J) / ON RAMP (RAMP K) IN HARFORD COUNTY FOR MAINTENANCE OF TRAFFIC DURING STAGE 3C.

INTERSECTION OPERATION

A NEW BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS INTERSECTION. THE INTERSECTION SHALL OPERATE IN A SEMI-ACTUATED MODE USING 4 NEMA PHASES. VIDEO DETECTION SHALL BE PLACED INTO OPERATION. PRIOR TO COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-398-7631. TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND TELEPHONE NUMBER.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT 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
MR. MICHAEL PASQUARIELLO, UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS CHIEF
PHONE: (410) 787-7650
MR. EUGENE BAILEY, SIGN OPERATIONS MANAGER
PHONE: (410) 787-7676

MS. ROXANE MUKAI, TRAFFIC MANAGER
MARYLAND TRANSPORTATION AUTHORITY
PHONE: (410) 288-8484

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	BASE MOUNTED (SIZE 6) CABINET AND CONTROLLER (MSHA SPECIFICATION)	EA	1
973023	WITH VIDEO DETECTION INTERFACE EQUIPMENT FOR 1-4 CAMERAS	SF	55
	SHEET ALUMINUM SIGNS CONSISTING OF		
	R3-5(L) (30"x36") SPAN WIRE MOUNT	EA	2
	R3-5(R) (30"x36") SPAN WIRE MOUNT	EA	1
	W3-3 (48"x48") GROUND MOUNT	EA	2
	D95-25 (24"x24") GROUND MOUNT	EA	2

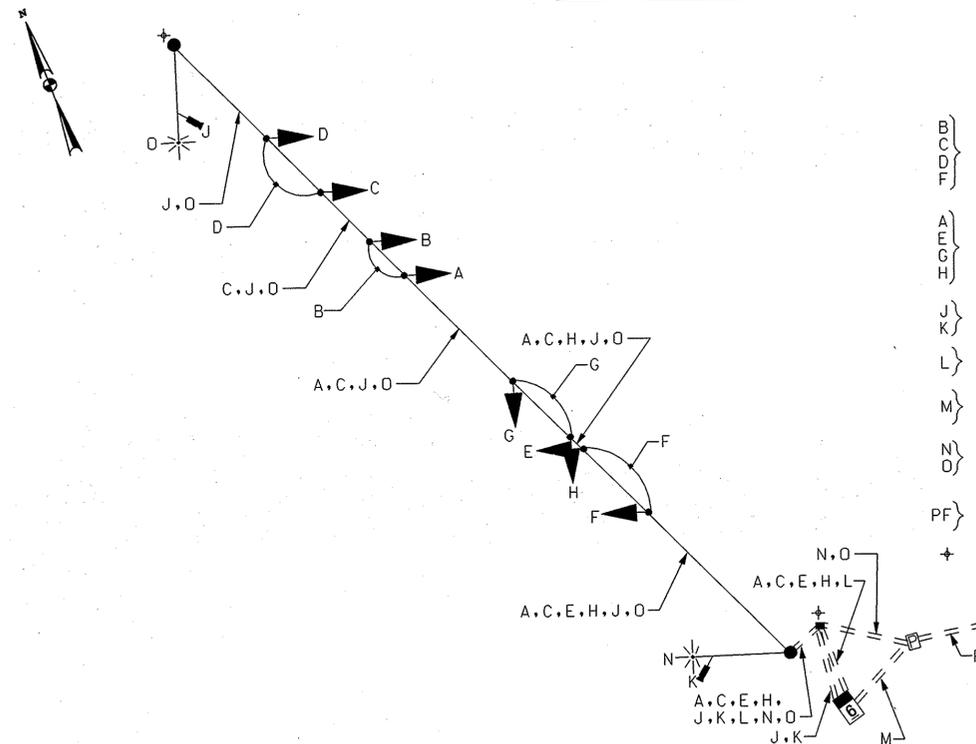
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKING	LF	90
203030	TEST PIT EXCAVATION	CY	2
800000	CONTROL CABLE 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
800000	BACK GUY ANCHOR ASSEMBLY	EA	2
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	12
801106	WOOD SIGN SUPPORT 4 INCH X 6 INCH	LF	84
801607	INSTALL SHEET ALUMINUM SIGN	SF	40
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	30
805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	10
805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	30
807202	METERED SERVICE PEDESTAL	EA	1
811001	ELECTRICAL HANDHOLE	EA	1
813015	INSTALL OVERHEAD SIGN	SF	15
816001	VIDEO DETECTION CAMERA	EA	2
816010	CONTROL CABLE 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
818009	14" X 32' STRAIN POLE (2 PLY)	EA	2
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	2
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	2
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	26
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	90
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	700
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	420
861117	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)	LF	30
866104	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	2
869101	STEEL SPAN WIRE - 1/4 INCH DIA.	LF	250
869102	STEEL SPAN WIRE - 3/8 INCH DIA.	LF	250
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLY DRIVE, HANOVER, MARYLAND 21076.

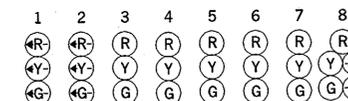
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
	NONE		

WIRING DIAGRAM



- KEY**
- B } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - C } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - D } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - A } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - E } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - G } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - H } 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - J } VIDEO DETECTION CABLE
 - K } VIDEO DETECTION CABLE
 - L } 1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
 - M } 3 WIRE 1 CONDUCTOR (NO. 4 AWG THHN/THWN)
 - N } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
 - O } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
 - PF } POWER SERVICE UNDERGROUND (BY OTHERS)
 - + } GROUND ROD

PHASE CHART



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

MOT STAGE:3C

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 24 AT SOUTHBOUND I-95 OFF-RAMP (RAMP J) ON-RAMP (RAMP K)
IMPROVEMENTS TO I-95 AND MD 24 INTERCHANGE
ABINGDON, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE 06/20/06 CONTRACT NO. KH-271-000-002

DESIGNED BY A. MOHAMMEDSDU COUNTY HARFORD
DRAWN BY M. RAFFLE LOGMILE _____
CHECKED BY K. RINKER TMS NO. _____
FAP NO. NONE TOD NO. _____

TS NO. _____ DRAWING **PSG** OF **N003** SHEET NO. 670 OF 889

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