PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO A TRAFFIC SIGNAL AT THE INTERSECTION OF MD 115 (MUNCASTER MILL ROAD) AND AVERY ROAD 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:

PROJECT CONTACTS:

MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7318
MR. DENNIS MCMAHON, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7336
MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER- MAINTENANCE
PHONE: (301) 513-7304
MR. AUGIE REBISH, UTILITY ENGINEER
PHONE: (301) 513-7350
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. BOBBY GONZALES, TRAFFIC ENGINEER - MONTGOMERY COUNTY TRANSPORTATION MANAGEMENT CENTER
PHONE: (240) 777-8761

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 2 2100 CONTROLLER, SSM 12 E CONFLICT MONITOR, POWER SUPPLY FOR RACK MOUNTED DETECTION, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS AND VIDEO DETECTION INTERFACE EQUIPMENT	EA	1
973023	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	SF	15
	D-3(1) (VAR.x16") MAST ARM MOUNT	EA	1

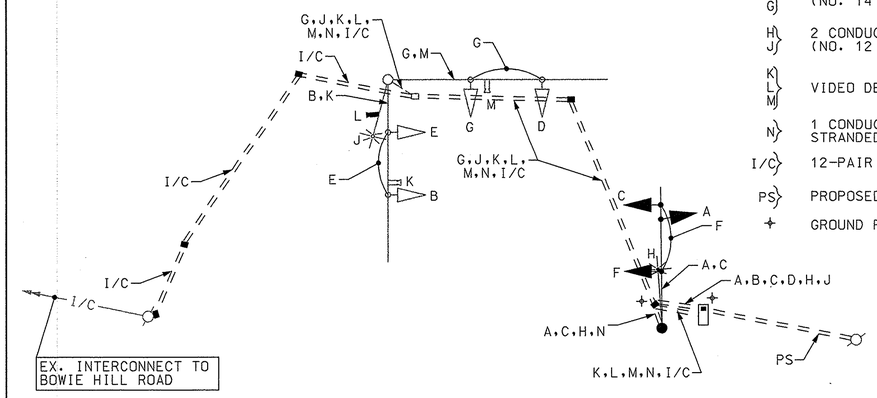
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	2
585462	REMOVE EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH	LF	50
585624	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	70
800000	REMOVE AND DISPOSE OF EXISTING EQUIPMENT	LS	1
800000	FURNISH AND INSTALL POLE MOUNTED SPLICE CABINET	EA	1
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	5
801607	INSTALL SHEET ALUMINUM SIGN	SF	15
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	150
805032	3 INCH U-GUARD - PVC RISER	LF	25
805115	3 INCH SCHED. 80 PVC CONDUIT-BORED	LF	65
805118	4 INCH SCHED. 80 PVC CONDUIT-BORED	LF	80
805135	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	370
805140	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	25
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	1
816005	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
818021	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM	EA	1
822002	12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)	LF	400
831010	250 WATT HPS LAMP AND LUMINAIRE	EA	1
837001	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	2
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	11
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	60
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	570
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	250
861117	ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)	LF	130
866104	15 FT LIGHT ARM/SIGNAL POLE	EA	1
871202	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. CONTACT ED RODENHIZER AT (410) 787-7650 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	EA	1

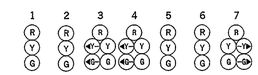
WIRING DIAGRAM



KEY

A, B, C, D	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E, F, G	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
H, J	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
K, L, M	VIDEO DETECTION CABLE
N	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
I/C	12-PAIR INTERCONNECT CABLE
PS	PROPOSED POWER SERVICE
+	GROUND ROD

PHASE CHART



PHASE 2 AND 5	R	R	←G/G	←G/G	G	R	R/G→
2 AND 5 CHANGE	R	R	←Y/G	←Y/G	G	R	R/Y→
PHASE 2 AND 6	G	G	G	G	G	R	R
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R
PHASE 4	R	R	R	R	R	G	G
4 CHANGE	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R

ULTIMATE

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 115 (MUNCASTER MILL ROAD) AT AVERY ROAD

DRAWN BY: C.FLEMING	F.A.P. NO.		TS NO. TS-4223	SHEET NO.
CHECKED BY: S.RENZI/J.WEAVER	S.H.A. NO. M0910B21			
SCALE: NOT TO SCALE	COUNTY: MONTGOMERY		T.I.M.S. NO. F-489	44 OF 51
DATE: DECEMBER, 2002	LOG MILE: 15011503.68			

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