PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A TRAFFIC SIGNAL AT THE INTERSECTION OF MD 586 (VEIRS MILL ROAD) AT GRIDLEY 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 6 NEMA PHASES.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE:

PROJECT CONTACTS:

MR. LEE STARKLOFF, ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301) 513-7300
MR. DENNIS McMAHON, ASSISTANT DISTRICT ENGINEER-CONSTRUCTION
PHONE: (301) 513-7300
MR. RALEIGH MEDLEY, ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301) 513-7300
MR. AUGIE REBISH, ASSISTANT DISTRICT ENGINEER-UTILITY
PHONE: (310) 513-7300
MR. RICHARD L. DAFF, Sr., CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. BOBBY GONZALES, TRAFFIC ENGINEER MCDPWT
PHONE: (240) 777-2190

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR USING THE SHA STANDARD PLATES FOR TRAFFIC CONTROL.

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 VIDEO INTERFACE EQUIPMENT, SSM 12 E CONFLICT MONITOR, POWER SUPPLY FOR RACK MOUNTED DETECTION, LAU PANEL AND RELAY PACKAGE WIRED TO MONTGOMERY COUNTY SPECIFICATIONS.	EA	1
973023	FLAT SHEET ALUMINUM SIGNS, (BLUE OR GREEN)	SF	186
	D-3(1) DUAL FACE (VAR.X16")	EA	4
	R10-12 (36"X42")	EA	2
	R3-5 (30"x36")	EA	2
	R3-6 (30"x36")	EA	1
	R3-6 MOD (30"x36")	EA	1
	GUIDE SHIELD ASSEMBLY (30"X51")	EA	2
	GUIDE SHIELD ASSEMBLY (48"X75")	EA	2
	R10-4(1) MOD (12"X9")	EA	2

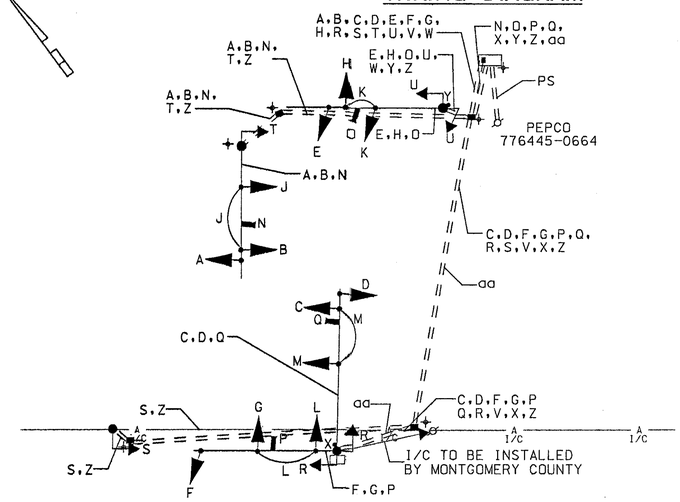
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
203030	TEST PIT EXCAVATION	CY	4
585452	24" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	155
585620	12" WHITE HEAT APPL. THERMO. PAVEMENT MARK.	LF	440
860272	12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	48
800000	SPECIAL 'T' POLE WITH TWIN 60' AND 50' MAST ARMS	EA	1
800000	SPECIAL 'T' POLE WITH A SINGLE 50' MAST ARM	EA	1
818036	STEEL POLE WITH A SINGLE 50' MAST ARM	EA	1
805125	2" SCHED. 80 PVC CONDUIT - TRENCHED	LF	50
805145	2" SCHED. 80 PVC CONDUIT - SLOTTED	LF	160
805140	4" SCHED. 80 PVC CONDUIT - TRENCHED	LF	40
805135	3" SCHED. 80 PVC CONDUIT - TRENCHED	LF	33
805155	4" SCHED. 80 PVC CONDUIT - SLOTTED	LF	356
801004	CONCRETE FOR SIGNAL FOUNDATIONS	CY	15
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	466
811001	HANDHOLE	EA	4
813105	INSTALL OVERHEAD SIGN	SF	186
837001	GROUND ROD 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	5
807400	ELEC. UTILITY SER. EQUIP. 120/240V 60 AMP	EA	1
861117	3 WIRE, NO. 4 AWG ELECT. CABLE POWER SERVICE	LF	55
861105	2-COND., NO. 14 AWG ELECT. CABLE	LF	325
861106	3-COND., NO. 14 AWG ELECT. CABLE	LF	200
861107	5-COND., NO. 14 AWG ELECT. CABLE	LF	400
861108	7-COND., NO. 14 AWG ELECT. CABLE	LF	610
871202	INSTALL CONTROLLER AND CABINET - BASE MT	EA	1
816001	VIDEO DETECTION CAMERA	EA	4
816010	CONTROL CABLE FROM CAMERA TO CONTROLLER (500' LENGTH CABLE)	EA	4
818004	10' BREAKAWAY PEDESTAL POLE	EA	1
865001	PUSHBUTTON AND SIGN	EA	2
860278	12" PEDESTRIAN SIGNAL HEAD SECTION POLE MT.	EA	10
860282	12" PEDESTRIAN SIGNAL HEAD SECTION PED POLE MT.	EA	2
800000	REMOVE AND DISPOSE EXIST. SIGNAL EQUIP.	LS	1
860292	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	3

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

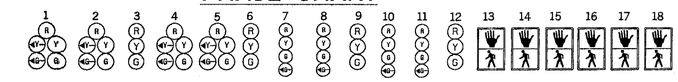
WIRING DIAGRAM



KEY

A B C D E F G H	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
J K L M R U	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
N O P Q	VIDEO DETECTION CABLE 500 FT LEAD IN CABLE
S T	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
X Y	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Z	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
aa	12 PAIR INTERCONNECT CABLE
PS	POWER SERVICE UNDERGROUND 3 WIRE 1 CONDUCTOR # 4 AWG
+	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	←G/R	←G/R	R	←G/R	←G/R	R	R	R	R	R	R	R	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	←G/G	←G/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←Y/G	←Y/G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←G/G	←G/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←Y/G	←Y/G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	←G/G	←G/G	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	R	R	R	R	R	R	←G/G	←G/G	G	R	R	R	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	←G/G	←G/G	G	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 3 CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	←G/G	←G/G	G	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	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	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

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

MD 586 (VEIRS MILL ROAD) AND GRIDLEY ROAD

DRAWN BY:	S. SMITH	F.A.P. NO.	SEE TITLE SHEET	TS NO. 4235A	SHEET NO.
CHECKED BY:	K. RINIKER	S.H.A. NO.	M08175171		
SCALE:	NTS	COUNTY:	MONTGOMERY	T.I.M.S. NO. E905	OF
DATE:	MARCH 2003	LOG MILE:	15058603.36		

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