

**PROJECT DESCRIPTION
GENERAL**

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF A TEMPORARY TRAFFIC SIGNAL FOR MOT PHASE 2 AT THE INTERSECTION OF MD 404 (SHORE HIGHWAY) AND MD 16 (HARMONY ROAD)/DOUBLE HILLS ROAD IN CAROLINE COUNTY.

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A POLE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A SEMI-ACTUATED MODE USING 4 NEMA PHASES. A 40 FT. WOOD POLE SHALL BE INSTALLED AT THIS LOCATION FOR A TEMPORARY TRAFFIC SIGNAL.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. ROBERT L. KIEL, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 810-3240
MR. JEFF AMORIELLO, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 810-3270
MR. TERRY O. WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 810-3250
MR. BARRY CLOTHIER, UTILITY ENGINEER
PHONE: (410) 810-3275
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
900000	POLE MOUNTED (SIZE-5) CABINET AND CONTROLLER WITH VIDED DETECTION INTERFACE EQUIPMENT	EA	1

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

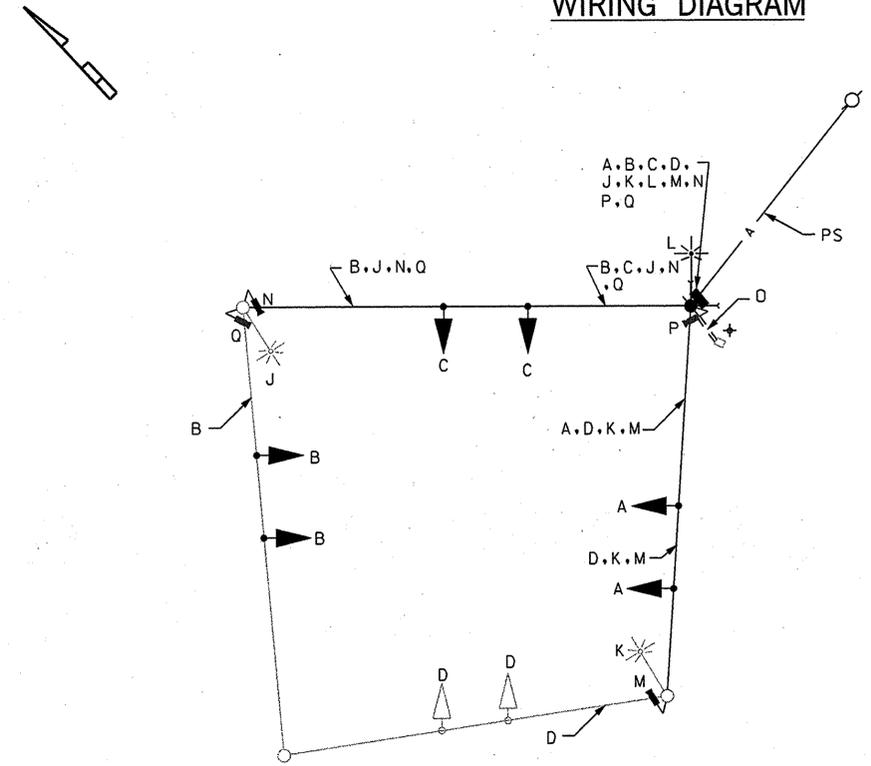
CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY
585624	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	70
800000	REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT	LS	1
800000	40 FOOT WOOD POLE - CLASS II	EA	1
800000	RELOCATE EXISTING TRAFFIC SIGNAL HEAD (PER HEAD)	EA	2
800000	BACKGUY AND ANCHOR ASSEMBLIES	EA	2
800000	20 FOOT LIGHTING ARM ON WOOD POLE	EA	1
800000	2 INCH WEATHEAD	EA	1
805029	2 INCH U-GUARD-PVC RISER	LF	30
805032	3 INCH U-GUARD-PVC RISER	LF	30
805050	3 INCH WEATHEAD	EA	1
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	20
805125	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	20
811002	REMOVE ELECTRICAL HANDHOLE	EA	8
816001	VIDEO DETECTION CAMERA	EA	4
816005	CONTROL CABLE, 250 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	4
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	1
837001	GROUND ROD - 3/4 IN. DIA. X 10 FOOT LENGTH	EA	1
860272	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	12
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	800
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TRAY CABLE	LF	350
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	200
871201	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	1

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. 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

NOTE: EXISTING VIDED DETECTION CAMERAS UPON REMOVAL SHALL BECOME PROPERTY OF SHA.

WIRING DIAGRAM



- KEY**
- A, B, C, D } 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
 - J, K, L } 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
 - M, N, P, Q } VIDED DETECTION CABLE
 - O } 1-CONDUCTOR (NO.6 AWG) STRAINED COPPER GROUNDWIRE
 - PS } POWER SERVICE OVERHEAD (BY OTHERS)
 - + } GROUND ROD

NOTE:
STREET LIGHT LUMINAIRE "L" TO BE OPERATIONAL IN PHASE 3 MOT.

PHASE CHART

	1	2	3	4	5	6	7	8	
	(R)								
	(Y)								
	(G)								
PHASE 2 AND 6	G	G	G	G	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	→
PHASE 4 AND 8	R	R	R	R	G	G	G	G	↑
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	↓
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	±

MOT PHASE 2

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

**MD 404 @ MD 16/
DOUBLE HILLS ROAD**

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE APRIL 2005 CONTRACT NO. C03215270

DESIGNED BY C. FLEMING COUNTY CAROLINE
DRAWN BY C. FLEMING LOGMILE 05001612.76
CHECKED BY S. RENZI T.I.M.S. NO.
F.A.P. NO. TOD NO.

DRAWING NO. TS-1378C SHEET NO. OF

001 6/1/06 GREENLINE REVISION 1

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DRILL HOLES