

PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE RECONSTRUCTION OF AN EXISTING TRAFFIC SIGNAL AT MD 2-4 (SOLOMON'S ISLAND ROAD) AND MD 263 (PLUM POINT RD) IN CALVERT COUNTY. THE SIGNAL WILL BE RECONSTRUCTED IN THREE PHASES. THE FIRST TWO PHASES WILL BE MOT PHASES, UTILIZING EXISTING GEOMETRICS WITH PARTIAL TEMPORARY EQUIPMENT. THE LAST PHASE WILL BE FINAL GEOMETRICS WITH FINAL SIGNAL EQUIPMENT BEING OPERATIONAL AND THEN REMOVING ALL EXISTING EQUIPMENT NO LONGER NEEDED. MD 2-4 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

1. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FOUR PHASE, FULLY TRAFFIC ACTUATED MODE WITH MD 2-4 APPROACHES OPERATING CONCURRENTLY AND MD 263 / SHOPPING PLAZA ENTRANCE APPROACH'S OPERATING SEPARATELY. THERE WILL BE AN E/P LEFT TURN PHASE FOR MD 2-4 SOUTHBOUND TRAFFIC. THE EXISTING MD 2-4 NORTHBOUND LEFT TURN WILL BE ELIMINATED.

CONTROLLER REQUIREMENTS:

AN EXISTING FULLY - TRAFFIC - ACTUATED - EIGHT - PHASE TRAFFIC SIGNAL CONTROLLER IN A BASE - MOUNTED SYSTEM READY CABINET WILL UTILIZED DURING THIS MOT PHASE.

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST

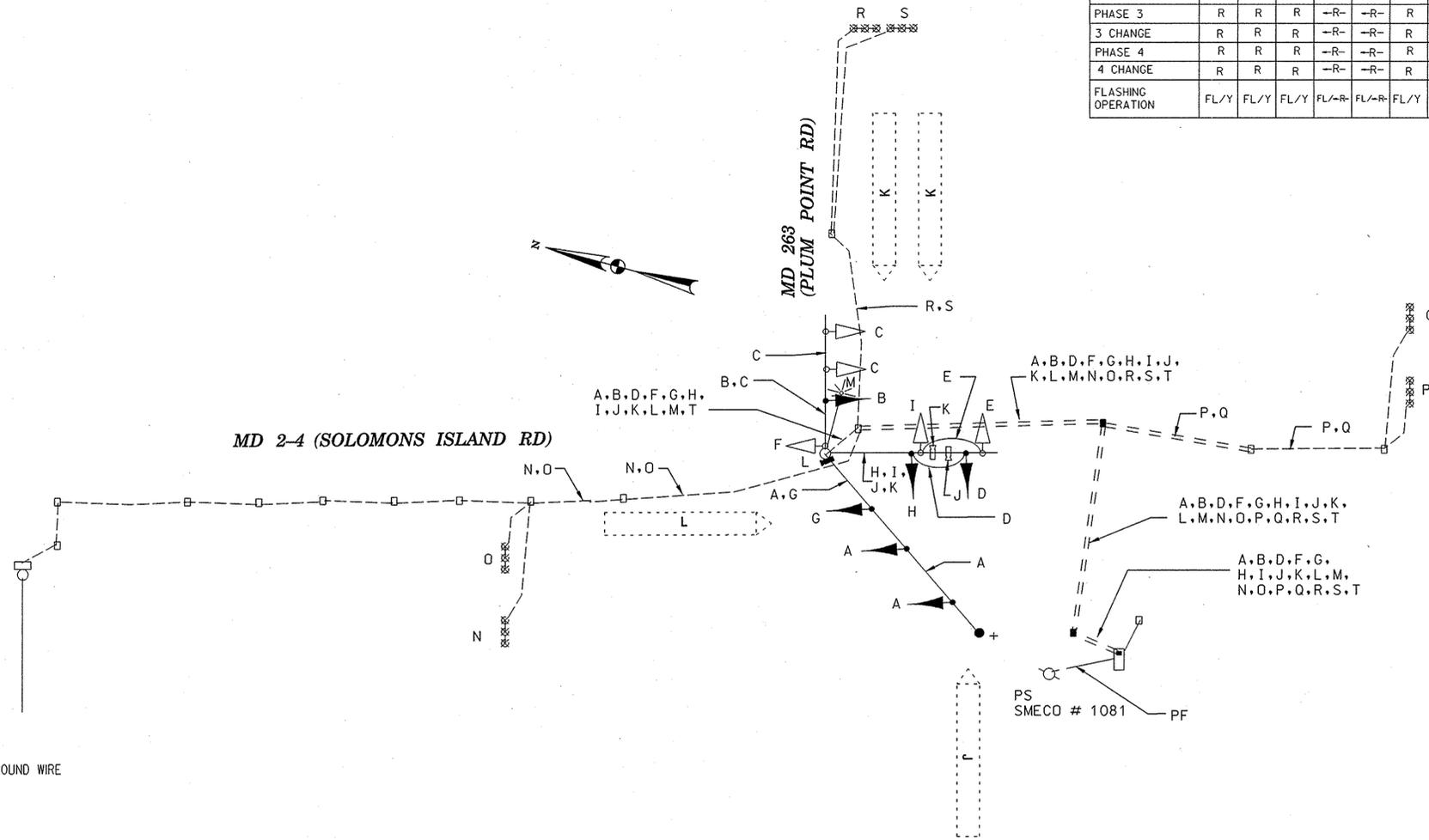
A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR:

CATAGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
900000	900000	34 S.F.	FURNISH SHEET ALUMINUM SIGNS
		- 1 EA	D-3(1) SIGN 96"x16"
		- 1 EA	R10-12 SIGN 36"x42"
		- 2 EA	R-3-2 SIGN 30"x30"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR:

CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500	104	L.S.	MAINTENANCE OF TRAFFIC
203030	205	10 C.Y.	TEST PIT EXCAVATION
802501	810 805	175 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
813015	813	33 S.F.	INSTALL OVERHEAD SIGN.
800000	818	1 EA.	FURNISH AND INSTALL WOOD POLE.
837001	804	1 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH.
860272	814	23 EA.	FURNISH AND INSTALL 12 IN. L.E.D. VEHICULAR TRAFFIC SIGNAL HEAD SECTION BLACK FACED.
861107	810	550 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG).
861108	810	500 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG).
800000		1 EA.	FURNISH AND INSTALL VIDEO DETECTION CAMERA.
800000		1 EA.	FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE.
811001	811	2 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
870163	805	200 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - TRENCHED
870167	805	185 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
860265	814	1 EA.	RELOCATE EXISTING SIGNAL HEAD SECTION.

MD 2-4 (SOLOMONS ISLAND RD)



WIRING DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13
PHASE 2+5	R	R	R	-G-	-G-	G	G	R	R	R	R	FL/Y	FL/Y
2+5 CHANGE	R	R	R	-Y-	-Y-	G	G	R	R	R	R	FL/Y	FL/Y
PHASE 2+6	G	G	G	-R-	-R-	G	G	R	R	R	R	FL/Y	FL/Y
2+6 CHANGE	Y	Y	Y	-R-	-R-	Y	Y	R	R	R	R	FL/Y	FL/Y
PHASE 3	R	R	R	-R-	-R-	R	R	-G-	G	R	R	FL/Y	FL/Y
3 CHANGE	R	R	R	-R-	-R-	R	R	-Y-	Y	R	R	FL/Y	FL/Y
PHASE 4	R	R	R	-R-	-R-	R	R	R	R	-G-	G	FL/Y	FL/Y
4 CHANGE	R	R	R	-R-	-R-	R	R	R	R	Y	Y	FL/Y	FL/Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/Y	FL/Y

WIRING KEY

- A-G) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- H-I) 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- J-L) VIDEO CABLE FOR CAMERA
- J-L) VIDEO DETECTION ZONE
- M) 2-CONDUCTOR TREY CABLE (NO. 12 A.W.G.)
- N-S) PROBES 500 FT LEAD
- T) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- PF - POWER FEED 3-CONDUCTOR (NO. 14 AWG)
- PS - POWER SOURCE
- + - 3/4 IN. x 10 FT. GROUND ROD

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1003

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1002

MR. MARK COBLENTZ
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 841-1004

MR. JOHN S. MAYS
UTILITY ENGINEER
PHONE: (410) 841-1005

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630



APPROVALS	REVISIONS	TRAFFIC MOT SIGNAL PHASE 1 - STAGE 1
<p>TEAM LEADER</p> <p>ASSY. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>(N) 062006 RECONSTRUCT SIGNAL DUE TO GEOMETRIC UPGRADES SHA CA3176176</p> <p>(M) 072002 INSTALL H.I.B. FOR NB MD 2-4 & ADD THIRD SIGNAL HEAD FOR NB MD 2-4 AT INTERSECTION SHA.X10166485</p> <p>(L) 082001 UPGRADE DETECTION SHA CA4866177</p>	<p>SCALE 1"=20' DATE 04/07/1989 CONTRACT NO. _____</p> <p>DESIGNED BY S. RAMSEY COUNTY CALVERT COUNTY</p> <p>DRAWN BY S. RAMSEY LOGMILE 04002023.36</p> <p>CHECKED BY D. DODA TMS NO. H312</p> <p>FAP NO. SEE TITLE SHEET TOD NO. _____</p> <p>TS NO. TS-2533 DRAWING - 2 OF 2 SHEET NO. 14 OF 25</p>

BY: \$USER\$NAME\$