

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 7D (MAIN STREET) AND MD 268 (NORTH STREET) IN CECIL COUNTY, MD 7D (MAIN STREET) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

I. NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA (2) TWO-PHASE FULLY-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND MARYLAND 268 OPERATING ALONE, EASTBOUND MD 7D APPROACH WILL ALSO OPERATE ALONE, PEDESTRIAN PHASING WILL BE PROVIDED AND WILL OPERATE CONCURRENTLY TO CROSS MD 268 (NORTH STREET) AND ACTUATED TO CROSS THE MAIN LINE, MD 7D (MAIN STREET).

CONTROLLER REQUIREMENTS:

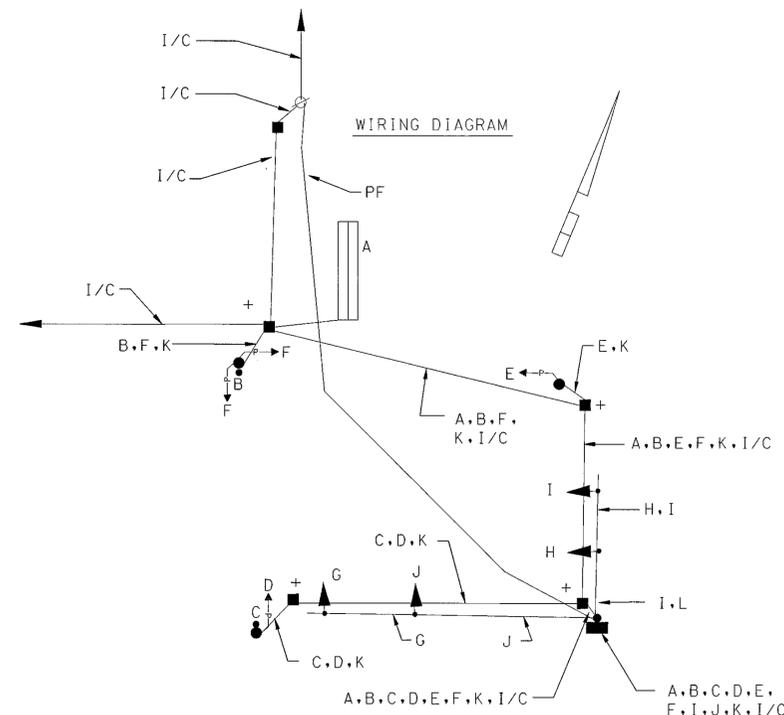
A FULLY - TRAFFIC - ACTUATED - EIGHT - PHASE TRAFFIC SIGNAL CONTROLLER IN A POLE - MOUNTED SYSTEM READY CABINET WITH ONE LOOP DETECTOR TO BE INSTALLED AT THIS INTERSECTION. THE SYSTEM MASTER WILL BE LOCATED AT THE INTERSECTION OF MD 7D (MAIN ST.) AND MD 213 (BRIDGE STREET).

SPECIAL NOTE:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

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

CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
860270	814	6 EA.	FURNISH AND INSTALL 8 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION (BLACK FACED)
862101	810	425 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
862102	810	110 L.F.	FURNISH AND INSTALL SAWCUT FOR SIGNAL (LOOP DETECTOR)
860282	814	8 EA.	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION PEDESTAL POLE MOUNT
860292		2 EA.	CUT CLEAN AND GALVANIZE AND CAP SIGNAL STRUCTURE.
861104	810	130 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (AL SHIELDED)
861105	810	150 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
861106	810	120 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 CONDUCTOR (NO.14 AWG)
861107	810	140 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
861108	810	125 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
861117	810	150 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 3 WIRE (NO. 4 AWG)
865201	817	2 EA.	INSTALL PUSH BUTTON AND SIGN
871201	805	1 EA.	INSTALL CONTROLLER AND CABINET - POLE MOUNTED
866205	818	1 EA.	FURNISH AND INSTALL 27 FT STEEL MAST ARM POLE W/ TWIN 50 FT AND 50 FT MAST ARMS.



C. SHA FORCES TO REMOVE CONTROLLER AND ALL AUXILIARY EQUIPMENT. CONTROLLER CABINET AND ALL OTHER EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

QUANTITY	DESCRIPTION
1 EA.	POLE MOUNTED CONTROLLER AND CABINET.

EQUIPMENT LIST

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

CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
900000	900000	1 EA.	FURNISH NEMA 5 POLE MOUNTED CABINET AND CONTROLLER WITH A CABINET BASE PLATE ADDED TO THE BOTTOM OF THE CABINET
900000	900000	1 EA.	FURNISH FOUR CHANNEL RACK MOUNTED LOOP DETECTOR AMPLIFIER
900000	900000	48.50 S.F.	FURNISH SHEET ALUMINUM SIGNS
		- 1 EA.	R3-1R SIGN 24" x 24"
		- 1 EA.	R3-1R SIGN 30" x 30"
		- 2 EA.	M95-1(MOD) SIGN 36" x 60"
		- 1 EA.	M3-2 SIGN 24" x 12"
		- 1 EA.	M1-5 SIGN 24" x 24"
		- 1 EA.	M6-1 SIGN 21" x 15"

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

CATEGORY CODE NO.	SPEC. NO.	QUANTITY	DESCRIPTION
120500		L.S.	MAINTENANCE OF TRAFFIC
203030	205	4 C.Y.	TEST PIT
585620	SP-555	110 L.F.	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE)
585624	SP-555	35 L.F.	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK)
800000		L.S.	REMOVAL OF EQUIPMENT TO BE SALVAGED.
805011	805	15 L.F.	FURNISH AND INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED SLEEVE.
801004	801	7 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
801106	801	40 L.F.	FURNISH AND INSTALL 4 INCH X 6 INCH WOOD SIGN SUPPORTS.
802501	810	200 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
870120	805	200 L.F.	FURNISH AND INSTALL 3 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
870123	805	175 L.F.	FURNISH AND INSTALL 4 IN. DIA. PVC ELECTRICAL CONDUIT SCHEDULE 80 - BORED
811001	811	4 EA.	FURNISH AND INSTALL ELECTRICAL HANDHOLE.
813014	813	12.25 S.F.	INSTALL GROUND MOUNTED SIGN.
813015	813	36.25 S.F.	INSTALL OVERHEAD SIGN.
818010	818	3 EA.	FURNISH AND INSTALL 10 FT. BREAKAWAY PEDESTAL POLE.
837001	804	4 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 IN. DIA. X 10 FT. LENGTH.
838003	807	1 EA.	FURNISH AND INSTALL CONTROL AND DISTRIBUTION (120/240, 1 PHASE 3 WIRE SYSTEM).

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #2 ARE AS FOLLOWS:

MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 778-3061

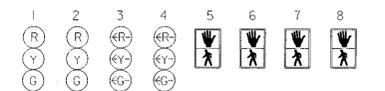
MR. BARRY CLOTHIER
UTILITY ENGINEER
PHONE: (410) 778-3061

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

THE POWER COMPANY REPRESENTATIVE IS:
CONECTIV
MR. EUGENE MESSICK
PHONE: (410) 758-4101

WIRING KEY

A } 2-CONDUCTOR ELECTRICAL CABLE (AL. SHIELDED)	K } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
B,C } 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	I,J } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D,E } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	PF - UNDERGROUND POWER FEED (NO. 4 A.W.G.)
F,G,H } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	+ - 3/4 IN. x 10 FT. GROUND ROD
	I/C - 12 PAIR COMMUNICATION CABLE, JELL-FILLED



PHASE	1	2	3	4	5	6	7	8
PHASE 2	G	G	←R-	←R-	DW	DW	WK	WK
PED. CLEARANCE	G	G	←R-	←R-	DW	DW	FL/DW	FL/DW
2 CHANGE	Y	Y	←R-	←R-	DW	DW	DW	DW
PHASE 4	R	R	←G-	←G-	DW	DW	DW	DW
4 CHANGE	R	R	←Y-	←Y-	DW	DW	DW	DW
ALT. PHASE 4	R	R	←G-	←G-	WK	WK	DW	DW
PED. CLEARANCE	R	R	←G-	←G-	FL/DW	FL/DW	DW	DW
ALT. 4 CHANGE	R	R	←Y-	←Y-	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK



<p>REVISIONS</p>		<p>MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNAL PLAN MD 268 (NORTH STREET) AT MD 7D (MAIN STREET)</p>	
<p>(E) REBUILD SIGNAL DUE TO NEW GEOMETRICS CE7715184 08/02</p>		<p>TS NO. TS-59E SHEET NO. 3 OF 5</p>	
<p>D MODIFY SIGNAL DUE TO ONE-WAY OPERATION 3/26/99</p>		<p>DATE: OCTOBER, 1999</p>	
<p>C REPLACE SIGNAL LOOPS AND CABLES 4/99</p>		<p>LOG MILE: 07D00701.65</p>	