

**PROJECT DESCRIPTION**

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 24 (EMMORTON ROAD) AND HANSON ROAD IN HARFORD COUNTY. MD 24 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 24 APPROACHES OPERATING CONCURRENTLY AND THE HANSON ROAD APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING WILL BE PROVIDED FOR ALL APPROACHES.

CONTROLLER REQUIREMENTS

THE EXISTING POLE MOUNTED CABINET AND CONTROLLER SHALL BE USED.

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30	STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE)	STANDARD NO. MD-104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE)	STANDARD NO. MD-104.48-01 (INTERSECTION TURN BAY LANE CLOSURE)
STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)	STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)	
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)	

**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

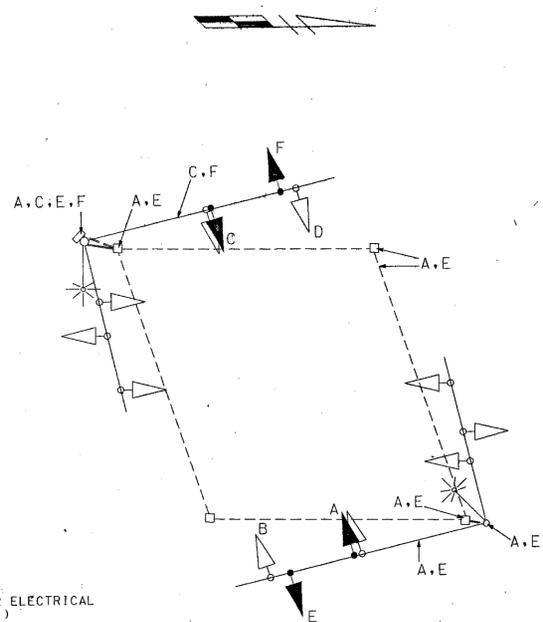
MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
PHONE: (410) 321-2781/2785

MRS. SUENETTE POPE  
DISTRICT UTILITY ENGINEER  
PHONE: (410) 321-2841

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
PHONE: (410) 321-2761

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

**WIRING DIAGRAM**



**A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION**

ITEM NO.	QUANTITY	DESCRIPTION
9000	345 LF	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
9000	1 EA	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
9000	2 EA	12 INCH 1- WAY, 5-SECTION (R,Y,G,YA,GA) POLYCARBONATE SIGNAL HEAD, MAST ARM MOUNTED
9019	2 EA	8" & 12" COMBO 1- WAY, 5-SECTION (8" R,Y,G, 12" YA,GA) POLYCARBONATE SIGNAL HEAD, MAST ARM MOUNTED
9590	21 SF	FLAT SHEET ALUM. SIGN-BLUE OR GREEN (SF)

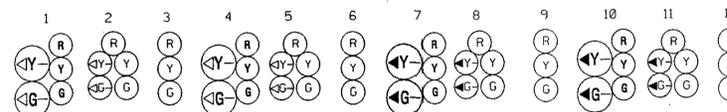
**B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR**

ITEM NO.	QUANTITY	DESCRIPTION
N/A		

**C. EQUIPMENT TO BE REMOVED AND RETURNED TO STATE HIGHWAY ADMINISTRATION**

ITEM NO.	QUANTITY	DESCRIPTION
N/A		

**PHASE CHART**



Phase	1	2	3	4	5	6	7	8	9	10	11	12
Phase 1 & 5	<G-R	<G-R	R	<G-R	<G-R	R	R	R	R	R	R	R
1 & 5 Change	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6											
Phase 1 & 6	<G-G	<G-G	G	R	R	R	R	R	R	R	R	R
1 Change	<Y-G	<Y-G	G	R	R	R	R	R	R	R	R	R
Phase 2 & 5	R	R	R	<G-G	<G-G	G	R	R	R	R	R	R
5 Change	R	R	R	<Y-G	<Y-G	G	R	R	R	R	R	R
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
Phase 3 & 7	R	R	R	R	R	R	<G-R	<G-R	R	<G-R	<G-R	R
3 & 7 Change	THE CONTROLLER MAY SKIP TO PHASES 3 & 8 OR 4 & 7 OR 4 & 8											
Phase 3 & 8	R	R	R	R	R	R	R	R	R	<G-G	<G-G	G
3 Change	R	R	R	R	R	R	R	R	R	<Y-G	<Y-G	G
Phase 4 & 7	R	R	R	R	R	R	<G-G	<G-G	G	R	R	R
7 Change	R	R	R	R	R	R	<Y-G	<Y-G	G	R	R	R
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
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

REVISIONS	APPROVALS
	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
**TRAFFIC ENGINEERING DESIGN DIVISION**  
GENERAL INFORMATION SHEET  
MD 24 (EMMORTON ROAD) AT HANSON ROAD

DRAWN BY: G. PANCHOLI	F.A.P. NO. -	TS NO. TS-1211-B	SHEET NO. 2 OF 2
CHECKED BY: D. DODA	S.H.A. NO. SF-SIGNAL	T.I.M.S. NO. F-252	
SCALE: NONE	COUNTY: HARFORD		
DATE: JANUARY 15, 2003	LOG MILE: 12002401.09		