

PROJECT DESCRIPTION

I. GENERAL:

THIS PROJECT INVOLVES THE REMOVAL OF EXISTING LOOP DETECTORS AND REPLACING THE NEARSIDE LOOPS WITH VIDEO DETECTION AND THE FAR LOOPS WITH 500 FOOT MICROLOOP PROBES FOR THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 147 (HARFORD ROAD) AND NORTH WIND ROAD, IN BALTIMORE COUNTY. MD 147 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. THE STREET LIGHTING, TRAFFIC SIGNAL HEADS AND SIGNING AT THE INTERSECTION NOT INVOLVED IN THE CONSTRUCTION SHALL REMAIN THE SAME.

THE EXISTING LOOPS SHALL BE REMOVED AND ANY WIRING ASSOCIATED WITH THEM SHALL BE PULLED BACK FROM THE CONTROLLER AND REMOVED FROM THE EXISTING CONDUIT. THE PROPOSED 500 FOOT MICROLOOP PROBES SHALL UTILIZE THE EXISTING CONDUIT AND BE INSTALLED AFTER ALL EXISTING WIRES FOR LOOPS HAVE BEEN REMOVED. VIDEO CAMERAS FOR DETECTION SHALL BE ADDED TO THE EXISTING MAST ARMS OR EXISTING LIGHTING ARM AND AIMED TO THE PROPER LANES AS SHOWN ON THE DESIGN PLANS. ALL OTHER SIGNAL EQUIPMENT CABLES AND WIRES SHALL REMAIN AS IS CURRENTLY OPERATING.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULL TRAFFIC ACTUATED MODE. MD 147 APPROACHES OPERATE CONCURRENTLY WITH AN EXCLUSIVE/ PERMISSIVE LEFT TURN FOR THE EAST LEG OF MD 147. THE NORTH WIND ROAD APPROACHES SHALL ALSO OPERATE CONCURRENTLY. THE NEMA SIZE '5' POLE-MOUNTED CABINET AND ALL INTERNAL EQUIPMENT SHALL REMAIN.

III. SPECIAL NOTES:

1. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER, OOTS/SIGNAL SHOP SEVENTY- TWO HOURS PRIOR TO ANY CONSTRUCTION.
2. THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT AND HARDWARE REQUIRED FOR THE SIGNAL WORK AS SPECIFIED ON THE DESIGN PLANS.
3. THE CONSTRUCTION ACTIVITY SHALL BE PERFORMED DURING OFF PEAK HOURS, ONLY.

EQUIPMENT LIST

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

CAT. CODE	SPEC. NO.	QUANTITY	DESCRIPTION
800000	873	1 FA.	REMOVE AND DISPOSE OF EQUIPMENT PER ASSINMENT
810550	810	2 EA.	MICROLOOP PROBE DETECTOR - 500 FT LEAD IN CABLE
816001	816	3 EA.	VIDEO DETECTION CAMERA
816010	816	3 EA.	CONTROL CABLE, 500 FT VIDEO DETECTION CAMERA TO CONTROLLER
816015	816	1 EA.	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
862102	815	125 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PROJECT CONTACTS

THE CONTACT REPRESENTATIVES FOR DISTRICT 4 ARE AS FOLLOWS:

MR. SCOTT RANDALL
ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: 410-321-2781/2885

MS. SUENETTE POPE
DISTRICT UTILITY ENGINEER
PHONE: 410-321-2841

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

THE CONTACT REPRESENTATIVES FOR SHA -OOTS ARE AS FOLLOWS:

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

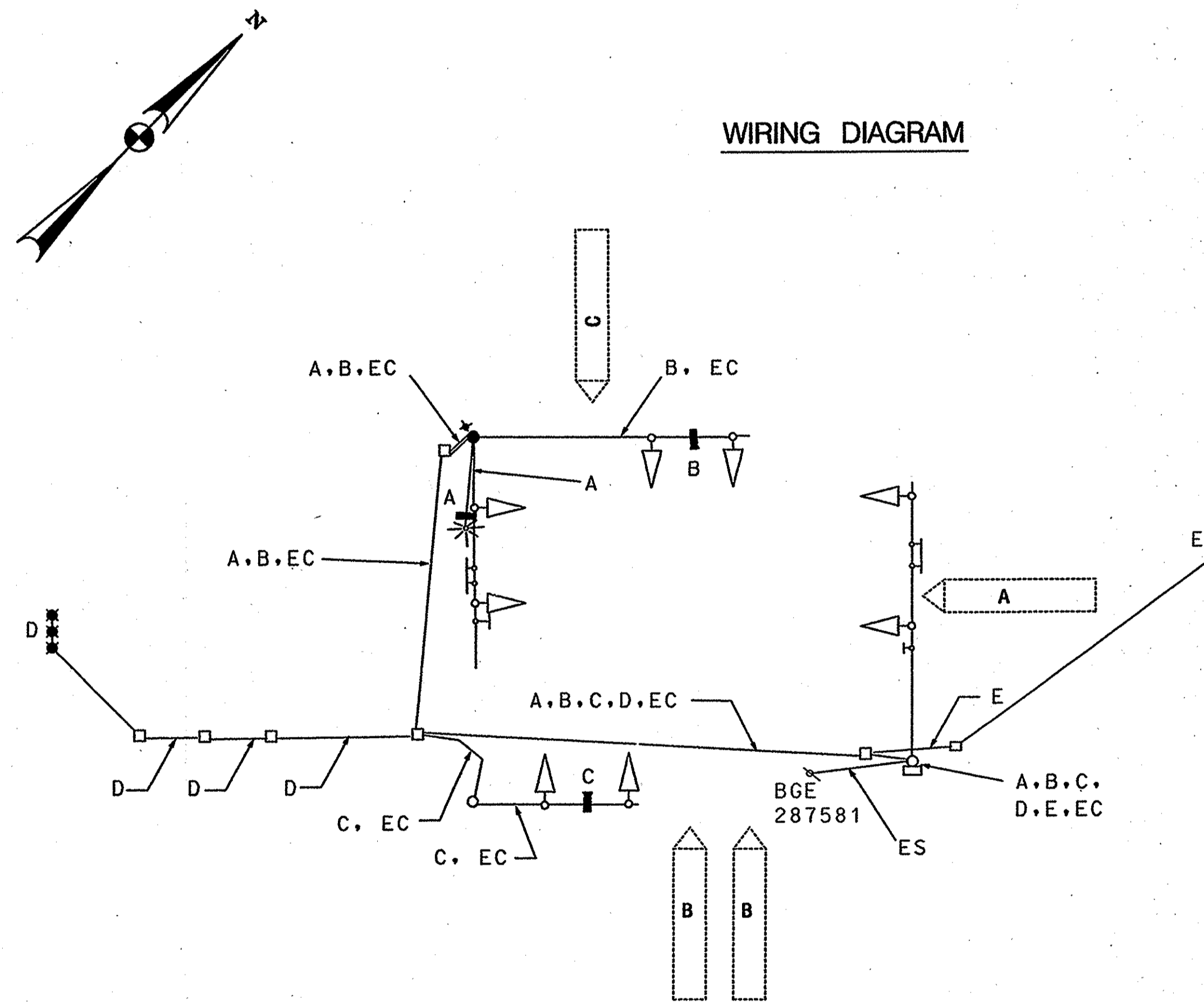
MR. ROBERT SNYDER
ASST. CHIEF, TRAFFIC OPERATION DIVISION
PHONE: 410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATION SECTION
PHONE: 410-787-7652

PHASE CHART

	1	2	3	4	5	6	7	8	
	R	R	R	R	R	R	R	R	
	Y	Y	Y	Y	Y	Y	Y	Y	
	G	G	G	G	G	G	G	G	
Phase 2 & 5	R	R	←G-G	G	R	R	R	R	←
5 Change	R	R	←Y-G	G	R	R	R	R	←
Phase 2 & 6	G	G	G	G	R	R	R	R	←
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	→
Phase 4 & 8	R	R	R	R	G	G	G	G	↑
4 & 8 Change	R	R	R	R	Y	Y	Y	Y	↑
Flashing	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	↑↓
Operation									↑↓

WIRING DIAGRAM



WIRING KEY

A	}	PROPOSED VIDEO DETECTION CABLE.
B		
C		
D	}	PROPOSED MICRO LOOP PROBE SET WITH 600 FT LEAD IN
E		
EC		EXISTING CABLES TO REMAIN.
ES		EXISTING SERVICE TO REMAIN.
⊕		EXISTING GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 147(HARFORD RD.) AND NORTH WIND RD.

DRAWN BY: C. MUNZ	F.A.P. NO. 27863TO3049	TS NO. 2046 D	SHEET NO. 69 OF 70
CHECKED BY: MJW	S.H.A. NO. BALTIMORE	T.I.M.S. NO. F-694	
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