PROJECT DESCRIPTION

THIS PROJECT INVOLVES A MODIFICATION OF THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THE INTERSECTION OF MD 704 (MARTIN LUTHER KING, JR. HIGHWAY) AND ARDWICK-ARDMORE ROAD. THE LEFT-TURN PHASING FOR EASTBOUND AND WESTBOUND MD 704 WILL BE CONVERTED FROM EXCLUSIVE/PERMISSIVE TO EXCLUSIVE. ALL VEHICULAR SIGNAL HEADS WILL BE CHANGED TO BLACK FACED SIGNALS. LOOP DETECTORS ON THE NORTHBOUND APPROACH OF ARDWICK-ARDMORE ROAD WILL BE REPLACED. A LOOP DETECTOR FOR QUEUE DETECTION WILL BE ADDED IN THE MD 704 EASTBOUND LEFT-TURN LANE. SAMPLING LOOPS WILL BE ADDED ON EASTBOUND AND WESTBOUND MD 704. MD 704 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE FULLY ACTUATED NEMA CONTROLLER WILL BE USED. THE CONTROLLER WILL OPERATE IN A FOUR PHASE FULLY-ACTUATED MODE WITH THE EASTBOUND AND WESTBOUND MD 704 APPROACHES RUNNING CONCURRENTLY AND THE NORTHBOUND AND SOUTHBOUND ARDWICK-ARDMORE ROAD APPROACHES RUNNING IN CONSECUTIVE PHASES. EXCLUSIVE PHASING WILL BE PROVIDED FOR THE EASTBOUND AND WESTBOUND MD 704 LEFT-TURN MOVEMENTS. A PEDESTRIAN PHASE ACROSS THE NORTH LEG WILL OPERATE CONCURRENTLY WITH THE EASTBOUND AND WESTBOUND MD 704 PHASE. A PEDESTRIAN PHASE ACROSS THE WEST LEG WILL OPERATE CONCURRENTLY WITH THE SOUTHBOUND ARDWICK-ARDMORE ROAD PHASE.

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7358

MR. AUGUSTINE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7304

CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY

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DIVISION CHIEF, TRAFFIC OPERATIONS
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MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
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MR. ED RODENHIZER
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410-787-7652

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
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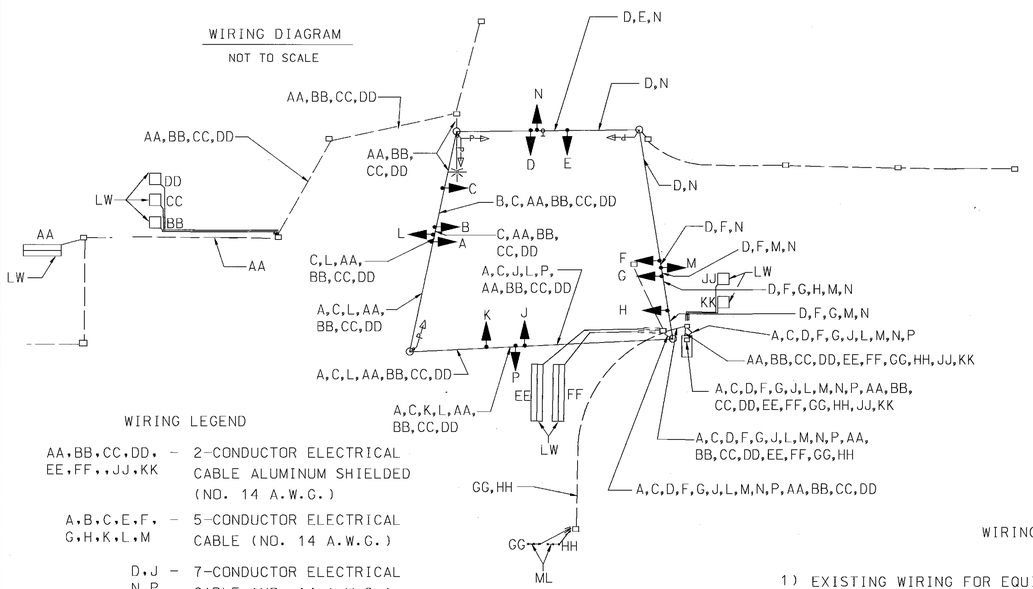
THE POWER COMPANY REPRESENTATIVE IS:

POTOMAC ELECTRIC POWER COMPANY
MR. STEVE CUSTER
(202) 872-2000

WIRING DIAGRAM

NOT TO SCALE



MD 704 (M.L.KING HWY.) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

WIRING LEGEND

AA,BB,CC,DD, EE,FF,,JJ,KK –	2-CONDUCTOR ELECTRICAL CABLE ALUMINUM SHIELDED (NO. 14 A.W.G.)
A,B,C,E,F, G,H,K,L,M –	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D,J N,P –	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
GG,HH –	MICROLOOP PROBE SET
LW –	LOOP WIRE ENCASED IN 1/4 INCH FLEXIBLE TUBING (NO. 14 A.W.G.)
ML –	MICROLOOP PROBE SET

WIRING NOTE:

1) EXISTING WIRING FOR EQUIPMENT WHICH IS BEING REMOVED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

2) EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

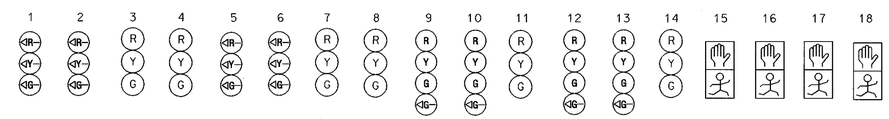
ITEM NO.	QUANTITY	DESCRIPTION
9001	90 SF	SHEET ALUMINUM SIGNS: 2-EACH R10-10L (24"X30") - SPAN WIRE MOUNTED 1-EACH R3-6R (30"X36") - SPAN WIRE MOUNTED 2-EACH ASSOCIATED SHIELD ASSEMBLY (30"X51") 2-EACH ASSOCIATED SHIELD ASSEMBLY (48"X75")

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	2 EA	F&I HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING ARROW
5005	60 LF	F&I 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
5008	70 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKING - ANY WIDTH
8011	46 EA	F&I 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8029	2 EA	F&I MICROLOOP PROBE, 500 FOOT LEAD-IN CABLE
8048	1 EA	REMOVE & DISPOSE OF EXISTING MATERIAL & EQUIPMENT PER ASSIGNMENT
8064	20 LF	F&I 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8070	55 LF	F&I 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8077	90 SF	INSTALL OVERHEAD SIGN
8083	3400 LF	F&I ELECTRICAL CABLE, 2-CONDUCTOR (ALUMINUM SHIELDED)
8086	1400 LF	F&I ELECTRICAL CABLE, 5-CONDUCTOR NO. 14 AWG
8087	850 LF	F&I ELECTRICAL CABLE, 7-CONDUCTOR NO. 14 AWG
8089	3100 LF	F&I LOOP WIRE ENCASED IN FLEXIBLE TUBING NO. 14 AWG
8090	875 LF	F&I SAW CUT FOR SIGNAL (LOOP DETECTOR)
NEG.	60 LF	F&I 5 INCH WHITE LEAD FREE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:
ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART



PHASE 1 & 5	◁G-	◁G-	R	R	◁G-	◁G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6																	
PHASE 1 & 6	◁G-	◁G-	G	G	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 & 6 CHANGE	◁Y-	◁Y-	Y	Y	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 5	◁R-	◁R-	R	R	◁G-	◁G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 5 CHANGE	◁R-	◁R-	R	R	◁Y-	◁Y-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6	◁R-	◁R-	G	G	◁R-	◁R-	G	G	R	R	R	R	R	R	W	W	DW	DW
PED. CLEAR	◁R-	◁R-	G	G	◁R-	◁R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	◁R-	◁R-	Y	Y	◁R-	◁R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 3	◁R-	◁R-	R	R	◁R-	◁R-	R	R	◁G- G	◁G- G	G	R	R	R	DW	DW	DW	DW
3 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW
PHASE 4	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	◁G- G	◁G- G	G	DW	DW	DW	DW
4 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
ALT. 4	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	◁G- G	◁G- G	G	DW	DW	W	W
PED. CLEAR	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	◁G- G	◁G- G	G	DW	DW	FL/DW	FL/DW
ALT. 4 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/ ◁R-	FL/ ◁R-	FL/ Y	FL/ Y	FL/ ◁R-	FL/ ◁R-	FL/ Y	FL/ Y	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	DARK	DARK	DARK	DARK

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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 704 (MARTIN LUTHER KING JR. HIGHWAY)
AND ARDWICK-ARDMORE ROAD
GLENARDEN, MARYLAND
GENERAL INFORMATION SHEET

DRAWN BY:	M. PIERRE	F.A.P. NO.	AC-STPG-000S(786)E	TS NO. 549F-GI	SHEET NO.
CHECKED BY:	J. LAWRENCE	S.H.A. NO.	PG434A1GN		
SCALE:	NONE	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO. F226	2 OF 2
DATE:	7-25-02	LOG MILE:	16070404.15		

PLOTTED: "02:58 PM on Thursday, August 01, 2002"
BY: McSendy Pierre Division: Transportation
FILE: m:\997\097023.00\Drawings\gg01F226.dgn