

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 AND MARLEY STATION ROAD IN ANNE ARUNDEL COUNTY. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULL-TRAFFIC-ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS BEING USED. THE CONTROLLER CURRENTLY OPERATES AS AN EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH EXCLUSIVE LEFT TURN PHASES FOR ALL THE APPROACHES AND AN ALTERNATE PEDESTRIAN PHASE ACROSS THE NORTH LEG OF MD 2. A FIREHOUSE PRE-EMPTION ALSO EXISTS FOR W.B. MARLEY STATION RD.

THE CONTROLLER WILL CHANGE TO A SIX-PHASE FULL-TRAFFIC-ACTUATED CONTROLLER WITH AN EXCLUSIVE LEFT TURN PHASES FOR N.B. AND S.B MD 2. AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH LEG OF MD 2. A FIREHOUSE PRE-EMPTION FOR W.B. MARLEY STATION RD., AND SIDE STREET SPLIT PHASING.

PHASING CHART

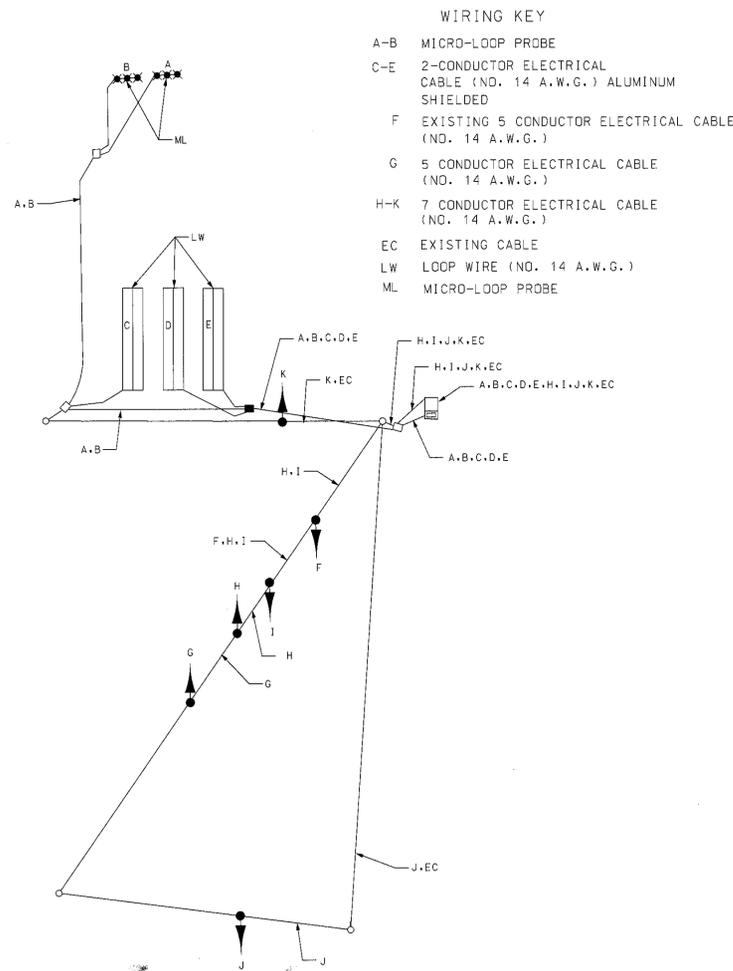
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 & 5	<G-	<G-	R	R	<G-	<G-	R	R	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6															
PHASE 1 & 6	<G-	<G-	G	G	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	<Y-	<Y-	Y	Y	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	<R-	<R-	R	R	<G-	<G-	G	G	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	<R-	<R-	R	R	<Y-	<Y-	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	<R-	<R-	G	G	<R-	<R-	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	<R-	<R-	Y	Y	<R-	<R-	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW
3 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE ALT. 3	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	G	G	G	WK	WK
PED CLEAR	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	FL/DW	FL/DW
ALT. 3 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 4	<R-	<R-	R	R	<R-	<R-	R	R	R	R	R	R	R	R	DW	DW
4 CHANGE	<R-	<R-	R	R	<R-	<R-	R	R	Y	Y	R	R	R	R	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

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	4 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW
5001	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT/THRU)
5002	8 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING LETTER
5005	40 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
5006	50 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8011	16 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	6 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8029	2 EA	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8052	100 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8058	16 LF	FURNISH AND INSTALL 4 IN. X 4 IN. WOOD SUPPORT
8068	30 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8072	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8081	275 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8084	25 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	660 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8087	1280 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	410 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
---	1 EA	RELOCATE EXISTING SIGN
---	1 EA	FURNISH AND INSTALL R3-5(R) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-6(L) SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R4-7 SIGN (24" X 30") GROUND MOUNT

WIRING DIAGRAM



EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MS. KIM TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. CHARLES GEORGE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 841-1002

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1005

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		
ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 2 AT MARLEY STATION ROAD

DRAWN BY: M.HOWELL	F.A.P. NO. T-8005 (12)	TS NO. 15 985-2	SHEET NO. 5
CHECKED BY: T.ZAYDEL	S.H.A. NO.	T.I.M.S. NO. F867	2 OF 2
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL	LOG MILE: 0200234.76	
DATE: 7-8-03			