

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF BUS. MD 3 AND MD 174 IN ANNE ARUNDEL COUNTY. BUS. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER HOUSED IN A POLE MOUNTED CABINET WILL BE USED. INSTALL ONE 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER.

THE CONTROLLER CURRENTLY OPERATES IN A THREE PHASE, FULL-TRAFFIC-ACTUATED MODE. THIS PROJECT WILL INVOLVE SPLITTING THE SIDE STREET PHASES.

PHASE CHART

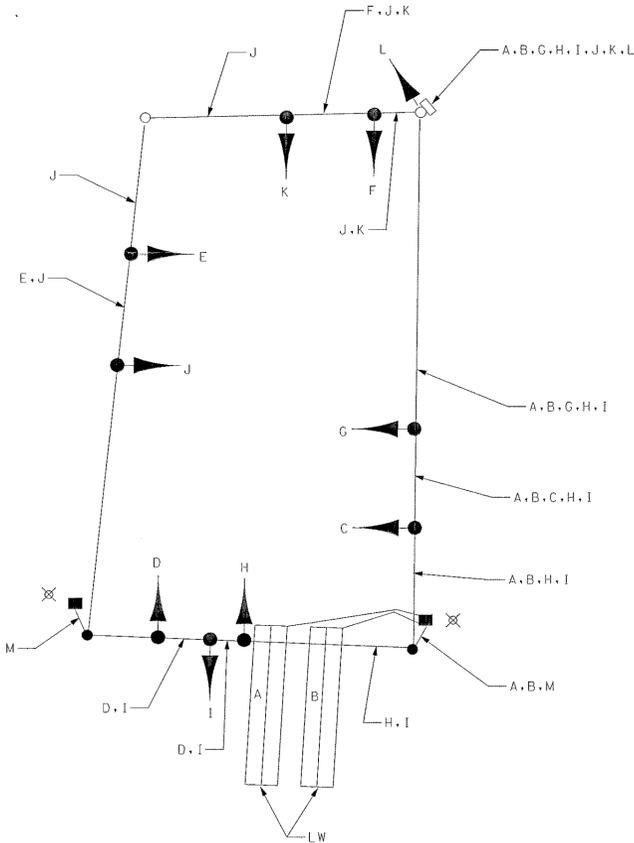
	1	2	3	4	5	6	7	8	9	10	
	R	R	R	R	G	R	R	R	R	R	
	Y	Y	Y	Y	O	Y	Y	Y	Y	Y	
	B	B	B	B	B	B	B	B	B	B	
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	
PHASE 3	R	R	R	R	R	R	R	R	G		
3 CHANGE	R	R	R	R	R	R	R	Y	Y	Y	
PHASE 4	R	R	R	R	R	R	G	R	R	R	
4 CHANGE	R	R	R	R	Y	Y	Y	R	R	R	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	

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	LS	MAINTENANCE OF TRAFFIC
2002	2 EA	TEST PIT EXCAVATION
5001	5 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW
5001	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (RIGHT, THRU, LEFT)
5002	8 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING LETTER
5004	120 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5005	100 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5006	150 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5007	300 LF	FURNISH AND INSTALL 5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5008	300 LF	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS ANY WIDTH
8007	2 EA	FURNISH AND INSTALL 12 IN. 0 GAUGE 30 FT. STRAIN POLE
8011	28 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8019	6 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8048	LS	REMOVE AND DISPOSE OF MATERIAL AND EQUIPMENT
8057	6 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8058	14 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS-4" X 4"
8060	20 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8068	20 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8072	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER BY 10 FT. LENGTH
8081	370 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8082	110 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8084	700 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8087	900 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	240 LF	FURNISH AND INSTALL STEEL SPAN WIRE 3/8 IN. DIAMETER
8090	360 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8091	20 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
---	1 EA	FURNISH AND INSTALL R3-2 SIGN (24" X 24") SPAN WIRE MOUNT
---	2 EA	FURNISH AND INSTALL R3-5L SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-5R SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL R3-5 RTL SIGN (30" X 36") SPAN WIRE MOUNT
---	1 EA	FURNISH AND INSTALL 4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
---	1 EA	FURNISH AND INSTALL R5-1 SIGN (24" X 24") GROUND MOUNT

WIRING DIAGRAM



- A-B 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- C-F 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- G-L 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- LW LOOP WIRE (NO. 14 A.W.G.)
- ⊗ GROUND ROD

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:

MR. LARRY ELLIOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 841-1003

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 841-1002

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

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

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

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

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

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

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

EQUIPMENT LIST "C"

ITEM NO. QUANTITY DESCRIPTION

NONE

NOTE: ALL SIGNAL EQUIPMENT AND MATERIAL TO BE REMOVED NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.

Brightview Business Center
325 Gambrells Road
Suite E
Gambrells, MD 21054
(410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
BUS. MD 3 AND MD 174

DRAWN BY: M. HOWELL	F.A.P. NO. _____	TS NO. 1271A GI	SHEET NO. _____
CHECKED BY: T. ZAYDEL	S.H.A. NO. _____	T.J.M.S. NO. E-998	2 OF 2
SCALE: NONE	COUNTY: ANNE ARUNDEL	LOG MILE: _____	
DATE: 4-12-02			