

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 AND MD 424 /CONWAY ROAD IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF A NORTHBOUND MD 3 DOUBLE LEFT TURN LANE AND WILL CONSIST OF THE REPLACEMENT OF DETECTION, AND SIGNAL HEADS. MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTUATED MODE WITH LEAD /LAG EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 3 AND SIDE STREET SPLIT PHASING. THIS WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

THE EXISTING EIGHT-PHASE, FULLY-ACTUATED CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
4 EA	FURNISH AND INSTALL HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING ARROW
15 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
150 LF	FURNISH AND INSTALL 5 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
550 LF	FURNISH AND INSTALL 5 IN. YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
15 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
3 EA	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
1 EA	FURNISH AND INSTALL PEDESTAL POLE ANY SIZE
LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
450 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
1 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
15 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
25 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
750 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
125 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
830 LF	REMOVE AND RE-INSTALL EXISTING CABLE

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 AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

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

MR. ANDRE FUTRELL
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

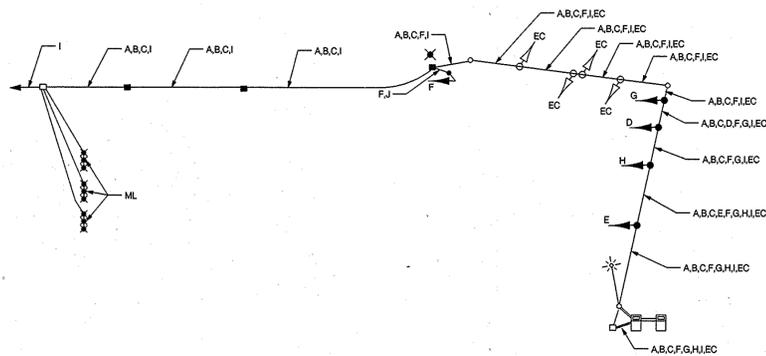
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

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

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

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

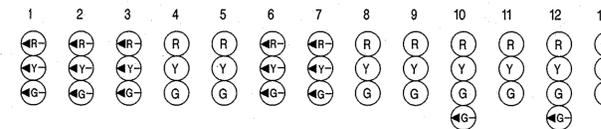
WIRING DIAGRAM



WIRING KEY

- A-C MICRO-LOOP PROBE LEAD-IN
- D-E 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- F-H 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- I 12-PAIR VOICE GRADE INTERCONNECT CABLE
- J STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- ML MICRO-LOOP PROBE
- X GROUND ROD
- EC EXISTING CABLE

PHASING CHART



PHASE 2 + 5	←R	←R	←R	R	R	←G	←G	G	G	R	R	R	R
5 CHANGE	←R	←R	←R	R	R	←Y	←Y	G	G	R	R	R	R
PHASE 2 + 6	←R	←R	←R	G	G	←R	←R	G	G	R	R	R	R
2 + 6 CHANGE	←R	←R	←R	Y	Y	←R	←R	Y	Y	R	R	R	R
PHASE 1 + 6	←G	←G	←G	G	G	←R	←R	R	R	R	R	R	R
1 CHANGE	←Y	←Y	←Y	G	G	←R	←R	R	R	R	R	R	R
PHASE 3	←R	←R	←R	R	R	←R	←R	R	R	←G	G	R	R
3 CHANGE	←R	←R	←R	R	R	←R	←R	R	R	Y	Y	R	R
PHASE 4	←R	←R	←R	R	R	←R	←R	R	R	R	R	←G	G
4 CHANGE	←R	←R	←R	R	R	←R	←R	R	R	R	R	Y	Y
FLASHING OPERATION	FLR	FLR	FLR	FLY	FLY	FLR	FLR	FLY	FLY	FLR	FLR	FLR	FLR

TRAFFIC CONCEPTS INC.
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SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 3 AND MD 424 /CONWAY ROAD

SCALE	NONE	DATE	11-28-06	CONTRACT NO.	BW 996M82
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000302.21		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	1126		
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-160 1GI	SHEET NO.	3	OF	3