

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 322 AND GLEBE ROAD IN TALBOT COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN EASTBOUND MD 322 RIGHT TURN LANE AND A WESTBOUND GLEBE ROAD CHANNELIZED RIGHT TURN LANE. MD 322 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

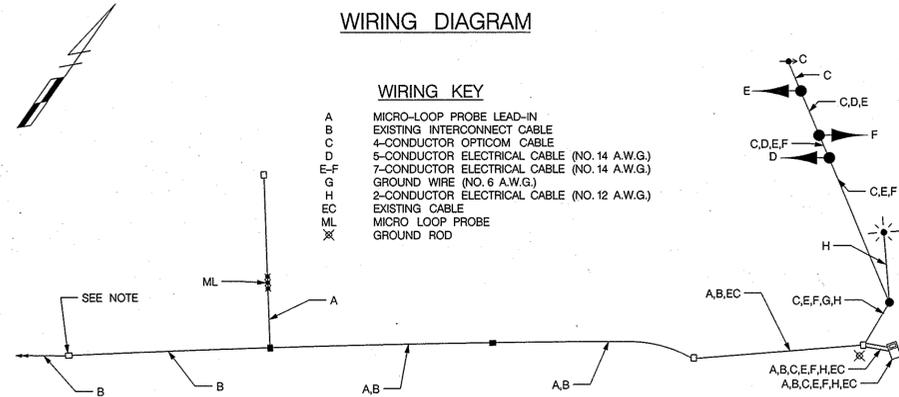
INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A SIX-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR EASTBOUND & WESTBOUND MD 322 AND NORTHBOUND & WESTBOUND PRE-EMPTION. THIS PHASING WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

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

WIRING DIAGRAM



NOTE:
DISCONNECT EXISTING INTERCONNECT CABLE FROM THE CONTROLLER AND PULL-BACK TO THE NEXT HANDHOLE. INSTALL NEW HANDHOLES AND CONDUIT AND THEN RE-INSTALL CABLE THROUGH THE NEW CONDUIT TO THE EXISTING BASE MOUNTED CABINET.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 1 & 5	R	R	R	R	R	R	R	R	R	R	R	R
1 & 5 CHANGE	←G	←G	R	←G	←G	R	R	R	R	R	R	R
PHASE 1 & 6	←G	←G	G	R	R	R	R	R	R	R	R	R
1 & 6 CHANGE	←G	←G	G	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	←G	←G	G	R	R	R	R	R	R
2 & 5 CHANGE	R	R	R	←G	←G	G	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
PRE-EMPTION 1	G	G	G	G	G	G	R	R	R	R	R	R
CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PRE-EMPTION 2	R	R	R	R	R	R	←G	←G	G	R	R	R
CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	R	R
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	— A —
ELECTRICAL	— E —
TELEPHONE	— T —
GAS	— G —
SEWER	— S —
WATER	— W —
CABLE TV	— TV —

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
1 LS	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
20 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
1 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET WITH 1000 FT. LEAD-IN
1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
620 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
700 LF	REMOVE AND REINSTALL EXISTING CABLE
70 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
1 EA	FURNISH AND INSTALL STEEL POLE WITH A 70 FT. MAST ARM
5 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
140 LF	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE
1 EA	FURNISH AND INSTALL OPTICOM DETECTOR EYE
25 LF	FURNISH AND INSTALL 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
250 LF	FURNISH AND INSTALL 7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
1 EA	FURNISH AND INSTALL D3-2 SIGN (VAR. X 16 IN.) MAST ARM MOUNT
30 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER x 10 FT. LENGTH
3 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
10 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
1 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
1 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
100 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY 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 2 ARE AS FOLLOWS:

MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 778-3061

MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 778-3061

MR. BARRY CLOTHIER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 778-3061

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

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
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Gambrills, MD 21054
(410) 923-7101
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EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
MD 322 AND GLEBE RD

SCALE	NONE	DATE	7-15-06	CONTRACT NO.	BW 996M82
DESIGNED BY	T. ZAYDEL	COUNTY	TALBOT		
DRAWN BY	T. ZAYDEL	LOGMILE	20032203.81		
CHECKED BY	K. SCHMID	T.I.M.S. NO.	H 262		
F.A.P. NO.		TOD NO.			
DRAWING NO.	1365C GI	SHEET NO.	2	OF	2