

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 3 AND WAUGH CHAPEL ROAD / REIDEL ROAD IN ANNE ARUNDEL COUNTY, MD 3 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH A EXCLUSIVE LEFT TURN PHASE FOR N.B. AND S.B. MD 3 AND SIDE STREET SPLIT PHASING. FIREHOUSE PRE-EMPTION EXISTS FOR W.B. REIDEL ROAD.

CONTROLLER REQUIREMENTS

A NEW EIGHT-PHASE, FULLY-ACTUATED CONTROLLER WITH FIVE (5) FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS HOUSED IN A NEMA "6" BASE MOUNTED CABINET WILL BE INSTALLED AT THE INTERSECTION.

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
35 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
2 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
30 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
200 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
25 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
1 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
1 EA	FURNISH AND INSTALL BASE MOUNTED CABINET AND CONTROLLER
5 EA	FURNISH AND INSTALL 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
LS	REMOVE AND DISPOSE EXISTING EQUIPMENT
2550 LF	REMOVE AND REINSTALL EXISTING CABLE
1 EA	FURNISH AND INSTALL R3-SL SIGN (30 IN. X 36 IN.) - MAST ARM MOUNT
25 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
25 LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, NON-METALLIC CONDUIT - DETECTOR SLEEVE
150 LF	FURNISH AND INSTALL SAWCUT
2600 LF	FURNISH AND INSTALL 12 PAIR VOICE GRADE INTERCONNECT CABLE - UNDERGROUND
1 EA	FURNISH AND INSTALL VIDEO DETECTION INTERFACE
1 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
1 EA	FURNISH AND INSTALL 500 FT. VIDEO DETECTION CABLE
280 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
420 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
1100 LF	FURNISH AND INSTALL 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
3 EA	FURNISH AND INSTALL MICRO-LOOP PROBE WITH 1000 FT. LEAD-IN

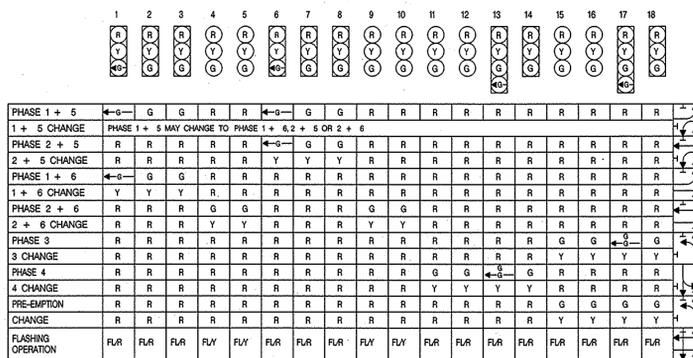
EQUIPMENT LIST "C"

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.

PHASE CHART



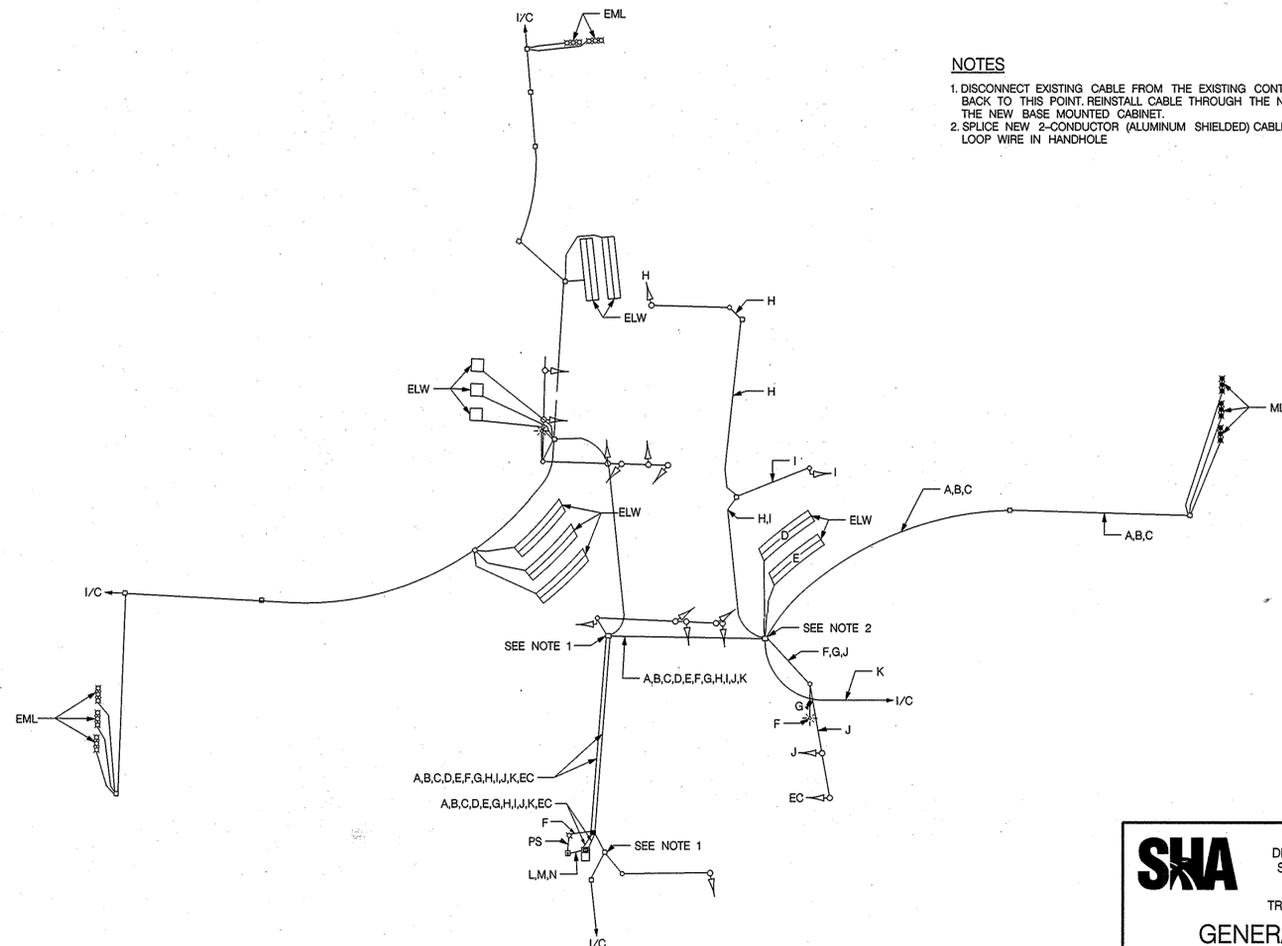
CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

- MRS. 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. 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



NOTES

- DISCONNECT EXISTING CABLE FROM THE EXISTING CONTROLLER AND PULL BACK TO THIS POINT. REINSTALL CABLE THROUGH THE NEW CONDUIT TO THE NEW BASE MOUNTED CABINET.
- SPlice NEW 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE TO EXISTING LOOP WIRE IN HANDHOLE

WIRING KEY

- A-C MICRO-LOOP PROBE LEAD-IN
- D-E 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
- F 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- G VIDEO DETECTION CABLE
- H-J 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- K 12-PAIR VOICE GRADE INTERCONNECT CABLE
- L-N 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- EIC EXISTING INTERCONNECT CABLE
- ML MICRO-LOOP PROBE
- ELW EXISTING LOOP WIRE (NO. 14 A.W.G.)
- PS PROPOSED ELECTRIC SERVICE
- X GROUND ROD

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 3 AND WAUGH CHAPEL RD./REIDEL RD.

TRAFFIC CONCEPTS INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

SCALE	NONE	DATE	6-13-06	CONTRACT NO.	
DESIGNED BY	T. ZAYDEL	COUNTY	ANNE ARUNDEL		
DRAWN BY	T. ZAYDEL	LOGMILE	02000303.96		
CHECKED BY	K. SCHMID	T.I.M.S. NO.			
F.A.P. NO.	NA	TOD NO.			
DRAWING NO.	TS-1515M GI	SHEET NO.	4	OF	4