

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 925 AND SMALLWOOD DRIVE IN CHARLES COUNTY. THE WORK CONSISTS OF THE INSTALLATION OF STREET LIGHTING AT THE INTERSECTION AND THE INSTALLATION OF A HAZARD IDENTIFICATION BEACON (HIB) ON WESTBOUND SMALLWOOD DRIVE. MD 925 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SEVEN-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR S.B. MD 925 AND E.B. AND W.B. SMALLWOOD DRIVE. THIS PHASING WILL NOT CHANGE.

CONTROLLER REQUIREMENTS

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

EQUIPMENT LIST "A"

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

QUANTITY	DESCRIPTION
32 SF	SHEET ALUMINUM SIGNS -2 EA W3-3 (48"x48")
1 EA	2-CIRCUIT FLASHER UNIT WITH A "G" TYPE POLE MOUNTED CABINET

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.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
8001	2 EA	FURNISH AND INSTALL 12 IN. YELLOW L.E.D. SIGNAL HEAD SECTION
8007	2 EA	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
8016	1 EA	FURNISH AND INSTALL 27 FT. MAST ARM POLE AND 38 FT. MAST ARM
1 8035	700 700 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 IN. - TRENCHED
8041	80 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8036	45 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 IN. - BORED
1 8047	5 5 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	70 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR (NO. 14 A.W.G.)
8058	320 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
8064	1 EA	INSTALL POLE MOUNTED CABINET AND CONTROLLER
8043	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
8039	32 SF	INSTALL OVERHEAD AND GROUND MOUNTED SIGN
1 8045	2400 2400 LF	FURNISH AND INSTALL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)

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. 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

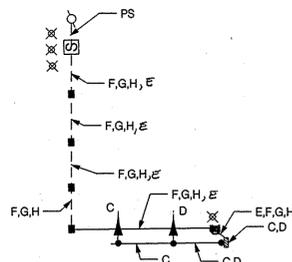
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

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

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

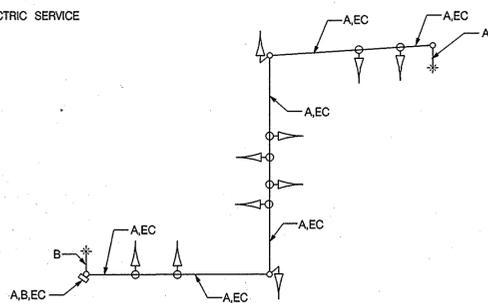
MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

WIRING DIAGRAM



WIRING KEY

- A-B 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)
- C-D 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- F,G,H 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- EC EXISTING CABLE
- PS PROPOSED ELECTRIC SERVICE
- X GROUND ROD



PROPOSED SIGNALS



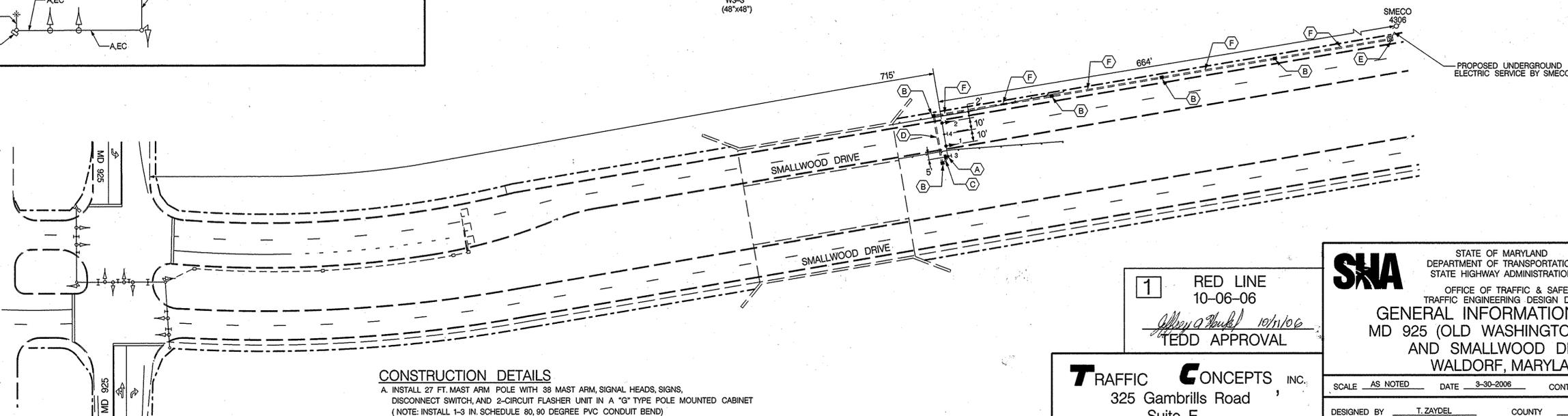
PROPOSED SIGNS



PHASE CHART

THERE ARE NO PHASING CHANGES

SCALE: 1" = 50'



CONSTRUCTION DETAILS

- A. INSTALL 27 FT. MAST ARM POLE WITH 38 FT. MAST ARM, SIGNAL HEADS, SIGNS, DISCONNECT SWITCH, AND 2-CIRCUIT FLASHER UNIT IN A "G" TYPE POLE MOUNTED CABINET (NOTE: INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE PVC CONDUIT BEND)
- B. INSTALL HANDHOLE
- C. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED
- D. INSTALL 3 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED
- E. INSTALL METERED SERVICE PEDESTAL
- F. INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED

1 RED LINE
10-06-06

Tedd Approval
TEDD APPROVAL

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

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 925 (OLD WASHINGTON ROAD)
AND SMALLWOOD DRIVE
WALDORF, MARYLAND

SCALE AS NOTED DATE 3-30-2006 CONTRACT NO. AT9155185

DESIGNED BY T. ZAYDEL COUNTY CHARLES
DRAWN BY T. ZAYDEL LOGMILE 06092501.24
CHECKED BY K. SCHMID T.I.M.S. NO. H275
F.A.P. NO. NA TOD NO.

DRAWING NO. TS-1036D GI SHEET NO. 2 OF 2