

DRILL HOLES

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BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING MAST ARM TRAFFIC CONTROL SIGNAL AT INTERSECTION OF MD 176 (DORSEY ROAD) AND W.B. & A. ROAD IN ANNE ARUNDEL COUNTY. THE EXISTING PEDESTRIAN PHASES SHALL BE UPGRADED TO A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTONS AT THIS LOCATION. MD 176 (DORSEY ROAD) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- 1. THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FOUR-PHASE, SEMI-ACTUATED MODE, WITH THE MD 176 (DORSEY ROAD) APPROACHES OPERATING CONCURRENTLY. THE EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE WESTBOUND APPROACH OF MD 176 (DORSEY ROAD) SHALL CONTINUE TO BE PROVIDED. THE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 176 (DORSEY ROAD) SHALL NOW BE A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTON ACTUATION. THE PEDESTRIAN PHASE ACROSS W.B. & A. ROAD SHALL NOW BE A COUNTDOWN PEDESTRIAN PHASE WITH AUDIBLE PUSHBUTTONS ON RECALL. THE W.B. & A. ROAD APPROACH SHALL ALSO CONTINUE TO RUN IN ITS OWN APPROACH.
2. THE EXISTING FULL TRAFFIC EIGHT PHASE CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS INTERSECTION.
3. SHA SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE CONTRACTOR SHALL DELIVER THE CONTROL UNIT AND AUDIBLE PUSHBUTTONS TO THE SHA SIGNAL SHOP FOR TESTING.

III SPECIAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES, TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE
2. ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES A CONFLICT BETWEEN UTILITIES AND SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA

Table with 3 columns: ITEM NO., QUANTITY, DESCRIPTION. Row 1: 9571, 4 SF, SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN - 4 EACH R10-3(1) SIGN (9"x15")

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

Table with 3 columns: ITEM NO., QUANTITY, DESCRIPTION. Rows include: 1001 MAINTENANCE OF TRAFFIC, 2002 TEST PIT, 6001 STANDARD TYPE A COMBINATION CURB AND GUTTER, 6002 5 INCH CONCRETE SIDEWALK, 6003 DETECTABLE WARNING SURFACE FOR CURB RAMPS, 8002 2-WIRE CENTRAL CONTROL UNIT, 8008 AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS, 8009 BREAKAWAY PEDESTAL POLE, 8018 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, 8027 REMOVE AND DESPOSE OFF MATERIAL & EQUIPMENT, 8043 UP TO 4 INCHES SCHEDULE 80 RIGID PVC CONDUIT, 8045 INSTALL OVERHEAD OR GROUND MOUNTED SIGN, 8047 NO. 6 AWG STRANDED BARE COPPER GROUND WIRE, 8058 ELECTRICAL CABLE - 2 CONDUCTOR, 8060 ELECTRICAL CABLE - 5 CONDUCTOR, Neg. MACADAM SAWCUT

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR

The contact persons for District #5 and SHA are as follows:

Ms. Kim Tran, Assistant District Engineer - Traffic, Phone: (410) 841-1019

Mr. Joe Geckle, Assistant District Engineer - Maintenance, Phone: (410) 841-1000

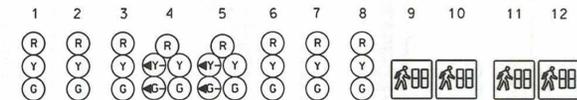
Mr. Mike Huber, Assistant District Engineer - Utility, Phone: (410) 841-1039

Mr. Avijit Maji, Chief, Traffic Operations Division, Phone: (410) 787-7630

Mr. Ed Rodenhizer, Manager, Signal Operations Section, 410-787-7652

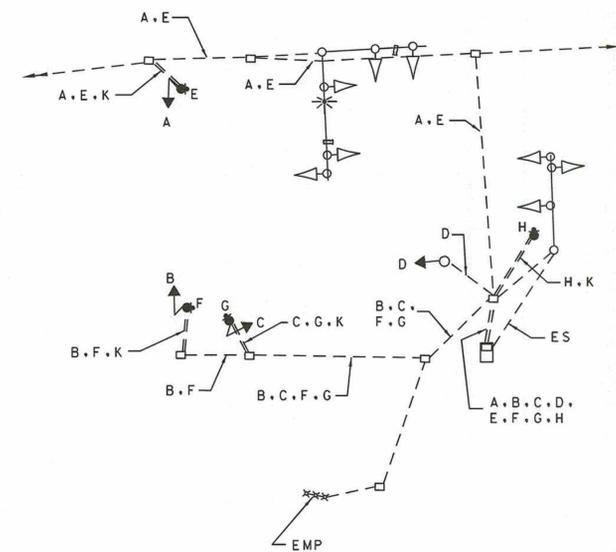
Mr. Sonny Bailey, Manager, Sign Shop Operations, 410-787-7676

PHASE CHART



Phase chart table with columns for phases 1-12 and rows for various signal states: PHASE 2 & 5, 2 & 5 CHANGE, PHASE 2 & 6, PED CLEAR (COUNTDOWN), 2 & 6 CHANGE, PHASE 4, 4 CHANGE, PHASE 4 ALT, PED CLEARANCE (COUNTDOWN), 4 ALT CHANGE, FLASHING OPERATION.

WIRING DIAGRAM



WIRING KEY

- A: 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B: 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
K: STANDARD BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EMP: EXISTING MICROLOOP
ES: EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY BGE

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 176 (DORSEY ROAD) AT W.B. & A. ROAD HANOVER, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE 4/25/13 CONTRACT NO. XY1395185

DESIGNED BY A. BEKELE COUNTY ANNE ARUNDEL
DRAWN BY O. GEORGE LOGMILE 02017604.83
CHECKED BY W. HALL TMS NO. L653
F.A.P. NO. TOD NO.

TS NO. 3248C DRAWING TSP-3 OF 3 SHEET NO. 12 OF 33

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Redline Revision No. 1 4/25/13