

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal at the intersection of MD 188 (Wilson Ln) and Whittier Blvd. in Montgomery County. The pedestrian signals shall be upgraded to Countdown pedestrian signals with audible pushbuttons. MD 188 (Wilson Ln) is assumed to run an east-west direction.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA four-phase, semi-actuated mode, with the MD 188 (Wilson Ln) approaches continuing to run concurrently. The pedestrian phases across both legs of MD 188 (Wilson Ln) shall now be Countdown pedestrian phases with audible pushbutton actuation. The pedestrian phase across the north leg of Whittier Blvd. shall now be a Countdown pedestrian phase with audible pushbuttons on recall. Farside sampling stations on both legs of MD 188 (Wilson Ln) via video detection shall remain in operation at this intersection. The Whittier Blvd. approaches shall also continue to run concurrently.
2. The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.
3. Montgomery County Signal Shop shall install APS control unit into controller cabinet. The APS push buttons should be delivered to Bob Ricketts at the Montgomery County Traffic for programming at least two weeks prior to the beginning of work.

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 controller cabinet wiring will be performed by Montgomery County Forces. Contact Kamal Hamud at (240) 777-8761 seventy-two hours in advance of intended work.
3. All underground and overhead 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 that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contacts for Montgomery County and SHA are as follows:

Mr. Cedric Ward
Assistant District Engineer - Traffic
Phone: (301) 513-7409

Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Victor Grafton
Assistant District Engineer - Utility
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Bob Ricketts
Signal Shop (Mont Co.)
301-279-1291

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7670

Mr. Kamal Hamud
Mont. County TMC Center
240-777-8761

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Sheet aluminum signs, Pedestrian education R10-3(1) sign, etc.

EQUIPMENT LIST (cont.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

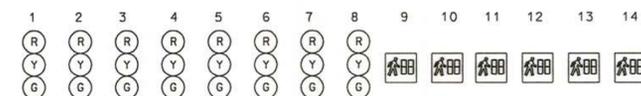
Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Maintenance of traffic per assignment, Class 2 Excavation, Test Pit Excavation, etc.

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

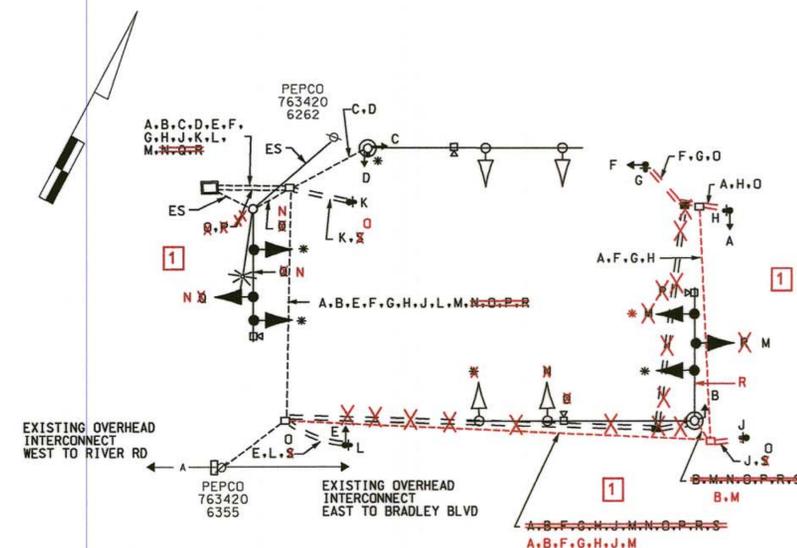
Redline Revision Dated October 3, 2011
SHA MDOT-SHA O.O.T.S.
S.H.A. Approval Date
T.S. #40E T.I.M.S. # K439

PHASE CHART



Phase chart table with columns for phases 1-14 and rows for different signal types like PHASE 2 & 6, PED CLEAR / COUNTDOWN, etc.

WIRING DIAGRAM



WIRING KEY

- 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EXISTING SIGNAL CABLE (TO BE REROUTED)
EXISTING VIDEO CABLE (TO BE REROUTED)
STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
USE EXISTING CABLE
EXISTING SERVICE TO BE MAINTAINED BY PEPCO

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 188 (WILSON LANE)
AND WHITTIER BLVD
BETHESDA, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 6/28/11 CONTRACT NO. XX6555185

DESIGNED BY ROB ZACHERL COUNTY MONTGOMERY
DRAWN BY ROB CICHINI LOGMILE 15018801.56
CHECKED BY TMS NO. K439
F.A.P. NO. TOD NO.

TS NO. 40E DRAWING NO. 3 OF 3 SHEET NO. OF



5961G1.DGN T-116
PLOTTED: #DATE#
FILE: #FILE#