

DRILL HOLES

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REVISION DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the reconstruction of an existing Traffic Control Signal. A new main arm Traffic Signal shall be installed with street lighting, interconnect and fire house pre-emption at the intersection of MD 185 (Connecticut Ave) and MD 192 (Plyers Mill Rd) in Montgomery County. Also, Fire Company #5, located on the northwest quadrant of this intersection shall have an additional pushbutton installed in the fire house to activate a new southbound pre-emption phase. The existing pre-emption phase that creates an "All Red" situation at the intersection shall remain. MD 185 (Connecticut Ave) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection shall continue operate in a NEMA seven-phase, semi-actuated mode, with the MD 185 (Connecticut Ave) approaches running concurrently. The Exclusive/Permissive left turn phases shall remain in operation for both approaches of MD 185 (Connecticut Ave). The pedestrian phases across both legs of Plyers Mill Rd shall now be Countdown pedestrian signal heads with audible pushbuttons on recall. The pedestrian phase across the north leg of MD 185 (Connecticut Ave) shall now be a Countdown pedestrian phase with audible pushbutton actuation. The Plyers Mill Road approaches shall continue to operate as a side street split phase. Pre-emption 1 phase shall continue to stop traffic in all directions so that emergency vehicles can pass thru the intersection. A new pre-emption 2 phase shall be installed. This phase will stop traffic in all directions except northbound MD 185 (Connecticut Ave).
2. A full-traffic-actuated, eight-phase controller with 2-wire Control unit, L.A.U. and L.A.U. Panel, UPS battery back up system and all necessary equipment housed in a Type "S" base-mounted cabinet shall be installed 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, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. Disconnecting and splicing of interconnect cable shall be performed by Montgomery County Forces. The contractor shall run the interconnect cable into the base of each cabinet and properly tag the cable. 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:

Table with contact information for Ms. Felecia Murphy, Mr. Robert Snyder, Mr. Kamal Hamud, Mr. Vernon Stinnett, Mr. Bob Ricketts, Mr. Paul Wilson, Mr. Victor Grafton, and Mr. Sonny Bailey.

EQUIPMENT LIST

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

Table listing equipment items for S.H.A. including LAU Panel, Cabinet size 'S', UPS, Sheet aluminum signs, Spec. Pushbutton Sign, R10-6a 'STOP HERE', GUIDE SIGN, and Sheet aluminum signs to consist of.

EQUIPMENT LIST (CONT.)

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

Table listing equipment items for S.H.A. including Plyers Mill Rd 3800 sign, D-3(1) mod 'arrow' Plyers Mill Rd sign, R3-5R 'RIGHT TURN ONLY' sign, R3-5L 'LEFT TURN ONLY' sign, R3-6 'LEFT TURN AND THRU' sign, M1-5(6) GUIDE SHIELD ASSEMBLY, and Pedestrian education signs.

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table listing equipment items for contractor including Maintenance of traffic per assignment, Class 2 Excavation, Test Pit Excavation, Removal of existing permanent pavement line markings, 12" white preformed thermoplastic pavement marking lines, 24" white preformed thermoplastic pavement marking lines, Standard type A combination curb and gutter, 5" concrete sidewalk, Detectable warning surface for curb ramps, 12" LED signal head section, 2 wire Central Control unit, 8" LED signal head section, Any size lighting arm on signal pole, Audible/tactile pedestrian pushbutton station & signs, Breakaway Pedestal pole, Breakaway Pedestal pole, Embedded Metered service pedestal, Install controller and cabinet base mount, LED 16" countdown pedestrian signal head, Mast arm pole and 50' mast arm, Remove and dispose of equipment per assignment, Video detection camera & cable.

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

Table listing equipment items for contractor including 1 conductor electrical cable, 12-pair communication cable, Disconnect, pull back and reroute cable, Electrical cable, EMT conduit with firehouse pre-emption button, Schedule 80 rigid PVC conduit, Schedule 80 rigid PVC conduit, Schedule 80 rigid PVC conduit, Wood sign supports, Install overhead or ground mounted sign, No. 6 AWG stranded bare copper ground wire, Weatherhead, 1 conductor electrical cable, Furnish and install electrical handhole, 3 inch diameter PVC conduit, Electrical cable, Electrical cable, Electrical cable, Steel span wire, Install controller and cabinet pole mount, Furnish & install fiber optic bank out sign.

C. EQUIPMENT TO BE REMOVED

Montgomery County Forces shall remove the controller and all auxiliary equipment from the controller cabinet. The cabinet and all other removed signal materials are to become property of the contractor.

D. EQUIPMENT TO BE SUPPLIED BY MONTGOMERY COUNTY

Table listing equipment items for Montgomery County including Splice Cabinet.

TOD NO: XY132-04
SHA NO: MO458852
MD 185 @ Plyers Mill Road

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
MD 185 (CONNECTICUT AVE.) AND MD 192 / PLYERS MILL RD KENSINGTON, MARYLAND

GENERAL INFORMATION SHEET
SCALE NONE DATE 9/20/12 CONTRACT NO. XY1325185
DESIGNED BY R.R.Z. COUNTY MONTGOMERY
DRAWN BY R.C. LOGMILE 15018504.40
CHECKED BY TIMS NO. K630
F.A.P. NO. TOD NO.
TS NO. 4445C DRAWING NO. 5 OF 5 SHEET NO. OF

ST STREET TRAFFIC STUDIES, LTD.
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