

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of an interconnect system along MD 648 (Baltimore Annapolis Blvd) in Anne Arundel County. The following intersections are to be interconnect:

- MD 648 and Wellham Ave
MD 648 and Ferndale Rd
MD 648 and Wells Ave
MD 648 and MD 97 Off Ramp
MD 648 and Eastern St
MD 648 and Cromwell Field Shp Cntr Driveway (North)
MD 648 and Cromwell Field Shp Cntr Driveway (South)
MD 648 and MD 176 (Dorsey Rd)

The existing traffic signal at the intersection of MD 648 and Wellham Ave shall be rebuilt. A single diagonal mast arm with a size "5" pole mounted cabinet with video interface shall be installed.

Video detection shall also be installed at

- MD 648 and MD 97 Off Ramp
MD 648 and Cromwell Field Shopping Center D/W (South)

MD 648 (Baltimore Annapolis Blvd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. MD 648 and Wellham Ave

The intersection is to operate in a NEMA four-phase, semi-actuated mode, with the MD 648 (Balto. Annap Blvd) approaches running concurrently. An Exclusive/Permissive left turn phase shall be provided for the southbound approach of MD 648 (Balto. Annap Blvd).

2. There shall be no phasing changes to any of the intersections in this project.

3. Video interface shall be installed into the existing full-traffic-actuated, eight-phase controller housed in a NEMA size "6" base-mounted cabinet at MD 648 and MD 97 Off Ramp.

4. Video interface shall be installed into the full-traffic-actuated, eight-phase controller housed in a NEMA size "6" base-mounted cabinet at MD 648 and Cromwell Field Shp Cntr Driveway (South).

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, at the affected intersections, excluding interconnect, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 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 contact persons for District #5 are as follows:

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

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

Mr. John Mays
Assistant District Engineer - Maintenance
Phone: (410) 841-1013

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

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

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

The power company representative is:

Baltimore Gas and Electric
7317 Parkway Drive South
Hanover, MD 21076
410-850-4620

EQUIPMENT LIST

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

Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Telemetry interface panel, Controller cabinet, Video detection interface, Sheet aluminum signs, etc.

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, Test Pit Excavation, 24" white preformed thermoplastic pavement marking lines, etc.

EQUIPMENT LIST (cont.)

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

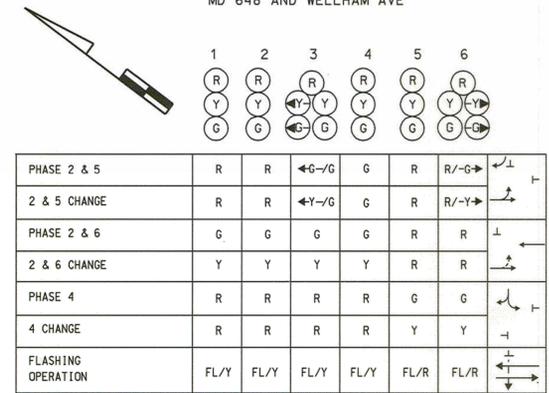
Table with columns: ITEM NO., DESCRIPTION, QUANTITY. Includes items like Electrical cable, Install controller and cabinet pole mount, Neg. Furnish and install manhole in roadway patch, etc.

C. EQUIPMENT TO BE REMOVED

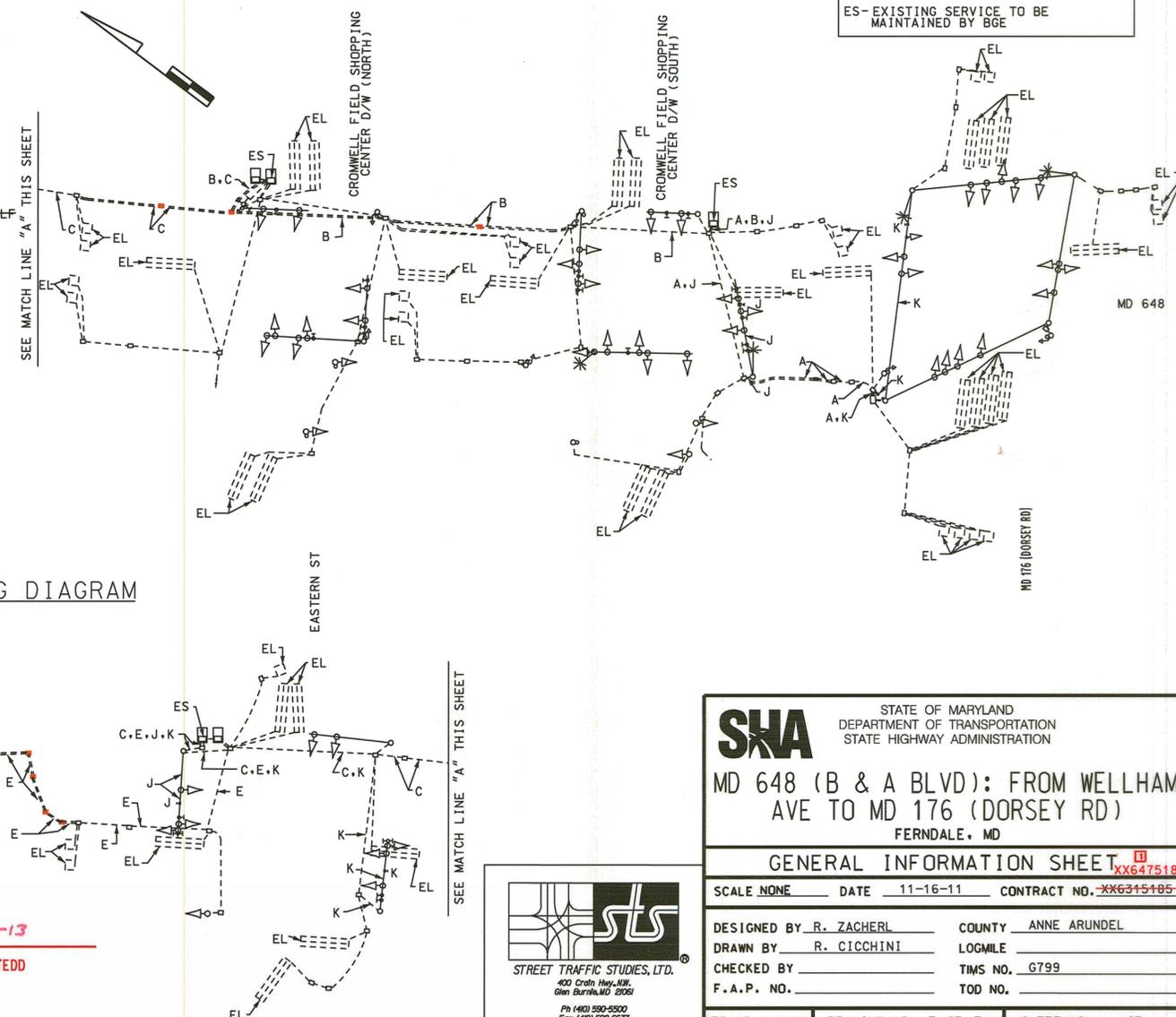
equipment from the controller cabinet at MD 648 and Wellham Ave.. SHA Forces shall remove the controller and all auxiliary SHA Forces shall remove the controller and all auxiliary

PHASE CHART

MD 648 AND WELLHAM AVE

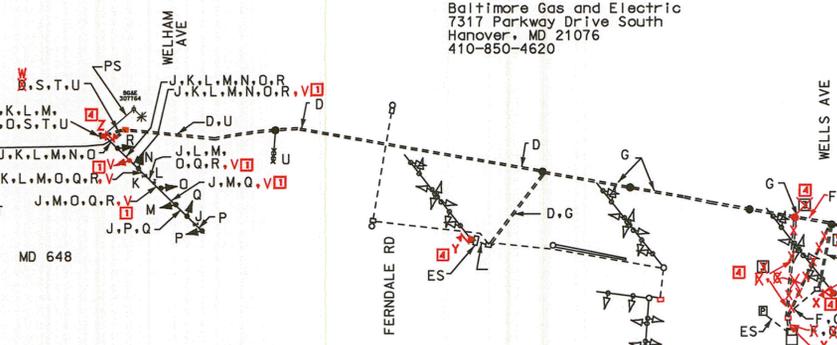


WIRING DIAGRAM



WIRING KEY
A } 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
B }
C }
J } CONTROL CABLE (CAMERA TO CONTROLLER)
K }
EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
ES - EXISTING SERVICE TO BE MAINTAINED BY BGE

WIRING DIAGRAM



WIRING KEY
12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)
CONTROL CABLE CAMERA TO CONTROLLER
7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
S - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
U } MICROLOOP LEAD-IN CABLE
TS } PHONE DROP BY OTHERS
EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING
ES - EXISTING SERVICE TO BE MAINTAINED BY BGE
PS - PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY BGE

REDLINE #4 7/26/13 APPROVED DENNIS DODA, TEAM LEADER, TEDD

STREET TRAFFIC STUDIES, LTD.
400 Cruth Hill, N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500 Fax (410) 590-6637

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION
MD 648 (B & A BLVD): FROM WELLHAM AVE TO MD 176 (DORSEY RD) FERNDALE, MD
GENERAL INFORMATION SHEET
SCALE NONE DATE 11-16-11 CONTRACT NO. XX6475185
DESIGNED BY R. ZACHERL COUNTY ANNE ARUNDEL
DRAWN BY R. CICCHINI LOGMILE
CHECKED BY TIMS NO. G799
F.A.P. NO. TOD NO.

596561.dgn T-73
PLOTTED: #DATETIME# FILE: #FILE#