

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE TRAFFIC SIGNAL WITH ACCESSIBLE PEDESTRIAN SIGNALS (APS) AND COUNTDOWN PEDESTRIAN SIGNALS (CPS) FOR THE NORTH, EAST AND WEST LEG CROSSINGS AT THE INTERSECTION OF MD 542 (LOCH RAVEN BOULEVARD) AND GLENDALE ROAD/DEANWOOD ROAD IN BALTIMORE COUNTY. MD 542 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULLY TRAFFIC-ACTUATED MODE. EXCLUSIVE/PERMISSIVE LEFT TURN PHASING WILL REMAIN FOR THE NB AND SB DIRECTIONS. THE MAINLINE PEDESTRIAN PHASE FOR THE EAST LEG AND THE ALTERNATIVE PEDESTRIAN PHASE FOR THE NORTH LEG SHALL REMAIN. A MAINLINE PEDESTRIAN PHASE FOR THE WEST LEG IS PROPOSED.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL ASC III CONTROLLER AND ASSOCIATED HARNESSSES IN A NEMA SIZE "S" BASE MOUNTED CABINET. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT, VIDEO DETECTION INTERFACE AND ALL OTHER ASSOCIATED EQUIPMENT AND HARNESSSES WITHIN THE CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS LOCH RAVEN BOULEVARD:

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS LOCH RAVEN AT GLENDALE AND DEANWOOD, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS GLENDALE ROAD:

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS GLENDALE AT LOCH RAVEN, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS DEANWOOD ROAD:

- A. WHEN A PEDESTRIAN LOCATES AND PASSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS DEANWOOD AT LOCH RAVEN, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

A NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

B F C G D H E J ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

K L M N O P Q R S T ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

U V W X Y Z ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)

AA BB CC PULL BACK EXISTING MICROLOOP LEAD-IN CABLES FROM NB MD 542

RR VV WW RE-ROUTE EXISTING MICROLOOP LEAD-IN CABLES FROM NB MD 542

DD EE FF PULL BACK EXISTING MICROLOOP LEAD-IN CABLES FROM SB MD 542

XX YY ZZ RE-ROUTE EXISTING MICROLOOP LEAD-IN CABLES FROM SB MD 542

GG PULL BACK EX. INTERCONNECT CABLE FROM LOCH HILL ROAD

HH RE-ROUTE EX. INTERCONNECT CABLE FROM LOCH HILL ROAD

JJ PULL BACK EX. INTERCONNECT CABLE FROM GOUCHER BOULEVARD

KK RE-ROUTE EX. INTERCONNECT CABLE FROM GOUCHER BOULEVARD

LL OO CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER

SS TT ELECTRICAL CABLE 1 - CONDUCTOR NO. 8 AWG-THIN/THWN

PPS PROPOSED UNDERGROUND POWER SERVICE (BG&E WILL FURNISH ELECTRICAL CABLE)

PTS PROPOSED TELEPHONE SERVICE TO BE INSTALLED BY OTHERS

- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
- EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Ms. Erin Kuhn  
Assistant District Engineer - Traffic  
Phone: 410-229-2381

Mr. Michael Pasquarillo  
District Utility Engineer  
Phone: 410-229-2341

Mr. Andre Futrell  
Assistant District Engineer - Maintenance  
Phone: 410-229-2361

OFFICE OF TRAFFIC AND SAFETY:

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

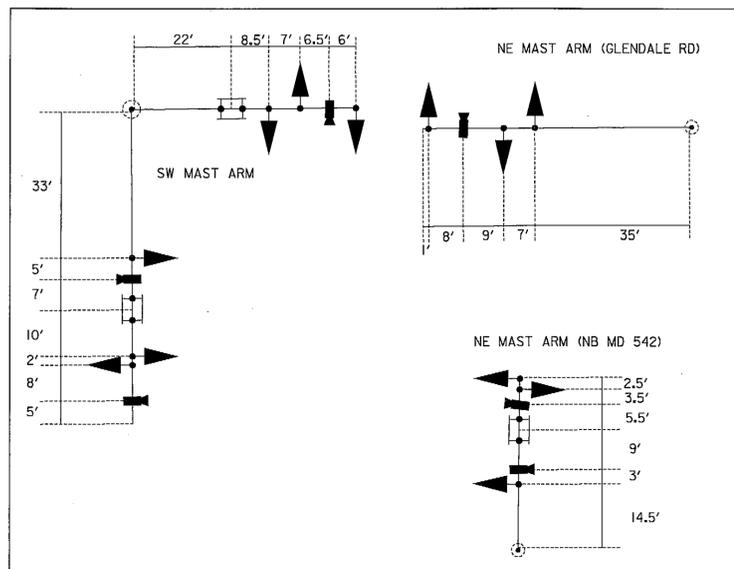
Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Chief Signal Operations  
Phone: 410-787-7650

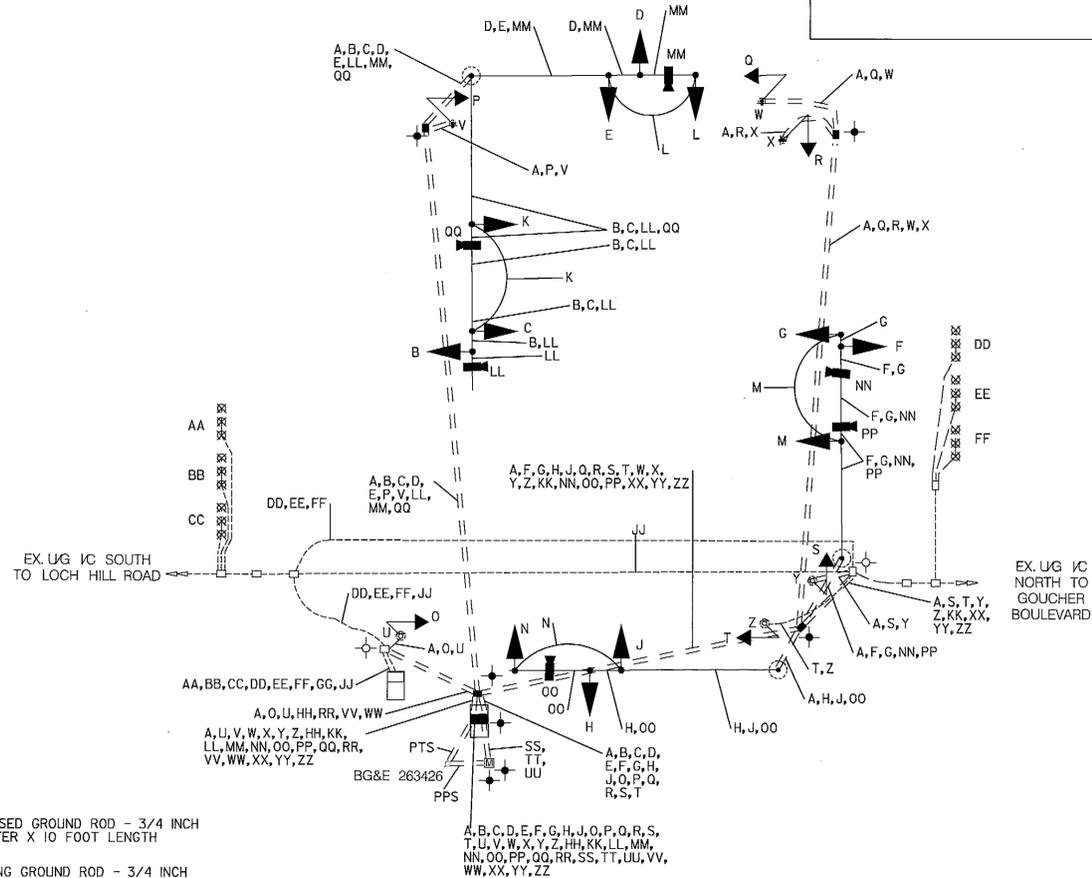
Mr. Eugene Bailey  
Chief Sign Operations  
410-787-7670

The Power Company is:  
BG&E CO.  
1068 Front Street  
Baltimore, MD  
Phone: 410-470-6795

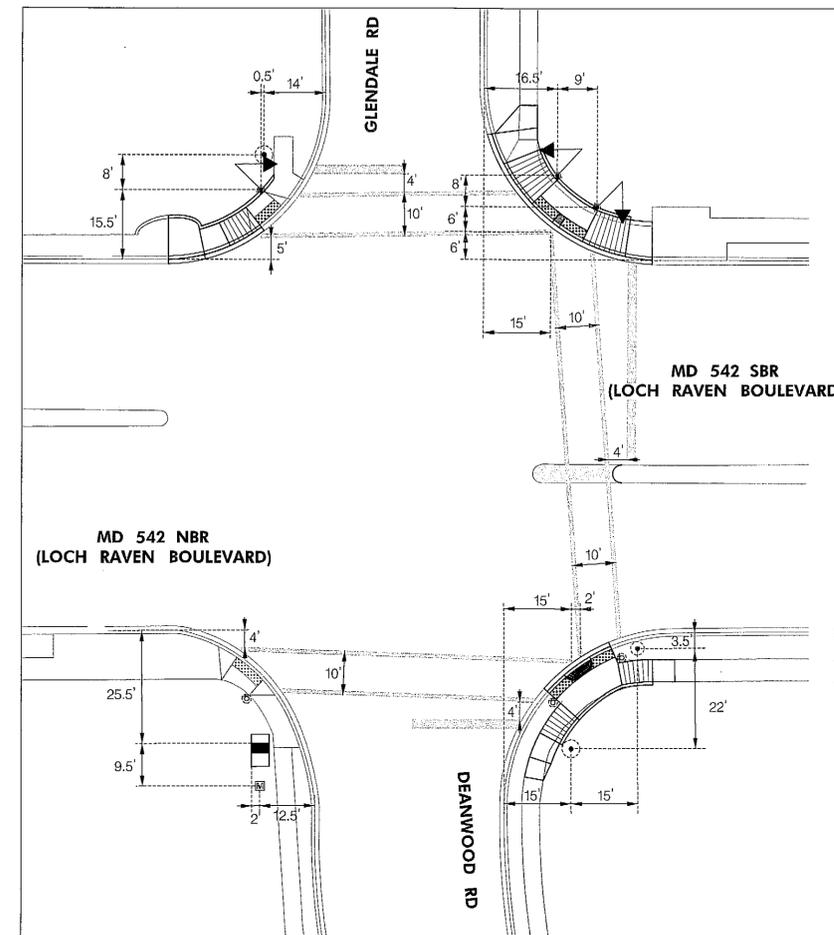
MAST ARM DETAIL (1"=20')



WIRING DIAGRAM



PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT - 1"=20'



**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 542 (LOCH RAVEN BOULEVARD)  
AND GLENDALE ROAD / DEANWOOD ROAD  
LOCH RAVEN, MARYLAND

**GENERAL INFORMATION SHEET (1 OF 2)**

SCALE NONE DATE 02/2013 CONTRACT NO. XY1515185

DESIGNED BY KXT COUNTY BALTIMORE  
DRAWN BY KXT LOGMILE 030054200.41  
CHECKED BY SDY TMS NO. L825  
F.A.P. NO. TOD NO.

TS NO. 2007E-GH DRAWING SG-02 OF 03 SHEET NO. 02 OF 03