

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE TRAFFIC SIGNAL WITH INTERSECTION LIGHTING, ACCESSIBLE PEDESTRIAN SIGNALS (APS), COUNTDOWN PEDESTRIAN SIGNALS (CPS) AND ADA RAMP MODIFICATIONS AT THE INTERSECTION OF MD 355 (FREDERICK ROAD) AND GUNNERS BRANCH ROAD IN MONTGOMERY COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULLY-TRAFFIC-ACTIVATED MODE. THE MAINLINE EXCLUSIVE-PERMISSIVE LEFT TURNS AS WELL AS THE MAINLINE AND ALTERNATE SIDE STREET PEDESTRIAN PHASES SHALL REMAIN.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE 'S' BASE MOUNTED CABINET. THE MONTGOMERY COUNTY SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT AND ALL OTHER ASSOCIATED EQUIPMENT AND HARNESSES WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

TO CROSS GUNNERS BRANCH ROAD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS GUNNERS BRANCH AT FREDERICK, 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 FREDERICK ROAD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS FREDERICK AT GUNNERS BRANCH AND SHOPPING CENTER, 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 SHOPPING CENTER ENTRANCE AT FREDERICK ROAD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS SHOPPING CENTER AT FREDERICK, WAIT".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

SPECIAL NOTES

- MONTGOMERY COUNTY SIGNAL SHOP SHALL INSTALL APS CONTROL UNIT INTO CONTROLLER CABINET. THE APS PUSH BUTTONS SHALL BE PROGRAMMED BY THE MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- ALL CONTROLLER CABINET WIRING WILL BE PERFORMED BY MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF INTENDED WORK.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Felecia Murphy
Assistant District Engineer - Traffic
Phone: 301-513-7404

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

Mr. Mark Shaffer
Assistant District Engineer - Maintenance
Phone: 301-513-7304

OFFICE OF TRAFFIC AND SAFETY:

Vacant
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

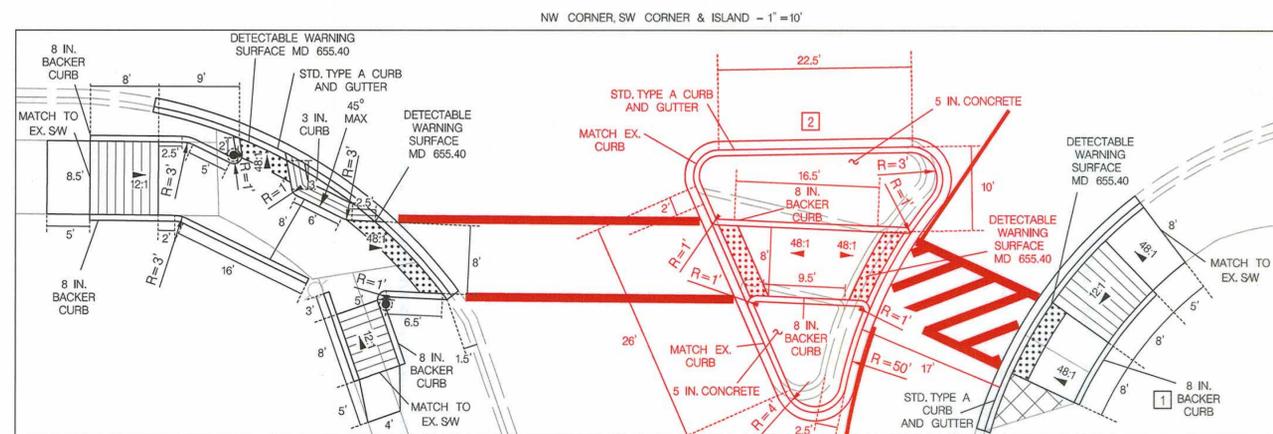
MONTGOMERY COUNTY:

Mr. Kamal Hamud
Traffic Engineering
240-777-8761

Mr. Bob Ricketts
Signal Shop
301-279-1975

The Power Company is:
PEPCO
Ms. Cheryl Hunt
201 W. Gude Drive
Rockville, MD 20850
Phone: 301-548-4329

ADA SIDEWALK RAMP DETAILS

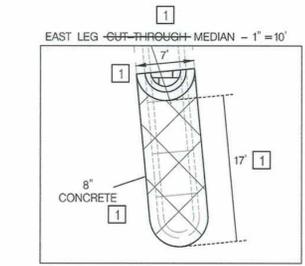
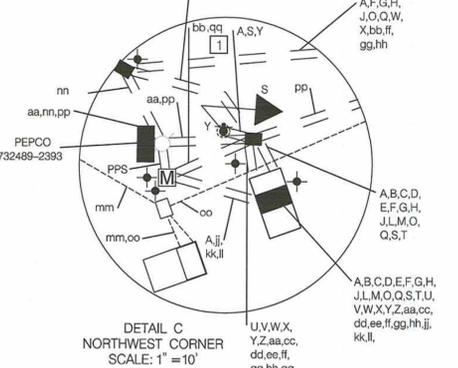
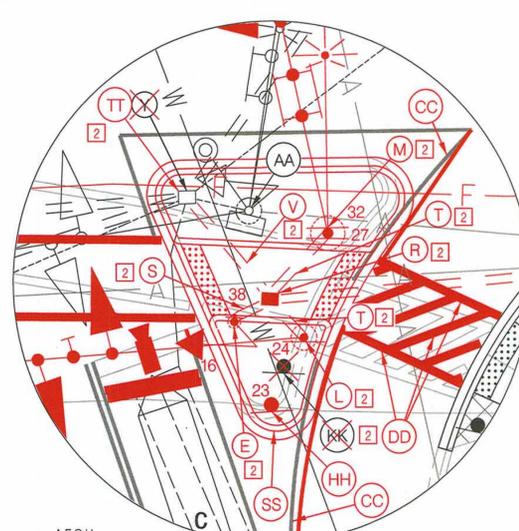
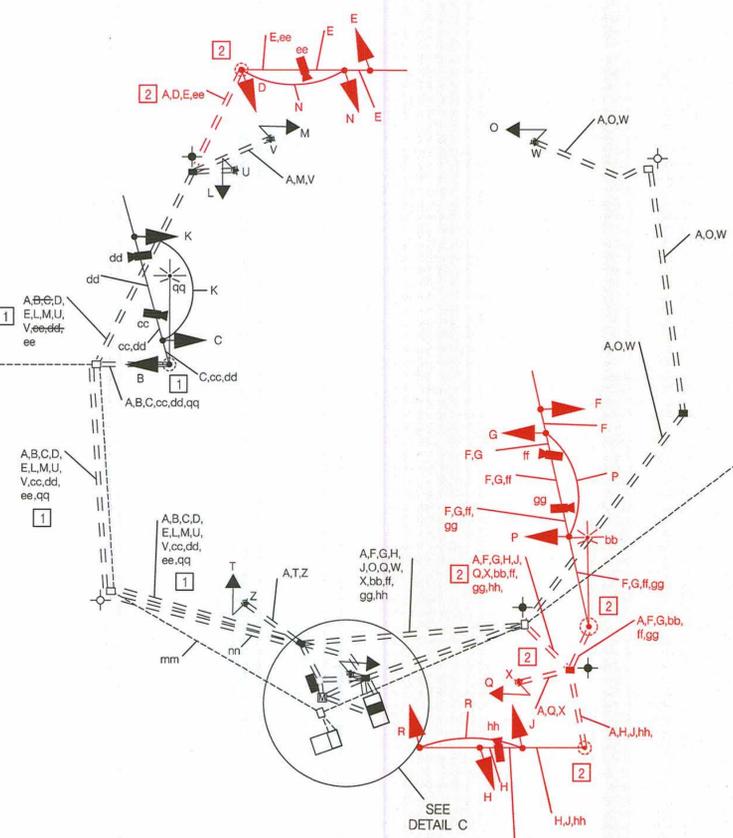


WIRING DIAGRAM (NOT TO SCALE)

- A NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- B F ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- C G H D H E J
- K P L Q M R N S O T
- U X V Y W Z

- 1 bb ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
- cc dd ee ff gg hh CONTROL CABLE - VIDEO DETECTION CAMERA TO CONTROLLER
- ii kk ll ELECTRICAL CABLE 1 - CONDUCTOR NO. 8 AWG-THHN/THWN
- mm nn oo pp

- oo PULL BACK EX. INTERCONNECT CABLE - FROM PLUMMER DR
- pp RE-ROUTE EX. INTERCONNECT CABLE - FROM PLUMMER DR
- qq 12-PAIR COMMUNICATION CABLE, JELLY-FILLED/UNDERGROUND
- PPS PROPOSED UNDERGROUND POWER SERVICE 1-CONDUCTOR ELECTRICAL CABLE, NO. 2/0 AWG/THHN
- EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
- PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH



2 REDLINE REVISION NO. 2 OCTOBER 2012
10/12/12
TEDD APPROVAL SHA NO. XX4395185

1 REDLINE REVISION NO. 1 SEPTEMBER 2012
ON FILE
TEDD APPROVAL SHA NO. XX4395185

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 355 (FREDERICK ROAD) AT GUNNERS BRANCH ROAD
FOX CHAPEL SHOPPING CENTER
GERMANTOWN, MARYLAND

GENERAL INFORMATION SHEET (1 OF 2)

SCALE NONE ADVERTISED DATE 03/2012 CONTRACT NO. XX4395185

DESIGNED BY KXT COUNTY MONTGOMERY
DRAWN BY KXT LOGMILE 15035517.82
CHECKED BY MTS TMS NO. K909
F.A.P. NO. TOD NO.

TS NO. 3395B-GI DRAWING SG-02 OF 03 SHEET NO. 02 OF 03

STV
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