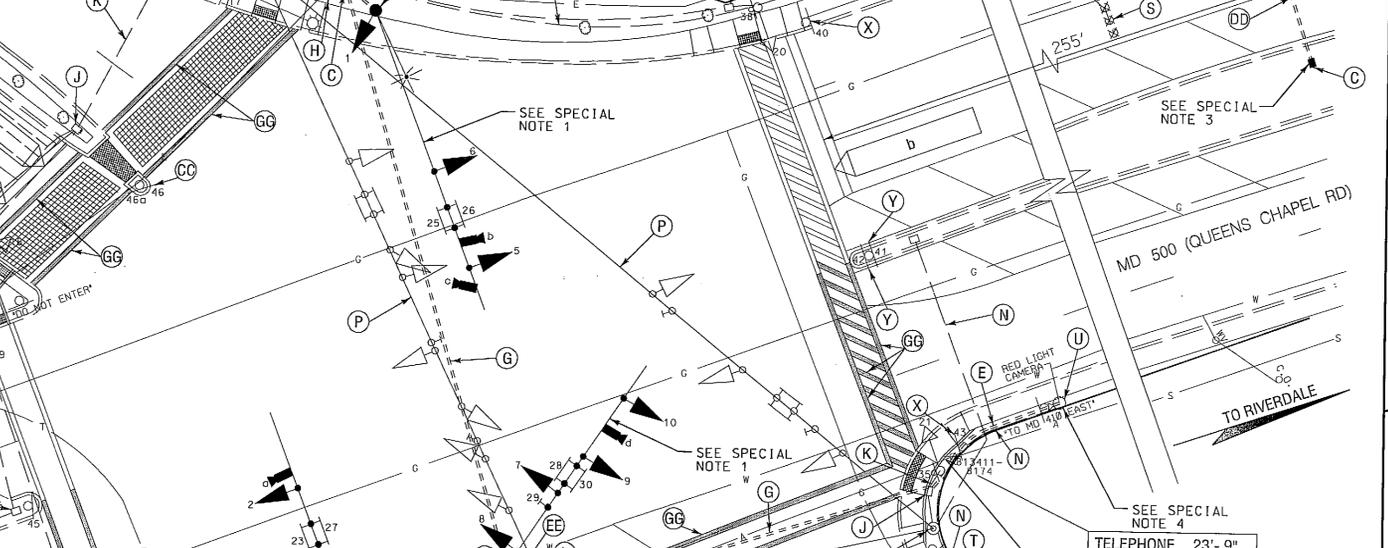


- CONSTRUCTION DETAILS**
- INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, VIDEO DETECTION CAMERAS MOUNTED ON MAST ARM, AND 15 FT. STREET LIGHTING ARM WITH A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
  - INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. (15'-0" T) STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
  - INSTALL HANDHOLE.
  - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
  - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
  - USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT). SEE SPECIAL NOTE 2.
  - USE EXISTING HANDHOLE.
  - REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
  - REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL HEADS, AND SIGNS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
  - CAP AND ABANDON EXISTING CONDUIT.
  - ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
  - REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
  - INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT (THRU LANE ONLY).
  - ABANDON EXISTING MICROLOOP PROBE SET. DISCONNECT AND REMOVE MICROLOOP PROBE CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
  - REMOVE EXISTING HANDHOLE.
  - PROPOSED 3 IN. PVC CONDUIT SHALL TIE INTO EXISTING CONDUIT BEND IN FOUNDATION.
  - REMOVE EXISTING SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.
  - INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (3 FT. LINE WITH 3 FT. GAP).
  - REMOVE EXISTING M6-2 (21 IN. x 15 IN.) AND INSTALL W16-7DL (24 IN. x 12 IN.) ON EXISTING WOOD SIGN SUPPORT.
  - REMOVE EXISTING M6-2 (21 IN. x 15 IN.) AND INSTALL W16-7DR (24 IN. x 12 IN.) ON EXISTING WOOD SIGN SUPPORT.
  - INSTALL W4-3(1) (30 IN. x 30 IN.) ON EXISTING WOOD SIGN SUPPORT, BELOW EXISTING "YIELD" SIGN.
  - INSTALL W11-2 (36 IN. x 36 IN.) AND W13-4(1) (36 IN. x 24 IN.) SIGNS ON TWO 4 IN. x 6 IN. TREATED WOOD POST.
  - INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. (15'-0" T) STEEL POLE WITH A 70 FT. MAST ARM, TRAFFIC SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERA MOUNTED ON MAST ARM. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN POLE BASE).
  - REMOVE EXISTING R4-7 (24 IN. x 30 IN.) ONLY AND INSTALL NEW R4-7 (24 IN. x 30 IN.) ON EXISTING SIGN SUPPORT.
  - INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT BORED.
  - INSTALL R7-1 (12 IN. x 18 IN.) SIGN ON ONE 4 IN. x 4 IN. TREATED WOOD POST.
  - REMOVE EXISTING AND INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINES.
  - REMOVE EXISTING AND INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.

- EXISTING SIGNALS TO REMAIN**
- 11-16
  - 17-22
  - 12" (R)
  - 12" (Y)
  - 8" (G)
  - 16" LED COUNTDOWN PEDESTRIAN SIGNAL
- EXISTING SIGNALS TO BE REMOVED**
- 46a
  - 51a
  - R4-7 (24"x30")
  - R7-1 (12"x18")

- PROPOSED SIGNALS**
- 1,2,4,5
  - 3,6,8,10
  - 7,9
  - 12" (R)
  - 12" (Y)
  - 12" (G)
  - VIDEO ZONE DETECTION
  - PROPOSED VIDEO DETECTION CAMERA
- PROPOSED SIGNALS**
- 24
  - 28,30
  - 29
  - NO TURN ON RED
  - Queens Chapel Rd
  - D-3(1) (VAR. x16") DUAL FACE
  - R10-11b (24"x24")
  - 23
  - Queensbury Rd
  - D-3(1) (VAR. x16") DUAL FACE
  - 27
  - Queensbury Rd
  - D-3(1) (VAR. x16") DUAL FACE
  - 51
  - NO PARKING ANY TIME
  - R7-1 (12"x18")
  - 50
  - ACROSS RAMP
  - W11-2 (36"x36")
  - W13-4(1) (36"x24")



- GENERAL NOTES**
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
  - THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER'S SHA ENGINEER.
  - VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
  - THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
  - ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
  - REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
  - THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
  - REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT.
  - ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
  - THE CONTRACTOR SHALL CONTACT MR. MICHAEL A. STOCKER AT (410) 787-7656 AT THE DOT'S SIGNAL WAREHOUSE 72 HOURS IN ADVANCE TO ARRANGE FOR PICKUP OF ANY EQUIPMENT WHICH IS TO BE SUPPLIED BY SHA.
  - THE CONTRACTOR SHALL CONTACT MR. ED RODENHISER AT (410) 787-7652 AT THE DOT'S SIGNAL SHOP 72 HOURS IN ADVANCE OF STARTING WORK.

**TELEPHONE**

- 20'-1"
- 27'-0"
- 35'-5"
- 37'+
- 39'+
- 40'+

**TELEPHONE**

- 17'-3"
- 23'-6"
- 31'-8"
- 35'+
- 37'+
- 39'+
- 40'+

**TELEPHONE**

- 23'-9"
- 26'-5"
- 31'+
- 33'+
- 35'+
- 40'+

**SPECIAL NOTES:**

- THE CONTRACTOR SHALL NOT BLOCK VIEW OF EXISTING SIGNAL INDICATIONS DURING INSTALLATION OF MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO CONFLICT WITH EXISTING SIGNAL INDICATIONS OR SPAN WIRES, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL COORDINATE WITH SHA FORCES TO SHUTDOWN SIGNAL OPERATION TO PULL BACK EXISTING SIGNAL CABLES AND RE-FEED PROPOSED SIGNAL CABLES THROUGH EXISTING HANDBOX AND CONDUITS INTO CABINET BASE. THIS SHALL BE DONE IN ONE NIGHTTIME SHIFT.
- INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.
- THE CONTRACTOR SHALL CONTACT MR. CHARLES TURNER AT (410) 365-7547 TO COORDINATE ELECTRICAL CABLE CONNECTION TO EXISTING RED LIGHT CAMERAS.

**GEOMETRIC LEGEND**

- EXISTING
- PROPOSED

**UTILITY LEGEND**

- SD - STORM DRAIN
- G - GAS MAIN
- W - WATER MAIN
- S - SEWER MAIN
- E - ELECTRIC CABLES
- A - AERIAL CABLES
- T - TELEPHONE CABLES
- F - FIBER-OPTIC

**APPROVALS**

**REVISIONS**

TRAFFIC SIGNAL RECONSTRUCTION

CONTRACT NO. XX3545168R 2/11/2011

DESIGNED BY JFL/JFF COUNTY PRINCE GEORGE'S

DRAWN BY JFL/JFF LOGMILE 16050002.08

CHECKED BY BDH TMS NO. K052

F.A.P. NO. M-519711F TOD NO.

TS NO. 589-F DRAWING TSP-01 OF 3 SHEET NO. 1 OF 3

**STATE OF MARYLAND**

**DEPARTMENT OF TRANSPORTATION**

**STATE HIGHWAY ADMINISTRATION**

**SHA**

OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION

MD 500 (QUEENS CHAPEL RD)

AND MD 410A (BELCREST RD)/QUEENSBURY RD

(HYATTSVILLE, MARYLAND)

**TRAFFIC SIGNALIZATION PLAN**

SCALE 1" = 20' DATE 5-25-1974 1 CONTRACT NO. XX3545168R

DESIGNED BY JFL/JFF COUNTY PRINCE GEORGE'S

DRAWN BY JFL/JFF LOGMILE 16050002.08

CHECKED BY BDH TMS NO. K052

F.A.P. NO. M-519711F TOD NO.

TS NO. 589-F DRAWING TSP-01 OF 3 SHEET NO. 1 OF 3

PLOTTED: 02-29-2011

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BY: jrasmusen

**WR&A**

**WHITMAN, REQUARDT & ASSOCIATES, LLP**

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