



EXISTING SIGN TO BE RELOCATED

EXISTING SIGNS

EXISTING SIGNALS TO REMAIN

EXISTING SIGNAL TO BE RELOCATED

PROPOSED SIGNALS

PROPOSED SIGNS

NEMA PHASING

FIREHOUSE PRE-EMPTION

MD 500 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

31,32
FIRE HOUSE SIGNAL
72"x36"

39
STOP HERE ON RED
R10-6
24"x36"

47,48
FOR USE OF AUTHORIZED AND EMERGENCY VEHICLES ONLY
R5-3(1)
24"x30"

45
NO MERGE AREA
R4-7
24"x30"

49
NO MERGE AREA
R1-2
36"x36"x36"

40,43
WALKING
S1-1
36"x36"

41,42
WALKING
S1-1
36"x36"

44
WALKING
W11-2
36"x36"

EXISTING SIGNS TO BE REMOVED

46a
NO PARKING ANY TIME
R4-7
24"x30"

51a
NO PARKING ANY TIME
R7-1
12"x18"

CONSTRUCTION DETAILS

- A. 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).
- B. 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).
- C. INSTALL HANDHOLE.
- D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- E. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- H. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER (NOT 1). SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT. SEE SPECIAL NOTE 2.
- J. USE EXISTING HANDHOLE.
- K. USE EXISTING CONDUIT.
- L. REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL HEADS, SIGNS, AND VIDEO DETECTION CAMERAS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.
- M. REMOVE EXISTING STRAIN POLE, PEDESTRIAN SIGNAL HEADS, AND SIGNS. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
- N. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- P. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
- Q. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT (THRU LANE ONLY).
- R. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT (THRU LANE ONLY).
- S. ABANDON EXISTING MICROLOOP PROBE SET. DISCONNECT AND REMOVE MICROLOOP PROBE CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- T. REMOVE EXISTING HANDHOLE.
- U. PROPOSED 3 IN. PVC CONDUIT SHALL TIE INTO EXISTING CONDUIT BEND IN FOUNDATION.
- V. REMOVE EXISTING SIDEWALK AND INSTALL 5 IN. CONCRETE SIDEWALK.
- W. INSTALL 5 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (3 FT. LINE WITH 3 FT. GAP).
- X. REMOVE EXISTING M6-2 (21 IN. x 15 IN.) AND INSTALL W16-7DL (24 IN. x 12 IN.) ON EXISTING WOOD SIGN SUPPORT.
- Y. REMOVE EXISTING M6-2 (21 IN. x 15 IN.) AND INSTALL W16-7DR (24 IN. x 12 IN.) ON EXISTING WOOD SIGN SUPPORT.
- Z. INSTALL W4-3(1) (30 IN. x 30 IN.) ON EXISTING WOOD SIGN SUPPORT, BELOW EXISTING "YIELD" SIGN.
- AA. INSTALL W1-2 (36 IN. x 24 IN.) AND W13-4(1) (36 IN. x 24 IN.) SIGNS ON TWO 4 IN. x 6 IN. TREATED WOOD POST.
- BB. INSTALL CONCRETE FOUNDATION WITH A 16.5 FT. (15'-0" T) STEEL POLE WITH A 60 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).
- CC. REMOVE EXISTING R4-7 (24 IN. x 30 IN.) ONLY AND INSTALL NEW R4-7 (24 IN. x 30 IN.) ON EXISTING SIGN SUPPORT.
- DD. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- EE. INSTALL R7-1 (12 IN. x 18 IN.) SIGN ON ONE 4 IN. x 4 IN. TREATED WOOD POST.
- FF. REMOVE EXISTING AND INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINES.
- GG. REMOVE EXISTING AND INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
- HH. REMOVE EXISTING CUT PEDESTRIAN POLE, R10-3(1) SIGN, AND TRANSFORMER BASE ONLY. INSTALL 10 FT. STEEL PEDESTAL POLE ON EXISTING CONCRETE FOUNDATION WITH BREAKAWAY BASE STANDARD NO. MD 801.01-01 AND R10-3(1) SIGN. (SIGN TO READ "PUSH BUTTON TO CROSS BELCREST ROAD"). RELOCATE EXISTING COUNTDOWN PEDESTRIAN SIGNAL HEAD FROM EXISTING STRAIN POLE AND RELOCATE EXISTING AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON FROM THE EXISTING CUT PEDESTRIAN POLE TO PROPOSED STEEL PEDESTAL POLE WITHIN ONE WORKING DAY IN ORDER TO MAINTAIN EXISTING PEDESTRIAN SIGNAL OPERATIONS.

GENERAL NOTES

1. 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 816.01, MD 816.02, MD 816.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
2. 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.
3. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
4. THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
5. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
6. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
8. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
9. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
10. REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT.
11. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
12. THE CONTRACTOR SHALL CONTACT MR. MICHAEL A. STOCKER AT (410) 787-7696 AT THE OOTS SIGNAL WAREHOUSE 72 HOURS IN ADVANCE TO ARRANGE FOR PICKUP OF ANY EQUIPMENT WHICH IS TO BE SUPPLIED BY SHA.
13. THE CONTRACTOR SHALL CONTACT MR. ED RODENHISER AT (410) 787-7652 AT THE OOTS/SIGNAL SHOP 72 HOURS IN ADVANCE OF STARTING WORK.

- SPECIAL NOTES:**
1. 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.
 2. THE CONTRACTOR SHALL COORDINATE WITH SHA FORCES TO SHUT DOWN SIGNAL OPERATION TO PULL BACK EXISTING SIGNAL CABLES AND RE-FEED PROPOSED SIGNAL CABLES THROUGH EXISTING HANDHOLE AND CONDUITS INTO CABINET BASE. THIS SHALL BE DONE IN ONE NIGHTTIME SHIFT.
 3. 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.
 4. THE CONTRACTOR SHALL CONTACT MR. CHARLES TURNER AT (410) 365-1547 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

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 500 (QUEENS CHAPEL RD)
AND MD 410A (BELCREST RD)/QUEENSBURY RD
(HYATTSVILLE, MARYLAND)

WR&A
WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

APPROVALS

TEAM LEADER: [Signature]

ASST. DIV. CHIEF: [Signature]

OFFICE DIRECTOR: [Signature]

REVISIONS

1. REDLINE REVISION NO. 1 RELOCATED EX. PED SIGNAL & SIGN CONTRACTOR SHA NO. XX3545168R 10/18/2011

2. TRAFFIC SIGNAL RECONSTRUCTION CONTRACT NO. XX3545168R 2/11/2011

TRAFFIC SIGNALIZATION PLAN

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

DESIGNED BY JEL/JFF COUNTY PRINCE GEORGE'S

DRAWN BY JEL/JFF LOGMILE 16050002.08

CHECKED BY BDH TMS NO. K052

F.A.P. NO. M-5187(1)F TOD NO.

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

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