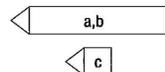




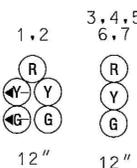
PROPOSED IP-BASED VIDEO DETECTION



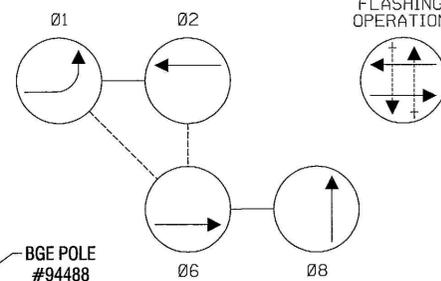
PROPOSED VIDEO DETECTION ZONES



PROPOSED LED SIGNALS

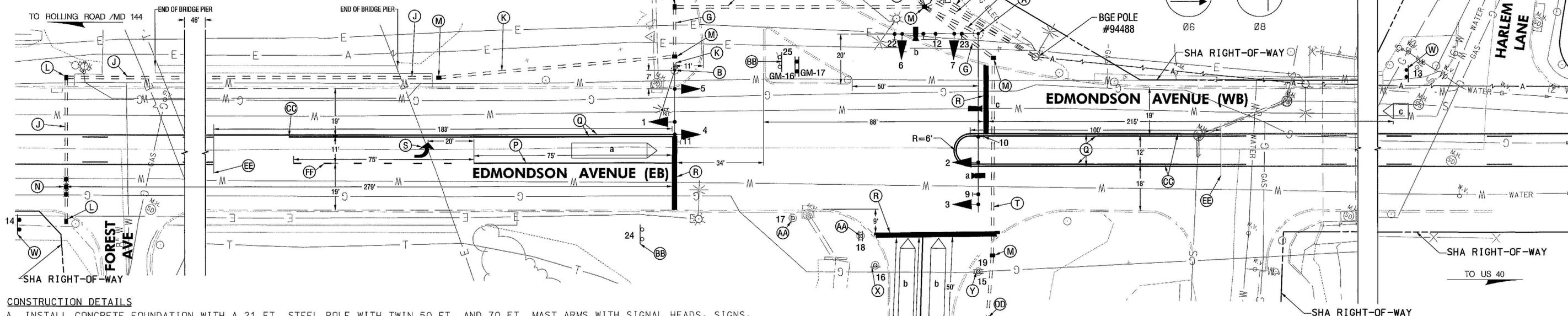


NEMA PHASING



NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

EDMONDSON AVENUE IS ASSUMED TO RUN IN AN EAST / WEST DIRECTION

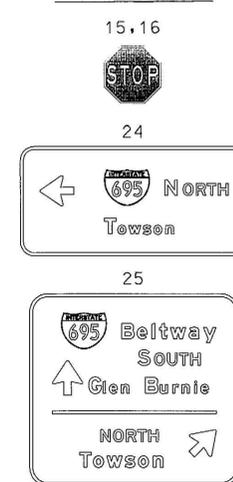


CONSTRUCTION DETAILS

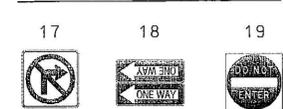
- A. INSTALL CONCRETE FOUNDATION WITH A 21 FT. STEEL POLE WITH TWIN 50 FT. AND 70 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, IP-BASED VIDEO DETECTION CAMERAS, AND 250 WATT HPS LUMINAIRE WITH PHOTOCCELL. (NOTE: ONE (1) 3 IN. PVC SCHEDULE 80 CONDUIT BEND.)
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH 38 FT. MAST ARM WITH SIGNAL HEADS, AND A 15 FT LIGHTING ARM. (NOTE: ONE (1) 3 IN. PVC SCHEDULE 80 CONDUIT BEND.)
- C. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ALL NECESSARY CONTROLLER EQUIPMENT AND DETECTION EQUIPMENT. (NOTE: TWO (2) 4 IN. PVC AND TWO 2 IN. PVC SCHEDULE 80 CONDUIT BENDS.)
- D. INSTALL A NEMA SIZE 5 BASE MOUNTED CABINET WITH UPS BATTERY BACK-UP SYSTEM. (NOTE: ONE (1) 2 IN. PVC SCHEDULE 80 CONDUIT BEND.)
- E. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT CONDUIT BEND AT BASE OF UTILITY POLE.
- F. INSTALL A 200 AMP EMBEDDED METERED SERVICE PEDASTAL. (NOTE: ONE 4 IN. AND THREE 2 IN. SCHEDULE 80, 90 DEGREE CONDUIT BENDS IN PEDESTAL BASE.)
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- H. INSTALL ONE (1) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - BORED.
- J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- K. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- L. INSTALL HANDHOLE WITH LONGER DIMENSIONS PERPENDICULAR TO THE ROADWAY FOR NON-INVASIVE DETECTORS.
- M. INSTALL HANDHOLE.
- N. INSTALL NON-INVASIVE MICROLLOOP PROBES WITH 500 FT. LEAD-IN CABLE (TO BE PLACED IN THROUGH LANE ONLY PER SHA STANDARD MD 815.03).
- P. INSTALL 5 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS.
- Q. INSTALL 5 IN. YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS.
- R. INSTALL 24 IN. HEAT APPLIED, WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINES.
- S. INSTALL WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS.
- T. INSTALL ONE (1) 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - SLOTTED.
- U. INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3 TURNS).
- V. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
- W. INSTALL GROUND MOUNTED SIGN ON TWO (4 IN. X 6 IN.) WOOD SUPPORTS. AFTER ONE HUNDRED AND TWENTY (120) DAYS THE NEW TRAFFIC SIGNAL WARNING SIGN ASSEMBLIES SHOULD BE REMOVED.
- X. REMOVE EXISTING STOP SIGN AND POST AND EXISTING GROUND MOUNTED GUIDE SIGNS AFTER SIGNAL IS OPERATIONAL.
- Y. REMOVE EXISTING STOP SIGN AFTER SIGNAL IS OPERATIONAL. EXISTING "DO NOT ENTER" SIGN TO REMAIN.
- Z. INSTALL SIGN WITH BAND SUPPORTS TO EXISTING POLE.
- AA. EXISTING SIGNS TO REMAIN.
- BB. EXISTING SIGNS TO BE REMOVED.
- CC. REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL PROPOSED PAVEMENT MARKINGS AS INDICATED.
- DD. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- EE. TIE-IN PROPOSED PAVEMENT MARKINGS TO EXISTING PAVEMENT MARKINGS.
- FF. INSTALL 5 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, 3'-9' SKIP.
- GG. INSTALL SIGN ON ONE (1) 4'X4' WOOD SUPPORT.
- HH. INSTALL 2 INCH PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. STUB UP CONDUIT 2 FEET ABOVE GRADE AT UTILITY.

NB I-695 OFF RAMP (RAMP F)

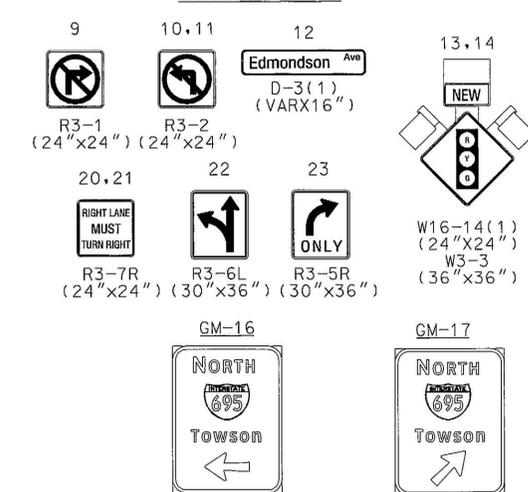
EXISTING SIGNS TO BE REMOVED



EXISTING SIGNS TO REMAIN



PROPOSED SIGNS

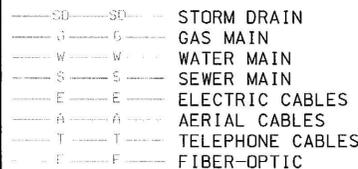


*SEE GI SHEET FOR DETAILS ON GROUND MOUNTED EXTRUDED ALUMINUM SIGNS. SEE CS-23 FOR CROSS SECTION FOR GM 16 /17.

GEOMETRIC LEGEND



UTILITY LEGEND



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APPROVALS	REVISIONS
<i>[Signature]</i> 8/31/10	
<i>[Signature]</i> 9/1/10	
<i>[Signature]</i> 9/1/10	
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SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 EDMONDSON AVENUE AT I-695 INNER LOOP RAMP

CATONSVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE: 1" = 20' DATE: SEPTEMBER 2010 CONTRACT NO.: BA2725380

DESIGNED BY: B. RINKER COUNTY: BALTIMORE
 DRAWN BY: B. RINKER LOGMILE:
 CHECKED BY: J. PALADJUGUS.DU T.I.M.S. NO.:
 F.A.P. NO.: SEE TITLE SHEET TOD NO.:

TS NO. 4772 DRAWING NO. pSG OF P008 SHEET NO. 198 OF 235