

BORDER REV. DATE: MARCH 12 2008 07

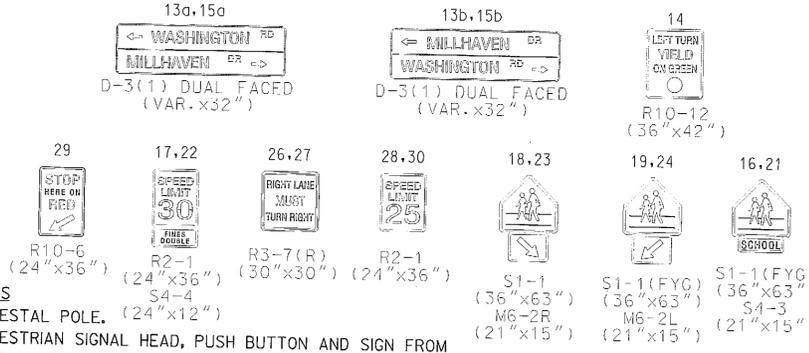
MD 253 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

DRILL HOLES

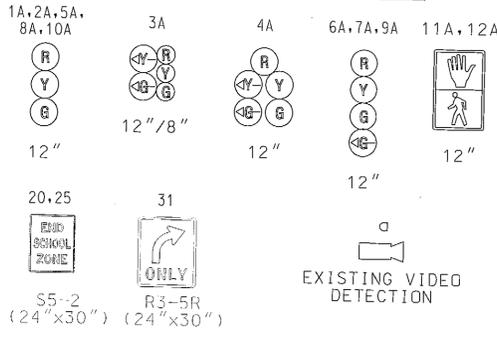
DRILL HOLES

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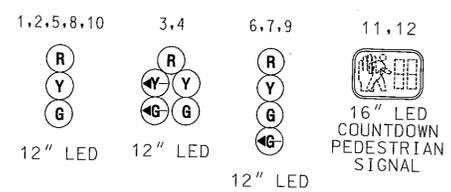
EXISTING SIGNS



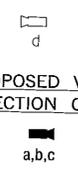
EXISTING SIGNALS TO BE REMOVED



PROPOSED SIGNALS



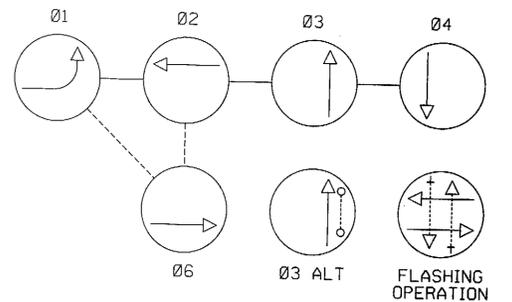
REMOVE EXISTING VIDEO DETECTION CAMERA



PROPOSED VIDEO DETECTION CAMERA



NEMA PHASING

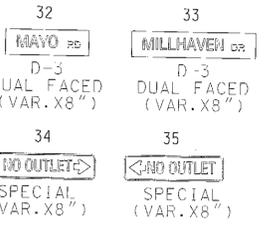


NOTE: PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

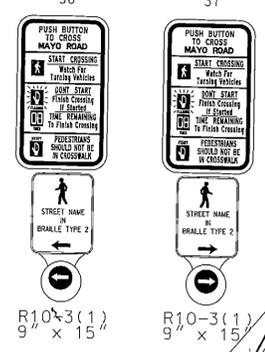
GENERAL NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. REMOVE ALL POLE FOUNDATIONS 12 INCHES BELOW GRADE.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED FROM TRAFFIC SIGNAL CONDUITS.
6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS CONTACT THE PROJECT ENGINEER.
7. 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.
8. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
9. CONTRACTOR TO REMOVE EXISTING LANDSCAPE AS NECESSARY TO INSTALL TRAFFIC SIGNAL EQUIPMENT.
10. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
11. RIGHT-OF-WAY INFORMATION AS SHOWN ON SIGNAL PLAN OF RECORD.

- CONSTRUCTION DETAILS
A REMOVE EXISTING PEDESTAL POLE. (24"x12")
B REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SIGN FROM SIGNAL POLE AND INSTALL A NEW 16 INCH COUNTDOWN LED SIGNAL HEAD, APS PUSHBUTTON AND SIGN.
C INSTALL 3 INCH RIGID PVC CONDUIT - TRENCHED.
D USE EXISTING HANDHOLE.
E USE EXISTING CONDUIT.
F ADJUST EXISTING HANDHOLE.
G INSTALL AN 18" BY 36" CONCRETE FOUNDATION WITH A 10 FOOT PEDESTAL POLE WITH A NEW 16 INCH COUNTDOWN LED SIGNAL HEAD, APS PUSHBUTTON AND SIGN (1- 3" CONDUIT BEND) (STANDARD NO. 801.01-01).
H INSTALL 4 INCH RIGID PVC CONDUIT - TRENCHED.
I INSTALL EMBEDDED METER SERVICE PEDESTAL.
J INSTALL 2 INCH RIGID PVC CONDUIT - TRENCHED.
K REMOVE EXISTING POLE MOUNTED CONTROLLER.
L REMOVE EXISTING METER AND DISCONNECT SWITCH. COORDINATE WITH BGE.
M INSTALL NON-INVASIVE MICROLOOP PROBES.
N INSTALL 3 INCH RIGID PVC CONDUIT - BORED.
O STUB OUT CONDUIT 1 FOOT ABOVE GROUND AT BASE OF POLE AND FURNISH PVC RISER FOR BGE USE.
P INSTALL ELECTRICAL HANDHOLE.
Q ABANDON EXISTING DETECTOR.
R INSTALL 3 INCH RIGID PVC CONDUIT - SLOTTED.
S INSTALL 4 INCH RIGID PVC CONDUIT - BORED.
T INSTALL A NEMA SIZE "S" BASE MOUNTED CABINET WITH UNINTERRUPTIBLE POWER SUPPLY, BATTERY PACK, AND CONTROLLER WITH ELECTRICAL UTILITY SERVICE EQUIPMENT FOR UNDERGROUND SERVICE. INSTALL APS CENTRAL CONTROL UNIT (NOTE: TWO 4 IN. AND TWO 2 IN. PVC SCHEDULE 80 CONDUIT BENDS)
U ABANDON EXISTING LOOP DETECTORS.
V ADJUST EXISTING UTILITY POLE GUY WIRE.
W REMOVE EXISTING CROSSWALK MARKINGS.
X INSTALL 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES.



PROPOSED SIGNS



EXISTING SIGNS TO BE REMOVED



- CC REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW TRAFFIC SIGNAL HEADS ON MASTARM.
DD REMOVE EXISTING SIGNAL HEADS AND INSTALL NEW TRAFFIC SIGNAL HEADS AND NEW VIDEO DETECTION CAMERAS ON MASTARM.

APS PUSHBUTTON NOTES:

- 1. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
2. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
3. PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG 4E.2 AND NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
4. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
5. SIGNAL POLES WITH PUSHBUTTONS MAY HAVE THE FOUNDATION INSTALLED AS PART OF THE CURB OR SIDEWALK AS DIRECTED BY THE ENGINEER.

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BY: Joost Van Boekhold Division: P088 Highway Traffic/GMA Emp

GEOMETRIC LEGEND and UTILITY LEGEND tables defining symbols for existing and proposed features and underground utilities like storm drains, gas mains, water mains, sewer mains, electric cables, aerial cables, telephone cables, and fiber-optic.

Table with columns for APPROVALS and REVISIONS, detailing project milestones and changes.

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION. Includes project title, scale, date, and drawing information.

TOD NO: XY139-04
SHA NO: AA189854
MD 2, MD 214A, MD 253 Various Locations

PLOTTED: 08:54 AM on Tuesday, January 15, 2013
FILE: M:\2008\01080019.01\drawing\189-P007_M02.dgn