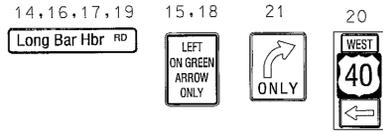


US 40 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

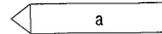
EXISTING SIGNS



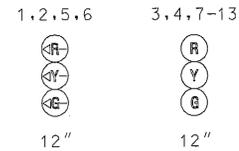
PROPOSED VIDEO DETECTION CAMERA

a, b, c, d

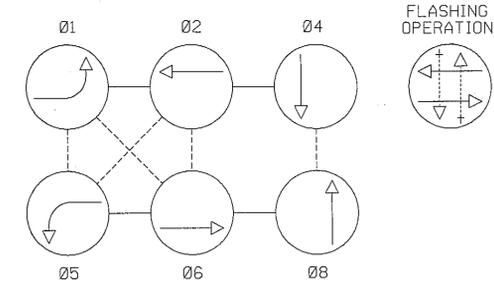
VIDEO ZONE DETECTION



EXISTING SIGNALS

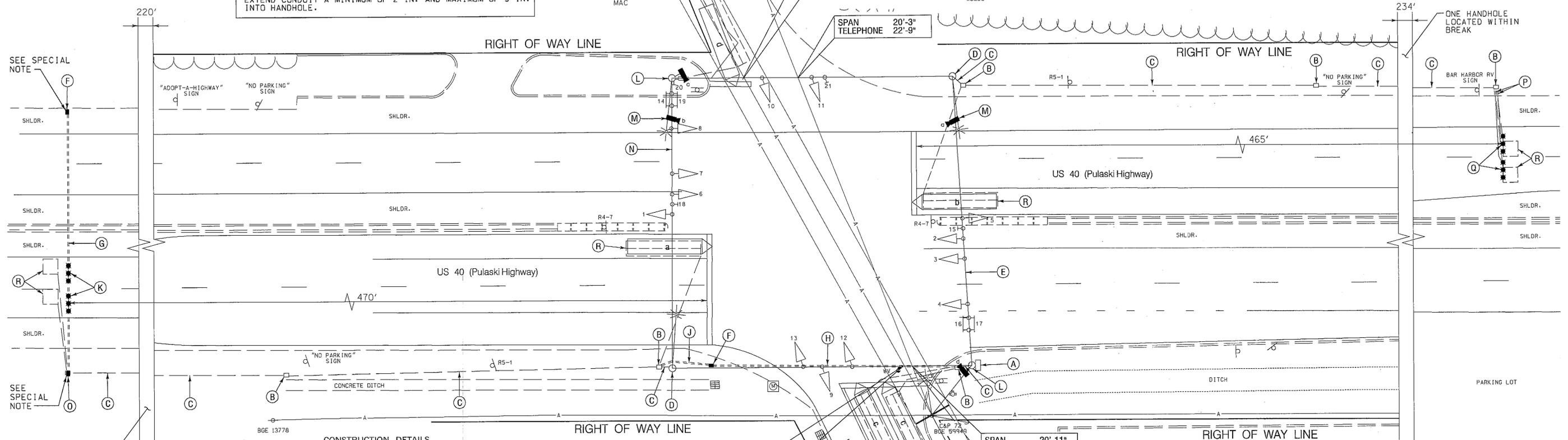


NEMA PHASING



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

SPECIAL NOTE: 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.



- CONSTRUCTION DETAILS**
- A. USE EXISTING POLE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT DETECTOR RACK AND CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
  - B. USE EXISTING HANDHOLE.
  - C. USE EXISTING CONDUIT.
  - D. USE EXISTING STRAIN POLE.
  - E. USE EXISTING SPAN WIRE.
  - F. INSTALL HANDHOLE.
  - G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
  - H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
  - J. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - K. INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
  - L. USE EXISTING STRAIN POLE AND INSTALL NEW OVERHEAD VIDEO DETECTION CAMERA MOUNTED WITHIN 3 FT. OF TOP OF STRAIN POLE AS SHOWN.
  - M. USE EXISTING LIGHTING BRACKET AND INSTALL VIDEO DETECTION CAMERA AS SHOWN.
  - N. USE EXISTING SPAN WIRE. RE-RING EXSITING SPAN WIRE WITH 4 INCH MESSENGER RINGS.
  - O. REMOVE EXISTING HANDHOLE AND INSTALL NEW HANDHOLE 90 DEGREES TO ROADWAY. HANDHOLE TO BE INSTALLED ON TOP OF EXISTING CONDUIT HEADING EAST LEAVING 6 IN. PROTRUDING INTO NEW HANDHOLE.
  - P. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT. (FOR DETECTOR WIRE SLEEVE)
  - Q. INSTALL MICROLOOP PROBE SET WITH 1,000 FT. LEAD-IN (TO BE PLACED IN THRU LANE ONLY).
  - R. ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.

GENERAL NOTES

1. 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.
2. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
4. REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
US 40 (Pulaski Highway) at  
Long Bar Harbor Road

| APPROVALS   | REVISIONS  |
|---|--|
| <p>TEAM LEADER</p> <p>ASST. DIR. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p> | <p>① UPGRADE VIDEO DETECTION ON ALL LEGS<br/>INSTALL NON-INVASIVE PROBES. ASBUILT<br/>SHA NO. XX3565168 TMS J631 10/30/2009</p> <p>② INSTALL LOOP DETECTION DUE TO<br/>WIDENING. - TMS # F168<br/>SHA NO. BW936M2 01/21/1999</p> <p>③ UPGRADE TO FULL COLOR SIGNAL<br/>SHA NO. HA 9255177<br/>TMS # D164<br/>JANUARY 21, 1999</p> <p>DMC   KW   DJD   DAZ   BRK   TH</p> |

**TRAFFIC SIGNALIZATION PLAN**

SCALE 1" = 20' ADVERTISED DATE 10/23/2009 CONTRACT NO. AW-454-501-485

DESIGNED BY Bruce Thompson COUNTY Harford

DRAWN BY Bruce Thompson LOGMILE 10224006.85

CHECKED BY D. Doda TMS NO. J631

F.A.P. NO. CMG-STPG-000S(134) TOD NO.

TS NO. 3361 C DRAWING TSP-8 OF 13 SHEET NO. 8 OF 13

PLOTTED: 11-02-2009  
FILE: n:\31669-033\cadd\p50-P008\_j631.dgn

BY: sbloss

TOD NO. X356-06  
SHA NO. X356168  
TMS # J631  
IN HARFORD CO.