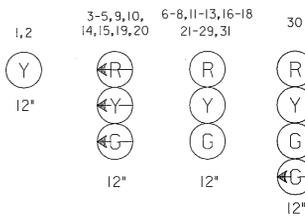


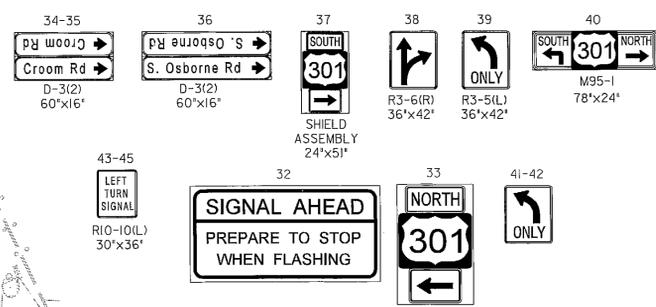
**EXISTING SIGNAL HEADS TO REMAIN**



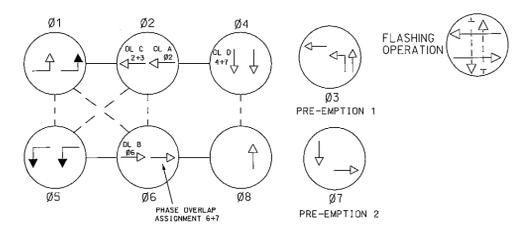
**PROPOSED SIGNS**



**EXISTING SIGNS TO REMAIN**



**NEMA PHASING**



**PHASING NOTES:**  
 1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.  
 2. PHASES ASSOCIATED BY A DASHED LINE MAY WILL OPERATE CONCURRENTLY.

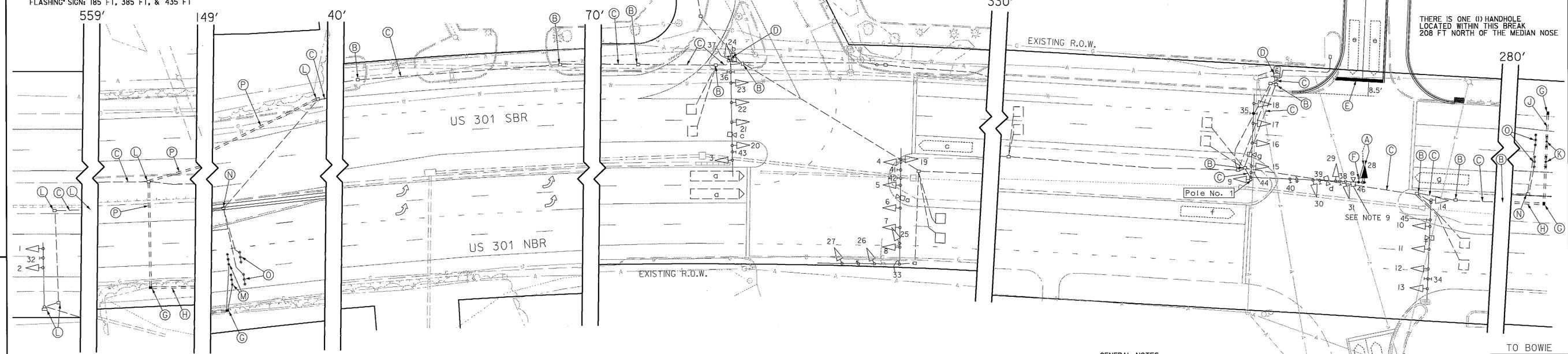
**EXISTING VIDEO DETECTION**



THERE ARE THREE (3) HANDHOLES LOCATED WITHIN THIS BREAK AT THE FOLLOWING DISTANCES NORTH OF THE 'SIGNAL AHEAD WHEN FLASHING' SIGN: 185 FT, 385 FT, & 435 FT

THERE IS ONE (1) HANDHOLE WITH NORTHBOUND SETBACK DETECTION FOR CROOM ROAD LOCATED 719 FT NORTH OF THE MEDIAN NOSE. THERE IS ONE RED LIGHT CAMERA LOCATED WITHIN THIS BREAK.

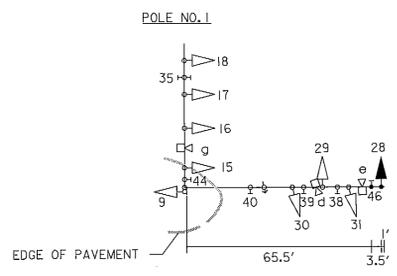
THERE IS ONE (1) HANDHOLE LOCATED WITHIN THIS BREAK 208 FT NORTH OF THE MEDIAN NOSE



**CONSTRUCTION DETAILS**

- A. RELOCATE EXISTING VEHICULAR TRAFFIC SIGNAL HEAD
- B. USE EXISTING HANDHOLE
- C. USE EXISTING CONDUIT
- D. USE EXISTING CONTROLLER
- E. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE
- F. INSTALL OVERHEAD SIGN
- G. INSTALL ELECTRICAL HANDHOLE
- H. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- I. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- J. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)
- K. INSTALL NON-INVASIVE MICROLOOP PROBE (SET OF TWO)
- L. PULL AND REROUTE INTERCONNECT CABLE TO REMOVE SLACK FROM HANDHOLE
- M. INSTALL MICROLOOP PROBE (SET OF TWO)
- N. EXISTING EQUIPMENT TO BE REMOVED AS PART OF THE ROADWAY WIDENING OR ABANDONED
- O. EXISTING MICROLOOP PROBE TO BE ABANDONED
- P. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED)

**SIGNAL HEAD AND SIGN LAYOUT**



**GENERAL NOTES**

1. THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MSHA STANDARD PLATES FOR TRAFFIC CONTROL.
3. THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING AND VIDEO PROGRAMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
4. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
5. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
6. PROPOSED GEOMETRIC MODIFICATIONS WILL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR.
7. THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR AS NECESSARY.
8. THE CONTRACTOR SHALL REMOVE ALL ABANDONED ELECTRICAL CABLE.
9. THE SHA SIGNAL SHOP WILL REALIGN VIDEO CAMERA 'e' TO ACCOUNT FOR NEW WEST LEG GEOMETRY.

**LENHART TRAFFIC CONSULTING**  
 TRAFFIC ENGINEERING & TRANSPORTATION PLANNING  
 331 Redwood Grove Court Millersville, Maryland 21108  
 Tel: (410) 987-3888 Fax: (443) 782-2288

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

**NOTE:**  
 THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.  
 EAPD PERMIT NO. \_\_\_\_\_

GEOMETRIC LEGEND	
—	EXISTING
==	PROPOSED

APPROVALS	
TEAM LEADER	
ASST. DIV. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
①	SIGNAL MODIFICATION DUE TO WIDENING OF WEST LEG BWP9908E TMS L585 10/2012
②	PROVIDE EXCLUSIVE LEFT-TURN PHASING ALONG SB US 301 AT S. OSBORNE AND NB & SB AT MD 382 (CROOM ROAD) SHA NO. AT7185185 3/2005
③	REPLACE NE POLE AND MAST ARM AT S. OSBORNE RD. ADD VIDEO DETECTION AND NB EXCLUSIVE LEFT SHA NO. PC-2445176 2/2003

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 US 301 (CRAIN HIGHWAY) AT  
 SOUTH OSBORNE ROAD/MD 382 (CROOM ROAD)

SIGNALIZATION PLAN			
SCALE 1" = 30'	DATE OCTOBER 2001	CONTRACT NO. 2385612607427	
DESIGNED BY S.B. BARANOWSKI	COUNTY PRINCE GEORGE'S		
DRAWN BY R.R. ZACHERL	LOGMILE 16030110.34		
CHECKED BY E.M.M.	TMS NO. L585		
F.A.P. NO. N/A	TOD NO.		
TS NO. TS-2386J	DRAWING SG-01	OF 02	SHEET NO. OF 1