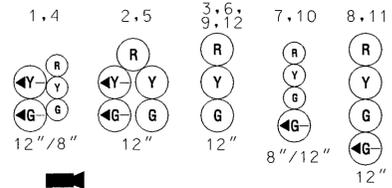


**PROPOSED SIGNALS**

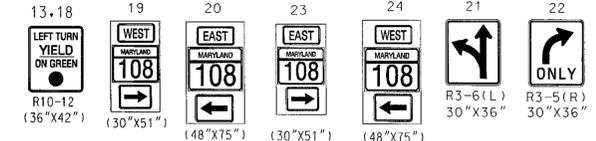


PROPOSED VIDEO DETECTION CAMERA A-D

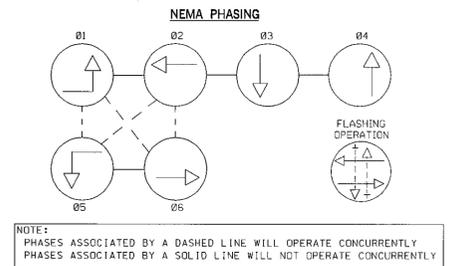
UTILITY LINE HEIGHTS

PHONE	23'
PHONE	23' 8"
PHONE	26' 3"
CABLE	29' 1"
SECONDARY	32'+

**PROPOSED SIGNS**



14-17  
Old Montgomery RD  
D3-2  
Dual Face  
(VAR. X 16")



**CONSTRUCTION DETAILS**

- A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 50 MAST ARMS WITH SIGNAL HEADS AND 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND 15' LIGHTING ARM, OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE - 3 IN. PVC SCHEDULE 80 CONDUIT BEND STA. 136+05 RT 43')
- B. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 60 FT. MAST ARM, SIGNAL HEADS AND OVERHEAD VIDEO DETECTION CAMERA, AND 250 WATT HPS LUMINAIRE WITH PHOTOCELL AND 15' LIGHTING ARM. (NOTE: ONE - 3 IN. PVC SCHEDULE 80 CONDUIT BEND STA. 134+74 LT 45')
- C. INSTALL CONCRETE FOUNDATION WITH A 21 FT. STEEL POLE WITH SINGLE 50 FT. MAST ARM, SIGNAL HEADS AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE - 3 IN. PVC SCHEDULE 80 CONDUIT BEND STA. 135+78 LT 35')
- D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH ELECTRICAL SERVICE UTILITY EQUIPMENT FOR UNDERGROUND SERVICE. (NOTE: TWO - 4 IN. PVC, AND TWO - 2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA. 135+35 RT 64'
- E. USE EXISTING CONDUIT.
- F. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT- TRENCHED.
- G. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT- BORED.
- H. INSTALL HANDHOLE.
- J. INSTALL 24 IN. WHITE, REFLECTIVE, THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
- K. REMOVE EXISTING STRAIN POLE AND FOUNDATION WITH POLE MOUNTED CABINET AND BACKFILL 12 IN BELOW GRADE.
- L. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- M. INSTALL ONE 3 IN. PVC SCHEDULE 80 CONDUIT FOR POWER FEED AND ONE 2 IN. SCHEDULE 80 CONDUIT FOR TELEPHONE DROP TO BOTTOM OF UTILITY POLE.
- N. REMOVE EXISTING STRAIN POLE, SPAN WIRE, SIGNAL HEADS, SIGNS AND/OR FOUNDATION AND BACKFILL 12 IN. BELOW GRADE.
- O. THE CONTRACTOR SHALL PULL BACK MICROLOOP PROBE LEAD-IN CABLES FROM POLE-MOUNTED CABINET AND REROUTE THROUGH PROPOSED 4" CONDUIT INTO PROPOSED CABINET AND RECONNECT TO PROPOSED RACK MOUNTED AMPLIFIER.
- P. INSTALL MICROLOOP PROBE WITH 1000 FT. LEAD-IN.
- Q. USE EXISTING HANDHOLE.
- R. INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (FOR DETECTOR WIRE SLEEVE).
- S. ABANDON EXISTING LOOP DETECTORS.
- T. USE EXISTING HANDHOLE AND REROUTE EXISTING INTERCONNECT. (SEE GENERAL NOTE 4.)
- U. INSTALL 3" SCH 80 PVC CONDUIT-BORED
- V. INSTALL HANDHOLE. LOCATE EXISTING CONDUIT AND INSTALL INTO NEW HANDHOLE.
- W. REMOVE EXISTING HANDHOLE

**GENERAL NOTES**

- 1. Pavement markings detailed are proposed and shall be installed by the Contractor in accordance with MD-SHA standards.
- 2. Video Camera Location / placement shall be coordinated with the SHA Engineer.
- 3. Contractor shall verify all proposed pole and cabinet locations, prior to installation.
- 4. The Contractor shall disconnect and pull back existing interconnect cable from existing controller to handhole in southwest corner and reroute to proposed base mounted controller through proposed underground conduit system.

**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
C-T	CABLE TV

**SABRA, WANG & ASSOCIATES, INC.**  
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BALTIMORE, MD 21227  
WWW.SABRA-WANG.COM

REVISIONS		APPROVALS	
07/15/02	REBUILD SIGNAL DUE TO GEOMETRICS CHANGES CO. # 1141	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
		ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
		CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
		DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

ORIGINAL ON FILE

**MARYLAND DOT - STATE HIGHWAY ADMINISTRATION**  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
TRAFFIC SIGNAL PLAN

**MD 108 AT OLD MONTGOMERY ROAD**

DRAWN BY: BRUCE THOMPSON	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY:	S.H.A. NO.	1611 A	
SCALE: 1" = 20'	COUNTY: HOWARD	T.J.M.S. NO.	
DATE: OCTOBER, 1989	LOG MILE: 130+08.13-40		17 OF 31