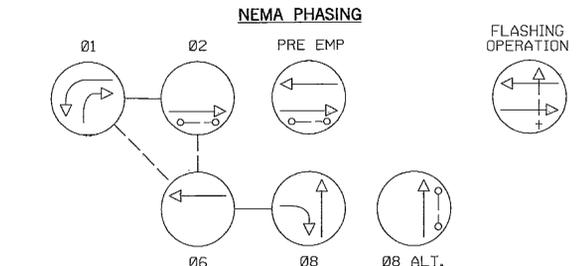
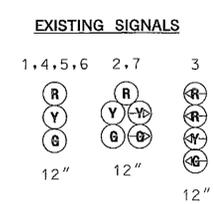
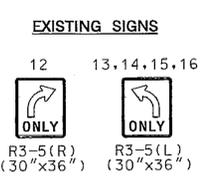
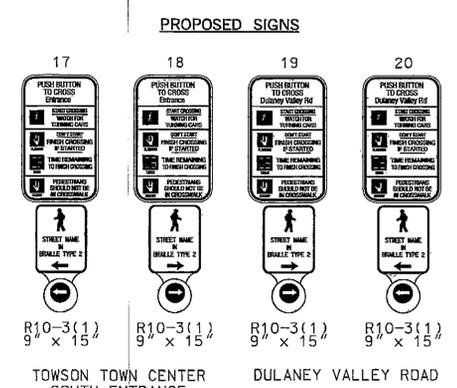
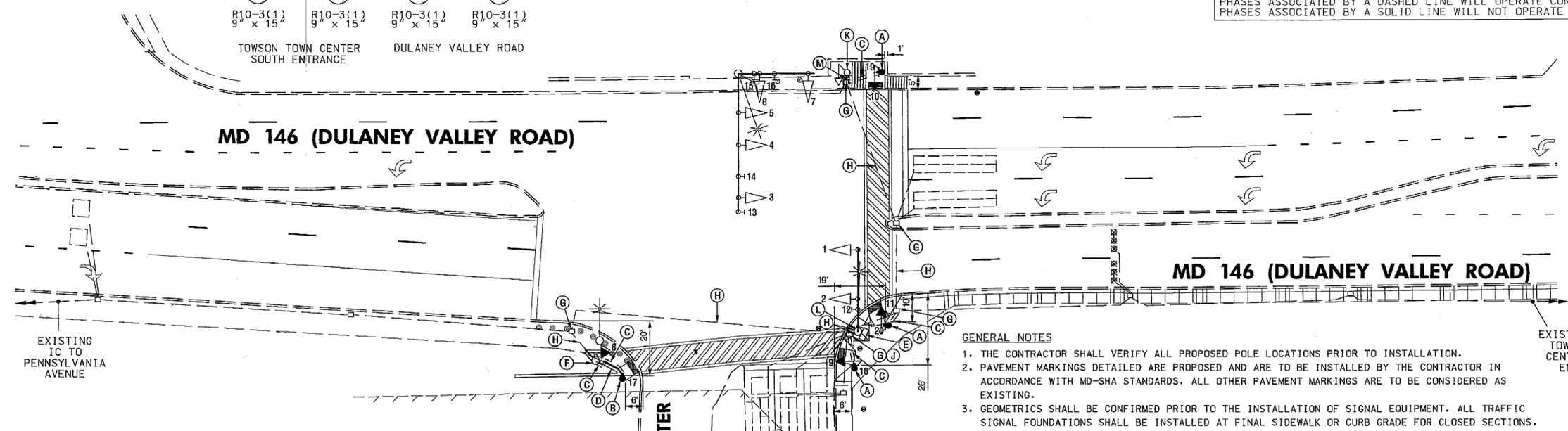


MD 146 is considered to run in a North/South direction.



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



**CONSTRUCTION DETAILS**

- INSTALL 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE PEDESTRIAN PUSHBUTTON AND PEDESTRIAN INSTRUCTIONAL SIGN. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
- INSTALL PUSHBUTTON PEDESTRIAN POLE PER MD STANDARD NO. 801.01-01. INSTALL AUDIBLE PEDESTRIAN PUSHBUTTON AND PEDESTRIAN INSTRUCTIONAL SIGN. (SEE SHEET 2 OF 2 FOR DETAILS.)
- INSTALL 2 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED (DURING CONSTRUCTION).
- INSTALL 2 IN. POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - PUSHED UNDER EXISTING RETAINING WALL.
- USE EXISTING CABINET/CONTROLLER. INSTALL APS CENTRAL CONTROL UNIT.
- USE EXISTING STEEL PEDESTAL POLE REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON AND PUSHBUTTON SIGN. INSTALL COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND AN ADDITIONAL 2 IN. PVC CONDUIT BEND IN EXISTING POLE BASE.
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- ADJUST EXISTING HANDHOLE TO PROPOSED GRADE.
- REMOVE EXISTING STEEL PEDESTAL POLE AND ALL ATTACHED EQUIPMENT.
- REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND PUSHBUTTON SIGNS.
- CAP AND ABANDON EXISTING CONDUIT.

**GENERAL NOTES**

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT 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. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. x 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 & FIG 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING APS EQUIPMENT FOR PROGRAMMING TO MD-SHA SIGNAL SHOP. CONTACT MR. ED RODENHIZER 410-787-7650, 12 HOURS PRIOR TO CONSTRUCTION.
- ADA RAMP DETAILS, DIMENSIONS AND SPECS SHOWN ON ROADWAY PLANS.

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 1 YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

The Traffic Group, Inc.  
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9900 Franklin Square Drive  
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1-800-583-8411  
Fax 410-931-6601

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
F	FIBER-OPTIC

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

MD 146 (DULANEY VALLEY ROAD) @ DULANEY PLAZA AND TOWSON TOWN CENTER SOUTH ENTRANCE

APPROVALS	REVISIONS
TEAM LEADER	D REMOVE EXISTING PED INSTALL APS INDICATIONS SHA NO. 014408
ASST. DIR. CHIEF	C ASBUILT SHA NO. AW-103-501-485
DIVISION CHIEF	B ADD PRE-EMPTION DETECTION 496
OFFICE DIRECTOR	

TRAFFIC SIGNAL PLAN			
SCALE 1" = 20'	DATE APRIL 9, 1996	CONTRACT NO. B-165-501-476	
DESIGNED BY D. PETERS	COUNTY BALTIMORE		
DRAWN BY AP	LOGMILE 03014600.19		
CHECKED BY	TIMS NO. 1533		
FAP NO. NA	TOD NO.		
TS NO. 3570-D	DRAWING - OF	SHEET NO. 1 OF 2	

PLOTTED: Tuesday, January 13, 2009 AT 02:47 PM  
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