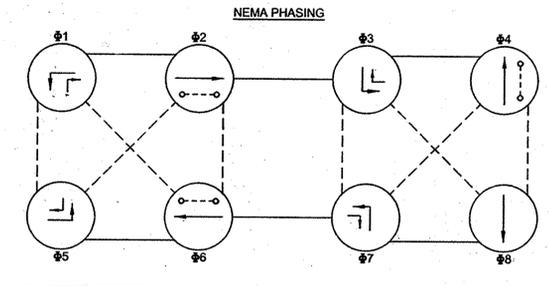
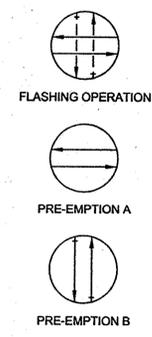
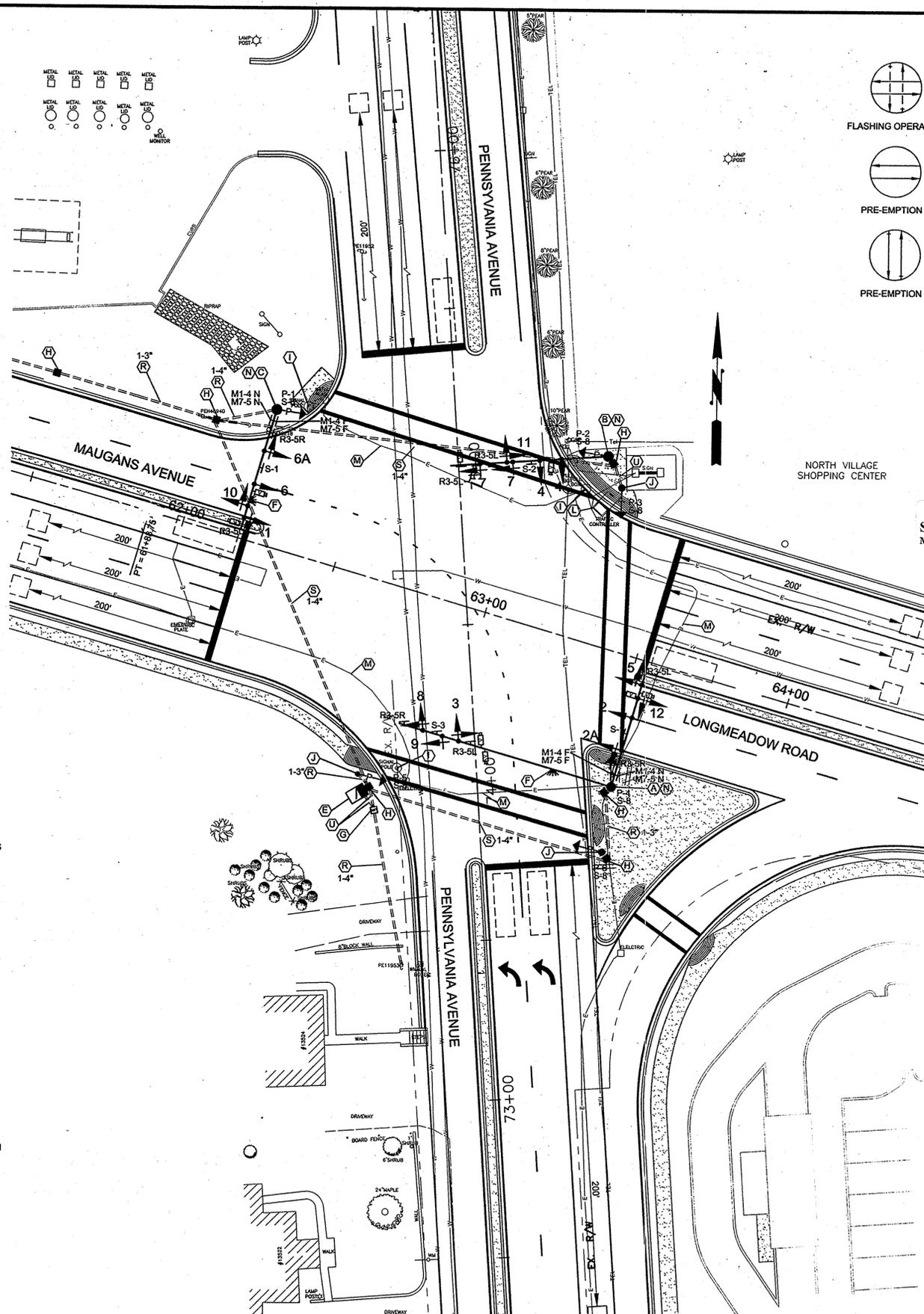


GENERAL NOTES:

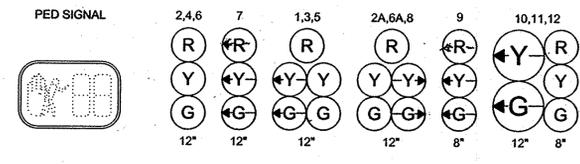
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCE AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT THE UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BE BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED. THE CONTRACTOR SHALL NOT CUT THE MAST ARM AS INDICATED ON THE PLANS UNTIL THE MAST ARM POLE LOCATION IS FINALIZED.
- VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- HANDHOLE SHALL BE INSTALLED AT FINAL GRADE.
- THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL THE INSTALLATIONS OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
- VIDEO CAMERA LOCATION/ALIGNMENT SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL VIDEO DETECTION CAMERA CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON THE COMPLETION OF THE SIGNAL MODIFICATION.
- SEE SIGNAL PLAN DETAILS SHEETS, SP-13 TO SP-16, FOR SHA STANDARD DETAILS.
- SEE SHEET PM-01 TO PM-06 FOR PAVEMENT MARKINGS AND SIGNAGE.
- CAP ALL UNUSED CONDUIT.

CONSTRUCTION DETAILS

- INSTALL CONCRETE FOUNDATION WITH STEEL POLE WITH 50 FT AND 70 FT MAST ARMS (CUT TO 38 FT AND 70 FT) WITH SIGNAL HEADS, OVERHEAD VIDEO DETECTION CAMERA, PEDESTRIAN SIGNALS, PUSH BUTTONS AND SIGNS MOUNTED ON MAST ARMS AND POLE AS SHOWN. (INSTALL 1-4 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION.)
- INSTALL CONCRETE FOUNDATION WITH STEEL POLE WITH 50 FT MAST ARM WITH TRAFFIC SIGNAL HEADS, OVERHEAD VIDEO DETECTION CAMERA, PEDESTRIAN SIGNALS, PUSH BUTTONS AND SIGNS MOUNTED ON MAST ARMS AND POLE AS SHOWN. (INSTALL 1-4 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION.)
- INSTALL CONCRETE FOUNDATION WITH STEEL POLE WITH 50 FT MAST ARM (CUT TO 38 FT) WITH TRAFFIC SIGNAL HEADS, OVERHEAD VIDEO DETECTION CAMERA, PEDESTRIAN SIGNALS, PUSH BUTTONS AND SIGNS MOUNTED ON MAST ARMS AND POLE AS SHOWN. (INSTALL 1-4 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION.)
- INSTALL NEMA SIZE 6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND ELECTRICAL UTILITY SERVICE EQUIPMENT. (INSTALL 2-4 IN AND 2-2 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN FOUNDATION.)
- INSTALL OPTICOM EMERGENCY VEHICLE PRE-EMPTION DETECTOR EYE.
- INSTALL 200 AMP METER PEDESTAL FOR ELECTRIC SERVICE.
- INSTALL HANDHOLE.
- REMOVE EXISTING MAST ARM, POLE, TRAFFIC SIGNAL HEADS AND SIGN(S), AND FOUNDATIONS (12" BELOW GRADE).
- INSTALL 10 FT BREAKAWAY PEDESTAL POLE WITH PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND SIGN. (INSTALL 1-4 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
- INSTALL 10 FT BREAKAWAY PEDESTAL POLE WITH TRAFFIC SIGNAL HEADS AND SIGN. (INSTALL 1-4 IN SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
- REMOVE EXISTING BASE MOUNTED CABINET AND CONTROLLER. REMOVE FOUNDATION 12 IN BELOW GRADE. SHA SIGNAL SHOP SHALL BE NOTIFIED TO REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CABINET.
- CAP AND ABANDON EXISTING CONDUIT.
- INSTALL SIGNAL POLE MOUNTED PEDESTRIAN SIGNALS, PUSHBUTTONS AND SIGN.
- INSTALL SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED).
- INSTALL SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED).
- INSTALL SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED).
- INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT (TRENCHED) FOR PHONE SERVICE TO BASE CABINET.
- INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT (BORED) FOR PHONE SERVICE TO BASE CABINET.
- INSTALL 2" SCHEDULE 80 PVC ELECTRICAL CONDUIT (SLOTTED) FOR PHONE SERVICE TO BASE CABINET.



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



SHA No.: BW707M83
 Maughan's Avenue: I-81 to US 11

NOTE: ALL SIGNALS SHALL BE "LED" WITH BLACK FACE.

LEGEND

- METAL POLE/PEDESTAL WITH LUMINAIRE
- SINGLE MAST ARM AND POLE
- TWIN MAST ARM AND POLE
- PEDESTRIAN SIGNAL, PUSH BUTTON AND SIGN ON METAL POLE
- BASE MOUNTED NEMA SIZE 6" CABINET AND CONCRETE PAD
- HANDHOLE
- VIDEO DETECTION ZONE
- RAMP QUEUE DETECTION 6'x22' QUADRAPOLE
- METER PEDESTAL
- THREE HEAD SIGNAL
- THREE HEAD SIGNAL TURN
- FIVE HEAD SIGNAL
- PROPOSED SIGN ON MAST ARM
- OPTICOM EMERGENCY VEHICLE PRE-EMPTION DETECTOR EYE
- TRAFFIC VIDEO CAMERA
- PROPOSED CONDUIT
- 3/4" x 10' GROUND ROD

SPECIAL NOTES

- THE CONTRACTOR SHALL NOT BLOCK THE VIEW OF EXISTING SIGNAL INDICATIONS DURING THE INSTALLATION OF THE MAST ARM. IF NEW MAST ARM CANNOT BE INSTALLED DUE TO A CONFLICT WITH EXISTING SIGNAL INDICATIONS, A SIGNAL OUTAGE SHALL OCCUR DURING NON-PEAK HOURS AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL CONSTRUCT NEW TRAFFIC CONTROL SIGNAL AND BE OPERATIONAL PRIOR TO REMOVING EXISTING TRAFFIC SIGNAL EQUIPMENT. THE CONTRACTOR SHALL RELOCATE TRAFFIC SIGNAL HEADS IF REQUIRED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
**MAUGANS AVENUE / LONGMEADOW ROAD
 AND PENNSYLVANIA AVENUE**
 TRAFFIC SIGNAL PLANS

DESIGNED BY:	DATE:
DRAWN BY:	REVISION DESCRIPTION:
CHECKED BY:	NO.:
DATE:	
DIVISION OF PUBLIC WORKS WASHINGTON COUNTY, MARYLAND ENGINEERING DEPARTMENT	
Washington County Administration Building 80 W. Baltimore St., Hagerstown, MD 21740 Phone: 240-315-2400 Fax: 240-315-2401	
MAUGANS AVE. & PENNSYLVANIA AVE. RECONSTRUCTION SIGNAL PLANS PENNSYLVANIA AVENUE	
SCALE	AS SHOWN
SHEET NO.	SP-12
PROJECT NO.	10-140
DWG. No.	69 OF 146