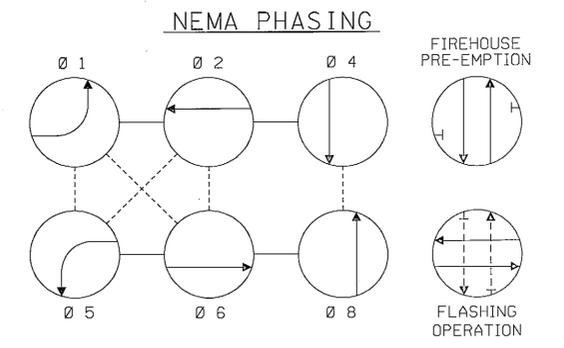
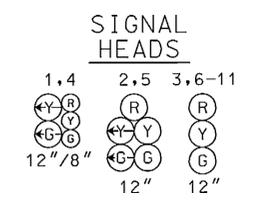
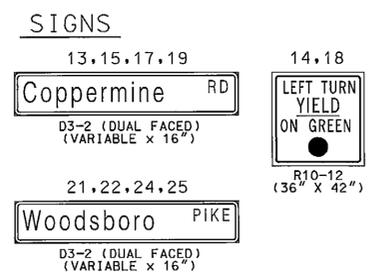
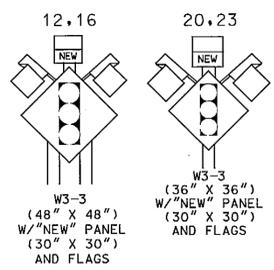
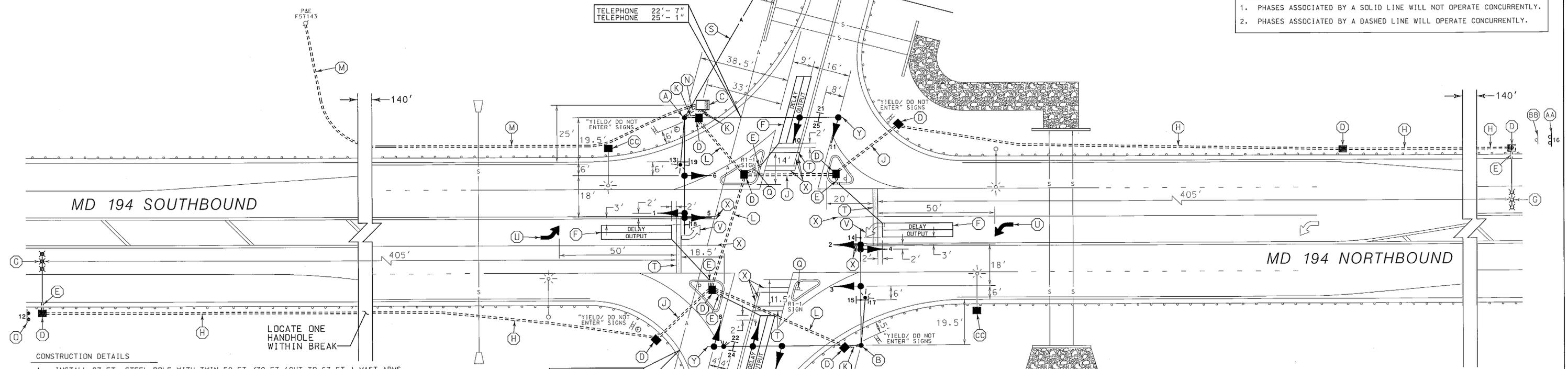


MD 194 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION



PHASING NOTES:

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



- CONSTRUCTION DETAILS**
- INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. (CUT TO 67 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, SIGNS, 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE LUMINAIRE, CLEVIS AND 1 IN. GALVANIZED RISER (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
 - INSTALL 27 FT. STEEL POLE WITH TWIN 50 FT./70 FT. (CUT TO 65 FT.) MAST ARMS, TRAFFIC SIGNAL HEADS, OPTICOM DETECTOR EYE, SIGNS AND 20 FT. STREET LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE CONDUIT BENDS IN POLE BASE).
 - INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (INSTALL 1-2 IN., 1-3 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE).
 - INSTALL HANDHOLE.
 - INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
 - INSTALL 6 FT. X 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
 - INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
 - INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
 - INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
 - INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
 - INSTALL 4 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
 - INSTALL 3 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE.
 - INSTALL 2 IN. SCHEDULE 80, RIGID POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED TELEPHONE SERVICE.
 - INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. X 48 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS APPROXIMATELY 1100 FT. IN ADVANCE OF THE INTERSECTION ON NORTHBOUND MD 194.
 - INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS ON ONE 4 IN. X 4 IN. TREATED WOOD POST APPROXIMATELY 310 FT. IN ADVANCE OF THE INTERSECTION ON WESTBOUND COPPERMINE ROAD.
 - REMOVE EXISTING R1-1 SIGN AND SUPPORT.
 - REMOVE EXISTING W3-1 SIGN AND SUPPORT.
 - PROPOSED OVERHEAD TELEPHONE SERVICE.
 - INSTALL 24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING TAPE (STOP LINE).
 - INSTALL THERMOPLASTIC PAVEMENT MARKING ARROW.
 - REMOVE EXISTING PAVEMENT MARKING ARROW.
 - REMOVE EXISTING PAVEMENT MARKING LETTERS.
 - REMOVE EXISTING PAVEMENT MARKINGS.
 - CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.
 - INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. X 36 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS ON ONE 4 IN. X 4 IN. TREATED WOOD POST APPROXIMATELY 655 FT. IN ADVANCE OF THE INTERSECTION ON WESTBOUND COPPERMINE ROAD.
 - INSTALL W3-3 "SIGNAL AHEAD" SIGN (48 IN. X 48 IN.) WITH "NEW" PANEL (30 IN. X 30 IN.) AND FLAGS ON TWO 4 IN. X 6 IN. TREATED WOOD POSTS APPROXIMATELY 500 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND MD 194.
 - RELOCATE EXISTING "ADAPT-A-HIGHWAY" SIGN AND SUPPORT 100 FT. SOUTH, CURRENTLY LOCATED APPROXIMATELY 440 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND MD 194.
 - REMOVE AND DISPOSE OF EXISTING LIGHT POLE. REMOVE FOUNDATION 12 IN. BELOW GRADE AND INSTALL HANDHOLE AND SPLICE DUCT CABLE.

- GENERAL NOTES**
- 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 THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
 - INSTALL CONDUIT AND LOOP DETECTORS PRIOR TO PAVEMENT MARKINGS.
 - POLE BASES SHALL BE SET AT SAME ELEVATION AS EDGE OF ROADWAY.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	— A —
ELECTRICAL	— E —
TELEPHONE	— T —
GAS	— G —
SEWER	— S —
WATER	— W —
CABLE TV	— TV —

WR&A
Whitman, Reardon and Associates
Engineers and Planners
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

LOG MILE 10019406.76

REVISIONS	APPROVALS	REVISIONS
	<i>[Signature]</i> ASSISTANT DIVISION CHIEF	
	<i>[Signature]</i> ASST. DISTRICT ENGINEER, TRAFFIC	
	<i>[Signature]</i> TRAFFIC ENGINEERING DESIGN DIVISION	
	<i>[Signature]</i> DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 194 AND COPPERMINE ROAD

DATE: 1-30-98	DRAWN BY: S.BLOSS	F.A.P. NO.	PLAN
SCALE: 1"=20'	DESIGNED BY: N.LEARY	S.H.A. NO. AW277A57/857	SHEET NO.
APPROVED BY: <i>[Signature]</i>	CHECKED BY: T.HANNAN	COUNTY: FREDERICK	TS-3771 1 OF 2