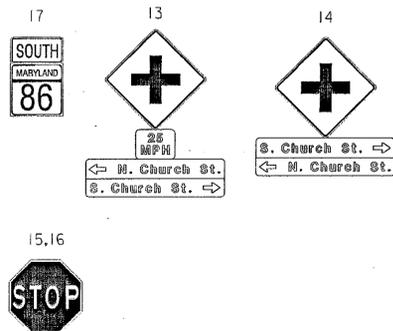


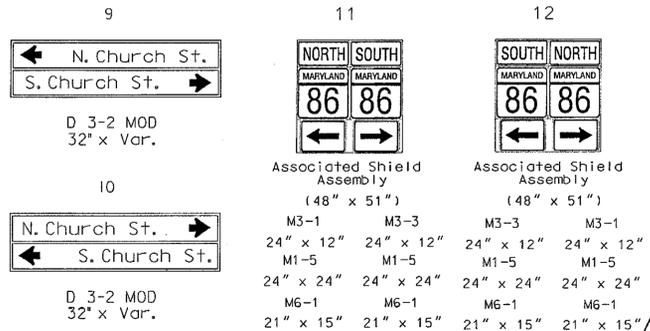
EXISTING SIGNS



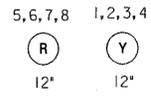
MD 86 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION

PROJECT DESCRIPTION: THIS PROJECT INVOLVED THE INSTALLATION OF AN INTERSECTION CONTROL BEACON FOR MD 86 AT CHURCH STREET

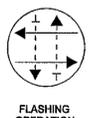
PROPOSED SIGNS



PROPOSED SIGNALS



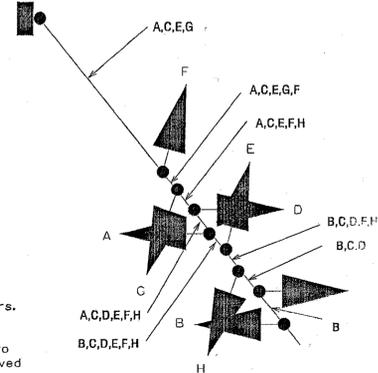
NEMA PHASING



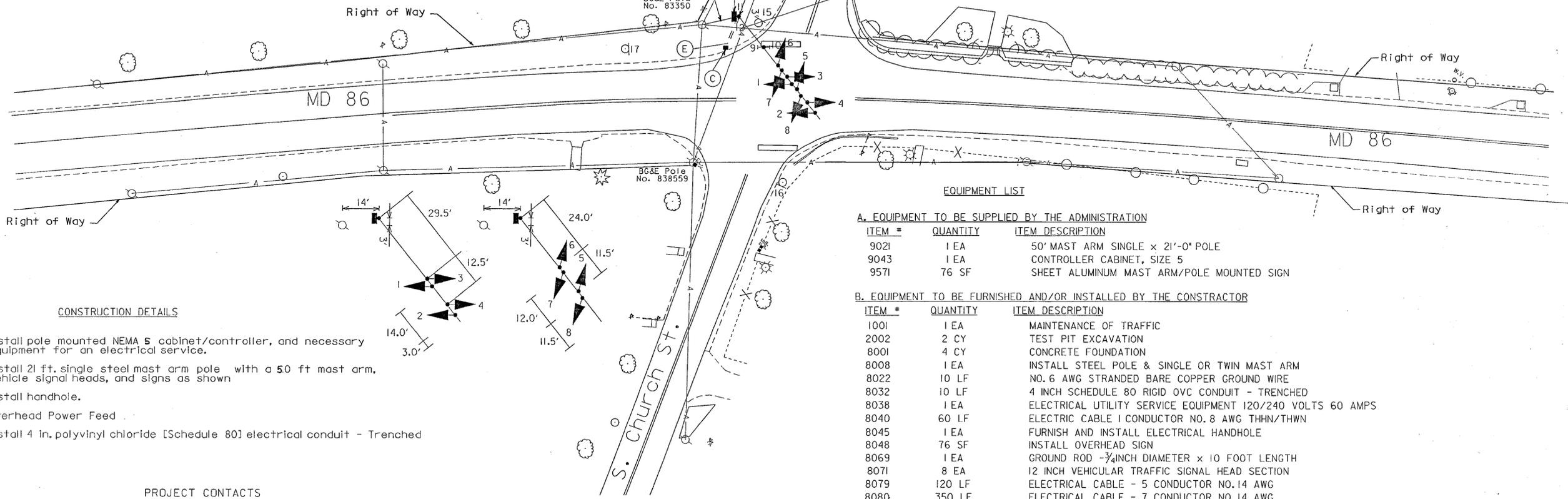
NOTES

- Existing luminaire (100 Watt, 4' arm) located on BG&E Pole No. 83350 to be upgraded to 250 Watt HPS, 15' arm length luminaire. This work will be done by others.
- Utilities shown are schematic only and may not represent all utilities present and their locations. The contractor shall verify exact locations of all utilities prior to beginning any work and shall notify the project engineer immediately if he perceived that a conflict may exist.
- Signs 13 and 14 are located approximately 300' from the intersection.

WIRING DETAILS - NOT TO SCALE



A,C,E,G - 7-CONDUCTOR NO. 14 AWG
B,D,F,H - 5-CONDUCTOR NO. 14 AWG



CONSTRUCTION DETAILS

- Install pole mounted NEMA 5 cabinet/controller, and necessary equipment for an electrical service.
- Install 21 ft. single steel mast arm pole with a 50 ft mast arm, vehicle signal heads, and signs as shown.
- Install handhole.
- Overhead Power Feed
- Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - Trenched

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION		
ITEM #	QUANTITY	ITEM DESCRIPTION
9021	1 EA	50' MAST ARM SINGLE x 21'-0" POLE
9043	1 EA	CONTROLLER CABINET, SIZE 5
9571	76 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONSTRUCTOR		
ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	2 CY	TEST PIT EXCAVATION
8001	4 CY	CONCRETE FOUNDATION
8008	1 EA	INSTALL STEEL POLE & SINGLE OR TWIN MAST ARM
8022	10 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8032	10 LF	4 INCH SCHEDULE 80 RIGID OVC CONDUIT - TRENCHED
8038	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
8040	60 LF	ELECTRIC CABLE 1 CONDUCTOR NO. 8 AWG THHN/THWN
8045	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8048	76 SF	INSTALL OVERHEAD SIGN
8069	1 EA	GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
8071	8 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8079	120 LF	ELECTRICAL CABLE - 5 CONDUCTOR NO. 14 AWG
8080	350 LF	ELECTRICAL CABLE - 7 CONDUCTOR NO. 14 AWG
8089	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

PROJECT CONTACTS

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CHIEF, TRAFFIC OPERATIONS DIVISION
(410) 787-7630

UTILITY LEGEND

— G —	GAS MAIN
— W —	WATER MAIN
— S —	SEWER MAIN
— E —	ELECTRIC CABLES
— D —	STORM DRAIN
— A —	AERIAL CABLES
— T —	TELEPHONE CABLES

REVISIONS	APPROVALS	MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 86 at Church Street	
	Amy K. Beall 6-2-03 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION [Signature] ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION [Signature] CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	DRAWN BY: D.J.R. CHECKED BY: A.K.B. SCALE: 1:20 DATE: 05/01/03	F.A.P. NO. AC-STPG-000519041E S.H.A. NO. CL 122 A53/05/03 COUNTY: CARROLL LOG MILE: 061008603.46 TS NO. TS 4234 T.I.M.S. NO. F346 SHEET NO. 1