

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of US 50 and Jerry Mac Road/Man O' War Lane in Worcester County, Maryland. US 50 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be an exclusive/permissive left turn phase for the east and westbound movements of US 50. The US 50 through movements will operate concurrently. The Jerry Mac Road/Man O' War Lane through movements will operate concurrently.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and (1) four-channel rack mounted time delay output loop detector amplifiers, and video detection equipment housed in a base mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
3	EA	818	27 ft. steel mast arm pole with a 70 ft. mast arm.
1	EA	818	27 ft. steel mast arm pole with 38 ft. mast arm
2	EA	818	14 ft. steel pedestal pole with break away transformer base
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, and one 4 - four channel loop detector amplifier Video Camera detection equipment (Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-76501.
2	EA	814	8 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
6	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	12 in., one-way, five section (R,Y,YA,G,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
2	EA	814	8 in./12 in., one-way, five section (8 in. R,Y,G/12 in. YA, GA) adjustable black faced traffic signal head with post top mounting hardware and tunnel visors.
2	EA	813	36 in. x 42 in. R 10-12 sign with mast arm mounting hardware.
3	EA	813	30 in. x 36 in. R 3 -5(L) sign with mast arm mounting hardware.
2	EA	813	30 in. x 36 in. R 3-3(L) sign with mast arm mounting hardware.
2	EA	813	16 in. x Var. D-3(1) (Dual Faced) sign with mast arm mounting hardware.
4	EA	813	48 in. x 48 in. W 3-3 "NEW" sign for ground mounting.
1	EA	813	24 in. x 51 in. shield assem. sign with pole mounting hardware.
1	EA	813	36 in. x 75 in. shield assem. sign with pole mounting hardware.
4	EA	---	Non-Invasive probe (set of 3) with 1000 ft. lead-in cable.
4	EA	806	20 ft. luminaire arm.
2	EA	806	250 W H.P.S. lamp and luminarie.
4	EA	---	Video Camera Detection equipment (to include detector cables). (1-200 LF; 1-300 LF; 1-400 LF; 1-575 LF lengths)

B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
6	CY	205	Test pit excavation.
15	EA	811	Handhole.
420	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
120	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
1975	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
5	LF	810	3-wire (No. 4 A.W.G.) electrical cable.
650	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
25	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
910	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
120	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
450	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
100	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
22.0	CY	801	Concrete foundation for traffic signal equipment.
7	EA	804	Ground rod 3/4 in. diameter x 10 ft. length.
1	EA	807	Control and distribution equipment (120/240 V, one phase, three wire system) for a type B-10 underground electrical service.
155	LF	556	24 in. wide HAPPTPM - white for stop line.
200	LF	812	4 in. x 6 in. wood sign support.
Lump Sum	LS	---	As-built for S.H.A. (on CADD).

CONTACT LIST

The contact persons for District #1 are as follows:

Mr. Gene Coffield
Assistant District Engineer - Traffic
410-543-6715

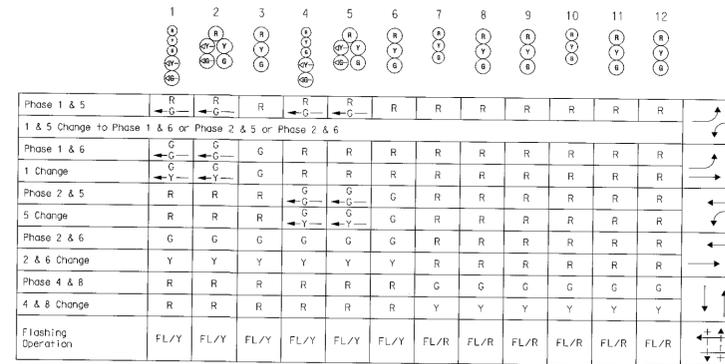
Mr. Bruce Poole
Assistant District Engineer - Utility
410-543-6715

Mr. James Wright
Assistant District Engineer - Maintenance
410-543-6715

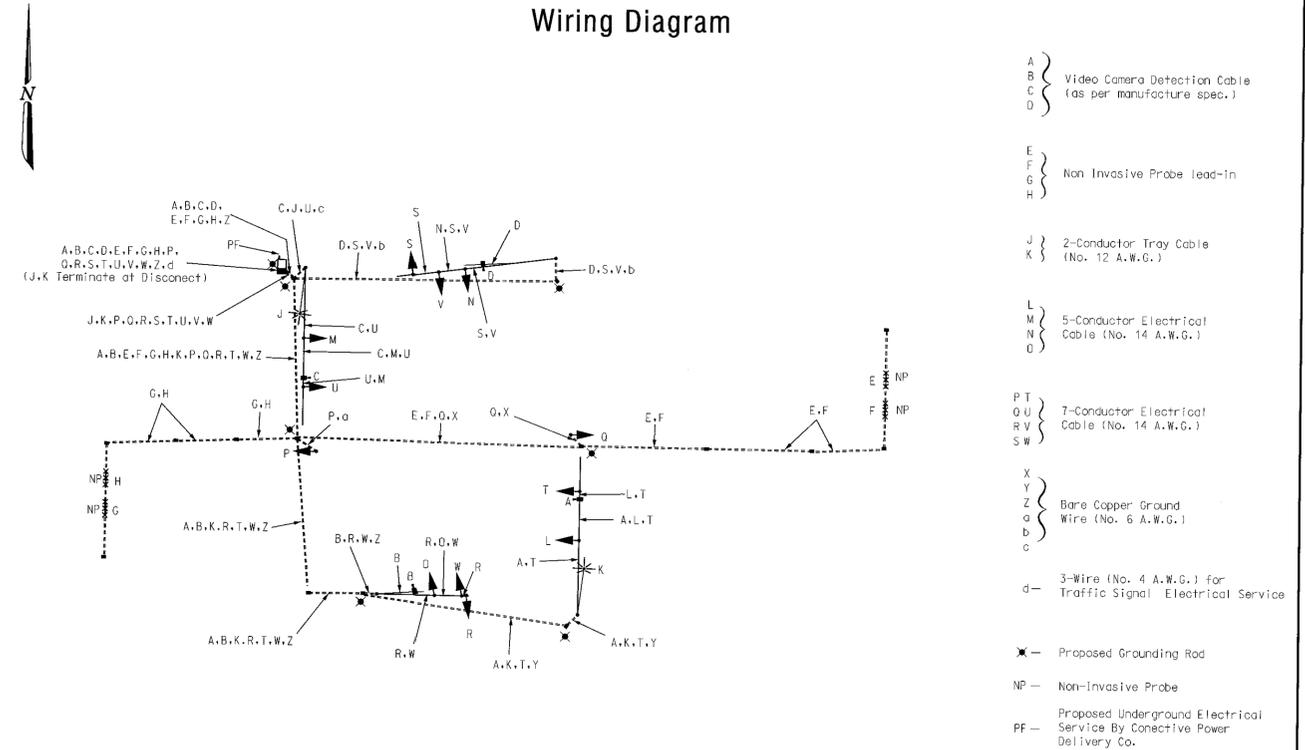
Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

The Power Company Representative is:
Connectiv Power Delivery
Mr. Vance Elbert
2530 N. Salisbury Blvd.
Salisbury, Maryland 21802
410-880-6380

Phase Chart



Wiring Diagram



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
US 50 at Jerry Mac Road/Man O' War Lane

DRAWN BY: Frank Hoeckel	F.A.P. NO. N/A	TS NO. 4202-63	SHEET NO. 2 OF 2
CHECKED BY: N/A	S.H.A. NO. BW996M82	T.I.M.S. NO. F-107	
SCALE: N/A	COUNTY: Worcester	LOG MILE: 23005011.67	
DATE: August 21, 2002			

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