

INTERSECTION OPERATIONS

- A. MD 26 at Trading Lane/Monocacy Boulevard
- 1.) The intersection shall continue operating in a NEMA six-phase, full-actuated mode, with the MD 26 approaches running concurrently. A leading exclusive double left turn phase shall be provided for the eastbound approach of MD 26 with a lagging exclusive double left turn phase for the westbound approach of MD 26. The Trading Lane/Monocacy Boulevard approaches shall operate as a split phase.
 - 2.) One additional two-channel, time delay output loop detector amplifiers shall be installed into the existing base-mounted cabinet at the intersection.
 - 3.) The master controller for the signal system along MD26 from MD 355 to MD 194 shall be located at this intersection. Interconnect cable (I/C) shall run overhead along the MD 26 existing utility pole line from MD 355 to Trading Lane / Monocacy Blvd. and to Waterside Dr. / Sebastian Blvd. to the west side of the new Monocacy River bridge where the I/C shall run underground through the south side bridge parapet wall and wall and then continue underground to MD 194.
 - 4.) Upon completion of this project, the Contractor shall notify Mr. Bob Snyder at (410) 787-7630 to arrange for the phone line installation into the master controller at the MD 26 and Trading Lane/Monocacy Boulevard intersection. The Contractor is to provide Mr. Snyder with the nearest street address, zip code and phone number.

CONSTRUCTION DETAILS

- C. Install handhole.
- D. Install 1" liquid tight flexible non-metallic conduit sleeve for loop detector lead-in.
- E. Install 2" polyvinyl chloride schedule 40 electrical conduit - trenched/buried.
- G. Install 6' x 6' loop detector (3 turns).
- J. Install 20' lighting arm with 250 Watt High Pressure Sodium lamp and luminaire on existing strain pole.
- V. Use existing conduit.
- X. Use existing handhole.
- FF. Install 2-2" polyvinyl chloride schedule 40 conduit bends in existing controller cabinet base.
- GG. Install master controller (Note: 3-2" polyvinyl chloride schedule 40 conduit bends).
- OO. Install 3" polyvinyl chloride schedule 80 electrical conduit - Trenched/buried.
- XX. Install interconnect cable.

EQUIPMENT LIST

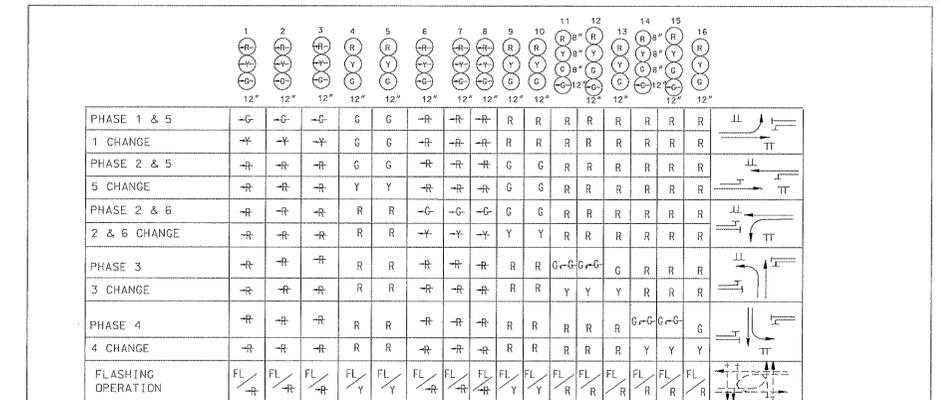
A. Equipment to be furnished by S.H.A.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	EA	817	Two channel loop detector amplifier (delay output)
1	EA	816	Traffic responsive master controller and cabinet- base mount
54	SF	813	Sheet Aluminum signs (Spanmount) consisting of:
4	EA		D3-2 (16"xVar.") Liberty RD (8"/6" & 4").

*Installation incidental to controller

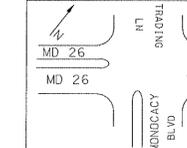
B. Equipment to be furnished and/or installed by the Contractor.

QUANTITY	UNIT	SPECIFICATION SECTION	DESCRIPTION
1	LS	XXX	As-built signal plan
475	LF	810	Electrical cable- 2 conductor copper type tray cable No. 12 AWG
2	CY	801	Concrete for signal foundation
35	LF	805	2" schedule 40 rigid PVC conduit- trenched
715	LF	805	3" schedule 40 rigid PVC conduit- trenched
15	LF	805	1" liquid tight flexible non-metallic conduit for detector sleeve
6	EA	811	Electrical Handhole
14700	LF	810	12-pair communication cable, self-supporting (overhead)
1000	LF	810	12-pair communication cable, jelly filled (underground)
2	EA	806	250 Watt High Pressure Sodium lamp and luminaire
1	EA	804	Ground rod-3/4in. diameter x 10 ft length
1450	LF	810	Electrical cable- 2 conductor (aluminum shielded) shielded)
220	LF	810	Loop wire encased in flexible tubing (No. 14 AWG)
115	LF	815	Sawcut for signal (loop detector)
2	EA	808	20 foot lighting arm on signal structure
1	EA	816	Install traffic responsive master controller and cabinet- base mount
25	LF	810	Electrical cable 1 conductor #4 AWG (3 wire)

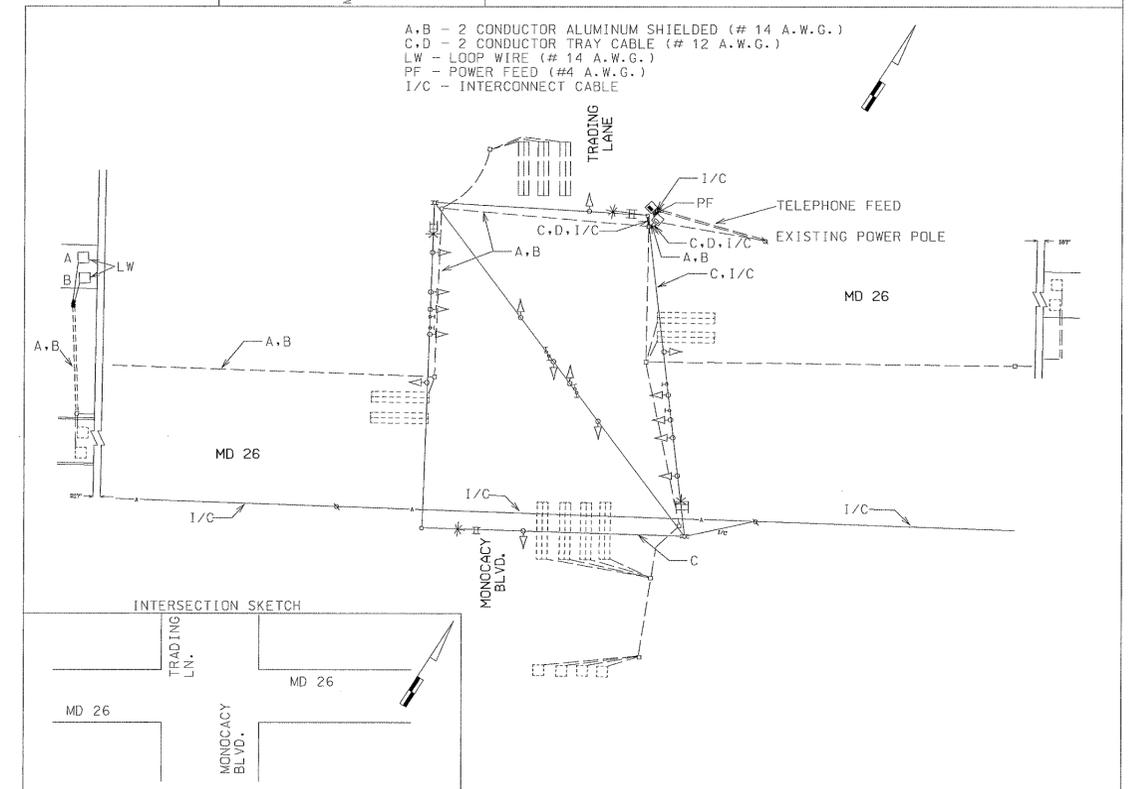


NOTES:
PHASE 1 WILL ALWAYS BE ON WITH PHASE 5, NEVER ALONE
PHASE 5 WILL ALWAYS BE ON WITH PHASE 1 OR 2, NEVER ALONE
PHASE 6 WILL ALWAYS BE ON WITH PHASE 2, NEVER ALONE
PHASE 3 SHALL ALWAYS PRECEED PHASE 4

INTERSECTION SKETCH



R-RED
Y-YELLOW
G-GREEN
R = RED ARROW
Y = YELLOW ARROW
G = GREEN ARROW
FL/Y = FLASHING YELLOW
FL/R = FLASHING RED
FL-A-R = FLASHING RED ARROW



GENERAL INFORMATION SG-2

<p>DGI CONSULTING ENGINEERS COLUMBIA, MARYLAND</p>	<p>REVISIONS</p>	<p>APPROVALS</p> <p>CHIEF, SIGNAL DESIGN SECTION</p> <p>ASST. DISTRICT ENGINEER, TRAFFIC</p> <p>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION</p> <p>DIRECTOR, OFFICE OF TRAFFIC & SAFETY</p>	<p>MDOT - STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION</p>
	<p>ORIGINAL DRAWN BY: <u>RJM</u></p> <p>DES. BY: <u>RJM</u></p> <p>CHK. BY: <u>[Signature]</u></p> <p>DATE: <u>4/95</u> F.A.P. NO. _____</p> <p>SCALE: <u>NTS</u> S.H.A. NO. _____</p>	<p>MD 26 @ TRADING LANE/ MONOCACY BLVD.</p> <p>LM: 10002601.08 COUNTY: <u>FREDERICK</u></p> <p>TS/FILE NO. <u>3367B-GI</u> SHEET NO. <u>135 OF 156</u></p>	