PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of two (2) Hazard Identification Beacons on existing ground mounted structures along I-695 in the area of I-695 overpass with Chesaco Avenue in Baltimore County.

II. INTERSECTION OPERATION

1. Two full-traffic-actuated, eight-phase controller with intersection Monitor with battery back-up for phone drop and associated harnesses housed in a NEMA size "5 " -mounted cabinet with extension base shall be installed at two (2) locations on I-695 as shown on the plans.

III. SPECIAL NOTES

1. A field wiring to the exisiting controller cabinets shall be terminated to the appropriate controller cabinet connectors by the Contractor and labeled. All other controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Dave Swartz at (410) 787-7650 seventy-two hours in advance of intended work.

2. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

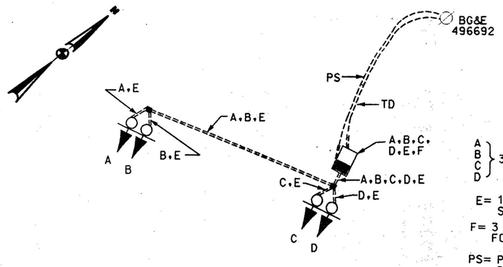
ITEM NO.	DESCRIPTION	QUANTITY
9001	Eight-phase, full-traffic actuated, solid state digital controller with Intersection Monitor with battery back-up for phone drop and associated harnesses housed in a NEMA size " 5 "- base mounted cabinet, with extension base.	2 EA
NEG.	12", one-way, one-section (Y) traffic signalhead with and tunnel visors (sign mounted).	3 EA

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 Each
2001	Test pit excavation.	4 C.Y.
8020	Install controller and cabinet base mount.	2 Each
8024	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	250 L.F.
8026	Furnish and install 2" schedule 80 rigid polyvinyl chloride - bored	190 L.F.
8027	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched.	80 L.F.
8029	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	145 L.F.
8030	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - trenched.	25 L.F.
8033	Furnish and install electrical handhole.	5 EA
8034	Furnish and install ground rod - 3/4" x 10'.	4 EA
8043	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	530 L.F.
8049	Furnish and install No. 6 AWG stranded bare copper ground wire.	530 L.F.
8050	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	60 L.F.
8065	Install conduit bend in existing base.	8 EA
8070	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	2 EA
NEG.	Install signal head onto existing sign structure includes all mounting hardware steel tubing and flexible tubing	8 EA

WIRING DIAGRAM

LOCATION #1 SOUTH OF CHESACO AVE



WIRING KEY

A, B, C, D } 3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

E= 1 CONDUCTOR ELECTRICAL CABLE (NO. 6 AWG) STRANDED BARE COPPER GROUND WIRE

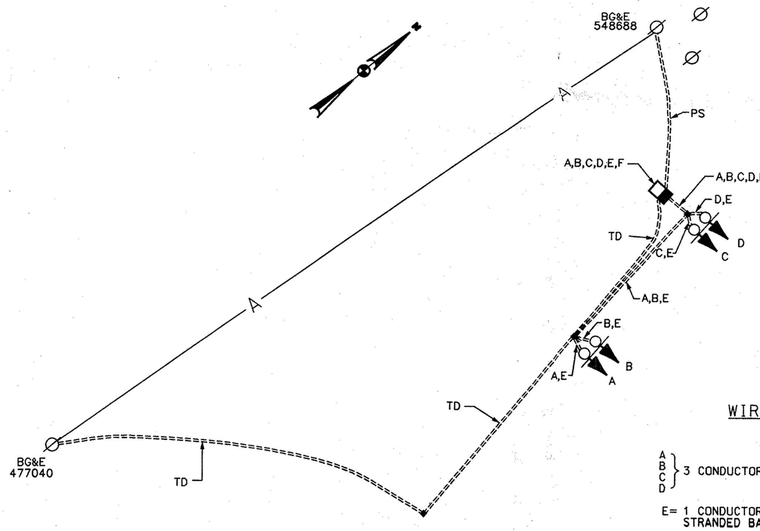
F= 3 - 1 CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG) FOR POWER SERVICE

PS= PROPOSED UNDERGROUND POWER SERVICE BY BG&E

TD= PROPOSED TELEPHONE DROP BY BELL ATALNTIC

WIRING DIAGRAM

LOCATION #2 NORTH OF CHESACO AVE



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APPROVALS	REVISIONS
ASST. TRAFFIC ENGINEERING DESIGN DIVISION 5/14/99	
ASST. DISTRICT ENGINEER, TRAFFIC 5/14/99	
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION 5/14/99	
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
I-695: CHESACO AVENUE

SN2 GLDGN

DRAWN BY: R.C. / R.R.Z.	F.A.P. NO.	TIMS # D326	SHEET NO.
CHK. BY: M. Rauch	S.H.A. NO.	TS 4923 & TS 4924	3 OF 3
SCALE: N/A	COUNTY BALTIMORE		

SN2 1 of 3