

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a Flag in the Air with interconnect at the intersection of MD 210 (Indian Hwy) and Talbert Drive in Prince George's County. The Signal shall turn "Red" when the pedestrian pushbutton is activated allowing pedestrians to cross MD 210. MD 210 is assumed to run an north-south direction.

II. INTERSECTION OPERATION

- The intersection is to operate in a NEMA three-phase mode, with the MD 210 (Indian Head Hwy) approaches running concurrently. A pedestrian phase with pushbutton actuation from within a remote cabinet shall be provided across MD 210 (Indian Head Hwy).
- A controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer (Dave Swartz) at (410) 787-7650 seventy-two hours in advance of intended work.
- 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 construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST (CONT.)

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

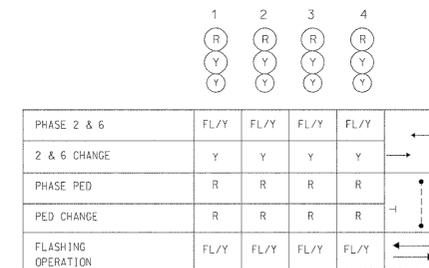
ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	5 C.Y.
5005	24" white heat applied permanent preformed thermoplastic pavement marking.	105 L.F.
8011	Furnish and install 12" vehicular traffic signal head section	8 EA
8019	Furnish and install 8" vehicular traffic signal head section.	4 EA
8020	Furnish and install control and distribution equipment (120/240 V, 1 phase 3 wire system).	1 EA
8022	Furnish and install 27' mast arm pole and 50' mast arm.	2 EA
8030	Furnish and install breakaway pedestal pole (4').	1 EA
8051	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - trenched	50 L.F.
8054	Furnish and install 12-pair communication cable, self-supporting (overhead).	900 L.F.
8057	Furnish and install concrete for signal foundation.	7 C.Y.
8060	Furnish and install No. 6 AWG stranded bare copper ground wire.	305 L.F.
8064	Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit - bored.	115 L.F.
8072	Furnish and install electrical handhole.	2 EA
8077	Install overhead sign.	40 S.F.
8080	Furnish and install ground rod - 3/4" x 10'.	3 EA
8082	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	180 L.F.
8084	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	510 L.F.
8092	Install controller and cabinet pole mount.	1 EA
Neg. 8048	Remove existing 12-pair communication cable	600 L.F.
Neg.	Pull back and reroute 12-pair interconnect cable	225 L.F.
Neg.	Install Pelco remote cabinet with all necessary equipment.	2 EA
Neg.	Hand dig pole foundation (1 mast arm pole, 1 pedestal pole).	4 C.Y.

EQUIPMENT LIST

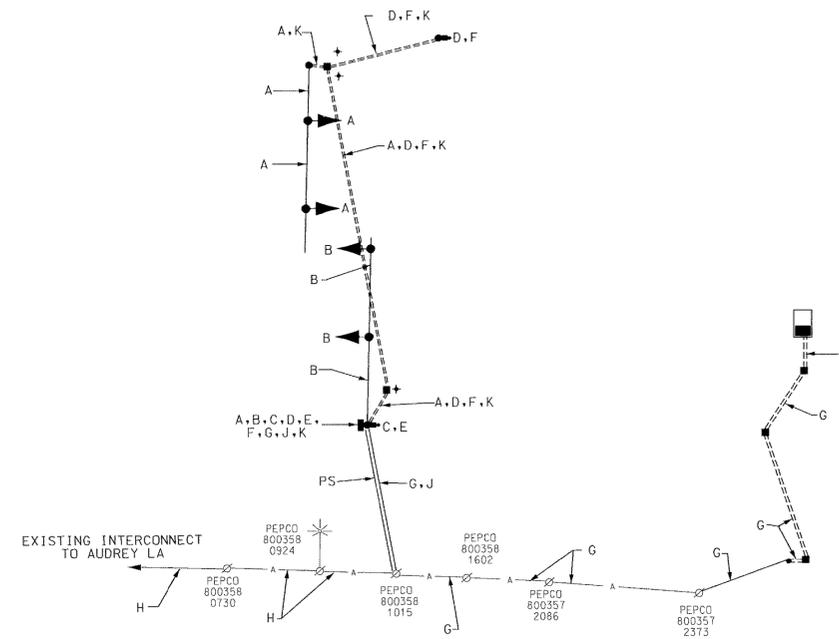
A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9000	Standard pedestrian pushbutton.	1 EA
9080	Eight-phase, full-traffic actuated, solid state digital controller with L.A.U., L.A.U. Panel housed in a NEMA size "5" pole mounted cabinet.	1 EA
9089	Sheet aluminum signs to consist of: S1-1 "SCHOOL" sign, (42" x 36") mast arm mounted.	21 SF
9090	Sheet aluminum signs to consist of: (Blue or Green) D3-2 "Talbert Dr (arrow) / (arrow) Talbert Dr" dual faced sign (variable x 16") mast arm mounted. D3-2 "Salisbury Dr (arrow) / (arrow) Salisbury Dr" dual faced sign (variable x 16") mast arm mounted.	19 SF
NEG.	Pelco Cabinet part #SE-1002 with flat plate part # SE-0138 and key type 1B.	2 EA
NEG.	Plastic box enclosure Part # 736-1620	2 EA
NEG.	Red LED 120 volt pixel Part # 556-1505-801	2 EA
NEG.	Amber LED 120 volt pixel Part # 556-1505-801	4 EA

PHASE CHART

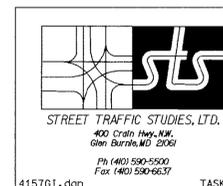


WIRING DIAGRAM



WIRING KEY

A, B, C, D	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
E, F	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
G	12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
H	EXISTING 12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
J	REROUTED 12-PAIR VOICE GRADE INTERCONNECT CABLE (OVERHEAD)
K	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
PS	PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY PEPCO.
+	GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 210 (INDIAN HEAD HWY.)
AND TALBERT DRIVE

DRAWN BY: ROB CICCHINI	F.A.P. NO.	TS NO.
CHECKED BY: RR ZACHERL	S.H.A. NO.	SHEET NO.
SCALE: NONE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO.
DATE: 3-4-02	LOG MILE:	2 OF 2