F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD	SEE BELOW		

TRAFFIC SIGNAL
Summary of Quantities

PROJECT DESCRIPTION

I. General

This portion of the project involves the installation of a new traffic control signal with intersection lighting, and hazard identification beacon at the intersection of US 301 (Crain Highway) at Lee land Road in Prince George's County, Maryland. US 301 is assumed to run in a north direction.

II. Intersection Operation

This intersection shall operate in a NEMA Three (3) phase fully actuated mode with northbound US 301 left turn operating in an exclusive phase. Eastbound Leeland Road will operate in an exclusive phase.

III. Special Notes

1.) Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 104.00 – 104.00–30, 104.44–01, 104.45–01, 104.48–01, 104.49–01, 104.50, 104.56–01.

2.) The following are SHA District 3 contact persons:

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division (410) 787–7630

Mr. Charles Watkins
District Engineer
(301) 513–7311

Mr. Majib Shakib
Asst. District Engineer – Traffic
(301) 513–7358

Mr. Randy Brown
Asst. District Engineer – Maintenance
(301) 513–7304

Mr. Sonny Lauer
District Engineer – Utility
(301) 513–7350

3.) The contractor shall deliver the traffic signal, controller and cabinet to the Maryland State Highway Administrations Office of Traffic and safety, a minimum of fourteen days prior to the installation of the controller for internal wiring and programming.

4.) Upon completion of this project, the contractor shall notify Mr. Robert Snyder of the SHA at (410) 787–7635 to arrange for the phone line installation. The contractor shall provide Mr. Snyder with the nearest street address and phone number.

Item No.	Quantity	Unit	Specification Section	Description
1001	1	LS	104	Maintenance of Traffic
2001	4	CY	206	Test pit excavation
5001	200	LF	555	F&I 24" white thermoplastic pavement marking tape
5002	6000	LF	555	F&I 6" white paint line
5003	6000	LF	555	F&I 6" yellow paint line
8002	3	EA	818	F&I 27 ft. steel plate with a single 60 ft. mast arm.
8004	1	EA	816	F&I Econorite ASGII 8 phase controller and cabinet w/intersection monitor and battery back–up and 3–four channel rack mounted loop detach amplifier. As per MD–SHA's latest. Specifications.
8006	6	EA	814	F&I 12in, one–way, 3–section (R,Y,G) signal head–mast arm mount.
8007	1	EA	814	F&I 12in. one–way, 3–section (RA,YA,GA) signal head–mast arm mount
8008	1	EA	814	F&I 12in., one–way, 3–section (RA,YA,GA) signal head–mast arm mount.
8009	229	SF	813	Furnish sheet aluminum signs
8010	175	SF	813	Install ground mounted sign
8011	54	SF	813	Install mast arm mounted sign
8012	80	LF	812	F&I 4in. X 6in. Wood sign support.
8013	40	LF	812	F&I 4in. X 4in wood sign support.
8014	15	CY	801	F&I concrete for signal foundation.
8015	4	EA	804	F&I ground rod – 3/4in. Diameter X 10ft. Length.
8016	2	EA	818	F&I 20 Light bracket arm for signal structure.
8017	2	EA	806	F&I 250 watt HPS lamp & Luminaire.
8018	11	EA	811	F&I electrical handhole.
8019	4	EA	815	F&I micro loop probe set with 1000ft. Lead–in cable.
8020	2	EA	815	F&I micro loop probe set with 500ft. Lead–in cable.
8021	380	LF	815	F&I Saw cut for signal loop detector.
8022	50	LF	805	F&I 1in. Liquid tight, flexible, nonmetallic conduit for detector wire sleeve.
8023	1760	LF	805	F&I 2in. Schedule 80 rigid PVC electrical conduit trenched.
8024	370	LF	805	F&I 3in. Schedule 80 rigid PVC electrical conduit–pushed.
8025	40	LF	805	F&I 4in. Schedule 80 rigid PVC electrical conduit–pushed.
8026	40	LF	805	F&I 4in. Schedule 80 rigid PVC electrical conduit–trenched.
8027	1440	LF	810	F&I loop wire encased in flexible tubing. (No. 14 AWG).
8028	300	LF	810	F&I 2 conductor electrical cable (No. 14 AWG) aluminum shielded.
8029	100	LF	810	F&I 3 conductor electrical cable (No. 14 AWG)
8030	950	LF	810	F&I 2 conductor electrical cable (No. 12 AWG) copper type T/C.
8031	80	LF	810	F&I 5 conductor electrical cable (No. 14 AWG)
8032	1100	LF	810	F&I 7 conductor electrical cable (no. 14 AWG)
8033	1500	LF	810	F&I 1–conductor (No. 6 AWG) stranded bare copper ground wire.
8034	400	LF	810	F&I 1–conductor electrical cable (No. 14awg – THHN/THWN).
8036	1	EA		F&I control & distribution equipment.

REVISIONS

APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

WELLS & ASSOCIATES, LLC
TRAFFIC, TRANSPORTATION, and PARKING CONSULTANTS
Suite 600, 1420 Spring Hill Rd., McLean, Virginia 22102
Telephone: 703/917–6620 Facsimile: 703/917–0739

MARYLAND DOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
US ROUTE 301 (Crain Highway) at LEELAND ROAD
GENERAL INFORMATION SHEET

DATE 10/07/97

DRAWN BY: DAO/CJP	F.A.P. NO.		PLAN SHEET NO.:	SHEET NO.
CHECK BY: D Ohler	S.H.A. NO.			
SCALE: 1"=20'	COUNTY	Prince George's		