DRILL HOLES

BORDER REV. DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting at the intersection of MD 202 (Landover Rd) and 57th Avenue in Prince George's County. LED signal head modules shall be installed into he existing traffic signal heads. Also, the existing pedestrian signals shall be replaced by Countdown pedestrian signals with audible pushbuttons. All ramps will be upgraded to ADA standards. MD 202 (Landover Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA five-phase, semi-actuated mode, with the MD 202 (Landover Rd) approaches running concurrently. The Exclusive/Permissive left turn phase for the northbound MD 202 (Landover Rd) approach shall remain in operation. The pedestrian phases across both legs of MD 202 (Landover Rd) shall now be Countdown pedestrian phases with audible pushbutton activation. The pedestrian phases across both legs of 57th Avenue shall now be Countdown pedestrian phases with audible pushbuttons on recall. The 57th Avenue approaches shall also continue to run concurrently.

2. The existing full-traffic-actuated, eight-phase controller with video interface and all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection.

3. SHA signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Control Unit and audible pushbuttons to the SHA Signal Shop for testing and programming.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.

2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.

3. 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.

The contact persons for District #3 (Prince George's County) and SHA are as follows:

Ms. Felecia Murphy
Assistant District Engineer - Traffic
Phone: (301) 513-7404

Mr. Vernon Stinnett
District Engineer - Maintenance
Phone: (301) 513-7304

Mr. Victor Grafton
Assistant District Engineer - Utility
Phone: (301) 513-7350

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

Mr. Ed Rodenhizer
Manager, Signal Operations Section
410-787-7652

Mr. Sonny Bailey
Manager, Sign Shop Operations
410-787-7676

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (pole mount)	18 SF
	M1-5(6) GUIDE SHIELD ASSEMBLY (30"x48") pole mounted. NORTH / MD 202 / RIGHT ARROW	1 EA
	Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS LANDOVER RD".)	4 EA
	Pedestrian education R10-3(1) sign (9"x15"). (Note: Sign to read "PUSHBUTTON TO CROSS 57TH AVE".)	4 EA

EQUIPMENT LIST (cont.)

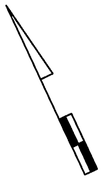
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2001	Class 2 Excavation.	3 C.Y.
2002	Test Pit Excavation	5 C.Y.
5001	Removal of existing permanent pavement line markings any width	600 L.F.
5005	12" white preformed thermoplastic pavement marking lines	510 L.F.
5006	24" white preformed thermoplastic pavement marking lines.	110 L.F.
6001	Standard type A combination curb and gutter 12" gutter pan 8" depth.	230 L.F.
6002	5" concrete sidewalk.	1190 S.F.
8002	2 wire Central Control unit	1 EA
8004	8" LED signal head section.	3 EA
8006	Adjust existing handhole to grade.	4 EA
8007	Audible/tactile pedestrian pushbutton station & signs.	8 EA
8008	Breakaway pedestal pole (10')	4 EA
8008	Breakaway pedestal pole (5')	1 EA
8010	LED 16" countdown pedestrian signal head.	8 EA
8011	LED signal head modules (any size).	34 EA
8013	Remove and dispose of equipment (per assignment)	1 EA
8018	Schedule 80 rigid PVC conduit up to 4" - trenched.	75 L.F.
8019	Detectable warning surface for curb ramps	112 S.F.
8023	Electrical cable - 2 conductor (No. 14 AWG).	1060 L.F.
8025	Electrical cable - 5 conductor (No. 14 AWG).	1250 L.F.
8026	Electrical cable - 7 conductor (No. 14 AWG).	300 L.F.
8032	Cut, clean, galvanize and cap traffic signal structure.	3 EA
8033	No. 6 AWG stranded bare copper ground wire.	85 L.F.
8034	Install overhead or ground mounted sign.	18 S.F.

C. EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

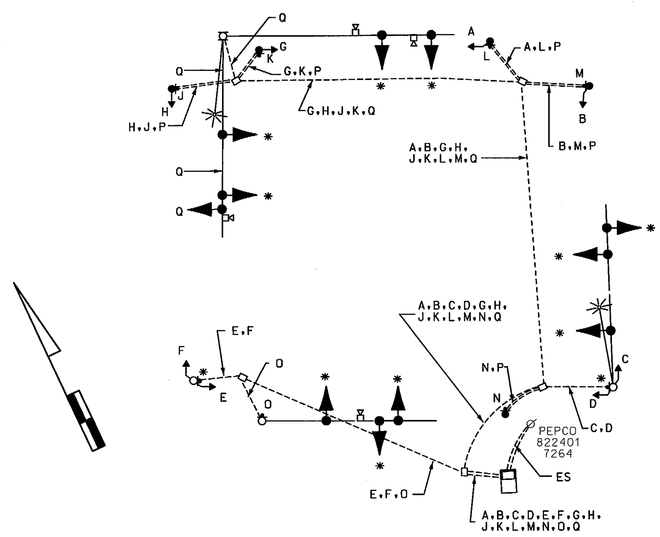
PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 2 & 5	R	R	◄G-/G	◄G-/G	G	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 & 5 CHANGE	R	R	◄Y-/G	◄Y-/G	G	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 & 6	G	G	G	G	G	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR / COUNTDOWN	G	G	G	G	G	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEAR / COUNTDOWN	R	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
4 & 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

TOD NO: XX427-17S
SHA NO: PG728A55/B55
MD 202 @ 57th Avenue

WIRING DIAGRAM



WIRING KEY

A, B, C, D, G, H, J, K, L, M, N, O — 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

E, F — 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

P - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

Q - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

✱ - USE EXISTING WIRING

EPD - EXISTING PHONE DROP

ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

REVISION "F"

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. NW.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-5637

59046I.DGN T-281

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 202 (LANDOVER RD) AND 57TH AVENUE

BLADENSBURG, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 10/21/10 CONTRACT NO. XX4275185

DESIGNED BY J.W.A. COUNTY PRINCE GEORGE'S
DRAWN BY R.C. LOGMILE 16020213.60
CHECKED BY TIMS NO. J621
F.A.P. NO. TOD NO.

TS NO. 70F-GI | DRAWING NO. 3 OF 3 | SHEET NO. OF

PLOTTED: $DATETIME$
FILE: $FILE$

DRILL HOLES

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