DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing strain pole Traffic Control Signal with interconnect at the intersection of MD 214 (Central Ave) and Addison Road in Prince George's County. The existing Exclusive/Permissive left turn phases on both directions of MD 214 (Central Ave) shall be replaced with Exclusive left turn phases. A westbound MD 214 queue loop shall be installed in the left turn bay. All traffic signals shall be upgraded to LED signal heads. MD 214 (Central Ave) is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 214 (Central Ave) approaches running concurrently. Exclusive left turn phases shall be provided for both approaches of MD 214 (Central Ave). The westbound Exclusive left turn phase shall operate as lag left turn. Additionally, when a queue is detected in the westbound left turn lane, the westbound Exclusive left turn phase shall also operate in conjunction with the eastbound Exclusive left turn phase (as a lead left turn phase) thus allowing it to activate twice in one cycle length. The Countdown pedestrian phases with audible pushbutton actuation across both legs of MD 214 (Central Ave) shall remain in operation. The Countdown pedestrian phases with audible pushbuttons across Addison Road shall remain on recall. The Addison Road approaches shall continue to operate as a side street split phase.

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

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.

4. APS functions as follows:

TO CROSS CENTRAL AVENUE

a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message " Wait to cross Central at Addison wait ."

b. When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

TO CROSS ADDISON ROAD

a When pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message " Wait to cross Addison at Central wait ."

b. When the WALK phase begins, the pushbutton unit will provide a rapid tick which will last for the duration of the WALK phase.

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

There is no equipment to be supplied to the SHA.

EQUIPMENT LIST (CONT.)

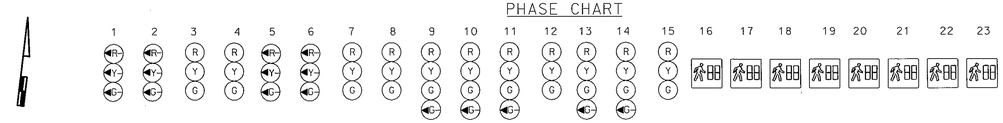
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
8001	12" LED signal head section.	44 EA
8007	8" LED signal head section.	6 EA
8016	Remove and dispose of existing material & equipment per assignment.	1 EA
8030	Remove - reset decorative brick sidewalk.	5 SF
8036	1" liquid tight flexible non-metallic conduit (detr sleeve).	7 L.F.
8054	Electrical cable - 2 conductor (aluminium shielded)	265 L.F.
8057	Electrical cable - 5 conductor (No. 14 AWG).	910 L.F.
8059	Loop wire encased in flexible tubing (No. 14 AWG).	560 L.F.
8060	Saw cut for signal (loop detector).	200 L.F.

C. EQUIPMENT TO BE REMOVED

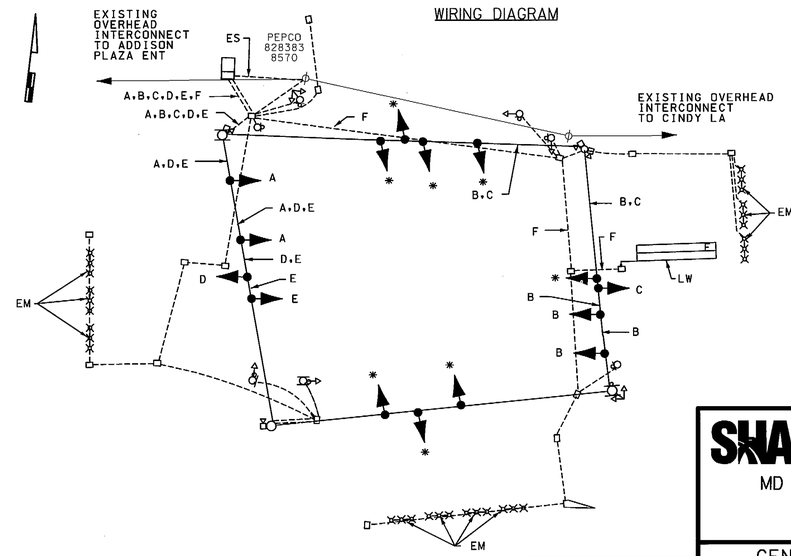
All removed signal materials are to become property of the contractor.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PHASE 1 & 5	◄G–	◄G–	R	R	◄G–	◄G–	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																							
PHASE 1 & 6	◄G–	◄G–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 & 6 CHANGE	◄Y–	◄Y–	G	G	◄R–	◄R–	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 & 5	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
2 & 5 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	G	G	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 & 6	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEAR / COUNTDOWN	◄R–	◄R–	G	G	◄R–	◄R–	G	G	R	R	R	R	R	R	R	WK	FL/DW	FL/DW	WK	DW	DW	DW	DW
2 & 6 CHANGE	◄R–	◄R–	Y	Y	◄R–	◄R–	G	G	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 2 & 5	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PED CLEAR / COUNTDOWN	◄R–	◄R–	R	R	◄G–	◄G–	G	G	R	R	R	R	R	R	R	FL/DW	DW	DW	FL/DW	DW	DW	DW	DW
2 & 5 CHANGE	◄R–	◄R–	R	R	◄Y–	◄Y–	Y	Y	R	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW	DW	DW
PHASE 3	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G ◄G–	G ◄G–	G ◄G–	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	R	G ◄G–	G ◄G–	G	DW	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G ◄G–	G ◄G–	G ◄G–	G	R	R	R	DW	DW	DW	DW	DW	WK	WK	DW
PED CLEAR / COUNTDOWN	◄R–	◄R–	R	R	◄R–	◄R–	R	R	G ◄G–	G ◄G–	G ◄G–	G	R	R	R	DW	DW	DW	DW	DW	FL/DW	FL/DW	DW
3 CHANGE ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	R	G ◄G–	G ◄G–	G	DW	DW	DW	DW	WK	DW	DW	WK
PED CLEAR / COUNTDOWN	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	R	G ◄G–	G ◄G–	G	DW	DW	DW	DW	FL/DW	DW	DW	FL/DW
4 CHANGE ALT	◄R–	◄R–	R	R	◄R–	◄R–	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/◄R	FL/◄R	FL/Y	FL/Y	FL/◄R	FL/◄R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



TOD NO: XX449-56
SHA NO: PG556A5J/B5J
MD 214 @ Addison Road

WIRING KEY

A B C D E } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)

F -2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) ALUMINUM SHIELDED

* -USE EXISTING WIRING

EM-EXISTING MICROLOOP

LW-LOOP WIRE (NO. 14 A.W.G.)

ES- EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 214 (CENTRAL AVE) AND ADDISON ROAD

SEAT PLEASANT, MD

GENERAL INFORMATION SHEET

SCALE NONE DATE 11/9/2010 CONTRACT NO. XX4495185

DESIGNED BY R.R.Z. COUNTY PRINCE GEORGE'S
DRAWN BY R.C. LOGMILE 16021400.87
CHECKED BY 11/10 TIMS NO.
F.A.P. NO. TOD NO.

TS NO. DRAWING NO. 2 OF 2 SHEET NO. OF

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-5537

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PLOTTED: $DATETIME$
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