DRILL HOLES

BORDER REV: DATE: June 1, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing mast arm Traffic Control Signal with interconnect at the intersection of MD 214 (Central Ave) and Garrett A. Morgan Blvd / Ritchie Rd in Prince George's County. Video detection shall be installed at this location. MD 214 (Central Ave) is assumed to run 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. The Exclusive left turn phases for both approaches of MD 214 (Central Ave) shall continue to be provided. The pedestrian phase with pushbutton actuation across the east leg of MD 214 (Central Ave) shall remain in operation. The pedestrian phases across Garrett A. Morgan Blvd and Ritchie Rd shall remain on recall. The Garrett A. Morgan Blvd / Ritchie Rd approaches shall continue to operate as a side street split phase.

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

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) 513-7424

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

EQUIPMENT LIST

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

ITEM NO.	DESCRIPTION	QUANTITY
9087	Video detection interface equipment: 5-8 cameras (To be installed by signal shop).	1 EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

	ITEM NO.	DESCRIPTION	QUANTITY
	1002	Maintenance of traffic per assignment.	1 EA
	8007	Remove and dispose of equipment per assignment.	1 EA
	8008	Video detection camera & cable	5 EA
2	8014	Schedule 80 rigid PVC conduit up to 4" - slotted.	95 LF
1	8020	Loop wire encased in flexible tubing (No. 14 AWG).	390 LF
1	8021	Saw cut for signal (loop detector).	140 LF

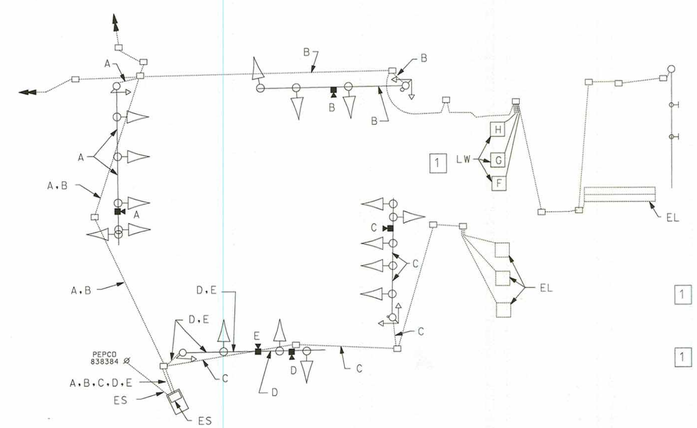
C. EQUIPMENT TO BE REMOVED

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
PHASE 1 & 5	◄G-	◄G-	◄G-	R	R	◄G-	◄G-	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6																						
PHASE 1 & 6	◄G-	◄G-	◄G-	G	G	◄R-	◄R-	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
1 & 6 CHANGE	◄Y-	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 5	◄R-	◄R-	◄R-	R	R	◄G-	◄G-	G	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
2 & 5 CHANGE	◄R-	◄R-	◄R-	R	R	◄Y-	◄Y-	G	G	G	R	R	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 6	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 & 6 CHANGE	◄R-	◄R-	◄R-	Y	Y	◄R-	◄R-	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R/-G►	R	R	R	G ◄G-	G ◄G-	G	DW	DW	DW	DW	DW	DW
3 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R/-Y►	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	G ◄G-	G ◄G-	G	R	R	R	DW	DW	DW	DW	DW	DW
4 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	G ◄G-	G ◄G-	G	R	R	R	DW	DW	DW	DW	WK	WK
PED CLEAR	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	G ◄G-	G ◄G-	G	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/◄R-	FL/◄R-	FL/◄R-	FL/Y	FL/Y	FL/◄R-	FL/◄R-	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A, B, C, D, E — CONTROL CABLE (CAMERA TO CONTROLLER) UP TO 500'

F, G, H — EXISTING 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED SPLICED TO NEW LOOP WIRE

EL - EXISTING LOOP WIRE

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

ES - EXISTING UNDERGROUND SERVICE TO BE MAINTAINED BY PEPCO

1 Redline Revision Dated October 24, 2011

2 Redline Revision Dated April 11, 2012

SHA MDOT - SHA O.O.T.S.
S.H.A. Approval Date 4/16/2012
T.S. # 3991 T.I.M.S. # K923

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 214 (CENTRAL AVE.) AND GARRETT A. MORGAN BLVD/ RITCHIE ROAD
LARGO, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 9/22/11 CONTRACT NO. XX6565185

DESIGNED BY R.R.Z. COUNTY PRINCE GEORGE'S
DRAWN BY R.C. LOGMILE 16021402.76
CHECKED BY TIMS NO. K923
F.A.P. NO. TOD NO.

TS NO. 3991 | DRAWING NO. 2 OF 2 | SHEET NO. OF

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5993GI.DGN T-142

PLOTTED: $DATETIME$
FILE: $FILE$