DRILL HOLES

BORDER REV. DATE: June 1, 2004

DRILL HOLES

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PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing strain pole Traffic Control Signal with street lighting at the intersection of MD 197 (Collington Rd) and Northview Drive in Prince George's County. An Opticom eye for vehicle emergency detection shall be installed for the eastbound approach of Northview Drive due to the construction of a new Fire Station south of the intersection. MD 197 (Collington Rd) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the MD 197 (Collington Rd) approaches running concurrently. Exclusive left turn phases for both approaches of MD 197 (Collington Rd) shall remain in operation. The pedestrian phases across MD 197 (Collington Rd) shall remain Countdown pedestrian phases with audible pushbutton actuation. The pedestrian phase across the west leg of Northview Rd shall remain a Countdown pedestrian phase with audible pushbuttons on recall. Farside sampling stations shall remain in operation on both legs of MD 197 (Collington Rd) at this intersection. The Northview Rd approaches shall continue to run as a side street split phase. A new pre-empt phase shall be installed for the eastbound approach of Northview Drive.

2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet shall be utilized at this intersection. An opticom discriminitor module shall be installed into the existing cabinet by SHA Forces.

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) are as follows:

Mr. Venu Nemani
Assistant District Engineer - Traffic
Phone: (301) 513-7404

Mr. Tom Fountain
Assistant District Engineer - Maintenance
Phone: (301) 513-7304

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

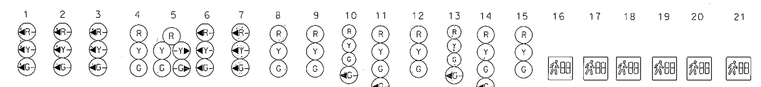
The contact persons for SHA - Office of Traffic & Saftey are as follows:

Ms. Corren Johnson
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Robert Snydey
Assistant Chief, Traffic Operations Division
Phone: (410) 787-7631

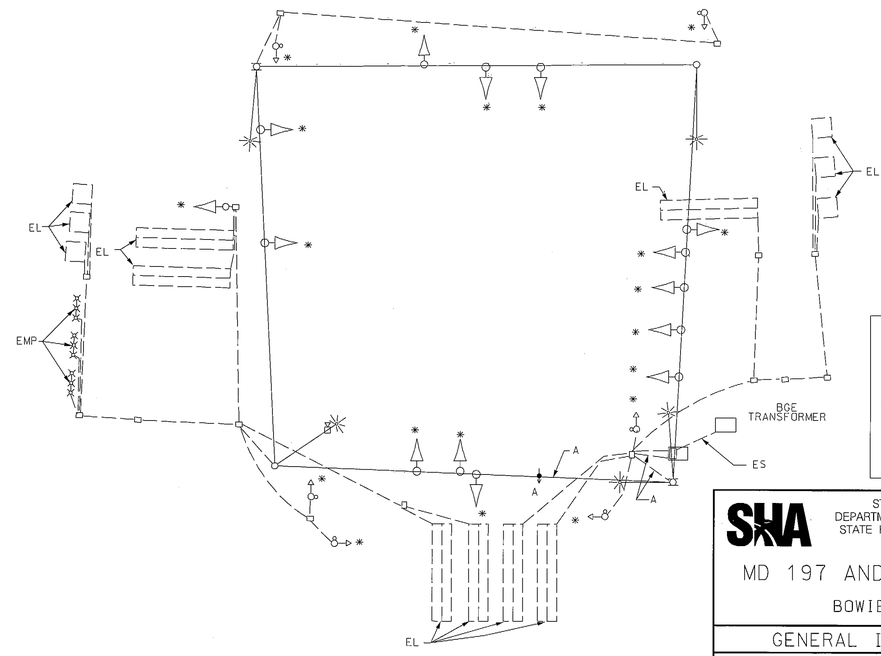
Mr. Ed Rodenhizer
Manager, Signal Operations
Phone: (410)-787-7652

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
PHASE 1 & 5	◄G-	◄G-	◄G-	R	R	◄G-	◄G-	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	WK	WK	DW	DW	DW	DW
1 & 6 CHANGE	◄Y-	◄Y-	◄Y-	G	G	◄R-	◄R-	R	R	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
PHASE 2 & 5	◄R-	◄R-	◄R-	R	R	◄G-	◄G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 & 5 CHANGE	◄R-	◄R-	◄R-	R	R	◄Y-	◄Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW	DW	DW
PED CLEAR / COUNTDOWN	◄R-	◄R-	◄R-	G	G	◄R-	◄R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW	DW	DW
2 & 6 CHANGE	◄R-	◄R-	◄R-	Y	Y	◄R-	◄R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	◄R-	◄R-	◄R-	R	R/-G►	◄R-	◄R-	R	R	G/◄G-	G/◄G-	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	◄R-	◄R-	◄R-	R	R/-Y►	◄R-	◄R-	R	R	Y	Y	Y	R	R	R	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
4 CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 3 ALT	◄R-	◄R-	◄R-	R	R/-G►	◄R-	◄R-	R	R	G/◄G-	G/◄G-	G	R	R	R	DW	DW	DW	WK	WK	DW
PED CLEAR / COUNTDOWN	◄R-	◄R-	◄R-	R	R/-G►	◄R-	◄R-	R	R	G/◄G-	G/◄G-	G	R	R	R	DW	DW	DW	FL/DW	FL/DW	DW
3 ALT CHANGE	◄R-	◄R-	◄R-	R	R/-Y►	◄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	R	R	G/◄G-	G/◄G-	G	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	FL/DW	DW	DW	FL/DW
4 ALT CHANGE	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PRE EMPT 1	◄R-	◄R-	◄R-	R	R	◄R-	◄R-	R	R	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW
PRE EMPT 1 CHANGE	◄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/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - 4-CONDUCTOR OPTICOM CABLE

* - USE EXISTING CABLE

EMP - EXISTING MICROPROBE

EL - LOOP WIRE (NO. 14 A.W.G.) EXISTING

ES - EXISTING UNDERGROUND SERVICE

TOD NO. XX5255-01
SHA NO. PG072851
MD 197 @ Northview Drive

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE SHA

ITEM NUMBER	CATEGORY CODE	DESCRIPTION	QUANTITY	UNITS
9122	900000	OPTICOM PHASE SELECTOR (DISCRIMINATOR MODULE)	1	EA

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NUMBER	CATEGORY CODE	DESCRIPTION	QUANTITY	UNITS
1001	100000	MAINTENANCE OF TRAFFIC	1	EA
8036	800000	4 CONDUCTOR OPTICON CABLE	120	LF
8054	816215	OPTICOM NO. 721 DETECTOR EYE	1	EA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 197 AND NORTHVIEW DRIVE

BOWIE, MARYLAND

GENERAL INFORMATION SHEET

SCALE NONE DATE 4/3/13 CONTRACT NO. XX5255/05

DESIGNED BY J.W.A. COUNTY PRINCE GEORGE'S
DRAWN BY R.C. LOGMILE 16019701.22
CHECKED BY M.K. / D.D. TIMS NO. J916
F.A.P. NO. TOD NO.

TS NO. 2264F | DRAWING NO. 2 OF 2 | SHEET NO. OF

PLOTTED: THURSDAY, APRIL 18, 2013 AT 02:56 PM
FILE: J:\DATA\J916\DESIGN FILES\J916GG01.DGN