PROJECT DESCRIPTION

I. GENERAL

This project involved the installation of the Uninterruptible Power Supply (UPS) system for the existing traffic signal system at the intersection of US 13 Business (Fruitland Boulevard) and Cedar Lane/ MD 513 (E. Cedar Lane) in Wicomico County.

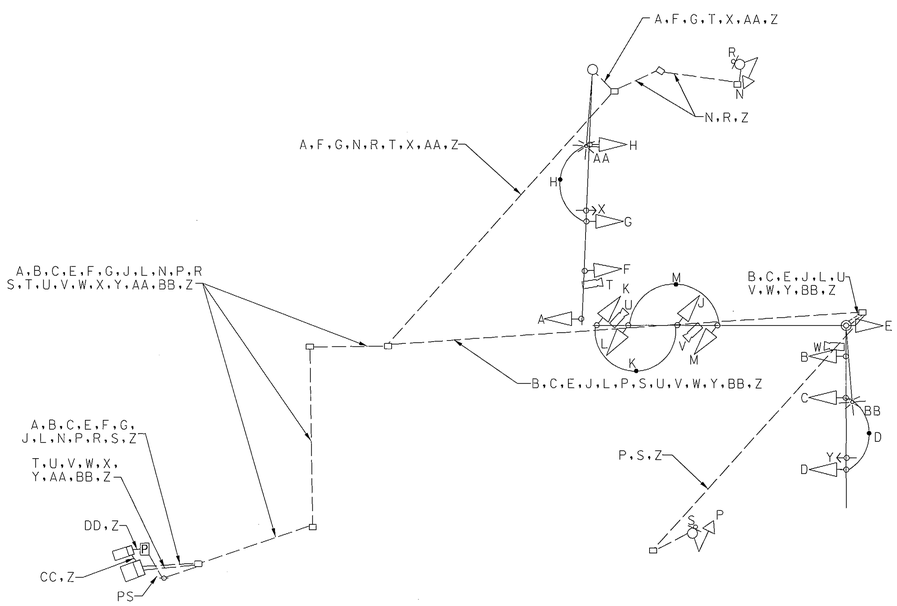
II. INTERSECTION OPERATION

The intersection operates in a NEMA six-phase, full-traffic-actuated mode. There are exclusive left-turn phases for north and southbound US 13 and split phase operations on Cedar Lane/ MD 513, with an alternate pedestrian phase concurrent with westbound Cedar Lane. There is a railroad and opticom preemption for phases two and six. This intersection uses a base mounted signal cabinet and UPS cabinet.

WIRING DIAGRAM

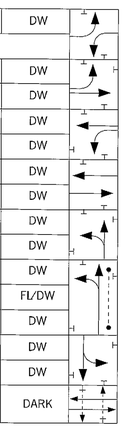
KEY

A, C, E, G, J, L	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
B, D, F, H, K, M, N, P	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
X, Y	4 CONDUCTOR OPTICOM CABLE
R, S	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
AA, BB	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
CC	1 CONDUCTOR (NO. 8 AWG)
DD	3 WIRE, 1 CONDUCTOR (NO. 4 AWG) THHN/ THWN
T, U, V, W	VIDEO DETECTION CABLE
Z	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	←R– ←Y– ←G–	←R– ←Y– ←G–	R Y G	R Y G	←R– ←Y– ←G–	←R– ←Y– ←G–	R Y G	R Y G	R Y G ←G–	R Y G	R Y G ←G–	R Y G		
PHASE 1 AND 5	←G–	←G–	R	R	←G–	←G–	R	R	R	R	R	R	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6														
PHASE 1 AND 6	←G–	←G–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW
1 AND 6 CHANGE	←Y–	←Y–	G	G	←R–	←R–	R	R	R	R	R	R	DW	DW
PHASE 2 AND 5	←R–	←R–	R	R	←G–	←G–	G	G	R	R	R	R	DW	DW
2 AND 5 CHANGE	←R–	←R–	R	R	←Y–	←Y–	G	G	R	R	R	R	DW	DW
PHASE 2 AND 6	←R–	←R–	G	G	←R–	←R–	G	G	R	R	R	R	DW	DW
2 AND 6 CHANGE	←R–	←R–	Y	Y	←R–	←R–	Y	Y	R	R	R	R	DW	DW
PHASE 3	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	DW	DW
3 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW
PHASE 3 ALT	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	WALK	DW
PED CLEARANCE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	←G/G	G	FL/DW	FL/DW
3 ALT CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	R	R	Y	Y	DW	DW
PHASE 4	←R–	←R–	R	R	←R–	←R–	R	R	←G/G	G	R	R	DW	DW
4 CHANGE	←R–	←R–	R	R	←R–	←R–	R	R	Y	Y	R	R	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/R	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK



BY: Fanuszewski

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE MD 21127
(410) 737-6564
WWW.SABRA-WANG.COM

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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 BUSINESS (FRUITLAND BOULEVARD)

AT CEDAR LANE/MD 513 (E. CEDAR LANE)

SALISBURY, MARYLAND

GENERAL INFORMATION SHEET

SCALE N.T.S. ADVERTISED DATE FEBRUARY 2010 CONTRACT NO. WI-599-501-185

DESIGNED BY		COUNTY	WICOMICO
DRAWN BY	R.A./L.R.	LOGMILE	22B01302.64
CHECKED BY	A. GRIFFIN	TIMS NO.	I 955
F.A.P. NO.		TOD NO.	

TS NO. 1830G	DRAWING – OF	SHEET NO. 2 OF 2