PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT US 13 BUSINESS (FRUITLAND BOULEVARD) AND CEDAR LANE/MD 513 (E. CEDAR LANE) IN WICOMICO COUNTY. APS AND CPS WILL BE INSTALLED ACROSS THE NORTH LEG. US 13 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EXISTING MAINLINE EXCLUSIVE LEFT TURN, MAINLINE PRE-EMPTION, RAILROAD PRE-EMPTION AND SIDE STREET SPLIT PHASES WILL REMAIN. THE ALTERNATE SIDE STREET PEDESTRIAN PHASE WILL REMAIN FOR PHASE 3.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT AND ONE (1) VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

FOR FRUITLAND BOULEVARD

A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS FRUITLAND BOULEVARD".

B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #1 / OOTS ARE AS FOLLOWS:

District 1

Mr. Gene Coffell
Assistant District Engineer - Traffic
Phone: 410-677-4040

Mr. Bruce Poole
District Utility Engineer
Phone: 410-677-4082

Mr. James Wright
Assistant District Engineer - Maintenance
Phone: 410-677-4010

Mr. Ravindra Ganvir
Assistant District Engineer - Construction
Phone: 410-677-4020

Office Of Traffic & Safety

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

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative is:
Delmarva Power
2530 N Salisbury Blvd.
Salisbury, Maryland 21801
1-800-375-7117

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9086	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	28 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGNS: 3 EA - R10-3(1) (9 IN. x 15 IN.) "FRUITLAND BLVD." 1 EA - M95-1(MOD) (36 IN. x 96 IN.) "SOUTH, M5-1, M1-4(1), NORTH, M6-1"

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5003	335 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5004	80 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
5006	375 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
6001	50 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	210 SF	5 INCH CONCRETE SIDEWALK
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8006	1 EA	ADJUST HANDHOLE TO GRADE
8007	3 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8011	2 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8014	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8020	10 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8021	40 SF	DETECTABLE WARNING SURFACES
8027	10 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8032	28 SF	INSTALL OVERHEAD SIGN
8033	1 EA	VIDEO DETECTION CAMERA AND CABLE UP TO 500 FT.
8037	1350 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8039	950 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST 'C'

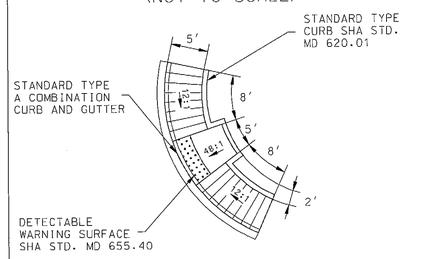
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

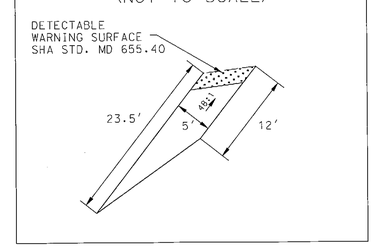
NW SIDEWALK RAMP DETAIL

(NOT TO SCALE)

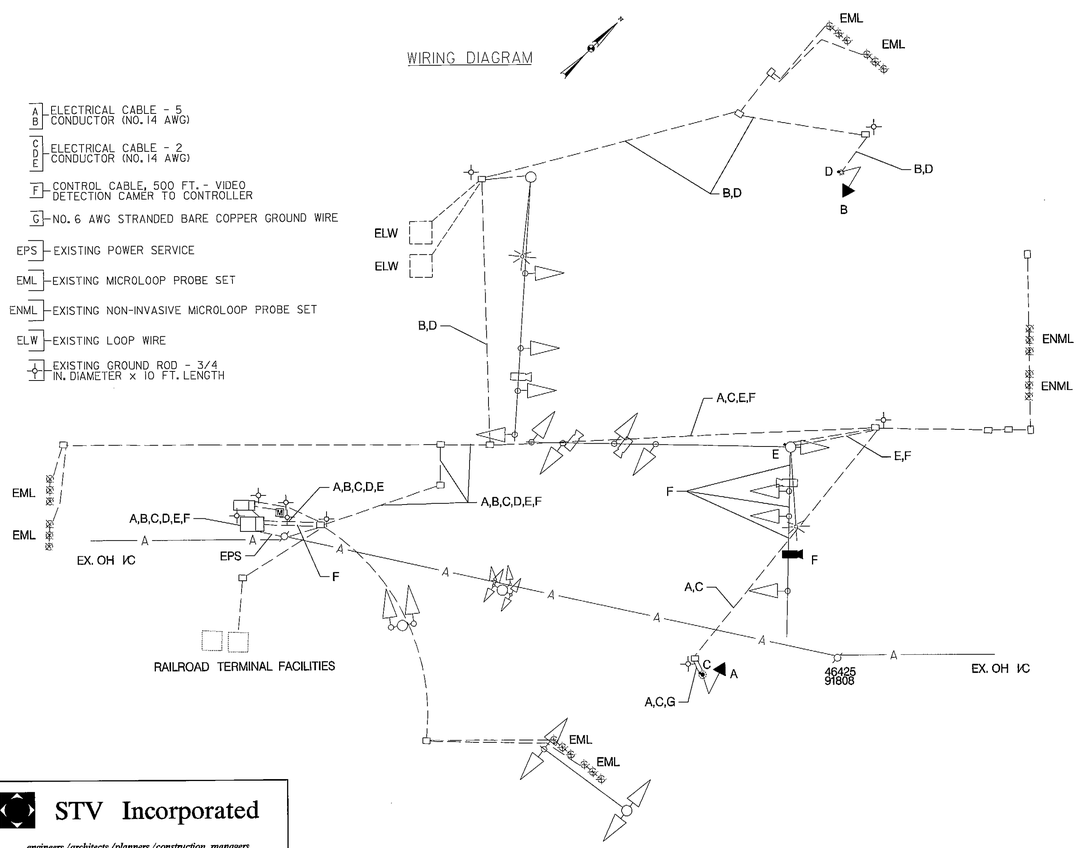


NE SIDEWALK RAMP DETAIL

(NOT TO SCALE)



WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	RR Y G	RR Y G	R Y G	R Y G	RR Y G	RR Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	PA PB	PA PB
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													DW	DW
PHASE 1 AND 6	◂G-	◂G-	G	G	◂R-	◂R-	R	R	R	R	R	R	DW	DW
1 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
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
PHASE 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	W	W
PHASE 3 PED CLEARANCE	◂R-	◂R-	R	R	◂R-	◂R-	R	R	R	R	◂G-/G	G	FL/DW	FL/DW
PHASE 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
PHASE 4 CHANGE	◂R	◂R	R	R	◂R	◂R	R	R	Y	Y	R	R	DW	DW
PRE-EMPTION PHASE 2 AND 6	◂R-	◂R-	G	G	◂R-	◂R-	G	G	R	R	R	R	DW	DW
PRE-EMPTION 2 AND 6 CHANGE	◂R-	◂R-	Y	Y	◂R-	◂R-	Y	Y	R	R	R	R	DW	DW
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK
PRE-EMPTION RAILROAD	◂R-	◂R-	G	G	◂R-	◂R-	G	G	R	R	R	R	DW	DW

TOD NO:W138A53/B53
SHA NO:XX340-12
US 13B@ MD 513

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)

FRUITLAND, MARYLAND

GENERAL INFORMATION

SCALE NONE ADVERTISED DATE 01/2009 CONTRACT NO. XX3405185

DESIGNED BY MCG
DRAWN BY MCG
CHECKED BY BAB
F.A.P. NO. SEE TITLE SHEET

COUNTY WICOMICO
LOGMILE 22B01302.64
TIMS NO. I-476
TOD NO.

TS NO.1830G-GI | DRAWING SG-02 OF 02 | SHEET NO. 2 OF 2

STV Incorporated
engineers/architects/planners/construction managers
7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112

BY: guillamc

PLOTTED: Monday, January 12, 2009 AT 02:52 PM
FILE: I:\PROJECTS\0312121\0312121_0032\Drawings\TRA\4301_US 13B at MD 513\pSG-N000_MD513.dgn