PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF X-FLO IN GROUND PEDESTRIAN DETECTORS FOR THE SOUTH LEG CROSSING AS WELL AS THE UPGRADE OF ALL SIDEWALK RAMPS TO BE ADA COMPLIANT AT THE INTERSECTION OF MD 355 (ROCKVILLE PIKE) AND SOUTH DRIVE/SOUTHWOOD ROAD IN MONTGOMERY COUNTY. MONTGOMERY COUNTY WILL ALSO INSTALL A 5 SECOND LEAD PEDESTRIAN INTERVAL FOR THE SOUTH LEG CROSSING.
MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTIVATED MODE. MD 355 EXCLUSIVE/PERMISSIVE LEFT TURNS AND PEDESTRIAN PHASING SHALL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER AND ASSOCIATED HARNESSES SHALL REMAIN.

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 MONTGOMERY COUNTY FORCES. CONTACT KAMAL HAMUD AT (240) 777-8761 72 HOURS IN ADVANCE OF INTENDED WORK.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Cedric Ward
Assistant District Engineer - Traffic
Phone: 301-513-7358

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

Mr. Vernon Stinnett
Assistant District Engineer - Maintenance
Phone: 301-513-7304

OFFICE OF TRAFFIC AND SAFETY:

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

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

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

Mr. Eugene Bailey
Chief Sign Operations
410-787-7670

MONTGOMERY COUNTY:

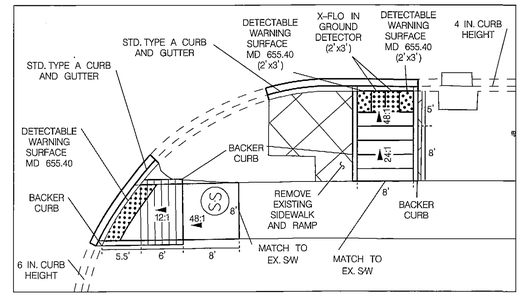
Mr. Kamal Hamud
Traffic Engineering
240-777-8761

Mr. Bob Ricketts
Signal Shop
301-279-1975

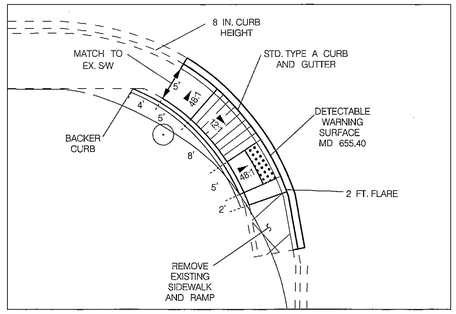
The Power Company is:
Pepco
8300 Old Marlboro Pike
Upper Marlboro, MD 20442
Phone: 301-961-5325

ADA SIDEWALK RAMP DETAILS

SW CORNER RAMP - 1"=10'

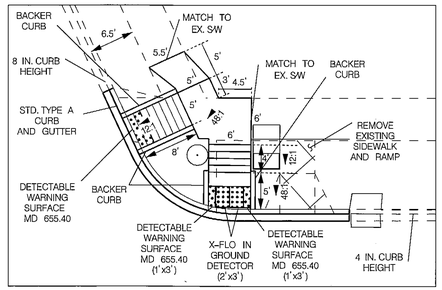


NW CORNER RAMP - 1"=10'

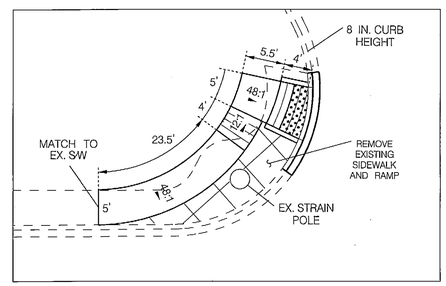


SIDEWALK TO BE REMOVED

SE CORNER RAMP - 1"=10'



NE CORNER RAMP - 1"=10'



EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9570	5 SF	SHEET ALUMINIUM GROUND MOUNTED SIGN
		1 EA - R4-7 (24 IN. X 30 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2001	22 CY	CLASS 2 EXCAVATION
2002	1 CY	TEST PIT EXCAVATION
5003	670 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	660 LF	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	130 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	850 SF	5 INCH CONCRETE SIDEWALK
6003	75 SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8005	1 EA	ADJUST HANDHOLE TO GRADE WITH NEW FRAME AND COVER
8024	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8030	25 LF	1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT CONDUIT
8039	60 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
8040	60 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8041	16 LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
8042	5 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8044	120 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8054	360 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
	4 EA	X-FLO IN GROUND CURBSIDE PEDESTRIAN DETECTOR

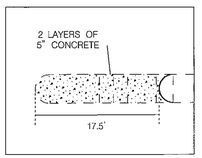
EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

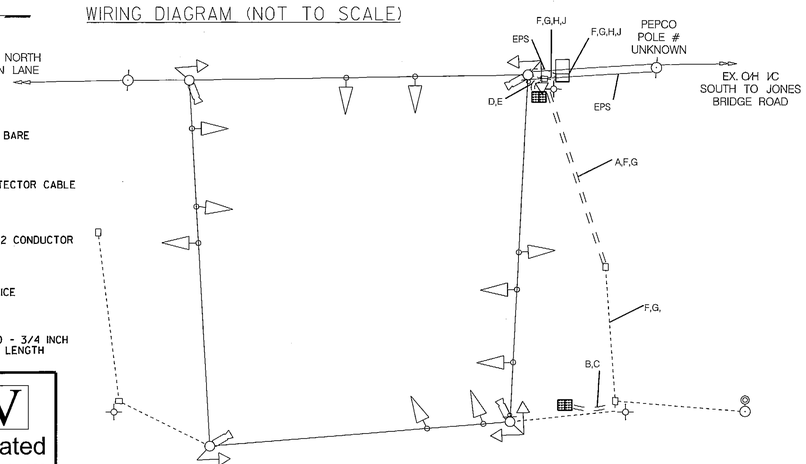
ITEM NO	QUANTITY	DESCRIPTION
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR		

TOD NO: XX439-05
SHA NO: MO242B53
MD 355 @ S. Drive/Southwood Rd

SOUTH LEG MEDIAN CROSSING - 1"=10'



WIRING DIAGRAM (NOT TO SCALE)



A — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
B C D E — X-FLO IN GROUND DETECTOR CABLE
F G H J — ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
EPS — EXISTING POWER SERVICE
EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

PHASE CHART

PHASE CHART	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	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	R Y G						
PHASE 1 & 5	G→R	G→R	R	G→R	G→R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 1 & 5 CHANGE TO PHASE 1 & 6, 2 & 5 OR PHASE 2 & 6																
PHASE 1 & 6	G→G	G→G	G	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 1 CHANGE	Y→G	Y→G	G	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW
PHASE 2 & 5	R	R	R	G→G	G→G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 5 CHANGE	R	R	R	Y→G	Y→G	G	R	R	R	R	WK	DW	DW	WK	DW	DW
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
PHASE 2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 & 8 ALT.	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW
PHASE 4 & 8 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (ROCKVILLE PIKE) AT
SOUTH DRIVE /SOUTHWOOD ROAD
BETHESDA, MARYLAND

GENERAL INFORMATION SHEET

SCALE 1" = 20' ADVERTISED DATE 012012 CONTRACT NO. XX4395185

DESIGNED BY KXT
DRAWN BY KXT
CHECKED BY MTS
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15035502.73
TIMS NO. L272
TOD NO.

TS NO. 4428C | DRAWING SG-02 OF 02 | SHEET NO. 02 OF 02

STV
STV Incorporated
7125 Ambassador Road, Suite 200
Baltimore, MD 21244
www.stvinc.com

BY: $USERNAME$

BORDER REV: DATE: MOrsch 12/20/07

PLOTTED: $DATETIME$
FILE: $FILE$

DRILL HOLES
DRILL HOLES
DRILL HOLES