PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC SIGNAL AT MD 193 (UNIVERSITY BOULEVARD) AND MD 320 (PINEY BRANCH ROAD) IN MONTGOMERY COUNTY, DUE TO THE GEOMETRIC IMPROVEMENTS AT THE INTERSECTION. MD 320 WILL BE WIDENED ALONG THE NORTHWEST CORNER OF THE INTERSECTION TO PROVIDE A RIGHT-TURN LANE IN THE SOUTHBOUND DIRECTION. IN ADDITION, ALL CHANNELIZATION ISLANDS WILL BE REMOVED AND ALL CORNER RADAII WILL BE REDUCED. THIS MODIFICATION PROVIDES TEMPORARY PEDESTRIAN SIGNAL HEADS TO CROSS ALL LEGS. THE EXISTING TRAFFIC SIGNAL HEADS AND VIDEO DETECTION WILL REMAIN. MD 193 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA EIGHT-PHASE, FULL-TRAFFIC ACTUATED MODE WITH EXCLUSIVE LEFT TURN PHASING FOR THE EAST-WEST APPROACHES AND EXCLUSIVE/PERMISSIVE PHASING FOR THE NORTH-SOUTH APPROACHES. THE EXISTING CONCURRENT MAINLINE PEDESTRIAN PHASE WILL REMAIN AND A CONCURRENT SIDE STREET PEDESTRIAN PHASE IS PROPOSED. THE EXISTING VIDEO DETECTION CAMERAS WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET WILL REMAIN.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Jeff Wentz
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

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

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7652

The Power Company Representative is:
Potomac Electric Power Company
4061 Powder Mill Road, Suite 600
Calverton, Maryland 20705
Phone: 301-931-2880

Mr. Kamal Hamud
Montgomery County Department
of Public Works
Phone: 240-777-8761

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION

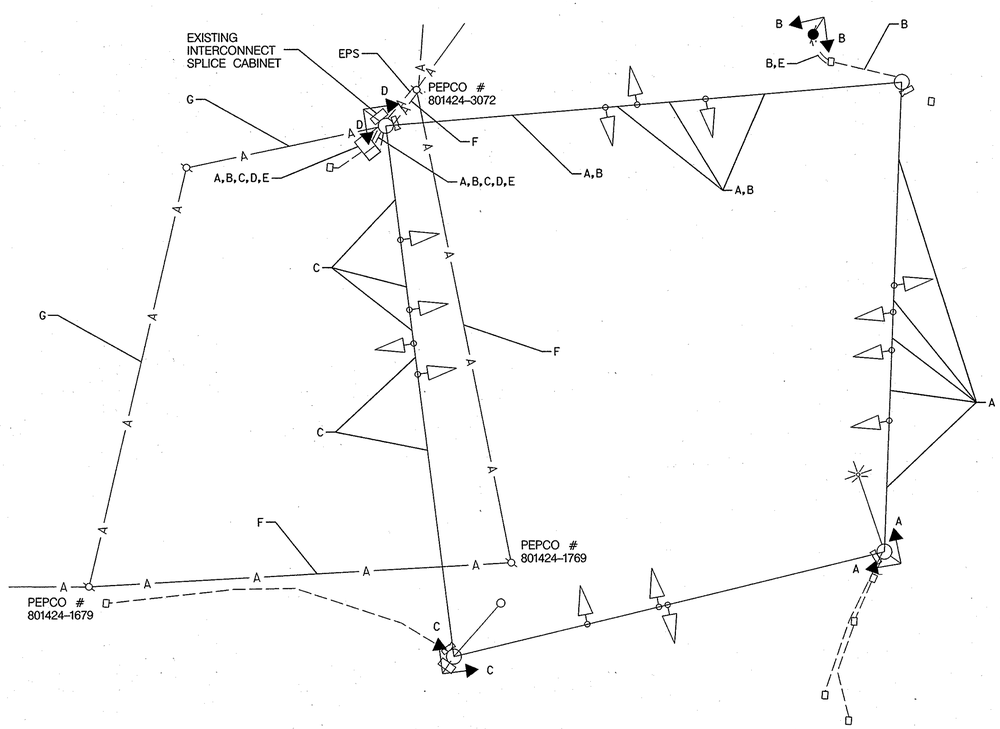
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	1 CY	TEST PIT EXCAVATION
585412	1000 LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585424	190 LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585462	2100 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
800000	1 EA	CLASS II WOOD POLE - 40 FOOT
800000	1 EA	3 INCH PVC CONDUIT BEND IN EXISTING BASE MOUNTED CABINET
800000	1 LS	REMOVE AND DISPOSE OF TRAFFIC SIGNAL EQUIPMENT
800000	300 LF	PULL & RE-ROUTE 12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (OVERHEAD)
802501	20 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805135	15 LF	3 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
833060	10 LF	3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER
860278	8 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION POLE MOUNT
861107	820 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



A B C D — ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

E — NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

F — EXISTING INTERCONNECT CABLE FROM BUCKINGHAM DRIVE/WAYNE AVENUE TO MD 320 SPLICE CABINET

G — REROUTED INTERCONNECT CABLE FROM BUCKINGHAM DRIVE/WAYNE AVENUE TO MD 320 SPLICE CABINET

EPS — EXISTING OVERHEAD POWER SERVICE

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~~	R	R	~~G~~	~~G~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 1 & 6, 2 & 5, OR 2 & 6														DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 & 6	~~G~~	~~G~~	G	G	~~R~~	~~R~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 1 CHANGE	~~Y~~	~~Y~~	G	G	~~R~~	~~R~~	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 5	~~R~~	~~R~~	R	R	~~G~~	~~G~~	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 5 CHANGE	~~R~~	~~R~~	R	R	~~Y~~	~~Y~~	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 & 6	~~R~~	~~R~~	G	G	~~R~~	~~R~~	G	G	R	R	R	R	R	R	W	W	W	W	DW	DW	DW	DW
PHASE 2 & 6 PED CLEARANCE	~~R~~	~~R~~	G	G	~~R~~	~~R~~	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
PHASE 2 & 6 CHANGE	~~R~~	~~R~~	Y	Y	~~R~~	~~R~~	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	~~G~~ / R	~~G~~ / R	R	~~G~~ / R	~~G~~ / R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 7 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 3 & 8, 4 & 7, OR 4 & 8														DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 & 8	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	~~G~~ / G	~~G~~ / G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3 CHANGE	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	~~Y~~ / G	~~Y~~ / G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 7	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	R	R	R	~~G~~ / G	~~G~~ / G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 7 CHANGE	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	R	R	R	~~Y~~ / G	~~Y~~ / G	G	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 & 8	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	G	G	G	G	G	G	DW	DW	DW	DW	W	W	W	W
PHASE 4 & 8 PED CLEARANCE	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	G	G	G	G	G	G	DW	DW	DW	DW	FL/DW	FL/DW	FL/DW	FL/DW
PHASE 4 & 8 CHANGE	~~R~~	~~R~~	R	R	~~R~~	~~R~~	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	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	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

TEMPORARY TRAFFIC SIGNAL FOR MOT

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 193 (UNIVERSITY BOULEVARD) AT MD 320 (PINEY BRANCH ROAD)

GENERAL INFORMATION

SCALE NONE DATE APRIL 2007 CONTRACT NO. MO3945187

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

COUNTY MONTGOMERY
LOGMILE 15019306.15
T.I.M.S. NO. H325
TOD NO.

DRAWING NO. TS-3661D GI OF

SHEET NO. OF

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

BY: SHARPSB

PLOTTED: THURSDAY, APRIL 19, 2007 AT 04:55 PM
FILE: I:\PROJECTS\0312513\0312513_0004\DRAWINGS\TRA\TRAFFIC\TEMPORARY SIGNAL\PSG-P002-M193.DGN