

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 201 (KENILWORTH AVE) AT PAINT BRANCH PKWY/ GOOD LUCK ROAD IN PRINCE GEORGE'S COUNTY.

THE MEDIAN IS BEING CUT BACK TO ALLOW FOR A THIRD SOUTHBOUND THRU LANE. PEDESTRIAN CROSSINGS ARE BEING UPDATED TO ADA SPECIFICATIONS. THE SIGNAL POLE IN THE SOUTHEAST QUADRANT HAS BEEN DESIGNED FOR THE FUTURE NORTHBOUND WIDENING.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A FULLY ACTUATED MODE USING 8 NEMA PHASES. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR THE NORTH AND SOUTHBOUND MOVEMENTS OF MD 201. THE MD 201 THROUGH MOVEMENTS OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE WEST LEG OF THE INTERSECTION. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR THE EAST AND WESTBOUND MOVEMENTS OF PAINT BRANCH PKWY/ GOOD LUCK RD. THE PAINT BRANCH PKWY/ GOOD LUCK RD THROUGH MOVEMENTS OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE SOUTH LEG OF THE INTERSECTION.

SPECIAL NOTES

- THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MS. FELICIA MURPHY, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 513-7404
MR. DUANE BERNARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (301) 513-7341
MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 615-7304
MR. VICTOR GRAFTON, UTILITY ENGINEER
PHONE: (301) 513-7350
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

POWER COMPANY REPRESENTATIVE IS:

PEPCO - RICHARD CHILCOAT
FORESTVILLE SERVICE CENTER
8300 OLD MARLBORO PIKE
FORESTVILLE, MD 20772
(301) 967-5805
WMS# 3329404

- APS WILL FUNCTION AS FOLLOWS:
FOR MD 201 (KENILWORTH AVE)

- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS KENILWORTH OF PAINT BRANCH, WAIT"
- WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.
- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS KENILWORTH OF GOOD LUCK, WAIT"
- WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

FOR PAINTBRANCH PKWY

- WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS PAINTBRANCH OF KENILWORTH, WAIT"
- WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST

- EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION	QUANTITY
LUMP SUM	LS	MAINTENANCE OF TRAFFIC	
LUMP SUM	LS	MOBILIZATION	
4	EA	10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE	
1	EA	27 FT. STEEL MAST ARM POLE WITH 60 FT. MAST ARM	
3	EA	27 FT. STEEL MAST ARM POLE WITH 70 FT. MAST ARM	
2	EA	20 FT. LUMINARIES ARM	
2	EA	250W HPS LAMP AND LUMINARIES	
1	EA	STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA 5 CABINET, TERRA VIDEO DETECTION INTERFACE, TELEMETRY INTERFACE EQUIPMENT, AND FOUR-CHANNEL LOOP DETECTOR AMPLIFIERS [Note: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO THE S.H.A. SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650] TO ARRANGE DELIVERY AND TESTING.	
6	EA	TERRA VIDEO DETECTOR CAMERA	
1430	LF	TERRA VIDEO DETECTOR CAMERA CABLE (NO. 18 A.W.G.)	
3	EA	NON-INVASIVE PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE	
4	EA	AUDIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH PUSHBUTTON SIGN	
1	EA	APS 2-WIRE CENTRAL CONTROL UNIT	
8	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST	
12	EA	12 IN. 3-SECTION LED SIGNAL HEAD (RA, YA, GA) - MAST	
4	EA	16 IN. 1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - POST TOP	
10	EA	30 IN. X 36 IN. R3-5 REGULATORY SIGN - MAST ARM (8 left, 2 right)	
2	EA	16 IN. X VAR. D-3(1) DUAL FACED SIGN - MAST ARM	
1	EA	30 IN. X 51 IN. SHIELD ASSEMBLY SIGN - GROUND MOUNT	45
1	EA	48 IN. X 75 IN. SHIELD ASSEMBLY SIGN - POLE MOUNT	575
30	LF	4 IN. X 6 IN. WOOD SIGN SUPPORTS	80
6	CY	TEST PIT EXCAVATION	40
10	EA	HANDHOLE	115
75	LF	1-CONDUCTOR CABLE (NO. 4 AWG)	535
620	LF	2-CONDUCTOR TRAY CABLE (NO. 12 AWG)	24.05
460	LF	2-CONDUCTOR CABLE (NO. 14 AWG)	8
1650	LF	5-CONDUCTOR CABLE (NO. 14 AWG)	1
2150	LF	7-CONDUCTOR CABLE (NO. 14 AWG)	1
610	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)	510

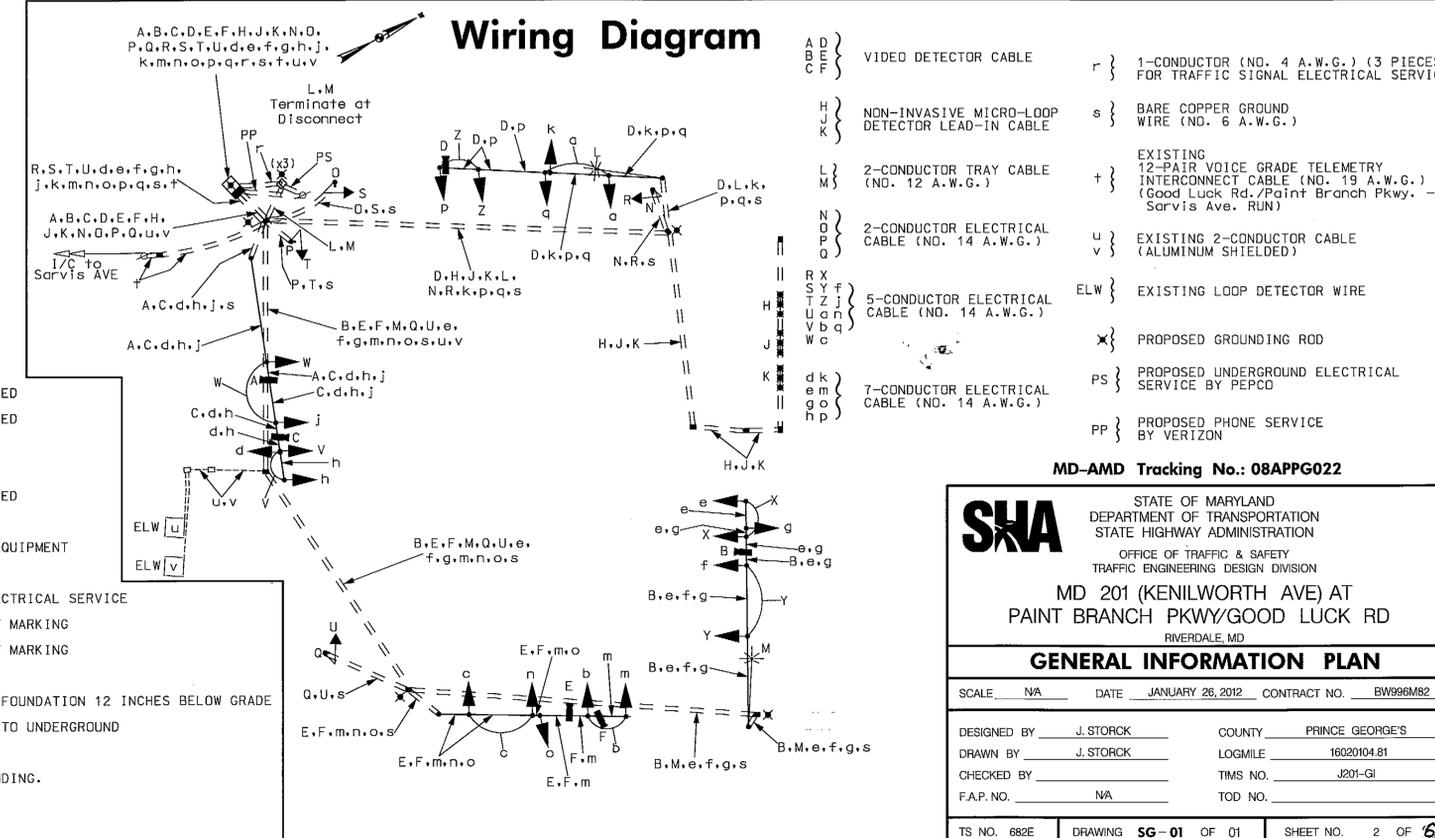
GENERAL NOTES CONTINUED

- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES 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 EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. X 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 & FIG 4E-2 AND THE NCHRP PUBLICATION. "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERING APS EQUIPMENT FOR PROGRAMING TO MD-SHA SIGNAL SHOP.
- ALL UNUSED CABLE SHALL BE REMOVED.
- PEDESTRIAN ACCESS AT THE INTERSECTION MUST BE MAINTAINED AT ALL TIME.
- THE CONTRACTOR SHALL CONTACT MR. DAVE BRLANSKY, TRANSIT SHELTER & STOP COORDINATOR FOR WMATA AT 202-962-1937, ONE WEEK IN ADVANCE OF PROCEEDING WITH THIS PROJECT.
- THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE DROP INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET NUMBER, ZIP CODE, AND TELEPHONE NUMBER.

Phase Chart

	1-3	4	5	6-8	9	10	11-13	14	15	16-18	19	20	21,22	23,24
PHASE 1 AND 5	←G-	R	R	←G-	R	R	←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	←R-	R	R	←R-	R	R	←R-	R	R	DW	DW
1 CHANGE	←Y-	G	G	←R-	R	R	←R-	R	R	←R-	R	R	DW	DW
PHASE 2 AND 5	←R-	R	R	←G-	G	G	←R-	R	R	←R-	R	R	DW	DW
5 CHANGE	←R-	R	R	←Y-	G	G	←R-	R	R	←R-	R	R	DW	DW
PHASE 2 AND 6	←R-	G	G	←R-	G	G	←R-	R	R	←R-	R	R	WK	DW
PED CLEARANCE	←R-	G	G	←R-	G	G	←R-	R	R	←R-	R	R	FL/DW	DW
2 AND 6 CHANGE	←R-	Y	Y	←R-	Y	Y	←R-	R	R	←R-	R	R	FL/DW	DW
PHASE 3 AND 7	←R-	R	R	←R-	R	R	←G-	R	R	←G-	R	R	DW	DW
3 AND 7 CHANGE TO 3 AND 8, 4 AND 7, OR 4 AND 8														
PHASE 4 AND 7	←R-	R	R	←R-	R	R	←G-	G	G	←R-	R	R	DW	DW
7 CHANGE	←R-	R	R	←R-	R	R	←Y-	G	G	←R-	R	R	DW	DW
PHASE 3 AND 8	←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	←Y-	G	G	DW	DW
PHASE 4 AND 8	←R-	R	R	←R-	R	R	←R-	G	G	←R-	G	G	DW	DW
4 AND 8 CHANGE	←R-	R	R	←R-	R	R	←R-	Y	Y	←R-	Y	Y	DW	DW
PHASE ALT 4 AND 8	←R-	R	R	←R-	R	R	←R-	G	G	←R-	G	G	DW	WK
PED CLEARANCE	←R-	R	R	←R-	R	R	←R-	G	G	←R-	G	G	DW	FL/DW
ALT 4 AND 8 CHANGE	←R-	R	R	←R-	R	R	←R-	Y	Y	←R-	Y	Y	DW	DW
FLASHING OPERATION	FL/←R-	FL/Y	FL/Y	FL/←R-	FL/Y	FL/Y	FL/←R-	FL/R	FL/R	FL/←R-	FL/R	FL/R	DARK	DARK

Wiring Diagram



EQUIPMENT LIST Cont.

QUANTITY	UNITS	DESCRIPTION
2	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
3	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
3	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - BORED
3	LF	3 IN. RISER
4	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
4	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - BORED
1	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
1	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
1	EA	CONTROL & DISTRIBUTION EQUIPMENT FOR ELECTRICAL SERVICE
1	LF	12 IN. WIDE WHITE THERMOPLASTIC PAVEMENT MARKING
1	LF	24 IN. WIDE WHITE THERMOPLASTIC PAVEMENT MARKING
2	EA	RELOCATE EXISTING SIGN - POLE MOUNT
7	EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
200	LF	RELOCATE EXISTING OVERHEAD INTERCONNECT TO UNDERGROUND
1	LS	REMOVE EXISTING SIGNAL EQUIPMENT.
50	LF	REMOVE EXISTING PAVEMENT MARKING BY GRINDING.

EQUIPMENT LIST Cont.

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

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

MD 201 (KENILWORTH AVE) AT
PAINT BRANCH PKWY/GOOD LUCK RD
RIVERDALE, MD

GENERAL INFORMATION PLAN

SCALE: NA DATE: JANUARY 26, 2012 CONTRACT NO.: BW996M82

DESIGNED BY: J. STORCK COUNTY: PRINCE GEORGE'S
DRAWN BY: J. STORCK LOGMILE: 16020104.81
CHECKED BY: TMS NO.: J201-GI
F.A.P. NO.: NA TOD NO.:

TS NO. 682E DRAWING **SG-01** OF 01 SHEET NO. 2 OF 6

PLOTTED: Thursday, January 26, 2012 AT 03:24 PM
FILE: F:\2004\2004-0201\0201\TSD\MD 201 @ PAINT BRANCH-GOOD LUCK\PSG-N002_MD201@Paintbranch.dgn