

PROJECT DESCRIPTION

I. GENERAL:

THIS SIGNAL RECONSTRUCTION IS PART OF THE PROJECT TO WIDEN MD 175 (ANNAPOLIS ROAD) AT ENTRANCE OF FORT MEADE MIDDLE SCHOOL AT THE EXISTING SIGNAL OF MD 175 (ANNAPOLIS ROAD) AT 26TH STREET/ DISNEY ROAD IN ANNE ARUNDEL COUNTY. THE PROJECT INTERSECTION SHALL BE CONVERTED FROM PEDESTRIAN SIGNAL HEADS TO COUNTDOWN PEDESTRIAN SIGNAL HEADS, AND THE EXISTING SIGNAL DETECTION SHALL BE UPDATED TO VIDEO DETECTION.

MD 175 (ANNAPOLIS ROAD) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE MD 175 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT-TURN PHASES SHALL BE PROVIDED FOR THE EASTBOUND AND WESTBOUND APPROACHES OF MD 175. PEDESTRIAN PHASE WITH COUNT-DOWN PEDESTRIAN SIGNALS AND AUDIBLE/TACTILE PUSHBUTTON STATION SHALL BE PROVIDED FOR ALL LEGS OF THE INTERSECTION. 26TH STREET/DISNEY ROAD SHALL RUN A SPLIT-PHASED OPERATION.

AUDIBLE PUSHBUTTON FUNCTION IS AS FOLLOWS:

- When the pedestrian locates and presses the pushbutton for an extended time, the pushbutton unit will announce the following message:  
 EAST LEG: "Wait to cross Annapolis at Disney and 26th, Wait."  
 WEST LEG: "Wait to cross Annapolis at Disney and 26th, Wait."  
 NORTH LEG: "Wait to cross Disney at Annapolis, Wait."  
 SOUTH LEG: "Wait to cross 26th at Annapolis, Wait."
- When the "WALK" phase begins, the pushbutton unit will provide a rapid tick, which will last for the duration of the "WALK" phase.

PROJECT CONTACTS:

- MS. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
 PHONE: (410) 841-1019
- MR. JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
 PHONE: (410) 841-1031
- MR. JOHN S. MAYS, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
 PHONE: (410) 841-1013
- MR. MIKE HUBER, UTILITY ENGINEER  
 PHONE: (410) 841-1039
- MR. GUS PAYNE, CONSTRUCTION INSPECTION  
 PHONE: (443) 572-5234
- MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP  
 PHONE: (410) 787-7652
- MR. SONNY BAILEY, CHIEF - SIGN SHOP  
 PHONE: (410) 787-7676
- MR. AVIJIT MAJI, DIVISION CHIEF - TRAFFIC OPERATIONS, OOTS**  
**PHONE: (410) 787-7630**
- THE POWER COMPANY REPRESENTATIVE:  
 BALTIMORE GAS AND ELECTRIC (BGE)  
 MS. JACQUELINE SHULTZ  
 (410) 470-8445

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE	QUANTITY	DESCRIPTION
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EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION, AND THEIR QUANTITIES, HAVE BEEN SHOWN ON THE TRAFFIC SIGNAL MAINTENANCE OF TRAFFIC GENERAL INFORMATION SHEETS.

EQUIPMENT LIST 'B'

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

CATEGORY CODE	QUANTITY	DESCRIPTION
585621	1020 LF	12 INCH WHITE PREPORMED HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS.
585625	150 LF	24 INCH WHITE PREPORMED HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS.

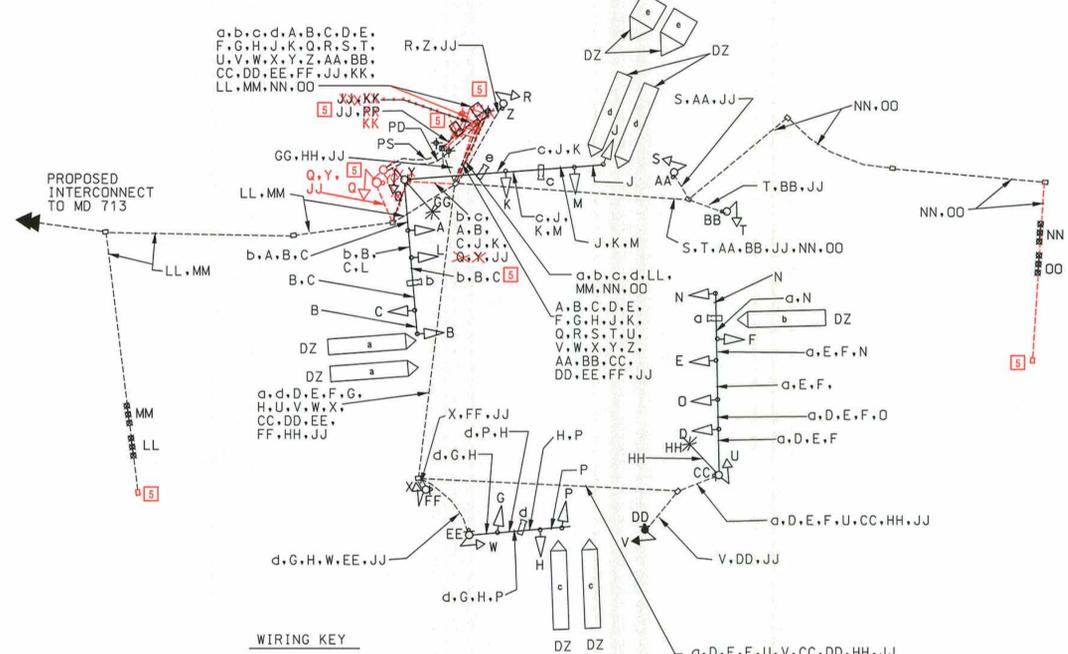
ADDITIONAL EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR OR BY THE ADMINISTRATION, AND THEIR QUANTITIES, HAVE BEEN SHOWN ON THE TRAFFIC SIGNAL MAINTENANCE OF TRAFFIC GENERAL INFORMATION SHEET.

EQUIPMENT LIST 'C'

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

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Phase 1 & 5	←G-	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	DW							
1 & 5 Change	←Y-	←Y-	←Y-	R	R	←Y-	←Y-	R	R	R	R	R	R	R	R	DW							
Phase 2 & 6	←R-	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	WK							
Ped. Clear	←R-	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	FL/DW							
2 & 6 Change	←R-	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	DW							
Phase 3	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←G/G	←G/G	G	R	R	R	DW							
3 Change	←R-	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW							
Phase 4	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	←G/G	←G/G	G	DW							
4 Change	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	Y	Y	Y	Y	DW							
Phase 3 ALT	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←G/G	←G/G	G	R	R	R	DW	DW	DW	DW	WK	WK	DW	DW
Ped. Clear	←R-	←R-	←R-	R	R	←R-	←R-	R	R	←G/G	←G/G	G	R	R	R	DW	DW	DW	DW	FL/DW	FL/DW	DW	DW
3 ALT Change	←R-	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW							
Phase 4 ALT	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	←G/G	←G/G	G	DW	DW	DW	DW	DW	DW	WK	WK
Ped. Clear	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	R	←G/G	←G/G	G	DW	DW	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT Change	←R-	←R-	←R-	R	R	←R-	←R-	R	R	R	R	Y	Y	Y	Y	DW							
Flashing Operation	FL/RA	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							



WIRING KEY

a,b,c,d	- 3 CONDUCTOR NO. 18 AWG VIDEO CABLE
A,B,C,D,E,F,G,H,J,K	- 7 CONDUCTOR NO. 14 AWG ELEC. CABLE
L,M,N,O,P	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE JUMPER
Q,R,S,T,U,V,W,X	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE
Y,Z,AA,BB,CC,DD,EE,FF	- 2 CONDUCTOR NO. 14 AWG ELEC. CABLE
GG,HH	- 2 CONDUCTOR NO. 12 AWG ELEC. CABLE TRAY
JJ	- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
KK	- 1 CONDUCTOR NO. 8 AWG-THHN/THWN ELEC. CABLE
LL,MM,NN,OO	- NON-INVASIVE DETECTOR W/ 500' LEAD-IN
PD	- PHONE DROP
PS	- SERVICE FEED
⚡	- GROUND ROD (3/4" DIA. x 10' LENGTH)

**REDLINE REVISION NO. 5**  
 MD 175 AT DISNEY ROAD; REVISED POLE LOCATIONS IN THE NW QUADRANT  
 [Signature]  
 11/28/2013  
 1000 TEAM LEADER APPROVAL DATE

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 MD 175 (ANNAPOLIS ROAD) AT  
 26TH STREET/DISNEY ROAD  
 FORT MEADE, MD

**CENTURY**  
 ENGINEERING  
 CONSULTING ENGINEERS - PLANNERS  
 10710 GILROY ROAD  
 HUNT VALLEY, MD 21031

REVISIONS	SCALE	DESIGNED BY	COUNTY
1. REDLINE NO. 5 INSTALL NEW PEDESTAL POLE IN THE NW QUADRANT, RELOCATE SIGNAL POLE	1" = 20' NONE	END	ANNE ARUNDEL
2. BRAC RECONSTRUCT TRAFFIC SIGNAL SHA #. AA5805370 TIMS NO. J-969	ADVERTISED DATE OCTOBER 2010 CONTRACT NO. AA5805370	ENB	LOGMILE 02017507.10
3. 1/24/97 ASBUILT SHA #. BW860802512		MR /NR	TIMS NO. J-969
		F.A.P. NO. ACPLHD-STP-TIP-3617(11)E	TOD NO.
REVISION 'D' 23299.36; 27257.25		TS NO. 1959D-GI	DRAWING <b>SG - 04</b> OF 5
			SHEET NO. 150 OF 192

BY: robinson