PROJECT DESCRIPTION (MOT PHASE 2B STAGE 2)

I. GENERAL:

THIS PARTIAL SIGNAL RECONSTRUCTION AT MD 185 (CONNECTICUT AVE) AND JONES BRIDGE ROAD IS A PART OF THE BETHESDA BRAC INTERSECTION IMPROVEMENTS IN MONTGOMERY COUNTY. IMPROVEMENTS WILL INCLUDE PROVIDING ADDITIONAL LANES ON MD 185, UPGRADING TO COUNTDOWN PEDESTRIAN SIGNAL HEADS, UPDATING THE EXISTING TRAFFIC SIGNAL HEADS TO LED, AND PROVIDING SIGNAL ACTUATION THROUGH VIDEO DETECTION.

DURING THIS PHASE/STAGE OF THE RECONSTRUCTION, REMOVAL OF EXISTING PEDESTRIAN SIGNAL EQUIPMENT FROM THE SOUTHEAST CORNER OF THE INTERSECTION WILL BE UPDATED WITH LED PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS, AND SIGNS.

MD 185 (CONNECTICUT AVENUE) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION:

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE, WITH THE MD 185 APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE LEFT-TURN PHASES SHALL BE PROVIDED FOR LEFT-TURNS FROM EASTBOUND JONES BRIDGE ROAD TO NORTHBOUND MD 185, AND FROM SOUTHBOUND KENSINGTON PARKWAY TO SOUTHBOUND MD 185. A PEDESTRIAN PHASE WITH COUNTDOWN PEDESTRIAN SIGNAL AND AUDIBLE/TACTILE PUSHBUTTON STATION SHALL BE PROVIDED FOR WEST AND NORTH LEG CROSSINGS OF THE INTERSECTION. THESE PEDESTRIAN MOVEMENTS WILL BE DISALLOWED DURING PHASE 2B CONSTRUCTION; HOWEVER, PEDESTRIAN SIGNALS FOR THE ENTIRE INTERSECTION WILL BE ACTIVATED AFTER THE COMPLETON OF ALL ROADWORK ACTIVITY IN THE PROJECT AREA.

III. SPECIAL NOTES:

1. THE APS PUSHBUTTONS AND CENTRAL CONTROL UNITS SHALL BE DELIVERED TO MR. ROBERT RICKETTS AT THE MONTGOMERY COUNTY TECHNICAL CENTER, 1283 SEVEN LOCKS ROAD, ROCKVILLE, MD 20854 FOR WIRING AND TESTING AT LEAST THREE (3) WEEKS PRIOR TO THE BEGINNING OF WORK.

2. NOTIFY MR ROBERT RICKETTS (301-279-1975), MR. MIKE KINNEY (240-777-8760) AND MR. KAMAL HAMUD (240-777-8761) AT LEAST 72 HOURS PRIOR TO THE BEGINNING OF WORK.

PROJECT CONTACTS:

1. THE FOLLOWING ARE THE CONTACT PERSONS FOR THIS PROJECT:

   MS. CEDRIC WARD, ASSISTANT DISTRICT ENGINEER - TRAFFIC
   PHONE: (301) 513-7358

   MR. DUANE BERNARD, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
   PHONE: (301) 513-7385

   MR. VERNON STINNETT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
   PHONE: (301) 513-7304

   MR. VICTOR GRAFTON, UTILITY ENGINEER
   PHONE: (301) 513-7350

   MR. DAN MANTYK, CHIEF - TRAFFIC CONTROL DEVICE INSPECTION
   PHONE: (443) 572-5228

   MR. RICHARD DAFF, CHIEF - TRAFFIC OPERATIONS DIVISION
   PHONE: (410) 787- 7630

   MR. EDWARD RODENHIZER, CHIEF - SIGNAL SHOP
   PHONE: (410) 787- 7652

   MR. SONNY BAILEY, CHIEF - SIGN SHOP
   PHONE: (410) 787-7676

   MR. ROBERT RICKETTS - MONTGOMERY COUNTY
   PHONE: (301) 279-1975

   MR. KAMAL HAMUD - MONTGOMERY COUNTY
   PHONE: (240) 777-8761

   THE POWER COMPANY REPRESENTATIVE

   MR. PAUL WILSON
   PEPCO-DISTRIBUTION ENGINEERING
   201 W. GUDE DRIVE
   ROCKVILLE, MD 20850
   (301) 548-4332

2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE STANDARD PLATES FOR TRAFFIC CONTROL FROM SECTION MD 104.00 OF THE SHA BOOK OF STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES.

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

REVISION 'C' 23299.62

PHASE 2B - STAGE 2

EQUIPMENT LIST 'A'

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION AND INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	2 SF	FLAT SHEET ALUMINUM SIGNS CONSISTING OF:
	1 EA	R10-3(1) "PUSH BUTTON TO CROSS JONES BRIDGE ROAD" (9"X15") POLE-MOUNTED
	1 EA	R10-3(1) "PUSH BUTTON TO CROSS CONNECTICUT AVENUE" (9"X15") POLE-MOUNTED

EQUIPMENT LIST 'B'

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CATEGORY CODE	QUANTITY	DESCRIPTION
800000	1340 LF	PULL BACK & REROUTE EXISTING CABLE
800000	2 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON & SIGN
800000	2 EA	16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
801004	1 CY	CONCRETE FOR SIGNAL FOUNDATIONS
802501	250 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	20 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805135	50 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805140	40 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED
805155	65 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
811001	1 EA	FURNISH AND INSTALL ELECTRICAL SIGN
813015	2 SF	INSTALL OVERHEAD SIGN
818004	2 EA	10' BREAKAWAY PEDESTAL POLE
837001	1 EA	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH
861105	230 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	250 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING KEY

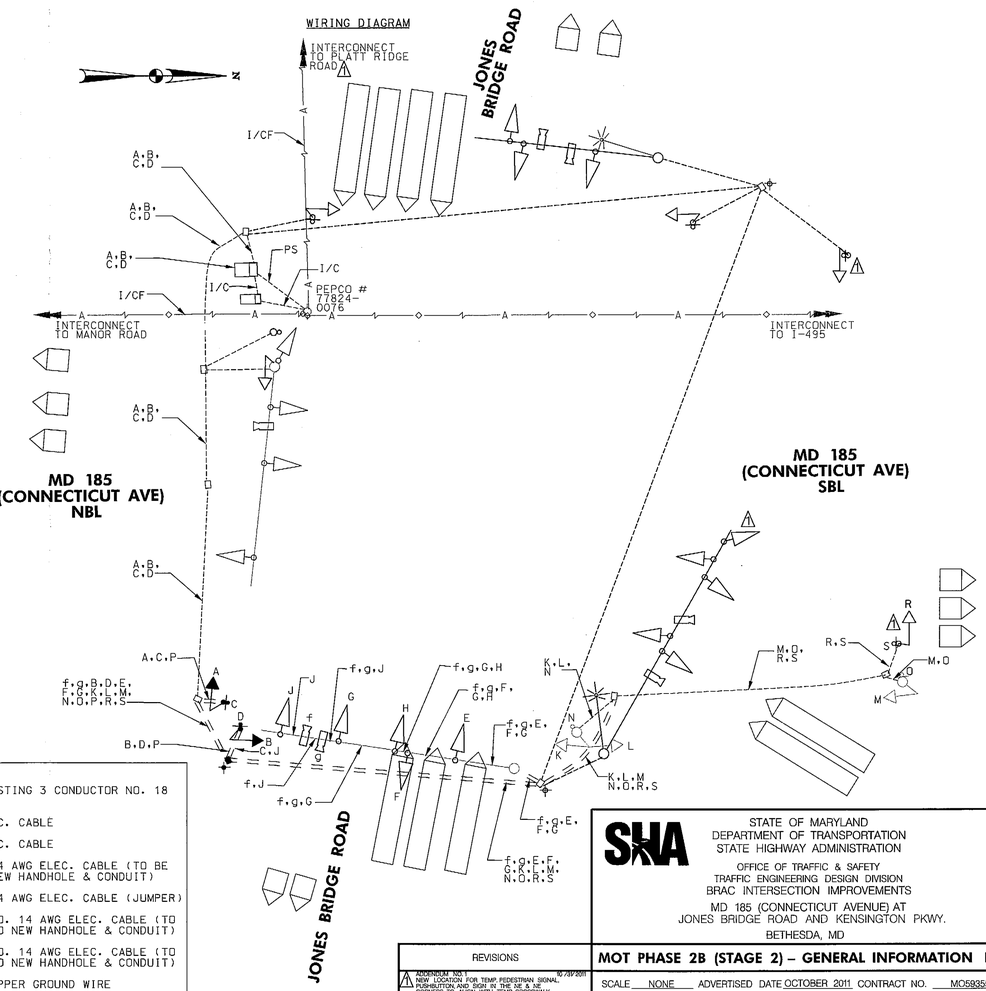
f,g	- PULL BACK AND RE-ROUTE EXISTING 3 CONDUCTOR NO. 18 VIDEO CABLE
A,B	- 5 CONDUCTOR NO. 14 AWG ELEC. CABLE
C,D	- 2 CONDUCTOR NO. 14 AWG ELEC. CABLE
E,F,G	- EXISTING 7 CONDUCTOR NO. 14 AWG ELEC. CABLE (TO BE PULLED BACK/RE-ROUTED TO NEW HANDHOLE & CONDUIT)
H,J	- EXISTING 5 CONDUCTOR NO. 14 AWG ELEC. CABLE (JUMPER)
K,L,M,R	- USE EXISTING 5 CONDUCTOR NO. 14 AWG ELEC. CABLE (TO BE PULLED BACK/RE-ROUTED TO NEW HANDHOLE & CONDUIT)
N,O,S	- USE EXISTING 2 CONDUCTOR NO. 14 AWG ELEC. CABLE (TO BE PULLED BACK/RE-ROUTED TO NEW HANDHOLE & CONDUIT)
P	- NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
I/CF	- EXISTING INTERCONNECT CABLE AND FIBER OPTIC CABLE
I/C	- EXISTING INTERCONNECT CABLE
PS	- PROPOSED SERVICE FEED
⏚	- GROUND ROD (3/4" DIA.x 10' LENGTH)

NOTE:
PEDESTRIAN SIGNALS AND ASSOCIATED PUSHBUTTONS AND SIGNS FOR #18,#19,#24, AND #25 WILL BE BAGGED UNTIL THE END OF THIS STAGE OF PHASE 2B CONSTRUCTION. MAINTENANCE OF PEDESTRIAN TRAFFIC DURING CONSTRUCTION IS DETAILED ON THE PEDESTRIAN/TRANSIT MOT PLANS.

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	24	25	26	27
	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	RG YG	RG YG	RG YG	R Y G	R Y G	R Y G	R Y G	R Y G	R Y G	DW PB	DW PB	DW PB	DW PB	DW PB	DW PB	DW PB	DW PB	DW PB	DW PB
	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	16"	12"	12"	12"	16"	16"	16"	16"	16"	16"
Phase 1	R	R	R	R	R	R	G	G	◄R-	◄R-	◄R-	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
1 Change	R	R	R	R	R	R	Y	Y	◄R-	◄R-	◄R-	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Phase 2 & OL'A'	G	G	G	G	G	G	R	R	◄R-	◄R-	◄R-	R	R	R	R	R	R	WK	WK	WK	WK	WK	WK	DW	DW	DW	DW
Ped. Clear	G	G	G	G	G	G	R	R	◄R-	◄R-	◄R-	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	DW	DW
2 & OL'A' Change	Y	Y	Y	Y	Y	Y	R	R	◄R-	◄R-	◄R-	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Phase 3 & 8	R	R	R	R	R	R	R	R	◄G-	◄G-	◄G-	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
3 Change	R	R	R	R	R	R	R	R	◄Y-	◄Y-	◄Y-	G	G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Phase 4 & 8	R	R	R	R	R	R	R	R	◄R-	◄R-	◄R-	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
4 & 8 Change	R	R	R	R	R	R	R	R	◄R-	◄R-	◄R-	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Phase ALT 4	R	R	R	R	R	R	R	R	◄R-	◄R-	◄R-	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	WK	WK	DW	DW
Ped. Clear	R	R	R	R	R	R	R	R	◄R-	◄R-	◄R-	G	G	G	G	G	G	DW	DW	DW	DW	DW	DW	FL/DW	FL/DW	WK	WK
ALT 4 Change	R	R	R	R	R	R	R	R	◄R-	◄R-	◄R-	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW	FL/DW	FL/DW
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/RA	FL/RA	FL/RA	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
BRAC INTERSECTION IMPROVEMENTS
MD 185 (CONNECTICUT AVENUE) AT JONES BRIDGE ROAD AND KENSINGTON PKWY.
BETHESDA, MD

MOT PHASE 2B (STAGE 2) - GENERAL INFORMATION PLAN

REVISIONS
1 ADDENDUM NO. 1 — NEW LOCATION FOR TEMP. PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN IN THE SE & NE CORNERS TO ALIGN WITH TEMP. CROSSWALK — ENB — 10/31/2011

SCALE NONE	ADVERTISED DATE OCTOBER 2011	CONTRACT NO. MO5935570	
DESIGNED BY ENB		COUNTY MONTGOMERY	
DRAWN BY ENB		LOGMILE 15018502.22	
CHECKED BY MR /NR		TIMS NO.	
F.A.P. NO.		TOD NO.	
TS NO. 2649C	DRAWING SG-08.2 OF 12	SHEET NO. 108 OF 123	

PLOTTED: Wednesday, November 02, 2011 AT 11:47 AM
FILE: S:\2008\Transportation\27257-08 BRAC-MD185 @ Jones Bridge Rd\CADD\ACAD SheetSets\pSG-P008_MD185_JBR ph2B st2 GI.dgn

BY: bostic -