PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE NEW CONSTRUCTION OF A TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 166 (ROLLING ROAD) NB AT I-195 SOUTHWEST PARK AND RIDE IN BALTIMORE COUNTY, MARYLAND. MD 166 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 166 APPROACHES OPERATING CONCURRENTLY. EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE SOUTHBOUND MD 166 APPROACH.

CONTROLLER REQUIREMENTS

4 A NEW NEMA TYPE "S" BASE MOUNTED CABINET AND A FULL TRAFFIC ACTUATED EIGHT-PHASE ASC III CONTROLLER WITH ASSOCIATED EQUIPMENT WILL BE USED.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

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ASSISTANT DISTRICT ENGINEER - MAINTENANCE
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SUPERVISOR, SIGNAL SHOP
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ASSISTANT DISTRICT ENGINEER - UTILITY
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MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
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MR. EUGENE BAILEY
MANAGER, SIGN SHOP
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EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
4 900000	1	EA	CONTROLLER CABINET TYPE "S" WITH VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
4 900000	1	EA	ASC III CONTROLLER
963010	1	EA	FOUR CHANNEL TIME DELAY OUTPUT LOOP DETECTOR AMPLIFIER
973023	20	SF	SHEET ALUMINUM SIGNS
			- 1 EACH M1-5(4) (78"x36") - MAST ARM MOUNT

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

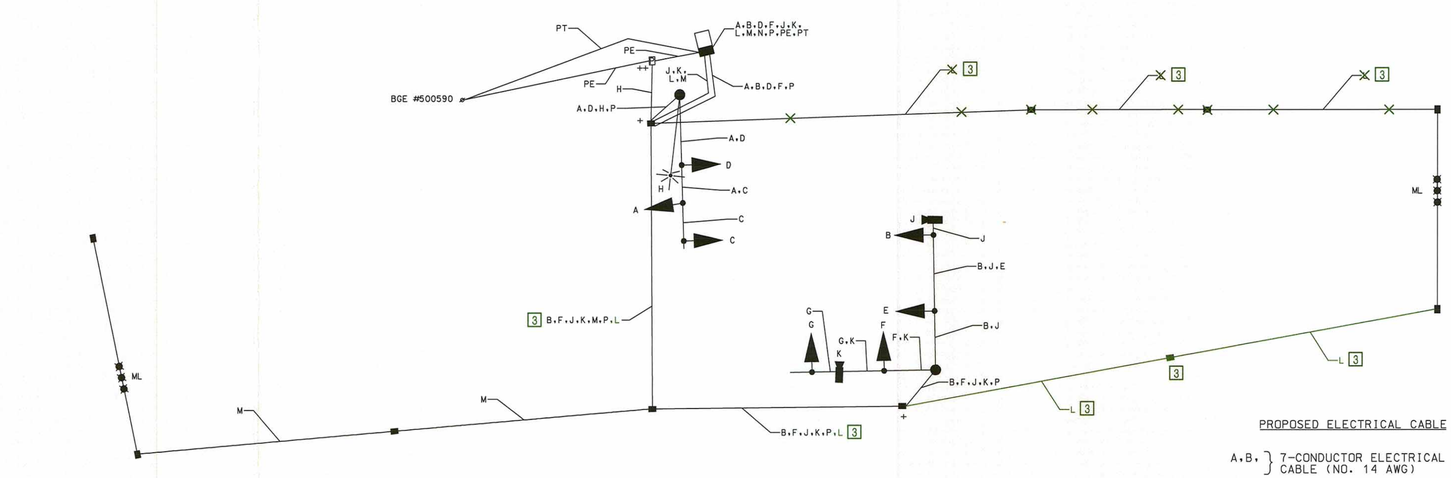
NONE.

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
203030	2	CY	TEST PIT EXCAVATION
585424	100	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	2	EA	VIDEO DETECTION CAMERA AND CABLE
801004	6	CY	CONCRETE FOR SIGNAL FOUNDATION
802501	300	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805115	100	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805118	3 ~~200~~ 100	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805125	50	LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805135	3 ~~800~~ 850	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805140	100	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805150	100	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED
807500	1	EA	EMBEDDED METERED SERVICE PEDESTAL
810010	250	LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
810605	2	EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	3 ~~10~~ 9	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	20	SF	INSTALL OVERHEAD SIGN
818021	1	EA	STEEL POLE WITH TWIN 50 FOOT MAST ARM
818030	1	EA	STEEL POLE WITH A SINGLE 38 FOOT MAST ARM
831010	1	EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
837001	4	EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	25	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861107	400	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
861108	400	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
861116	50	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
866104	1	EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
871202	1	EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

WIRING DIAGRAM



PROPOSED ELECTRICAL CABLE

A,B, } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

C,D,E, F,G } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

H } 2-CONDUCTOR ELECTRICAL TRAY CABLE (NO. 12 AWG)

J,K } VIDEO DETECTION LEAD-IN CABLE

L,M } MICROLOOP LEAD-IN CABLE

N } 3 1-CONDUCTOR ELECTRICAL CABLES (NO. 4 AWG)

P } STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

LEGEND

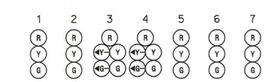
ML - MICROLOOP PROBE

PE - PROPOSED UNDERGROUND ELECTRICAL SERVICE

PT - PROPOSED UNDERGROUND TELPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

PHASE CHART



	1	2	3	4	5	6	7	
PHASE 2 + 5	R	R	G Y G	G Y G	G	R	R	
2 + 5 CHANGE	R	R	Y Y Y	Y Y Y	G	R	R	
PHASE 2 + 6	G	G	G	G	G	R	R	
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	
PHASE 4	R	R	R	R	R	G	G	
4 CHANGE	R	R	R	R	R	Y	Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

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BY: bshanover -

3 GREEN LINE NO. 3 08/02/12 SHEET REVISED

4 ADDENDUM NO. 4 02/03/12 SHEET REVISED

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

MD 166 (ROLLING ROAD) AT I-195 SOUTHWEST PARK AND RIDE

GENERAL INFORMATION SHEET

SCALE NONE DATE DECEMBER 13, 2011 CONTRACT NO. BA1365187

DESIGNED BY BSH
DRAWN BY CLY
CHECKED BY MAS
F.A.P. NO. SEE TITLE SHEET

COUNTY BALTIMORE
LOGMILE 15016600.64
T.I.M.S. NO. K682
T.O.D. NO. N/A

T.S. NO. 4816-GI SG-02 OF SG-02 SHEET NO. 24 OF 33

PLOTTED: Wednesday, August 01, 2012 AT 11:30 AM
FILE: I:\5137 - district 4\15 - md 166 at i-95 (final design)\design\engineering\planset\pSG-N001_MD166.dgn