

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF TREVANION ROAD AND ANTRIM BOULEVARD LOCATED IN CARROLL COUNTY. THE TEMPORARY TRAFFIC SIGNAL SHALL BE IN OPERATION DURING THE DURATION OF THE EASTBOUND MD 140 ROAD CLOSURE.

INTERSECTION OPERATION

THIS INTERSECTION SHALL OPERATE IN A NEMA 4-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EASTBOUND TREVANION ROAD APPROACH WILL OPERATE WITH EXCLUSIVE-PERMISSIVE PHASING FOR THE LEFT TURN MOVEMENT ONTO ANTRIM BLVD.

CONTROLLER REQUIREMENTS

A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH VIDEO DETECTION INTERFACE EQUIPMENT AND DETECTOR RACK SHALL BE HOUSED IN A NEMA SIZE 5 POLE MOUNTED CABINET.

CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER-TRAFFIC
PHONE: (301)624-8140
MS. ANDREA ABEND UTILITY ENGINEER
PHONE: (301)624-8115

MR. RAYMOND JOHNSON ASSISTANT DISTRICT ENGINEER-MAINTENANCE
PHONE: (301)624-8105

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410)787-7630
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS
PHONE: (410)787-7630

MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS
PHONE: (410)787-7650
MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS
PHONE: (410)787-7676

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT THE CONTACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND TELEPHONE NUMBER.

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
- ALL UNUSED CABLE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" 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 WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- WHEN DIRECTED BY THE ADMINISTRATION TO DO SO, THE CONTRACTOR SHALL COVER THE TRAFFIC SIGNAL HEADS AND TRAFFIC SIGNAL AHEAD SIGNS AND UNCOVER THE STOP SIGN AND STOP AHEAD SIGN. THIS WILL TAKE PLACE AT THE CONCLUSION OF THE EASTBOUND MD 140 CLOSURE.
- WHEN DIRECTED BY THE ADMINISTRATION TO DO SO, THE CONTRACTOR SHALL REMOVE ALL WOOD POLES, SPAN WIRE, SIGNAL HEADS, VIDEO DETECTION CAMERAS, LIGHTING BRACKET ARMS, TRAFFIC SIGNAL CABINET, CONTROLLER, PAVEMENT MARKING AND ALL ASSOCIATED EQUIPMENT. BACKFILL ALL REMAINING HOLES TO GRADE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
900000	VIDEO DETECTION INTERFACE EQUIPMENT	EA	1
971016	EIGHT PHASE (FULLY ACTUATED CONTROLLER AND CABINET POLE MOUNT	EA	1
973023	SHEET ALUMINUM SIGNS	SF	80

CONSISTING OF:

GROUND MOUNT
3 - W3-3 (36"x36") FY
3 - M4-7 (30"x15")
3 - FD PANEL (30"x15") FO
3 - D-3(2) (12"xVAR.) FY
1 - M1-5 (30"x24")
1 - M6-1 (21"x15")
1 - M3-2 (24"x12")
1 - M4-8 (24"x12") FO

SPAN MOUNT
1 - R10-12 (30"x36")

WIRING KEY

D	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	G, I, J	VIDEO DETECTION CABLE
A, B, C, E, F	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)	PF	1-CONDUCTOR ELECTRICAL CABLE (NO. 4 AWG)
H	2-CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO. 12 AWG)	Z	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
PD	OVERHEAD PHONE DROP BY VERIZON	⚡	GROUND ROD

EQUIPMENT LIST "B"

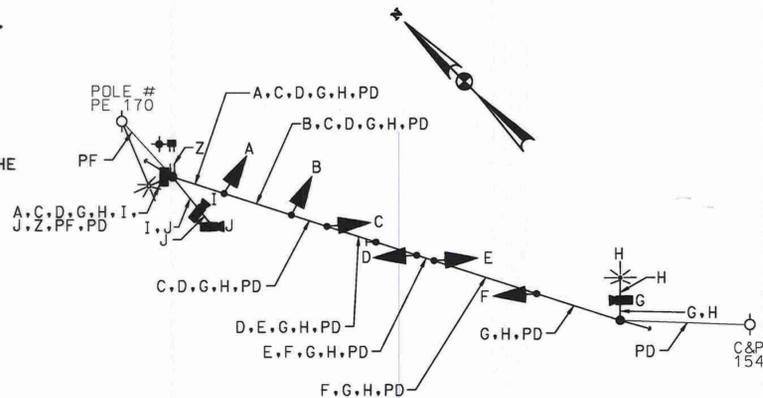
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE	DESCRIPTION	UNIT	QUANTITY
114245	24 INCH WHITE REMOVABLE PREFORMED PAVEMENT LINE MARKINGS	LF	50
114275	REMOVAL OF REMOVABLE PREFORMED PAVEMENT MARKINGS - ANY WIDTH	LF	390
114305	12 INCH REMOVABLE PATTERNED BLACK LINE MASK TAPE FOR MAINTENANCE OF TRAFFIC	LF	340
120777	COVER SIGNS	SF	18
203030	TEST PIT EXCAVATION	CY	10
585430	5 INCH YELLOW NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKINGS	LF	210
585432	5 INCH WHITE NONTOXIC LEAD FREE WATERBORNE PAVEMENT MARKINGS	LF	40
585625	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS	LF	30
800000	40 FOOT CLASS II WOOD STRAIN POLE WITH BACK GUY	EA	2
800000	REMOVE TEMPORARY TRAFFIC SIGNAL AND SIGNS	LS	1
801106	WOOD SIGN SUPPORTS 4 INCH X 6 INCH	LF	90
801607	INSTALL SHEET ALUMINUM SIGN	SF	70
802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	25
805010	1/2 INCH ELECTRICAL CONDUIT - GALVANIZED RISER	LF	30
805050	WEATHER HEAD, 3 INCH	EA	2
805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	15
807400	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS	EA	1
811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
813015	INSTALL OVERHEAD SIGN	SF	10
816001	VIDEO DETECTION CAMERA	EA	3
816005	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER	EA	3
831010	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	1
832017	CABLE - 1 CONDUCTOR, NO 4 AWG, TYPE USE, 600V	LF	110
837001	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH	EA	1
860284	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	20
861107	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	180
861108	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	120
861116	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	170
866101	10 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
866103	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
869101	STEEL SPAN WIRE - 1/4 INCH DIAMETER	LF	135
869102	STEEL SPAN WIRE - 3/8 INCH DIAMETER	LF	135
871201	INSTALL CONTROLLER AND CABINET - POLE MOUNT	EA	1

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO SHA.

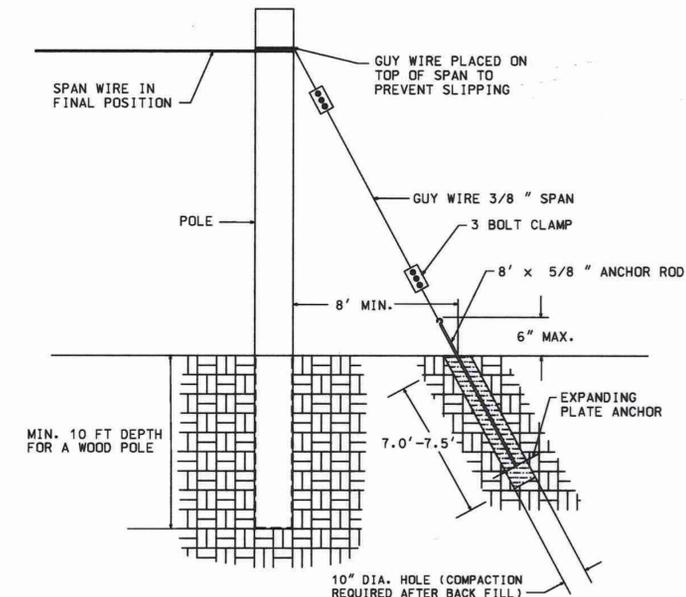
SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME PROPERTY OF THE CONTRACTOR.



PHASING CHART

	1	2	3	4	5	6	
PHASE 1 & 6	G	G	R	R	R	R	↕
1 & 6 CHANGE	G	G	R	R	R	R	↔
PHASE 2 & 6	G	G	G	G	R	R	↕
2 & 6 CHANGE	Y	Y	Y	Y	R	R	↔
PHASE 3	R	R	R	R	G	G	↕
3 CHANGE	R	R	R	R	Y	Y	↔
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	↕

BACK GUY TYPICAL AND ANCHOR DETAIL



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
TREVANION ROAD @ ANTRIM BOULEVARD
TEMPORARY SIGNAL
TANEYTOWN, MARYLAND

REVISIONS	GENERAL INFORMATION SHEET
<p>2. REDLINE REVISION NO. 2 2008 <i>George W. Biddle 9/9/08</i></p>	<p>SCALE NONE DATE 11/9/2007 CONTRACT NO. CL6955184</p> <p>DESIGNED BY B.J.G. COUNTY CARROLL DRAWN BY B.J.G. LOGMILE N/A CHECKED BY D.A.E. TMS NO. H545 FAP NO. TOD NO.</p> <p>TS 4829 SG - 2 OF 2 SHEET NO. 212 OF 283</p>

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BY: B.J.G.