

**PROJECT DESCRIPTION**

THIS PROJECT INVOLVES CONSTRUCTION OF A FULL-COLOR TRAFFIC SIGNAL AT THE INTERSECTION OF US 1 (WASHINGTON BLVD) AT PORT CAPITAL DRIVE. THE INSTALLATION INCLUDES LED SIGNAL HEADS, LED LUMINAIRES, SIGNS, AND IP-BASED VIDEO DETECTION CAMERAS. INTERCONNECT WILL BE INSTALLED AT THIS LOCATION. US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

**INTERSECTION OPERATION**

THIS INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE FULL-TRAFFIC-ACTUATED MODE. THE NORTHBOUND LEFT TURNS AT THIS INTERSECTION WILL OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

**CONTROLLER REQUIREMENTS**

A NEW FULL-TRAFFIC-ACTUATED EIGHT-PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE FURNISHED BY SHA AND INSTALLED BY THE CONTRACTOR. IP-BASED VIDEO DETECTION INTERFACE EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY SHA.

**CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:**

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**EQUIPMENT LIST "A, B & C"**

**A. EQUIPMENT TO BE SUPPLIED BY THE SHA**

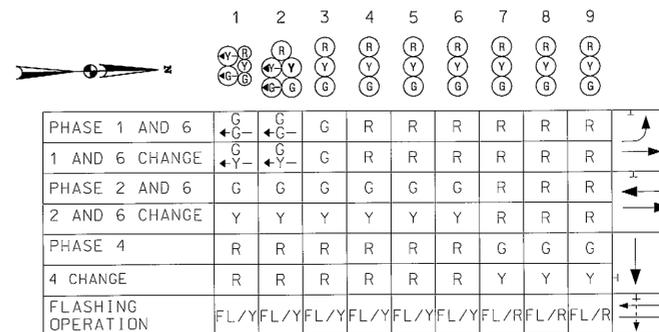
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9104	CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAM	EA	1
9571	SHEET ALUMINUM GROUND MOUNTED SIGN	SF	114
	3 - W3-3 FY 36"X36" 1 - W3-3 FY 30"X30"		
	3 - D-3(2) FY 54"X30" 1 - D-3(2) FY 42"X24"		
	3 - W16-14(1) FY 24"X24" 1 - M3-1 30"X15"		
	1 - OM1-3 FY 18"X18" 1 - M3-3 24"X12"		
	1 - M1-4 36"X36" 1 - M1-4 24"X24"		
	1 - M6-1(1) 30"X24" 1 - M6-1 21"X15"		
9570	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN	SF	48
	4 - D-3(1) 96"X16"		
	1 - R4-7 24"X30"		

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

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	2
5002	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS	LF	105
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS	LF	75
5005	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	100
8001	12 INCH LED SIGNAL HEAD SECTION	EA	28
8004	8 INCH LED SIGNAL HEAD SECTION	EA	3
8007	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED LAMP AND LUMINAIRE	EA	2
8013	EMBEDDED METERED SERVICE PEDESTAL WITH BYPASS SWITCH	EA	1
8015	INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE)	EA	1
8023	MAST ARM POLE & 70' MAST ARM ANY 'T' DIMENSION	EA	2
8027	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8032	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH	EA	4
8037	DISCONNECT, PULL-BACK & REROUTE CABLES	LF	900
8038	ELECTRICAL CABLE - 3-CONDUCTOR (NO. 12 AWG) TYPE T/C	LF	420
8042	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED	LF	165
8044	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED	LF	440
8045	WOOD SIGN SUPPORTS UP TO 4' X 6'	LF	210
8046	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	162
8048	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	250
8049	WEATHER HEAD, 3 INCH	EA	2
8051	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN	LF	85
8052	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	4
8061	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	90
8062	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1200

**C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.**

**PHASING CHART**

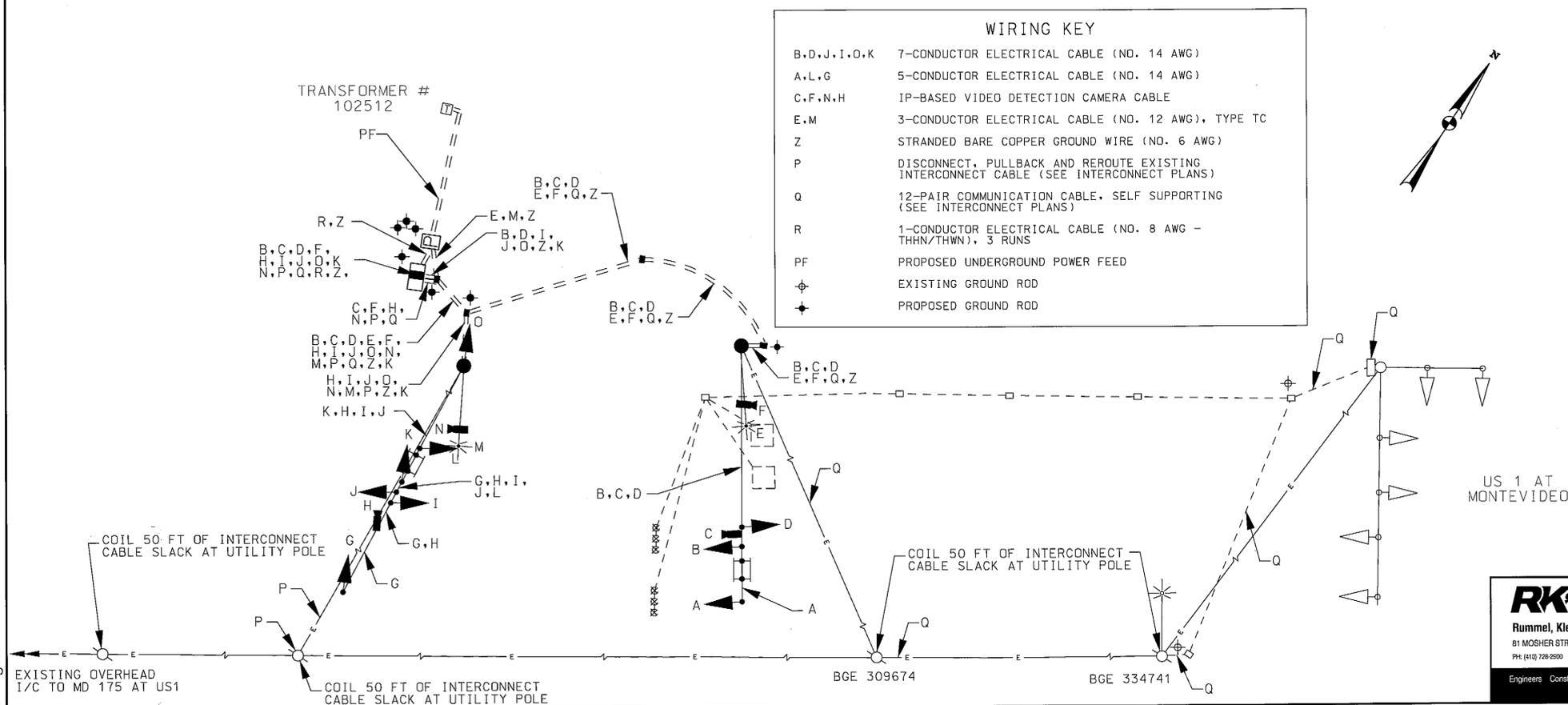


**GENERAL NOTES**

- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET 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.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE 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 AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 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.
- PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
- VIDEO DETECTION CAMERA ALIGNMENT SHALL BE COORDINATED WITH THE ENGINEER.
- NEW SIGNAL WARNING SIGN ASSEMBLIES SHALL BE REMOVED 90 TO 120 DAYS AFTER SIGNAL TURN ON, AT WHICH TIME THE APPROPRIATE ADVANCED STREET NAME SIGNS SHALL BE INSTALLED BY SHA DISTRICT #7.

**WIRING KEY**

B,D,J,I,O,K	7-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
A,L,G	5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
C,F,N,H	IP-BASED VIDEO DETECTION CAMERA CABLE
E,M	3-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG), TYPE TC
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
P	DISCONNECT, PULLBACK AND REROUTE EXISTING INTERCONNECT CABLE (SEE INTERCONNECT PLANS)
Q	12-PAIR COMMUNICATION CABLE, SELF SUPPORTING (SEE INTERCONNECT PLANS)
R	1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG - THHN/THWN), 3 RUNS
PF	PROPOSED UNDERGROUND POWER FEED
⊕	EXISTING GROUND ROD
⊕	PROPOSED GROUND ROD



TOD NO: XX524-06  
SHA NO: HO198B51  
US 1 @ Port Capital Drive



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

US 1 (WASHINGTON BLVD) AT  
PORT CAPITAL DRIVE  
JESSUP, MARYLAND

**REVISIONS**

**GENERAL INFORMATION SHEET**

SCALE NONE DATE APRIL 2013 CONTRACT NO. XX5245185

DESIGNED BY GS COUNTY HOWARD

DRAWN BY GS LOGMILE 13000106.01

CHECKED BY BJC TMS NO. L836

FAP NO. TOD NO.

TS NO. 4912-GI DRAWING SP-2 OF 2 SHEET NO. 2 OF 3



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