

PROJECT DESCRIPTION

THIS PROJECT INVOLVES SIDEWALK RAMP RECONSTRUCTION AND SIGNING UPGRADES AT THE INTERSECTION. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE FULL-TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE MD 528 LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING.

CONTROLLER REQUIREMENTS

~~THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE USED. THE EXISTING CONTROLLER HAS AN APS CENTRAL CONTROL UNIT.~~

A FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH VIDEO DETECTION EQUIPMENT HOUSED IN A BASE MOUNTED NEMA SIZE 5 CABINET SHALL INSTALL ON THE EXISTING CABINET FOUNDATION. THE EXISTING APS CENTRAL CONTROL UNIT SHALL BE RELOCATED TO THE PROPOSED CABINET AND INSTALLED BY SHA. [1]

CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. GENE COFIELL, ASSISTANT DISTRICT ENGINEER-TRAFFIC, PHONE: (410) 677-4040
 MR. RAVINDRA GANVIR, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION, PHONE: (410) 677-4020

MR. JAMES WRIGHT, ASSISTANT DISTRICT ENGINEER - MAINTENANCE, PHONE: (410) 677-4010

CONTACT PERSONS FOR DOT'S 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 NOTES

APS WILL FUNCTION AS FOLLOWS:

TO CROSS COASTAL HIGHWAY:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE WILL BE "WAIT TO CROSS COASTAL HIGHWAY AT 142ND".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

WIRING KEY	
EX	EXISTING CABLE TO REMAIN
LW	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG) [1]
PF	RELOCATED OVERHEAD POWER SERVICE BY DELMARVA
Z	STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
A,B	500 FT. VIDEO DETECTION CABLE [1]
C,D	250 FT. VIDEO DETECTION CABLE [1]
⊕	EXISTING GROUND ROD
⊕	PROPOSED GROUND ROD [1]

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 4 - R10-3(1) (9"X15")	SF	4
9042	CONTROLLER ASC II WITH TELEMETRY	EA	1 [1]
9043	CONTROLLER CABINET, SIZE 5	EA	1 [1]
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1 [1]
9000	RELOCATE EXISTING APS CENTRAL CONTROL UNIT TO PROPOSED CABINET	EA	1 [1]

EQUIPMENT LIST "B"

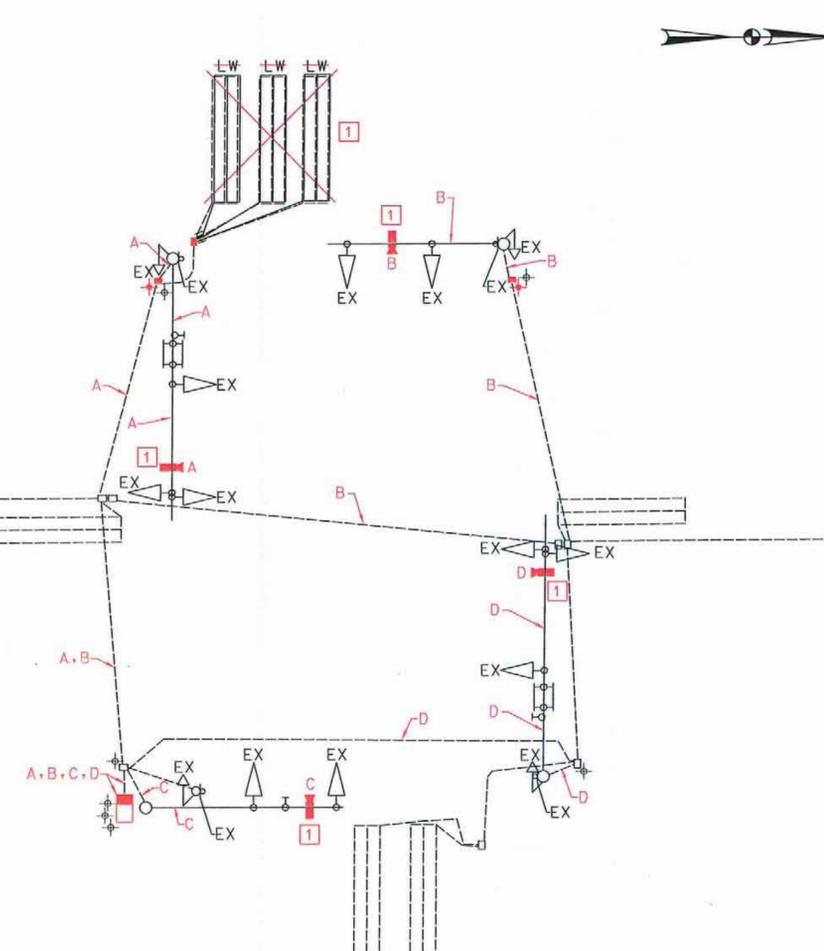
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1003	MAINTENANCE OF TRAFFIC (PAID FOR ON 36TH GI)	EA	0
6001	F & I STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH	LF	-76- 61 [1]
6002	F & I 5" CONCRETE SIDEWALK	SF	-405- 335 [1]
6003	F & I DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	40
8004	ADJUST EXISTING HANDHOLE TO GRADE INCLUDING COLLAR	EA	-3- 0 [1]
8021	REMOVE & DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT (PAID FOR ON 36TH GI)	EA	0
8025	F & I VIDEO DETECTION CAMERA AND CABLE UP TO 500'	EA	4 [1]
8026	F & I 1" DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT	LF	-15- 0 [1]
8036	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	4
8045	F & I ELECTRICAL HANDHOLE	EA	3 [1]
8059	F & I LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)	LF	-1810- 0 [1]
8060	F & I SAW CUT FOR SIGNAL (LOOP DETECTOR)	LF	-460- 0 [1]
8065	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1 [1]
8000 NEG	F & I 6"X6" LANDSCAPE TIMBER	LF	120 [1]

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

[1] EXISTING 2 WIRE APS CENTRAL CONTROL UNIT SHALL BE SALVAGED AND RELOCATED TO NEW CABINET



PHASING CHART

NO PHASE CHANGE

GENERAL NOTES

1. ALL EXISTING FOUNDATION TOPS WITHIN EXISTING SIDEWALK SHALL BE REMOVED 2" BELOW SIDEWALK GRADE.
2. ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK GRADE.
3. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE.
4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
7. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
8. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- [1] 10. THE CONTRACTOR SHALL COORDINATE WITH DISTRICT 1 TRAFFIC TO COORDINATE TRAFFIC SIGNAL TURN OFF AND TEMPORARY STOP CONTROL. CONTRACTOR SHALL VERIFY ANY EVENT OR DATE RESTRICTIONS PRIOR TO TRAFFIC SIGNAL TURN OFF.

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 528 (COASTAL HWY.) AT 142ND ST.
 OCEAN CITY, MARYLAND

REVISIONS		GENERAL INFORMATION SHEET	
REDLINE NO. 1 03/25/09 ADD VIDEO DETECTION, REPLACE CABINET, MODIFY SIDEWALK WORK	SCALE 1"=20'	DATE NOVEMBER 2008	CONTRACT NO. XX4435185
DESIGNED BY BJK	COUNTY WORCESTER	DRAWN BY BJK	LOGMILE 23052800.27
CHECKED BY DAE	TMS NO. J610	FAP NO.	TOD NO.
TS NO. 1435F-GI	DRAWING SG-II	OF SG-13	SHEET NO. II OF 13

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BY: BJK