

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE SIDEWALK RAMPS, INSTALLATION OF LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, APS PUSHBUTTONS AND SIGNS AT THE INTERSECTION OF MD 528 AND 70TH STREET. 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. THE MD 528 NORTHBOUND AND SOUTHBOUND LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING. ALTERNATE PEDESTRIAN PHASE IS PROVIDED FOR THENORTH AND SOUTH LEG OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH TELEMETRY CABLE HOUSED IN A BASE MOUNTED CABINET SHALL REMAIN. A 2-WIRE APS CENTRAL CONTROL UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA.

SPECIAL NOTE

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 AT 70TH. WAIT"
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS:

MR. KENNETH CIMINO ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: (410) 677-4040	MR. GREG HOLSEY ASSISTANT DISTRICT ENGINEER - CONST. PHONE: (410) 677-4020
MR. BRUCE POOLE DISTRICT UTILITY ENGINEER PHONE: (410) 677-4082	MR. JAMES WRIGHT ASSISTANT DISTRICT ENGINEER - MAINT. PHONE: (410) 677-4010
MR. TERRY MCGEAN TOWN OF OCEAN CITY - CITY ENGINEER PHONE: (410) 289-8845	

CONTACT PERSONS FOR OOTS ARE AS FOLLOWS:

CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410)787-7630	MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF TRAFFIC OPERATIONS (410)787-7630	MR. JOHN GOVER OFFICE OF HIGHWAY DESIGN PHONE: (410) 545-8766
MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS (410)787-7650	MR. EUGENE BAILEY CHIEF, SIGN OPERATIONS (410)787-7676	

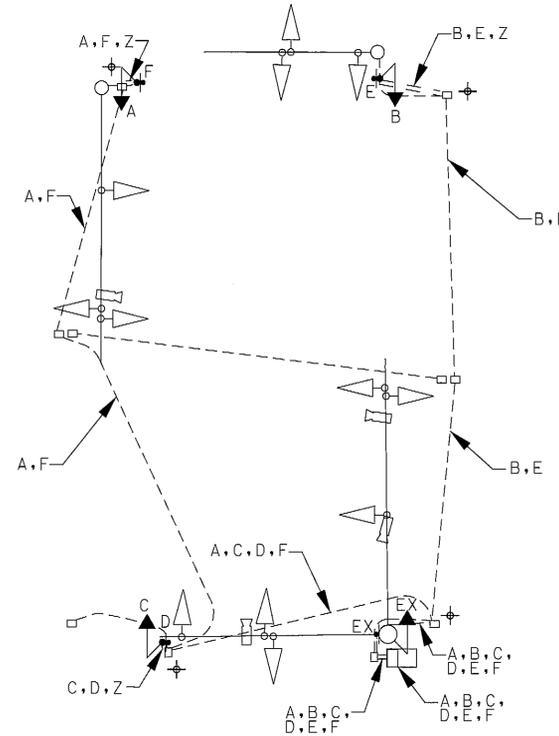
EQUIPMENT LIST "A,B & C"

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

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1002	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS, ANY WIDTH	LF	1400
5005	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS	LF	1050
8001	FURNISH AND INSTALL AUDIBLE / TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	4
8002	FURNISH AND INSTALL BREAKWAY PEDESTAL POLE - ANY SIZE	EA	3
8003	FURNISH AND INSTALL LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS	EA	4
8004	REMOVE AND DISPOSE PER ASSIGNMENT	EA	1
8007	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	40
8009	ADJUST EXISTING HANDHOLE	EA	4
8010	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	40
8013	INSTALL GROUND MOUNTED SIGN	SF	4
8018	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	575
8019	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	600

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



WIRING KEY	
EX	USE EXISTING CABLE
A,B,C	5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
D,E,F	2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)
Z	STRANDED BARE COPPER GROUND WIRE (NO.6 AWG)
⊕	EXISTING GROUND ROD

PHASING CHART

NO PHASE CHANGE

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
2. 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.
3. LOCATION OF ACCESSIBLE PEDESTRIAN PUSHBUTTONS MUST MEET THE LOCATION REQUIREMENTS OF THE MUTCD, SECTION 4E-09 AND FIGURE 4E-2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNAL: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
4. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM 60"X60" LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN 2%.
5. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
6. ADA REQUIRES THAT ANY ABRUPT CHANGE IN ELEVATION IN SIDEWALK BE LESS THAN 1/4".
7. 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.
8. VIDEO DETECTION CAMERA REALIGNMENT SHALL BE COORDINATED WITH THE ENGINEER.
9. THE CONTRACTOR SHALL CAP AND ABANDON CONDUIT FEEDING SIGNAL EQUIPMENT THAT IS REMOVED.
10. THE 10' SEPERATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 528 AT 70TH STREET  
OCEAN CITY, MARYLAND

REVISIONS	GENERAL INFORMATION SHEET		
	SCALE	DATE	CONTRACT NO.
	NONE	AUGUST 2012	XX1285133
	DESIGNED BY	AMR	COUNTY
	DRAWN BY	AMR	LOGMILE
	CHECKED BY	BJG	TIMS NO.
	FAP NO.		TOD NO.
	TS NO. 357E-GI	DRAWING	SP-2 OF 2
			SHEET NO. 14 OF 24

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BY: WFW