

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS (ACCESSIBLE PEDESTRIAN SIGNALS) AND ADA COMPLIANT SIDEWALK RAMPS FOR THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 150 (EASTERN BLVD.) AND STEMMERS RUN ROAD IN BALTIMORE COUNTY, MARYLAND. MD 150 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION WILL REMAIN THE SAME.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

MD 150 (EASTERN BLVD) AND STEMMERS RUN ROAD - NORTH LEG STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS EASTERN AT STEMMERS RUN, WAIT." *
WALK: RAPID TICK

MD 150 (EASTERN BLVD) AND STEMMERS RUN ROAD - SOUTH LEG STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS EASTERN AT STEMMERS RUN, WAIT." *
WALK: RAPID TICK

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - NORTHEAST CORNER STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS STEMMERS RUN AT EASTERN, CROSSWALK ANGLES LEFT, WAIT." **
WALK: RAPID TICK

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - MEDIAN CROSSING TO NORTHEAST CORNER STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS STEMMERS RUN AT EASTERN, CROSSWALK ANGLES LEFT, WAIT." **

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - SOUTHEAST CORNER STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS STEMMERS RUN AT EASTERN, CROSSWALK ANGLES RIGHT, WAIT." **

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - MEDIAN CROSSING TO SOUTHEAST CORNER STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS STEMMERS RUN AT EASTERN, CROSSWALK ANGLES RIGHT, WAIT." **

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - WEST LEG STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS STEMMERS RUN AT EASTERN, WAIT." *
WALK: RAPID TICK

STEMMERS RUN ROAD AT MD 150 (EASTERN BLVD) - MEDIAN STREETS AT 90 DEGREES

WAIT: "WAIT TO CONTINUE ACROSS EASTERN, WAIT." *

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'
** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE APS EQUIPMENT.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

- STANDARD NO. MD-104.04-01 (SHOULDER WORK)
- STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
- STANDARD NO. MD-104.02-13 (INTERSECTION FLAGGING OPERATION)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. ERIN KUH!
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 229-2381

MR. MIKE PASQUARIELLO
DISTRICT UTILITY ENGINEER
PHONE: (410) 229-2341

MR. ANDRE FUTRELL
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 229-2361

CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630



WHITMAN, REQUARDT & ASSOCIATES, LLP
801 South Caroline Street, Baltimore, Maryland 21231

BY: sbloss

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
90000	11 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (POLE MOUNT) : - 11 EACH R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS SOUTHEAST BLVD"
90000	104 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF (GROUND MOUNT) : - 4 EACH S1-1 SIGN (36 IN. x 36 IN.) AND W16-7pR (24 IN. x 12 IN.) - 4 EACH S1-1 SIGN (36 IN. x 36 IN.) AND W16-7pL (24 IN. x 12 IN.) - 2 EACH R4-7 SIGN (24 IN. x 30 IN.) - 2 EACH OM1-3 SIGN (18 IN. x 18 IN.)

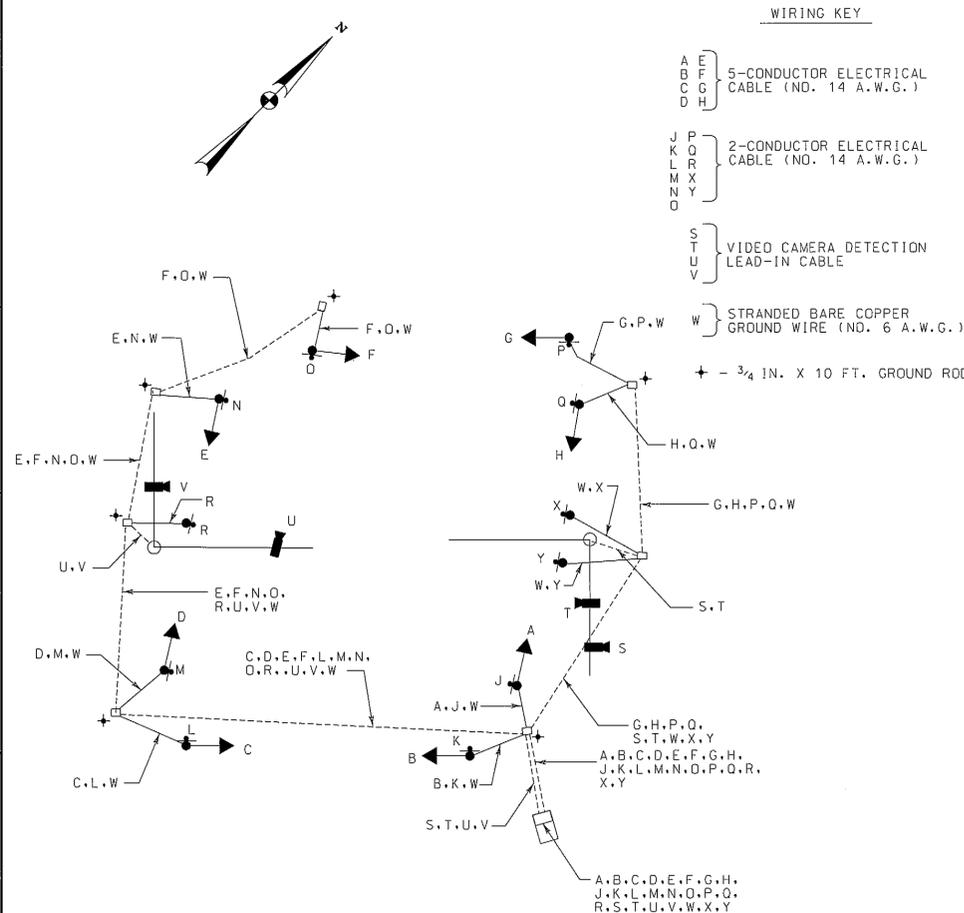
EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

THE INTERSECTION OPERATION WILL REMAIN THE SAME.

WIRING DIAGRAM



EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
100000	1 EACH	MAINTENANCE OF TRAFFIC
203030	5.5 C.Y.	TEST PIT EXCAVATION
500000	136 S.Y.	8 INCH PORTLAND CEMENT CONCRETE FOR DRIVEWAY MIX 9
585621	1210 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	110 L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585700	1300 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
600000	390 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	280 L.F.	STANDARD TYPE A CURB ANY HEIGHT OR DEPTH
600000	150 S.F.	DETECTABLE WARNING SURFACE FOR CURB RAMPS (TYPE 3 BRICK PAVERS)
655105	2900 S.F.	5 IN. CONCRETE SIDEWALK
800000	1 EACH	2-WIRE APS CENTRAL CONTROL UNIT
800000	2 EACH	ADJUST HANDHOLE TO GRADE AND REPLACE FRAME AND COVER
800000	11 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	8 EACH	16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	4 EACH	IP-BASED VIDE DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE
800000	11 EACH	5 OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION AND GROUND ROD
800000	1 EACH	REMOVE AND DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION)
800000	115 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
800000	64 L.F.	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
800000	115 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
801130	4 EACH	SQUARE PERFORATED TUBULAR STEEL SIGN POST
801135	4 EACH	SQUARE TUBULAR STEEL ANCHOR BASE
802501	90 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
861105	1860 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	1660 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 150 (Eastern Blvd) and Stemmers Run Road
Middle River, Md

GENERAL INFORMATION SHEET

SCALE	NONE	ADVERTISED DATE	2/05/2013	CONTRACT NO.	XY1515185
DESIGNED BY	B. Donoway	COUNTY	Baltimore		
DRAWN BY	B. Donoway	LOGMILE	03015004.66		
CHECKED BY	N. Leary	TMS NO.	LB25		
F.A.P. NO.		TOD NO.			
TS NO.	3861E	DRAWING	TSP-3	OF	3
				SHEET NO.	3 OF 3