

PROJECT DESCRIPTION

GENERAL
 THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF U.S. 40 (PULASKI HIGHWAY) & OTSEGO ROAD/MD 155 (OHIO STREET) THIS PROJECT IS LOCATED IN HARFORD COUNTY, MARYLAND.
 U.S. 40 (PULASKI HIGHWAY) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
 THE INTERSECTION OPERATES IN A NEMA SEVEN-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE US 40 APPROACHES OPERATING CONCURRENTLY AND THE OTSEGO STREET APPROACHES OPERATING CONCURRENTLY AND THE MD 155 APPROACH OPERATING ALONE.
 EXCLUSIVE LEFT-TURN PHASING IS PROVIDED ON THE US 40 APPROACHES.
 EMERGENCY PRE-EMPTION IS PROVIDED ON MD 155 (OHIO STREET), NORTHBOUND MD 7A (OTSEGO STREET), AND ON EASTBOUND US 40 (PULASKI HIGHWAY)
 AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE WEST LEG OF US 40
 A PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH LEG OF OTSEGO STREET.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS
 U.S. 40 (PULASKI HIGHWAY) AND OTSEGO ROAD/MD 155 (OHIO STREET)

1. **U.S. 40 (PULASKI HIGHWAY) AND OTSEGO ROAD**
 TYPICAL INTERSECTION, STREETS AT 90 DEGREES
 WAIT: "WAIT TO CROSS PULASKI AT OTSEGO. WAIT CROSSWALK ANGLES ~~RIGHT~~ LEFT"
 WALK: RAPID TICK

2. **U.S. 40 (PULASKI HIGHWAY) AND OTSEGO ROAD - MEDIAN**
 TYPICAL INTERSECTION, STREETS AT 90 DEGREES
 WAIT: "WAIT TO CROSS PULASKI AT OTSEGO. WAIT CROSSWALK ANGLES ~~RIGHT~~ LEFT"
 WALK: RAPID TICK

3. **OTSEGO ROAD AND U.S. 40 (PULASKI HIGHWAY)**
 TYPICAL INTERSECTION, STREETS AT 90 DEGREES
 WAIT: "WAIT TO CROSS OTSEGO AT PULASKI. WAIT CROSSWALK ANGLES LEFT"
 WALK: RAPID TICK

* 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
 1. US 40 AND OTSEGO ROAD/MD 155
 THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED.

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-104.04-13 (LEFT TURN BAY CLOSURE)
 STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE) STANDARD NO. MD-104.04-15 (INTERSECTION LEFT LANE, TURN BAY)
 STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

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

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

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

MR. ROBERT SYNDER
 ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION
 PHONE: (410) 787-7631

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



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

| CATEGORY CODE | QUANTITY | DESCRIPTION |
|---------------|----------|--|
| 9571 | 5 S.F. | SHEET ALUMINUM SIGNS TO CONSIST OF : |
| | | - 3 EACH R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS PULASKI HIGHWAY". |
| | | - 2 EACH R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS OTSEGO STREET" |

EQUIPMENT LIST "C"

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

EQUIPMENT LIST "B"

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

| ITEM NO. | QUANTITY | DESCRIPTION |
|----------|-----------|--|
| 1001 | 365 L.F. | REMOVAL OF EXISTING PERMANENT PAVEMENT LINES - ANY WIDTH |
| 2002 | 5 C.Y. | TEST PIT EXCAVATION |
| 5005 | 350 L.F. | 12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS |
| 6005 | 25 SF | 5 INCH CONCRETE SIDEWALK |
| 8001 | 5 EACH | AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION |
| 8002 | 5 EACH | BREAKAWAY PEDESTAL POLE - ANY SIZE |
| 8003 | 1 EACH | FURNISH AND INSTALL 2-WIRE CONTROL UNIT |
| 8004 | 6 EACH | LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS |
| 8007 | 1 EACH | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT |
| 8012 | 165 L.F. | NO. 6 AWG STRANDED BARE COPPER GROUND WIRE |
| 8013 | 105 L.F. | 3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED |
| 8015 | 5 S.F. | INSTALL GROUND MOUNTED SIGN |
| 8018 | 5 EACH | GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH |
| 8019 | 1 EACH | CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE |
| 8020 | 1240 L.F. | ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) |
| 8021 | 1410 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

U.S. 40 (Pulaski Highway) at MD 7A (Otsego Street) / MD 155 (Ohio Street) / Otsego
 Havre de Grace, Maryland

GENERAL INFORMATION SHEET

SCALE NONE DATE 05/20/10 CONTRACT NO. AX7045168

DESIGNED BY S. Bloss COUNTY Harford
 DRAWN BY S. Bloss LOGMILE 12004002.66
 CHECKED BY N. Leary TMS NO. K526
 F.A.P. NO. _____ TOD NO. _____

TS NO. _____ DRAWING **TSP-3** OF 3 SHEET NO. 3 OF 3

BY: bdonoway