

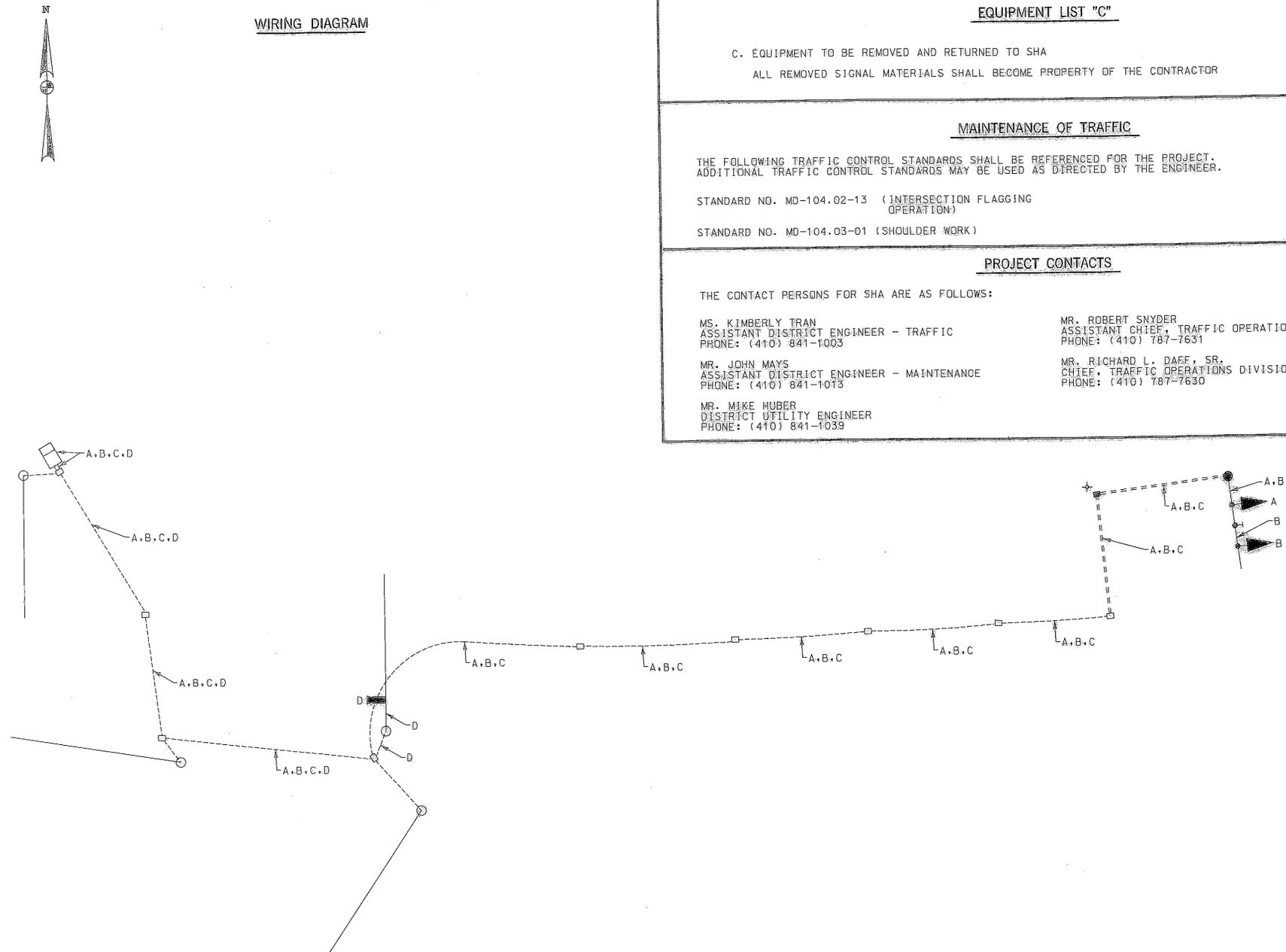
PROJECT DESCRIPTION

GENERAL
 THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF I-97 OFF RAMP AND MD 162A/CROMWELL PARK DRIVE IN ANNE ARUNDEL COUNTY, MARYLAND. MD 162A IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
 THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE I-97 SB/MD 162A APPROACHES OPERATING CONCURRENTLY AND CROMWELL PARK DRIVE APPROACH OPERATING ALONE. EXCLUSIVE LEFT-TURN PHASING IS PROVIDED ON MD 162A APPROACH.

CONTROLLER REQUIREMENTS
 THE EXISTING BASE MOUNTED CABINET AND CONTROLLER WILL BE USED. THE CONTROLLER WILL BE RETROFITTED TO OPERATE VIDEO DETECTION.

WIRING DIAGRAM



WIRING KEY

- A } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- B } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- C } VIDEO CAMERA DETECTION LEAD-IN CABLE
- D } 3/4 IN. X 10 FT. GROUND ROD



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9001	6 EACH	FURNISH AND INSTALL LED BULBS
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-8 CAMERAS
9571	75.75 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R3-8(3) (48"x30")- GROUND MOUNT - 1 EACH W3-3a(1) (120"x48")- MAST ARM MOUNT - 1 EACH R3-18 (30"x30")- MAST ARM MOUNT MOUNT - 1 EACH SIGN DETAIL 'A' (36"x42")- GROUND MOUNT - 1 EACH W3-3 (36"x36")- MAST POLE MOUNT
9631	1 EA.	76' MAST ARM Single 21' Pole.

EQUIPMENT LIST "C"

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

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-104.02-13 (INTERSECTION FLAGGING OPERATION)
 STANDARD NO. MD-104.03-01 (SHOULDER WORK)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

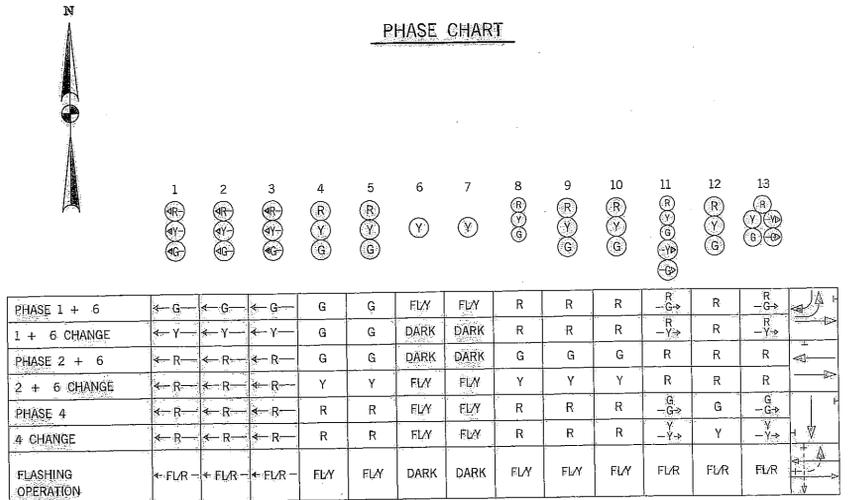
MS. KIMBERLY TRAN ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-1003	MR. ROBERT SNYDER ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7631
MR. JOHN MAYS ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 841-1013	MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630
MR. MIKE HUBER DISTRICT UTILITY ENGINEER PHONE: (410) 841-1039	

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2002	1 C.Y.	TEST PIT EXCAVATION
5002	45 L.F.	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
8001	27 EACH	12 INCH LED SIGNAL HEAD SECTION
8004	6 EACH	8 INCH LED SIGNAL HEAD SECTION
8020	1 EACH	MAST ARM POLE & 76' MAST ARM ANY 1" DIMENSION
8023	1 EACH	REM & DISPOSE MAT & EQUIP (PER ASSIGNMENT)
8028	1 EACH	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8036	50 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
8038	50 L.F.	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
8039	47 L.F.	WOOD SIGN SUPPORTS UP TO 4' X 6'
8040	75.75 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8046	1 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	1 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8055	2220 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8014	1 EA.	Special MAST ARM Pole with 76' Arm.

PHASE CHART



6A-8P FULL COLOR M-F, SAT. AND SUN.
 FLASHING OPERATION ALL OTHER TIMES

TOD NO: XX647-09
 SHA NO: AA127B54
 I-97 Ramp @ MD 162A/Cromwell Park Drive

SHA STATE OF MARYLAND
 DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 OFFICE OF TRAFFIC & SAFETY
 TRAFFIC ENGINEERING DESIGN DIVISION
 I-97 SB OFF RAMP @ MD 162A/CROMWELL PARK DR
 Glen Burnie, Maryland

GENERAL INFORMATION SHEET

SCALE NONE	DATE 10/06/2011	CONTRACT NO. XX6475185
DESIGNED BY L. WAESCHE	COUNTY ANNE ARUNDEL	
DRAWN BY L. WAESCHE	LOGMILE	
CHECKED BY N. LEARY	TIMS NO. L115	
F.A.P. NO.	TOD NO.	
TS NO. 3585B	DRAWING TSP-2	OF 2 SHEET NO. 2 OF 2