

**PROJECT DESCRIPTION**

**I. GENERAL**  
 This portion of the project involves the reconstruction of the existing traffic control signal at the intersection of US 50 (Ocean Gateway) and Ocean Landing Shopping Center East Entrance in Worcester County, Maryland. US 50 is considered to run in an east/west direction.

**II. INTERSECTION OPERATION**  
 The intersection is to operate in a NEMA two (2) phase, semi-traffic-actuated mode. There will be an exclusive left turn phase for the westbound movement of US 50 with a concurrent northbound to eastbound movement. The US 50 eastbound through movement will operate alone.  
 The existing controller and loop detector amplifier will be relocated into a new base mounted cabinet. The new cabinet will have video detection.

**EQUIPMENT LIST**

**A. Equipment to be supplied by the State Highway Administration.**  
 None.

**B. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor.** All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Description
1	EA	27 ft. steel mast arm pole with a 60 ft. mast arm.
1	EA	14 ft. steel pedestal pole with break away transformer base.
1	EA	Standard S.H.A. traffic signal controller, base mounted NEMA 6 cabinet; video detection interface, telemetry interface equipment, (Note: Controller and cabinet shall be purchased from econolite and delivered to the S.H.A. Signal Shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650).
5	EA	12 in., one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
3	EA	Terra Video Detection Camera
700	LF	Terra Video Detection Cable (No. 18 A.W.G.).
2	EA	30 in. x 36 R 3-5(R) sign with mast arm mounting hardware.
1	EA	48 in. x 72 in. Shield Assembly sign with pole mounting hardware.
Lump Sum	LS	Mobilization.
Lump Sum	LS	Maintenance of traffic.
4	CY	Test pit excavation.
5	EA	Handhole.
2	EA	Non-invasive probe (set of 3) with 1000 ft. lead-in cable.
45	LF	1-conductor electrical cable (No. 8 A.W.G.).
90	LF	5-conductor electrical cable (No. 14 A.W.G.).
900	LF	7-conductor electrical cable (No. 14 A.W.G.).
260	LF	Bare copper stranded ground wire (No. 6 A.W.G.).
30	LF	2 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
260	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
125	LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
80	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
290	LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - bored.
9.5	CY	Concrete foundation for traffic signal equipment.
6	EA	Ground rod - 3/4 in. diameter x 10 ft. length.
1	EA	Electrical utility service equipment (120/240 V, one phase, three wire system) for an underground electrical power service as per MD-SHA Typical No. 807.05-01 (100 amp. electrical pedestal).
90	LF	24 in. wide HAPPTM - white for stop line.
1	EA	Cap mast arm pole.
25	LF	Remove existing pavement marking by grinding.
Lump Sum	LS	Remove and salvage existing traffic signal equipment.
1	EA	12 in., one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with post top mounting hardware and tunnel visors.
2	EA	12 in., one-way, three section L.E.D. (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.

**CONTACT LIST**

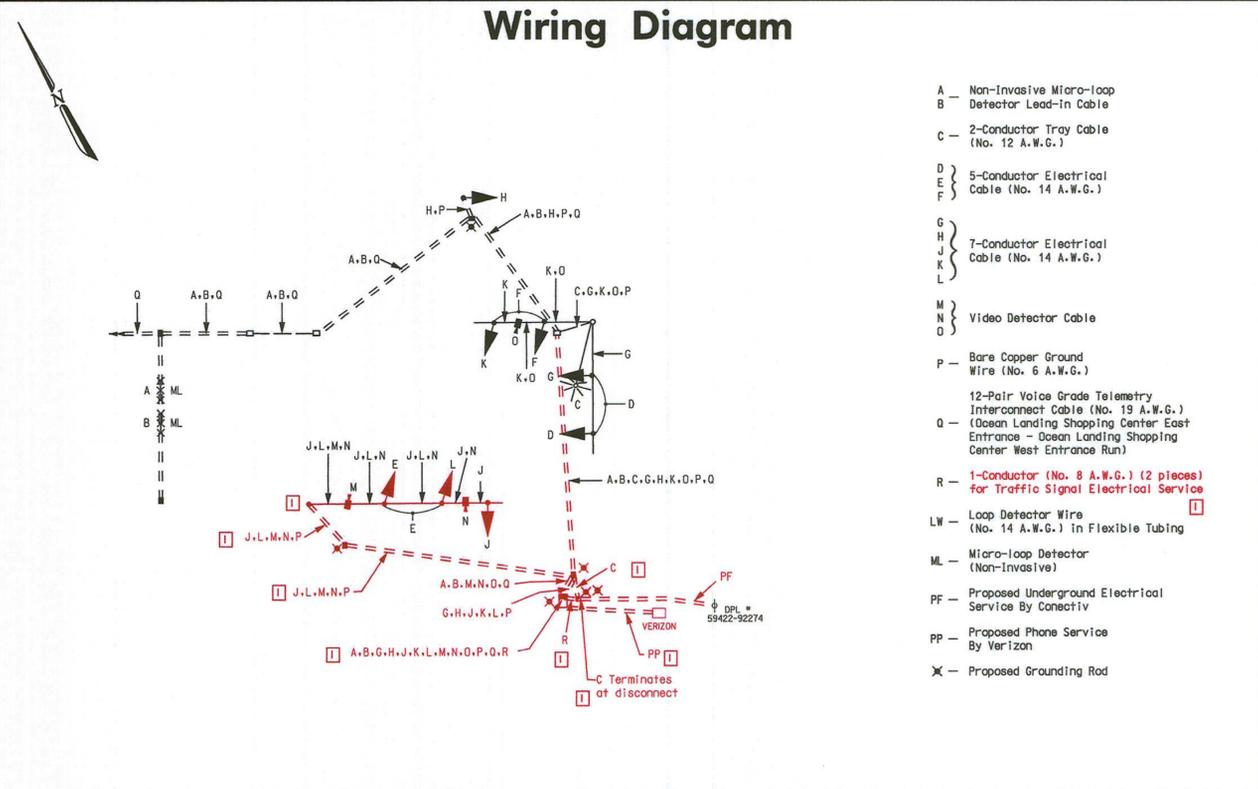
MR. KEN CIMINO, ASSISTANT DISTRICT ENGINEER - TRAFFIC  
 PHONE: (410) 677-4046  
 MR. GREG HOLSEY, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION  
 PHONE: (410) 677-4020  
 MR. WAYNE WIECHMAN, ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
 PHONE: (410) 677-4010  
 MR. BRUCE POOLE, UTILITY ENGINEER  
 PHONE: (410) 677-4082  
 MR. EDWARD RODENHIZER, SIGNAL OPERATIONS  
 PHONE: (410) 787-7652

THE POWER COMPANY REPRESENTATIVE IS:  
 DELMARVA POWER  
 HEATHER ADKINS  
 3530 SALISBURY BLVD  
 SALISBURY, MD 21802-1739  
 410-860-6357

**Phase Chart**

	1	2	3	4	5	6	7	8
Phase 1	R	R	←G	G	←G	←G	G	G
1 Change	R	R	←Y	Y	←Y	←Y	Y	Y
Phase 2	G	G	←R	R	←R	←R	R	R
2 Change	Y	Y	←R	R	←R	←R	R	R
Flashing Operation	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R

**Wiring Diagram**



Redline Revision Dated April 18, 2011  
**SHA** MDOT - SHA QOTS  
 4/20/2011  
 S.H.A. Approval Date  
 T.S. # 4297 T.I.M.S. # G-190  
 3866B

**SHA** STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION  
 US 50 (OCEAN GATEWAY) AT  
 OCEAN LANDING EAST ENTRANCE  
 BERLIN, MARYLAND

**GENERAL INFORMATION PLAN**

SCALE: NA DATE: AUGUST 9, 2010 CONTRACT NO.: BW896M82

DESIGNED BY: F. BROWNLEY COUNTY: WORCESTER  
 DRAWN BY: F. BROWNLEY LOGMILE: 23005010.07  
 CHECKED BY: [Signature] TMS NO.: G-190  
 F.A.P. NO.: TOD NO.:

TS NO. 3866B-GI DRAWING: GI-03 OF 03 SHEET NO. 6 OF 6

PLOTTED: Monday, April 18, 2011 AT 10:58 AM  
 FILE: F:\2005\2005-0502\Des\Red-Line No.1\p89-N001\_US50-LandingEast.dgn

**The Traffic Group, Inc.**  
 Suite H  
 9900 Franklin Square Drive  
 Baltimore, Maryland 21236  
 410-931-6600  
 1-800-583-8411  
 Fax 410-931-6601  
 "Merging Innovation and Excellence"®

BY: FHoekel