

PROJECT DESCRIPTION

EQUIPMENT LIST "A"

PHASE CHART

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 100 Eastbound and Westbound ramps at Oakwood Road in Anne Arundel County. MD 100 is assumed to run an east-west direction.

This project involves the installation of opticom for the off-ramp from MD 100 Westbound at Oakwood Road, and for the off-ramp from MD 100 Eastbound at Oakwood Road.

II. INTERSECTION OPERATION

- The intersections are to operate in a NEMA seven-phase (with two overlaps), full-traffic-actuated mode, with Oakwood Road approaches continuing to run concurrently. Exclusive/Permissive left turn phases shall continue to be provided for both approaches of Oakwood Road Eastbound to MD 100 Eastbound ramp, and Oakwood Road West to MD 100 Westbound Ramp. MD 100 Eastbound Ramp to Oakwood Road shall run alone. MD 100 Westbound Ramp to Oakwood Road shall continue to run alone. Two Pre-emption phases shall be added to these intersections. Pre-emption 1 shall be provided for MD 100 Westbound off ramp to Oakwood Road. Pre-emption 2 shall be provided for MD 100 Eastbound off ramp to Oakwood Road.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed a NEMA size "6" base-mounted cabinet shall remain in operation at these intersections.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
- All underground and overhead utilities shown on these plans are schematic only.
- Mr. Ed Rodenhizer will let the contractor know who in the county will receive the Opticom equipment.

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

EQUIPMENT LIST "B"

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

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
8016	1 EACH	FURNISH AND INSTALL 3M OPTICOM #764 DISCRIMINATOR MODULE - FOUR CHANNEL
8017	3 EACH	FURNISH THE COUNTY WITH 3M OPTICOM EMMITER SYSTEM 700 SERIES (FOR ANNE ARUNDEL COUNTY).
8018	2 EACH	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8052	180 L.F.	FURNISH AND INSTALL 4 INCH - PVC SCHEDULE 80 - BORED.
8056	685 L.F.	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE.

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY	DESCRIPTION
NONE	

- NOTE: 1. THE CONTRACTOR SHALL NOTIFY THE SHA AT 410-787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY
 2. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. GREG WALKERS
 DISTRICT ENGINEER
 PHONE: (410) 841-1001

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

MS. KIMBERLY TRAN
 ASSISTANT DISTRICT ENGINEER - TRAFFIC
 PHONE: (410) 841-1019

MR. ROBERT SNYDER
 ASSISTANT DIVISION CHIEF - TRAFFIC OPERATIONS
 (410) 787-7630

MR. JOHN S. MAYS
 UTILITY ENGINEER
 PHONE: (410) 841-1039

MR. ED RODENHIZER
 TEAM LEADER SIGNAL OPERATIONS
 (410) 787-7650

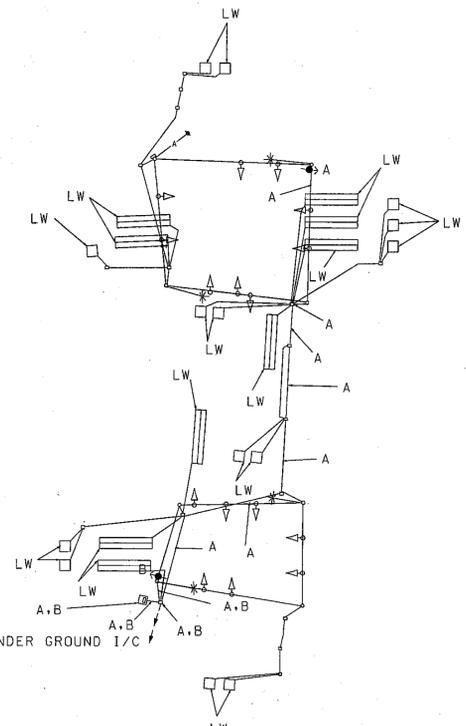
MR. EUGENE BAILEY
 TEAM LEADER SIGN OPERATIONS
 (410) 787-7676

SUPPLY OFFICER IV
 (SIGNAL SHOP WAREHOUSE)
 (410) 787-7668

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	G	G	G	G	R	R
1 + 5 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R
OLA	R	R	R	R	R	G	G	G	G	G	R	R	R	R	R	R
OLA CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	R	R	R	R	R	R
OLB	G	G	G	G	R	R	R	R	R	R	Y	R	R	R	R	R
OLB CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	Y	R	R	R	R	R
PHASE 2 + 6	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R
2 + 6 CHANGE	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y
PHASE 4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R									

PRE-EMPTION PHASE 1	R	R	R	R	R	R	R	R	R	G	G	G	R	R	R	R	G	G
PHASE 1 CHANGE	R	R	R	R	R	R	R	R	R	Y	Y	Y	R	R	R	R	Y	Y

PRE-EMPTION PHASE 2	R	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R
PHASE 2 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R



WIRING KEY

- A, B } - 4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 20 A.W.G.)
- LW - LOOP WIRE
- ES - EXISTING OVERHEAD ELECTRICAL SERVICE
- + - 3/4 IN. x 10 FT. GROUND ROD
- LW - LOOP DETECTORS

CH# 0220AK01.24 & 0220AK01.31

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
 Office of Traffic & Safety
 TRAFFIC ENGINEERING DESIGN DIVISION
 MD 100 and Oakwood Road Interchange
 Ramps 2 & 3
 HANOVER, MARYLAND

DRAWN BY: <u>CD</u>	F.A.P. NO.: <u>N/A</u>	TS NO. <u>TS-3277C & 3278C</u>	SHEET NO. <u>2 OF 2</u>
CHECKED BY: <u>SA</u>	S.H.A. NO.: <u>XX1065485</u>	T.J.M.S. NO. <u>F757</u>	
SCALE: <u>N/A</u>	COUNTY: <u>ANNE ARUNDEL</u>		
DATE: <u>04/2004</u>	LOG MILE: <u>0220AK01.24 & 0220AK01.31</u>		

CE
 CENTURY ENGINEERING, INC.
 CONSULTING ENGINEERS - PLANNERS
 32 WEST ROAD
 TOWSON, MARYLAND 21284