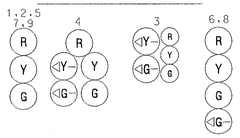
MD 228 IS CONSIDERED TO RUN IN
AN EAST-WEST DIRECTION.

PROJECT DESCRIPTION

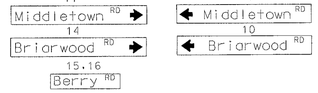
THIS PROJECT INVOLVES THE INSTALLATION OF OPTICOM PRE-EMPTION FOR NORTH BOUND MIDDLETOWN ROAD.

EXISTING SIGNALS



12
LEFT TURN YIELD ON GREEN

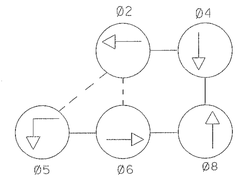
EXISTING SIGNS

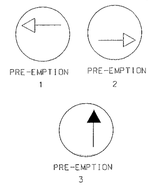


EXISTING OPTICOM EYE

PROPOSED OPTICOM EYE

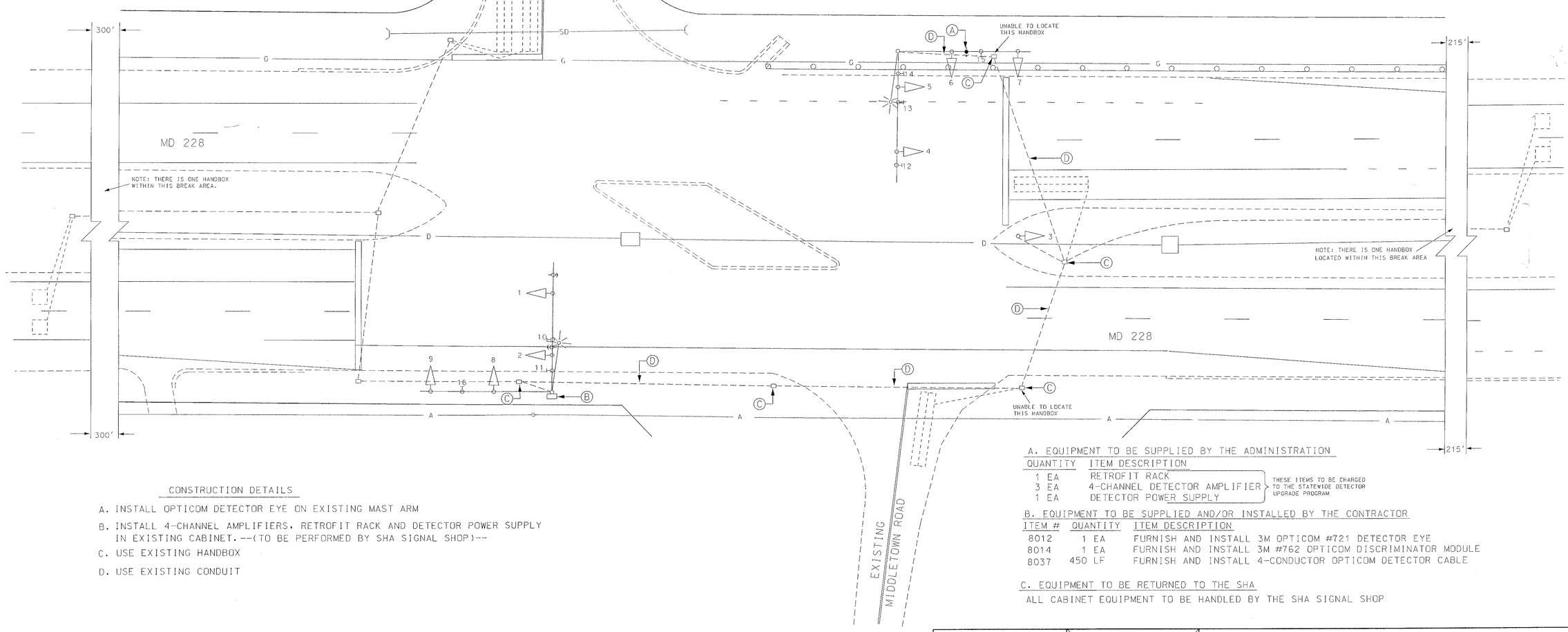
NEMA PHASING





FLASHING OPERATION

PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM

B. INSTALL 4-CHANNEL AMPLIFIERS, RETROFIT RACK AND DETECTOR POWER SUPPLY IN EXISTING CABINET. --(TO BE PERFORMED BY SHA SIGNAL SHOP)--

C. USE EXISTING HANDBOX

D. USE EXISTING CONDUIT

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

QUANTITY	ITEM DESCRIPTION	
1 EA	RETROFIT RACK	THESE ITEMS TO BE CHARGED TO THE STATEWIDE DETECTOR UPGRADE PROGRAM
3 EA	4-CHANNEL DETECTOR AMPLIFIER	
1 EA	DETECTOR POWER SUPPLY	

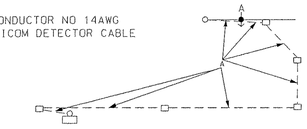
B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM #	QUANTITY	ITEM DESCRIPTION
8012	1 EA	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8014	1 EA	FURNISH AND INSTALL 3M #762 OPTICOM DISCRIMINATOR MODULE
8037	450 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM DETECTOR CABLE

C. EQUIPMENT TO BE RETURNED TO THE SHA

ALL CABINET EQUIPMENT TO BE HANDLED BY THE SHA SIGNAL SHOP

A 4-CONDUCTOR NO 14AWG OPTICOM DETECTOR CABLE



UTILITY LEGEND

G — G	GAS MAIN
W — W	WATER MAIN
S — S	SEWER MAIN
E — E	ELECTRIC CABLES
A — A	AERIAL CABLES
T — T	TELEPHONE CABLES

REVISIONS	APPROVALS
Ⓐ INSTALL OPTICOM NB MIDDLETOWN RD 6/01 TIMS# E198 CJS	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 228 @ Middletown Rd/Briarwood Rd

DRAWN BY: WM	F.A.P. NO.		TS NO. 3304-B	SHEET NO. 5 OF 6
CHECKED BY: N/A	S.H.A. NO.	CH634A54/B54		
SCALE: 1:20	COUNTY:	CHARLES	T.I.M.S. NO. N/A	
DATE: FEBRUARY 1993	LOG MILE:	08022807.43		