MD 787 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS

EXISTING SIGNS

17A,17B
Flower Ave
D3-2
12" X Var
Dual Faced

PROPOSED EQUIPMENT

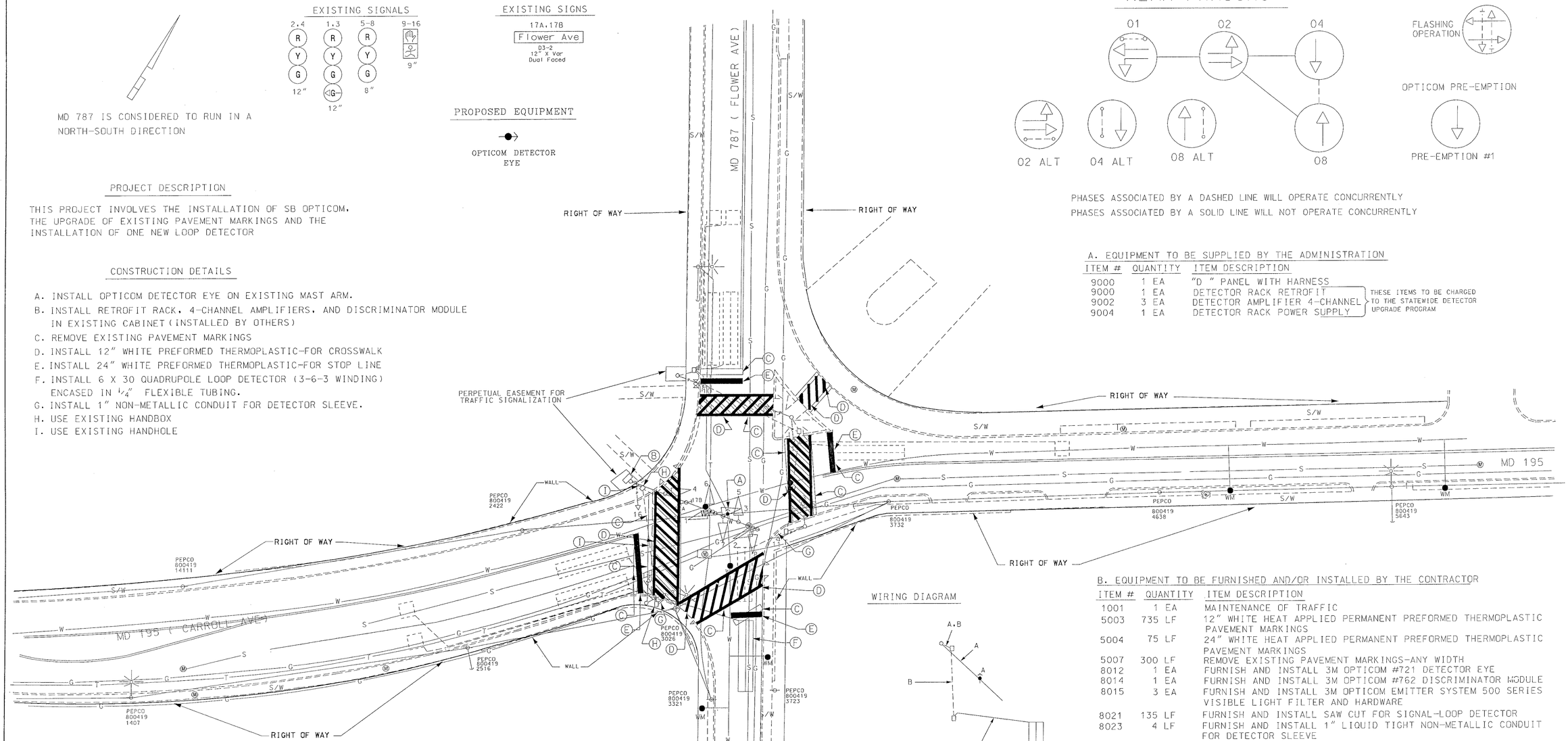
OPTICOM DETECTOR EYE

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF SB OPTICOM, THE UPGRADE OF EXISTING PAVEMENT MARKINGS AND THE INSTALLATION OF ONE NEW LOOP DETECTOR

CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM.
B. INSTALL RETROFIT RACK, 4-CHANNEL AMPLIFIERS, AND DISCRIMINATOR MODULE IN EXISTING CABINET (INSTALLED BY OTHERS)
C. REMOVE EXISTING PAVEMENT MARKINGS
D. INSTALL 12" WHITE PREFORMED THERMOPLASTIC-FOR CROSSWALK
E. INSTALL 24" WHITE PREFORMED THERMOPLASTIC-FOR STOP LINE
F. INSTALL 6 X 30 QUADRUPOLE LOOP DETECTOR (3-6-3 WINDING) ENCASED IN 1/4" FLEXIBLE TUBING.
G. INSTALL 1" NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
H. USE EXISTING HANDBOX
I. USE EXISTING HANDHOLE



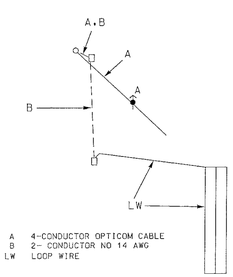
NEMA PHASING

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

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM #	QUANTITY	ITEM DESCRIPTION	
9000	1 EA	"D " PANEL WITH HARNESS	
9000	1 EA	DETECTOR RACK RETROFIT	THESE ITEMS TO BE CHARGED TO THE STATEWIDE DETECTOR UPGRADE PROGRAM
9002	3 EA	DETECTOR AMPLIFIER 4-CHANNEL	
9004	1 EA	DETECTOR RACK POWER SUPPLY	

WIRING DIAGRAM



A 4-CONDUCTOR OPTICOM CABLE
B 2- CONDUCTOR NO 14 AWG
LW LOOP WIRE

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

ITEM #	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5003	735 LF	12" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5004	75 LF	24" WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	300 LF	REMOVE EXISTING PAVEMENT MARKINGS-ANY WIDTH
8012	1 EA	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8014	1 EA	FURNISH AND INSTALL 3M OPTICOM #762 DISCRIMINATOR MODULE
8015	3 EA	FURNISH AND INSTALL 3M OPTICOM EMITTER SYSTEM 500 SERIES VISIBLE LIGHT FILTER AND HARDWARE
8021	135 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL-LOOP DETECTOR
8023	4 LF	FURNISH AND INSTALL 1" LIQUID TIGHT NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8037	75 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM DETECTOR CABLE
8040	510 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO 14 AWG)
8042	52 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR NO 14 AWG

GENERAL NOTES

1. LOOPS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF THE PAVEMENT MARKINGS.
2. UTILITIES SHOWN ARE SCHEMATIC ONLY, AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES AND NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF HE BELIEVES THAT A CONFLICT MAY EXIST.

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

A INSTALL OPTICOM FOR SB MD 787 REPLACE CROSSWALKS AND STOPLINES 11/00 TIMS# E139
CJS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 787 (Flower Ave) @ MD 195 (Carroll Ave)

DRAWN BY: H. Killian	F.A.P. NO.	TS NO. 1772	SHEET NO. 1 OF 1
CHECKED BY: S. Renzi	S.H.A. NO. M0857A5K BSK		
SCALE: 1:20	COUNTY: Montgomery	T.I.M.S. NO.	
DATE: 9/30/83	LOG MILE: 15019501.16		