CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE ON EXISTING MAST ARM AS SHOWN
B. INSTALL DISCRIMINATOR MODULE IN EXISTING BASE MOUNTED CONTROLLER
C. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (3-6-3 WINDING)
D. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
E. SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR CABLE IN HANDHOLE

EXISTING SIGNS

15,16 — Eleventh ST — D3-1 DUAL FACE SIGN (VAR, X 16")

17,18 — Eleventh ST — D3-1 DUAL FACE SIGN (VAR, X 16")

19,20 — S1-1 (36" X 36") M5-2 (21" X 15")

EXISTING SIGNALS

1,2,3,4,6,7,9,10 — R Y G — 12"

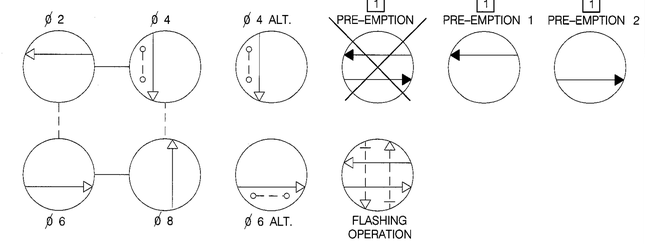
5,8 — R Y G — 8"

11,12,13,14 — 12"

PROPOSED OPTICOM DETECTOR EYE

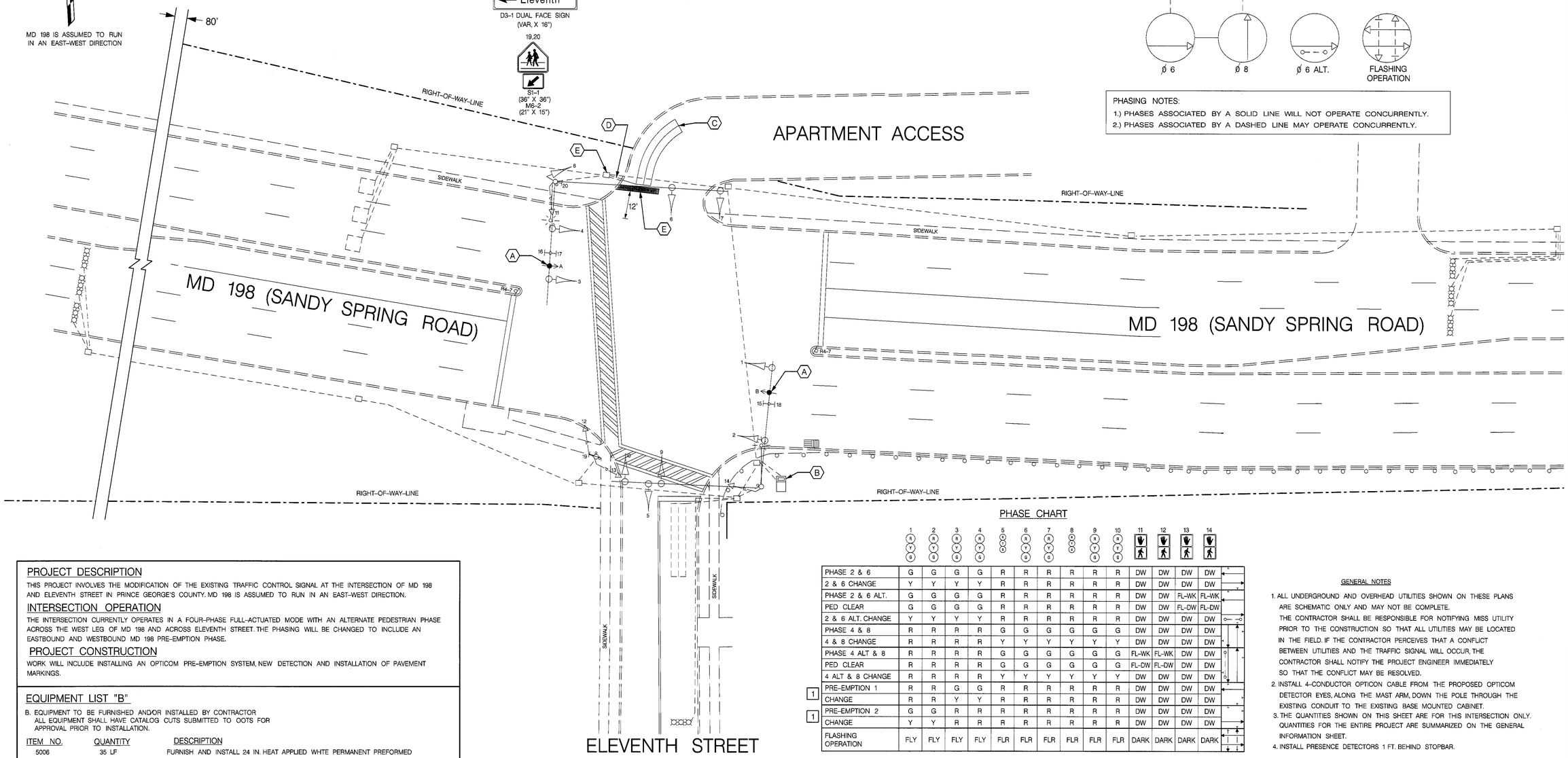
A,B

NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 198 AND ELEVENTH STREET IN PRINCE GEORGE'S COUNTY. MD 198 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A FOUR-PHASE FULL-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE ACROSS THE WEST LEG OF MD 198 AND ACROSS ELEVENTH STREET. THE PHASING WILL BE CHANGED TO INCLUDE AN EASTBOUND AND WESTBOUND MD 198 PRE-EMPTION PHASE.

PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING AN OPTICOM PRE-EMPTION SYSTEM, NEW DETECTION AND INSTALLATION OF PAVEMENT MARKINGS.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
5006	35 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING
8045	10 LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8059	1 EA	FURNISH AND INSTALL DISCRIMINATOR MODULE, 4 CHANNEL, NO. 764
8061	2 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8079	380 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
8088	430 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8089	110 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 2 & 6	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 & 6 ALT.	G	G	G	G	R	R	R	R	R	R	DW	DW	FL-WK	FL-WK
PED CLEAR	G	G	G	G	R	R	R	R	R	R	DW	DW	FL-DW	FL-DW
2 & 6 ALT. CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	R	R	R	R	G	G	G	G	G	G	DW	DW	DW	DW
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT & 8	R	R	R	R	G	G	G	G	G	G	FL-WK	FL-WK	DW	DW
PED CLEAR	R	R	R	R	G	G	G	G	G	G	FL-DW	FL-DW	DW	DW
4 ALT & 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
[1] PRE-EMPTION 1	R	R	G	G	R	R	R	R	R	R	DW	DW	DW	DW
[1] CHANGE	R	R	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
[1] PRE-EMPTION 2	G	G	R	R	R	R	R	R	R	R	DW	DW	DW	DW
[1] CHANGE	Y	Y	R	R	R	R	R	R	R	R	DW	DW	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	DARK	DARK	DARK	DARK

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. INSTALL 4-CONDUCTOR OPTICON CABLE FROM THE PROPOSED OPTICOM DETECTOR EYES, ALONG THE MAST ARM, DOWN THE POLE THROUGH THE EXISTING CONDUIT TO THE EXISTING BASE MOUNTED CABINET.
3. THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.
4. INSTALL PRESENCE DETECTORS 1 FT. BEHIND STOPBAR.

RED-LINE REVISION [1]
3-14-05
REVISED PRE-EMPTION PHASING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473 EMAIL: TRACONCEPT@AOL.COM

REVISIONS

B	INSTALL OPTICOM PRE-EMPTION			
9/23/2004		SHA NO. AT645195		
MO	TZ			
C	RECONSTRUCT SIGNAL AND SYSTEMIZATION			
6/1996				
MAR			BRK	TH

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 198 (SANDY SPRING ROAD) AND ELEVENTH STREET

DRAWN BY:	S.A.	F.A.P. NO.	N/A	TS NO.	SHEET NO.
CHECKED BY:	R.D.	S.H.A. NO.	AW 113A59/859	170-D	
SCALE:	1" = 20'	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO.	
DATE:	6-1991	LOG MILE:	16019802.51	G492	4 OF 11

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