EXISTING SIGNS

19,21 — LEFT ON GREEN ARROW ONLY — R10-5 24"x 18"

25,30 — ONLY — R3-5L 30"x 36"

26 — Laurel-Bowie Rd — D3-2 (DUAL-FACED) VARIABLE X 16"

23 — SOUTH / MARYLAND 197 — M3-3 24"x 12", M1-5 30"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 30" x 51"

24 — NORTH / MARYLAND 197 — M3-1 30"x 15", M1-5 48"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 48" x 75"

28 — SOUTH / MARYLAND 197 — M3-3 30"x 15", M1-5 48"x 36", M6-1 30"x 24" — ASSOCIATED SHIELD ASSEMBLY 48" x 75"

27 — NORTH / MARYLAND 197 — M3-1 24"x 12", M1-5 30"x 24", M6-1 21"x 15" — ASSOCIATED SHIELD ASSEMBLY 30" x 51"

NOTE: MD 197 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

EXISTING SIGNS TO BE REMOVED

20 — ⇦ Montpelier Dr / Brockridge Rd ⇨ — D3-2 VARIABLE X 32"

22 — ⇦ Brockridge Rd / Montpelier Dr ⇨ — D3-2 VARIABLE X 32"

PROPOSED SIGNS

20 — ⇦ Montpelier Dr / Brockridge Rd ⇨ — D3-2 VARIABLE X 32"

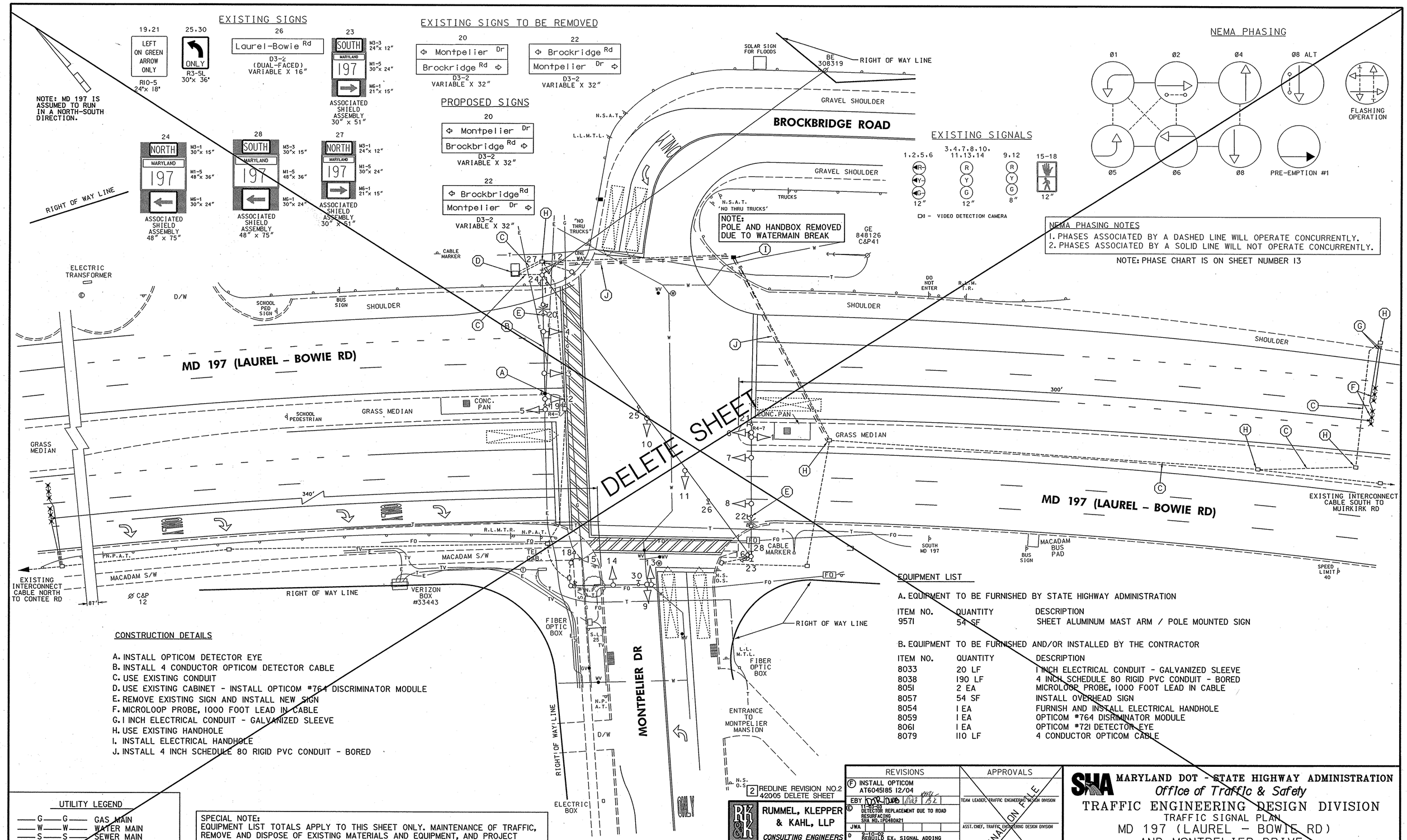
22 — ⇦ Brockridge Rd / Montpelier Dr ⇨ — D3-2 VARIABLE X 32"

NEMA PHASING

EXISTING SIGNALS

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

NOTE: PHASE CHART IS ON SHEET NUMBER 13



CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE
B. INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE
C. USE EXISTING CONDUIT
D. USE EXISTING CABINET - INSTALL OPTICOM #764 DISCRIMINATOR MODULE
E. REMOVE EXISTING SIGN AND INSTALL NEW SIGN
F. MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
G. 1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
H. USE EXISTING HANDHOLE
I. INSTALL ELECTRICAL HANDHOLE
J. INSTALL 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9571	54 SF	SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN

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

ITEM NO.	QUANTITY	DESCRIPTION
8033	20 LF	1 INCH ELECTRICAL CONDUIT - GALVANIZED SLEEVE
8038	190 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8051	2 EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8057	54 SF	INSTALL OVERHEAD SIGN
8054	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8059	1 EA	OPTICOM #764 DISRIMINATOR MODULE
8061	1 EA	OPTICOM #721 DETECTOR EYE
8079	110 LF	4 CONDUCTOR OPTICOM 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

SPECIAL NOTE:
EQUIPMENT LIST TOTALS APPLY TO THIS SHEET ONLY. MAINTENANCE OF TRAFFIC, REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT, AND PROJECT TOTALS FOR ALL OTHER ITEMS ARE SHOWN ON THE GENERAL INFORMATION SHEET.

2 REDLINE REVISION NO.2 4/2005 DELETE SHEET

RUMMEL, KLEPPER & KAHL, LLP
CONSULTING ENGINEERS
81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TEL: (410) 728-2900 FAX: (410) 383-3270

REVISIONS	APPROVALS
F INSTALL OPTICOM AT6045185 12/04	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
EBY / KWD / 11/23 / BZ	
E 11-14-03 DETECTOR REPLACEMENT DUE TO ROAD RESURFACING SHA NO.:FC480A21	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
JWA	
D 8-10-02 REBUILD EX. SIGNAL ADDING EXCLUSIVE LEFTS ON MD 197. SHA NO.: 1065285	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
RRZ	
C 1-01-94 REVISE POLE LOCATION SHA NO.: AW-680-501-085	DIRECTOR, TRAFFIC & SAFETY
BT	

ORIGINAL ON FILE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNAL PLAN
MD 197 (LAUREL - BOWIE RD)
AND MONTPELIER DRIVE

DRAWN BY: BRUCE THOMPSON	F.A.P. NO.		TS NO. 2546F	SHEET NO.
CHECKED BY:	S.H.A. NO.	AW-680-501-085		
SCALE: 1"= 20'	COUNTY:	PRINCE GEORGES	T.I.M.S. NO. 6493	9 OF 14
DATE: 10-10-83	LOG MILE:	16019712.99		