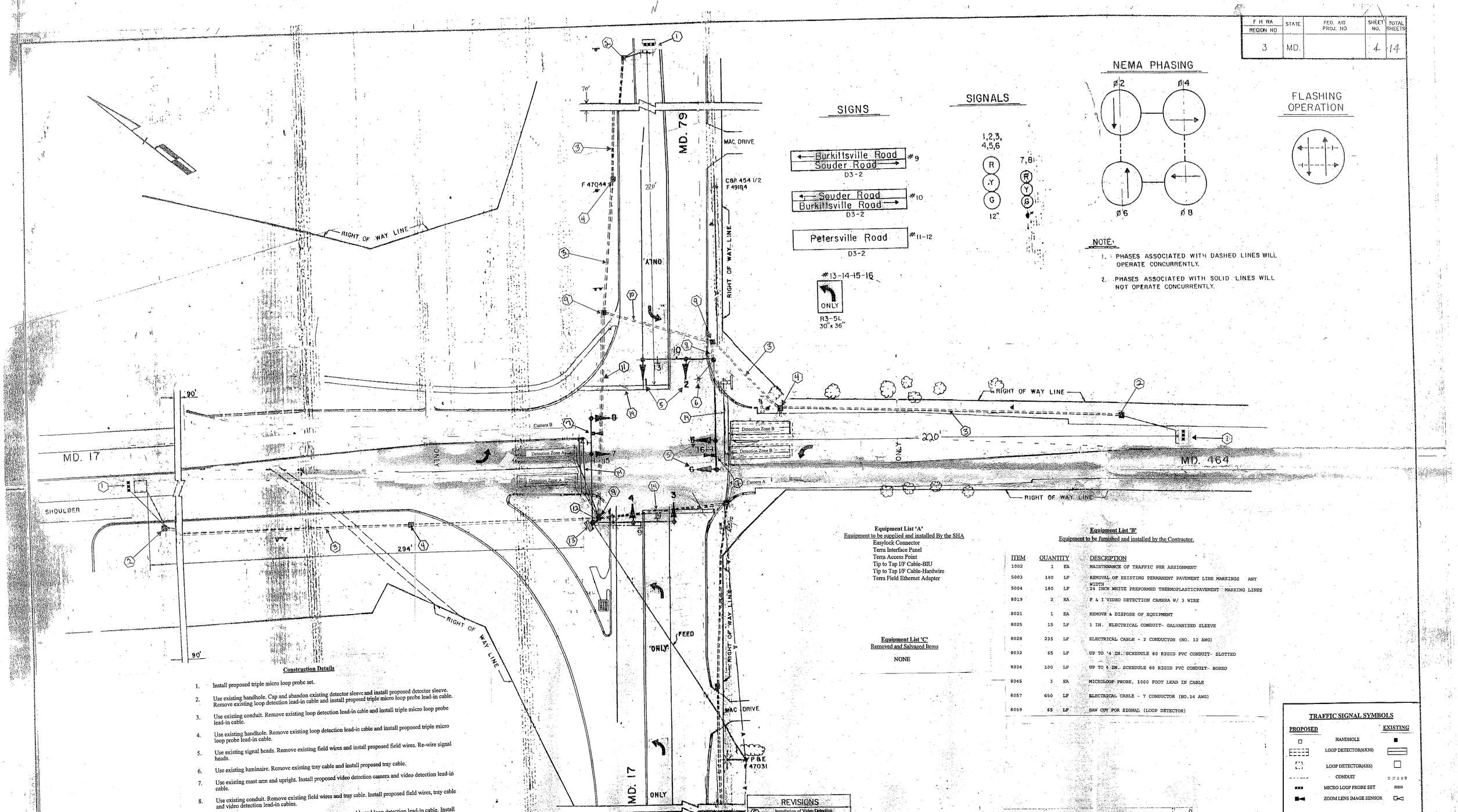
F H WA REGION NO	STATE	FED. AID PROJ. NO	SHEET NO.	TOTAL SHEETS
3	MD.		4	14



NOTE:

1. PHASES ASSOCIATED WITH DASHED LINES WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED WITH SOLID LINES WILL NOT OPERATE CONCURRENTLY.

Equipment List 'A'

Equipment to be supplied and installed By the SHA

- Easylock Connector
- Terra Interface Panel
- Terra Access Point
- Tip to Tap I/F Cable-BIU
- Tip to Tap I/F Cable-Hardwire
- Terra Field Ethernet Adapter

Equipment List 'B'

Equipment to be furnished and installed by the Contractor.

ITEM	QUANTITY		DESCRIPTION
1002	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
5003	180	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
5004	180	LF	24 INCH WHITE PREFORMED THERMOPLASTICPAVEMENT MARKING LINES
8019	2	EA	P & T VIDEO DETECTION CAMERA W/ 3 WIRE
8021	1	EA	REMOVE & DISPOSE OF EQUIPMENT
8025	15	LF	1 IN. ELECTRICAL CONDUIT- GALVANIZED SLEEVE
8028	235	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)
8032	65	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED
8034	100	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT- BORED
8045	3	EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8057	650	LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)
8059	65	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

Equipment List 'C'

Removed and Salvaged Items

NONE

Construction Details

1. Install proposed triple micro loop probe set.
2. Use existing handhole. Cap and abandon existing detector sleeve and install proposed detector sleeve. Remove existing loop detection lead-in cable and install proposed triple micro loop probe lead-in cable.
3. Use existing conduit. Remove existing loop detection lead-in cable and install triple micro loop probe lead-in cable.
4. Use existing handhole. Remove existing loop detection lead-in cable and install proposed triple micro loop probe lead-in cable.
5. Use existing signal heads. Remove existing field wires and install proposed field wires. Re-wire signal heads.
6. Use existing luminaire. Remove existing tray cable and install proposed tray cable.
7. Use existing mast arm and upright. Install proposed video detection camera and video detection lead-in cable.
8. Use existing conduit. Remove existing field wires and tray cable. Install proposed field wires, tray cable and video detection lead-in cables.
9. Use existing handhole. Remove existing field wires, tray cable and loop detection lead-in cable. Install proposed field wires, and tray, video detection and triple micro loop probe lead-in cables.
10. Install 4 inch schedule 80 PVC (slotted in road). Install proposed field wires and tray, video detection and triple micro loop probe lead-in cables.
11. Install 4 inch schedule 80 PVC (bored). Install proposed field wires and tray, video detection and triple micro loop probe lead-in cables.
12. Use existing conduit. Install proposed field wires and tray, video detection and triple micro loop probe lead-in cables.
13. Use existing controller cabinet. Remove existing loop detector lead-in cables for phases 2, 4 & 8. Install proposed field wires and tray, video detection and triple micro loop probe lead-in cables. TOD personnel will install and program video detection interface equipment and re-tune amplifiers after completion of proposed detection work.
14. Remove existing stop bar and replace in accordance to SHA Standards.

TRAFFIC SIGNAL SYMBOLS

PROPOSED		EXISTING
	HANDHOLE	
	LOOP DETECTOR(6X30)	
	LOOP DETECTOR(6X6)	
	CONDUIT	
	MICRO LOOP PROBE SET	
	ZOOM LENS IMAGE SENSOR	

LEGEND OF UNDERGROUND UTILITIES

G	G	GAS MAIN
W	W	WATER MAIN
S	S	SEWER MAIN
E	E	ELECTRIC CABLES
T	T	TELEPHONE CABLES
A	A	AERIAL CABLES
SD	SD	STORM DRAIN

REVISIONS

(E) Installation of Video Detection OT 2010 - 23855T 25110 K-785 04/2010 - 27861T 10006 SHA MCO

(D) Replace loop detectors 9/98 SHA # AW 95A231 MMC: WAB 1763

(C) 12-6-88 MOD. SIGNAL EQUIP. DUE TO WIDENING SHA No. F-191-501-785 R.W.H.

B 5-12-88 UPGRADE I.C.B. TO ACT. SIGNAL C.S.C.

A 12-12-77 AS BUILT J.G.

PREPARED BY

CENTURY ENGINEERING, INC.
CONSULTING ENGINEERS-PLANNERS
TOWSON, MARYLAND 21204

APPROVALS

ORIGINAL ON FILE

CHIEF, SIGNAL DESIGN SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, BUREAU OF TRAFFIC ENGINEERING

DEPUTY CHIEF ENGINEER, OFFICE OF TRAFFIC

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION – OFFICE OF TRAFFIC
BUREAU OF TRAFFIC ENGINEERING

DRAWN BY J. GORDON
DES. BY: J. GORDON
CHK. BY: A. BUDNICHUK
DATE: 2-19-76
SCALE: 1" = 20'
F.A.P. NO. N/A
S.H.A. NO.

MD. 17, MD. 79 AND MD. 464
(ROSEMONT, MD.)
COUNTY: FREDERICK

TS/FILE NO. 1400C

SHEET NO. 4 OF 14

TS 10502