F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

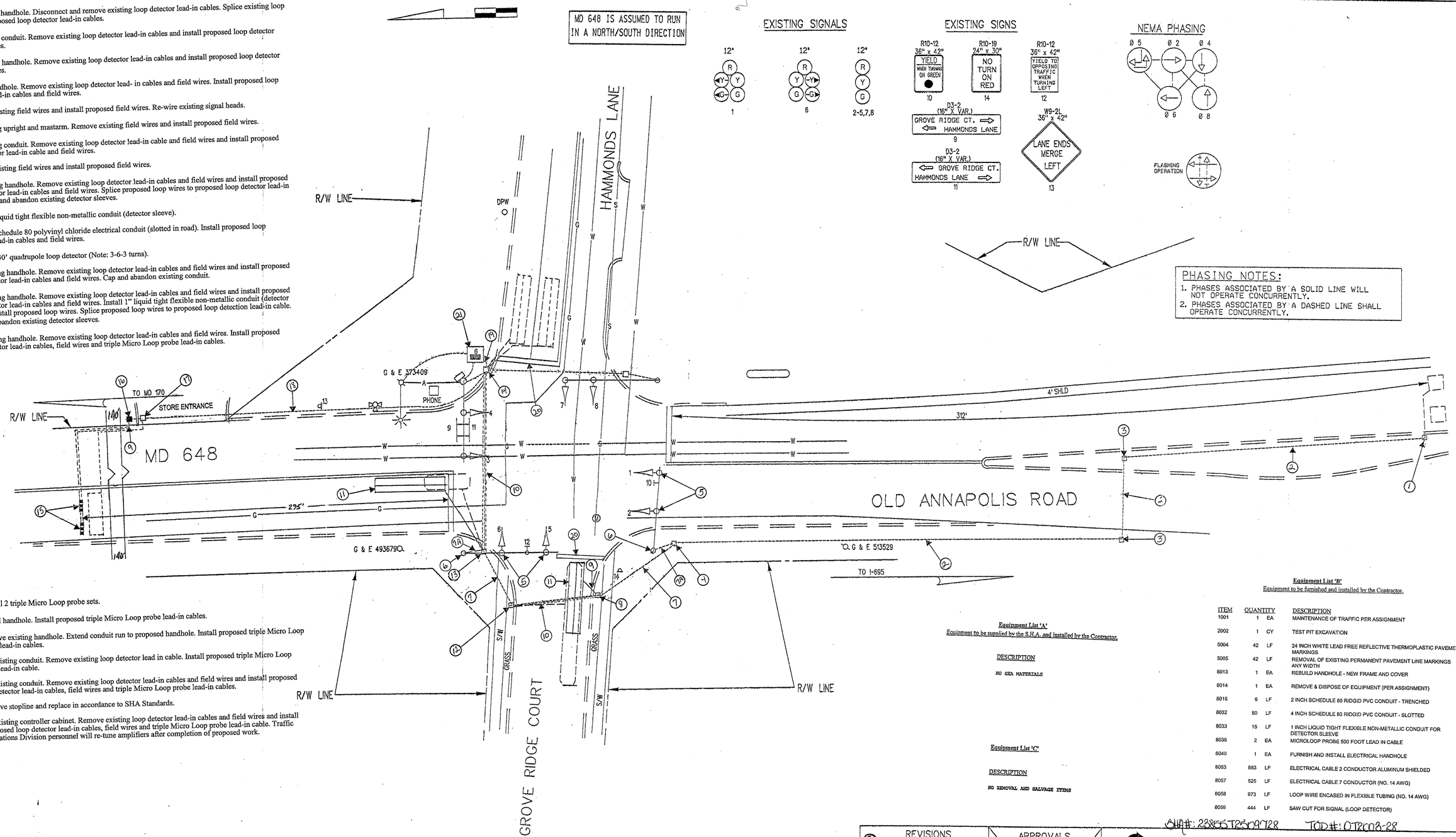
Construction Details

1. Use existing handhole. Disconnect and remove existing loop detector lead-in cables. Splice existing loop wires to proposed loop detector lead-in cables.
2. Use existing conduit. Remove existing loop detector lead-in cables and install proposed loop detector lead-in cables.
3. Use existing handhole. Remove existing loop detector lead-in cables and install proposed loop detector lead-in cables.
4. Rebuild handhole. Remove existing loop detector lead- in cables and field wires. Install proposed loop detector lead-in cables and field wires.
5. Remove existing field wires and install proposed field wires. Re-wire existing signal heads.
6. Use existing upright and mastarm. Remove existing field wires and install proposed field wires.
7. Use existing conduit. Remove existing loop detector lead-in cable and field wires and install proposed loop detector lead-in cable and field wires.

7a. Remove existing field wires and install proposed field wires.

8. Use existing handhole. Remove existing loop detector lead-in cables and field wires and install proposed loop detector lead-in cables and field wires. Splice proposed loop wires to proposed loop detector lead-in cable. Cap and abandon existing detector sleeves.
9. Install 1" liquid tight flexible non-metallic conduit (detector sleeve).
10. Install 4" schedule 80 polyvinyl chloride electrical conduit (slotted in road). Install proposed loop detector lead-in cables and field wires.
11. Install 6'x30' quadrupole loop detector (Note: 3-6-3 turns).
12. Use existing handhole. Remove existing loop detector lead-in cables and field wires and install proposed loop detector lead-in cables and field wires. Cap and abandon existing conduit.
13. Use existing handhole. Remove existing loop detector lead-in cables and field wires and install proposed loop detector lead-in cables and field wires. Install 1" liquid tight flexible non-metallic conduit (detector sleeve). Install proposed loop wires. Splice proposed loop wires to proposed loop detection lead-in cable. Cap and abandon existing detector sleeves.
14. Use existing handhole. Remove existing loop detector lead-in cables and field wires. Install proposed loop detector lead-in cables, field wires and triple Micro Loop probe lead-in cables.

MD 648 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION



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

15. Install 2 triple Micro Loop probe sets.
16. Install handhole. Install proposed triple Micro Loop probe lead-in cables.
17. Remove existing handhole. Extend conduit run to proposed handhole. Install proposed triple Micro Loop probe lead-in cables.
18. Use existing conduit. Remove existing loop detector lead in cable. Install proposed triple Micro Loop probe lead-in cable.
19. Use existing conduit. Remove existing loop detector lead-in cables and field wires and install proposed loop detector lead-in cables, field wires and triple Micro Loop probe lead-in cables.
20. Remove stopline and replace in accordance to SHA Standards.
21. Use existing controller cabinet. Remove existing loop detector lead-in cables and field wires and install proposed loop detector lead-in cables, field wires and triple Micro Loop probe lead-in cable. Traffic operations Division personnel will re-tune amplifiers after completion of proposed work.

Equipment List 'A'
Equipment to be supplied by the S.H.A. and installed by the Contractor.

DESCRIPTION

NO SHA MATERIALS

Equipment List 'B'
Equipment to be furnished and installed by the Contractor.

ITEM	QUANTITY		DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	1	CY	TEST PIT EXCAVATION
5004	42	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	42	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH
8013	1	EA	REBUILD HANDHOLE - NEW FRAME AND COVER
8014	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8016	6	LF	2 INCH SCHEDULE 80 RIDGID PVC CONDUIT - TRENCHED
8032	80	LF	4 INCH SCHEDULE 80 RIDGID PVC CONDUIT - SLOTTED
8033	15	LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8036	2	EA	MICROLOOP PROBE 500 FOOT LEAD IN CABLE
8040	1	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8053	883	LF	ELECTRICAL CABLE 2 CONDUCTOR ALUMINUM SHIELDED
8057	525	LF	ELECTRICAL CABLE 7 CONDUCTOR (NO. 14 AWG)
8058	973	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)
8059	444	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

Equipment List 'C'

DESCRIPTION

NO REMOVAL AND SALVAGE ITEMS

SHA#: 23855TR3009128 TOD#: OTR008-28

UTILITY LEGEND

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

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

TRAFFIC SIGNAL SYMBOLS

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

REVISIONS

C REPLACE CONTROLLER AND CABINET
ADD PHONE DROP
LSS EBA/MSM 10/03 FBK
D Replace failed loop detectors
Repair conduit runs
Rewire signals
09/04

APPROVALS

ASST. DIVISION CHIEF, TEDD
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 648 AND
HAMMONDS LA./GROVE RIDGE COURT

LOGMILE #: 0268480 6.66 DATE / /

DRAWN BY:	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
CHECK BY:	S.H.A. NO. AW1144-5B/BSB	TS 326C	1 OF 6
SCALE: 1" = 20'	COUNTY ANNE ARUNDEL		