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

MD 5 IS ASSUMED TO TRAVEL IN A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

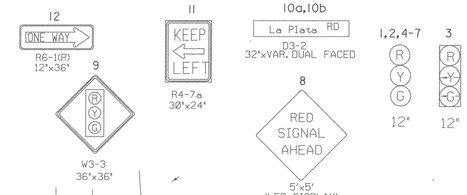
I GENERAL

THIS PROJECT INVOLVES REPLACING THE DETECTION ON THE SOUTHBOUND LANES OF MD 5 AND THE EASTBOUND LANE OF MD. 488 IN CHARLES COUNTY. THIS REVISION IS REQUIRED DUE TO THE RESURFACING PROJECT CH-6075177

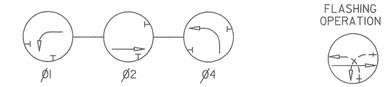
II INTERSECTION OPERATION

THE EXISTING NEMA THREE PHASE, FULL TRAFFIC ACTUATED OPERATION SHALL BE MAINTAINED. UTILIZE ALL UNIDENTIFIED EQUIPMENT WHEN APPLICABLE.

EXISTING SIGNALS & SIGNS



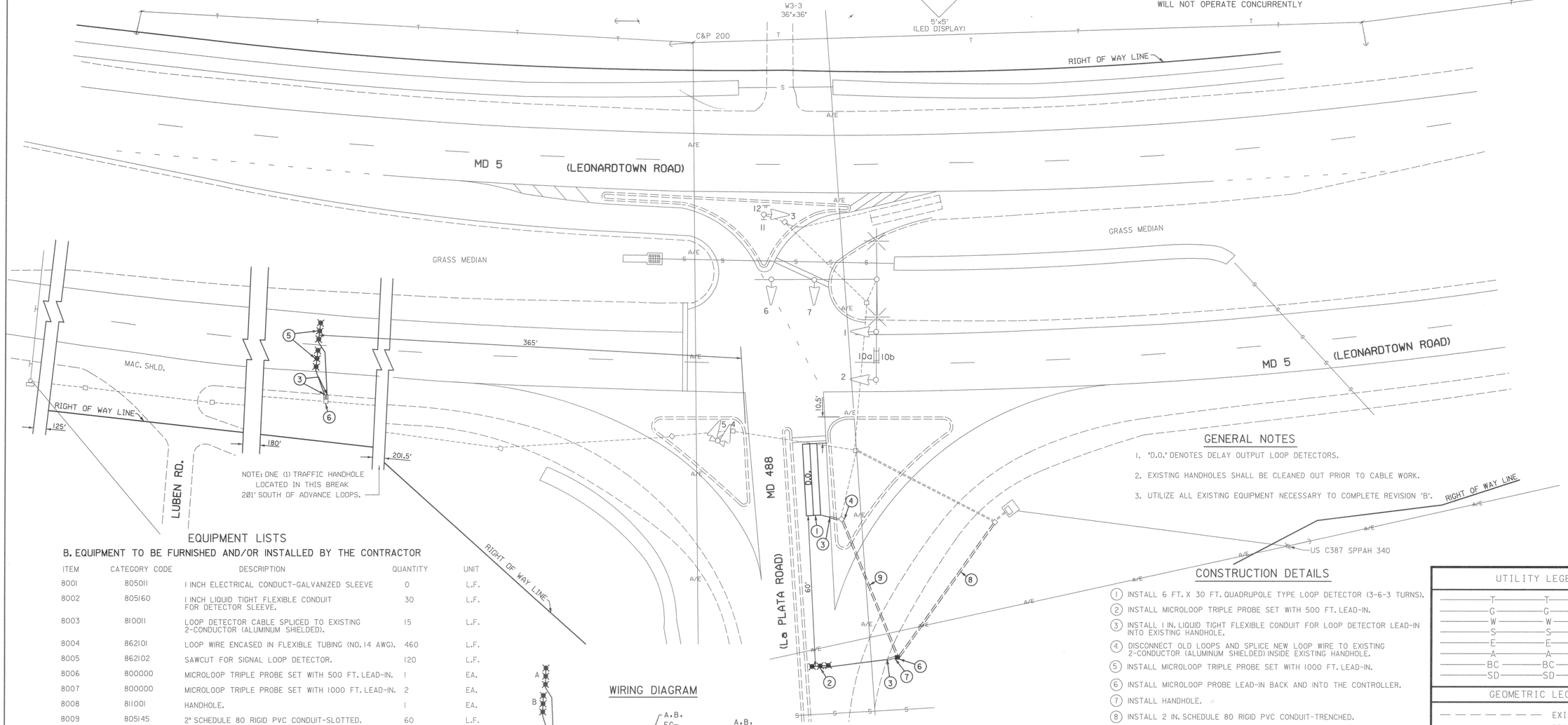
NEMA PHASING



FLASHING OPERATION

PHASING NOTES

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



GENERAL NOTES

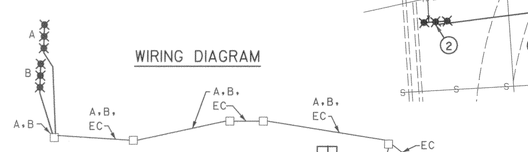
1. "D.O." DENOTES DELAY OUTPUT LOOP DETECTORS.
2. EXISTING HANDHOLES SHALL BE CLEANED OUT PRIOR TO CABLE WORK.
3. UTILIZE ALL EXISTING EQUIPMENT NECESSARY TO COMPLETE REVISION 'B'.

EQUIPMENT LISTS

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

ITEM	CATEGORY CODE	DESCRIPTION	QUANTITY	UNIT
8001	805011	1 INCH ELECTRICAL CONDUCT-GALVANIZED SLEEVE	0	L.F.
8002	805160	1 INCH LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE.	30	L.F.
8003	810011	LOOP DETECTOR CABLE SPLICED TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED).	15	L.F.
8004	862101	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG).	460	L.F.
8005	862102	SAWCUT FOR SIGNAL LOOP DETECTOR.	120	L.F.
8006	800000	MICROLOOP TRIPLE PROBE SET WITH 500 FT. LEAD-IN.	1	EA.
8007	800000	MICROLOOP TRIPLE PROBE SET WITH 1000 FT. LEAD-IN.	2	EA.
8008	811001	HANDHOLE.	1	EA.
8009	805145	2" SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED.	60	L.F.
8010	800000	2" SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED.	65	L.F.

WIRING DIAGRAM



WIRING KEY

A-C – MICROLOOP TRIPLE PROBE SET WITH LEAD-IN

D – SPLICE NEW LOOP WIRE TO EXISTING 2– CONDUCTOR (ALUMINUM SHIELDED) (NO. 14 AWG)

EC – EXISTING CABLE TO CONTROLLER

LW – LOOP WIRE (NO. 14 AWG)

CONSTRUCTION DETAILS

1. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR (3-6-3 TURNS).
2. INSTALL MICROLOOP TRIPLE PROBE SET WITH 500 FT. LEAD-IN.
3. INSTALL 1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR LOOP DETECTOR LEAD-IN INTO EXISTING HANDHOLE.
4. DISCONNECT OLD LOOPS AND SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR (ALUMINUM SHIELDED) INSIDE EXISTING HANDHOLE.
5. INSTALL MICROLOOP TRIPLE PROBE SET WITH 1000 FT. LEAD-IN.
6. INSTALL MICROLOOP PROBE LEAD-IN BACK AND INTO THE CONTROLLER.
7. INSTALL HANDHOLE.
8. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED.
9. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT-SLOTTED.

UTILITY LEGEND

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

GEOMETRIC LEGEND

— — — —	EXISTING GEOMETRICS
———	PROPOSED GEOMETRICS

UTILITY LEGEND

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PHOENIX ENGINEERING, INC.
CONSULTING ENGINEERS
813 MAIDEN CHOICE LANE, SUITE 300
BALTIMORE, MARYLAND 21228
(410) 247-8833 FAX 247-9397

APPROVALS

ASST. DIVISION CHIEF, TEDD

ASST. DISTRICT ENGINEER, TRAFFIC

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

REVISIONS

B. 1/98 REPLACE DETECTION DUE TO RESURFACING CH-6085177

EM / GP

A. AS-BUILT CH-599-501-585

STS

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNALIZATION PLAN

MD. 5 & MD. 488

SIGNAL NO.: 08000506.78

DRAWN BY:	ALLEN / PETERS	F.A.P. NO.		PLAN SHEET NO.:	SHEET NO.
CHECK BY:	CARLSON	S.H.A. NO.	CH-447X-575	TS-3475B	1 OF 1
SCALE:	1"=20'	COUNTY	CHARLES		

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