

DRILL HOLES

DRILL HOLES

DRILL HOLES



EXISTING SIGNS



EXISTING SIGNS TO BE REMOVED



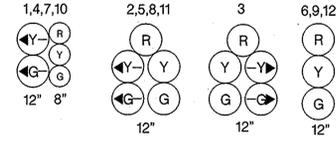
PROPOSED SIGNS



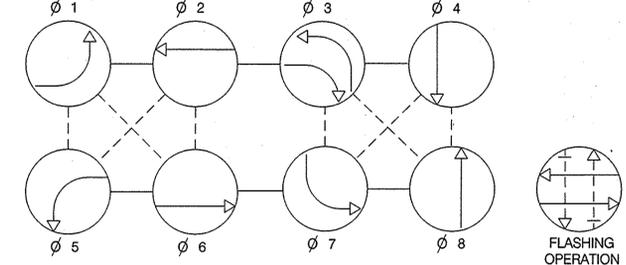
NOTES

1. INSTALL PRESENCE DETECTOR 1 FT. BEHIND STOPBAR.
2. DISCONNECT AND ABANDON NORTHBOUND MD 543 DETECTION.

EXISTING SIGNALS



NEMA PHASING

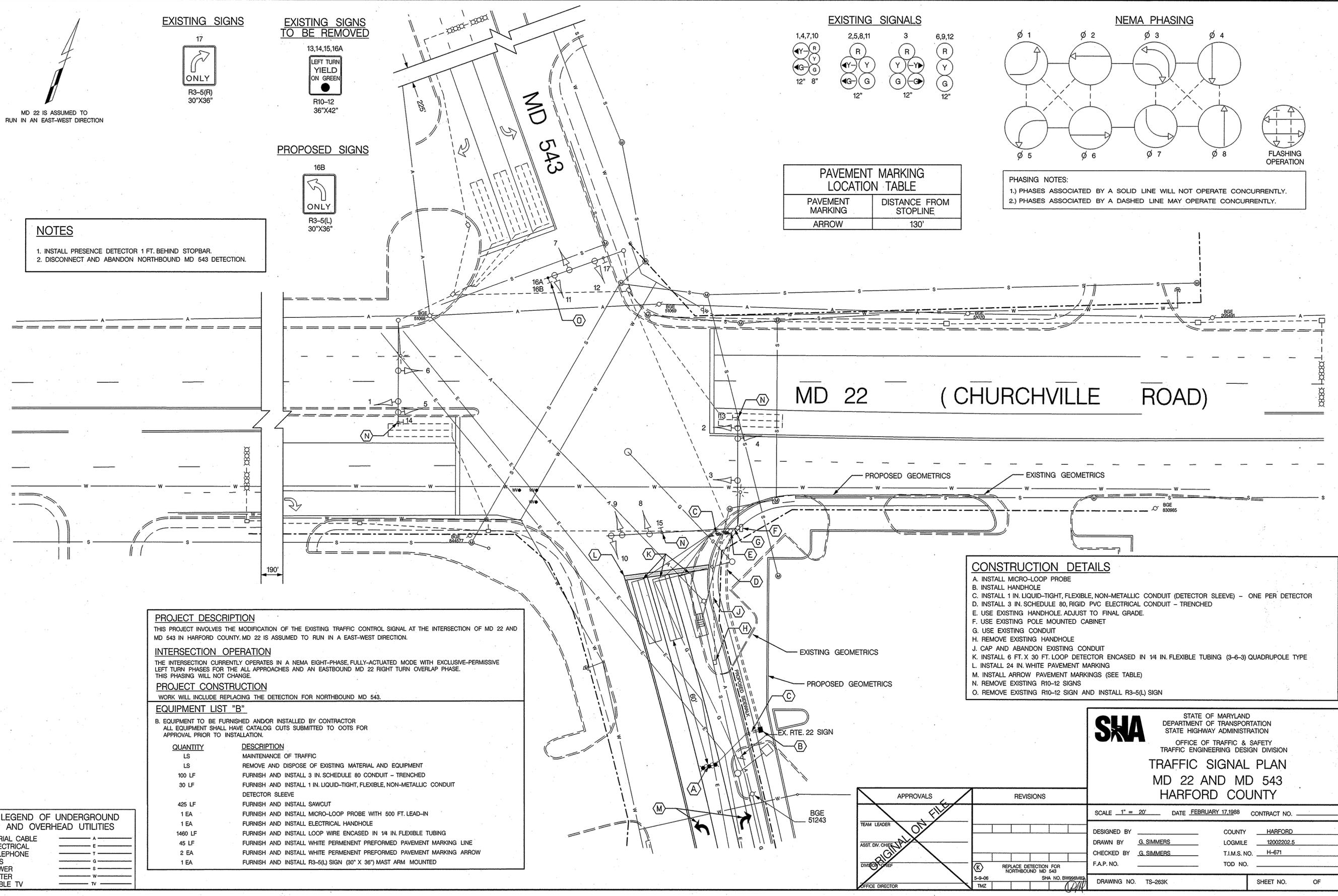


PHASING NOTES:

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

PAVEMENT MARKING LOCATION TABLE

PAVEMENT MARKING	DISTANCE FROM STOPLINE
ARROW	130'



PROJECT DESCRIPTION
THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 22 AND MD 543 IN HARFORD COUNTY. MD 22 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION
THE INTERSECTION CURRENTLY OPERATES IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR THE ALL APPROACHES AND AN EASTBOUND MD 22 RIGHT TURN OVERLAP PHASE. THIS PHASING WILL NOT CHANGE.

PROJECT CONSTRUCTION
WORK WILL INCLUDE REPLACING THE DETECTION FOR NORTHBOUND MD 543.

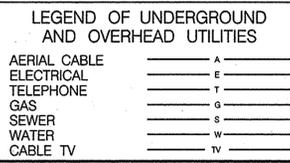
EQUIPMENT LIST "B"

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

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
LS	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
100 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 CONDUIT - TRENCHED
30 LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT DETECTOR SLEEVE
425 LF	FURNISH AND INSTALL SAWCUT
1 EA	FURNISH AND INSTALL MICRO-LOOP PROBE WITH 500 FT. LEAD-IN
1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1460 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING
45 LF	FURNISH AND INSTALL WHITE PERMANENT PREFORMED PAVEMENT MARKING LINE
2 EA	FURNISH AND INSTALL WHITE PERMANENT PREFORMED PAVEMENT MARKING ARROW
1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNTED

CONSTRUCTION DETAILS

- INSTALL MICRO-LOOP PROBE
- INSTALL HANDHOLE
- INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT (DETECTOR SLEEVE) - ONE PER DETECTOR
- INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT - TRENCHED
- USE EXISTING HANDHOLE. ADJUST TO FINAL GRADE.
- USE EXISTING POLE MOUNTED CABINET
- USE EXISTING CONDUIT
- REMOVE EXISTING HANDHOLE
- CAP AND ABANDON EXISTING CONDUIT
- INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING (3-6-3) QUADRUPOLE TYPE
- INSTALL 24 IN. WHITE PAVEMENT MARKING
- INSTALL ARROW PAVEMENT MARKINGS (SEE TABLE)
- REMOVE EXISTING R10-12 SIGNS
- REMOVE EXISTING R10-12 SIGN AND INSTALL R3-5(L) SIGN



APPROVALS	REVISIONS
<p>TEAM LEADER</p> <p>ASST. DIV. CHIEF</p> <p>DIVISION CHIEF</p> <p>OFFICE DIRECTOR</p>	<p>REVISIONS</p> <p>(K) REPLACE DETECTION FOR NORTHBOUND MD 543</p> <p>5-9-06</p> <p>SHA NO. BW9988M2</p> <p>TMZ</p>

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 22 AND MD 543
HARFORD COUNTY

SCALE 1" = 20' DATE FEBRUARY 17, 1998 CONTRACT NO. _____

DESIGNED BY _____ COUNTY HARFORD
DRAWN BY G. SIMMERS LOGMILE 12002202.5
CHECKED BY G. SIMMERS T.I.M.S. NO. H-671
F.A.P. NO. _____ TOD NO. _____

DRAWING NO. TS-263K SHEET NO. _____ OF _____