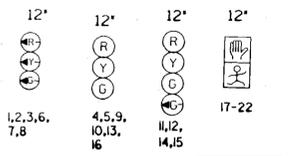
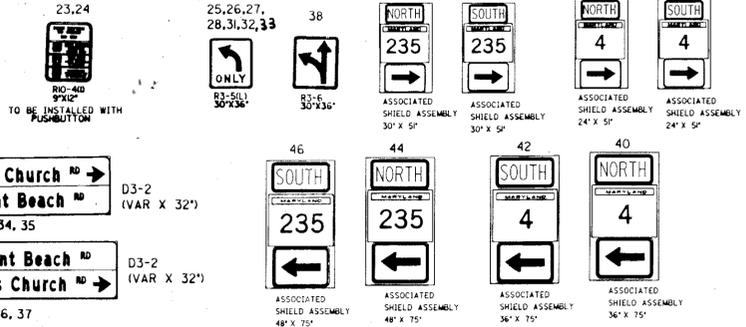


PROPOSED SIGNALS



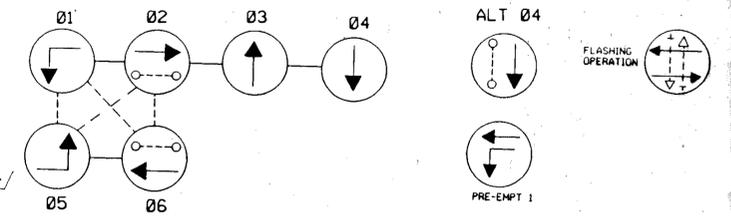
PROPOSED SIGNS



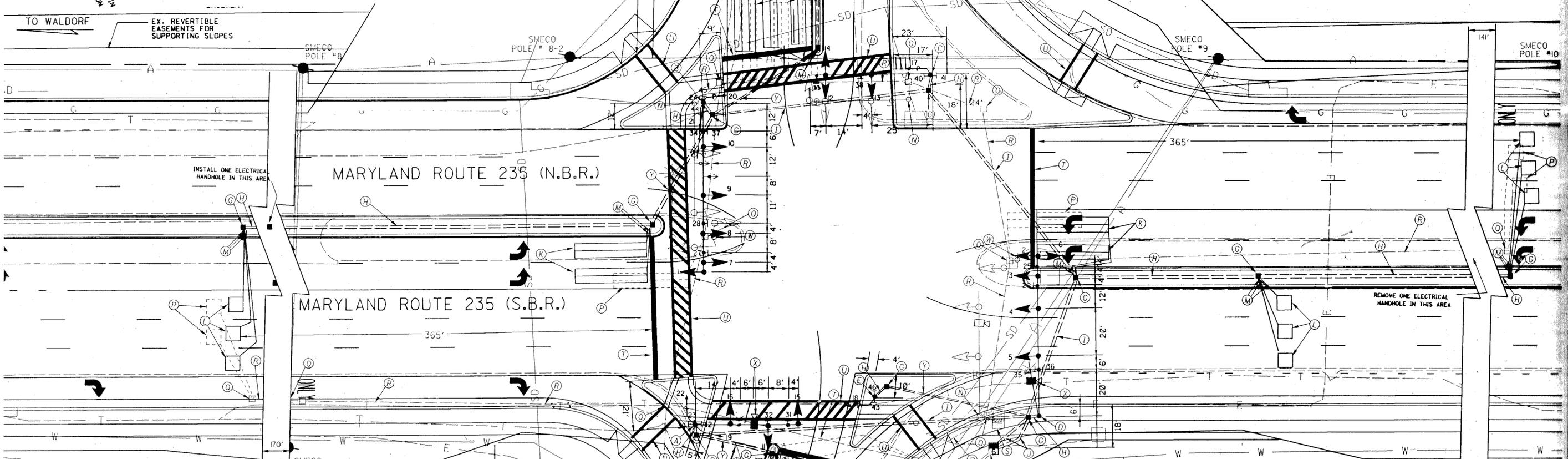
MD 235 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

St. Andrews Church RD
Patuxent Beach RD
34, 35
D3-2 (VAR X 32")
Patuxent Beach RD
St. Andrews Church RD
36, 37
D3-2 (VAR X 32")

NEMA PHASING



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



CONSTRUCTION DETAILS

- A. INSTALL 2" STEEL POLE, 50' MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGN AS SHOWN.
- B. INSTALL 27" STEEL POLE, 70' MAST ARM, SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGN, OPTICOM DETECTOR 20' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOELECTRIC CELL AS SHOWN.
- C. INSTALL 2" STEEL POLE, 50' MAST ARM, SIGNAL HEADS, SIGNS, AND PEDESTRIAN SIGNAL.
- D. INSTALL 27" STEEL POLE, 70' MAST ARM, SIGNAL HEADS, SIGNS, 20' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOELECTRIC CELL AS SHOWN.
- E. INSTALL 10' PEDESTAL POLE AND PEDESTRIAN SIGNAL.
- F. INSTALL BASE-MOUNTED CABINET SIZE # 6 AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN.
- G. INSTALL ELECTRICAL HANDHOLE.
- H. INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- I. INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- J. INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
- K. INSTALL 6"x30" QUADRUPOLE TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/2" FLEXIBLE TUBING.
- L. INSTALL 6"x6" LOOP DETECTOR ENCASED IN 1/2" FLEXIBLE TUBING (4 TURNS).
- M. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
- N. REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGNS, AND FOUNDATION.
- O. ABANDON EXISTING DETECTOR.
- P. REMOVE EXISTING HANDHOLE.
- R. CAP AND ABANDON EXISTING CONDUIT.
- S. REMOVE EXISTING CONTROLLER CABINET AND FOUNDATION.
- T. INSTALL 24" PREFORMED PAVEMENT MARKING TAPE FOR STOP BAR.
- U. INSTALL 12" PREFORMED PAVEMENT MARKING TAPE FOR CROSSWALK. (SEE DETAIL WHERE APPLICABLE)
- V. INSTALL 6" x 20" QUADRUPOLE TYPE (3-6-3) QUEUE DETECTOR ENCASED IN 1/2" FLEXIBLE TUBING.
- W. REMOVE EXISTING PEDESTAL POLE, SIGNALS, AND FOUNDATION.
- X. RELOCATE EXISTING AUTOSCOPE CAMERA AS SHOWN AND REWIRE AS SHOWN ON WIRING DIAGRAM.
- Y. INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
- Z. PROPOSED UNDERGROUND SMECO POWER SERVICE FEED. INSTALL 2 INCH SCH. 80 PVC RISER 10' ON SMECO POLE # 9-25.

GEOMETRICS LEGEND

PROPOSED GEOMETRICS	—————
EXISTING GEOMETRICS	-----

LEGEND OF UTILITIES

WATER	W
GAS	G
UNDERGROUND TELEPHONE	T
SANITARY SEWER	S
UNDERGROUND ELECTRIC	E
AERIAL	A
STORM DRAIN	SD
SEWAGE FORCE MAIN	FM
CABLE TV	TV

NOTES:

- 1) ALL EQUIPMENT TO BE SALVAGED SHALL BECOME PROPERTY OF MARYLAND STATE HIGHWAY ADMINISTRATION (SEE GENERAL INFORMATION SHEET).
- 2) PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY CONTRACTOR IN ACCORDANCE WITH S.H.A. STANDARDS. ALL OTHER PAVEMENT MARKINGS NOT DETAILED ARE FOUND ON SIGNING AND PAVEMENT MARKING PLANS.
- 3) D.O. INDICATES DELAY OUTPUT LOOP DETECTOR.
- 4) ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE FIELD LOCATED. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY.
- 5) FINAL GEOMETRICS AND GRADES SHALL BE CONFIRMED PRIOR TO INSTALLATION OF SIGNAL EQUIPMENT.
- 6) LOOP DETECTORS AND CONDUITS SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.

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21030-1888
(410) 316-7800

REVISIONS	APPROVALS
① 8-98 NEW MD 235 GEOMETRICS SHA NO. SM 7670 PS 10/23/98 ② 9-97 INSTALL CAMERAS SHA NO. SM 7656/95E ③ 8-20-92 ADD 1/2" AND ASBULLY SHA NO. SM 7656/95E ④ 1-97 SPLIT MD 4 PHASING AND ADDED OPTIONAL SB DOUBLE LEFT TURN	ORIGINAL CHIEF, SIGNAL DESIGN SECTION ON ASST. DISTRICT ENGINEER TRAFFIC FILE CHIEF, TRAFFIC ENGINEERING DESIGN SECTION DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION LOG MILE: 18023516.67

MD 235 NORTH OF MD RTE. 4 TO MD RTE. 237 TRAFFIC SIGNAL PLAN

MD 235 AND MD 4
COUNTY: ST. MARY'S

SD-1 OF SD-8

DRAWN BY: BRUCE THOMPSON DD
DES. BY:
CHK. BY:
DATE: 10-C-78
SCALE: 1" = 20'

F.A.P. NO. NHC-265-1(7) E
S.H.A. NO. SM 767-501-585

TS/STD. NO. 1637-F
SHEET NO. 143 OF 213