PROPOSED SIGNALS

12" 1,2,5,6 — 12" R Y G 3,4,7,8,11 — 12" R Y G 9,10 — 12" 12,13,14,15

PROPOSED SIGNS

16,17 — R10-4(1) 9"X12" TO BE INSTALLED WITH PUSHBUTTON

18,19,20 — R3-5(L) 30"X36" ONLY

22 — R3-5(R) 30"X36" ONLY

21 — R 3-6 30"X 36"

23,24,25,26 — Town Creek DR — VARIABLE X 16" D3-2

27 — M3-1 24"X12" NORTH; M1-5(4) 30"X24" MARYLAND 235; M6-1 20"X15"

28 — SOUTH CHARLOTTE HALL 235 — ASSOCIATED SHIELD ASSEMBLY 48" X 75"

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

NEMA PHASING

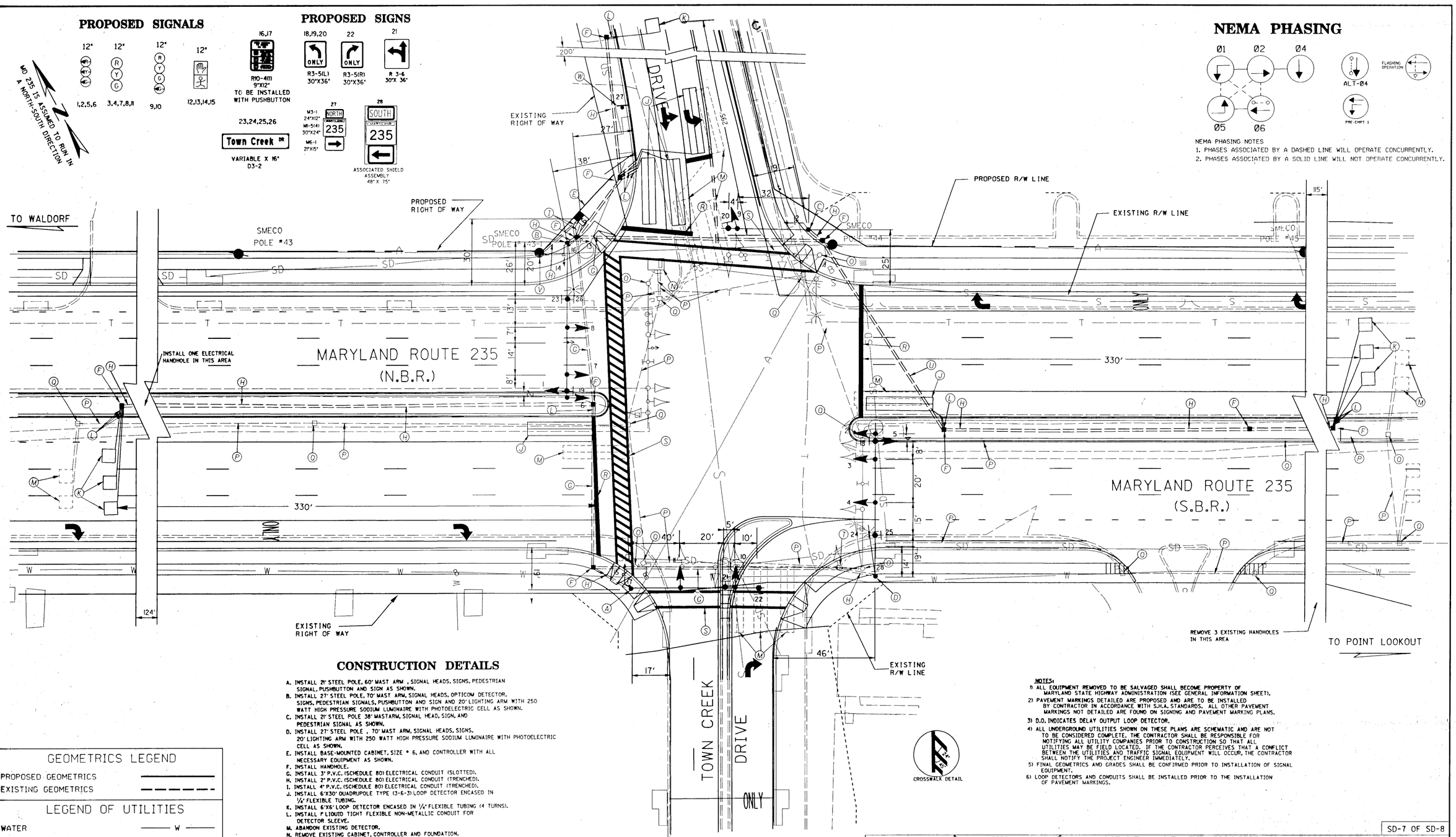
Ø1 Ø2 Ø4 Ø5 Ø6

ALT-Ø4

FLASHING OPERATION

PRE-EMPT 1

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 21' STEEL POLE, 60' MAST ARM , SIGNAL HEADS, SIGNS, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN AS SHOWN.
B. INSTALL 27' STEEL POLE, 70' MAST ARM, SIGNAL HEADS, OPTICOM DETECTOR, SIGNS, PEDESTRIAN SIGNALS, PUSHBUTTON AND SIGN AND 20' LIGHTING ARM WITH 250 WATT HIGH PRESSURE SODIUM LUMINAIRE WITH PHOTOELECTRIC CELL AS SHOWN.
C. INSTALL 21' STEEL POLE 38' MASTARM, SIGNAL HEAD, SIGN, AND PEDESTRIAN SIGNAL AS SHOWN.
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 BASE-MOUNTED CABINET, SIZE # 6, AND CONTROLLER WITH ALL NECESSARY EQUIPMENT AS SHOWN.
F. INSTALL HANDHOLE.
G. INSTALL 3" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
H. INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
I. INSTALL 4" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (TRENCHED).
J. INSTALL 6'X30' QUADRUPOLE TYPE (3-6-3) LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING.
K. INSTALL 6'X6' LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (4 TURNS).
L. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
M. ABANDON EXISTING DETECTOR.
N. REMOVE EXISTING CABINET, CONTROLLER AND FOUNDATION.
O. REMOVE EXISTING STEEL POLE, MAST ARM, SIGNALS, SIGNS, AND FOUNDATION.
P. CAP AND ABANDON EXISTING CONDUIT.
Q. REMOVE EXISTING HANDHOLE.
R. INSTALL 24" PREFORMED PAVEMENT MARKING TAPE FOR STOP BAR.
S. INSTALL 12" PREFORMED PAVEMENT MARKING TAPE FOR CROSSWALK (SEE DETAIL WHERE APPLICABLE).
T. USE EXISTING HANDHOLE.
U. INSTALL 2" P.V.C. (SCHEDULE 80) ELECTRICAL CONDUIT (SLOTTED).
V. PROPOSED SEMCO POWER FEED. INSTALL 2 INCH (SCHEDULE 80) 10' PVC RISER ON SMECO POLE #43-1.
W. INSTALL GROUND MOUNTED SIGN.

CROSSWALK DETAIL

NOTES:
1) ALL EQUIPMENT REMOVED 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.

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

REVISION 'E'
KCI TECHNOLOGIES INC.
ENGINEERS AND PLANNERS
10 NORTH PARK DRIVE
HUNT VALLEY, MARYLAND
21030-1888
(410) 316-7800

REVISIONS
E 8-98 NEW MD 235 GEOMETRICS SHA NO. SM 768 A 21
D ADD SIGNAL, SIGNING AND MODIFY PAVEMENT MARKINGS FOR SB TOWN CREEK DRIVE, 12-96
C 5-19-95 REVISE MD 235 E/P LT'S TO EXCLUSIVE LT'S.
B 8-20-92 ADD I/C AND ASBUILT

APPROVALS
ORIGINAL
CHIEF, SIGNAL DESIGN SECTION
ON
ASST. DISTRICT ENGINEER, TRAFFIC
FILE
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

SD-7 OF SD-8

MDOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
LOG MILE: 18023515.39

DRAWN BY: J.GREEZICK (FOR CENTURY)
DES. BY: R.SAGOS (FOR CENTURY)
CHK. BY:

MD 235 NORTH OF MD RTE. 4 TO MD RTE. 237
TRAFFIC SIGNAL PLAN
MD 235 AND TOWN CREEK DRIVE
COUNTY: ST. MARY'S

DATE: 12-20-86 F.A.P. NO. SEE TITLE SHEET
SCALE: 1" = 20' S.H.A. NO. SEE TITLE SHEET
TS/STD. NO. 2286-E
SHEET NO. 149 OF 213