MD 4 is considered to run in a North/South direction.

EXISTING SIGNS

33,34

Town Center Blvd.
NEXT SIGNAL

D-3(3)
30" x 96"

30

NORTH
MARYLAND
4

Shield Assembly
21" x 51"

23

W 3-3
48" x 48"

EXISTING SIGNS TO BE RELOCATED

22

Town Center Blvd →

26

← Town Center Blvd

D-3(1)
16" x Var.

27

SOUTH
MARYLAND
4

Shield Assembly
36" x 75"

31

NORTH ← MARYLAND 4 SOUTH →

M-95-1
24" x 78"
Black Letters on White Background

EXISTING SIGNALS

5,6

Y

12"

PROPOSED SIGNS

24,25,28,29

ONLY

R 3-5(L)
30" x 36"

PROPOSED SIGNALS

1,2,7,8, 9,16,17,18

R
Y
G

12" LED

3,4,10-15, 19,20

R
Y
G

12" LED

PROPOSED VIDEO DETECTORS

a-d

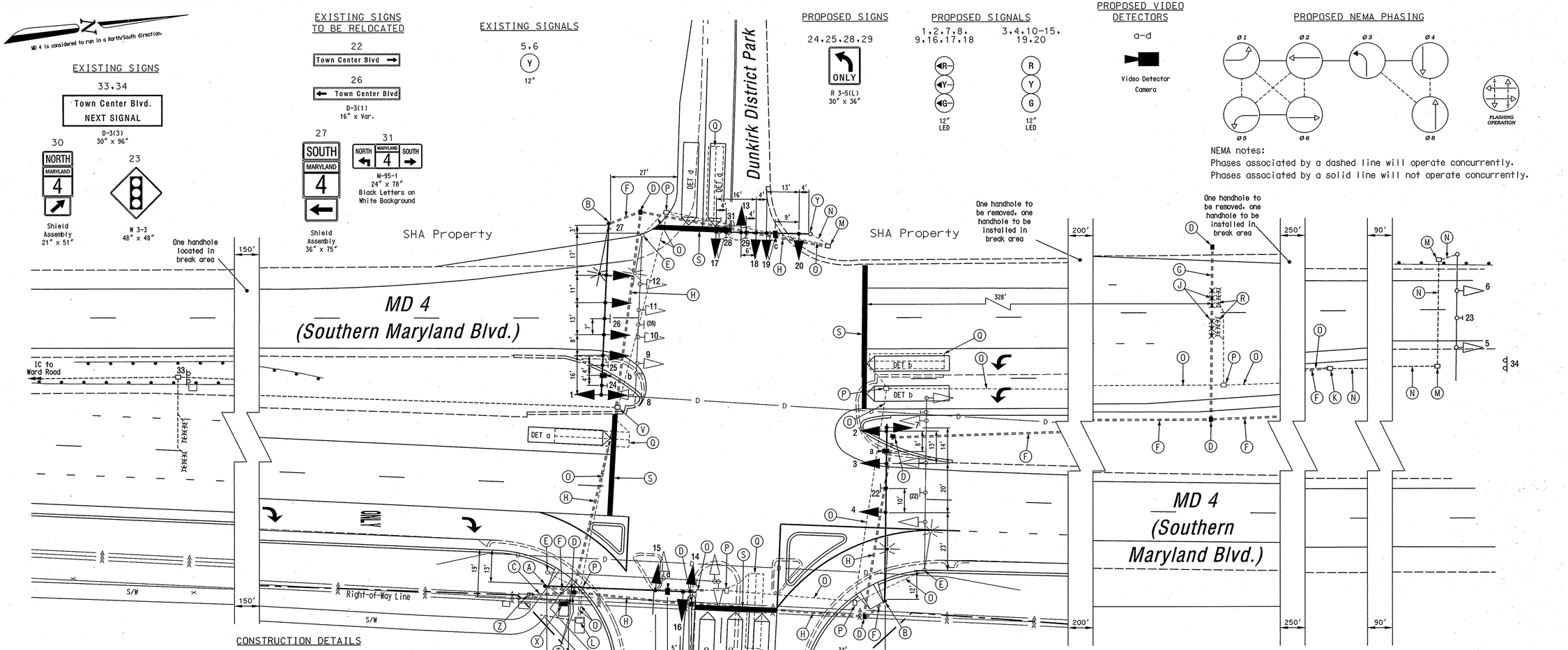
Video Detector Camera

PROPOSED NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø8

FLASHING OPERATION

NEMA notes:
Phases associated by a dashed line will operate concurrently.
Phases associated by a solid line will not operate concurrently.




CONSTRUCTION DETAILS

A. Install 27 ft. steel mast arm pole with 60 ft. mast arm, vehicle signal heads, video camera detection, and sign (Note: one 3 in. PVC conduit bend).
B. Install 27 ft. steel mast arm pole with 70 ft. mast arm, vehicle signal heads, signs, video camera detection, 20 ft. luminaire arm, and 250 watt HPS luminaire. Relocate existing signs(#22,#26,#27). (Note: one 3 in. PVC conduit bend).
C. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
D. Install handhole.
E. Remove existing pole and attached equipment. Remove foundation to 12 in. below grade.
F. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
G. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
H. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
J. Install non-invasive probes (set of 3).
K. Pull back existing HIB cable. Run through new conduit back to new cabinet/controller.
L. Remove existing cabinet. SHA to relocate existing controller to new cabinet.
M. Use existing handhole.
N. Use existing conduit.
O. Cap and abandon existing conduit.
P. Remove existing handhole.
Q. Abandon existing detector.
R. Abandon existing Micro-loop probes.
S. Installed as part of pavement marking plan.
T. Install 4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
V. Use existing handhole. Pull back existing interconnect cable and Micro-loop detector cables. Rerun in new conduit to new cabinet/controller.
X. Install base mounted NEMA 6 cabinet and all necessary equipment for a MD-SHA Type 807.05-01 underground electrical service with interconnect harness. SHA to relocate existing controller from existing cabinet.
Y. Use existing mast arm pole and install new signal heads, signs, and video detection as shown. Relocate existing sign(#31). Remove existing signal heads and all associated signal cables.
Z. Install electrical service pedestal with 2.5 in. (Schedule 80) electrical conduit for SMECO.

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. All traffic signal foundations shall be installed at final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections to meet clearances as specified in MD 816.03, MD 818.01, MD 818.02, MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
2. Loop detectors and conduits shall be installed prior to the installation of pavement markings.
3. Pavement markings detailed are proposed and are to be installed by the Contractor in accordance with MD-SHA standards. All other pavement markings will either be installed as part of the Developer's project or are to be considered as existing.
4. Revision 'A' is a revision to the traffic signal built in April, 2001 under S.H.A. Contract No.: XX1005585.
5. All underground and overhead 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 located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.
6. The Contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly label each cable. The Contractor shall remove and dispose of all abandoned electrical cable.

Revision 'A'

The Traffic Group

The Traffic Group, Inc.
410-931-6600
Fax 410-931-6601

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G — GAS MAIN
W — WATER MAIN
S — SEWER MAIN
E — ELECTRIC CABLES
D — STORM DRAIN
A — AERIAL CABLES
T — TELEPHONE CABLES

| REVISIONS | APPROVALS |
|---|---|
| A November 2, 2005 Geometric Change for Double Left Turns S.H.A. No.:BW996M82 JJD/FH CJW MAR TR'11/6 | TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION<br>ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION<br>CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION<br>DIRECTOR, TRAFFIC & SAFETY<br>ORIGINAL ON FILE |

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)

## MD 4 at Town Center Boulevard/Dunkirk District Park

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | J. Henkel | F.A.P. NO. | AC STPG 000S (686)E | TS NO. 4074A | SHEET NO. |
| CHECKED BY: | MAR | S.H.A. NO. | XX1005585 | | |
| SCALE: | 1" = 20' | COUNTY: | Calvert | T.I.M.S. NO. G921 | 1 OF 2 |
| DATE: | April 1, 2001 | LOG MILE: | 04000433.66 | | |

F:\2003\2003-030\dea\signal.dgn 11/4/2005