MD 97 is considered to run in a North/South direction.

EXISTING SIGNALS

7,8,9,10

R Y G

12"

EXISTING SIGNS

11

Frederick Road

D-3(1)
16" x Var.

12,13

ONLY

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

EXISTING NEMA PHASING

Ø2 Ø4 Ø6 Ø8

FLASHING OPERATION

PROPOSED SIGNALS

3,6

R Y G

12"
L.E.D.

1,4

Y R G

12"/8"
L.E.D.

2,5

R Y G

12"
L.E.D.

a,b,c,d
e 1

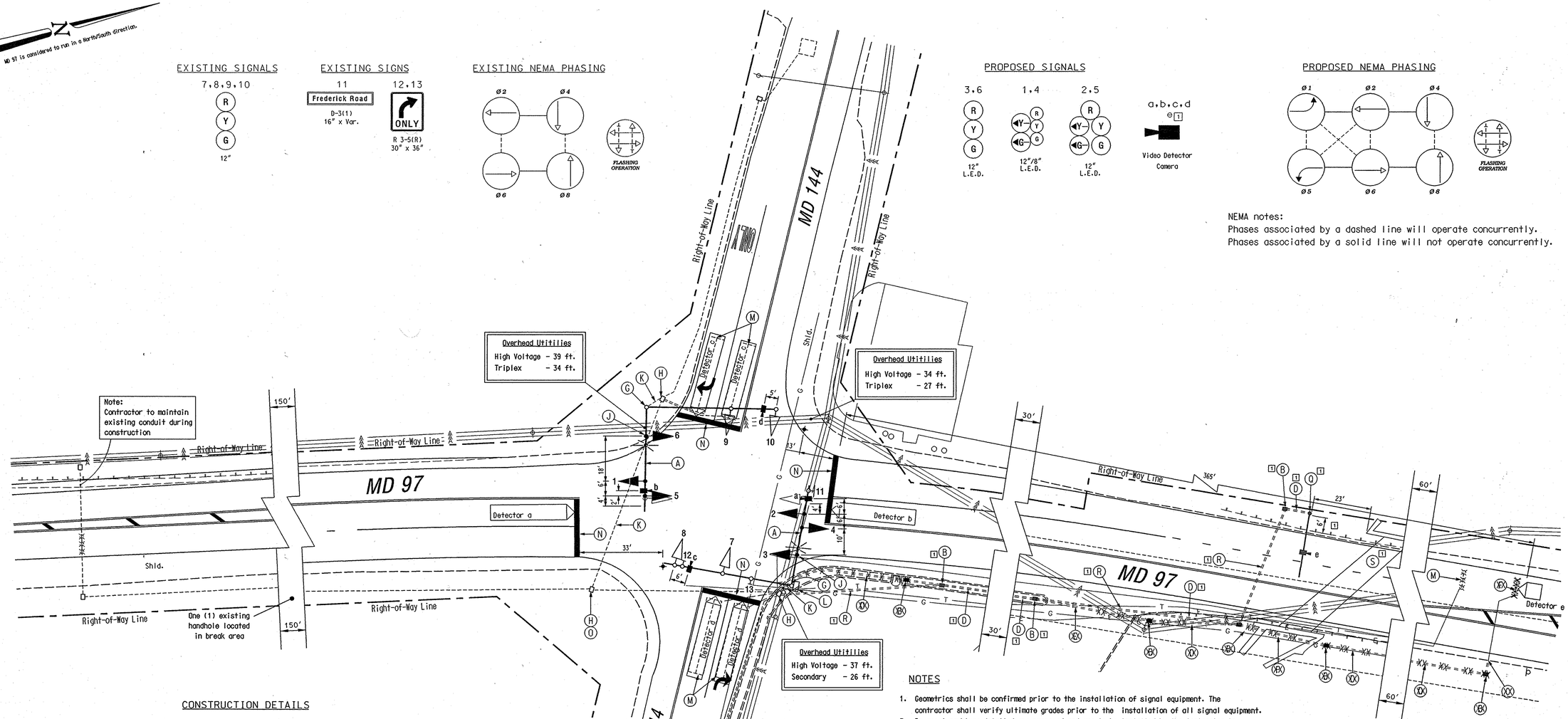
Video Detector
Camera

PROPOSED NEMA PHASING

Ø1 Ø2 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. Use existing mast arm, remove existing 3-section signal heads, install new 5-section and 3-section signal heads, and video detection equipment.
B. Install handhole.
C. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
D. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
E. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored
F. Install micro-loop probe (set of 3)
G. Use existing steel pole.
H. Use existing handhole.
J. Replace existing 3-section signal head with black-faced L.E.D. signal head.
K. Use existing conduit.
L. Use existing cabinet/controller. Install video detection equipment and load switches. (SHA to modify controller for new phasing).
M. Abandon existing loop detector.
N. Stop line to be installed by others.
O. Locate existing handhole, raise frame and cover to grade.
P. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - bored under box culvert spillway.
1 Q. Install 21 ft. (cut from a 27 ft.) steel mast arm pole with 25 ft. (cut from a 38 ft.) mast arm, and video detection equipment. (Note: one 3 in. PVC conduit bend).
1 R. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted.
1 S. Selective tree trimming for clear camera view.

NOTES

1. Geometrics shall be confirmed prior to the installation of signal equipment. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
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 'B' is a revision to the traffic signal built in March 7, 1986 under S.H.A. Contract No.: 855-25-006
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. All unused electrical cables shall be removed and disposed of by the Contractor.

1 Red Line Revision Dated October 28, 2008

MDOT - SHA
O.O.T.S.
10/28/08
O.H.R. Approval Date
T.S.- 2168B TIMS No. H-155
Log Mile - 13009706.36

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

Revision 'B'

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

REVISIONS

B 11/22/05 Modification to provide E/P NB/SB LTL
S.H.A. No.:BW996M82
FDB

A Mod ICB to full color - full Act. Signal 01/26/89
S.H.A. No. MD-110-451-785
TS/ME TH

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY
ORIGINAL ON FILE

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

MD 97 at MD144

DRAWN BY:	C. Merritt	F.A.P. NO.	N/A	TS NO. 2168B	SHEET NO.
CHECKED BY:	R. Zacherl	S.H.A. NO.	BW996M82		
SCALE:	1" = 20'	COUNTY:	Howard	T.I.M.S. NO. H-155	1 OF 2
DATE:	3-7-86	LOG MILE:	13009706.36		

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