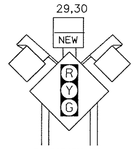
MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

29,30



TEMPORARY SIGN
W3-3 NEW
48" x 48"

31,32

TEMPORARY SIGN
W3-3 NEW
36" x 36"

20,22

← Old Waterloo Rd
Summer Cloud Way →

D3-2
VARIABLE x 32"

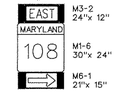
16,19

← Summer Cloud Way
Old Waterloo Rd →

D3-2
VARIABLE x 32"

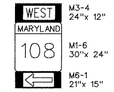
SIGNS

23



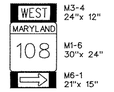
ASSOCIATED SHIELD ASSEMBLY
30"x 51"

24



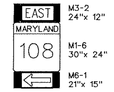
ASSOCIATED SHIELD ASSEMBLY
30"x 51"

26



ASSOCIATED SHIELD ASSEMBLY
30"x 51"

27



ASSOCIATED SHIELD ASSEMBLY
30"x 51"

17,21

25,28

Waterloo Rd

D3-2
VARIABLE x 16"

18

R3-5R
(30" x 36")

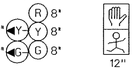
SIGNALS

2,5 — 12"

3,6-8,10,11 — 12"

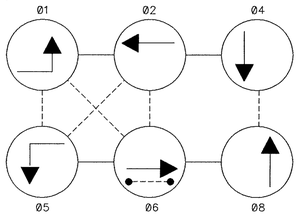
9 — 8"

1,4

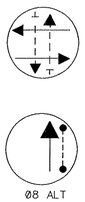


12-15 — 12"

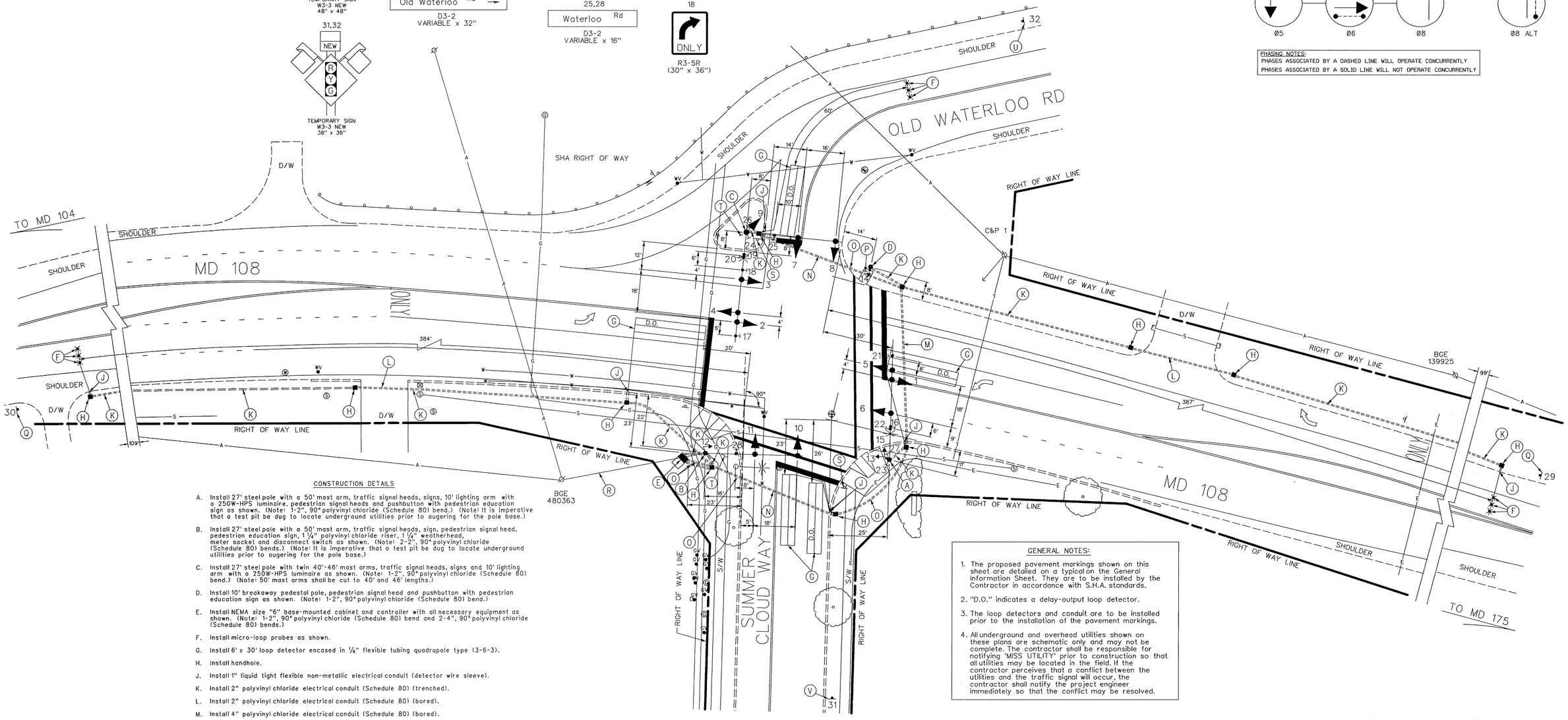
NEMA PHASING



FLASHING OPERATION



PHASING 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' steel pole with a 50' mast arm, traffic signal heads, signs, 10' lighting arm with a 250W-HPS luminaire, pedestrian signal heads and pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend.) (Note: It is imperative that a test pit be dug to locate underground utilities prior to augering for the pole base.)

B. Install 27' steel pole with a 50' mast arm, traffic signal heads, sign, pedestrian signal head, pedestrian education sign, 1 1/4" polyvinyl chloride riser, 1 1/4" weatherhead, meter socket and disconnect switch as shown. (Note: 2-2", 90° polyvinyl chloride (Schedule 80) bends.) (Note: It is imperative that a test pit be dug to locate underground utilities prior to augering for the pole base.)

C. Install 27' steel pole with twin 40'-46' mast arms, traffic signal heads, signs and 10' lighting arm with a 250W-HPS luminaire as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend.) (Note: 50' mast arms shall be cut to 40' and 46' lengths.)

D. Install 10' breakaway pedestal pole, pedestrian signal head and pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend.)

E. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend and 2-4", 90° polyvinyl chloride (Schedule 80) bends.)

F. Install micro-loop probes as shown.

G. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).

H. Install handhole.

J. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).

K. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (bored).

M. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (bored).

N. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

O. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

P. Install 4' x 6' sidewalk section at grade from road edge to proposed pedestal pole as shown.

Q. Install ground mounted W3-3 sign 550' prior to the stopline as shown.

R. Proposed overhead electrical service to be install by BGE.

S. Remove existing R1-1 "STOP" sign and post.

T. Remove existing sidewalk and replace after proposed signal equipment is installed as shown.

U. Install ground mounted W3-3 sign 475' prior to the stopline as shown.

V. Install ground mounted W3-3 sign 250' prior to the stopline as shown.

GENERAL NOTES:

1. The proposed pavement markings shown on this sheet are detailed on a typical on the General Information Sheet. They are to be installed by the Contractor in accordance with S.H.A. standards.
2. "D.O." indicates a delay-output loop detector.
3. The loop detectors and conduit are to be installed prior to the installation of the pavement markings.
4. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying 'MISS UTILITY' 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 will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.

UTILITY LEGEND

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

STREET TRAFFIC STUDIES, LTD.®
Gateway International
1302 Concourse Drive, Suite 104
Linthicum, Maryland 21090
Ph (410) 859-3553
Fax (410) 859-3579

3318.dgn

REVISIONS

APPROVALS

ASST. CHIEF TEDD SECTION

ASST. DISTRICT ENGINEER, TRAFFIC

2/3/98
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 AND OLD WATERLOO RD / SUMMER CLOUD WAY

DRAWN BY: W J NIES	COUNTY: HOWARD	TS NO. 3773	SHEET NO.
CHECK BY:	LOG MILE: 13010814.57		
DATE: JAN 98	F.A.P. NO.	T.I.M.S. NO.	1 OF 2
SCALE: 1" = 20'	S.H.A. NO.		