MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

OVERHEAD UTILITY HEIGHTS

1 - I/C - 21'-6"
CATV - 22'-0"
SEC. - 28'-1"
PRIM. - 38'-6"

2 - CATV - 23'-6"
I/C - 25'-1"
SEC. - 28'-0"
SEC. - 29'-0"
SEC. - 30'-0"
PRIM. - 40'-0"

3 - GUY - 21'-1"
(Guy wire is to be raised when Bell Atlantic poles are relocated).

4 - Fiber Optic - To be installed by Bell Atlantic at a minimum of 2' above the mast arm (approx. 23').

EXISTING SIGNS

11 — SOUTH / MARYLAND / 112 — ASSOCIATED SHIELD ASSEMBLY

13 — WEST / MARYLAND / 28 / POOLESVILLE 8 / FREDERICK — ASSOCIATED SHIELD ASSEMBLY

14 — SOUTH / MARYLAND / 112 — ASSOCIATED SHIELD ASSEMBLY

15 — RIGHT LANE MUST TURN RIGHT — R3-7R

17 — END / MARYLAND / 112 / WEST MARYLAND 28 / EAST MARYLAND 28 — ASSOCIATED SHIELD ASSEMBLY

NOTE: SIGNS NO. 11 & 13 ARE TO BE RELOCATED BY THE CONTRACTOR.

PROPOSED SIGNS

18a — Darnestown RD 14000>
18b — Darnestown RD <14000
D3-2 Dual faced (Variable x 16")

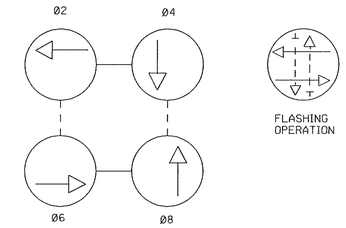
12a,16b — ← Seneca RD 14200>
16a,12b — Seneca RD 14200> →
D3-2 Dual faced (Variable x 16")

19 — ONLY — R3-5R 30"x 36"

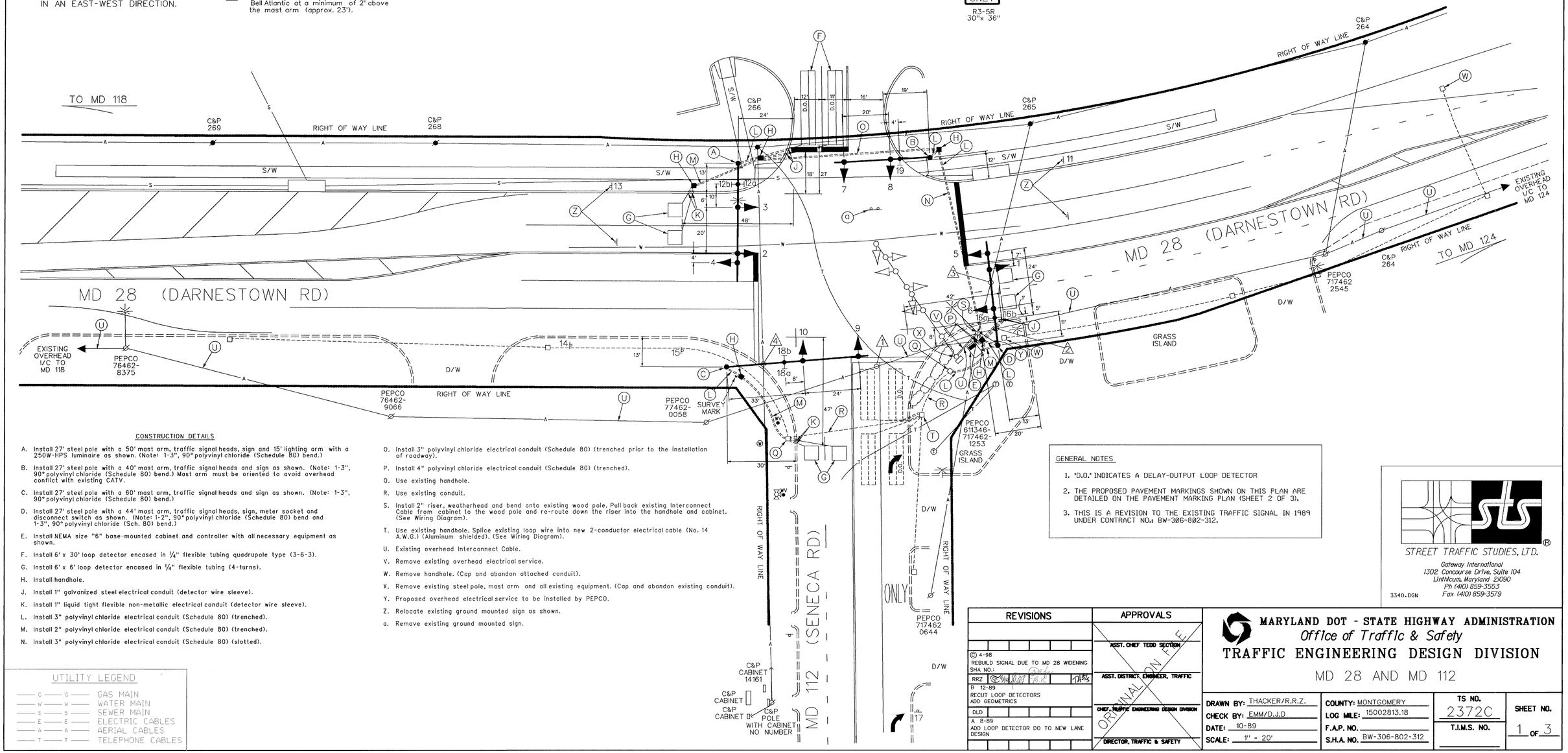
PROPOSED SIGNALS

1-10 — R Y G — 12"

NEMA PHASING



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



CONSTRUCTION DETAILS

A. Install 27' steel pole with a 50' mast arm, traffic signal heads, sign and 15' lighting arm with a 250W-HPS luminaire as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 27' steel pole with a 40' mast arm, traffic signal heads and sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.) Mast arm must be oriented to avoid overhead conflict with existing CATV.

C. Install 27' steel pole with a 60' mast arm, traffic signal heads and sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

D. Install 27' steel pole with a 44' mast arm, traffic signal heads, sign, meter socket and disconnect switch as shown. (Note: 1-2", 90° polyvinyl chloride (Schedule 80) bend and 1-3", 90° polyvinyl chloride (Sch. 80) bend.)

E. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

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

G. Install 6' x 6' loop detector encased in 1/4" flexible tubing (4-turns).

H. Install handhole.

J. Install 1" galvanized steel electrical conduit (detector wire sleeve).

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

L. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

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

N. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

O. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched prior to the installation of roadway).

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

Q. Use existing handhole.

R. Use existing conduit.

S. Install 2" riser, weatherhead and bend onto existing wood pole. Pull back existing Interconnect Cable from cabinet to the wood pole and re-route down the riser into the handhole and cabinet. (See Wiring Diagram).

T. Use existing handhole. Splice existing loop wire into new 2-conductor electrical cable (No. 14 A.W.G.) (Aluminum shielded). (See Wiring Diagram).

U. Existing overhead Interconnect Cable.

V. Remove existing overhead electrical service.

W. Remove handhole. (Cap and abandon attached conduit).

X. Remove existing steel pole, mast arm and all existing equipment. (Cap and abandon existing conduit).

Y. Proposed overhead electrical service to be installed by PEPCO.

Z. Relocate existing ground mounted sign as shown.

a. Remove existing ground mounted sign.

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

GENERAL NOTES

1. "D.O." INDICATES A DELAY-OUTPUT LOOP DETECTOR
2. THE PROPOSED PAVEMENT MARKINGS SHOWN ON THIS PLAN ARE DETAILED ON THE PAVEMENT MARKING PLAN (SHEET 2 OF 3).
3. THIS IS A REVISION TO THE EXISTING TRAFFIC SIGNAL IN 1989 UNDER CONTRACT NO.: BW-306-802-312.

STREET TRAFFIC STUDIES, LTD.
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3340.DGN

REVISIONS	APPROVALS
© 4-98 REBUILD SIGNAL DUE TO MD 28 WIDENING SHA NO.: RRZ	ASST. CHIEF TEDD SECTION
B 12-89 RECUT LOOP DETECTORS ADD GEOMETRICS DLD	ASST. DISTRICT ENGINEER, TRAFFIC
A 8-89 ADD LOOP DETECTOR DO TO NEW LANE DESIGN	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, TRAFFIC & SAFETY

ORIGINAL ON FILE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 AND MD 112

DRAWN BY: THACKER/R.R.Z.	COUNTY: MONTGOMERY	TS NO. 2372C	SHEET NO. 1 OF 3
CHECK BY: EMM/D.J.D	LOG MILE: 15002813.18		
DATE: 10-89	F.A.P. NO.	T.I.M.S. NO.	
SCALE: 1" - 20'	S.H.A. NO. BW-306-802-312		

APR 1 0 2020