MD 32 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION

## PROPOSED SIGNS

21: ⇦ Andrea Dr / Burntwoods Rd ⇨ — D3-2 VARIABLE X 32"

17: ⇦ Burntwoods Rd / Andrea Dr ⇨ — D3-2 VARIABLE X 32"

15,19: LEFT TURN YIELD ON GREEN — R10-12 36"x 42"

16,20: ONLY — R3-5R 30" x 36"

23: Sykesville Rd. ← W/GR; SOUTH ← MARYLAND 32 NORTH → BLK/W — M95-1 72" x 36"

## EXISTING SIGNS

18: SIGNAL AHEAD / PREPARE TO STOP WHEN FLASHING — W3-3A (MOD)

22: Sykesville Rd. / NORTH ← MARYLAND 32 SOUTH → — M95-1

EXISTING SIGN TO BE RELOCATED ONTO PROPOSED MAST ARM

## PROPOSED SIGNALS

1,6 — 12" R 8", 12" Y 8", 12" G 8"

2,7 — R, Y, G 12"

9,12 — R, Y, G 8"

3,8,10,11,13,14 — R, Y, G 12"

NOTE: ALL TRAFFIC SIGNALS ARE TO BE BLACK-FACED

## EXISTING SIGNALS

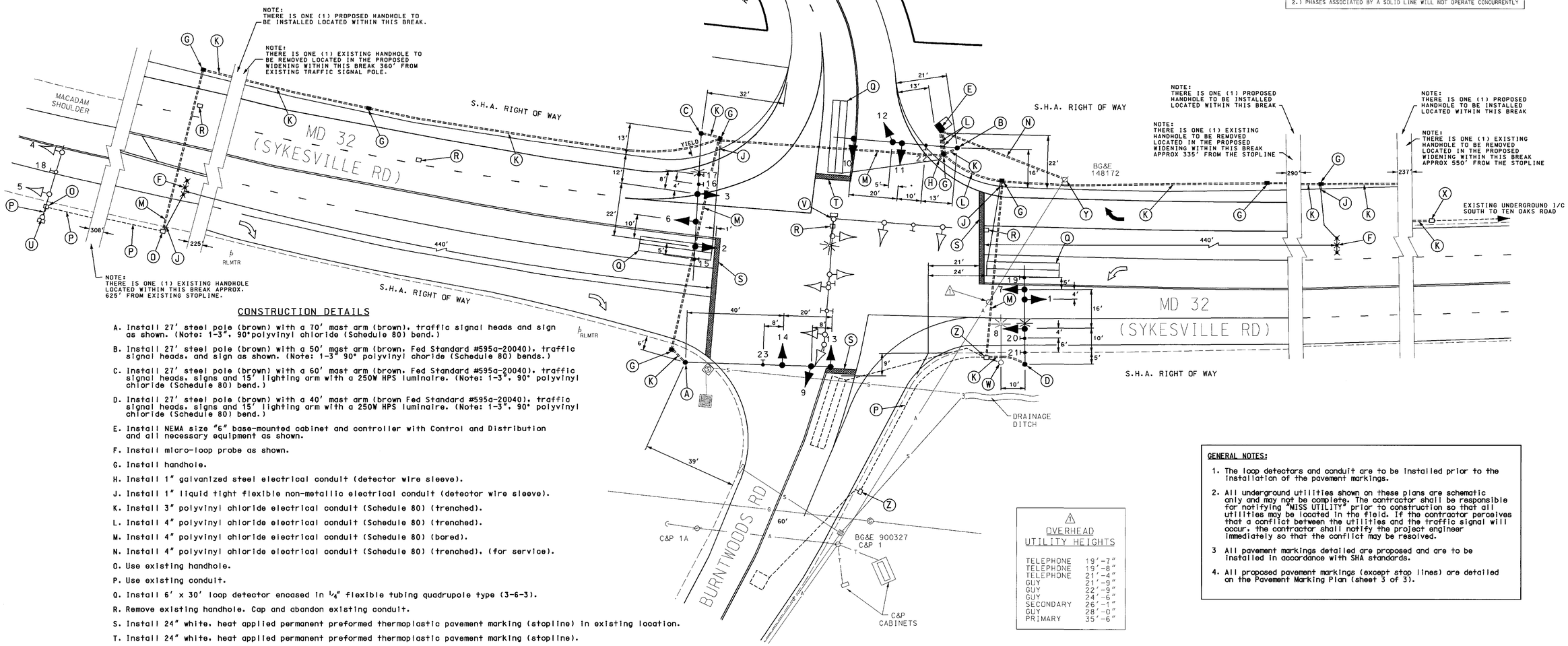
4,5 — Y 12"

## NEMA PHASING

Ø1, Ø2, Ø4, Ø5, Ø6, Ø8

FLASHING OPERATION

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 27' steel pole (brown) with a 70' mast arm (brown), traffic signal heads and sign as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 27' steel pole (brown) with a 50' mast arm (brown, Fed Standard #595a-20040), traffic signal heads, and sign as shown. (Note: 1-3" 90° polyvinyl choride (Schedule 80) bends.)

C. Install 27' steel pole (brown) with a 60' mast arm (brown, Fed Standard #595a-20040), traffic signal heads, signs and 15' lighting arm with a 250W HPS luminaire. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

D. Install 27' steel pole (brown) with a 40' mast arm (brown Fed Standard #595a-20040), traffic signal heads, signs and 15' lighting arm with a 250W HPS luminaire. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

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

F. Install micro-loop probe as shown.

G. Install handhole.

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

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

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

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

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

N. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched), (for service).

O. Use existing handhole.

P. Use existing conduit.

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

R. Remove existing handhole. Cap and abandon existing conduit.

S. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline) in existing location.

T. Install 24" white, heat applied permanent preformed thermoplastic pavement marking (stopline).

U. Use existing steel pole with 30' mast arm, traffic signals and sign.(Hazard Identification Beacon).

V. Remove existing twin mast arm and all attached equipment.

W. Remove existing 40' lighting standard with 15' lighting arm and luminaire (Remove concrete foundation 12" below grade).

X. Disconnect existing interconnect cable in the existing cabinet at Burntwoods Road and pull back to this handhole located approximately 720' from the stopline on northbound MD 32. Reroute through the proposed conduit into the new base-mounted cabinet.

Y. Existing underground electrical service by to be disconnected and replaced with new electrical service to be installed by BGE.

Z. Disconnect and discard all shielded cable in existing handhole. Install new splice kit and 2-conductor electrical cable (aluminum shielded) and wire to proposed cabinet. (Note: The existing loops in the Burntwoods Road right turn lane are to be abandoned.

## OVERHEAD UTILITY HEIGHTS

| | |
|---|---|
| TELEPHONE | 19'-7" |
| TELEPHONE | 19'-8" |
| TELEPHONE | 21'-4" |
| GUY | 21'-9" |
| GUY | 22'-9" |
| GUY | 24'-6" |
| SECONDARY | 26'-1" |
| GUY | 28'-0" |
| PRIMARY | 35'-6" |

## GENERAL NOTES:

1. The loop detectors and conduit are to be installed prior to the installation of the pavement markings.
2. All underground 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.
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.
4. All proposed pavement markings (except stop lines) are detailed on the Pavement Marking Plan (sheet 3 of 3).

## GEOMETRIC LEGEND

PROPOSED
EXISTING

## LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE —A—A—
ELECTRIC —E—E—
TELEPHONE —T—T—
GAS —G—G—
SEWER —S—S—
WATER —W—W—
CABLE TV —TV—TV—

REVISION "A"

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| REVISIONS | APPROVALS |
|---|---|
| | TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION |
| | ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |
| | CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |
| A 4-30-03 REBUILD TRAFFIC SIGNAL DUE TO GEOMETRIC CHANGES SHA NO.: BW996M82, TIMS # F416 | DIRECTOR, TRAFFIC & SAFETY |
| RRZ CJS DLB | |

ORIGINAL ON FILE

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

MD 32 (SYKESVILLE RD) AND BURNTWOODS ROAD/ANDREA DRIVE

| | | | |
|---|---|---|---|
| DRAWN BY: SR BARANOWSKI | F.A.P. NO. | | TS NO. 3258A |
| CHECKED BY: | S.H.A. NO. | HO-744-509-785 | |
| SCALE: 1"= 20' | COUNTY: | HOWARD | T.I.M.S. NO. F416 |
| DATE: 11-11-92 | LOG MILE: | 13003216.56 | SHEET NO. 1 OF 3 |

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