FHWA REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

SIGNALS

1,4 — 12"/8"
2,5 — 12"
3,6-10 — 12"
11-14 — 12"

SIGNS

16,18 — R 10-12, 36" x 42" (LEFT TURN YIELD ON GREEN)
15a,17b — Osborne Pkwy / Colgate Drive, D 3-2, 32" x Var.
15b,17a — Colgate Drive / Osborne Pkwy, D 3-2, 32" x Var.
19 — R 3-5(R), 30" x 36" (ONLY)
20 — R 3-5(L), 30" x 36" (ONLY)
21-24 — R 10-3c, 9" x 12" (To Be Installed With Pushbutton)
25 — Temporary Sign, W 3-3, 48" x 48", D 3-2, 32" x Var. (Osborne Pkwy / Colgate Drive)
26 — Temporary Sign, W 3-3, 48" x 48", D 3-2, 32" x Var. (Colgate Drive / Osborne Pkwy)

MD 24 is considered to run in a North-South direction

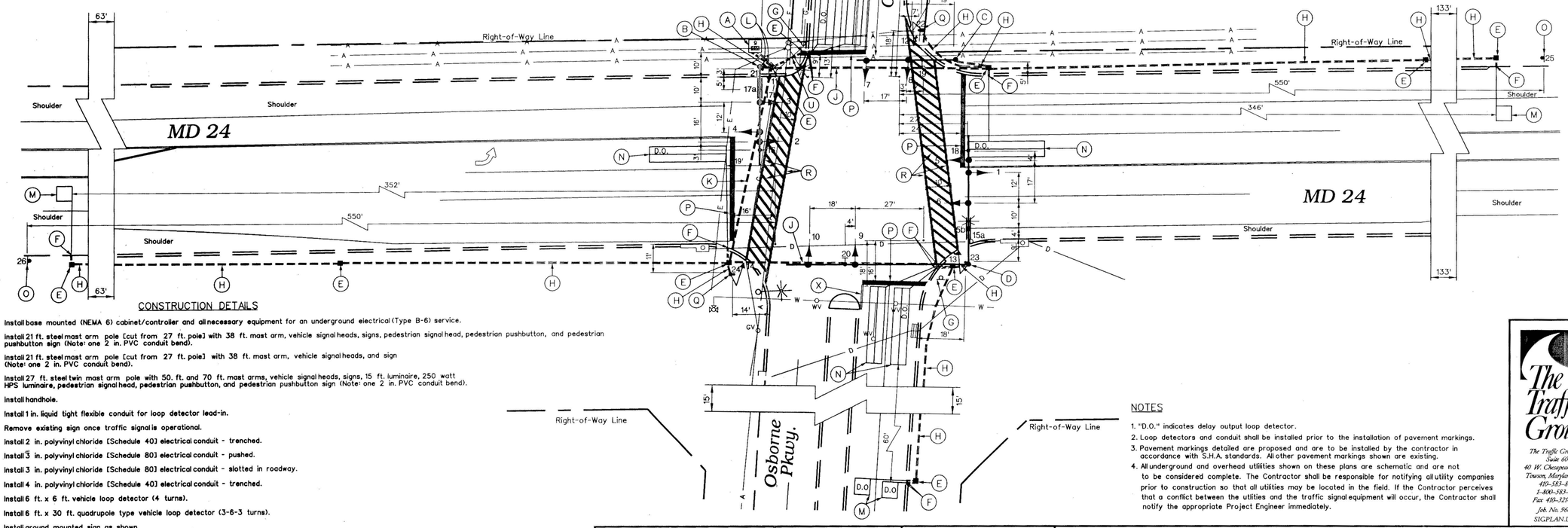
NEMA PHASING

Ø1 Ø2 Ø4 Ø4 Alt.
Ø5 Ø6 Ø8 Ø8 Alt.

FLASHING OPERATION

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 base mounted (NEMA 6) cabinet/controller and all necessary equipment for an underground electrical (Type B-6) service.
B. Install 21 ft. steel mast arm pole [cut from 27 ft. pole] with 38 ft. mast arm, vehicle signal heads, signs, pedestrian signal head, pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
C. Install 21 ft. steel mast arm pole [cut from 27 ft. pole] with 38 ft. mast arm, vehicle signal heads, and sign (Note: one 2 in. PVC conduit bend).
D. Install 27 ft. steel twin mast arm pole with 50. ft. and 70 ft. mast arms, vehicle signal heads, signs, 15 ft. luminaire, 250 watt HPS luminaire, pedestrian signal head, pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
E. Install handhole.
F. Install 1 in. liquid tight flexible conduit for loop detector lead-in.
G. Remove existing sign once traffic signal is operational.
H. Install 2 in. polyvinyl chloride [Schedule 40] electrical conduit - trenched.
J. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - pushed.
K. Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
L. Install 4 in. polyvinyl chloride [Schedule 40] electrical conduit - trenched.
M. Install 6 ft. x 6 ft. vehicle loop detector (4 turns).
N. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (3-6-3 turns).
O. Install ground mounted sign as shown.
P. Install 24 in. wide thermoplastic pavement marking - white for stop line.
Q. Install 10 ft. steel pedestal pole on break away base with pedestrian signal head, pedestrian pushbutton, and pedestrian pushbutton sign (Note: one 2 in. PVC conduit bend).
R. Install 12 in. wide thermoplastic pavement marking - white for crosswalk.
S. Install pavement marking symbol as shown.
T. Install micro-loop probes.
U. Install 2 in. polyvinyl chloride [Schedule 80] electrical conduit - pushed under existing sidewalk.
V. Remove existing pavement marking by grinding.
W. Install 5 in. wide pavement marking -white for lanes lines.
X. Install 5 in. wide pavement marking - yellow for centerline.
Y. Tie to existing pavement marking.

NOTES

1. "D.O." indicates delay output loop detector.
2. Loop detectors and conduit 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 S.H.A. standards. All other pavement markings shown are existing.
4. 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.

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SIGPLAN.DGN

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

ASST. DIVISION CHIEF / TRAFFIC ENGINEERING DESIGN DIVISION — 3/13/97
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. DISTRICT ENGINEER / TRAFFIC
DIRECTOR, OFFICE OF TRAFFIC & SAFETY — 3/14/97

MDOT – STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: Frank Hoeckel
DES. BY: John Dirndorfer
CHK. BY: Bruce Thompson 3-12-97

(Traffic Signal Plan)
MD 24 at Colgate Drive \ Osborne Pkwy.

COUNTY: HARFORD
LOG MILE *12024012.82

DATE: March 4, 1997
SCALE: 1" - 20'
F.A.P. NO. N/A
S.H.A. NO.

TS/STD. NO. 3637
SHEET NO. 1 of 2