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

## EXISTING SIGNALS

1,4 — 12"/8" LED
2,5 — 12" LED
3,6,8,10 — 12" LED
7,9 — 12" LED
11,12,13,14 — 16" LED PEDESTRIAN COUNTDOWN HEAD

## EXISTING EQUIPMENT

a,b,c,d

27, 28 — ACCESSIBLE PEDESTRIAN PUSHBUTTON
29, 30 — ACCESSIBLE PEDESTRIAN PUSHBUTTON

## PROPOSED SIGNS

31,32 — R10-3(1) 9" x 15"
33,34 — R10-3(1) 9" x 15"
35 — R2-1 36"x 36"

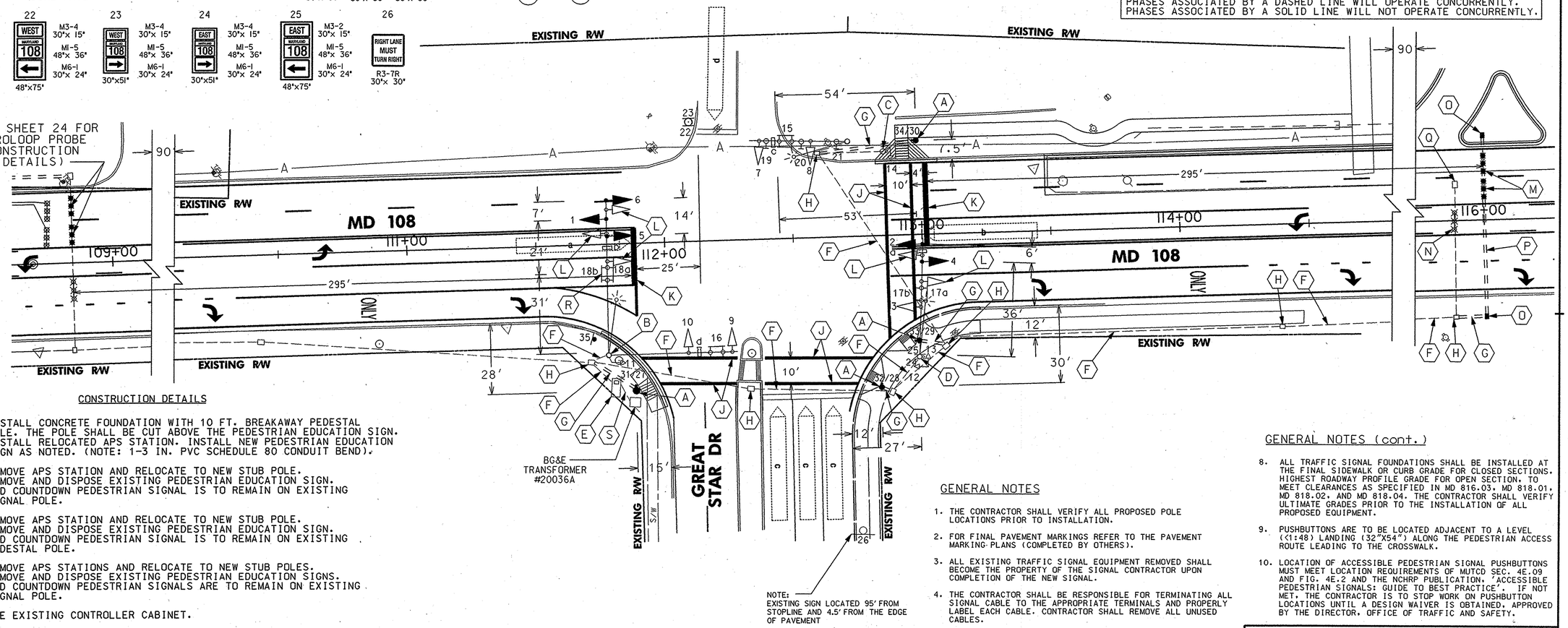
## NEMA PHASING

Ø1 Ø2 Ø3 Ø4
Ø5 Ø6 Ø4 ALT FLASHING OPERATION

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

## EXISTING SIGNS

15,16 — Clarksville PIKE — D3-2 (VARIABLE X 16") DUAL FACE
17a,18a — ⇦ Great Star DR — D3-1 (VARIABLE X 16") DUAL FACE
17b,18b — Great Star DR ⇨ — D3-1 (VARIABLE X 16") DUAL FACE
19 — ONLY — R3-5L 30"x 36"
20 — R3-6L 30"x 36"
21 — ONLY — R3-5R 30"x 36"
22 — WEST MARYLAND 108 — M3-4 30"x 15" MI-5 48"x 36" M6-1 30"x 24" — 48"x75"
23 — WEST MARYLAND 108 — M3-4 30"x 15" MI-5 48"x 36" M6-1 30"x 24" — 30"x51"
24 — EAST MARYLAND 108 — M3-4 30"x 15" MI-5 48"x 36" M6-1 30"x 24" — 30"x51"
25 — EAST MARYLAND 108 — M3-2 30"x 15" MI-5 48"x 36" M6-1 30"x 24" — 48"x75"
26 — RIGHT LANE MUST TURN RIGHT — R3-7R 30"x 30"




## CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 10 FT. BREAKAWAY PEDESTAL POLE. THE POLE SHALL BE CUT ABOVE THE PEDESTRIAN EDUCATION SIGN. INSTALL RELOCATED APS STATION. INSTALL NEW PEDESTRIAN EDUCATION SIGN AS NOTED. (NOTE: 1-3 IN. PVC SCHEDULE 80 CONDUIT BEND).

B. REMOVE APS STATION AND RELOCATE TO NEW STUB POLE. REMOVE AND DISPOSE EXISTING PEDESTRIAN EDUCATION SIGN. LED COUNTDOWN PEDESTRIAN SIGNAL IS TO REMAIN ON EXISTING SIGNAL POLE.

C. REMOVE APS STATION AND RELOCATE TO NEW STUB POLE. REMOVE AND DISPOSE EXISTING PEDESTRIAN EDUCATION SIGN. LED COUNTDOWN PEDESTRIAN SIGNAL IS TO REMAIN ON EXISTING PEDESTAL POLE.

D. REMOVE APS STATIONS AND RELOCATE TO NEW STUB POLES. REMOVE AND DISPOSE EXISTING PEDESTRIAN EDUCATION SIGNS. LED COUNTDOWN PEDESTRIAN SIGNALS ARE TO REMAIN ON EXISTING SIGNAL POLE.

E. USE EXISTING CONTROLLER CABINET.

F. USE EXISTING CONDUIT.

G. INSTALL 3" PVC SCHEDULE 80 CONDUIT - TRENCHED.

H. USE EXISTING HANDHOLE.

J. INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.

K. INSTALL 24" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS.

L. RELOCATE EXISTING SIGNAL HEAD ON EXISTING MAST ARM.

## CONSTRUCTION DETAILS (cont.)

M. INSTALL NON-INVASIVE MICROLOOP PROBE.

N. REMOVE EXISTING MICROLOOP PROBE.

O. INSTALL HANDHOLE.

P. INSTALL 3" PVC SCHEDULE 80 CONDUIT - SLOTTED.

Q. REMOVE EXISTING HANDHOLE. CAP AND ABANDON EXISTING CONDUIT.

R. RELOCATE EXISTING STREET NAME SIGN ON EXISTING MAST ARM TO LOCATION AS SHOWN.

S. EXISTING UNDERGROUND SERVICE IS TO BE MAINTAINED BY BG&E.

## GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS (COMPLETED BY OTHERS).
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. CONTRACTOR SHALL REMOVE ALL UNUSED CABLES.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE COMPLETE CONSTRUCTION PERIOD.
7. ADA CURB RAMPS AND WARNING SURFACE ARE TO BE INSTALLED BY THE ROADWAY CONTRACTOR

## GENERAL NOTES (cont.)

8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03. MD 818.01. MD 818.02. AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED EQUIPMENT.
9. PUSHBUTTONS ARE TO BE LOCATED ADJACENT TO A LEVEL (<1:48) LANDING (32"X54") ALONG THE PEDESTRIAN ACCESS ROUTE LEADING TO THE CROSSWALK.
10. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION. 'ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE'. IF NOT MET. THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED. APPROVED BY THE DIRECTOR. OFFICE OF TRAFFIC AND SAFETY.

⚠ ADDENDUM No. 1

### UTILITY LEGEND

| | |
|---|---|
| —SD—SD— | STORM DRAIN |
| —G—G— | GAS MAIN |
| —W—W— | WATER MAIN |
| —S—S— | SEWER MAIN |
| —E—E— | ELECTRIC CABLES |
| —A—A— | AERIAL CABLES |
| —T—T— | TELEPHONE CABLES |
| —F—F— | FIBER-OPTIC |

APPROVALS: TEAM LEADER / ASST. DIV. CHIEF / DIVISION CHIEF / OFFICE DIRECTOR — ORIGINAL ON FILE

REVISIONS
C MODIFY PEDESTRIAN EQUIPMENT LOCATIONS FOR NEW INTERSECTION GEOMETRY. MODIFY SIGNAL HEAD ALIGNMENT AND NON-INVASIVE MICROLOOP PROBES. FOR WB APPROACH. SHA NO.: H0888077 — S.W. SDY 11/8/07 12/28/07
B 11-2005 SIGNAL MODIFICATION DUE TO NEW GEOMETRICS (NO. CO. CAPITAL PROJECT NO.:T-7020) — KJS
A 10-01-98 AS BUILT SHA NO.: BW177M83 — RRZ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STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 108 AND GREAT STAR DRIVE**

# TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 5/98 CONTRACT NO. BW177M83

DESIGNED BY M. GESELL — COUNTY HOWARD
DRAWN BY M. GESELL — LOGMILE 13010803.98
CHECKED BY C. CHEN — T.I.M.S. NO. I021
F.A.P. NO. N/A — TOD NO.

DRAWING NO. TS - 3802C — SHEET NO. 26 OF 27

PLOTTED: Monday, March 19, 2007 AT 10:23 AM
FILE: Z:\Project\06-0020 Century Engineering-MD SHA\Task 3 MD 108\CADD\04-PS&E Plans 3-19-07\cSG-P004_md108.dgn

BY: amym