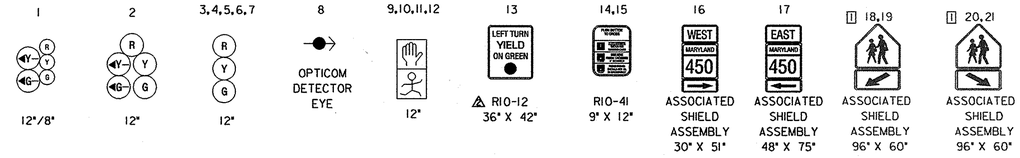
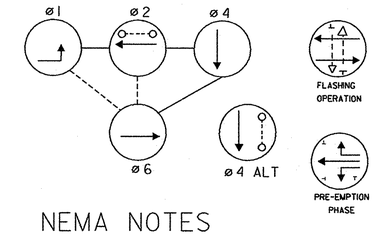
## PROPOSED SIGNS/SIGNALS




## NEMA PHASING




## NEMA NOTES

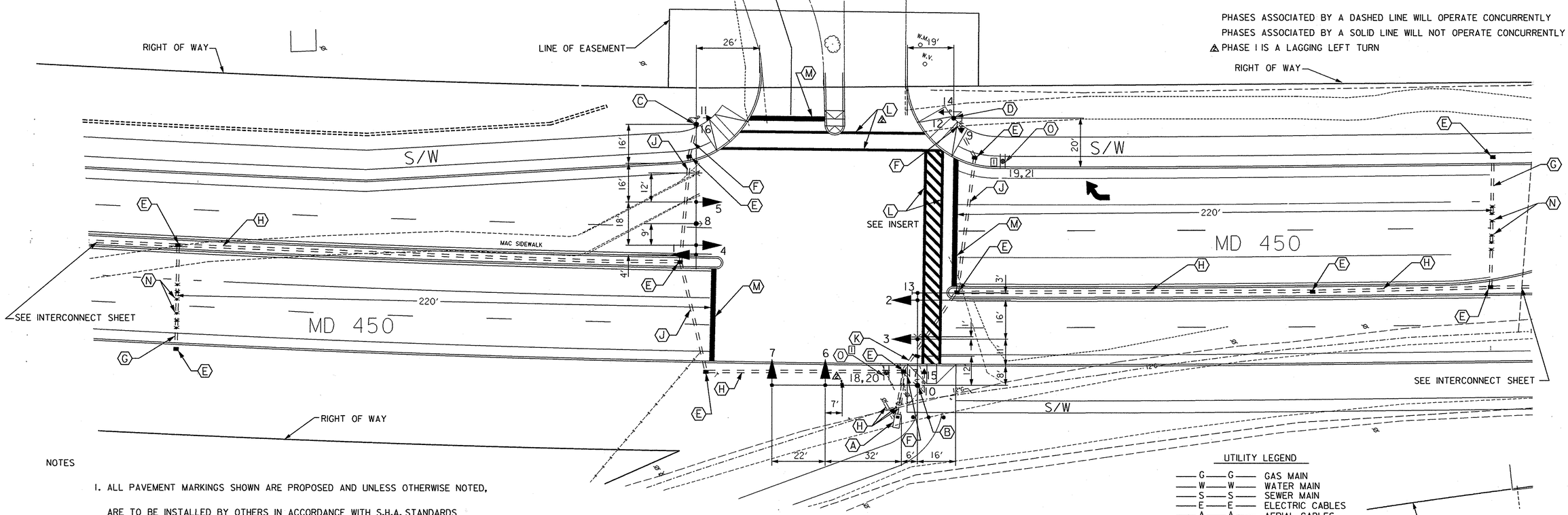
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY

PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

A PHASE 1 IS A LAGGING LEFT TURN

MD 450 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION.

## ST. PIUS SCHOOL ENTRANCE




NOTES

1. ALL PAVEMENT MARKINGS SHOWN ARE PROPOSED AND UNLESS OTHERWISE NOTED, ARE TO BE INSTALLED BY OTHERS IN ACCORDANCE WITH S.H.A. STANDARDS

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 |

RIGHT OF WAY

CONSTRUCTION DETAILS:

A. INSTALL A NEMA SIZE "6" CABINET AND CONTROLLER BASE MOUNT, WITH ALL NECESSARY CONTROL AND DISTRIBUTION EQUIPMENT AND VIDEO DETECTION SYSTEM TO BE INSTALLED BY SHA.

A B. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, TWIN 38/70 FT. MAST ARMS, VEHICULAR SIGNAL HEADS, VIDEO TRAFFIC CAMERAS, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, AND SIGNS. INSTALL 20 FT. LIGHTING ARM ABOVE THE EB APPROACH MAST ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE.

A C. INSTALL 27 FT. STEEL POLE WITH 3 IN. ELBOW, 60 FT. MAST ARM, VEHICULAR SIGNAL HEADS, OPTICOM DETECTOR EYE, PEDESTRIAN SIGNAL HEADS, SIGNS, AND 20 FT. LIGHTING ARM WITH A 250 WATT HPS LAMP AND LUMINAIRE. ALSO CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE.

A D. INSTALL 14 FT. BREAKAWAY PEDESTAL POLE WITH 2 IN. ELBOW, PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, AND SIGN.

E. INSTALL HANDHOLE.

F. INSTALL 3 IN. (SCH 80) PVC ELECTRICAL CONDUIT-TRENCHED.

G. INSTALL 3 IN. (SCH 80) PVC ELECTRICAL CONDUIT-BORED.

H. INSTALL 4 IN. (SCH 80) PVC ELECTRICAL CONDUIT-TRENCHED.

J. INSTALL 4 IN. (SCH 80) PVC ELECTRICAL CONDUIT-BORED.

K. INSTALL 4 IN. (SCH 80) PVC ELECTRICAL CONDUIT-SLOTTED.

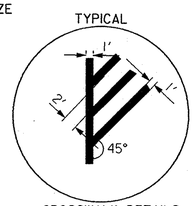
L. INSTALL 12 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING FOR CROSSWALK.

M. INSTALL 24 IN. HEAT APPLIED THERMOPLASTIC WHITE PAVEMENT MARKING FOR STOP LINE.

N. INSTALL MICRO-LOOP NON INVASIVE PROBE SET WITH 1000 FT. LEAD IN.

1 O. INSTALL GROUND MOUNTED SIGNS (BACK TO BACK).

TYPICAL




CROSSWALK DETAILS

1 REDLINE NO. 1 5/6/02

2 ADDENDUM #2 10/11/2001

ULTIMATE SIGNAL

| REVISIONS | APPROVALS |
|---|---|
| | 12-5-01 TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION |
| | 12/6/01 ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION |
| | 12-10-01 CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION |
| | 12-10-01 DIRECTOR, TRAFFIC & SAFETY |

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

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

MD 450 - MD 193 TO STONYBROOK DRIVE
MD 450 AT ST PIUS SCHOOL - ULTIMATE SIGNAL

| | | | | | |
|---|---|---|---|---|---|
| DRAWN BY: | MB | F.A.P. NO. | SEE TITLE SHEET | TS NO. | |
| CHECKED BY: | STB | S.H.A. NO. | PG9005571 | | SHEET NO. |
| SCALE: | 1"=20' | COUNTY: | PRINCE GEORGE'S | T.I.M.S. NO. | |
| DATE: | OCTOBER 2001 | LOG MILE: | | D 538 | 421 OF 545 |

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