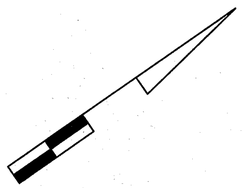
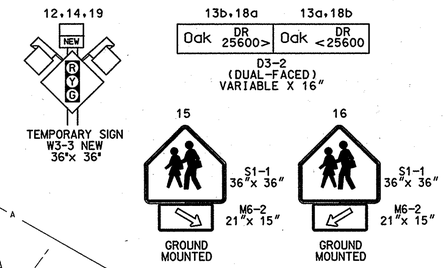


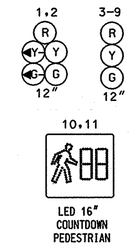
NOTE: MD 27 IS CONSIDERED TO RUN IN A NORTH / SOUTH DIRECTION

PROPOSED SIGNS (con't)

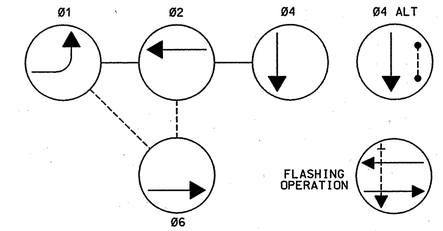
PROPOSED SIGNS



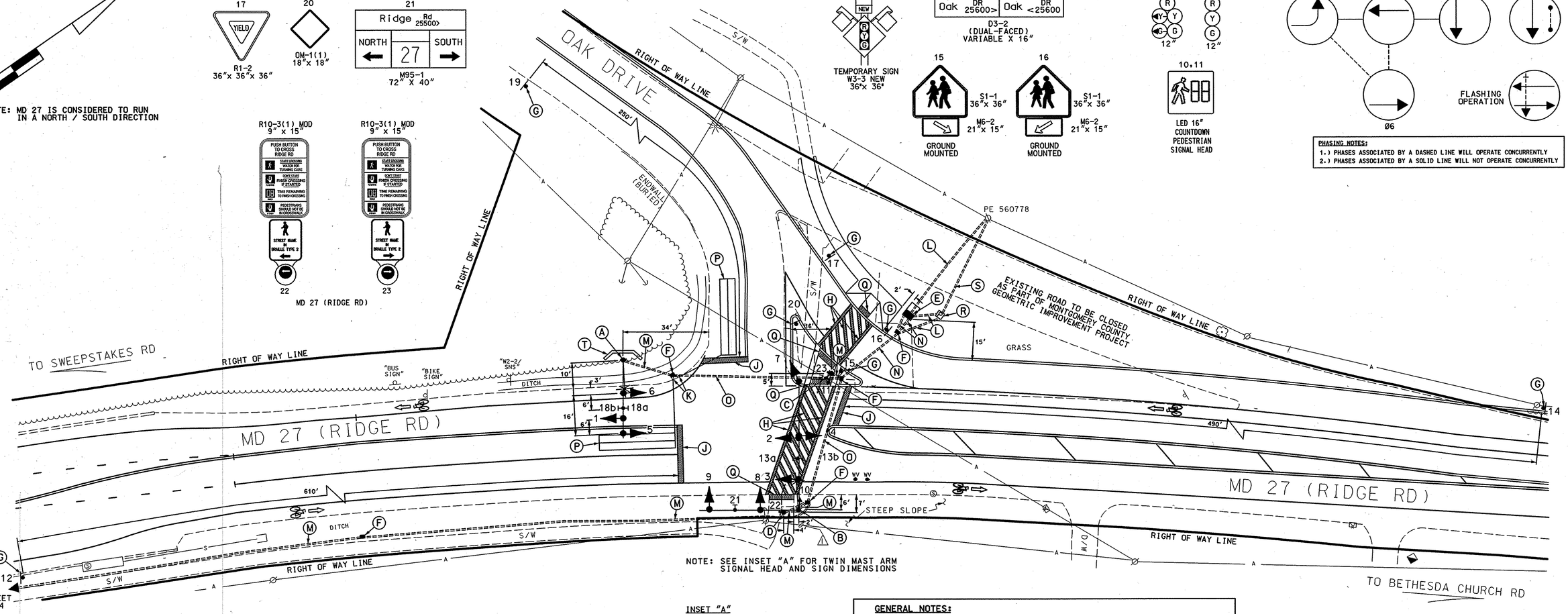
PROPOSED SIGNALS



NEMA PHASING



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



NOTE: SEE INSET "A" FOR TWIN MAST ARM SIGNAL HEAD AND SIGN DIMENSIONS

CONSTRUCTION DETAILS

A. Install 27' steel pole with a 38' (cut to 30') mast arm, traffic signal heads, sign, 10' lighting arm with 250 watt HPS luminaire as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 27' steel pole with a twin 50' / 50' (arm for Oak Drive to be cut to 38') mast arms, traffic signal heads, signs, 10' lighting arm with 250 watt HPS luminaire and countdown pedestrian signal head as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

C. Install 10' breakaway pedestal pole, countdown pedestrian signal head, audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Install 5' breakaway pedestal pole and audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

E. Install NEMA size "6" base-mounted cabinet and controller with 2-wire Central Control Unit, one (1) 4-channel detector amplifier and all necessary equipment as shown.

F. Install handhole.

G. Install ground mounted sign as shown.

H. Install 12" white heat applied preformed theromplastic pavement marking. (Crosswalk)

J. Install 24" white heat applied preformed theromplastic pavement marking. (Stopline)

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

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

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

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

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

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

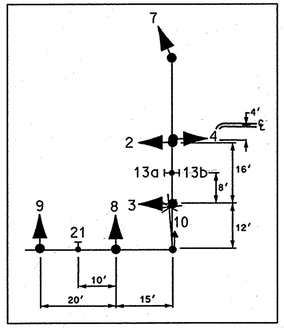
Q. Install detectable warning surfaces (Md Standard 655.40) as shown.

R. Install metered pedestal for electrical service by Allegheny Power.

S. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored) with 3" PVC (Schedule 40) sweep at base of utility pole.

T. Install retaining wall using 4"x 6" wood posts layed on end. (Approximately 3' high, 8' long with 4' wings.)

INSET "A"
SIGNAL HEAD AND SIGN DIMENSIONS



GENERAL NOTES:

1. 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.

2. All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in MD 818.01, MD 818.02 MD 818.03 & MD 818.04. The contractor shall verify ultimate grades prior to the installation of all signal equipment.

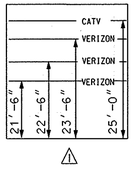
3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards.

4. The loop detectors and conduit shall be installed prior to the installation of the pavement markings.

5. If the location of Accessible Pedestrian Signal Pushbuttons must be changed the contractor shall notify the Project Engineer to get approval for new location to ensure proper requirements of the MUTCD are still met. All work must be halted until the Project Engineer has obtained an approved location or if necessary a design waiver is obtained.

5. Poles are to be located so that they can be activated by a person in a wheelchair from a 60"x 60" level landing area. A level landing area is an area with a cross slope of less than or equal to 2%.

OVERHEAD UTILITY HEIGHTS



SHA NO: MO579A58/C58/M58
TOD NO:AT910-15M
MD 27: OAK DRIVE TO VALLEY PARK DRIVE

GEOMETRIC LEGEND	
PROPOSED	
EXISTING	

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	A
ELECTRIC	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637

5139.dgn

APPROVALS	
TEAM LEADER	Jeff Hawkins for DD
ASST. DIV. CHIEF	Mickey Rotan 4-11-07
DIVISION CHIEF	Woods Wood 4/12/07
OFFICE DIRECTOR	4/12/07

REVISIONS

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 27 (RIDGE RD) AND OAK DRIVE

DAMASCUS, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 4/3/07 CONTRACT NO. AT9105185

DESIGNED BY R R ZACHERL
DRAWN BY W J NIES
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15002704.66
TIMS NO. H934
TOD NO.

TS NO. 4563 | DRAWING NO. 1 OF 4 | SHEET NO. OF

BORDER REV: DATE: June 1, 2004

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