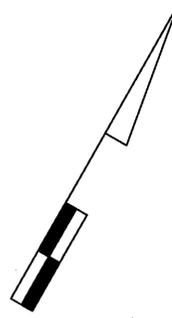


DRILL HOLES

DRILL HOLES

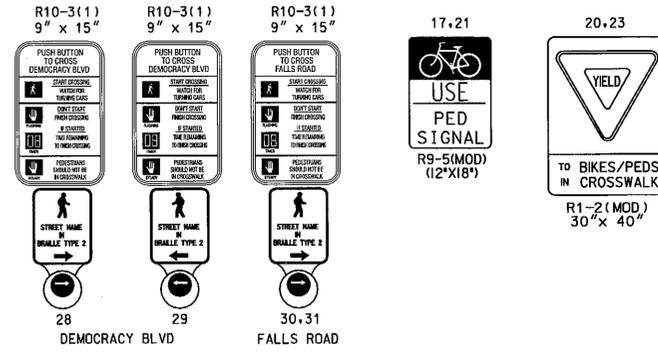
DRILL HOLES

BORDER REV. DATE: June 1, 2004

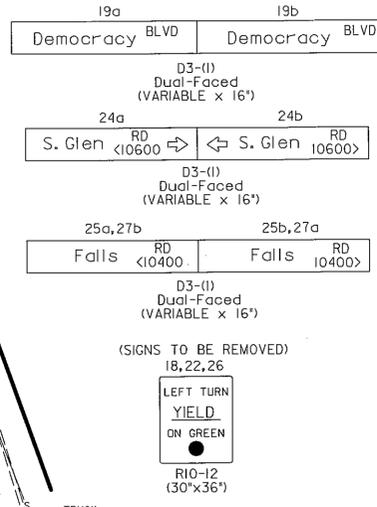


NOTE: MD 189 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

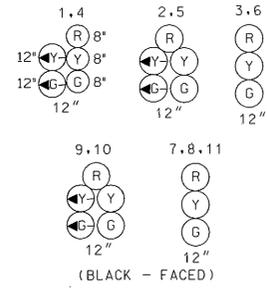
PROPOSED SIGNS



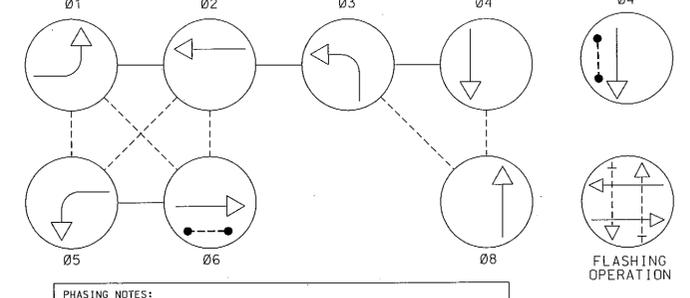
EXISTING SIGNS



EXISTING SIGNALS

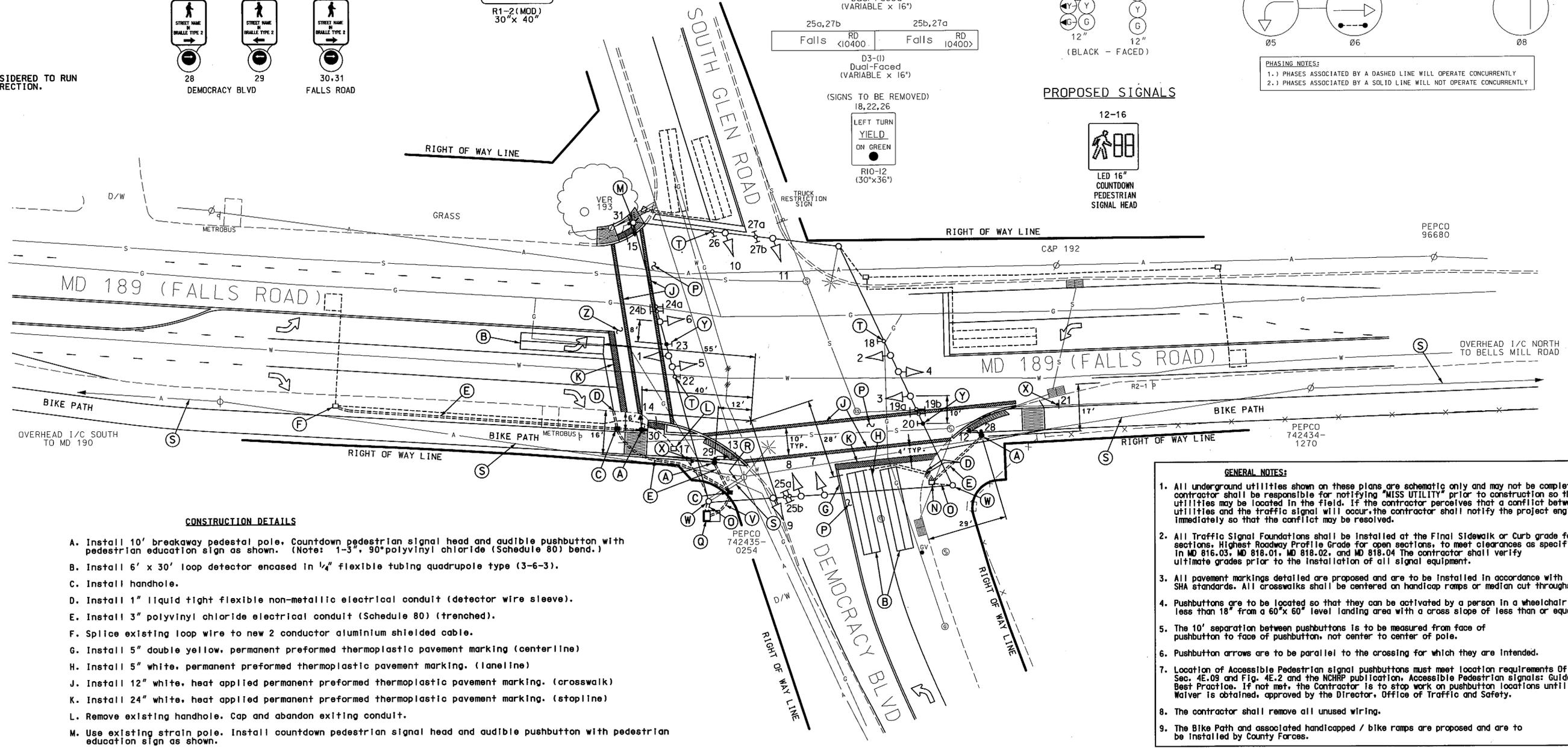


NEMA PHASING



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

PROPOSED SIGNALS



CONSTRUCTION DETAILS

- A. Install 10' breakaway pedestal pole. Countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)
B. Install 6' x 30' loop detector encased in 1/4" flexible tubing quadrupole type (3-6-3).
C. Install handhole.
D. Install 1" liquid tight flexible non-metallic electrical conduit (detector wire sleeve).
E. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).
F. Splice existing loop wire to new 2 conductor aluminum shielded cable.
G. Install 5" double yellow, permanent preformed thermoplastic pavement marking (centerline)
H. Install 5" white, permanent preformed thermoplastic pavement marking. (laneline)
J. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk)
K. Install 24" white, heat applied permanent preformed thermoplastic pavement marking. (stopline)
L. Remove existing handhole. Cap and abandon exiting conduit.
M. Use existing strain pole. Install countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown.
N. Use existing handhole.
O. Use existing conduit.
P. Remove existing stopline and/or crosswalk pavement marking.
Q. Use existing base-mounted cabinet and controller. Install 4" elbow into existing cabinet base.
R. Existing overhead electrical service maintained by PEPCO.
S. Existing overhead interconnect cable.
T. Remove existing overhead sign.
U. Remove existing overhead sign and install new overhead sign in same location as shown.
V. Install 4" polyvinyl chloride electrical conduit (schedule 80) (trenched).
W. Use existing strain pole.
X. Install ground mounted R9-5(mod) sign as shown.
Y. Install R1-2(mod) sign on existing span wire as shown.
Z. Remove existing centerline.

- 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 816.03, MD 818.01, MD 818.02, and 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. All crosswalks shall be centered on handicap ramps or median cut throughs.
4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60" x 60" level landing area with a cross slope of less than or equal to 2%.
5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.
6. Pushbutton arrows are to be parallel to the crossing for which they are intended.
7. 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 Practices. 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.
8. The contractor shall remove all unused wiring.
9. The Bike Path and associated handicapped / bike ramps are proposed and are to be installed by County Forces.

Table with 2 columns: LEGEND and LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES. Lists symbols for proposed and existing geometric features and utilities like aerial cable, electric, gas, sewer, water, and cable TV.

REVISION "D" logo for STREET TRAFFIC STUDIES, LTD. with contact information: 400 Crain Hwy., NW, Glen Burnie, MD 21061, Ph (410) 590-5500, Fax (410) 590-6637.

APPROVALS table with columns for TEAM LEADER, ASST. DIVISION CHIEF, DIVISION CHIEF, and OFFICE DIRECTOR. Includes a diagonal stamp: ORIGINAL ON FILE.

REVISIONS table with columns for description, date, and initials. Includes notes about adding south and east left turn phases and installing leading vehicle exclusive/permissive left phasing.

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION. Project title: MD 189 (FALLS RD) AND DEMOCRACY BLVD / SOUTH GLEN RD. POTOMAC, MARYLAND. TRAFFIC SIGNAL PLAN. SCALE 1"=20'. DATE 7-96. CONTRACT NO. DESIGNED BY TMZ. COUNTY MONTGOMERY. DRAWN BY [signature]. TOWNSHIP LGMILE 15018902.66. CHECKED BY [signature]. TMS NO. 1807. F.A.P. NO. TOD NO. TS NO. 3878D. DRAWING NO. 1 OF 2. SHEET NO. OF.