DRILL HOLES

BORDER REV: DATE: June 1, 2004

MD 189 IS CONSIDERED TO RUN IN A NORTH-SOUTH DIRECTION.

PROPOSED SIGNS

19.23 — USE PED SIGNAL — R9-5(MOD) 12"X18"

22.24 — S1-1 36" x 36" — W16-7p(L) 24" x 12"

20.25 — YIELD — TO BIKES/PEDS IN CROSSWALK — R1-2(MOD) 30"x 40"

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS FALLS ROAD — STREET NAME IN BRAILLE TYPE 2 — 33

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS FALLS ROAD — STREET NAME IN BRAILLE TYPE 2 — 34

FALLS ROAD

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS TUCKERMAN LANE — STREET NAME IN BRAILLE TYPE 2 — 35

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS TUCKERMAN LANE — STREET NAME IN BRAILLE TYPE 2 — 36

TUCKERMAN LANE

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS FALLS CHAPEL WAY — STREET NAME IN BRAILLE TYPE 2 — 37

R10-4(1) MOD 9" x 15" — PUSH BUTTON TO CROSS FALLS CHAPEL WAY — STREET NAME IN BRAILLE TYPE 2 — 38

FALLS CHAPEL WAY

EXISTING SIGNS

21a.26b — ← Falls Chapel Way / Tuckerman Lane →

21b.26a — ← Tuckerman Lane / Falls Chapel Way →

D3-2 32" x Var. DUAL FACED

29.32 — ONLY — R3-5(L) 30" x 36"

27 — SOUTH MARYLAND 189 — ASSOCIATED ASSEMBLY SIGN 30" x 51"

28 — NORTH MARYLAND 189 — ASSOCIATED ASSEMBLY SIGN 48" x 75"

30 — NORTH MARYLAND 189 — ASSOCIATED ASSEMBLY SIGN 30" x 51"

31 — SOUTH MARYLAND 189 — ASSOCIATED ASSEMBLY SIGN 48" x 75"

EXISTING SIGNALS

1,2,4,5,7,8,10,11 — R Y G — 12"

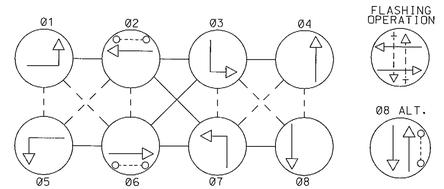
3,6,9,12 — R Y G — 12"

VD - VIDEO DETECTION CAMERA (a-d)

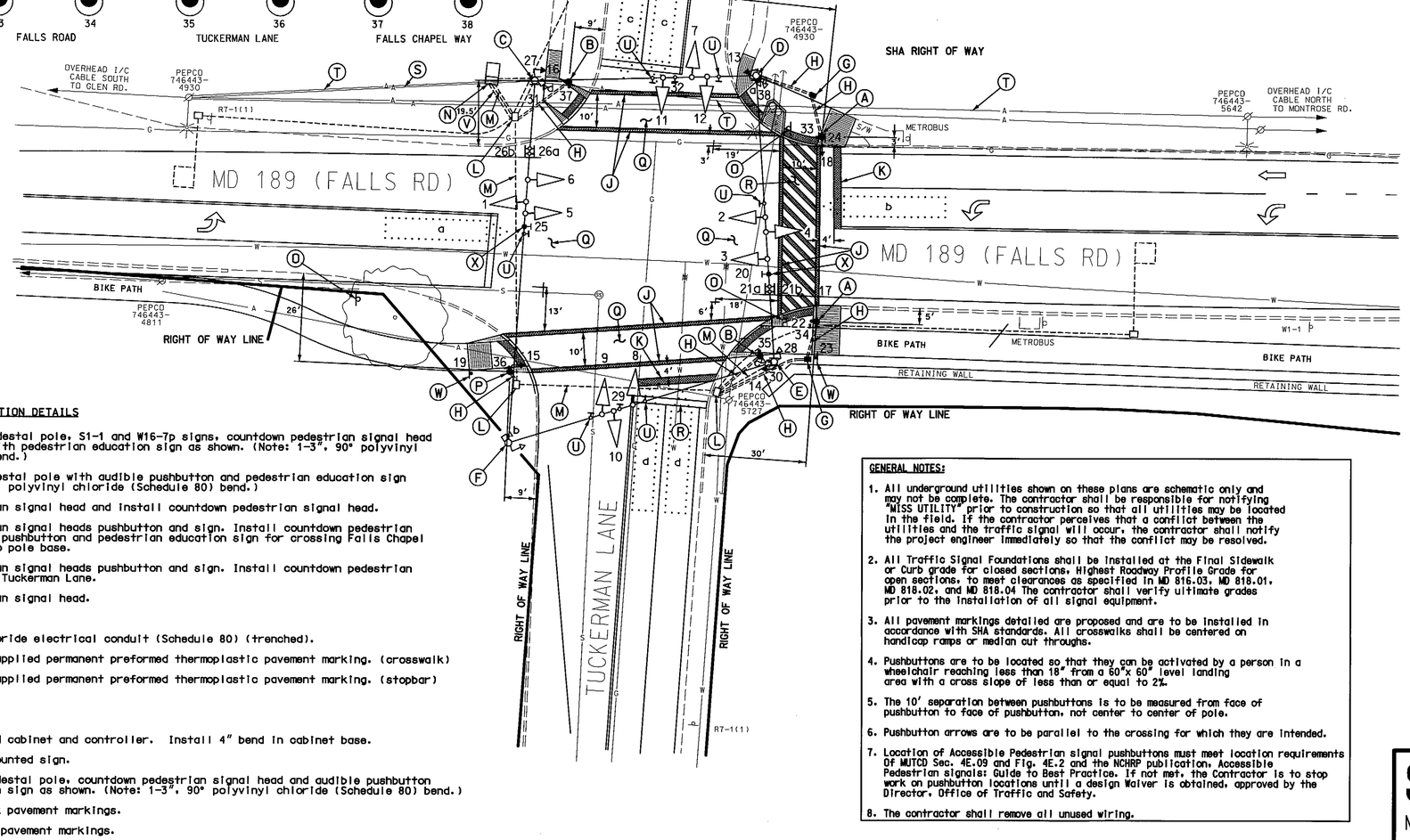
PROPOSED SIGNALS

13-18 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

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



CONSTRUCTION DETAILS

A. Install 10' breakaway pedestal pole, S1-1 and W16-7p signs, countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

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

C. Remove existing pedestrian signal head and install countdown pedestrian signal head.

D. Remove existing pedestrian signal heads pushbutton and sign. Install countdown pedestrian signal head with audible pushbutton and pedestrian education sign for crossing Falls Chapel Way. Install 3" bend into pole base.

E. Remove existing pedestrian signal heads pushbutton and sign. Install countdown pedestrian signal head for crossing Tuckerman Lane.

F. Remove existing pedestrian signal head.

G. Install handhole.

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

J. Install 12" white, heat applied permanent preformed thermoplastic pavement marking. (crosswalk)

K. Install 24" white, heat applied permanent preformed thermoplastic pavement marking. (stopbar)

L. Use existing handhole.

M. Use existing conduit.

N. Use existing base mounted cabinet and controller. Install 4" bend in cabinet base.

O. Remove existing ground mounted sign.

P. 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.)

Q. Remove existing crosswalk pavement markings.

R. Remove existing stopline pavement markings.

S. Existing overhead electrical service to be maintained by PEPCO.

T. Existing overhead interconnect cable to remain.

U. Remove existing overhead sign.

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

W. Install ground mounted R9-5(mod) sign as shown.

X. Install R1-2(mod) sign on existing span wire 4' from signal head as shown.

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 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.
8. The contractor shall remove all unused wiring.

GEOMETRIC LEGEND
PROPOSED
EXISTING

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

REVISION E

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5151E.dgn

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

REVISIONS
E 11-30-09 ADD APS, CPS, RAMPS AND BIKE PATH SHA NO.: BW996M82 RRZ
D 12/04 REPLACE LOOPS WITH VIDEO DETECTION CAMERAS SHA NO.: M0717516S WM MAR DAZ
C 1/03 INSTALL EB L/T PHASE , EB FALLS CHAPEL ROAD SHA NO.: RRZ

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 189 (FALLS ROAD) AND FALLS CHAPEL WAY / TUCKERMAN LANE

ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE CONTRACT NO. M0717A57/B57

DESIGNED BY
DRAWN BY
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15018904.68
TIMS NO. 1807
TOD NO.

TS NO.1569E | DRAWING NO. 1 OF 2 | SHEET NO. OF