DRILL HOLES

BORDER REV: DATE: June 1, 2004

PROPOSED SIGNS

MD 396 IS ASSUMED TO RUN IN AN EAST/WEST DIRECTION

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS MASSACHUSETTS AVE — START CROSSING / WAITING FOR TURNING CARS / CONTINUE CROSSING / 8 SECONDS TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN CROSSWALK — STREET NAME IN BRAILLE TYPE 2 — 22, 23

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS LITTLE FALLS PKWY — START CROSSING / WAITING FOR TURNING CARS / CONTINUE CROSSING / 8 SECONDS TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN CROSSWALK — STREET NAME IN BRAILLE TYPE 2 — 24, 25

MASSACHUSETTS AVE

LITTLE FALLS PKWY

13 — 7:00-9:00 AM 4:00-6:00 PM MONDAY - FRIDAY — R3-2(2) 24" X 36"

18 — ONLY — R3-5L 30"x 36"

16,20 — NO TURN ON RED — R10-11b 24" x 24"

19 — ONLY — R3-6 30" X 36"

21 — S2-1 30" x 30" B/Y; M6-2 21" x 15" B/W

15a,14b — Little Falls Pkwy <5400> | 14a,15b — Little Falls Pkwy <5400>

D3-2 (DUAL-FACED) VARIABLE X 16"

17 — Massachusetts Ave <5400>

D3-2 VARIABLE X 16"

PROPOSED SIGNALS

1-5,7,8 — R Y G — 12"

6 — R Y Y G G — 12"

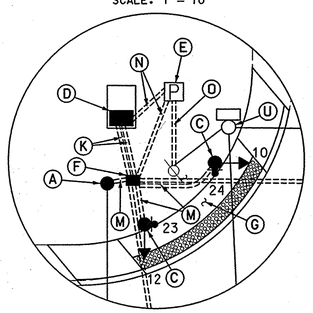
9-12 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

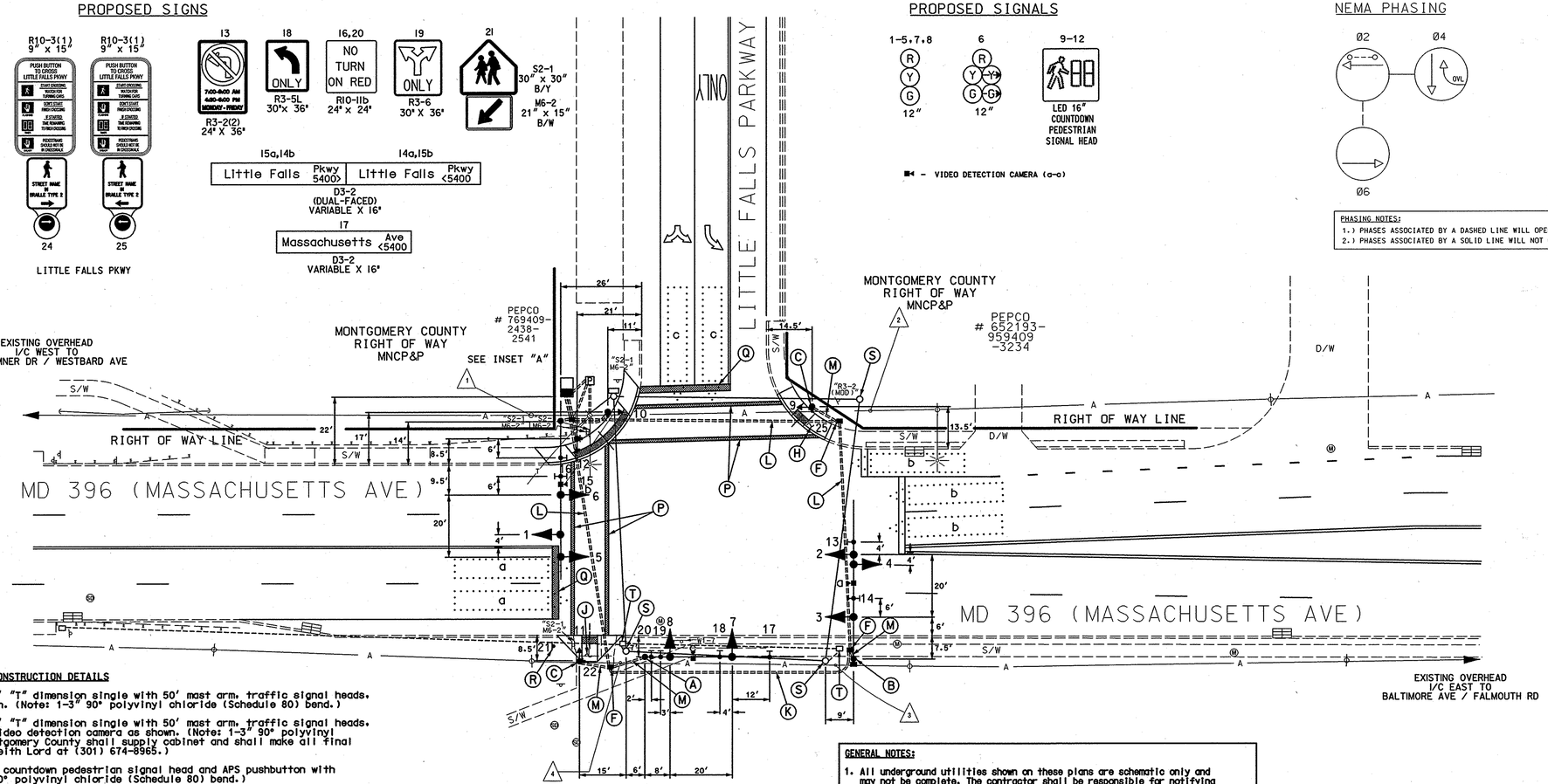
■◄ – VIDEO DETECTION CAMERA (a-c)

NEMA PHASING

Ø2 Ø4 Ø6 Ø4 ALT. — FLASHING OPERATION

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 16' steel pole with a special 15' "T" dimension single with 50' mast arm, traffic signal heads, signs and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 16' steel pole with a special 15' "T" dimension single with 50' mast arm, traffic signal heads, signs, pole mounted splice cabinet and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.) (Note: Montgomery County shall supply cabinet and shall make all final connections in splice cabinet. Contact Keith Lord at (301) 674-8965.)

C. Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

D. Install NEMA size "6" base-mounted cabinet and controller with video interface. 2-wire Control unit and all necessary equipment as shown.

E. Install metered pedestal.

F. Install handhole.

G. Install proposed parallel handicap ramp (STD. No. MD 655.12) with a 22' flat area and detectable warning surface (STD. No. MD 655.40) as shown.

H. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40) as shown.

J. Install proposed perpendicular handicap ramp (STD. No. MD 655.11) with detectable warning surface (STD. No. MD 655.40) as shown. (Note: Contractor shall remove existing ground mounted signs before constructing ramp.)

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

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

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

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

1 O. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched) with 50' of ~~3 wire~~ 1 conductor (No. 250 KCMIL) for proposed underground electrical power service by PEPCO to base of utility pole.

P. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk) (Note: Contractor shall remove any existing crosswalks.)

Q. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline). (Note: Contractor shall remove any existing stoplines.)

R. Install proposed sign on 4"x4" wood post.

S. Remove existing steel pole, foundation 12' below grade and all attached equipment.

T. Remove existing handhole and cap existing conduit.

U. Remove existing pole mounted cabinet and foundation 12' below grade. (Note: Montgomery County Forces shall remove controller and any auxilliary equipment).

1 AERIAL CABLE DETAIL

PRIMARY	40' 0"
SECONDARY	32' 3"
SECONDARY	31' 7"
SECONDARY	30' 2"
CATV	28' 0"
TELEPHONE	26' 5"
TELEPHONE	24' 7"
TELEPHONE	22' 2"

2 AERIAL CABLE DETAIL

PRIMARY	40' 0"
SECONDARY	32' 3"
SECONDARY	31' 7"
SECONDARY	30' 2"
CABLE	21' 5"
TELEPHONE	19' 6"
TELEPHONE	19' 2"
TELEPHONE	18' 3"
TELEPHONE	17' 2"

3 AERIAL CABLE DETAIL

SECONDARY	22' 5"
CABLE	21' 1"

4 AERIAL CABLE DETAIL

CABLE	20' 0"

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. 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%.
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 necesary a design waiver is obtained.
6. Pushbutton is to be located so that a pedestrian in a wheelchair located on the level landing area, does not have to reach more than 18".
7. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton.
8. The contractor shall remove all unused wiring.

1 ADDENDUM 1: DATE: 10-16-07

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

REVISION "B"

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

5309.dgn T-86

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

REVISIONS

B 6/18/07 RECONSTRUCT TRAFFIC SIGNAL, ADD APS & CPS S.H.A. NO.: MD2825185 JWA

A 11/06 INSTALL COUNTDOWN PEDS,APS AND ADA RAMP S.H.A. NO: AT7825185 TIMS NO: H814 MAM

PLOTTED: $DATETIME$
FILE: $FILE$

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 396 (MASSACHUSETTS AVE) AND LITTLE FALLS PARKWAY

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 8/30/2006 CONTRACT NO.

DESIGNED BY N/A — COUNTY MONTGOMERY
DRAWN BY N/A — LOGMILE 15039601.54
CHECKED BY N/A — TIMS NO. H433
F.A.P. NO. AC-STPG-000A(241)E — TOD NO.

TS NO. 4600 | DRAWING NO. 1 OF 3 | SHEET NO. 19 OF 42

9/10/2007 2:32:21 PM