DRILL HOLES

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BORDER REV: DATE: June 1, 2004

## PROPOSED SIGNS

21,22

| | |
|---|---|
| ⇦ Rollins | Ave <100 |
| Twinbrook | Pkwy 12300> ⇨ |

D3-2 (VARIABLE X 32")

23,24

| | |
|---|---|
| ⇦ Twinbrook | Pkwy <12300 |
| Rollins | Ave 100> ⇨ |

D3-2 (VARIABLE X 32")

NOTE:
MD 355 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

25,28
NO TURN ON RED
R10-1lb
24" x 24"

26,27,37,38
R3-2
30" x 30"

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ROCKVILLE PIKE — START CROSSING / WAIT FOR GAPS / DON'T START / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 29,31

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ROCKVILLE PIKE — START CROSSING / WAIT FOR GAPS / DON'T START / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 30,32

MD 355 (ROCKVILLE PIKE)

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS TWINBROOK PARKWAY — START CROSSING / WAIT FOR GAPS / DON'T START / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 33

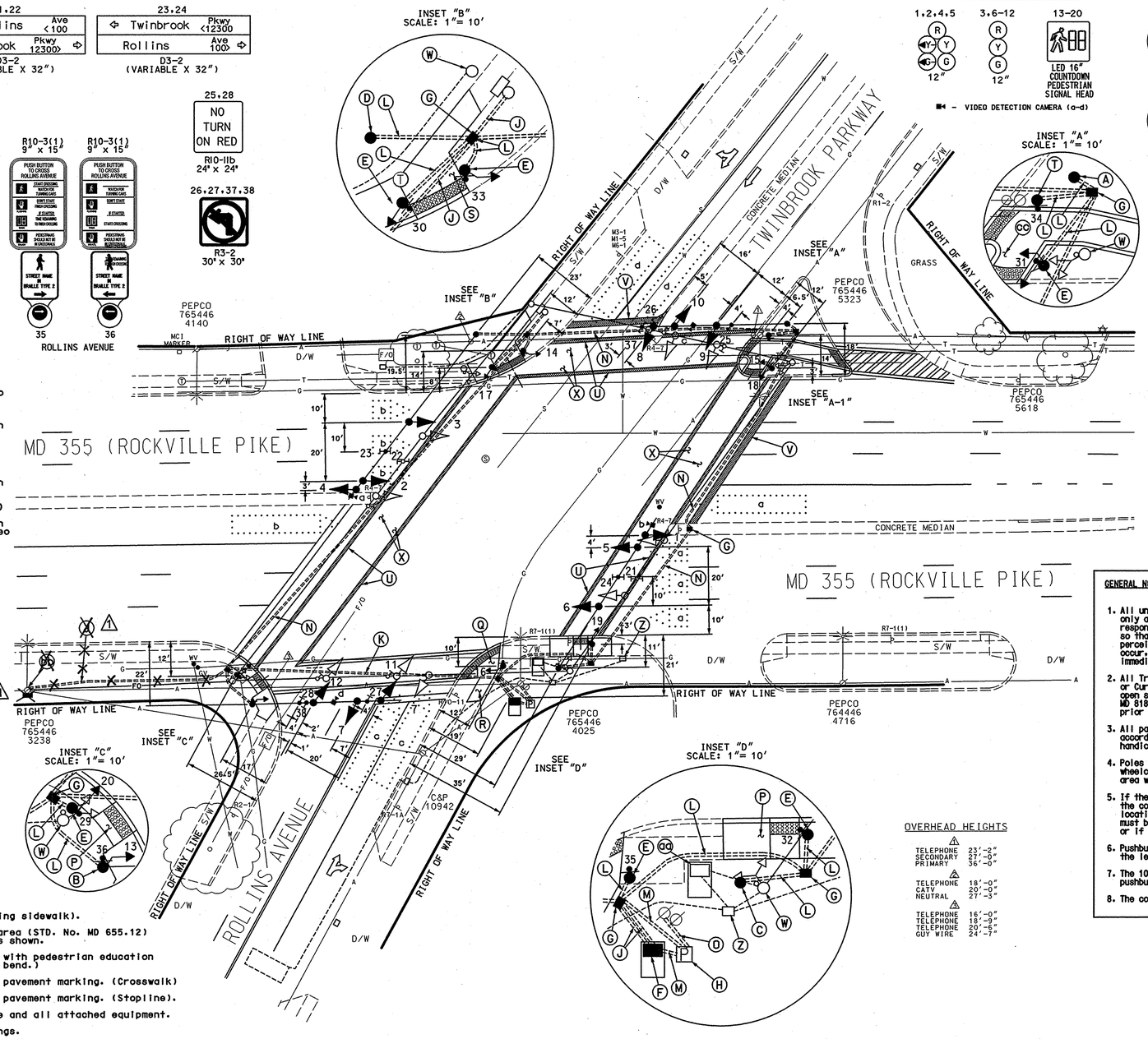
R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS TWINBROOK PARKWAY — START CROSSING / WAIT FOR GAPS / DON'T START / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 34

TWINBROOK PARKWAY

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ROLLINS AVENUE — START CROSSING / WAIT FOR GAPS / DON'T START / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 35

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ROLLINS AVENUE — WAIT FOR GAPS / START CROSSING / FINISH CROSSING / IF STARTED TIME REMAINING TO FINISH CROSSING / PEDESTRIANS SHOULD NOT BE IN ROADWAY — STREET NAME IN BRAILLE TYPE 2 — 36

ROLLINS AVENUE




## PROPOSED SIGNALS

1,2,4,5 — R, Y, G — 12"

3,6-12 — R, Y, G — 12"

13-20 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

◄ – VIDEO DETECTION CAMERA (a-d)

## NEMA PHASING

Ø1 Ø2 Ø4 ALT Ø4 Ø5 Ø6 Ø8 ALT Ø8

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 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 with 50' mast arm, traffic signal heads, signs, video detection camera, countdown pedestrian signal head and APS pushbutton with pedestrian education sign as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

C. Install 16' steel pole with a special 15' "T" dimension with 60' mast arm, traffic signal heads, sign, and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

D. Install 16' steel pole with a special 15' "T" dimension with 70' mast arm, traffic signal heads, sign, and video detection camera as shown. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

E. 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.)

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

G. Install handhole.

H. Install metered pedestal.

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

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

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

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

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

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

Q. Install depressed sidewalk and curb with detectable warning surfaces (STD. No. MD 655.40) as shown.

R. Install depressed sidewalk and curb with detectable warning surfaces (STD. No. MD 655.40) as shown. (Note: Depressed sidewalk shall slope 2% to meet existing sidewalk).

S. Install proposed parallel handicap ramp with 10' flat area (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40) as shown.

T. Install 10' breakaway pedestal pole and APS pushbutton with pedestrian education sign. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

U. Install 12" white heat applied preformed thermoplastic pavement marking. (Crosswalk)

V. Install 24" white heat applied preformed thermoplastic pavement marking. (Stopline).

W. Remove existing strain pole, foundation 12' below grade and all attached equipment.

X. Remove existing stop line and crosswalk pavement markings.

Y. Remove existing crosswalk pavement markings.

Z. Remove existing handhole. Cap existing conduit.

aa. Remove existing base mounted cabinet and foundation. (Note: Montgomery County shall remove controller and auxilliary equipment).

1 ~~bb. Install 15' 4" PVC riser, 4" weatherhead and splice cabinet, for interconnect cable, onto existing utility pole. Pull back overhead interconnect cable to this location and terminate in splice cabinet. (Note: Montgomery County shall supply cabinet and shall make all final connections in splice cabinet. Contact Keith Lord (301) 674-8965.)~~

cc. Install island openings (STD. No. MD 655.21) at existing island with detectable warning surface (STD. No. MD 655.40). Contractor shall make walkway of island a 48:1 slope. (See Inset "A-1")

1 ADDENDUM 1: DATE: 10-16-07

### OVERHEAD HEIGHTS

1
TELEPHONE 23'-2"
SECONDARY 27'-0"
PRIMARY 36'-0"

2
TELEPHONE 18'-0"
CATV 20'-0"
NEUTRAL 27'-3"

3
TELEPHONE 16'-0"
TELEPHONE 18'-9"
TELEPHONE 20'-6"
GUY WIRE 24'-7"

### 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 818.03, 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.

| 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— |

REVISIONS "A"

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

5187.dgn T-53

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

| REVISIONS | |
|---|---|
| A | RECONSTRUCT EXISTING TRAFFIC SIGNAL WITH APS & CPS SHA NO. FMD2825185 — 6-18-07 — JWA |

PLOTTED: @DATETIME@
FILE: @FILE@

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

# MD 355 (ROCKVILLE PIKE) AND TWINBROOK PARKWAY / ROLLINS AVENUE

## TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE _____ CONTRACT NO. _____

DESIGNED BY MONT. CO. — COUNTY MONTGOMERY
DRAWN BY MONT. CO. — LOGMILE 15035507.11
CHECKED BY MONT. CO. — TIMS NO. H999
F.A.P. NO. AC-STPG-000A(241)E — TOD NO. _____

TS NO. 1077A | DRAWING NO. 1 OF 3 | SHEET NO. 8 OF 42

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