DRILL HOLES

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BORDER REV. DATE: June 1, 2004

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

EXISTING SIGNS (TO BE REMOVED)

24 — R3-5b, 60" x 36"

30,35 — R9-1mod, 48"x48"

41 — STATE LAW / STOP FOR PEDESTRIANS IN CROSSWALK

EXISTING SIGNS

27a,29b — D-3(1) VARIABLE X 16"

28,33 — R3-5L, 30" x 36"

29a,27b — D-3(1) VARIABLE X 16"

34 — R3-5R, 30" x 36"

36,39 — R10-11b, 24" x 24"

38 — R3-2, 30" x 30"

37 — R4-7, 24" x 30"

25,26 — R3-5L, 30"x 36"

40 — R3-5R, 30" x 36"

PROPOSED SIGNS

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS HUNGERFORD ROAD — 42,44

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS HUNGERFORD ROAD — 43,45

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS EAST MIDDLE LANE — 46

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS EAST MIDDLE LANE — 47

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS PARK ROAD — 48

R10-3(1), 9" x 15", PUSH BUTTON TO CROSS PARK ROAD — 49

31/32 — SOUTH / NORTH, MARYLAND 355 TO MARYLAND 355, MARYLAND 28

PROPOSED LED SIGNALS

1,2,3,6,7 — 12"

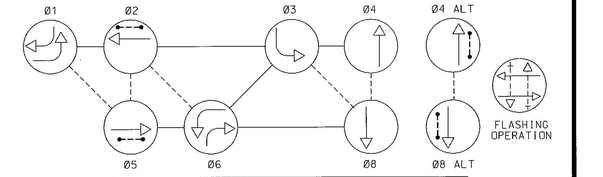
4,5,8,9 13,14 — 12"

10,11 — 12"

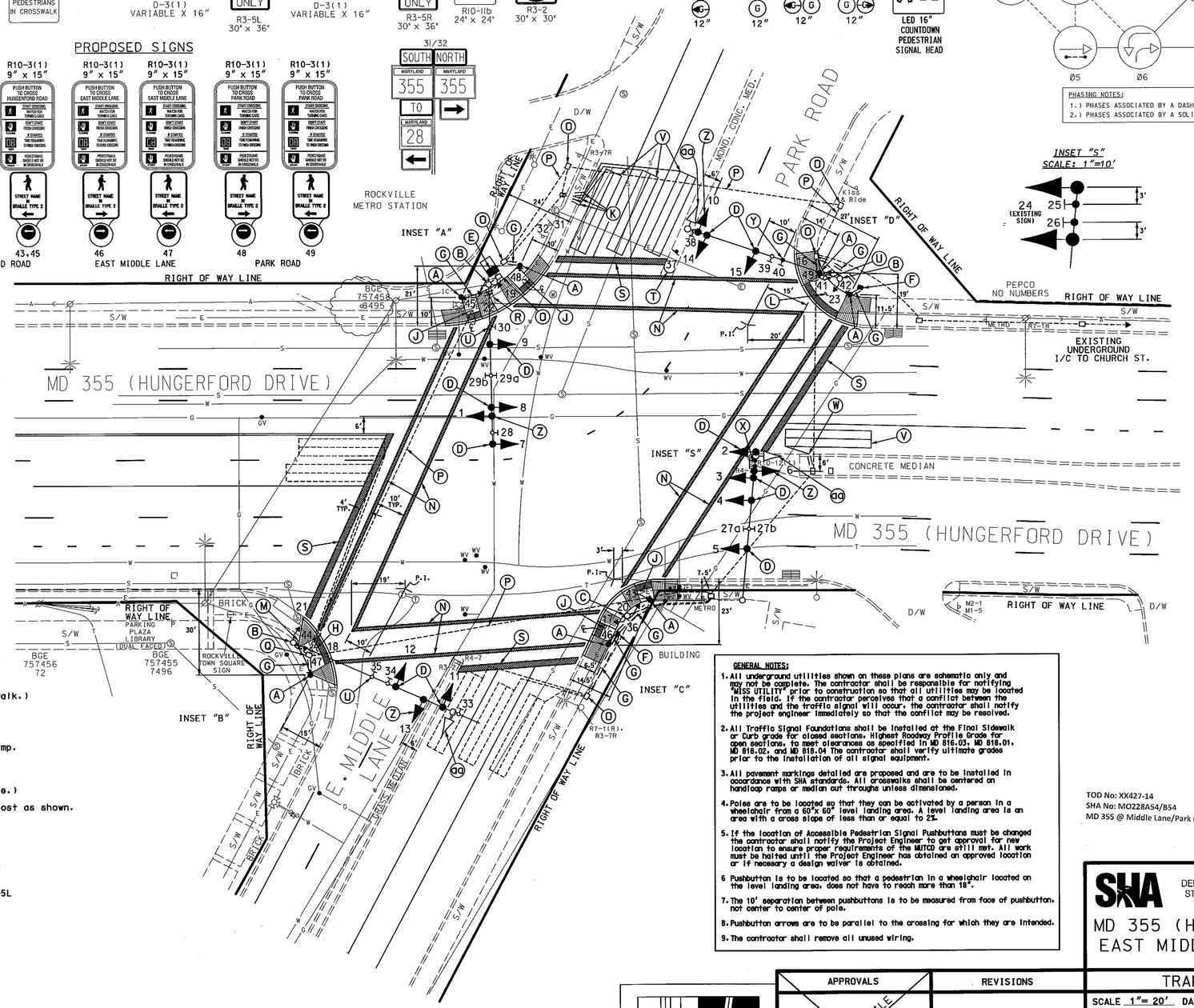
12,15 — 12"

16-23 — LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

NEMA PHASING

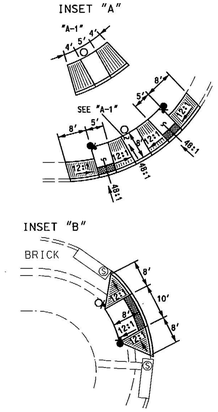


PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



INSET "S" SCALE: 1"=10'

RAMP DIMENSIONS SCALE: 1"= 20'



CONSTRUCTION DETAILS

A. Install 5'(18" breakaway coupling foundation STD No. 801.01-01) pedestal pole with APS pushbutton and pedestrian education sign. (Note: 1-3" 90° polyvinylchloride (Schedule 80) bend).

B. Remove existing pushbutton and pedestrian signal heads from mast arm pole and install countdown pedestrian signal heads as shown.

C. Remove existing pushbutton and pedestrian signal heads from pedestal pole and install countdown pedestrian signal heads as shown.

D. Remove existing signal head and install proposed LED signal heads on mast arm pole as shown.

E. Disconnect existing wiring, remove existing base mounted cabinet and install proposed NEMA size "6" base-mounted cabinet on existing base.

F. Install handhole.

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

H. Install proposed perpendicular handicap ramp with 10' wide flat area and detectable warning surface (STD. No. MD 655.40). (Note: The contractor is to adjust grade of concrete sidewalk and decorative bricks in area of proposed ramp.)

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

K. Install 1" galvanized conduit for detector sleeve.

L. Install proposed parallel handicap ramp with 11' wide flat area at back of sidewalk area (16' wide flat back of curb) and detectable warning surface (STD. No. MD 655.40).

M. Install APS pushbutton and pedestrian education sign on existing mast arm pole as shown.

N. Install 12" white heat applied preformed theromplastic pavement marking.(Crosswalk)(Note:Contractor shall remove existing crosswalk.)

O. Use existing handhole.

P. Use existing conduit.

Q. Use existing handhole and adjust to final grade with handicap ramp.

R. Pepco shall maintain existing overhead electrical service.

S. Install 24" white heat applied preformed theromplastic pavement marking.(Stopline)(Note:Contractor shall remove existing stopline.)

T. Cut back existing median nose 3' and install R4-7 sign on wood post as shown.

U. Remove existing overhead sign as shown.

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

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

X. Remove existing R3-5b overhead sign and install two separate R3-5L signs as shown.

Y. Install overhead sign as shown.

Z. Install proposed LED signal head on mast arm as shown.

aa. Remove existing 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 unless dimensioned.
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 necessary 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, not center to center of pole.
8. Pushbutton arrows are to be parallel to the crossing for which they are intended.
9. The contractor shall remove all unused wiring.

TOD No: XX427-14
SHA No: MO228A54/B54
MD 355 @ Middle Lane/Park Road

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 —

STREET TRAFFIC STUDIES, LTD.
400 Crofts Hwy.,NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637
5712.dgn T-233

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

REVISIONS
6 INSTALL APS, CPS, & LED SIGNAL HEADS 9/8/09
SHA #:1XX4275185 Time: J518
JWA RDB RDB/WS
5 RELOCATE MAST ARM POLE ON N.W. CORNER DUE TO GEOMETRIC CHANGES 6/2002
JAH MAR DAZ DAZ/BK TH

PLOTTED: @DATETIME@
FILE: @FILE@

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 355 (HUNGERFORD DRIVE) AND EAST MIDDLE LANE / PARK ROAD

ROCKVILLE, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 6-7-02 CONTRACT NO.

DESIGNED BY
DRAWN BY CA & MA
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15035509.45
TIMS NO. J518
TOD NO.

TS NO. 3780E | DRAWING NO. 1 OF 2 | SHEET NO. OF

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