DRILL HOLES

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BORDER REV: DATE: June 1, 2004

NOTE: MD 450 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

22,26 Cooper Ln D-3(1) (DUAL-FACED) VARIABLE X 16"

36,46 Annapolis Rd D-3(1) (DUAL-FACED) VARIABLE X 16"

35,45 ONLY R3-5 30"x 36"

32 EAST MARYLAND 450 M1-5(6) 30" x 48"

42 WEST MARYLAND 450 M1-5(6) 30" x 48"

34 WEST MARYLAND 450 M1-5(6) 48" x 72"

44 EAST MARYLAND 450 M1-5(6) 48" x 72"

PROPOSED SIGNS

21 S1-1 30"x 30" FY/G; W16-7p(L) 24" x 12" FY/G; GROUND MOUNTED

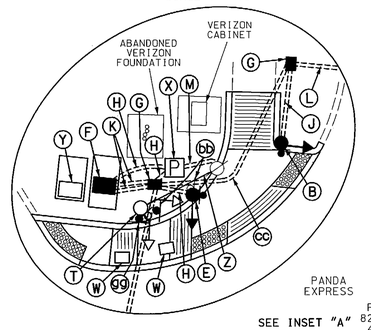
R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ANNAPOLIS RD — STREET NAME IN BRAILLE TYPE 2 — 48,50 MD 450 (ANNAPOLIS ROAD)

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS ANNAPOLIS RD — STREET NAME IN BRAILLE TYPE 2 — 49,51 MD 450 (ANNAPOLIS ROAD)

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS COOPER LANE — STREET NAME IN BRAILLE TYPE 2 — 52,54 COOPER LANE

R10-3(1) 9" x 15" — PUSH BUTTON TO CROSS COOPER LANE — STREET NAME IN BRAILLE TYPE 2 — 53,55 COOPER LANE

INSET "A" SCALE 1"= 10'



EXISTING SIGNS

29,37 — 23,25,28,30,39 — 24,27 — 31,38, 40,47 NO PARKING ANY TIME — 33 ONE WAY — 41,43 ONE WAY

PROPOSED LED SIGNALS

1,4 — 2,5 — 3,6,9,12 — 7,10 — 8,11 — 13-20 LED 16" COUNTDOWN PEDESTRIAN SIGNAL HEAD

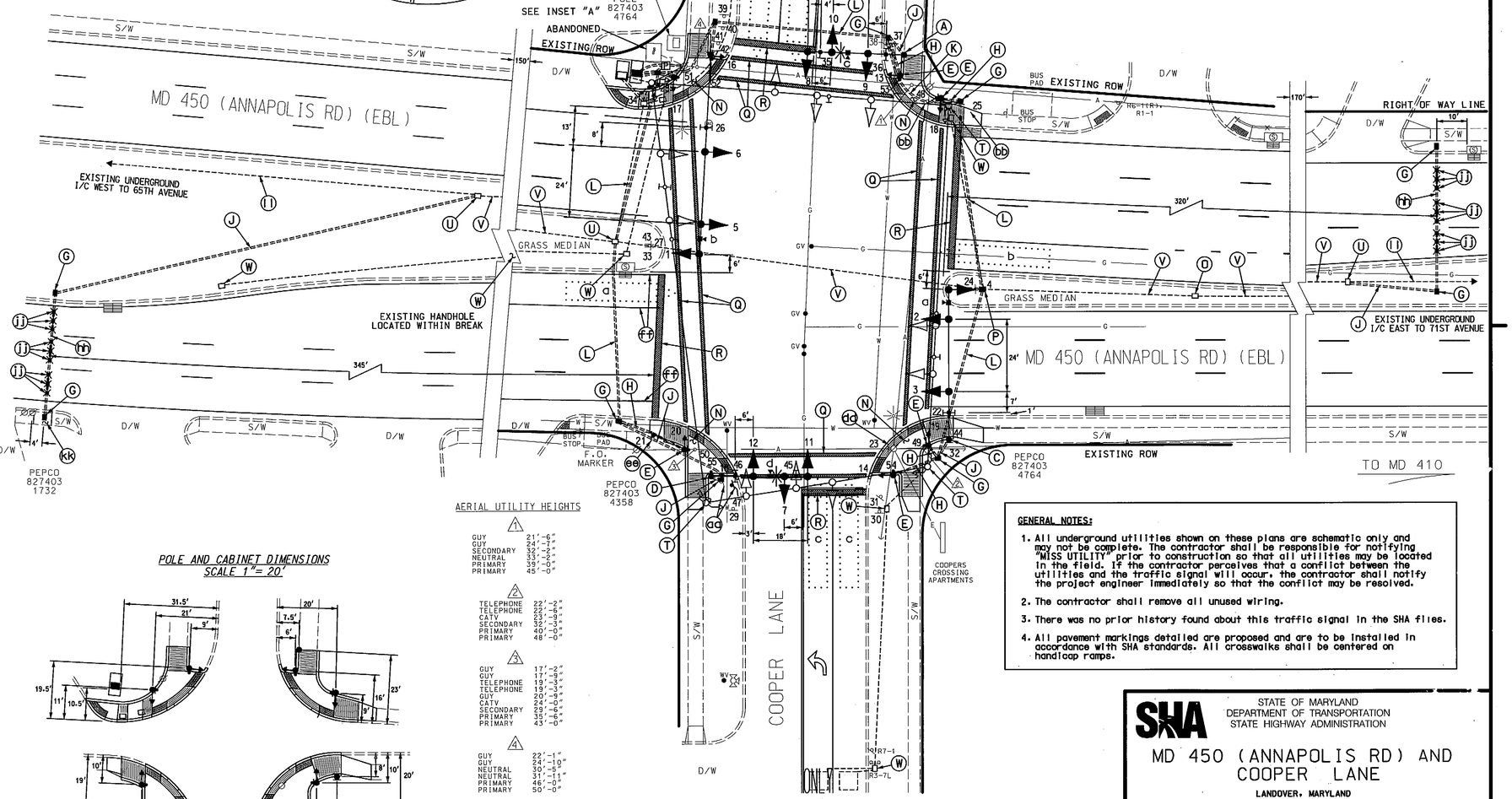
NEMA PHASING

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 Ø3 ALT 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

PROPOSED CAMERAS

■◄ - VIDEO DETECTION CAMERAS (a-d)



CONSTRUCTION DETAILS

A. Install 27' steel pole with a 38' mast arm, traffic signal heads, signs, and video detection camera 20' lighting arm with a 250W-HPS luminaire as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install 27' (cut to 21') steel pole with a 70' mast arm, traffic signal heads, video detection camera, sign, Countdown pedestrian signal head and audible pushbutton with pedestrian education signs as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

C. Install 27' (cut to 21') steel pole with a 60' mast arm, traffic signal heads, video detection camera 20' lighting arm with a 250W-HPS luminaire and signs as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

D. Install 27' (cut to 21') steel pole with a 38' mast arm, traffic signal heads, signs, video detection camera, Countdown pedestrian signal head and audible pushbutton with pedestrian education sign as shown. (Note: 1-3", 90° polyvinyl chloride (Schedule 80) bend.)

E. Install 10' pedestal pole (with breakaway coupling system, modified foundation (STD No. 801.01-01), Countdown pedestrian signal head, and audible pushbutton with pedestrian education sign as shown. (Note: 1-2", 90° polyvinyl chloride .Schedule 80) bend.)

F. Install Type "S" base-mounted cabinet and controller with video interface, Uninterrupted Power Supply (UPS) with battery back up and all necessary equipment as shown.

G. Install handhole.

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

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

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

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

M. Install 4" polyvinyl chloride electrical conduit (Schedule 80) with a 4" bend at the base of PEPCO pole #827403-4764. (Note: bend is to be installed on the northern side of the pole base.)

N. Install proposed sidewalk ramp (Note: See Sheet 2 of 3 "ADA Ramp Detail Plan").

O. Disconnect existing interconnect cable from controller heading east and pull back to this handhole. Reroute cable to proposed controller after rebuilding the handhole in the nose of the east median. (See Construction Detail "P", existing interconnect cable.)

P. Pull back interconnect cable (See Detail "O"), remove existing deteriorated handhole and install new handhole.

Q. Remove existing crosswalk pavement markings (not shown) and install 12" white heat applied permanent preformed thermoplastic pavement marking (crosswalk).

R. Remove existing stopline pavement markings (not shown) and install 24" white heat applied permanent preformed thermoplastic pavement marking (stop line).

S. Pull back existing interconnect cable, heading west toward 65th St, to this handhole and reroute into new cabinet.

T. Remove existing strain pole and all attached signal equipment and foundation 12" below grade. (cap and abandon existing conduit).

U. Use existing handhole.

V. Use existing conduit.

W. Remove existing handhole (cap and abandon existing conduit).

X. Install metered pedestal.

Y. Remove existing base mounted cabinet and controller.

Z. Remove existing overhead electrical service.

aa. Relocate existing "No Parking Anytime" sign and post.

bb. Relocate existing "S1-1" sign.

cc. Install 2-4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

dd. Remove existing W16-7pR sign from existing post and install a W16-7pL sign as shown.

ee. Install ground mounted S1-1 and W16-7pL signs on 4" x 4" wood post as shown.

ff. Extend white lane line or edge line pavement marking to new stop line as shown.

gg. Install ground mounted Guide sign on two 4" x 6" wood post as shown.

hh. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

jj. Install non-invasive micro-loop probes in proposed 3" conduit as shown.

kk. Remove existing sidewalk section and replace after the installation of the proposed signal equipment.

ll. Existing conduit to remain.

AERIAL UTILITY HEIGHTS

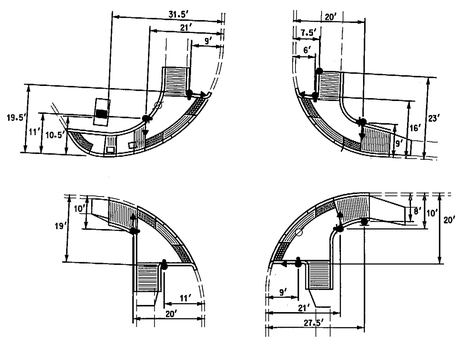
1
GUY 21'-6"
GUY 24'-7"
SECONDARY 32'-2"
NEUTRAL 33'-2"
PRIMARY 39'-0"
PRIMARY 45'-0"

2
TELEPHONE 22'-2"
TELEPHONE 22'-6"
CATV 23'-9"
SECONDARY 32'-3"
PRIMARY 40'-0"
PRIMARY 48'-0"

3
GUY 17'-2"
GUY 17'-9"
TELEPHONE 19'-3"
TELEPHONE 19'-3"
GUY 20'-9"
CATV 24'-0"
SECONDARY 29'-6"
PRIMARY 35'-6"
PRIMARY 43'-0"

4
GUY 22'-1"
GUY 24'-10"
NEUTRAL 30'-5"
NEUTRAL 31'-11"
PRIMARY 46'-0"
PRIMARY 50'-0"

POLE AND CABINET DIMENSIONS SCALE 1"= 20'



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. The contractor shall remove all unused wiring.
3. There was no prior history found about this traffic signal in the SHA files.
4. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps.

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 Crain Hwy.NW.
Glen Burnie,MD 21061
Ph (410) 590-5500
Fax (410) 590-6637
6059.dgn T-96

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

REVISIONS
① 5/18/12 REBUILD SIGNAL W/ APS/CPS/ UPS AND ADA RAMPS SHA NO. XX4395185 TIMS # K924
RRZ
C REPLACE FAILED LOOP DETECTION 7/97
855-25031
RCS
B ASBUILT 12/14/73

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 450 (ANNAPOLIS RD) AND COOPER LANE

LANDOVER, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE 1/13/72 CONTRACT NO.
DESIGNED BY
DRAWN BY T. MANK
CHECKED BY J. SPENCE
F.A.P. NO.
COUNTY PRINCE GEORGES
LOGMILE 1604500.20
TIMS NO.
TOD NO.

TS NO. 430D | DRAWING NO. 1 OF 3 | SHEET NO. OF

PLOTTED: $DATETIME$
FILE: $FILE$

PW PS: 2 3/12/2014 dgn: 6059_TS_TS_1.dgn