MD 7 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

a,b,c,d VIDEO DETECTOR CAMERA

VIDEO CAMERA DETECTOR ZONE

M METERED SERVICE PEDESTAL

DETECTABLE WARNING SURFACE

CONSTRUCTION DETAILS

A. INSTALL 27' STEEL POLE WITH 70' MAST ARM WITH SIGNAL HEADS, SIGNS, VIDEO DETECTOR CAMERAS, AND 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3" PVC BEND). INSTALL COUNTDOWN LED PEDESTRIAN SIGNAL HEADS AND NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS.

B. INSTALL 27' STEEL POLE WITH 50' MAST ARMS WITH SIGNAL HEADS, SIGNS, VIDEO DETECTOR CAMERAS, AND 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3" PVC BEND).

C. INSTALL 10' PEDESTAL POLE WITH BREAKAWAY BASE, COUNTDOWN PEDESTRIAN SIGNAL HEADS AND NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS. (NOTE: 1-3" 90° PVC BEND).

D. INSTALL METERED SERVICE PEDESTAL. (NOTE: 1-4" AND 2-2" 90° PVC BENDS)

E. INSTALL A SIZE "6" BASE-MOUNTED CABINET WITH NEMA CONTROLLER AND ALL NECESSARY EQUIPMENT. (NOTE: 2-4" PVC AND 2-2" PVC BENDS.)

F. INSTALL NON-INVASIVE MICROLOOP PROBES WITH 500 FT. LEAD-IN CABLE (TO BE PLACED IN THRU LANE ONLY).

G. VIDEO DETECTOR ZONE

H. USE EXISTING HANDHOLE.

J. USE EXISTING CONDUIT.

PROPOSED SIGNS

17,19,27 — ONLY — R3-5R (30"x36")

18,20 — Golden Ring RD — D-3(1) (VAR.x16") DUAL FACE

23,28 — Philadelphia RD — D-3(1) (VAR.x16") DUAL FACE

25 — ONLY — R3-5(L) (30"x36")

26 — R3-6 (30"x36")

22 — WEST MARYLAND 7 — SHIELD ASSEMBLY (48"x75")

24 — WEST MARYLAND 7 — SHIELD ASSEMBLY (30"x51")

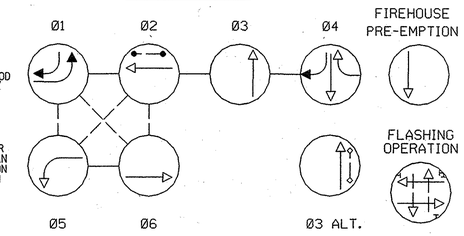
29 — EAST MARYLAND 7 — SHIELD ASSEMBLY (48"x75")

21 — EAST MARYLAND 7 — SHIELD ASSEMBLY (30"x51")

16a, 15a, 13a, 14a — PUSH BUTTON TO CROSS PHILADELPHIA RD / PUSH BUTTON TO CROSS PHILADELPHIA RD / PUSH BUTTON TO CROSS GOLDEN RING RD — NAVIGATOR PEDESTRIAN PUSHBUTTON AND SIGN

PUSHBUTTON NUMBERS INDICATE THE ASSOCIATED PEDESTRIAN SIGNAL HEAD NUMBERS

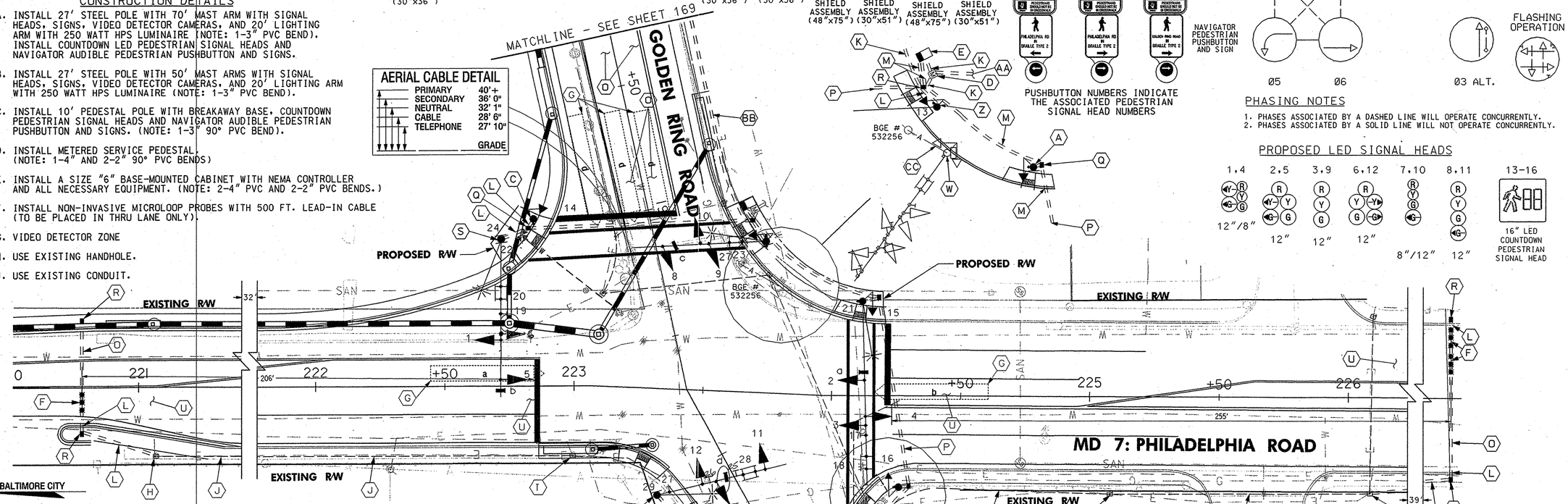
NEMA PHASING



PHASING NOTES

1. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

PROPOSED LED SIGNAL HEADS



AERIAL CABLE DETAIL

PRIMARY	40'+
SECONDARY	36' 0"
NEUTRAL	32' 1"
CABLE	28' 6"
TELEPHONE	27' 10"
GRADE	

AERIAL CABLE DETAIL

PRIMARY	40'+
SECONDARY	36' +
TRIPLEX	30' 0"
CABLE	26' 0"
TELEPHONE	25' 2"
TELEPHONE	23' 3"
GRADE	

CONSTRUCTION DETAILS cont.

K. INSTALL 2" SCHEDULE 80 RIGID PVC - TRENCHED.

L. INSTALL 3" SCHEDULE 80 RIGID PVC - TRENCHED PRIOR TO FINAL S/W POUR.

M. INSTALL 4" SCHEDULE 80 RIGID PVC - TRENCHED PRIOR TO FINAL S/W POUR.

N. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

O. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

P. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

Q. INSTALL HANDHOLE.

R. INSTALL HANDHOLE PRIOR TO FINAL SIDEWALK POUR.

S. INSTALL 27' STEEL POLE WITH 60' MAST ARM, SIGNAL HEADS, SIGNS, VIDEO DETECTOR CAMERA AND 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3" 90° PVC BEND).

T. REMOVE EXISTING HANDHOLE AND INSTALL NEW HANDHOLE IN SAME SPOT.

U. DISCONNECT AND ABANDON EXISTING PROBES/ LOOP DETECTORS.

V. REMOVE EXISTING HANDHOLE, CAP AND ABANDON EXISTING CONDUIT.

W. REMOVE EXISTING POLE, MAST ARM, ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE AND BACKFILL.

CONSTRUCTION DETAILS cont.

X. REMOVE EXISTING POLE MOUNTED CONTROLLER AND CABINET.

Y. REMOVE EXISTING PEDESTAL POLE AND ALL ATTACHED EQUIPMENT AND FOUNDATION 12" BELOW GROUND GRADE.

Z. INSTALL 27' STEEL POLE WITH 50' MAST ARM WITH SIGNAL HEADS, SIGNS, VIDEO DETECTOR CAMERAS, AND 20' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE (NOTE: 1-3" PVC BEND). INSTALL COUNTDOWN LED PEDESTRIAN SIGNAL HEADS AND NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGN.

AA. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCH FOR INSTALLATION OF SERVICE BY BGE (TO BE DETERMINED). PROVIDE A 1' STUB AT THE BASE WITH A PULL STRING.

BB. DISCONNECT EXISTING PRE-EMPTION CABLE FROM THE EXISTING CONTROLLER. PULL BACK TO EXISTING HANDHOLE 100' NORTH OF INTERSECTION, STORE, AND REROUTE THROUGH PROPOSED HANDHOLES & CONDUIT TO THE PROPOSED CONTROLLER/CABINET.

CC. REMOVE EXISTING OVERHEAD SERVICE DROP.

GENERAL NOTES

1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
3. FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
6. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITIY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.

GENERAL NOTES cont.

7. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTION, 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 PROPOSED EQUIPMENT.
8. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SIGNAL OPERATION DURING THE COMPLETE CONSTRUCTION PERIOD.
9. CONTRACTOR IS RESPONSIBLE FOR THE PURCHASE AND DELIVERY OF THE CENTRAL CONTROL NAVIGATOR UNIT FOR THE CONTROLLER TO THE SHA SIGNAL SHOP AT 7491 CONNELLEY DR., HANOVER, MD 21076. MR EDWARD ROBENHIZER AT (410) 787-7652 SHALL BE CONTACTED SEVENTY-TWO (72) HOURS PRIOR TO DELIVERY.
10. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MR. ROBERT SMITH, OOTS, AT (410) 787-7631 TO ARRANGE PHONE DROP. THE CONTRACTOR SHALL PROVIDE SEVENTY-TWO (72) HOURS NOTICE PRIOR TO COMPLETION OF THE PROJECT AND SHALL PROVIDE THE NEAREST ADDRESS.

NOTE:
SEE DIMENSION DIAGRAM ON GENERAL INFORMATION SHEET FOR POLE, AND SIGNAL HEAD DIMENSIONS.

UTILITY LEGEND

SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

APPROVALS

TEAM LEADER — ORIGINAL ON FILE

ASST. DIV. CHIEF

DIVISION CHIEF

OFFICE DIRECTOR

REVISIONS

J) 10-11-06 — REPLACE EQUIP. ADD VIDEO CAMERAS & AUDIO PED'S SHA BA6885185 — AJM PAT

H 6-7-01 — REPLACE DETECTION AND SPLIT S.S. PHASING. SHA NO. B2996MB2 — TMZ DD BAZ BRK BRK

G 9-12-00 — REVISE SIGNAL DISPLAY AND DETECTION DUE TO WIDENING. SHA NO. BW996MB2 — TMZ

CENTURY ENGINEERING
CONSULTING ENGINEERS - PLANNERS
10710 GILROY ROAD
HUNT VALLEY, MD 21031

T3 design
T3 DESIGN, P.C.
3927 OLD LEE HWY
SUITE 101-C
FAIRFAX, VA 22030
PHONE: 703-359-5861
www.t3design.us

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 7 (PHILADELPHIA RD) AT AND MD 588 (GOLDEN RING RD)

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 11-17-85 CONTRACT NO. B-249-501-471

DESIGNED BY S. DEAN — COUNTY BALTIMORE

DRAWN BY — LOGMILE 03000702.25

CHECKED BY — T.I.M.S. NO. F189

F.A.P. NO. — TOD NO.

DRAWING NO. TS-1158J SG-7 OF 9 — SHEET NO. 168 OF

PLOTTED: Monday, October 23, 2006 AT 11:40 AM
FILE: Z:\Project\06-0020 Century Engineering-MD SHA\Task 1 MD 7\CADD\6 PS&E Plans\pSG-P007_MD7.dgn

BY: amym