NOTE: MD 97 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

12a,14a — PUSH BUTTON TO CROSS HATHAWAY — R10-3(1) 9" x 15"

11a,13a — PUSH BUTTON TO CROSS HATHAWAY — R10-3(1) 9" x 15"

15a — PUSH BUTTON TO CROSS GEORGIA — R10-3(1) 9" x 15"

16a — PUSH BUTTON TO CROSS GEORGIA — R10-3(1) 9" x 15"

PROPOSED SIGNS

17,18 — Hathaway Dr. >13000 — D-3(1) (VAR.x16") DUAL FACE

21,23 — Georgia AVE <12900 — D-3(1) (VAR.x16") DUAL FACE

28 — SOUTH MARYLAND 97 — SHIELD ASSEMBLY (30"x51")

31 — SOUTH MARYLAND 97 — SHIELD ASSEMBLY (48"x75")

19,20 — Hathaway Dr. <13000 — D-3(1) (VAR.x16") DUAL FACE

24,26 — Georgia AVE >12900 — D-3(1) (VAR.x16") DUAL FACE

30 — NORTH MARYLAND 97 — SHIELD ASSEMBLY (30"x51")

29 — NORTH MARYLAND 97 — SHIELD ASSEMBLY (48"x75")

22,25 — ONLY — R3-5(L) (30"x36")

27 — NO TURN ON RED — R10-11b (30"x30")

EXISTING SIGNS TO BE REMOVED

Hathaway Dr. >13000

Georgia AVE <12900

Hathaway Dr. <13000 — ONLY

Georgia AVE >12900 — NO TURN ON RED

PUSH BUTTON TO CROSS GEORGIA AVE

PROPOSED SIGNALS

1-10: R, Y, G — 12"

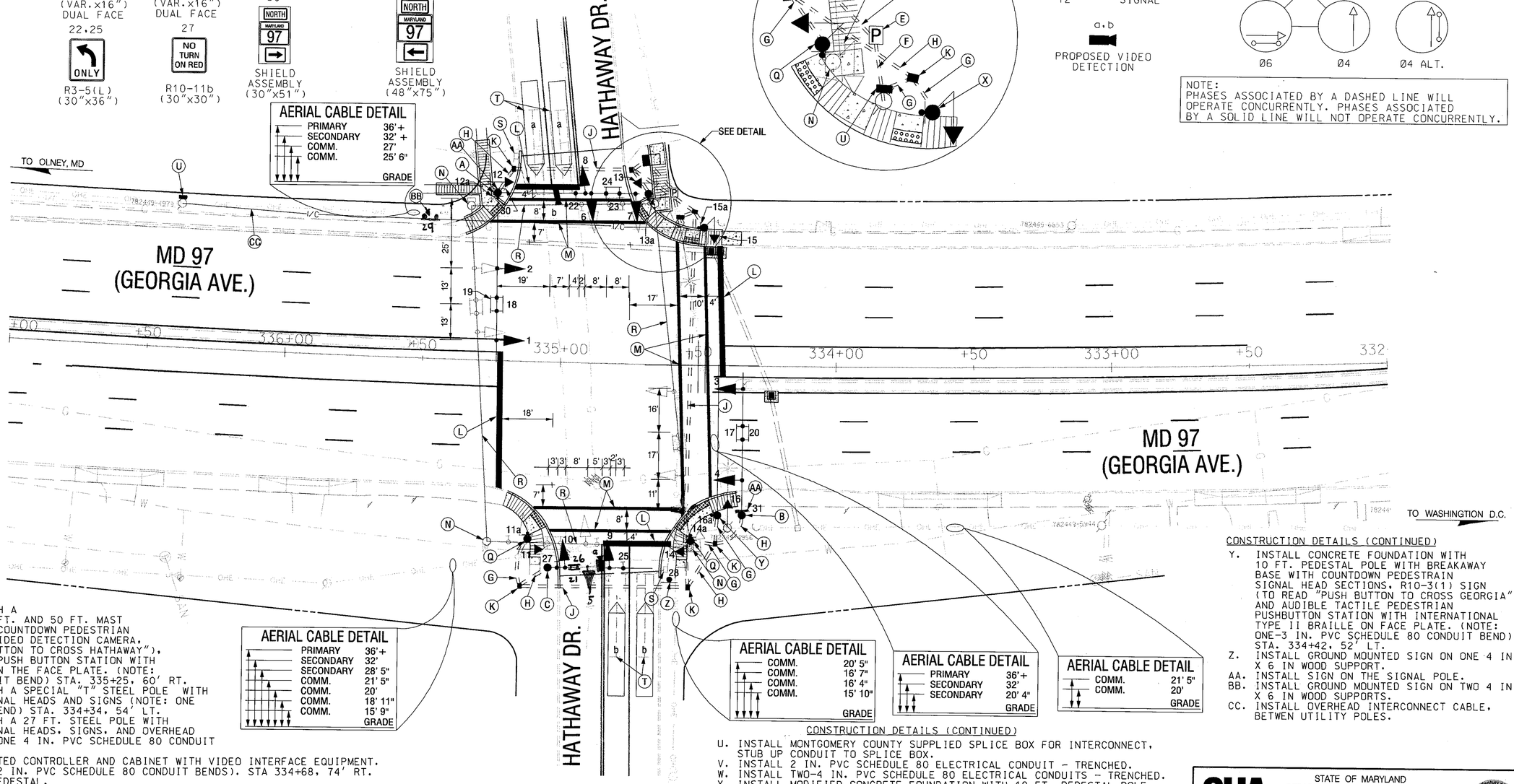
11-16: 16" LED COUNTDOWN PEDESTRIAN SIGNAL

a,b: PROPOSED VIDEO DETECTION

NEMA PHASING

Ø2, Ø8, Ø6, Ø4 — FLASHING OPERATION — Ø4 ALT.

NOTE:
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.



AERIAL CABLE DETAIL

PRIMARY	36'+
SECONDARY	32'
COMM.	27'
COMM.	25' 6"
GRADE	

AERIAL CABLE DETAIL

PRIMARY	36'+
SECONDARY	32'
SECONDARY	28' 5"
COMM.	21' 5"
COMM.	20'
COMM.	18' 11"
COMM.	15' 9"
GRADE	

AERIAL CABLE DETAIL

COMM.	20' 5"
COMM.	16' 7"
COMM.	16' 4"
COMM.	15' 10"
GRADE	

AERIAL CABLE DETAIL

PRIMARY	36'+
SECONDARY	32'
SECONDARY	20' 4"
GRADE	

AERIAL CABLE DETAIL

COMM.	21' 5"
COMM.	20'
GRADE	

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH TWIN 60 FT. AND 50 FT. MAST ARMS WITH SIGNAL HEADS, SIGNS, COUNTDOWN PEDESTRIAN SIGNAL HEAD SECTION, OVERHEAD VIDEO DETECTION CAMERA, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS HATHAWAY"), AND AUDIBLE TACTILE PEDESTRIAN PUSH BUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON THE FACE PLATE. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 335+25, 60' RT.
B. INSTALL CONCRETE FOUNDATION WITH A SPECIAL "T" STEEL POLE WITH SINGLE 50 FT. MAST ARM WITH SIGNAL HEADS AND SIGNS (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 334+34, 54' LT.
C. INSTALL CONCRETE FOUNDATION WITH A 27 FT. STEEL POLE WITH SINGLE 38 FT. MAST ARM WITH SIGNAL HEADS, SIGNS, AND OVERHEAD VIDEO DETECTION CAMERA. (NOTE: ONE 4 IN. PVC SCHEDULE 80 CONDUIT BEND) STA. 335+11, 74' LT.
D. INSTALL A NEMA SIZE 6 BASE MOUNTED CONTROLLER AND CABINET WITH VIDEO INTERFACE EQUIPMENT. (NOTE: TWO-4 IN. PVC, AND TWO-2 IN. PVC SCHEDULE 80 CONDUIT BENDS). STA 334+68, 74' RT.
E. INSTALL 200 AMP METER SERVICE PEDESTAL.
F. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT FOR ELECTRICAL SERVICE - TRENCHED. STUB OUT COUNDUIT BEND AT BASE OF UTILITY POLE WITH 3 RUNS OF 1 CONDUCTOR 250 KCMIL COILED 30 FT.
G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
H. INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
J. INSTALL TWO-4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - SLOTTED.
K. INSTALL HANDHOLE.
L. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOP LINE.
M. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
N. REMOVE EXISTING POLE AND FOUNDATION 12 IN. BELOW GRADE AND BACKFILL AFTER NEW SIGNAL IS OPERATIONAL.
P. REMOVE EXISTING POLE MOUNTED CABINET AND CONTROLLER.
Q. INSTALL CONCRETE FOUNDATION WITH 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE WITH COUNTDOWN PEDESTRAIN SIGNAL HEAD SECTIONS, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS HATHAWAY"), AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 334+68, 62' RT., STA. 334+52, 61' LT; STA. 335+10, 65' LT.
R. REMOVE EXISTING SPAN WIRE AND ALL ASSOCIATED EQUIPMENT.
S. REMOVE EXISTING HAND HOLE 12 IN. BELOW GRADE AND BACKFILL.
T. REMOVE ALL LOOP WIRES FROM EXISTING HAND HOLES AND CONDUITS AND ABANDON EXISTING LOOPS.

CONSTRUCTION DETAILS (CONTINUED)

U. INSTALL MONTGOMERY COUNTY SUPPLIED SPLICE BOX FOR INTERCONNECT, STUB UP CONDUIT TO SPLICE BOX.
V. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
W. INSTALL TWO-4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUITS - TRENCHED.
X. INSTALL MODIFIED CONCRETE FOUNDATION WITH 10 FT. PEDESTAL POLE WITH BREAKAWAY COUPLINGS WITH COUNTDOWN PEDESTRAIN SIGNAL HEAD SECTIONS, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS GEORGIA"), AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 334+50, 48' RT. THE CONTRACTOR SHALL HAND DIG TO INSTALL THE CONCRETE FOUNDATION DUE TO THE PRESENCE OF UNDERGROUND UTILITIES.

CONSTRUCTION DETAILS (CONTINUED)

Y. INSTALL CONCRETE FOUNDATION WITH 10 FT. PEDESTAL POLE WITH BREAKAWAY BASE WITH COUNTDOWN PEDESTRAIN SIGNAL HEAD SECTIONS, R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS GEORGIA"), AND AUDIBLE TACTILE PEDESTRIAN PUSHBUTTON STATION WITH INTERNATIONAL TYPE II BRAILLE ON FACE PLATE. (NOTE: ONE-3 IN. PVC SCHEDULE 80 CONDUIT BEND). STA. 334+42, 52' LT.
Z. INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. X 6 IN WOOD SUPPORT.
AA. INSTALL SIGN ON THE SIGNAL POLE.
BB. INSTALL GROUND MOUNTED SIGN ON TWO 4 IN. X 6 IN WOOD SUPPORTS.
CC. INSTALL OVERHEAD INTERCONNECT CABLE, BETWEN UTILITY POLES.

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

SD — STORM DRAIN
G — GAS MAIN
W — WATER MAIN
SAN — SEWER MAIN
E — ELECTRIC CABLES
OHE — O — AERIAL CABLES
T — TELEPHONE CABLES
FO — FIBER-OPTIC

BY: Jpadugu

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WWW.SABRA-WANG.COM

APPROVALS	
TEAM LEADER, TRAFFIC ENGINEERING DIVISION	
ASST. CHIEF TRAFFIC ENGINEERING DIVISION	
CHIEF TRAFFIC ENGINEERING DIVISION	
DIRECTOR, OFFICE OF TRAFFIC & SAFETY	

ORIGINAL ON FILE

REVISIONS			
B 1-23-09 SIGNAL REBUILD SHA # M-6755196	RRZ	WS	RDB
A 1-23-75 ASBUILT SHA # M-973-X-385	RRZ		

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 97 (GEORGIA AVENUE) AND HATHAWAY DRIVE

ASPEN HILL, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1" = 20' DATE 10/18/71 CONTRACT NO.

DESIGNED BY
DRAWN BY T. MANK
CHECKED BY
F.A.P. NO.

COUNTY MONTGOMERY
LOGMILE 15009705.58
T.I.M.S. NO. J203
TOD NO.

TS NO. 437 B | DRAWING pSG OF P004 | SHEET NO. 34G OF 56F

PLOTTED: Thursday, January 15, 2009 AT 02:07 PM
FILE: R:\2006\58 BCS 2005-13D PREL ENG DES SVC WRA $200K\Task 2\DWG\Signals\Signal Rebuild\pSG-P004 MD97.dgn