MD 436 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO BE REMOVED

12"X18" (1 EA.)

Melvin Avenue 84"X16" (1 EA.)

MELVIN AV 24"X8" (1 EA.)

RIDGELY AV 24"X8" (1 EA.)

PROPOSED ACCESSIBLE PUSHBUTTONS AND SIGNS

13 — MELVIN AVE R10-3(1) 9"X15"

14 — MELVIN AVE R10-3(1) 9"X15"

15 — RIDGELY AVE R10-3(1) 9"X15"

16 — RIDGELY AVE R10-3(1) 9"X15"

PROPOSED SIGNS

17a,17b,18a,18b — Melvin AVE D-3(1) 60"X16" (DUAL FACE)

19,22 — Ridgely AVE NORTH MARYLAND 436 SOUTH — M1-5(4) 78"x36"

20,21 — Ridgely AVE SOUTH MARYLAND 436 NORTH — M1-5(4) 78"x36"

31 — R7-1(1) @ 30° 12"X18"

24,25,28,30 — S1-1 FYG 36"X36" W16-7pR FYG 24"X12"

23,26,27,29 — S1-1 FYG 36"X36" W16-7pL FYG 24"X12"

32,33,34,35 — AHEAD S1-1 FYG 36"X36" S4-4(2) FYG 30"X12"

PROPOSED LED SIGNALS

1,2,3,4, 5,6,7,8 — R Y G 12"

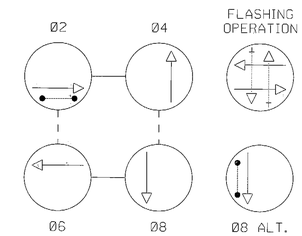
9,10,11,12 — 16"

a,b,c,d — PROPOSED IP-BASED VIDEO DETECTION

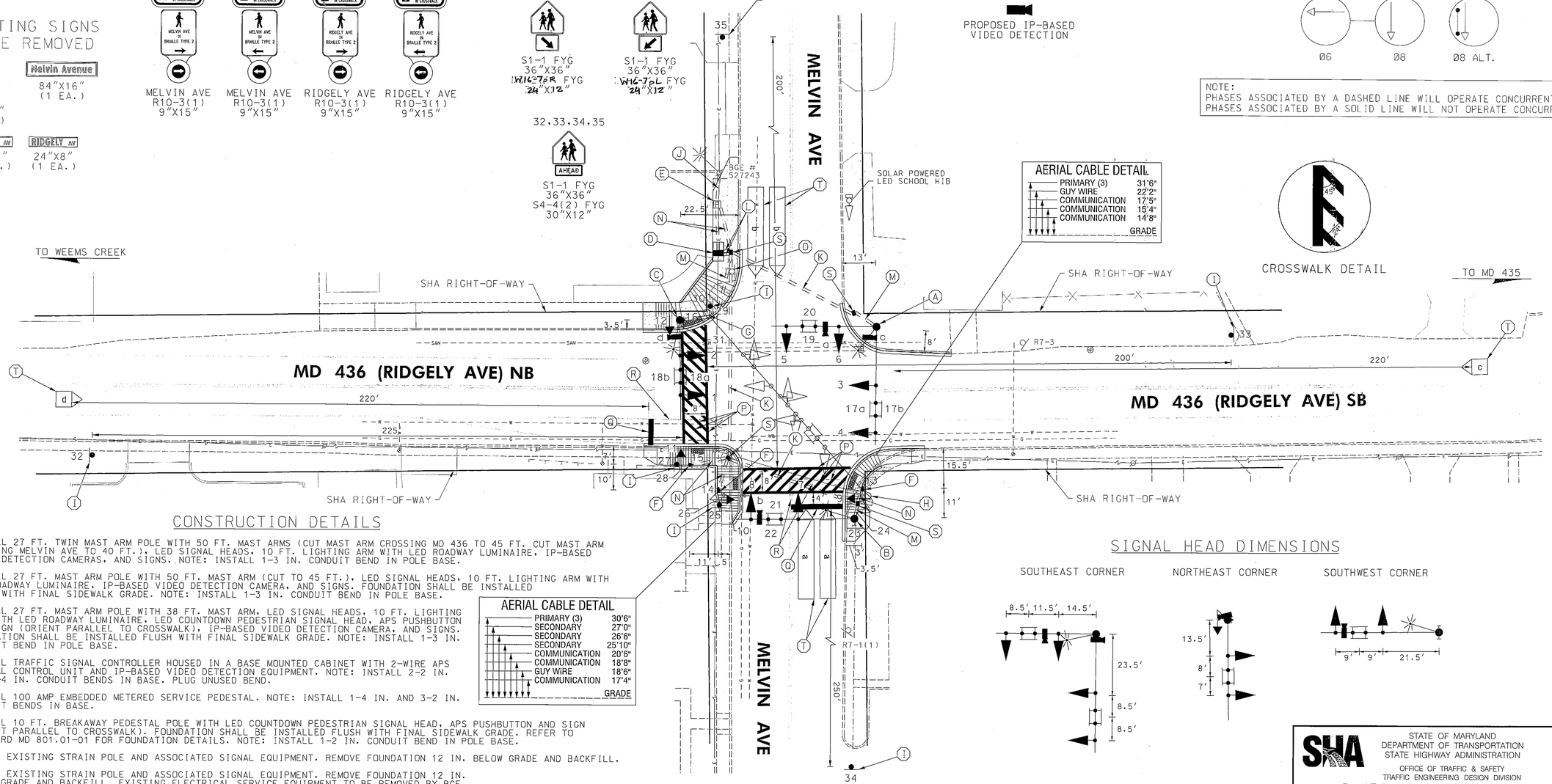
EXISTING SIGNALS TO BE REMOVED

R Y G 12" (8 EA.)

NEMA PHASING



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



AERIAL CABLE DETAIL

PRIMARY (3)	31'6"
GUY WIRE	22'2"
COMMUNICATION	17'5"
COMMUNICATION	15'4"
COMMUNICATION	14'8"
GRADE	

AERIAL CABLE DETAIL

PRIMARY (3)	30'6"
SECONDARY	27'0"
SECONDARY	26'6"
SECONDARY	25'10"
COMMUNICATION	20'6"
COMMUNICATION	18'8"
GUY WIRE	18'6"
COMMUNICATION	17'4"
GRADE	

CROSSWALK DETAIL

CONSTRUCTION DETAILS

A. INSTALL 27 FT. TWIN MAST ARM POLE WITH 50 FT. MAST ARMS (CUT MAST ARM CROSSING MD 436 TO 45 FT. CUT MAST ARM CROSSING MELVIN AVE TO 40 FT.), LED SIGNAL HEADS, 10 FT. LIGHTING ARM WITH LED ROADWAY LUMINAIRE, IP-BASED VIDEO DETECTION CAMERAS, AND SIGNS. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

B. INSTALL 27 FT. MAST ARM POLE WITH 50 FT. MAST ARM (CUT TO 45 FT.), LED SIGNAL HEADS, 10 FT. LIGHTING ARM WITH LED ROADWAY LUMINAIRE, IP-BASED VIDEO DETECTION CAMERA, AND SIGNS. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

C. INSTALL 27 FT. MAST ARM POLE WITH 38 FT. MAST ARM, LED SIGNAL HEADS, 10 FT. LIGHTING ARM WITH LED ROADWAY LUMINAIRE, LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK), IP-BASED VIDEO DETECTION CAMERA, AND SIGNS. FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. NOTE: INSTALL 1-3 IN. CONDUIT BEND IN POLE BASE.

D. INSTALL TRAFFIC SIGNAL CONTROLLER HOUSED IN A BASE MOUNTED CABINET WITH 2-WIRE APS CENTRAL CONTROL UNIT AND IP-BASED VIDEO DETECTION EQUIPMENT. NOTE: INSTALL 2-2 IN. AND 2-4 IN. CONDUIT BENDS IN BASE. PLUG UNUSED BEND.

E. INSTALL 100 AMP EMBEDDED METERED SERVICE PEDESTAL. NOTE: INSTALL 1-4 IN. AND 3-2 IN. CONDUIT BENDS IN BASE.

F. INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, APS PUSHBUTTON AND SIGN (ORIENT PARALLEL TO CROSSWALK). FOUNDATION SHALL BE INSTALLED FLUSH WITH FINAL SIDEWALK GRADE. REFER TO STANDARD MD 801.01-01 FOR FOUNDATION DETAILS. NOTE: INSTALL 1-2 IN. CONDUIT BEND IN POLE BASE.

G. REMOVE EXISTING STRAIN POLE AND ASSOCIATED SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL.

H. REMOVE EXISTING STRAIN POLE AND ASSOCIATED SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE AND BACKFILL. EXISTING ELECTRICAL SERVICE EQUIPMENT TO BE REMOVED BY BGE.

I. INSTALL GROUND MOUNTED SIGN ON 1-4"X6" WOOD SIGN SUPPORT (DRILLED). NOTE: SIGN POSTS INSTALLED IN CONCRETE SHALL HAVE SLEEVED FOUNDATIONS MEETING THE REQUIREMENTS OF STANDARDS MD 812.05-01 AND MD 812.05-02. SLEEVED FOUNDATIONS ARE INCIDENTAL TO THE WOOD SIGN SUPPORTS.

J. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED. STUB AT UTILITY POLE NO. 527243 FOR POWER FEED.

K. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.

L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

M. INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

N. INSTALL 2 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.

O. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT(S).

P. INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

Q. INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE.

R. REMOVE EXISTING PAVEMENT MARKING LINE.

S. INSTALL ELECTRICAL HANDHOLE.

T. PROPOSED VIDEO DETECTION ZONE.

SIGNAL HEAD DIMENSIONS

GEOMETRIC LEGEND
- EXISTING
- PROPOSED

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

BY: WFW

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

REVISIONS
A — RECONSTRUCT SIGNAL. INSTALL APS/CPS SHA NO.XY1515185. TIMS NO. L826 — 04-2013

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

MD 436 (RIDGELY AVENUE) AT MELVIN AVENUE
ANNAPOLIS, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"=20' DATE _____ CONTRACT NO. _____
DESIGNED BY _____ COUNTY ANNE ARUNDEL
DRAWN BY _____ LOGMILE 02043600.20
CHECKED BY _____ TIMS NO. _____
FAP NO. _____ TOD NO. _____

TS NO. 10067A | DRAWING SP-1 OF 2 | SHEET NO. OF

PLOTTED: Wednesday, April 03, 2013 AT 01:30 PM
FILE: \\bellsrv03\v2008\2038\98148_rodder\Task 123_MD 436 at Melvin\CADD\pSG-C001_MD436@Melvin.dgn