MD 3 BUSINESS IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS TO REMAIN

1,2,5,6 — 12"
3,4,7,8, 10,11,13,14 — 12"
9,12 — 8"

PROPOSED LED SIGNALS

15,16,17,18, 19,20,21,22

16" COUNTDOWN PEDESTRIAN SIGNAL

EXISTING SIGNALS TO BE REMOVED

15a,16a,17a,18a, 19a,20a,21a,22a

12"

PROPOSED SIGNS

23,26 — R10-3(1) 9"x15" W/ APS
24 — R10-3(1) 9"x15" W/ APS
25 — R10-3(1) 9"x15" W/ APS
27,29 — R10-3(1) 9"x15" W/ APS
28,30 — R10-3(1) 9"x15" W/ APS

EXISTING SIGNS TO BE REMOVED

27a,28a 29a,30a

R10-4(2) (9"x12")

EXISTING SIGNS TO REMAIN

31,32 — CRAINMONT DR — D-3(1) (VARIABLEx16")

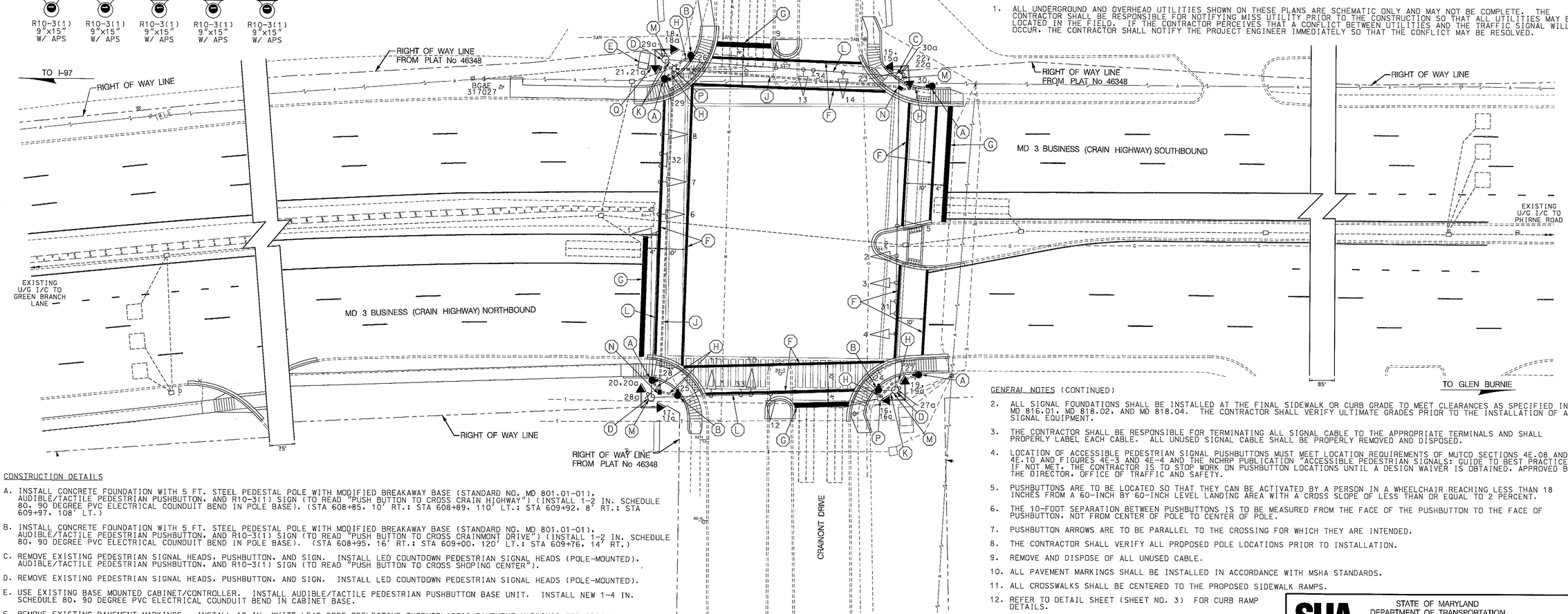
33,34 — ONLY — R3-5L (30"x36")

NEMA PHASING

Ø1, Ø2, Ø4, Ø4 ALT, FIREHOUSE PRE-EMPTION, Ø5, Ø6, Ø8, Ø8 ALT, FLASHING OPERATION

PHASING NOTES:

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



GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.

GENERAL NOTES (CONTINUED)

2. ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTIONS 4E.08 AND 4E.10 AND FIGURES 4E-3 AND 4E-4 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
6. THE 10-FOOT SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
7. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
8. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
9. REMOVE AND DISPOSE OF ALL UNUSED CABLE.
10. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
11. ALL CROSSWALKS SHALL BE CENTERED TO THE PROPOSED SIDEWALK RAMPS.
12. REFER TO DETAIL SHEET (SHEET NO. 3) FOR CURB RAMP DETAILS.
13. REFER TO THE ROADWAY PLAN SHEET (SHEET NO. 4) FOR ALL SIGN RELOCATIONS RESULTING FROM SIDEWALK CONSTRUCTION.
14. NEW SIGNAL POLE FOUNDATIONS ARE TO BE INCORPORATED INTO THE CURB.

CONSTRUCTION DETAILS

A. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CRAIN HIGHWAY") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL COUNDUIT BEND IN POLE BASE). (STA 608+85, 10' RT.; STA 608+89, 110' LT.; STA 609+92, 8' RT.; STA 609+97, 108' LT.)

B. INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS CRAINMONT DRIVE") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL COUNDUIT BEND IN POLE BASE). (STA 608+95, 16' RT.; STA 609+00, 120' LT.; STA 609+76, 14' RT.)

C. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, AND SIGN. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEADS (POLE-MOUNTED), AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS SHOPING CENTER").

D. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, AND SIGN. INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEADS (POLE-MOUNTED).

E. USE EXISTING BASE MOUNTED CABINET/CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT. INSTALL NEW 1-4 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL COUNDUIT BEND IN CABINET BASE.

F. REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 12 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.

G. REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 24 IN. WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKING LINE FOR STOPLINE.

H. INSTALL 2 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

J. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - BORED.

K. USE EXISTING CONDUIT.

L. USE EXISTING SPAN WIRE.

M. USE EXISTING STRAIN POLE.

N. INSTALL ELECTRICAL HANDHOLE.

P. USE EXISTING HANDHOLE.

Q. INSTALL 4 IN. SCHEDULE 80 PVC ELECTRICAL CONDUIT - TRENCHED.

McCormick Taylor
Engineers & Planners Since 1946
509 South Exeter Street
4th Floor
Baltimore, Maryland 21202
(410) 662-7400

BY: bshanover

0 10 20 40
SCALE: 1" = 20'

GEOMETRIC LEGEND

EXISTING
PROPOSED

UTILITY LEGEND

STORM DRAIN
GAS MAIN
WATER MAIN
SEWER MAIN
ELECTRIC CABLES
AERIAL CABLES
TELEPHONE CABLES
FIBER-OPTIC

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

7	UPGRADE SIGNAL WITH APS AND CPS	10/16/2012 SHA NO. AM646378 TMS NO. L344	
BSH			
E	INSTALL BUS OPTICOM MD 3 SB	05/06/1 SHA NO. AT880595	
JWA			
D	REPLACE DETECTION DUE TO GEOMETRIC IMPROVEMENTS	08/1369 SHA NO. BW996M82	
TMZ	MAR	DAZ	BRK TH

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

MD 3 BUSINESS (CRAIN HIGHWAY) AT CRAINMONT DRIVE

GLEN BURNIE, MARYLAND

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 20' DATE 10-24-77 CONTRACT NO. BW996M82

DESIGNED BY
DRAWN BY B. KING
CHECKED BY D. ZAFIRIS
F.A.P. NO.

COUNTY ANNE ARUNDEL
LOGMILE 02800300.98
T.I.M.S. NO.
T.O.D. NO.

T.S. NO. 1550F SG-01 OF SG-02 SHEET NO. 8 OF 9

PLOTTED: Tuesday, October 16, 2012 AT 11:10 AM
FILE: I:\SR12 - fedd\28 - ada topb\design\engineering\planset\Submittal10\MD 3 Bus at Crainmont\pSG-P001_TS1550F.dgn