MD 650 IS ASSUMED TO RUN IN A NORTH / SOUTH DIRECTION

EXISTING LED SIGNALS TO BE RELOCATED

17,18 — 16" COUNTDOWN PEDESTRIAN SIGNAL

EXISTING LED SIGNALS

1,2, 5,6 — 12"; 3,4,7, 8,11,14 — 12"; 9,10, 12,13 — 12"; 15,16,19 20,21,22 — 16" COUNTDOWN PEDESTRIAN SIGNAL

a,b,c,d — EXISTING VIDEO DETECTION

EXISTING SIGNS TO BE REMOVED

30 — R3-5R (30" X 36")

23,25 — R3-5L (30" X 36")

EXISTING SIGNS

33 — R3-5R (30" X 36")

27,28,32 — R3-5L (30" X 36")

29 — R3-6L (30" X 36")

34 — R10 (24" X 30")

36 — (30"X51")

37 — (48"X75")

38 — (30"X51")

39 — (48"X75")

24B,26A — Powder Mill RD <1700

31B,35B — New Hampshire AVE <10200

24A,26B — Powder Mill RD 1700>

31A,35A — New Hampshire AVE 10200>

DUAL FACE D-3(1) (VAR. X 16")

PROPOSED SIGNS

45,47 — PUSH BUTTON TO CROSS POWDER MILL ROAD

44,46 — PUSH BUTTON TO CROSS POWDER MILL ROAD

41,43 — PUSH BUTTON TO CROSS NEW HAMPSHIRE AV.

40,42 — PUSH BUTTON TO CROSS NEW HAMPSHIRE AV.

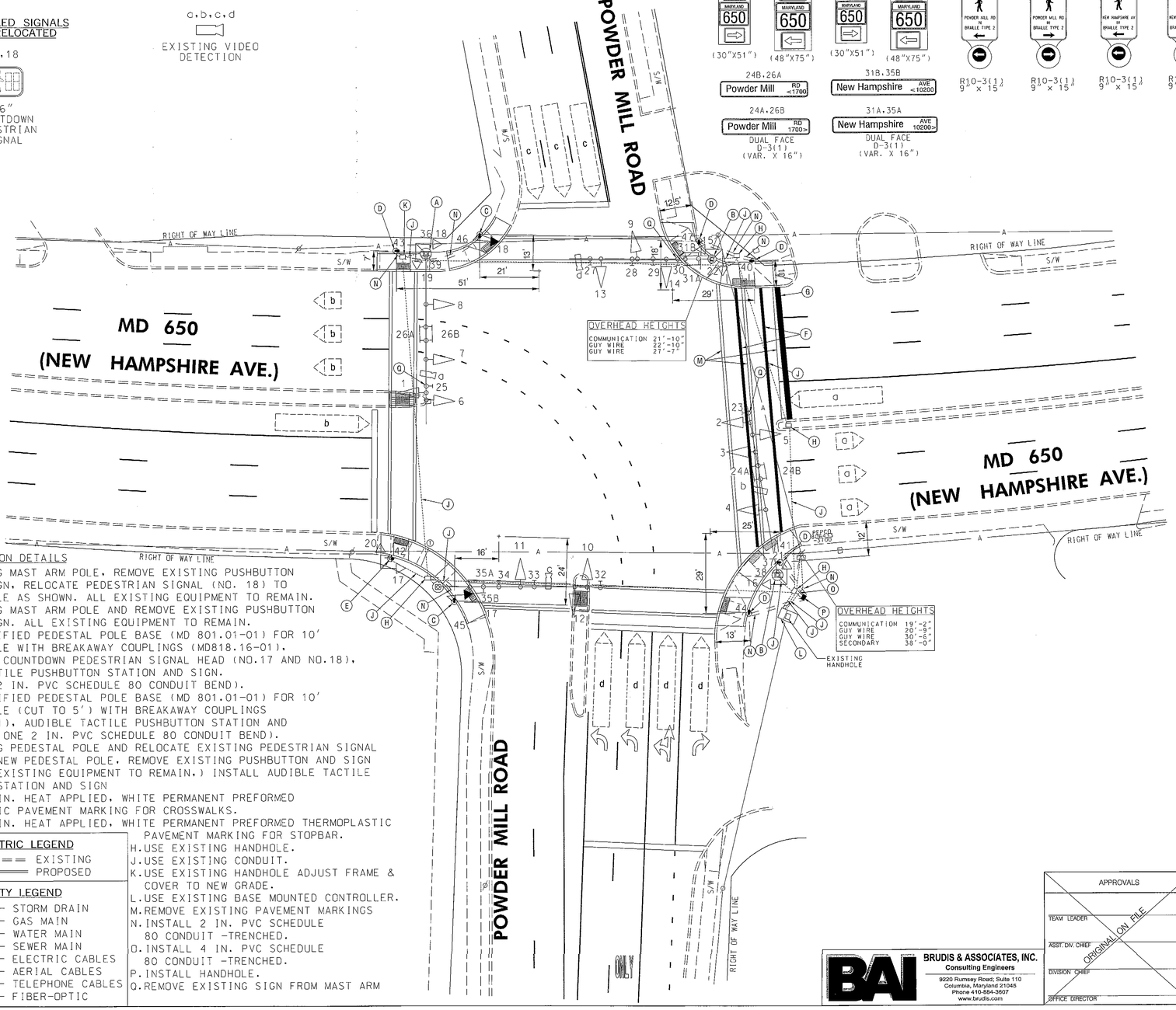
R10-3(1) 9" x 15"

NEMA PHASING

01, 02, 03, 04, FLASHING OPERATION

05, 06, 03 ALT., 04 ALT.

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



CONSTRUCTION DETAILS

A. USE EXISTING MAST ARM POLE, REMOVE EXISTING PUSHBUTTON UNIT AND SIGN, RELOCATE PEDESTRIAN SIGNAL (NO. 18) TO PEDESTAL POLE AS SHOWN. ALL EXISTING EQUIPMENT TO REMAIN.
B. USE EXISTING MAST ARM POLE AND REMOVE EXISTING PUSHBUTTON UNIT AND SIGN. ALL EXISTING EQUIPMENT TO REMAIN.
C. INSTALL MODIFIED PEDESTAL POLE BASE (MD 801.01-01) FOR 10' PEDESTAL POLE WITH BREAKAWAY COUPLINGS (MD818.16-01), (RELOCATED) COUNTDOWN PEDESTRIAN SIGNAL HEAD (NO.17 AND NO.18), AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN. (NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
D. INSTALL MODIFIED PEDESTAL POLE BASE (MD 801.01-01) FOR 10' PEDESTAL POLE (CUT TO 5') WITH BREAKAWAY COUPLINGS (MD818.16-01), AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN.(NOTE: ONE 2 IN. PVC SCHEDULE 80 CONDUIT BEND).
E. USE EXISTING PEDESTAL POLE AND RELOCATE EXISTING PEDESTRIAN SIGNAL (NO.17) TO NEW PEDESTAL POLE. REMOVE EXISTING PUSHBUTTON AND SIGN (ALL OTHER EXISTING EQUIPMENT TO REMAIN.) INSTALL AUDIBLE TACTILE PUSHBUTTON STATION AND SIGN
F. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR CROSSWALKS.
G. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR STOPBAR.
H. USE EXISTING HANDHOLE.
J. USE EXISTING CONDUIT.
K. USE EXISTING HANDHOLE ADJUST FRAME & COVER TO NEW GRADE.
L. USE EXISTING BASE MOUNTED CONTROLLER.
M. REMOVE EXISTING PAVEMENT MARKINGS
N. INSTALL 2 IN. PVC SCHEDULE 80 CONDUIT -TRENCHED.
O. INSTALL 4 IN. PVC SCHEDULE 80 CONDUIT -TRENCHED.
P. INSTALL HANDHOLE.
Q. REMOVE EXISTING SIGN FROM MAST ARM

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
2. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MDSHA STANDARDS.
3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
7. SEE SHEET NO. 2 OF 3 FOR HANDICAP RAMP DETAILS AND APS NOTES.

GEOMETRIC LEGEND

EXISTING
PROPOSED

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

BY: xiaoyu

TOD NO:XX444-21M
SHA NO:MO526A5D/B5D
MD 650 @ ELTON RD

BRUDIS & ASSOCIATES, INC.
Consulting Engineers
9220 Rumsey Road; Suite 110
Columbia, Maryland 21045
Phone 410-884-3607
www.brudis.com

APPROVALS

TEAM LEADER
ASST. DIV. CHIEF
DIVISION CHIEF
OFFICE DIRECTOR

ORIGINAL ON FILE

REVISIONS

E 06/01/09 TIMS-1731 SHA# XX4445185 UPGRADE RAMPS AND INSTALL APS
NG
D 11-15-08 SHA#: XX3395185 INSTALL L.E.D. SIGNAL HEADS AND CPS
NG
C 3/03 RECONSTRUCT SIGNAL DUE TO GEOMETRIC CHANGE
SWA

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

MD 650 (NEW HAMPSHIRE AVENUE) AT POWDER MILL ROAD
TRAFFIC SIGNAL MODIFICATION

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 10-8-86 CONTRACT NO. 855-25006

DESIGNED BY T. ZAYDEL
DRAWN BY
CHECKED BY
F.A.P. NO.
COUNTY MONTGOMERY
LOGMILE 15065003.46
TIMS NO. 1731
TOD NO.

TS NO. 1354E | DRAWING – OF | SHEET NO. 4 OF 6

PLOTTED: Tuesday, June 30, 2009 AT 03:16 PM
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