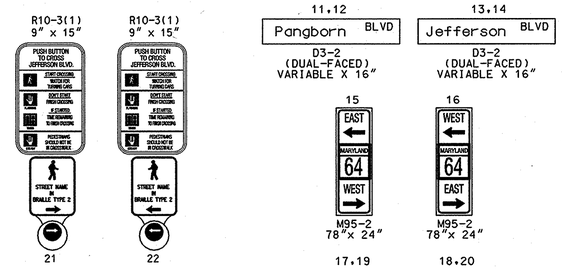
DRILL HOLES

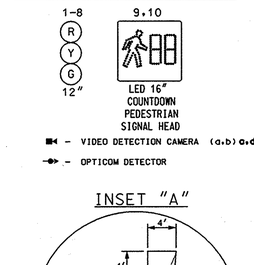
BORDER REV: DATE: June 1, 2004

NOTE: MD 64 IS CONSIDERED TO RUN IN AN EAST-WEST DIRECTION.

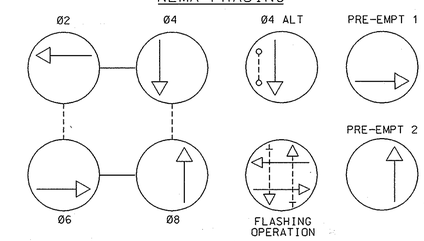
PROPOSED SIGNS



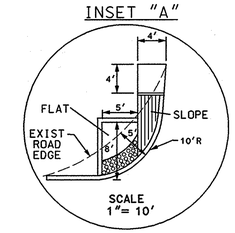
PROPOSED LED SIGNALS

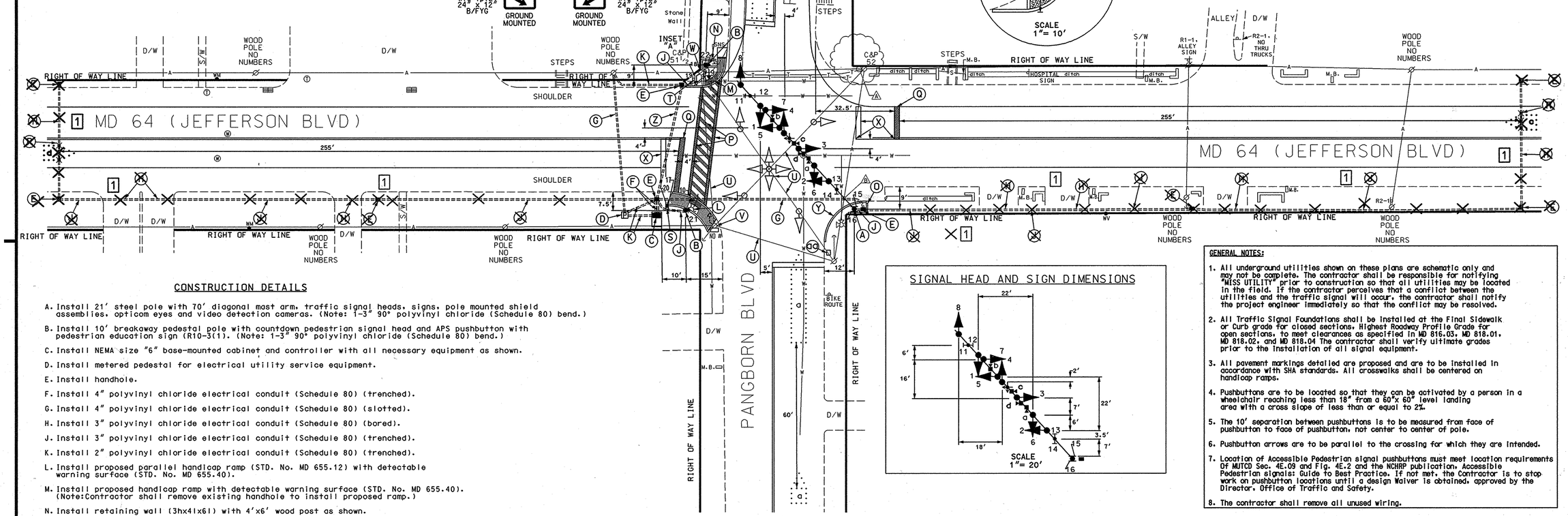


NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY





CONSTRUCTION DETAILS

A. Install 21' steel pole with 70' diagonal mast arm, traffic signal heads, signs, pole mounted shield assemblies, opticom eyes and video detection cameras. (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

B. Install 10' breakaway pedestal pole with countdown pedestrian signal head and APS pushbutton with pedestrian education sign (R10-3(1). (Note: 1-3" 90° polyvinyl chloride (Schedule 80) bend.)

C. Install NEMA size "6" base-mounted cabinet and controller with all necessary equipment as shown.

D. Install metered pedestal for electrical utility service equipment.

E. Install handhole.

F. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

G. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (slotted).

H. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (bored).

J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

L. Install proposed parallel handicap ramp (STD. No. MD 655.12) with detectable warning surface (STD. No. MD 655.40).

M. Install proposed handicap ramp with detectable warning surface (STD. No. MD 655.40). (Note:Contractor shall remove existing handhole to install proposed ramp.)

N. Install retaining wall (3hx4lx6l) with 4'x6' wood post as shown.

O. Install retaining wall (3hx4lx8l) with 4'x6' wood post as shown.

P. Install 12" white heat applied preformed thermoplastic pavement marking.(Crosswalk) (Note:Contractor shall remove all existing crosswalk.)

Q. Install 24" white heat applied preformed thermoplastic pavement marking.(Stopline)

R. Install non-invasive micro loop probe sets with 500' lead-in cables from stopline.

S. Install ground mounted sign as shown.

T. Install ground mounted sign on existing wood post as shown.

U. Remove existing span wire with all attached signal equipment.

V. Remove existing pole mounted cabinet, controller and all other signal equipment from wood pole as shown.

W. Remove existing signal equipment from wood pole as shown.

X. Remove existing pavement markings as shown.

Y. Install 8" curb and gutter as shown.

Z. Install 4" polyvinyl chloride electrical conduit (Schedule 80) and 2" polyvinyl chloride (Schedule 80 in same slot.

aa. Remove existing handhole.

SIGNAL HEAD AND SIGN DIMENSIONS

GENERAL NOTES:

1. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.

2. 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, and MD 818.04 The contractor shall verify ultimate grades prior to the installation of all signal equipment.

3. All pavement markings detailed are proposed and are to be installed in accordance with SHA standards. All crosswalks shall be centered on handicap ramps.

4. Pushbuttons are to be located so that they can be activated by a person in a wheelchair reaching less than 18" from a 60"x 60" level landing area with a cross slope of less than or equal to 2%.

5. The 10' separation between pushbuttons is to be measured from face of pushbutton to face of pushbutton, not center to center of pole.

6. Pushbutton arrows are to be parallel to the crossing for which they are intended.

7. Location of Accessible Pedestrian signal pushbuttons must meet location requirements Of MUTCD Sec. 4E.09 and Fig. 4E.2 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.

8. The contractor shall remove all unused wiring.

OVERHEAD HEIGHTS	
TELEPHONE	20'-8"
TELEPHONE	22'-0"
CATV	23'-6"
COMM. FIBER	24'-8"
SECONDARY	28'-0"
SECONDARY	28'-6"
SECONDARY	29'-0"
PRIMARY	35'-0"

OVERHEAD HEIGHTS	
CATV	22'-6"
NEUTRAL	23'-6"
PRIMARY	32'-0"

GEOMETRIC LEGEND
PROPOSED
EXISTING

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES
AERIAL CABLE — A — A —
ELECTRIC — E — E —
TELEPHONE — T — T —
GAS — G — G —
SEWER — S — S —
WATER — W — W —
CABLE TV — TV — TV —

1 REDLINE REVISION 6/18/08
TEDD APPROVAL 6/19/08

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

REVISIONS
A SHA NO. 1AX1425185 5/12/08
RECONSTRUCT EXISTING SIGNAL TO MAST ARM, WITH APS AND CPS SIGNAL
JWA

REVISION "A"
STREET TRAFFIC STUDIES, LTD.
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FILE: @FILE@

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 64 at PANGBORN BLVD

HAGERSTOWN, MARYLAND

TRAFFIC SIGNAL PLAN

SCALE 1"= 20' DATE _____ CONTRACT NO. N/A

DESIGNED BY N/A
DRAWN BY N/A
CHECKED BY N/A
F.A.P. NO. _____
COUNTY Washington
LOGMILE 21006400.90
TIMS NO. 1957
TOD NO. _____

TS NO. | DRAWING NO. 1 OF 2 | SHEET NO. OF

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