

DRILL HOLES

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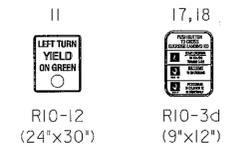
DRILL HOLES

BORDER REV. DATE: June 1, 2004

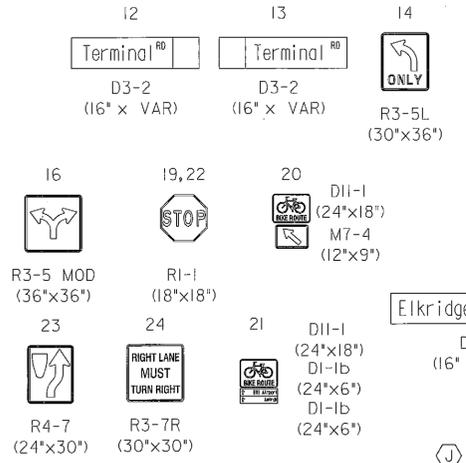


ELKRIDGE LANDING ROAD IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION

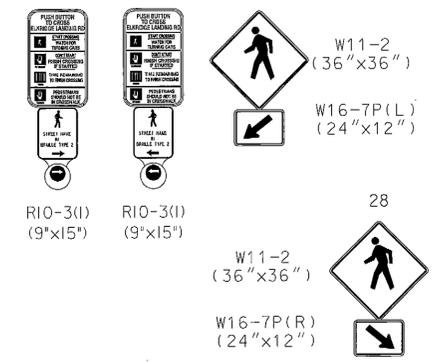
EXISTING SIGNS (TO BE REMOVED)



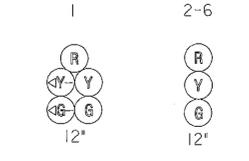
EXISTING SIGNS (TO REMAIN)



PROPOSED SIGNS



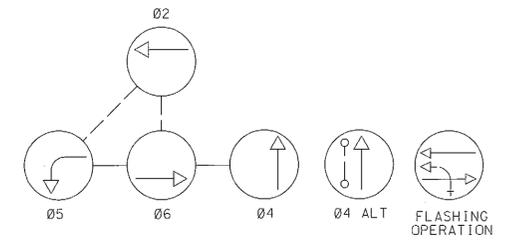
EXISTING SIGNALS (TO REMAIN)



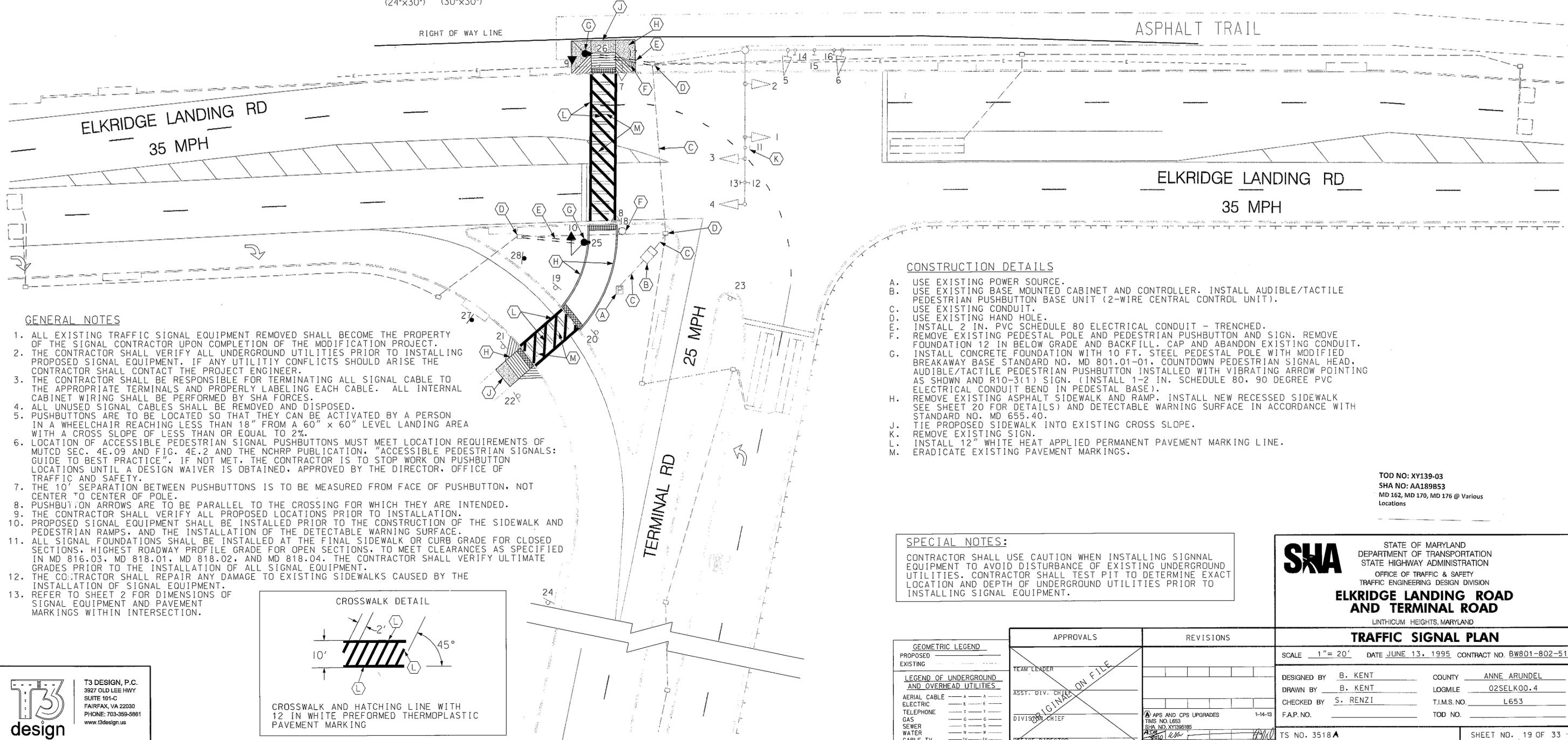
PROPOSED SIGNALS



NEMA PHASING

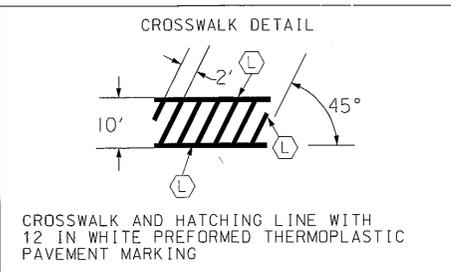


PHASING NOTES: 1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY 2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



GENERAL NOTES

- 1. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE MODIFICATION PROJECT.
2. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE.
4. ALL UNUSED SIGNAL CABLES SHALL BE REMOVED AND DISPOSED.
5. 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%.
6. 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".
7. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
8. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
9. THE CONTRACTOR SHALL VERIFY ALL PROPOSED LOCATIONS PRIOR TO INSTALLATION.
10. PROPOSED SIGNAL EQUIPMENT SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE SIDEWALK AND PEDESTRIAN RAMPS, AND THE INSTALLATION OF THE DETECTABLE WARNING SURFACE.
11. ALL 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.
12. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
13. REFER TO SHEET 2 FOR DIMENSIONS OF SIGNAL EQUIPMENT AND PAVEMENT MARKINGS WITHIN INTERSECTION.



CONSTRUCTION DETAILS

- A. USE EXISTING POWER SOURCE.
B. USE EXISTING BASE MOUNTED CABINET AND CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT (2-WIRE CENTRAL CONTROL UNIT).
C. USE EXISTING CONDUIT.
D. USE EXISTING HAND HOLE.
E. INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
F. REMOVE EXISTING PEDESTAL POLE AND PEDESTRIAN PUSHBUTTON AND SIGN. REMOVE FOUNDATION 12 IN BELOW GRADE AND BACKFILL. CAP AND ABANDON EXISTING CONDUIT.
G. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE STANDARD NO. MD 801.01-01, COUNTDOWN PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON INSTALLED WITH VIBRATING ARROW POINTING AS SHOWN AND R10-3(1) SIGN.
H. REMOVE EXISTING ASPHALT SIDEWALK AND RAMP. INSTALL NEW RECESSED SIDEWALK SEE SHEET 20 FOR DETAILS) AND DETECTABLE WARNING SURFACE IN ACCORDANCE WITH STANDARD NO. MD 655.40.
J. TIE PROPOSED SIDEWALK INTO EXISTING CROSS SLOPE.
K. REMOVE EXISTING SIGN.
L. INSTALL 12" WHITE HEAT APPLIED PERMANENT PAVEMENT MARKING LINE.
M. ERADICATE EXISTING PAVEMENT MARKINGS.

SPECIAL NOTES:

CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.

TOD NO: XY139-03
SHA NO: AA189B53
MD 162, MD 170, MD 176 @ Various Locations

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION ELKRIDGE LANDING ROAD AND TERMINAL ROAD LINTHICUM HEIGHTS, MARYLAND

TRAFFIC SIGNAL PLAN

Table with columns for APPROVALS, REVISIONS, GEOMETRIC LEGEND, LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES, and project details like SCALE, DATE, CONTRACT NO., DESIGNED BY, DRAWN BY, CHECKED BY, F.A.P. NO., TS NO., SHEET NO.

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