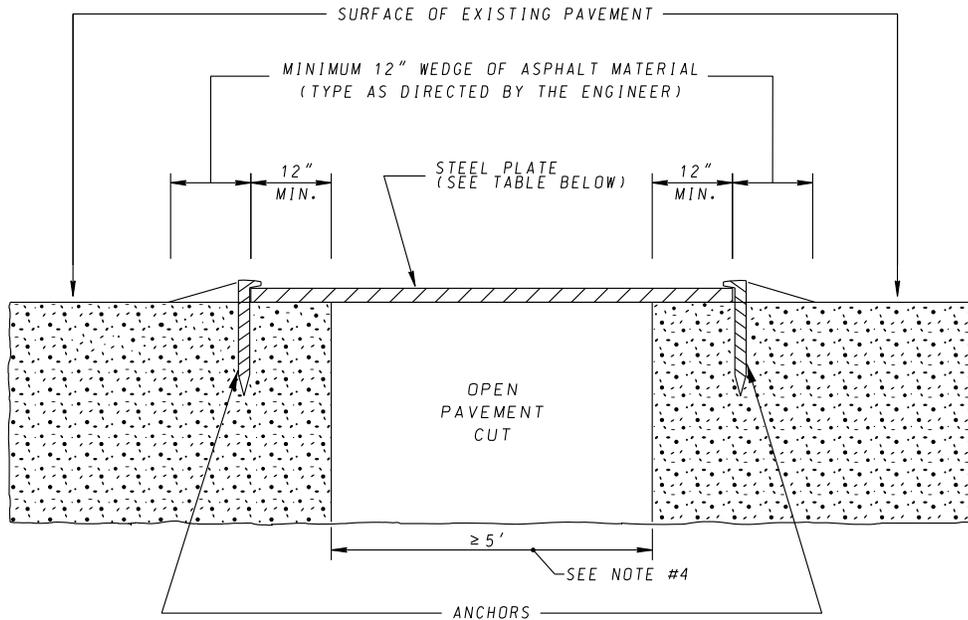


STANDARD DETAIL:

* METHOD '2' SHALL BE USED FOR CEMENT CONCRETE PAVEMENT SECTIONS, REGARDLESS OF SPEED.*

METHOD '2', FOR SPEEDS EQUAL TO OR LESS THAN 40 MPH (SEE DETAIL BELOW)

APPROACH PLATES AND ENDING PLATE OF LONGITUDINAL PLACEMENT SHALL BE ATTACHED TO THE ROADWAY BY A MINIMUM OF 1 ANCHOR PRE-DRILLED INTO THE CORNERS OF THE PLATE AND DRILLED A MINIMUM 2 INCHES INTO THE PAVEMENT. SUBSEQUENT PLATES ARE BUTTED TO EACH OTHER AND WELDED PER SECTION 875. ASPHALT MATERIAL SHALL BE COMPACTED TO FORM RAMPS. MAXIMUM SLOPE 8.5% WITH A MINIMUM 12 INCH TAPER TO COVER ALL EDGES OF THE STEEL PLATES. CONTRACTOR'S PROPOSED METHOD OF ANCHORING SHALL BE APPROVED BY THE ENGINEER.



STEEL PLATE DETAIL (METHOD 2, EQUAL TO OR LESS THAN 40 MPH)
NOT TO SCALE

THE FOLLOWING TABLE SHOWS THE ADVISORY MINIMAL THICKNESS OF STEEL PLATE BRIDGING REQUIRED FOR A GIVEN TRENCH (WITH A-36 GRADE STEEL):

| TRENCH WIDTH | MINIMUM PLATE THICKNESS |
|--------------|-------------------------|
| < 5' | 1" |
| ≥ 5' | SEE NOTE #4 |

NOTES

1. STEEL PLATE USAGE WILL BE INCIDENTAL TO THE WORK BEING DONE/PROTECTED UNLESS AN ITEM FOR STEEL PLATES IS INCLUDED IN THE CONTRACT SCHEDULE OF PRICES.
2. STEEL PLATE INSTALLED SHALL HAVE A MAXIMUM ONE INCH DEFLECTION. STEEL PLATES SHALL BE WELDED TOGETHER BY A LICENSED WELDER PER SECTION 875.
3. THE TOP SURFACE OF THE STEEL PLATE SHALL BE SLIP RESISTANT AND MEET OR EXCEED A MINIMUM INITIAL AVERAGE SKID RESISTANCE VALUE OF 30 BPN (BRITISH PENDULUM NUMBER) ACCORDING TO ASTM E303.
4. FOR TRENCH WIDTHS EQUAL TO OR GREATER THAN 5 FT. STEEL PLATE AND SUPPORT SYSTEM SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND AND APPROVED BY THE SHA ENGINEER.
5. STEEL PLATE BRIDGING IS NOT ALLOWED ON EXPRESSWAYS/FREEWAYS.
6. ANCHORS ARE TO BE A MIN. OF 6 IN. IN LENGTH.

| | |
|---|--|
| SPECIFICATION - | CATEGORY CODE ITEMS |
| APPROVED | <i>[Signature]</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT |
|  | APPROVAL • SHA REVISIONS |
| | APPROVAL 4-12-16 |
| | REVISED 5-19-16 |
| | REVISED |
| | REVISED |

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STEEL PLATE
METHOD 2, EQUAL TO OR LESS THAN 40 MPH
STANDARD NO. MD 104.01-86