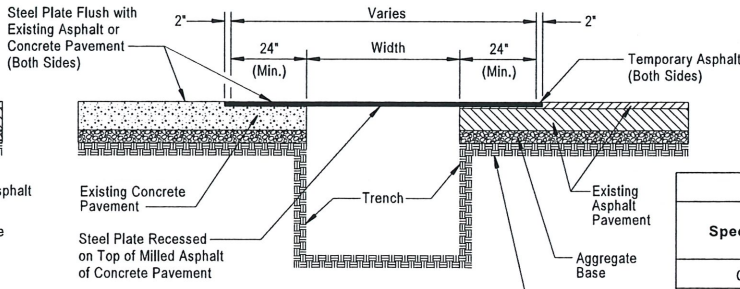


Type 1



Type 2

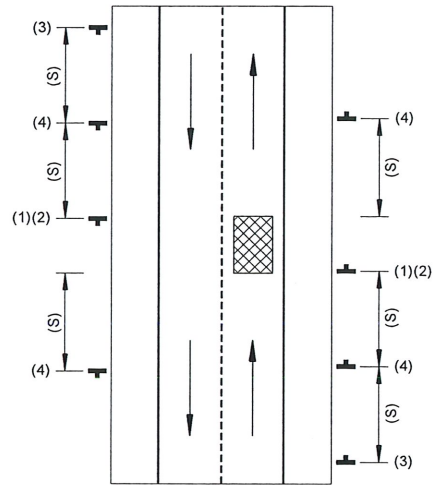
Steel Plate Installation	Posted Speed Limit
Type 1	45 MPH or Less
Type 2	Greater than 45 MPH

Sign Spacing for Excavations with Steel Plate		
Speed (MPH)	Sign Spacing (S) (in feet)	
	Undivided Roadway	Divided Roadway
0 - 35	200	* (see note below)
40 - 45	350	* (see note below)
50 - 55	500	* (see note below)

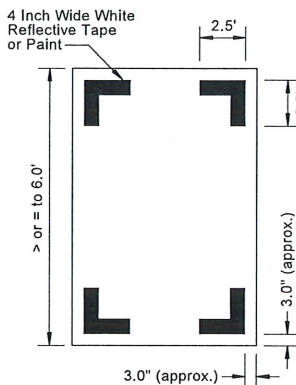
Sign height shall be on 1-foot portable stand or 7-foot post.

* For divided roadways use MoDOT standard drawing 616.8.47b (TA-47b).

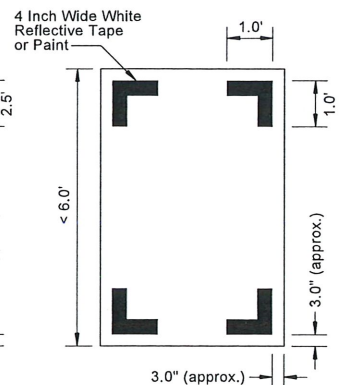
Minimum Ramp Taper Lengths	
Vertical Distance (V) (Inch)	Ramp Horizontal Distance (H) (min.) (Inches)
$V \leq 1$	12
$1 < V \leq 1-1/2$	18
$1-1/2 < V \leq 2$	24



616.8.47a (TA-47a)
(Undivided Roadway)



Steel Plates With Any Side > or = to 6 Feet in Length



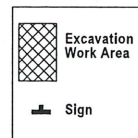
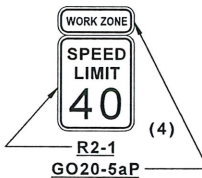
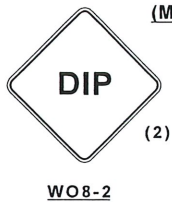
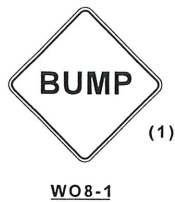
Steel Plates With Any Side < 6 Feet in Length

GENERAL NOTES

- Do not scale drawing, follow dimensions.
- Use TYPE 1 plate installation where posted speed limit 45 MPH or less. Use TYPE 2 plate installation where posted speed limit greater than 45 MPH.
- For TYPE 2 plate installation, the steel plate shall be recessed by milling into the existing asphalt or concrete to set flush with the surface of the existing asphalt or concrete. Full depth cutting of pavement section outside of trench is not permitted. Milling depth shall match thickness of plate. The gap between the edge of the plate and the adjacent existing asphalt or concrete pavement must be filled with temporary asphalt.
- For trench widths less than or equal to 4.0 feet as determined in the direction of travel, the plate thickness shall be a minimum of 1-inch. For a trench width greater than 4.0 feet in width, a structural design shall be submitted to the Engineer for review and approval before use.
- Structural design shall be in accordance with Section 626.2.2.2 for trench spans greater than 4.0 feet as measured in the direction of travel.
- Plates shall be fabricated from ASTM A36 steel (minimum).
- Plates shall be secured from lateral movement and vertical vibration (associated noise) while in use by temporary asphalt (cold mix). An approved mechanical fastened ramp may be used in place of asphalt wedging as approved by the Engineer.
- Plate reflectivity marking tape shall be in accordance with Section 621.2.3 of the Standard Specifications.
- Plate materials, design, skid resistance, installation and maintenance shall be in accordance with Standard Specifications Manual Section 626, "Temporary Steel Plate Trench Bridging".

Signage (MUTCD)

Note: Speed limit reduction requires Director's approval prior to use.



ISSUE DATE 03/09/2020	THIS IS NOT A CERTIFIED DOCUMENT	 Saint Louis COUNTY TRANSPORTATION 1050 NORTH LINDBERGH BLVD. ST. LOUIS, MISSOURI 63132	STANDARD DRAWING TEMPORARY STEEL PLATE TRENCH BRIDGING	
REVISIONS			EFFECTIVE 05/01/2020	SHEET 1 OF 1