

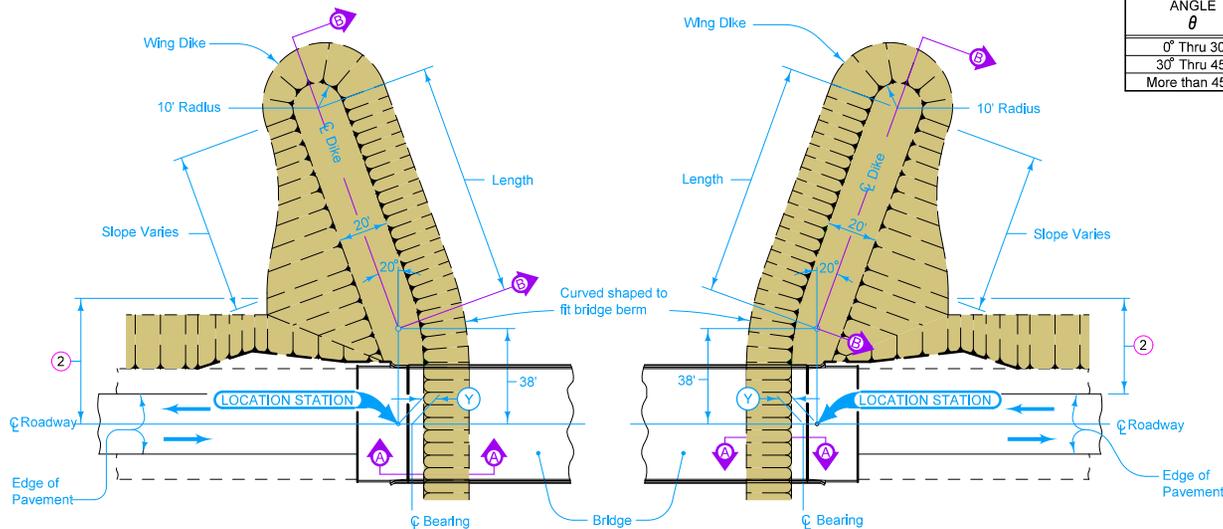
TYPICAL PLAN VIEW OF DIKE CONSTRUCTION AT SKEWED BRIDGE

For guidelines to determine wing dike lengths or when to use wing dikes, see the Office of Bridges and Structures' Preliminary Design Bridge Manual.

Build wing dikes with an additional skew angle of 20 degrees to the skew angle of the bridge. The location method will be similar when the direction of flow or skew is opposite that indicated.

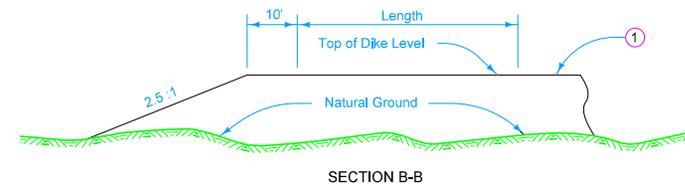
Necessary materials for construction of the dikes are included on the tabulation of "Estimate of Quantities" for excavation. Price bid for "Excavation of the class specified" is full compensation for construction of dikes as indicated hereon.

- ① Match the bridge top of berm elevation unless noted otherwise.
- ② Construct portions of wing dikes within 50 feet of the edge of the traffic lane for the approach traffic with a slope of 8:1 parallel to traffic. Construct the stream side slope of the wing dike to 2.5:1 as shown.

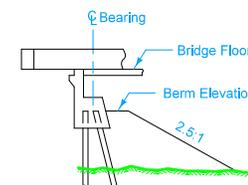


TYPICAL PLAN VIEW OF DIKE CONSTRUCTION AT NON-SKEWED BRIDGE

SKEW ANGLE $\theta$	DIMENSION (Y)
0° Thru 30°	$5.5' / \cos \theta$
30° Thru 45°	$4.5' / \cos \theta$
More than 45°	$3.5' / \cos \theta$



SECTION B-B



SECTION A-A

<p>Iowa Department of Transportation</p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: New. Replaces RL-3.</p>	<p>REVISION</p> <p>New 04-16-13</p>
	<p><b>EW-210</b></p> <p>SHEET 1 of 1</p>
	<p><i>Deanna Macfield</i></p> <p>APPROVED BY DESIGN METHODS ENGINEER</p>

**STANDARD WING DIKES**