11.10.11 MSE ABUTMENTS

ITD's Special Provision stipulates that 15° is the maximum angle that reinforcement can be skewed from a line perpendicular to the wall. The layout of the abutment in relation to the MSE wall should take the above into account.

Where interference between the piles, drilled shafts, or concrete columns and soil reinforcement occurs, the reinforcements must be designed around the casings that are used to encase those piles, drilled shafts, or concrete columns. A clear distance of no less than 1.5 feet from the back of the wall facing to the edge of the nearest casing or deep foundation element shall be provided in accordance with the AASHTO LRFD Bridge Design Specifications.

When skewing of the reinforcements up to 15 degrees is needed to avoid interference of the casings, use the setback dimensions in the Table below.

For two-stage walls with concrete panels, assume a minimum 6" air gap between the welded wire wall and concrete facing panel.

Commentary

The setback dimensions are not applied if the wall fabricator uses a different means to solve the problem of obstruction of the casing.



Casing Diameter -ft	Distance from casing to fill face of MSE panel - ft
1.0	1.50
1.5	2.25
2.0	3.00
2.5	3.50
3.0	4.50
3.5	5.00
4.0	6.00

Revisions:

Oct 2023

Added notes for welded wire walls. Rounded distance from casing to MSE wall Clarified the type of obstructions.