



Notes:

- Top of sheet piling at wings to match top of abutment elevation. For sheet pile cover plate details, see Sheets J245-24-25 and J245-25-25.
- ▲ The guardrail post #15 (open concrete rails only) may require adjustment to ensure adequate clearance from the backwall sheeting and backwall cover plate. See Sheet J245-25-25 and roadway sheets for post locations. The Bridge Contractor shall verify clearances for guardrail post installation, and make any necessary adjustments. Post #15 blockout lengths may be field adjusted to facilitate guardrail installation.

Sheet Pile Backwall and Wing Wall Quantities

Number of Sheet Piles	Per Wing Backwall	*N = W / 1.5'	Total = 2 x N + 26
	26		
Sheet Pile Area	(D1 + D2 + L) x W + 26 x 1.5' x (L - 2')		
Number of Tie Rods	*T = W / S + 1		

Notes:

All units are in feet.

Wing length "W" is to be calculated by the Engineer based on height from grade to top of berm "H" and wing slope.

* Number of wing wall sheet piles and tie rods shall be calculated as shown and rounded up to a whole number.

See Sheet J245-24-25 for "D1" + "D2" values required (minimum embedment depths).

Table of Required Tie Rod Spacing

Abutment Height "H"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"
Maximum Tie Rod Spacing "S"	9'-2"	8'-4"	7'-3"	5'-11"	4'-11"

Notes:

Refer to Sheet J245-24-25 for sheet pile height ("H") details.

Tie rod spacing ("S") shall be selected to avoid conflicts with the guardrail posts.

