

TABLE 4

TABLE FOR ADJUSTING PLATFORM HEIGHT OFFSET ON
INSIDE OF CURVE BASED ON E_A AND D_C

		DEGREE OF CURVATURE (°)											
		H _{LOWER} (mm [in])											
		INSIDE	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
SUPERELEVATION (in)	1	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	19.1 [3/4"]	25.4 [1"]	25.4 [1"]
	1.5	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]	31.8 [1 1/4"]
	2	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	44.5 [1 3/4"]	44.5 [1 3/4"]
	2.5	44.5 [1 3/4"]	44.5 [1 3/4"]	44.5 [1 3/4"]	44.5 [1 3/4"]	50.8 [2"]	50.8 [2"]	50.8 [2"]	50.8 [2"]	50.8 [2"]	50.8 [2"]	50.8 [2"]	50.8 [2"]
	3	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	63.5 [2 1/2"]	63.5 [2 1/2"]
	3.5	63.5 [2 1/2"]	63.5 [2 1/2"]	63.5 [2 1/2"]	63.5 [2 1/2"]	63.5 [2 1/2"]	69.9 [2 3/4"]	69.9 [2 3/4"]	69.9 [2 3/4"]	69.9 [2 3/4"]	69.9 [2 3/4"]	69.9 [2 3/4"]	69.9 [2 3/4"]

FOR COMBINATIONS OF D_C AND E_A THAT ARE NOT IN THE TABLE, USE THE FOLLOWING EQUATION:

$$H_{\text{LOWER}} = \frac{5}{8} [X_i - (\frac{B}{2})] + W_c + (\frac{B}{8}) E_A]$$

WHERE:

 X_i : 1753 mm

B: DISTANCE BETWEEN RAIL CENTERS (TABLE 4 USES 136lb RAIL = 1510 mm)

h: STANDARD PLATFORM HEIGHT ABOVE TOP OF RAIL (MIXED USE PLATFORM = 127 mm)

 W_c : ADDITIONAL WIDENING DUE TO HORIZONTAL CURVATURE (25.4 mm PER DEGREE OF CURVE) H_{LOWER} VALUES ARE TO BE ROUNDED UP TO NEAREST 6 mm OR $\frac{1}{4}$ in

TABLE 5

TABLE FOR ADJUSTING PLATFORM HEIGHT OFFSET ON
OUTSIDE OF CURVE BASED ON E_A AND D_C

		DEGREE OF CURVATURE (°)											
		H _{RAISE} (mm [in])											
		OUTSIDE	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
SUPERELEVATION (in)	1	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]	38.1 [1 1/2"]
	1.5	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	57.2 [2 1/4"]	63.5 [2 1/2"]	63.5 [2 1/2"]
	2	76.2 [3"]	76.2 [3"]	76.2 [3"]	76.2 [3"]	76.2 [3"]	82.6 [3 1/4"]	82.6 [3 1/4"]	82.6 [3 1/4"]	82.6 [3 1/4"]	82.6 [3 1/4"]	82.6 [3 1/4"]	82.6 [3 1/4"]
	2.5	95.3 [3 3/4"]	95.3 [3 3/4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]	101.6 [4"]
	3	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	120.7 [4 3/4"]	127 [5"]	127 [5"]
	3.5	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	139.7 [5 1/2"]	146.1 [5 3/4"]	146.1 [5 3/4"]	146.1 [5 3/4"]	146.1 [5 3/4"]

FOR COMBINATIONS OF D_C AND E_A THAT ARE NOT IN THE TABLE, USE THE FOLLOWING EQUATION:

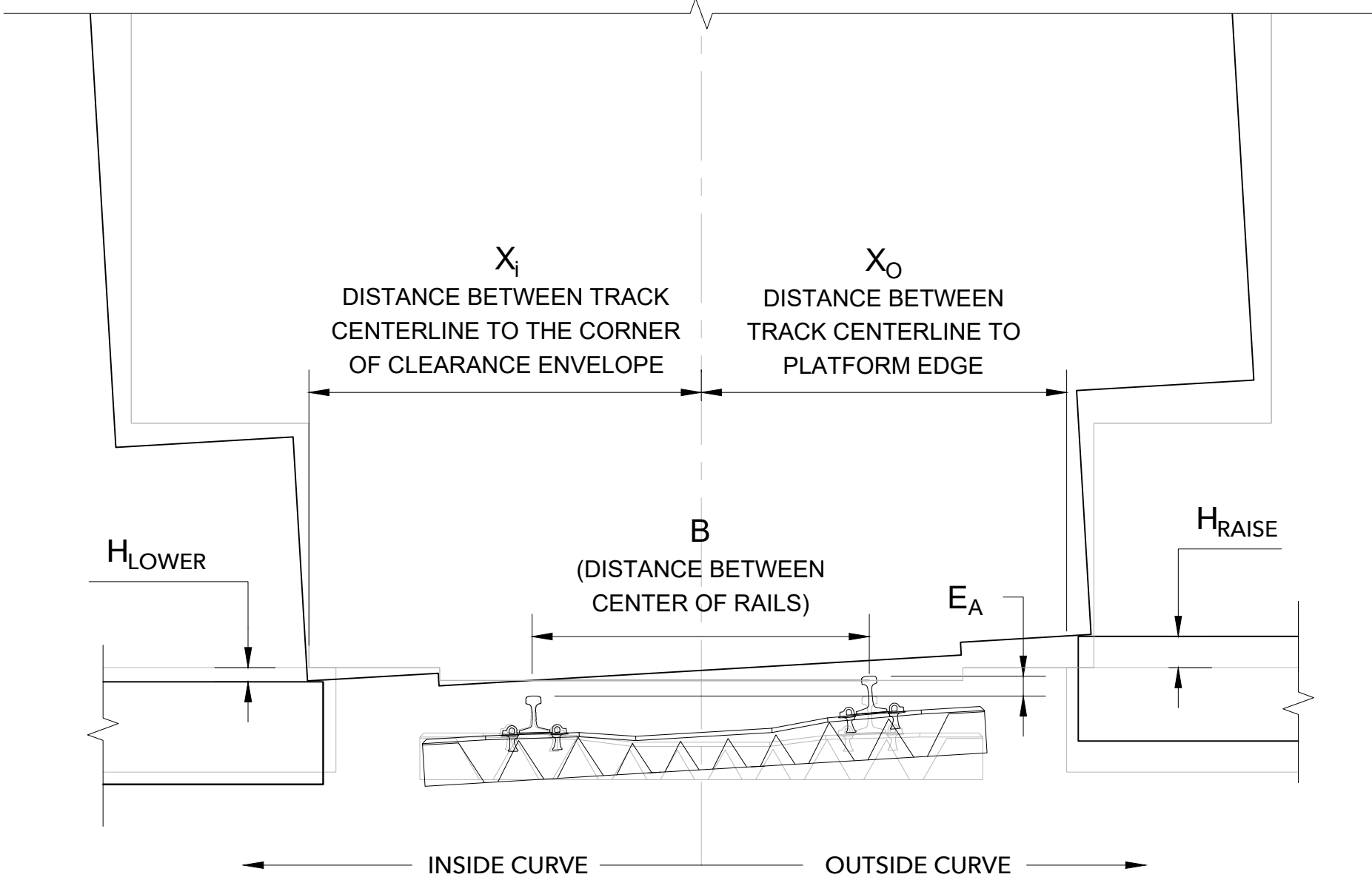
$$H_{\text{RAISE}} = \frac{5}{8} [X_o + \frac{B}{2} + W_c]$$

WHERE:

 X_o : 1632 mm (FOR ACCESSIBILITY PLATFORMS, APPROPRIATE PLATFORM OFFSET IS TO BE USED IN FORMULA FOR H_{RAISE})

B: DISTANCE BETWEEN RAIL CENTERS (TABLE 5 USES 136lb RAIL = 1510 mm)

h: STANDARD PLATFORM HEIGHT ABOVE TOP OF RAIL (MIXED USE PLATFORM = 127 mm)

 W_c : ADDITIONAL WIDENING DUE TO HORIZONTAL CURVATURE (25.4 mm PER DEGREE OF CURVE) H_{RAISE} VALUES ARE TO BE ROUNDED DOWN TO NEAREST 6 mm OR $\frac{1}{4}$ in

PLATFORM ON CURVED TRACK

ADJUSTMENT OF PLATFORM HEIGHT FOR SUPERELEVATION AND
PLATFORM HORIZONTAL OFFSET FOR DEGREE OF CURVATURE

CURVED PLATFORM DESIGN EXAMPLE:

- $D_c = 2^\circ$
- $E_a = 2"$
- 115lb RAIL
- MIXED USE PLATFORM
- HORIZONTAL OFFSET: 1632 mm FROM TRACK CENTERLINE IN TANGENT TRACK (915 mm FROM GAUGE FACE OF RAIL)
- VERTICAL OFFSET: 127 mm FROM TOP OF RAIL IN TANGENT TRACK

