

$\psi_{ed,N} \Rightarrow$ (a min is; 4, 6, 8 or 12)

$$\psi_{ed,N} 4 = .8$$

$$\psi_{ed,N} 6 = .85$$

$$\psi_{ed,N} 8 = .9$$

$$\psi_{ed,N} 12 = 1$$

$$\underline{\psi_{ed,N}} = \underline{1} \quad \underline{.9} \quad \underline{.85} \quad \underline{.8}$$

$\psi_{C,N} \Rightarrow$ POST INSTALLED ANCHORS
(D.5.2.6)

$$\underline{\psi_{C,N}} = \underline{1.4}$$

$$\psi_{CPN} = \frac{C_{9,min}}{C_{9C}} \quad (D.5.2.7)$$

$$C_{9C} = 4 n_{ef} = 4 \cdot 8 = 32 \quad D.5.6$$

TO MAXIMIZE BREAK OUT STRENGTH
 $C_{9,min}$ MUST BE EQUAL TO 32

WITH REINFORCED
CONCRETE

$$\underline{\psi_{CPN}} = \frac{32}{32} = \underline{1}$$

$$\psi_{CPN_{reinforced}} = 1$$

$$N_b = K_c \cdot \lambda_g \cdot \sqrt{f'_c} \cdot (h_{sc})^{1.5} \quad (D.5.2.2) \quad D.5.2.2$$

$$K_c = 17$$

$$\lambda_g = 1 \quad \text{For STD WEIGHT CONCRETE.}$$

$$\sqrt{f'_c} = \sqrt{5000} = 70.7$$

D.3.7

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