Prevent of Inertia by Dellection Calculation  
For Ice & Ie & Ig  

$$Ie = \left(\frac{\mu_{ee}}{\mu}\right)^{3} \times I_{g} + \left[1 - \left(\frac{\mu_{ee}}{\mu}\right)^{3}\right] + Ier
or
Ie = Ice + \left(I_{g} - Ier\right) \left(\frac{\mu_{ee}}{\mu}\right)^{3}\right] + Ier
For Single ratioforced reclongular suction
for
Ie = Ice + (I_{g} - Ier) \left(\frac{\mu_{ee}}{\mu}\right)^{3}\right] + Ier
or
Ie = Ice + (I_{g} - Ier) \left(\frac{\mu_{ee}}{\mu}\right)^{3}\right] + Ier
Ac I \rightarrow 2 encles (embineus)
Ie (encl) = cot Termal tests (Ig I)
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$$S = 33 \circ \left(\frac{28}{13}\right) - 2.5 C_{c} \langle 300 \left(\frac{28}{11}\right)$$

$$S: bar spacing in man (control to (and to 1))$$

$$I_{1} = \frac{2}{3} \frac{1}{52}$$

$$J_{1} = \frac{1}{3} \frac{1}{52} \frac{1}{5$$

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$$T_{u} > T_{u} + T_{oriten number} Consultancel
T_{o} = 0.75 \frac{\sqrt{\Gamma'_{u}}}{12} \left(\frac{\Lambda c p^{2}}{\Gamma c p}\right) \neq 10^{c}}{\frac{\Lambda v}{s}} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{s} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{s} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{s} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{f} \frac{M^{2}}{s} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{s} \frac{M^{2}}{f} \frac{M^{2}}{s} \frac{M^{2}}{s} + \frac{2\Lambda t}{s} = Longer Of \int_{t}^{t} \frac{bv}{f} \frac{M^{2}}{s} \frac{M^{2}}{f} \frac{M^{2}}{s} \frac$$

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- 0

Splined Footing Tind Column L/2 G,102  $\chi = \frac{\varphi_2 L_3}{\varphi_1 + \varphi_2} \stackrel{\text{wh}}{=}$  $, L = 2(x+L_{1})$ L,= L- L2 - L3, B= A Sary = 8,18,12 ex/Lx In = Lall - Vary th Aren required = DL+LL unlachered 2n Factored net pressure 7 = 1.2 DL + 1.6 LL Area = Bth t t 1 gan \*B † G, - (2 +8-12.) A) 44 **2** d=h-100 Aren burg buching. you = Q - Inu A 0 Check two way shear \* assume a = 0.2 d -> As she think Check one way shear 10 N 200

Blaxial Bruding of thert columns Putto Ag (Irml) > e. 4(FL 14.5 \$7) Spinal column Pasio 0.5(5/14.5 13) Ag (Irial) 2 compute ØPnx (Shi) Muy = Pucx er = Muy/Pu Shi = a - 80 - 90 - De the معطى الرحة 8 = Shi hi-Ly ~mm 8= As/Agrmm2 ile Murphan Chart - or + FE -> Fy -> & Or Part = where # 103 => PPart = +624 compute ØPny ey = Mux/Pu , ex/Ly 8 = 8h2/h= Ly 8 = As/Ag-mm2 => chart Pry= war +103 + 6 + 12" compute @Protes = ma 0.65 (0,85 + Fic (Ag-As) + As Fy) 1 = 1 + 1 P I PRO Pu > Pu > ok

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Tu > To + Torsion multhe 1 & Maximum ut Hund soil pressure -+ well Looking an sloop d = h - 90 mm  $I = \frac{p}{A} + \frac{My}{2}$ d = h - loomm -> any footing 2 forting Assume a = 0,2 d - A. - a - A. 1 + M + G They = Jall - h + Dary Area required = ED1 + ELL ~> unfactured maximum uldimate Flexural moment 2not deniler bar Mu = 2 + b + C2 is Perelopmenting the Fytol, 7 JEE Spainimum ultimat seil pressur Maximum bearing hoad of the cohine 2 = P - My/I  $N = 0.65 + 0.85 + FC + A, + \sqrt{A_2}$ Masley P) soil pressur at A KN >< 0,65 x 1,7 \*F . FA. Inu = P = Mry, Myy A, - area Column A2- $\int_{mu} = \frac{P}{A} + \frac{M_1 y_x}{I_y} + \frac{M_3 y_y}{I_y} A$ 1 12 > 2 use 2 provide minimum area douds Areact double > 0,005A, NL Pu => Area of dowels required SN-Pu opsall Fy Skender -

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