Company: PDelta Ingenieria Estructural S.A.S **Engineer:** Ing. Osvaldo Guzman A
Project: P046-2024 - PLAZA DOÑA CEIBA (CAMERINOS) 5:26:21 p. m. 26/06/2024
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MATERIALS

Number of materials = 1

REINFORCED CONCRETE

Mat	Name	f'c Kg/cm2	fy Kg/cm2	fys1 Kg/cm2	fys2 Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
1	RConcrete1	210	4200	4200	4200	218540	87430	2400.0

f'c: Compressive strength of concrete
fy: Yield strength of longitudinal reinforcement
fys1: Yiel strength of shear reinforcement, bar sizes <= 3/8"
fys2: Yiel strength of shear reinforcement, bar sizes > 3/8"

COLUMN SECTIONS

Number of prismatic sections = 2

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	C-25X25	Rectang	25.00	25.00	-	-	-	-	625.0	32552	32552	48177
2	C-25X30	Rectang	25.00	30.00	-	-	-	-	750.0	56250	39062	74219

Design Results - Columns (DMO)

Column	Story	L (m)	Lu (m)	Sec Mat	bxh (cm)	TRANSVERSE REINFORCEMENT TIES	TRANSVERSE REINFORCEMENT XTIES	LONGITUDINAL REINFORCEMENT Sec	LdCmb critc	Pu (ton)	Mu2 (ton-m)	Mu3 (ton-m)	RHO -	As (cm2)
1-C	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	24	3.91	0.54	1.61	0.0100	6.25
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	26	3.57	0.31	1.81	0.0100	6.25
2-C	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	25	5.11	0.75	2.16	0.0101	6.32
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	25	5.11	0.70	2.43	0.0125	7.79
3-C	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	22	2.52	0.99	0.58	0.0100	6.25
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	25	2.80	0.43	1.80	0.0100	6.25
1-B	1	3.05	2.83	2	25x30	7 #3 @ 8 cm (end)	1 (b)	Top	21	7.54	1.81	2.57	0.0125	9.35
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	20	7.54	2.49	1.79	0.0107	8.03
2-B	1	3.05	2.83	2	25x30	7 #3 @ 8 cm (end)	1 (b)	Top	23	11.45	0.46	3.08	0.0100	7.50
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	23	11.45	0.67	3.13	0.0101	7.59
3-B	1	3.05	2.83	2	25x30	7 #3 @ 8 cm (end)	1 (b)	Top	32	0.94	0.53	1.16	0.0100	7.50
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	19	3.30	2.08	0.64	0.0100	7.50
1-A	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	26	3.91	0.54	1.61	0.0100	6.25
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	24	3.57	0.31	1.81	0.0100	6.25
2-A	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	23	5.11	0.75	2.16	0.0101	6.32
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	23	5.11	0.70	2.43	0.0125	7.79
3-A	1	3.05	2.83	1	25x25	7 #3 @ 8 cm (end)	1 (b)	Top	19	2.52	0.99	0.58	0.0100	6.25
				1		11 #3 @ 16 cm (ctr)	1 (h)	Bot	23	2.80	0.43	1.80	0.0100	6.25