

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 1)
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Engineer: Name
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GENERAL INPUT DATA

Structure type: Three-Dimensional Frame Structure
Number of Floor Grids = 1
Building total length = 39.35 m
Building total width = 17.71 m

STORY INFORMATION

Number of Stories = 1
Total Frame Height = 3.55 m

Floor	Story Height	Grid No
1	3.55	1
2	-	1

* Story Height in (m)

STRUCTURAL GRID INFORMATION

GRID No 1

Grid Point	X	Y
LI-1'	0.00	0.00
A'-1'	0.00	2.18
K-1'	0.00	4.36
B'-1'	0.00	6.31
J-1'	0.00	8.26
C'-1'	0.00	10.42
D'-1'	0.00	12.58
E'-1'	0.00	14.74
H-1'	0.00	16.90
F'-1'	0.00	17.71
LI-20	0.60	0.00
A'-20	0.60	2.18
K-20	0.60	4.36
B'-20	0.60	6.31
J-20	0.60	8.26
C'-20	0.60	10.42
D'-20	0.60	12.58
E'-20	0.60	14.74
H-20	0.60	16.90
F'-20	0.60	17.71
LI-2'	2.72	0.00
A'-2'	2.72	2.18
K-2'	2.72	4.36
B'-2'	2.72	6.31
J-2'	2.72	8.26
C'-2'	2.72	10.42
D'-2'	2.72	12.58
E'-2'	2.72	14.74
H-2'	2.72	16.90
F'-2'	2.72	17.71
LI-22	4.84	0.00
A'-22	4.84	2.18
K-22	4.84	4.36
B'-22	4.84	6.31
J-22	4.84	8.26
C'-22	4.84	10.42
D'-22	4.84	12.58
E'-22	4.84	14.74
H-22	4.84	16.90
F'-22	4.84	17.71
LI-3'	6.96	0.00
A'-3'	6.96	2.18
K-3'	6.96	4.36
B'-3'	6.96	6.31
J-3'	6.96	8.26
C'-3'	6.96	10.42
D'-3'	6.96	12.58
E'-3'	6.96	14.74
H-3'	6.96	16.90
F'-3'	6.96	17.71
LI-23	9.08	0.00
A'-23	9.08	2.18
K-23	9.08	4.36
B'-23	9.08	6.31
J-23	9.08	8.26
C'-23	9.08	10.42
D'-23	9.08	12.58

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Grid Point	X	Y
E'-23	9.08	14.74
H-23	9.08	16.90
F'-23	9.08	17.71
LI-4'	11.20	0.00
A'-4'	11.20	2.18
K-4'	11.20	4.36
B'-4'	11.20	6.31
J-4'	11.20	8.26
C'-4'	11.20	10.42
D'-4'	11.20	12.58
E'-4'	11.20	14.74
H-4'	11.20	16.90
F'-4'	11.20	17.71
LI-26	13.32	0.00
A'-26	13.32	2.18
K-26	13.32	4.36
B'-26	13.32	6.31
J-26	13.32	8.26
C'-26	13.32	10.42
D'-26	13.32	12.58
E'-26	13.32	14.74
H-26	13.32	16.90
F'-26	13.32	17.71
LI-5'	15.44	0.00
A'-5'	15.44	2.18
K-5'	15.44	4.36
B'-5'	15.44	6.31
J-5'	15.44	8.26
C'-5'	15.44	10.42
D'-5'	15.44	12.58
E'-5'	15.44	14.74
H-5'	15.44	16.90
F'-5'	15.44	17.71
LI-27	17.56	0.00
A'-27	17.56	2.18
K-27	17.56	4.36
B'-27	17.56	6.31
J-27	17.56	8.26
C'-27	17.56	10.42
D'-27	17.56	12.58
E'-27	17.56	14.74
H-27	17.56	16.90
F'-27	17.56	17.71
LI-6'	19.68	0.00
A'-6'	19.68	2.18
K-6'	19.68	4.36
B'-6'	19.68	6.31
J-6'	19.68	8.26
C'-6'	19.68	10.42
D'-6'	19.68	12.58
E'-6'	19.68	14.74
H-6'	19.68	16.90
F'-6'	19.68	17.71
LI-30	21.80	0.00
A'-30	21.80	2.18
K-30	21.80	4.36
B'-30	21.80	6.31
J-30	21.80	8.26
C'-30	21.80	10.42
D'-30	21.80	12.58
E'-30	21.80	14.74
H-30	21.80	16.90
F'-30	21.80	17.71
LI-7'	24.10	0.00
A'-7'	24.10	2.18
K-7'	24.10	4.36
B'-7'	24.10	6.31
J-7'	24.10	8.26
C'-7'	24.10	10.42
D'-7'	24.10	12.58
E'-7'	24.10	14.74
H-7'	24.10	16.90
F'-7'	24.10	17.71
LI-31	26.40	0.00
A'-31	26.40	2.18
K-31	26.40	4.36
B'-31	26.40	6.31
J-31	26.40	8.26
C'-31	26.40	10.42
D'-31	26.40	12.58
E'-31	26.40	14.74
H-31	26.40	16.90
F'-31	26.40	17.71
LI-8'	28.90	0.00
A'-8'	28.90	2.18

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Grid Point	X	Y
K-8'	28.90	4.36
B'-8'	28.90	6.31
J-8'	28.90	8.26
C'-8'	28.90	10.42
D'-8'	28.90	12.58
E'-8'	28.90	14.74
H-8'	28.90	16.90
F'-8'	28.90	17.71
LI-32	31.40	0.00
A'-32	31.40	2.18
K-32	31.40	4.36
B'-32	31.40	6.31
J-32	31.40	8.26
C'-32	31.40	10.42
D'-32	31.40	12.58
E'-32	31.40	14.74
H-32	31.40	16.90
F'-32	31.40	17.71
LI-9'	34.36	0.00
A'-9'	34.36	2.18
K-9'	34.36	4.36
B'-9'	34.36	6.31
J-9'	34.36	8.26
C'-9'	34.36	10.42
D'-9'	34.36	12.58
E'-9'	34.36	14.74
H-9'	34.36	16.90
F'-9'	34.36	17.71
LI-33	35.78	0.00
A'-33	35.78	2.18
K-33	35.78	4.36
B'-33	35.78	6.31
J-33	35.78	8.26
C'-33	35.78	10.42
D'-33	35.78	12.58
E'-33	35.78	14.74
H-33	35.78	16.90
F'-33	35.78	17.71
LI-34	37.32	0.00
A'-34	37.32	2.18
K-34	37.32	4.36
B'-34	37.32	6.31
J-34	37.32	8.26
C'-34	37.32	10.42
D'-34	37.32	12.58
E'-34	37.32	14.74
H-34	37.32	16.90
F'-34	37.32	17.71
LI-10'	39.35	0.00
A'-10'	39.35	2.18
K-10'	39.35	4.36
B'-10'	39.35	6.31
J-10'	39.35	8.26
C'-10'	39.35	10.42
D'-10'	39.35	12.58
E'-10'	39.35	14.74
H-10'	39.35	16.90
F'-10'	39.35	17.71

* Coordinates X & Y are in (m)

MATERIALS

Number of materials = 2

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
2	RConcrete2	280	4200	4200	4200	252350	100940	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"

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MEMBER DATA

Total number of members..... = 155
Number of columns..... = 23
Number of beams = 164
Number of braces = 0

COLUMN SECTIONS

Number of prismatic sections = 1

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-30X40	Rectang	30.00	40.00	-	-	-	-	1200.0	160000	90000	189900

COLUMNS

Column	Story	L (m)	Lu (m)	a (m)	c (m)	Theta (o)	Sec -	Mat -	System -
H-34	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
J-34	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-34	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-34	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
H-33	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
J-33	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
J-32	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-32	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-32	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-31	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-31	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-30	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-30	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-27	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-27	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-26	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-26	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-23	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-23	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-22	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-22	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
K-20	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L
LI-20	1	3.55	3.03	0.00	0.53	90.0	1	2	G&L

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BEAM SECTIONS

Number of prismatic sections = 3

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm ²)	I2 (cm ⁴)	I3 (cm ⁴)	J (cm ⁴)
1	VG-30X60	Rectang	30.00	60.00	-	-	-	-	1800.0	540000	135000	369900
2	VG-20X60	Rectang	20.00	60.00	-	-	-	-	1200.0	360000	40000	126400
3	VC-30X45	Rectang	30.00	45.00	-	-	-	-	1350.0	227812	101250	234900

BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	Sec -	Mat -	System -
LI (20-22)	1	4.24	3.84	0.20	0.20	3	2	G&L
LI (22-23)	1	4.24	3.84	0.20	0.20	3	2	G&L
LI (23-26)	1	4.24	3.84	0.20	0.20	3	2	G&L
LI (26-27)	1	4.24	3.84	0.20	0.20	3	2	G&L
LI (27-30)	1	4.24	3.84	0.20	0.20	3	2	G&L
LI (30-31)	1	4.60	4.20	0.20	0.20	3	2	G&L
LI (31-32)	1	5.00	4.60	0.20	0.20	3	2	G&L
LI (32-34)	1	5.92	5.52	0.20	0.20	3	2	G&L
K (20-22)	1	4.24	3.84	0.20	0.20	3	2	G&L
K (22-23)	1	4.24	3.84	0.20	0.20	3	2	G&L
K (23-26)	1	4.24	3.84	0.20	0.20	3	2	G&L
K (26-27)	1	4.24	3.84	0.20	0.20	3	2	G&L
K (27-30)	1	4.24	3.84	0.20	0.20	3	2	G&L
K (30-31)	1	4.60	4.20	0.20	0.20	3	2	G&L
K (31-32)	1	5.00	4.60	0.20	0.20	3	2	G&L
K (32-34)	1	5.92	5.52	0.20	0.20	3	2	G&L
J (32-33)	1	4.38	3.98	0.20	0.20	3	2	G&L
J (33-34)	1	1.54	1.14	0.20	0.20	3	2	G&L
H (33-34)	1	1.54	1.14	0.20	0.20	3	2	G&L
LI (1'-20)	2	0.60	0.40	0.00	0.20	1	2	G&L
LI (20-2')	2	2.12	1.92	0.20	0.00	1	2	G&L
LI (2'-22)	2	2.12	1.92	0.00	0.20	1	2	G&L
LI (22-3')	2	2.12	1.92	0.20	0.00	1	2	G&L
LI (3'-23)	2	2.12	1.92	0.00	0.20	1	2	G&L
LI (23-4')	2	2.12	1.92	0.20	0.00	1	2	G&L
LI (4'-26)	2	2.12	1.92	0.00	0.20	1	2	G&L
LI (26-5')	2	2.12	1.92	0.20	0.00	1	2	G&L
LI (5'-27)	2	2.12	1.92	0.00	0.20	1	2	G&L
LI (27-6')	2	2.12	1.92	0.20	0.00	1	2	G&L
LI (6'-30)	2	2.12	1.92	0.00	0.20	1	2	G&L
LI (30-7')	2	2.30	2.10	0.20	0.00	1	2	G&L
LI (7'-31)	2	2.30	2.10	0.00	0.20	1	2	G&L
LI (31-8')	2	2.50	2.30	0.20	0.00	1	2	G&L
LI (8'-32)	2	2.50	2.30	0.00	0.20	1	2	G&L
LI (32-9')	2	2.96	2.76	0.20	0.00	1	2	G&L
LI (9'-34)	2	2.96	2.76	0.00	0.20	1	2	G&L
LI (34-10')	2	2.03	1.83	0.20	0.00	1	2	G&L
A' (1'-20)	2	0.60	0.45	0.00	0.15	2	2	G
A' (20-2')	2	2.12	1.97	0.15	0.00	2	2	G
A' (2'-22)	2	2.12	1.97	0.00	0.15	2	2	G
A' (22-3')	2	2.12	1.97	0.15	0.00	2	2	G
A' (3'-23)	2	2.12	1.97	0.00	0.15	2	2	G
A' (23-4')	2	2.12	1.97	0.15	0.00	2	2	G
A' (4'-26)	2	2.12	1.97	0.00	0.15	2	2	G
A' (26-5')	2	2.12	1.97	0.15	0.00	2	2	G
A' (5'-27)	2	2.12	1.97	0.00	0.15	2	2	G
A' (27-6')	2	2.12	1.97	0.15	0.00	2	2	G
A' (6'-30)	2	2.12	1.97	0.00	0.15	2	2	G
A' (30-7')	2	2.30	2.15	0.15	0.00	2	2	G
A' (7'-31)	2	2.30	2.15	0.00	0.15	2	2	G
A' (31-8')	2	2.50	2.35	0.15	0.00	2	2	G
A' (8'-32)	2	2.50	2.35	0.00	0.15	2	2	G
A' (32-9')	2	2.96	2.81	0.15	0.00	2	2	G
A' (9'-34)	2	2.96	2.81	0.00	0.15	2	2	G
A' (34-10')	2	2.03	1.88	0.15	0.00	2	2	G
K (1'-20)	2	0.60	0.40	0.00	0.20	1	2	G&L
K (20-2')	2	2.12	1.92	0.20	0.00	1	2	G&L
K (2'-22)	2	2.12	1.92	0.00	0.20	1	2	G&L
K (22-3')	2	2.12	1.92	0.20	0.00	1	2	G&L
K (3'-23)	2	2.12	1.92	0.00	0.20	1	2	G&L
K (23-4')	2	2.12	1.92	0.20	0.00	1	2	G&L
K (4'-26)	2	2.12	1.92	0.00	0.20	1	2	G&L
K (26-5')	2	2.12	1.92	0.20	0.00	1	2	G&L

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
K(5'-27')	2	2.12	1.92	0.00	0.20	1	2	G&L
K(27-6')	2	2.12	1.92	0.20	0.00	1	2	G&L
K(6'-30')	2	2.12	1.92	0.00	0.20	1	2	G&L
K(30-7')	2	2.30	2.10	0.20	0.00	1	2	G&L
K(7'-31)	2	2.30	2.10	0.00	0.20	1	2	G&L
K(31-8')	2	2.50	2.30	0.20	0.00	1	2	G&L
K(8'-32)	2	2.50	2.30	0.00	0.20	1	2	G&L
K(32-9')	2	2.96	2.76	0.20	0.00	1	2	G&L
K(9'-34)	2	2.96	2.76	0.00	0.20	1	2	G&L
K(34-10')	2	2.03	1.83	0.20	0.00	1	2	G&L
B'(32-9')	2	2.96	2.81	0.15	0.00	2	2	G
B'(9'-34)	2	2.96	2.81	0.00	0.15	2	2	G
B'(34-10')	2	2.03	1.88	0.15	0.00	2	2	G
J(32-9')	2	2.96	2.76	0.20	0.00	1	2	G&L
J(9'-33)	2	1.42	1.22	0.00	0.20	1	2	G&L
J(33-34)	2	1.54	1.14	0.20	0.20	1	2	G&L
J(34-10')	2	2.03	1.83	0.20	0.00	1	2	G&L
C'(33-34)	2	1.54	1.24	0.15	0.15	2	2	G
C'(34-10')	2	2.03	1.88	0.15	0.00	2	2	G
D'(33-34)	2	1.54	1.24	0.15	0.15	2	2	G
D'(34-10')	2	2.03	1.88	0.15	0.00	2	2	G
E'(33-34)	2	1.54	1.24	0.15	0.15	2	2	G
E'(34-10')	2	2.03	1.88	0.15	0.00	2	2	G
H(33-34)	2	1.54	1.14	0.20	0.20	1	2	G&L
H(34-10')	2	2.03	1.83	0.20	0.00	1	2	G&L
F'(33-34)	2	1.54	1.24	0.15	0.15	2	2	G
F'(34-10')	2	2.03	1.88	0.15	0.00	2	2	G
20 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
22 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
23 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
26 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
27 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
30 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
31 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
32 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
32 (K-J)	1	3.90	3.60	0.15	0.15	3	2	G&L
33 (J-H)	1	8.64	8.34	0.15	0.15	3	2	G&L
34 (LI-K)	1	4.36	4.06	0.15	0.15	3	2	G&L
34 (K-J)	1	3.90	3.60	0.15	0.15	3	2	G&L
34 (J-H)	1	8.64	8.34	0.15	0.15	3	2	G&L
1' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
1' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
20 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
20 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
2' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
2' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
22 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
22 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
3' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
3' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
23 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
23 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
4' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
4' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
26 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
26 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
5' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
5' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
27 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
27 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
6' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
6' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
30 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
30 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
7' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
7' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
31 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
31 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
8' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
8' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
32 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
32 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
32 (K-B')	2	1.95	1.80	0.15	0.00	1	2	G&L
32 (B'-J)	2	1.95	1.80	0.00	0.15	1	2	G&L
9' (LI-A')	2	2.18	2.03	0.15	0.00	2	2	G
9' (A'-K)	2	2.18	2.03	0.00	0.15	2	2	G
9' (K-B')	2	1.95	1.80	0.15	0.00	2	2	G
9' (B'-J)	2	1.95	1.80	0.00	0.15	2	2	G

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Beam	Floor	L	Lu	a	c	Sec	Mat	System
33 (J-C')	2	2.16	2.01	0.15	0.00	1	2	G&L
33 (C'-D')	2	2.16	2.16	0.00	0.00	1	2	G&L
33 (D'-E')	2	2.16	2.16	0.00	0.00	1	2	G&L
33 (E'-H)	2	2.16	2.01	0.00	0.15	1	2	G&L
33 (H-F')	2	0.81	0.66	0.15	0.00	1	2	G&L
34 (LI-A')	2	2.18	2.03	0.15	0.00	1	2	G&L
34 (A'-K)	2	2.18	2.03	0.00	0.15	1	2	G&L
34 (K-B')	2	1.95	1.80	0.15	0.00	1	2	G&L
34 (B'-J)	2	1.95	1.80	0.00	0.15	1	2	G&L
34 (J-C')	2	2.16	2.01	0.15	0.00	1	2	G&L
34 (C'-D')	2	2.16	2.16	0.00	0.00	1	2	G&L
34 (D'-E')	2	2.16	2.16	0.00	0.00	1	2	G&L
34 (E'-H)	2	2.16	2.01	0.00	0.15	1	2	G&L
34 (H-F')	2	0.81	0.66	0.15	0.00	1	2	G&L
10' (LI-A')								
10' (A'-K)	2	2.18	2.03	0.15	0.00	2	2	G
10' (K-B')	2	1.95	1.80	0.15	0.00	2	2	G
10' (B'-J)	2	1.95	1.80	0.00	0.15	2	2	G
10' (J-C')	2	2.16	2.01	0.15	0.00	2	2	G
10' (C'-D')								
10' (D'-E')	2	2.16	2.16	0.00	0.00	2	2	G
	2	2.16	2.16	0.00	0.00	2	2	G
10' (E'-H)	2	2.16	2.01	0.00	0.15	2	2	G
10' (H-F')	2	0.81	0.66	0.15	0.00	2	2	G

FOUNDATION SOIL PROPERTIES

Number of soil properties = 1

Soil	Name	Pressure Distribution	Allowable gross pres. Pa T/m2	Increase Pa Combinations incl.EQ & WL (%)	MODULUS OF SUBGRADE REACTION Gravity load Analysis, Kg T/m3	Lateral load Analysis, Ks T/m3
1	Soil1	Linear	7.4	33	400.0	400.0

* Values of subgrade reaction are used only on footings with rotations and/or vert-displac. permitted.

FOUNDATION BEAM DATA

Number of foundation beams = 32

FOUNDATION BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	TWidth (m)	Sec -	Mat -	Soil -	System -
LI (20-22)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
LI (22-23)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
LI (23-26)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
LI (26-27)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
LI (27-30)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
LI (30-31)	1	4.60	4.20	0.20	0.20	1.00	3	2	1	G&L
LI (31-32)	1	5.00	4.60	0.20	0.20	1.00	3	2	1	G&L
LI (32-34)	1	5.92	5.52	0.20	0.20	1.00	3	2	1	G&L
K (20-22)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
K (22-23)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
K (23-26)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
K (26-27)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
K (27-30)	1	4.24	3.84	0.20	0.20	1.00	3	2	1	G&L
K (30-31)	1	4.60	4.20	0.20	0.20	1.00	3	2	1	G&L
K (31-32)	1	5.00	4.60	0.20	0.20	1.00	3	2	1	G&L
K (32-34)	1	5.92	5.52	0.20	0.20	1.00	3	2	1	G&L
J (32-33)	1	4.38	3.98	0.20	0.20	1.00	3	2	1	G&L
J (33-34)	1	1.54	1.14	0.20	0.20	1.00	3	2	1	G&L
H (33-34)	1	1.54	1.14	0.20	0.20	1.00	3	2	1	G&L
20 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
22 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
23 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
26 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
27 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
30 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
31 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
32 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L

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Beam	Floor	L	Lu	a	c	TWidth	Sec	Mat	Soil	System
32 (K-J)	1	3.90	3.60	0.15	0.15	1.00	3	2	1	G&L
33 (J-H)	1	8.64	8.34	0.15	0.15	1.00	3	2	1	G&L
34 (LI-K)	1	4.36	4.06	0.15	0.15	1.00	3	2	1	G&L
34 (K-J)	1	3.90	3.60	0.15	0.15	1.00	3	2	1	G&L
34 (J-H)	1	8.64	8.34	0.15	0.15	1.00	3	2	1	G&L

GROUND SUPPORT DATA

Total number of ground supports = 23

K = Spring constant(ton/cm)

Characteristics for All Degrees of Freedom
Value = K Dash = free C = constrained

Support	Floor	Type	Ux	Uy	Uz	TetX	TetY	TetZ
LI-20	1	Fixed	C	C	C	C	C	C
K-20	1	Fixed	C	C	C	C	C	C
LI-22	1	Fixed	C	C	C	C	C	C
K-22	1	Fixed	C	C	C	C	C	C
LI-23	1	Fixed	C	C	C	C	C	C
K-23	1	Fixed	C	C	C	C	C	C
LI-26	1	Fixed	C	C	C	C	C	C
K-26	1	Fixed	C	C	C	C	C	C
LI-27	1	Fixed	C	C	C	C	C	C
K-27	1	Fixed	C	C	C	C	C	C
LI-30	1	Fixed	C	C	C	C	C	C
K-30	1	Fixed	C	C	C	C	C	C
LI-31	1	Fixed	C	C	C	C	C	C
K-31	1	Fixed	C	C	C	C	C	C
LI-32	1	Fixed	C	C	C	C	C	C
K-32	1	Fixed	C	C	C	C	C	C
J-32	1	Fixed	C	C	C	C	C	C
J-33	1	Fixed	C	C	C	C	C	C
H-33	1	Fixed	C	C	C	C	C	C
LI-34	1	Fixed	C	C	C	C	C	C
K-34	1	Fixed	C	C	C	C	C	C
J-34	1	Fixed	C	C	C	C	C	C
H-34	1	Fixed	C	C	C	C	C	C

SUMMARY OF TOTAL FLOOR LOADS

LOAD CASE 1 : SELFW (D0)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	126.24	0.0	0.0	0.0
1	0.00	0.00	31.37	0.0	0.0	0.0
Total	0.00	0.00	157.60	0.0	0.0	0.0

LOAD CASE 2 : DEAD (DL)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	118.15	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	118.15	0.0	0.0	0.0

LOAD CASE 3 : ROOF L (RFL)

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Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	0.00	0.00	47.26	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	47.26	0.0	0.0	0.0

LOAD CASE 4 : EQUAKE X (EQX) - TYPE : SPECTRAL

Floor	Force (ton)			Acc. Tors. Mom. (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	175.54	0.00	0.00	0.0	0.0	156.9
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	175.54	0.00	0.00	0.0	0.0	156.9

LOAD CASE 5 : EQUAKE Y (EQY) - TYPE : SPECTRAL

Floor	Force (ton)			Acc. Tors. Mom. (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	0.00	169.78	0.00	0.0	0.0	334.7
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	169.78	0.00	0.0	0.0	334.7

LOAD CASE 6 : WIND X (WLX)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	1.88	0.00	0.00	0.0	0.0	1.8
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	1.88	0.00	0.00	0.0	0.0	1.8

LOAD CASE 7 : WIND Y (WLY)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
2	0.00	4.85	0.00	0.0	0.0	10.0
1	0.00	0.19	0.00	0.0	0.0	0.0
Total	0.00	5.03	0.00	0.0	0.0	10.0

SUMMARY QUANTITY OF MATERIALS**COLUMNS**

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	C-30X40	RConcrete2	69.58	0.288	20.04
TOTAL =					20.04

BEAMS

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	VG-30X60	RConcrete2	149.66	0.432	64.65

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2	VG-20X60	RConcrete2	117.93	0.288	33.96
TOTAL =					98.62

FOUNDATION BEAMS

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	VC-30X45	RConcrete2	139.47	0.324	45.19
TOTAL =					45.19

SLABS

Item	Section	Material	Area m²	Weight/Area ton/m²	Total Weight ton
1	Cubierta Plana	w =2.4	236.31	0.300	70.89
TOTAL =					70.89