

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)
File: C:\IE REGIDOR\MOD6.rcb

Engineer: Name
9:43:14 a. m. 27/06/2025

GENERAL INPUT DATA

Structure type: Three-Dimensional Frame Structure
Number of Floor Grids = 1
Building total length = 24.54 m
Building total width = 21.73 m

STORY INFORMATION

Number of Stories = 2
Total Frame Height = 6.2 m

Floor	Story Height	Grid No
1	4.00	1
2	2.20	1
3	-	1

* Story Height in (m)

STRUCTURAL GRID INFORMATION

GRID No 1

Grid Point	X	Y
G-1	0.00	0.00
E-1	0.00	2.70
G'-1	0.00	5.15
F'-1	0.00	7.60
E'-1	0.00	10.05
D-1	0.00	11.20
D'-1	0.00	13.32
C'-1	0.00	15.44
B'-1	0.00	17.56
B-1	0.00	19.68
A'-1	0.00	21.73
G-1'	2.25	0.00
E-1'	2.25	2.70
G'-1'	2.25	5.15
F'-1'	2.25	7.60
E'-1'	2.25	10.05
D-1'	2.25	11.20
D'-1'	2.25	13.32
C'-1'	2.25	15.44
B'-1'	2.25	17.56
B-1'	2.25	19.68
A'-1'	2.25	21.73
G-2'	4.10	0.00
E-2'	4.10	2.70
G'-2'	4.10	5.15
F'-2'	4.10	7.60
E'-2'	4.10	10.05
D-2'	4.10	11.20
D'-2'	4.10	13.32
C'-2'	4.10	15.44
B'-2'	4.10	17.56
B-2'	4.10	19.68
A'-2'	4.10	21.73
G-3'	6.90	0.00
E-3'	6.90	2.70
G'-3'	6.90	5.15
F'-3'	6.90	7.60
E'-3'	6.90	10.05
D-3'	6.90	11.20
D'-3'	6.90	13.32
C'-3'	6.90	15.44
B'-3'	6.90	17.56
B-3'	6.90	19.68
A'-3'	6.90	21.73
G-2	9.00	0.00
E-2	9.00	2.70
G'-2	9.00	5.15
F'-2	9.00	7.60
E'-2	9.00	10.05
D-2	9.00	11.20
D'-2	9.00	13.32
C'-2	9.00	15.44
B'-2	9.00	17.56
B-2	9.00	19.68
A'-2	9.00	21.73
G-4'	9.57	0.00

Company: Company

Engineer: Name

Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

9:43:14 a. m. 27/06/2025

Grid Point	X	Y
E-4'	9.57	2.70
G'-4'	9.57	5.15
F'-4'	9.57	7.60
E'-4'	9.57	10.05
D-4'	9.57	11.20
D'-4'	9.57	13.32
C'-4'	9.57	15.44
B'-4'	9.57	17.56
B-4'	9.57	19.68
A'-4'	9.57	21.73
G-5'	10.57	0.00
E-5'	10.57	2.70
G'-5'	10.57	5.15
F'-5'	10.57	7.60
E'-5'	10.57	10.05
D-5'	10.57	11.20
D'-5'	10.57	13.32
C'-5'	10.57	15.44
B'-5'	10.57	17.56
B-5'	10.57	19.68
A'-5'	10.57	21.73
G-3	12.14	0.00
E-3	12.14	2.70
G'-3	12.14	5.15
F'-3	12.14	7.60
E'-3	12.14	10.05
D-3	12.14	11.20
D'-3	12.14	13.32
C'-3	12.14	15.44
B'-3	12.14	17.56
B-3	12.14	19.68
A'-3	12.14	21.73
G-6'	14.25	0.00
E-6'	14.25	2.70
G'-6'	14.25	5.15
F'-6'	14.25	7.60
E'-6'	14.25	10.05
D-6'	14.25	11.20
D'-6'	14.25	13.32
C'-6'	14.25	15.44
B'-6'	14.25	17.56
B-6'	14.25	19.68
A'-6'	14.25	21.73
G-7'	16.36	0.00
E-7'	16.36	2.70
G'-7'	16.36	5.15
F'-7'	16.36	7.60
E'-7'	16.36	10.05
D-7'	16.36	11.20
D'-7'	16.36	13.32
C'-7'	16.36	15.44
B'-7'	16.36	17.56
B-7'	16.36	19.68
A'-7'	16.36	21.73
G-8'	18.47	0.00
E-8'	18.47	2.70
G'-8'	18.47	5.15
F'-8'	18.47	7.60
E'-8'	18.47	10.05
D-8'	18.47	11.20
D'-8'	18.47	13.32
C'-8'	18.47	15.44
B'-8'	18.47	17.56
B-8'	18.47	19.68
A'-8'	18.47	21.73
G-9'	20.58	0.00
E-9'	20.58	2.70
G'-9'	20.58	5.15
F'-9'	20.58	7.60
E'-9'	20.58	10.05
D-9'	20.58	11.20
D'-9'	20.58	13.32
C'-9'	20.58	15.44
B'-9'	20.58	17.56
B-9'	20.58	19.68
A'-9'	20.58	21.73
G-10'	22.07	0.00
E-10'	22.07	2.70
G'-10'	22.07	5.15
F'-10'	22.07	7.60
E'-10'	22.07	10.05
D-10'	22.07	11.20
D'-10'	22.07	13.32
C'-10'	22.07	15.44
B'-10'	22.07	17.56

Company: Company

Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

Engineer: Name

9:43:14 a. m. 27/06/2025

Grid Point	X	Y
B-10'	22.07	19.68
A'-10'	22.07	21.73
G-5	22.69	0.00
E-5	22.69	2.70
G'-5	22.69	5.15
F'-5	22.69	7.60
E'-5	22.69	10.05
D-5	22.69	11.20
D'-5	22.69	13.32
C'-5	22.69	15.44
B'-5	22.69	17.56
B-5	22.69	19.68
A'-5	22.69	21.73
G-11'	24.54	0.00
E-11'	24.54	2.70
G'-11'	24.54	5.15
F'-11'	24.54	7.60
E'-11'	24.54	10.05
D-11'	24.54	11.20
D'-11'	24.54	13.32
C'-11'	24.54	15.44
B'-11'	24.54	17.56
B-11'	24.54	19.68
A'-11'	24.54	21.73

* Coordinates X & Y are in (m)

MATERIALS

Number of materials = 3

STRUCTURAL STEEL

Mat	Name	Fy Kg/cm2	Fbmaj Kg/cm2	Fbmin Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
3	ASTM A50	3500	2310	2310	2030000	805000	7840.0

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: Yield strength of shear reinforcement, bar sizes <= 3/8"

fys2: Yield strength of shear reinforcement, bar sizes > 3/8"

MEMBER DATA

Total number of members..... = 183

Number of columns..... = 23

Number of beams = 180

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-40X60	Rectang	40.00	60.00	-	-	-	-	2400.0	720000	320000	742400

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

Engineer: Name
9:43:14 a. m. 27/06/2025

COLUMNS

Column	Story	L (m)	Lu (m)	a (m)	c (m)	Theta (o)	Sec -	Mat -	System -
B-5	2	2.20	1.63	0.08	0.50	0.0	1	2	G&L
B-5	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
D-5	2	2.20	1.62	0.08	0.51	0.0	1	2	G&L
D-5	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
E-5	2	2.20	1.62	0.08	0.51	0.0	1	2	G&L
E-5	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
G-5	2	2.20	1.63	0.08	0.50	0.0	1	2	G&L
G-5	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
B-3	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
E-3	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
G-3	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
B-2	2	2.20	1.63	0.08	0.50	0.0	1	2	G&L
B-2	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
D-2	2	2.20	1.62	0.08	0.51	0.0	1	2	G&L
D-2	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
E-2	2	2.20	1.62	0.08	0.51	0.0	1	2	G&L
E-2	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
G-2	2	2.20	1.63	0.08	0.50	0.0	1	2	G&L
G-2	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
E-2'	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
G-2'	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
B-1	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L
D-1	1	4.00	3.48	0.00	0.53	0.0	1	2	G&L

BEAM SECTIONS

Number of prismatic sections = 5

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
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
4	IPE-220	I	11.00	22.00	0.59	0.92	0.00	-	32.1	2653	204	7
5	IPE-550	I	21.00	55.00	1.11	1.72	0.00	-	129.5	63965	2661	95

BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	Sec -	Mat -	System -
G(2'-2)	1	4.90	4.50	0.20	0.20	3	2	G&L
G(2-3)	1	3.14	2.74	0.20	0.20	3	2	G&L
G(3-5)	1	10.55	10.15	0.20	0.20	3	2	G&L
E(2'-2)	1	4.90	4.50	0.20	0.20	3	2	G&L
E(2-3)	1	3.14	2.74	0.20	0.20	3	2	G&L
E(3-5)	1	10.55	10.15	0.20	0.20	3	2	G&L
D(1-2)	1	9.00	8.60	0.20	0.20	3	2	G&L
D(2-5)	1	13.69	13.29	0.20	0.20	3	2	G&L
B(1-2)	1	9.00	8.60	0.20	0.20	3	2	G&L
B(2-3)	1	3.14	2.74	0.20	0.20	3	2	G&L
B(3-5)	1	10.55	10.15	0.20	0.20	3	2	G&L
G(2'-3')	2	2.80	2.60	0.20	0.00	1	2	G&L
G(3'-2)	2	2.10	1.90	0.00	0.20	1	2	G&L
G(2-4')	2	0.57	0.37	0.20	0.00	1	2	G&L
G(4'-5')	2	1.00	1.00	0.00	0.00	1	2	G&L
G(5'-3)	2	1.57	1.37	0.00	0.20	1	2	G&L
G(3-6')	2	2.11	1.91	0.20	0.00	1	2	G&L

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9:43:14 a. m. 27/06/2025

Beam	Floor	L	Lu	a	c	Sec	Mat	System
G(6'-7')	2	2.11	2.11	0.00	0.00	1	2	G&L
G(7'-8')	2	2.11	2.11	0.00	0.00	1	2	G&L
G(8'-9')	2	2.11	2.11	0.00	0.00	1	2	G&L
G(9'-10')	2	1.49	1.49	0.00	0.00	1	2	G&L
G(10'-5)	2	0.62	0.42	0.00	0.20	1	2	G&L
G(5-11')	2	1.85	1.65	0.20	0.00	1	2	G&L
E(2'-3')	2	2.80	2.60	0.20	0.00	1	2	G&L
E(3'-2)	2	2.10	1.90	0.00	0.20	1	2	G&L
E(2-4')	2	0.57	0.37	0.20	0.00	1	2	G&L
E(4'-5')	2	1.00	1.00	0.00	0.00	1	2	G&L
E(5'-3)	2	1.57	1.37	0.00	0.20	1	2	G&L
E(5-11')	2	1.85	1.65	0.20	0.00	1	2	G&L
G'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
G'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
F'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
F'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
E'(1-1')	2	2.25	2.10	0.15	0.00	2	2	G
E'(1'-2')	2	1.85	1.85	0.00	0.00	2	2	G
E'(2'-3')	2	2.80	2.80	0.00	0.00	2	2	G
E'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
E'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
D(1-1')	2	2.25	2.05	0.20	0.00	1	2	G&L
D(1'-2')	2	1.85	1.85	0.00	0.00	1	2	G&L
D(2'-3')	2	2.80	2.80	0.00	0.00	1	2	G&L
D(3'-2)	2	2.10	1.90	0.00	0.20	1	2	G&L
D(5-11')	2	1.85	1.65	0.20	0.00	1	2	G&L
D'(1-1')	2	2.25	2.10	0.15	0.00	2	2	G
D'(1'-2')	2	1.85	1.85	0.00	0.00	2	2	G
D'(2'-3')	2	2.80	2.80	0.00	0.00	2	2	G
D'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
D'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
C'(1-1')	2	2.25	2.10	0.15	0.00	2	2	G
C'(1'-2')	2	1.85	1.85	0.00	0.00	2	2	G
C'(2'-3')	2	2.80	2.80	0.00	0.00	2	2	G
C'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
C'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
B'(1-1')	2	2.25	2.10	0.15	0.00	2	2	G
B'(1'-2')	2	1.85	1.85	0.00	0.00	2	2	G
B'(2'-3')	2	2.80	2.80	0.00	0.00	2	2	G
B'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
B'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
B(1-1')	2	2.25	2.05	0.20	0.00	1	2	G&L
B(1'-2')	2	1.85	1.85	0.00	0.00	1	2	G&L
B(2'-3')	2	2.80	2.80	0.00	0.00	1	2	G&L
B(3'-2)	2	2.10	1.90	0.00	0.20	1	2	G&L
B(2-4')	2	0.57	0.37	0.20	0.00	1	2	G&L
B(4'-5')	2	1.00	1.00	0.00	0.00	1	2	G&L
B(5'-3)	2	1.57	1.37	0.00	0.20	1	2	G&L
B(3-6')	2	2.11	1.91	0.20	0.00	1	2	G&L
B(6'-7')	2	2.11	2.11	0.00	0.00	1	2	G&L
B(7'-8')	2	2.11	2.11	0.00	0.00	1	2	G&L
B(8'-9')	2	2.11	2.11	0.00	0.00	1	2	G&L
B(9'-10')	2	1.49	1.49	0.00	0.00	1	2	G&L
B(10'-5)	2	0.62	0.42	0.00	0.20	1	2	G&L
B(5-11')	2	1.85	1.65	0.20	0.00	1	2	G&L
A'(1-1')	2	2.25	2.10	0.15	0.00	2	2	G
A'(1'-2')	2	1.85	1.85	0.00	0.00	2	2	G
A'(2'-3')	2	2.80	2.80	0.00	0.00	2	2	G
A'(3'-2)	2	2.10	1.95	0.00	0.15	2	2	G
A'(2-4')	2	0.57	0.42	0.15	0.00	2	2	G
A'(4'-5')	2	1.00	1.00	0.00	0.00	2	2	G
A'(5'-3)	2	1.57	1.42	0.00	0.15	2	2	G
A'(3-6')	2	2.11	1.96	0.15	0.00	2	2	G
A'(6'-7')	2	2.11	2.11	0.00	0.00	2	2	G
A'(7'-8')	2	2.11	2.11	0.00	0.00	2	2	G
A'(8'-9')	2	2.11	2.11	0.00	0.00	2	2	G
A'(9'-10')								
	2	1.49	1.49	0.00	0.00	2	2	G
A'(10'-5)	2	0.62	0.47	0.00	0.15	2	2	G
A'(5-11')	2	1.85	1.70	0.15	0.00	2	2	G
G(2-4')	3	0.57	0.37	0.20	0.00	5	3	G&L
G(4'-10')	3	12.50	12.50	0.00	0.00	5	3	G&L
G(10'-5)	3	0.62	0.42	0.00	0.20	5	3	G&L
E(2-4')	3	0.57	0.37	0.20	0.00	5	3	G&L
E(4'-10')	3	12.50	12.50	0.00	0.00	5	3	G&L
E(10'-5)	3	0.62	0.42	0.00	0.20	5	3	G&L
D(2-4')	3	0.57	0.37	0.20	0.00	5	3	G&L
D(4'-10')	3	12.50	12.50	0.00	0.00	5	3	G&L
D(10'-5)	3	0.62	0.42	0.00	0.20	5	3	G&L
B(2-4')	3	0.57	0.37	0.20	0.00	5	3	G&L
B(4'-10')	3	12.50	12.50	0.00	0.00	5	3	G&L
B(10'-5)	3	0.62	0.42	0.00	0.20	5	3	G&L
1(D-B)	1	8.48	7.88	0.30	0.30	3	2	G&L

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9:43:14 a. m. 27/06/2025

Beam	Floor	L	Lu	a	c	Sec	Mat	System
2 (G-E)	1	2.70	2.10	0.30	0.30	3	2	G&L
2 (G-E)	1	2.70	2.10	0.30	0.30	3	2	G&L
2 (E-D)	1	8.50	7.90	0.30	0.30	3	2	G&L
2 (D-B)	1	8.48	7.88	0.30	0.30	3	2	G&L
3 (G-E)	1	2.70	2.10	0.30	0.30	3	2	G&L
5 (G-E)	1	2.70	2.10	0.30	0.30	3	2	G&L
5 (E-D)	1	8.50	7.90	0.30	0.30	3	2	G&L
5 (D-B)	1	8.48	7.88	0.30	0.30	3	2	G&L
1 (E'-D)	2	1.15	0.85	0.00	0.30	1	2	G&L
1 (D-D')	2	2.12	1.82	0.30	0.00	1	2	G&L
1 (D'-C')	2	2.12	2.12	0.00	0.00	1	2	G&L
1 (C'-B')	2	2.12	2.12	0.00	0.00	1	2	G&L
1 (B'-B)	2	2.12	1.82	0.00	0.30	1	2	G&L
1 (B-A')	2	2.05	1.75	0.30	0.00	1	2	G&L
1' (E'-D)	2	1.15	1.00	0.00	0.15	2	2	G
1' (D-D')	2	2.12	1.97	0.15	0.00	2	2	G
1' (D'-C')	2	2.12	2.12	0.00	0.00	2	2	G
1' (C'-B')	2	2.12	2.12	0.00	0.00	2	2	G
1' (B'-B)	2	2.12	1.97	0.00	0.15	2	2	G
1' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
2' (G-E)	2	2.70	2.10	0.30	0.30	1	2	G&L
2' (E'-D)	2	1.15	1.00	0.00	0.15	2	2	G
2' (D-D')	2	2.12	1.97	0.15	0.00	2	2	G
2' (D'-C')	2	2.12	2.12	0.00	0.00	2	2	G
2' (C'-B')	2	2.12	2.12	0.00	0.00	2	2	G
2' (B'-B)	2	2.12	1.97	0.00	0.15	2	2	G
2' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
3' (G-E)	2	2.70	2.40	0.15	0.15	2	2	G
3' (E-G')	2	2.45	2.30	0.15	0.00	2	2	G
3' (G'-F')	2	2.45	2.45	0.00	0.00	2	2	G
3' (F'-E')	2	2.45	2.45	0.00	0.00	2	2	G
3' (E'-D)	2	1.15	1.00	0.00	0.15	2	2	G
3' (D-D')	2	2.12	1.97	0.15	0.00	2	2	G
3' (D'-C')	2	2.12	2.12	0.00	0.00	2	2	G
3' (C'-B')	2	2.12	2.12	0.00	0.00	2	2	G
3' (B'-B)	2	2.12	1.97	0.00	0.15	2	2	G
3' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
2 (G-E)	2	2.70	2.10	0.30	0.30	1	2	G&L
2 (E-G')	2	2.45	2.15	0.30	0.00	1	2	G&L
2 (G'-F')	2	2.45	2.45	0.00	0.00	1	2	G&L
2 (F'-E')	2	2.45	2.45	0.00	0.00	1	2	G&L
2 (E'-D)	2	1.15	0.85	0.00	0.30	1	2	G&L
2 (D-D')	2	2.12	1.82	0.30	0.00	1	2	G&L
2 (D'-C')	2	2.12	2.12	0.00	0.00	1	2	G&L
2 (C'-B')	2	2.12	2.12	0.00	0.00	1	2	G&L
2 (B'-B)	2	2.12	1.82	0.00	0.30	1	2	G&L
2 (B-A')	2	2.05	1.75	0.30	0.00	1	2	G&L
5' (G-E)	2	2.70	2.40	0.15	0.15	2	2	G
5' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
3 (G-E)	2	2.70	2.10	0.30	0.30	1	2	G&L
3 (B-A')	2	2.05	1.75	0.30	0.00	1	2	G&L
6' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
7' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
8' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
9' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
5 (G-E)	2	2.70	2.10	0.30	0.30	1	2	G&L
5 (E-G')	2	2.45	2.15	0.30	0.00	1	2	G&L
5 (G'-F')	2	2.45	2.45	0.00	0.00	1	2	G&L
5 (F'-E')	2	2.45	2.45	0.00	0.00	1	2	G&L
5 (E'-D)	2	1.15	0.85	0.00	0.30	1	2	G&L
5 (D-D')	2	2.12	1.82	0.30	0.00	1	2	G&L
5 (D'-C')	2	2.12	2.12	0.00	0.00	1	2	G&L
5 (C'-B')	2	2.12	2.12	0.00	0.00	1	2	G&L
5 (B'-B)	2	2.12	1.82	0.00	0.30	1	2	G&L
5 (B-A')	2	2.05	1.75	0.30	0.00	1	2	G&L
11' (G-E)	2	2.70	2.40	0.15	0.15	2	2	G
11' (E-G')	2	2.45	2.30	0.15	0.00	2	2	G
11' (G'-F')	2	2.45	2.45	0.00	0.00	2	2	G
11' (F'-E')	2	2.45	2.45	0.00	0.00	2	2	G
11' (E'-D)	2	1.15	1.00	0.00	0.15	2	2	G
11' (D-D')	2	2.12	1.97	0.15	0.00	2	2	G
11' (D'-C')	2	2.12	2.12	0.00	0.00	2	2	G
11' (C'-B')	2	2.12	2.12	0.00	0.00	2	2	G
11' (B'-B)	2	2.12	1.97	0.00	0.15	2	2	G
11' (B-A')	2	2.05	1.90	0.15	0.00	2	2	G
2 (G-E)	3	2.70	2.10	0.30	0.30	1	2	G&L
2 (E-D)	3	8.50	7.90	0.30	0.30	1	2	G&L
2 (D-B)	3	8.48	7.88	0.30	0.30	1	2	G&L
5 (G-E)	3	2.70	2.10	0.30	0.30	1	2	G&L

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

Engineer: Name
9:43:14 a. m. 27/06/2025

Beam	Floor	L	Lu	a	c	Sec	Mat	System
5 (E-D)	3	8.50	7.90	0.30	0.30	1	2	G&L
5 (D-B)	3	8.48	7.88	0.30	0.30	1	2	G&L

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 = 20

FOUNDATION BEAMS

Beam	Floor	L (m)	Lu (m)	a (m)	c (m)	TWidth (m)	Sec -	Mat -	Soil -	System -
G (2'-2)	1	4.90	4.50	0.20	0.20	1.00	3	2	1	G&L
G (2-3)	1	3.14	2.74	0.20	0.20	1.00	3	2	1	G&L
G (3-5)	1	10.55	10.15	0.20	0.20	1.00	3	2	1	G&L
E (2'-2)	1	4.90	4.50	0.20	0.20	1.00	3	2	1	G&L
E (2-3)	1	3.14	2.74	0.20	0.20	1.00	3	2	1	G&L
E (3-5)	1	10.55	10.15	0.20	0.20	1.00	3	2	1	G&L
D (1-2)	1	9.00	8.60	0.20	0.20	1.00	3	2	1	G&L
D (2-5)	1	13.69	13.29	0.20	0.20	1.00	3	2	1	G&L
B (1-2)	1	9.00	8.60	0.20	0.20	1.00	3	2	1	G&L
B (2-3)	1	3.14	2.74	0.20	0.20	1.00	3	2	1	G&L
B (3-5)	1	10.55	10.15	0.20	0.20	1.00	3	2	1	G&L
1 (D-B)	1	8.48	7.88	0.30	0.30	1.00	3	2	1	G&L
2' (G-E)	1	2.70	2.10	0.30	0.30	1.00	3	2	1	G&L
2 (G-E)	1	2.70	2.10	0.30	0.30	1.00	3	2	1	G&L
2 (E-D)	1	8.50	7.90	0.30	0.30	1.00	3	2	1	G&L
2 (D-B)	1	8.48	7.88	0.30	0.30	1.00	3	2	1	G&L
3 (G-E)	1	2.70	2.10	0.30	0.30	1.00	3	2	1	G&L
5 (G-E)	1	2.70	2.10	0.30	0.30	1.00	3	2	1	G&L
5 (E-D)	1	8.50	7.90	0.30	0.30	1.00	3	2	1	G&L
5 (D-B)	1	8.48	7.88	0.30	0.30	1.00	3	2	1	G&L

GROUND SUPPORT DATA

Total number of ground supports = 15

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
D-1	1	Fixed	C	C	C	C	C	C
B-1	1	Fixed	C	C	C	C	C	C
G-2'	1	Fixed	C	C	C	C	C	C
E-2'	1	Fixed	C	C	C	C	C	C
G-2	1	Fixed	C	C	C	C	C	C
E-2	1	Fixed	C	C	C	C	C	C
D-2	1	Fixed	C	C	C	C	C	C
B-2	1	Fixed	C	C	C	C	C	C
G-3	1	Fixed	C	C	C	C	C	C
E-3	1	Fixed	C	C	C	C	C	C
B-3	1	Fixed	C	C	C	C	C	C
G-5	1	Fixed	C	C	C	C	C	C
E-5	1	Fixed	C	C	C	C	C	C
D-5	1	Fixed	C	C	C	C	C	C
B-5	1	Fixed	C	C	C	C	C	C

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

Engineer: Name
9:43:15 a. m. 27/06/2025

Support	Floor	Type	Ux	Uy	Uz	TetX	TetY	TetZ
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SUMMARY OF TOTAL FLOOR LOADS

LOAD CASE 1 : SELFW (D0)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	0.00	30.03	0.0	0.0	0.0
2	0.00	0.00	136.18	0.0	0.0	0.0
1	0.00	0.00	52.15	0.0	0.0	0.0
Total	0.00	0.00	218.36	0.0	0.0	0.0

LOAD CASE 2 : DEAD (DL)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	0.00	42.22	0.0	0.0	0.0
2	0.00	0.00	105.26	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	147.48	0.0	0.0	0.0

LOAD CASE 3 : LIVE (LL)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	0.00	0.00	0.0	0.0	0.0
2	0.00	0.00	42.11	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	42.11	0.0	0.0	0.0

LOAD CASE 4 : ROOF L (RFL)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	0.00	16.98	0.0	0.0	0.0
2	0.00	0.00	0.00	0.0	0.0	0.0
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	0.00	16.98	0.0	0.0	0.0

LOAD CASE 5 : EQUAKE X (EQX) - TYPE : SPECTRAL

Floor	Force (ton)			Acc. Tors. Mom. (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	71.54	0.00	0.00	0.0	0.0	70.4
2	131.37	0.00	0.00	0.0	0.0	143.2
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	202.91	0.00	0.00	0.0	0.0	213.6

Company: Company
Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

Engineer: Name
9:43:15 a. m. 27/06/2025

LOAD CASE 6 : EQUAKE Y (EQY) - TYPE : SPECTRAL

Floor	Force (ton)			Acc. Tors. Mom. (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	58.17	0.00	0.0	0.0	39.8
2	0.00	144.74	0.00	0.0	0.0	178.5
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	202.91	0.00	0.0	0.0	218.4

LOAD CASE 7 : WIND X (WLX)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	1.60	0.00	0.00	0.0	0.0	1.7
2	4.78	0.00	0.00	0.0	0.0	5.5
1	0.38	0.00	0.00	0.0	0.0	0.0
Total	6.76	0.00	0.00	0.0	0.0	7.1

LOAD CASE 8 : WIND Y (WLY)

Floor	Force (ton)			Moment (ton-m)		
	Px	Py	Pz	Mx	My	Mz
3	0.00	1.13	0.00	0.0	0.0	0.8
2	0.00	5.49	0.00	0.0	0.0	7.1
1	0.00	0.00	0.00	0.0	0.0	0.0
Total	0.00	6.63	0.00	0.0	0.0	7.9

SUMMARY QUANTITY OF MATERIALS

COLUMNS

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	C-40X60	RConcrete2	65.09	0.576	37.49
TOTAL =					37.49

BEAMS

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	VG-30X60	RConcrete2	160.22	0.432	69.22
2	VG-20X60	RConcrete2	151.71	0.288	43.69
3	IPE-550	ASTM A50	53.96	0.102	5.48
TOTAL =					118.39

FOUNDATION BEAMS

Item	Section	Material	Length m	Weight/Len ton/m	Total Weight ton
1	VC-30X45	RConcrete2	130.90	0.324	42.41
TOTAL =					42.41

SLABS

Item	Section	Material	Area m²	Weight/Area ton/m²	Total Weight ton
1	Cubierta Plana w =2.4		233.95	0.300	70.18
2	Cubierta Liviana w =2.4		246.00	0.024	5.90
TOTAL =					76.09

Company: Company

Engineer: Name

Project: IE HECTOR MANUEL VIDES BALLESTEROS (MÓDULO 6)

9:43:15 a. m. 27/06/2025