

Elemento	Pos.	Dím.	No.	Esquema (cm)	Long. (cm)	Total B 500 S, Ys=1.15 (cm)	Total (kg)
Pórtico 1	1	012	2	055	900	900	825
	2	012	2	055	900	900	825
	3	012	2	055	900	900	825
	4	012	2	055	900	900	825
	5	012	2	055	900	900	825
	6	012	2	055	900	900	825
	7	012	2	055	900	900	825
	8	012	1	020	975	975	5.7
	9	012	1	020	975	975	5.7
	10	012	2	055	900	900	825
	11	012	2	055	900	900	825
	12	012	2	055	900	900	825
	13	012	2	055	900	900	825
	14	012	1	020	975	975	5.7
	15	012	1	020	975	975	5.7
Pórtico 2	1	012	2	055	900	900	825
	2	012	2	055	900	900	825
	3	012	2	055	900	900	825
	4	012	2	055	900	900	825
	5	012	2	055	900	900	825
	6	012	2	055	900	900	825
	7	012	2	055	900	900	825
	8	012	1	020	975	975	5.7
	9	012	1	020	975	975	5.7
	10	012	2	055	900	900	825
	11	012	2	055	900	900	825
	12	012	2	055	900	900	825
	13	012	2	055	900	900	825
	14	012	1	020	975	975	5.7
	15	012	1	020	975	975	5.7
Pórtico 3	1	012	2	055	900	900	825
	2	012	2	055	900	900	825
	3	012	2	055	900	900	825
	4	012	2	055	900	900	825
	5	012	2	055	900	900	825
	6	012	2	055	900	900	825
	7	012	2	055	900	900	825
	8	012	1	020	975	975	5.7
	9	012	1	020	975	975	5.7
	10	012	2	055	900	900	825
	11	012	2	055	900	900	825
	12	012	2	055	900	900	825
	13	012	2	055	900	900	825
	14	012	1	020	975	975	5.7
	15	012	1	020	975	975	5.7

Elemento	Pos.	Dím.	No.	Esquema (cm)	Long. (cm)	Total B 500 S, Ys=1.15 (cm)	Total (kg)
Pórtico 16	1	012	2	055	900	900	132
	2	012	2	055	900	900	132
	3	012	2	055	900	900	132
	4	012	2	055	900	900	132
	5	012	2	055	900	900	132
	6	012	2	055	900	900	132
	7	012	2	055	900	900	132
	8	012	2	055	900	900	132
	9	012	2	055	900	900	132
	10	012	2	055	900	900	132
	11	012	2	055	900	900	132
	12	012	2	055	900	900	132
	13	012	2	055	900	900	132
	14	012	2	055	900	900	132
	15	012	2	055	900	900	132
Pórtico 17	1	012	2	055	900	900	232.2
	2	012	2	055	900	900	232.2
	3	012	2	055	900	900	232.2
	4	012	2	055	900	900	232.2
	5	012	2	055	900	900	232.2
	6	012	2	055	900	900	232.2
	7	012	2	055	900	900	232.2
	8	012	2	055	900	900	232.2
	9	012	2	055	900	900	232.2
	10	012	2	055	900	900	232.2
	11	012	2	055	900	900	232.2
	12	012	2	055	900	900	232.2
	13	012	2	055	900	900	232.2
	14	012	2	055	900	900	232.2
	15	012	2	055	900	900	232.2
Pórtico 18	1	012	2	055	900	900	14.9
	2	012	2	055	900	900	14.9
	3	012	2	055	900	900	14.9
	4	012	2	055	900	900	14.9
	5	012	2	055	900	900	14.9
	6	012	2	055	900	900	14.9
	7	012	2	055	900	900	14.9
	8	012	2	055	900	900	14.9
	9	012	2	055	900	900	14.9
	10	012	2	055	900	900	14.9
	11	012	2	055	900	900	14.9
	12	012	2	055	900	900	14.9
	13	012	2	055	900	900	14.9
	14	012	2	055	900	900	14.9
	15	012	2	055	900	900	14.9

planta baja
Despliegue de vigas
Hormigón: HA-25, Yc=1,5
Acero en estribos: B 500 S, Ys=1,15
Escala pórticos 1:100
Escala secciones 1:100
Escala huecos 1:100

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
B 500 S, Ys=1.15	06	1527.4	373
06	422.9	184	
010	91.5	62	
012	668.8	653	
016	399.9	694	
020	46.4	126	2092



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGIA

PROYECTO :
DISEÑO ESTRUCTURAL DEL EDIFICIO PARA DEPARTAMENTOS EN EL BARRIO LAS PANOSAS

CARACTER :
DISEÑO DE VIGAS DEL PLANTA BAJA

DOCENTE :
ING. CARRASCO ARNOLD PAUL DENNIS.

UNIVERSITARIO:
HURTADO CACERES JOSUE

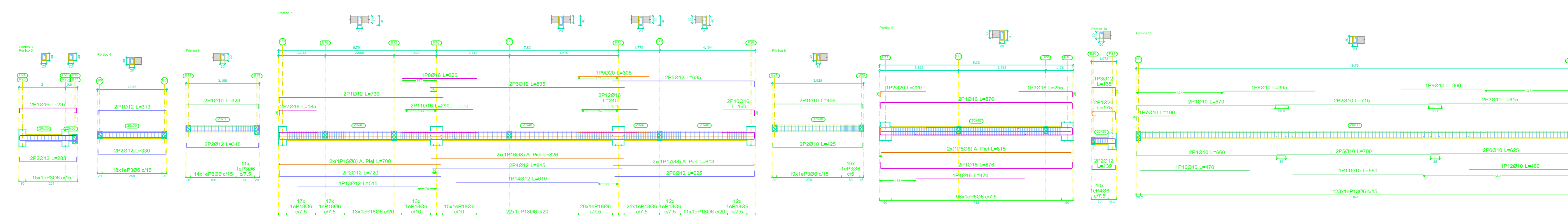
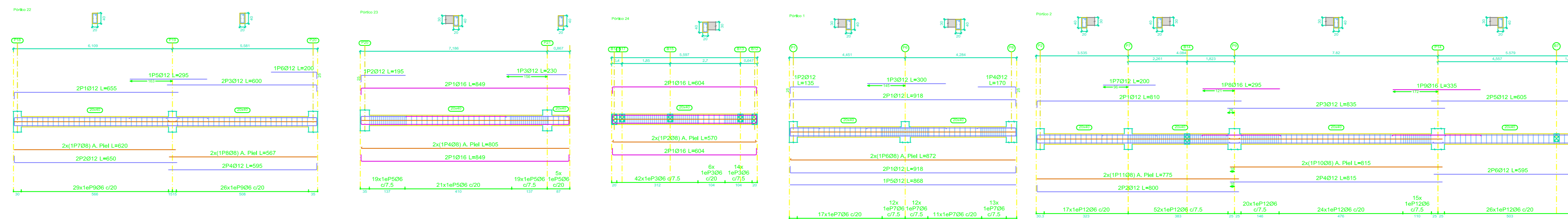
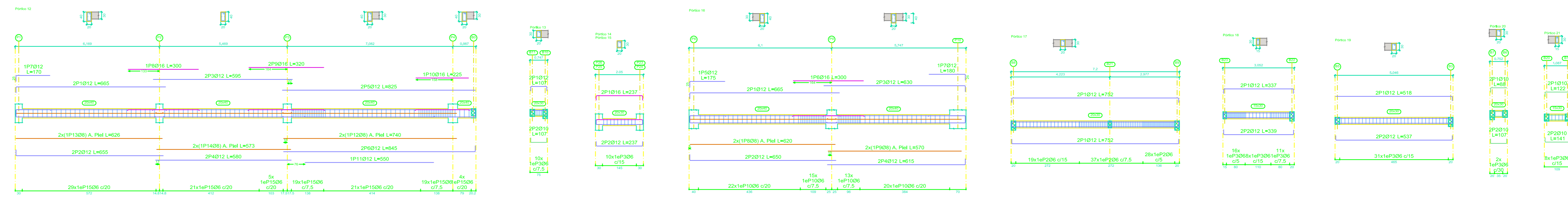
ESCALA: 1 : 100

LAMINA:
13/22

V0Bo GRUPO: IV FECHA: JULIO DE 2022

Elemento	Pos.	Diam.	No.	Esquema	Long. (cm)	Total (cm)	Peso (kg)
Pilar 1	1	Ø12	4		104	416	32.4
	2	Ø12	4		104	416	32.4
	3	Ø12	4		104	416	32.4
	4	Ø12	4		104	416	32.4
	5	Ø12	4		104	416	32.4
	6	Ø8	8		874	6992	438.8
	7	Ø8	8		104	832	51.5
Pilar 2	1	Ø12	2		208	416	32.4
	2	Ø12	2		208	416	32.4
	3	Ø12	2		208	416	32.4
	4	Ø12	2		208	416	32.4
	5	Ø12	2		208	416	32.4
	6	Ø12	2		208	416	32.4
	7	Ø12	2		208	416	32.4
	8	Ø14	1		208	208	16.2
	9	Ø14	1		208	208	16.2
	10	Ø8	2		1512	3024	189.6
	11	Ø8	2		104	208	13.1
	12	Ø8	2		104	208	13.1
	13	Ø8	2		104	208	13.1
	14	Ø8	2		104	208	13.1

Elemento	Pos.	Diam.	No.	Esquema	Long. (cm)	Total (cm)	Peso (kg)
Pilar 16	1	Ø12	4		104	416	32.4
	2	Ø12	4		104	416	32.4
	3	Ø8	8		874	6992	438.8
	4	Ø8	8		104	832	51.5
	5	Ø8	8		104	832	51.5



Mesamine
 Desplazo de vigas
 Hormigón: HA-25, Yc=1.5
 Acero en barras: B 500 S, Ys=1.15
 Escala pórtilos: 1:100
 Escala secciones: 1:100
 Escala huecos: 1:100

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
B 500 S, Ys=1.15	286	1273.4	311
Ø8	222.1	96	96
Ø10	138.6	94	94
Ø12	557.2	544	544
Ø16	163.4	264	264
Ø20	8.8	24	1353

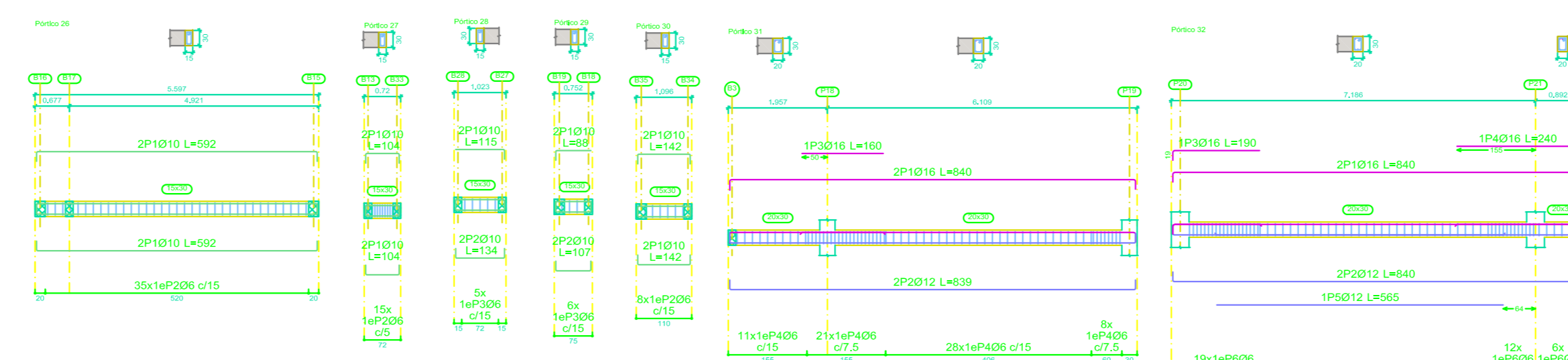
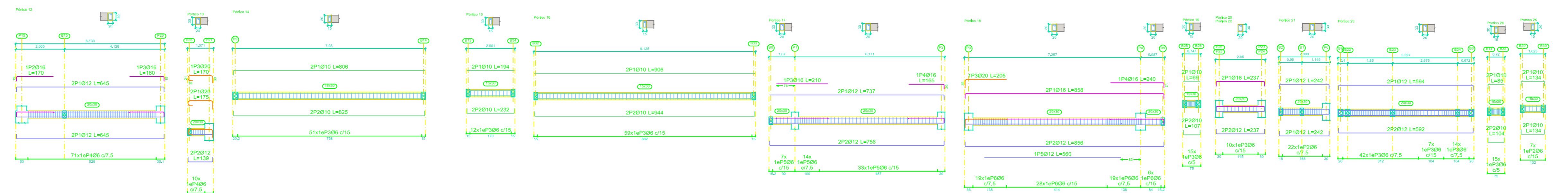
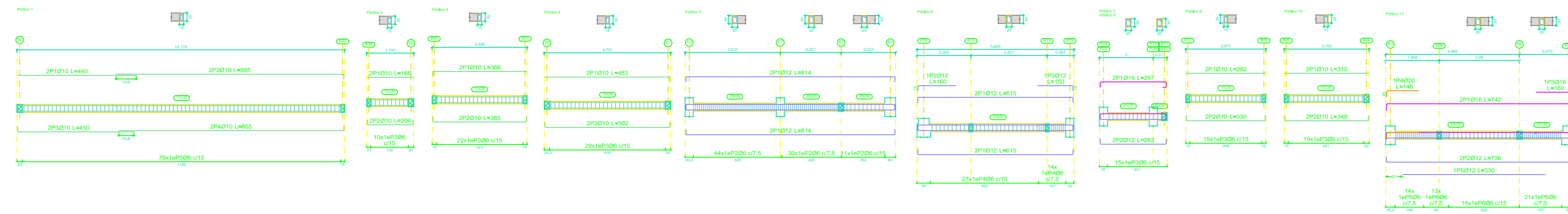
UNIVERSIDAD AUTONOMA
 "JUAN MISAEL SARACHO"
 FACULTAD DE CIENCIAS Y
 TECNOLOGIA

PROYECTO:
 DISEÑO ESTRUCTURAL DEL EDIFICIO
 PARA DEPARTAMENTOS EN EL BARRIO
 LAS PANOSAS

CARACTER: DESIECE DE VIGAS DEL MESANINE	DOCENTE: ING. CARRASCO ARNOLD PAUL DENNIS.
UNIVERSITARIO: HURTADO CACERES JOSUE	ESCALA: 1:100
VoBo	GRUPO: IV
FECHA: JULIO DE 2022	LAMINA: 14/22

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. Total (cm)	Total (kg)
Pórtico 1	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 1: 132.3						
Pórtico 2	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 2: 132.3						
Pórtico 3	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 3: 132.3						
Pórtico 4	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 4: 132.3						
Pórtico 5	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 5: 132.3						
Pórtico 6	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 6: 132.3						
Pórtico 7	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 7: 132.3						
Pórtico 8	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 8: 132.3						
Pórtico 9	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 9: 132.3						
Pórtico 10	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 10: 132.3						
Pórtico 11	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 11: 132.3						
Pórtico 12	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 12: 132.3						
Pórtico 13	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 13: 132.3						
Pórtico 14	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 14: 132.3						
Pórtico 15	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 15: 132.3						
Pórtico 16	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 16: 132.3						
Pórtico 17	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 17: 132.3						
Pórtico 18	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 18: 132.3						
Pórtico 19	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 19: 132.3						
Pórtico 20	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 20: 132.3						
Pórtico 21	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 21: 132.3						
Pórtico 22	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 22: 132.3						
Pórtico 23	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 23: 132.3						
Pórtico 24	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 24: 132.3						
Pórtico 25	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 25: 132.3						
Pórtico 26	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 26: 132.3						
Pórtico 27	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø10	2	[Diagrama]	440	26.5
	5	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 27: 132.3						

Elemento	Pos.	Diám.	No.	Esquema (cm)	Long. Total (cm)	Total (kg)
Pórtico 31	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 31: 132.3						
Pórtico 32	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 32: 132.3						
Pórtico 33	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 33: 132.3						
Pórtico 34	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 34: 132.3						
Pórtico 35	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 35: 132.3						
Pórtico 36	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 36: 132.3						
Pórtico 37	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 37: 132.3						
Pórtico 38	1	Ø10	2	[Diagrama]	440	26.5
	2	Ø10	2	[Diagrama]	440	26.5
	3	Ø10	2	[Diagrama]	440	26.5
	4	Ø8	76	[Diagrama]	76	13.3
Total Pórtico 38: 132.3						



planta 1
 Despiece de vigas
 Hormigón: HA-25, Yc=1.5
 Acero en barras: B 500 S, Ys=1.15
 Acero en estribos: B 500 S, Ys=1.15
 Escala secciones 1:100
 Escala huecos 1:100

Resumen Acero	Long. total (m)	Peso=10% (kg)	Total
B 500 S, Ys=1.15	Ø6	884.0	216
	Ø10	253.2	172
	Ø12	204.9	249
	Ø16	103.9	180
	Ø20	8.7	24
			841

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FACULTAD DE CIENCIAS Y TECNOLOGIA

PROYECTO :
DISEÑO ESTRUCTURAL DEL EDIFICIO PARA DEPARTAMENTOS EN EL BARRIO LAS PANOSAS

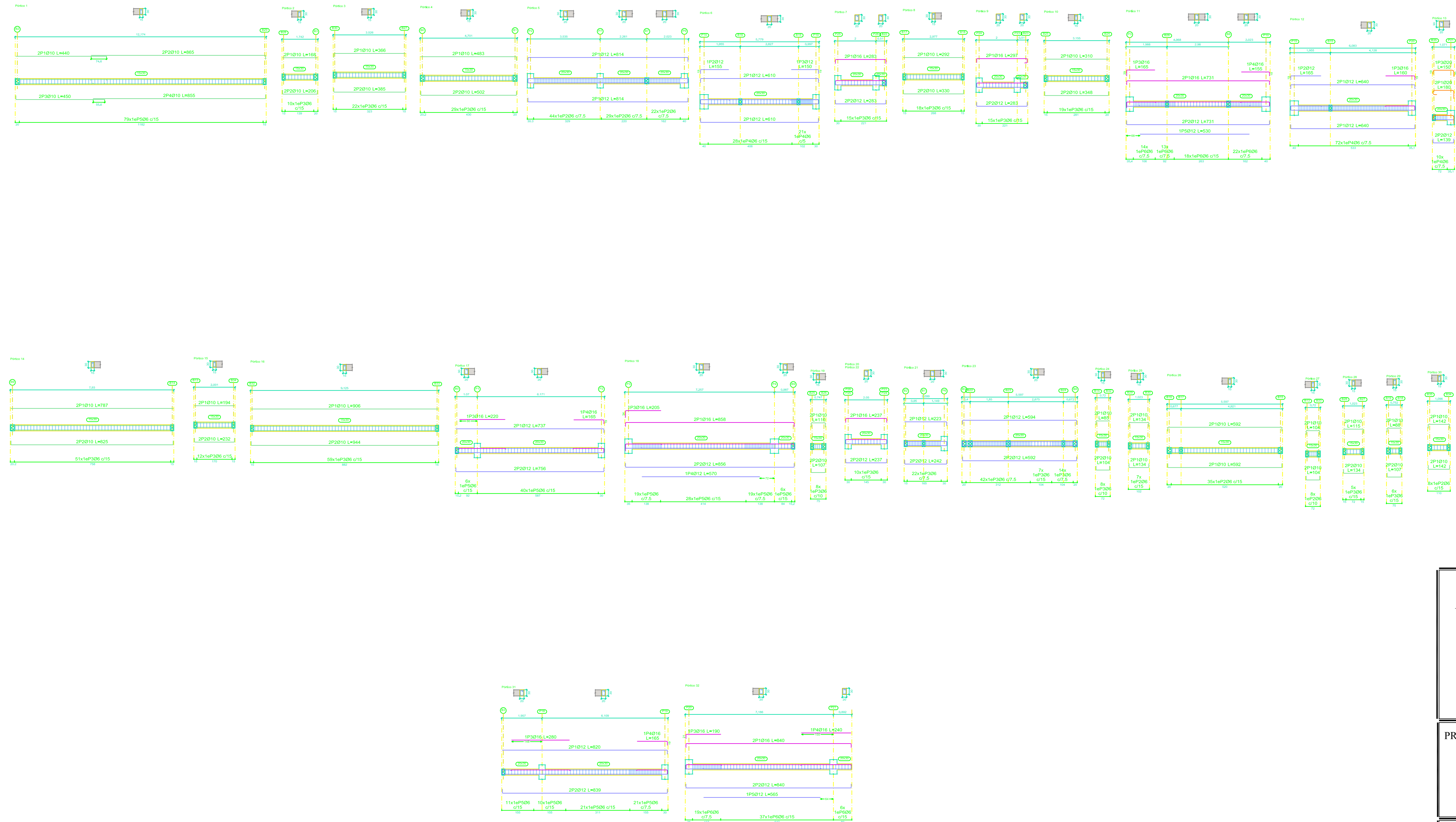
CARACTER : DESIECE DE VIGAS DEL PISO 1	DOCENTE : ING. CARRASCO ARNOLD PAUL DENNIS.
UNIVERSITARIO: HURTADO CACERES JOSUE	ESCALA: 1 : 100
VoBo	GRUPO: IV
FECHA: JULIO DE 2022	15/22

Elemento	Pos.	Diam.	No.	Esquema (cm)	Long. Total (cm)	Total B 500 S, Ys=1.15 (Kg)	
Piso 01	1	Ø10	2	[Diagrama]	648	881	1.4
	2	Ø10	2	[Diagrama]	648	1730	10.7
	3	Ø10	2	[Diagrama]	648	881	1.4
	4	Ø10	2	[Diagrama]	655	1730	10.5
Total Piso 01							15.0
Piso 02	1	Ø10	2	[Diagrama]	168	138	2.1
	2	Ø10	2	[Diagrama]	294	432	2.8
	3	Ø8	12	[Diagrama]	74	740	1.7
Total Piso 02							6.6
Piso 03	1	Ø10	2	[Diagrama]	356	732	4.5
	2	Ø10	2	[Diagrama]	388	779	4.7
	3	Ø8	22	[Diagrama]	74	1672	3.7
Total Piso 03							12.9
Piso 04	1	Ø10	2	[Diagrama]	443	886	6.0
	2	Ø10	2	[Diagrama]	502	1004	6.2
	3	Ø8	29	[Diagrama]	74	2294	4.9
Total Piso 04							17.1
Piso 05	1	Ø12	4	[Diagrama]	814	3298	26.9
	2	Ø8	46	[Diagrama]	68	8170	16.1
	Total Piso 05						
Piso 06	1	Ø12	4	[Diagrama]	818	3292	26.7
	2	Ø12	4	[Diagrama]	108	1080	1.4
	3	Ø12	1	[Diagrama]	105	105	1.3
	4	Ø8	44	[Diagrama]	68	4744	9.4
Total Piso 06							32.8
Piso 07	1	Ø12	2	[Diagrama]	263	564	3.9
	2	Ø12	2	[Diagrama]	263	564	3.9
	3	Ø8	15	[Diagrama]	68	1284	2.9
Total Piso 07							10.7
Piso 08	1	Ø10	2	[Diagrama]	200	164	3.8
	2	Ø10	2	[Diagrama]	100	680	4.1
	3	Ø8	14	[Diagrama]	74	1344	3.0
Total Piso 08							10.9
Piso 09	1	Ø12	2	[Diagrama]	297	594	4.4
	2	Ø12	2	[Diagrama]	293	586	4.3
	3	Ø8	19	[Diagrama]	68	1294	2.9
Total Piso 09							11.6
Piso 10	1	Ø10	2	[Diagrama]	318	636	3.8
	2	Ø10	2	[Diagrama]	344	688	4.3
	3	Ø8	19	[Diagrama]	74	1444	3.2
Total Piso 10							11.4
Piso 11	1	Ø12	2	[Diagrama]	751	1402	25.1
	2	Ø12	2	[Diagrama]	752	1404	25.1
	3	Ø12	1	[Diagrama]	165	165	2.4
	4	Ø12	1	[Diagrama]	158	158	2.4
	5	Ø12	1	[Diagrama]	558	558	4.7
Total Piso 11							59.9
Piso 12	1	Ø12	4	[Diagrama]	649	2600	22.7
	2	Ø12	1	[Diagrama]	165	165	1.5
	3	Ø12	1	[Diagrama]	165	165	1.5
	4	Ø8	72	[Diagrama]	68	8192	16.7
Total Piso 12							42.4
Piso 13	1	Ø12	2	[Diagrama]	144	288	1.8
	2	Ø12	2	[Diagrama]	139	278	2.5
	3	Ø12	1	[Diagrama]	165	165	1.5
	4	Ø8	10	[Diagrama]	68	680	1.9
Total Piso 13							5.7
Piso 14	1	Ø10	2	[Diagrama]	747	1494	9.7
	2	Ø10	2	[Diagrama]	628	1256	10.2
	3	Ø8	51	[Diagrama]	74	1074	4.8
Total Piso 14							24.7
Piso 15	1	Ø10	2	[Diagrama]	184	368	2.4
	2	Ø10	2	[Diagrama]	232	464	2.9
	3	Ø8	12	[Diagrama]	74	812	2.8
Total Piso 15							8.1
Piso 16	1	Ø10	2	[Diagrama]	608	1216	11.2
	2	Ø10	2	[Diagrama]	644	1288	11.8
	3	Ø8	53	[Diagrama]	74	4484	10.0
Total Piso 16							33.0
Piso 17	1	Ø12	2	[Diagrama]	797	1594	16.1
	2	Ø12	2	[Diagrama]	796	1592	16.1
	3	Ø12	1	[Diagrama]	229	229	3.5
	4	Ø12	1	[Diagrama]	168	168	2.8
	5	Ø8	42	[Diagrama]	68	3548	8.8
Total Piso 17							37.3
Piso 18	1	Ø12	2	[Diagrama]	658	1316	21.1
	2	Ø12	2	[Diagrama]	686	1372	21.2
	3	Ø12	1	[Diagrama]	268	268	3.9
	4	Ø12	1	[Diagrama]	578	578	5.1
Total Piso 18							51.5
Piso 19	1	Ø10	2	[Diagrama]	118	236	1.4
	2	Ø10	2	[Diagrama]	107	214	1.3
	3	Ø8	4	[Diagrama]	74	684	1.3
Total Piso 19							4.0
Piso 20 (Piso 00)	1	Ø12	2	[Diagrama]	227	454	7.8
	2	Ø12	2	[Diagrama]	227	454	7.8
	3	Ø8	10	[Diagrama]	68	680	1.9
Total Piso 20							17.5
Piso 21	1	Ø12	2	[Diagrama]	223	446	4.3
	2	Ø12	2	[Diagrama]	242	484	4.3
	3	Ø8	22	[Diagrama]	68	1484	4.2
Total Piso 21							12.8
Piso 22	1	Ø12	2	[Diagrama]	294	588	10.5
	2	Ø12	2	[Diagrama]	602	1204	10.8
	3	Ø8	61	[Diagrama]	68	5418	12.0
Total Piso 22							33.3
Piso 24	1	Ø10	2	[Diagrama]	68	136	1.8
	2	Ø10	2	[Diagrama]	164	328	1.3
	3	Ø8	8	[Diagrama]	74	684	1.3
Total Piso 24							4.4
Piso 25	1	Ø10	4	[Diagrama]	134	670	3.1
	2	Ø8	7	[Diagrama]	74	558	1.2
Total Piso 25							4.3
Piso 26	1	Ø10	4	[Diagrama]	162	648	16.8
	2	Ø8	35	[Diagrama]	74	2680	5.8
Total Piso 26							22.6
Piso 27	1	Ø10	4	[Diagrama]	164	656	2.8
	2	Ø8	8	[Diagrama]	74	684	1.3
Total Piso 27							4.1

Elemento	Pos.	Diam.	No.	Esquema (cm)	Long. Total (cm)	Total B 500 S, Ys=1.15 (Kg)	
Piso 28	1	Ø10	2	[Diagrama]	116	232	1.4
	2	Ø10	2	[Diagrama]	134	268	1.7
	3	Ø8	5	[Diagrama]	74	580	1.3
Total Piso 28							4.4
Piso 29	1	Ø10	2	[Diagrama]	68	136	1.1
	2	Ø10	2	[Diagrama]	101	202	1.3
Total Piso 29							2.4
Piso 30	1	Ø10	4	[Diagrama]	142	568	3.5
	2	Ø8	8	[Diagrama]	74	680	1.3
Total Piso 30							4.8
Piso 31	1	Ø12	2	[Diagrama]	1001	2002	14.8
	2	Ø12	2	[Diagrama]	628	1256	14.9
	3	Ø12	1	[Diagrama]	200	200	4.4
	4	Ø12	1	[Diagrama]	165	165	2.4
	5	Ø8	53	[Diagrama]	68	5418	12.0
Total Piso 31							38.4
Piso 32	1	Ø12	2	[Diagrama]	645	1290	26.5
	2	Ø12	2	[Diagrama]	648	1296	16.9
	3	Ø12	1	[Diagrama]	165	165	1.5
	4	Ø12	1	[Diagrama]	242	242	3.4
	5	Ø12	1	[Diagrama]	558	558	4.5
Total Piso 32							52.8
Total							421.8
Ø10							224.4
Ø12							184.7
Ø8							19.7
Total							429.8

planta 2
 Desplaz de vigas
 Hormigón: HA-25, Yc=1.5
 Acero en barras: B 500 S, Ys=1.15
 Escala pórticos: 1:100
 Escala secciones: 1:100
 Escala huecos: 1:100

Resumen Acero	Long. total (m)	Peso=10% (Kg)	Total
B 500 S, Ys=1.15	06	808.9	212
Ø10	1012	253.6	172
Ø12	272.1	266	
Ø20	5.1	14	819



UNIVERSIDAD AUTONOMA "JUAN MISAEL SARACHO" FACULTAD DE CIENCIAS Y TECNOLOGIA

PROYECTO :
 DISEÑO ESTRUCTURAL DEL EDIFICIO PARA DEPARTAMENTOS EN EL BARRIO LAS PANOSAS

CARACTER :
 DESIECE DE VIGAS DEL PISO 2

DOCENTE :
 ING. CARRASCO ARNOLD PAUL DENNIS.

UNIVERSITARIO:
 HURTADO CACERES JOSUE

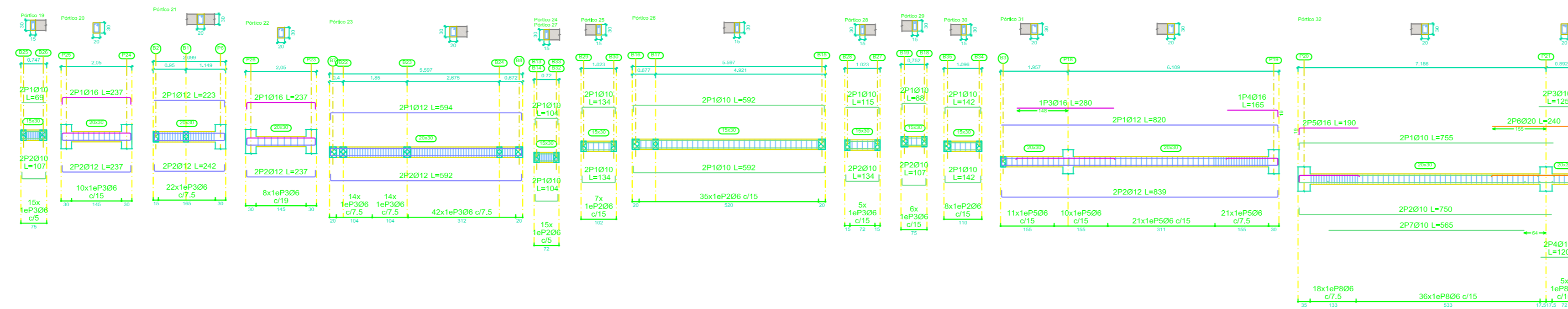
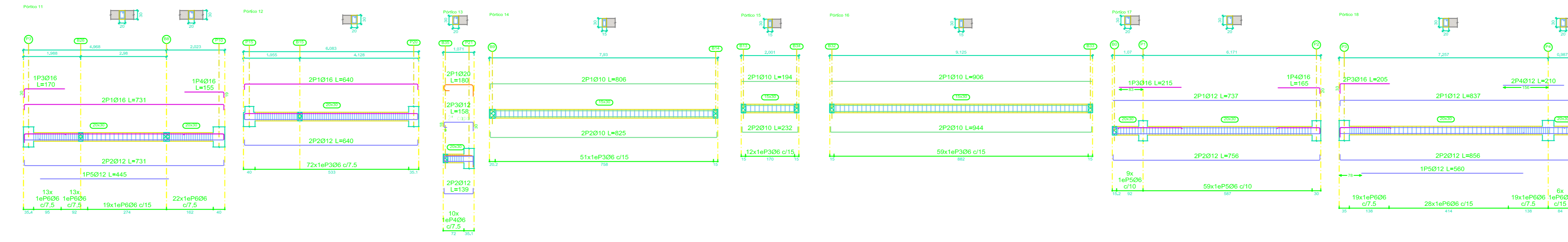
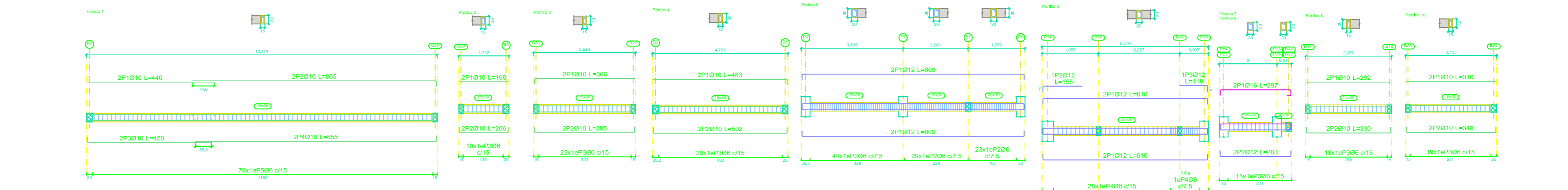
ESCALA:
 1:100

LAMINA:
 16/22

VoBo GRUPO: IV FECHA: JULIO DE 2022

Elemento	Pos.	Dist.	No.	Esquema (cm)	Long. (cm)	Total (cm)	B 500 S, Ya=1.15 (kg)
Piso 1	1	Ø10	2	[Diagrama]	460	920	5.4
	2	Ø10	2	[Diagrama]	860	1720	10.7
	3	Ø10	2	[Diagrama]	490	980	6.1
	4	Ø10	2	[Diagrama]	850	1700	10.5
Total Piso 1: 32.7							
Piso 2	1	Ø10	2	[Diagrama]	390	780	4.9
	2	Ø10	2	[Diagrama]	700	1400	8.7
Total Piso 2: 13.6							
Piso 3	1	Ø10	2	[Diagrama]	367	734	4.6
	2	Ø10	2	[Diagrama]	393	786	4.9
Total Piso 3: 9.5							
Piso 4	1	Ø10	2	[Diagrama]	354	708	4.4
	2	Ø10	2	[Diagrama]	464	928	5.8
	3	Ø10	2	[Diagrama]	16	32	0.2
	4	Ø10	2	[Diagrama]	16	32	0.2
Total Piso 4: 10.6							
Piso 5	1	Ø12	4	[Diagrama]	800	3200	20.1
	2	Ø10	16	[Diagrama]	80	1280	8.0
Total Piso 5: 28.1							
Piso 6	1	Ø12	4	[Diagrama]	610	2440	15.4
	2	Ø12	1	[Diagrama]	160	160	1.0
	3	Ø12	1	[Diagrama]	110	110	0.7
	4	Ø10	4	[Diagrama]	80	320	2.0
Total Piso 6: 19.1							
Piso 7	1	Ø10	2	[Diagrama]	237	474	3.0
	2	Ø10	2	[Diagrama]	254	508	3.2
	3	Ø10	15	[Diagrama]	80	1200	7.6
Total Piso 7: 13.8							
Piso 8	1	Ø10	2	[Diagrama]	202	404	2.6
	2	Ø10	2	[Diagrama]	230	460	3.0
	3	Ø10	16	[Diagrama]	70	1120	7.1
Total Piso 8: 12.7							
Piso 9	1	Ø10	2	[Diagrama]	210	420	2.7
	2	Ø10	2	[Diagrama]	248	496	3.2
	3	Ø10	16	[Diagrama]	70	1120	7.2
Total Piso 9: 13.1							
Piso 10	1	Ø10	2	[Diagrama]	255	510	3.3
	2	Ø10	2	[Diagrama]	255	510	3.3
	3	Ø10	1	[Diagrama]	155	155	1.0
	4	Ø10	1	[Diagrama]	155	155	1.0
	5	Ø12	1	[Diagrama]	80	80	0.5
Total Piso 10: 10.1							
Piso 11	1	Ø10	2	[Diagrama]	210	420	2.7
	2	Ø10	2	[Diagrama]	210	420	2.7
	3	Ø10	1	[Diagrama]	170	170	1.1
	4	Ø10	1	[Diagrama]	155	155	1.0
Total Piso 11: 7.5							
Piso 12	1	Ø10	2	[Diagrama]	440	880	5.6
	2	Ø12	2	[Diagrama]	540	1080	6.8
	3	Ø10	7	[Diagrama]	80	560	3.5
	4	Ø10	7	[Diagrama]	80	560	3.5
Total Piso 12: 19.4							
Piso 13	1	Ø10	2	[Diagrama]	160	320	2.0
	2	Ø10	2	[Diagrama]	170	340	2.2
	3	Ø10	2	[Diagrama]	150	300	1.9
	4	Ø10	16	[Diagrama]	70	1120	7.2
Total Piso 13: 13.3							
Piso 14	1	Ø10	2	[Diagrama]	306	612	3.9
	2	Ø10	2	[Diagrama]	400	800	5.1
	3	Ø10	11	[Diagrama]	70	770	4.9
Total Piso 14: 13.9							
Piso 15	1	Ø10	2	[Diagrama]	194	388	2.4
	2	Ø10	2	[Diagrama]	232	464	2.9
	3	Ø10	12	[Diagrama]	70	840	5.3
Total Piso 15: 10.6							
Piso 16	1	Ø10	2	[Diagrama]	306	612	3.9
	2	Ø10	2	[Diagrama]	344	688	4.3
	3	Ø10	16	[Diagrama]	70	1120	7.2
Total Piso 16: 15.4							
Piso 17	1	Ø12	2	[Diagrama]	737	2948	18.7
	2	Ø12	2	[Diagrama]	737	2948	18.7
	3	Ø10	1	[Diagrama]	210	210	1.3
	4	Ø10	1	[Diagrama]	150	150	1.0
	5	Ø10	16	[Diagrama]	80	1280	8.0
Total Piso 17: 37.4							
Piso 18	1	Ø12	2	[Diagrama]	818	3272	20.5
	2	Ø12	2	[Diagrama]	818	3272	20.5
	3	Ø10	2	[Diagrama]	260	520	3.3
	4	Ø10	2	[Diagrama]	250	500	3.1
	5	Ø10	1	[Diagrama]	800	800	5.0
	6	Ø10	7	[Diagrama]	80	560	3.5
Total Piso 18: 55.9							
Piso 19	1	Ø10	2	[Diagrama]	100	200	1.3
	2	Ø10	2	[Diagrama]	107	214	1.4
	3	Ø10	15	[Diagrama]	70	1050	6.7
Total Piso 19: 9.4							
Piso 20	1	Ø10	2	[Diagrama]	186	372	2.4
	2	Ø12	2	[Diagrama]	217	434	2.8
	3	Ø10	16	[Diagrama]	80	1120	7.2
Total Piso 20: 12.4							
Piso 21	1	Ø10	2	[Diagrama]	233	466	3.0
	2	Ø12	2	[Diagrama]	242	484	3.1
	3	Ø10	22	[Diagrama]	80	1760	11.1
Total Piso 21: 17.2							
Piso 22	1	Ø10	2	[Diagrama]	217	434	2.8
	2	Ø12	2	[Diagrama]	217	434	2.8
	3	Ø10	4	[Diagrama]	80	320	2.0
Total Piso 22: 7.6							
Piso 23	1	Ø12	2	[Diagrama]	354	1416	8.9
	2	Ø12	2	[Diagrama]	354	1416	8.9
	3	Ø10	7	[Diagrama]	80	560	3.5
Total Piso 23: 21.3							
Piso 24	1	Ø10	4	[Diagrama]	154	616	3.9
	2	Ø10	15	[Diagrama]	70	1050	6.7
	3	Ø10	1	[Diagrama]	154	154	1.0
Total Piso 24: 11.6							
Piso 25	1	Ø10	4	[Diagrama]	134	536	3.4
	2	Ø10	1	[Diagrama]	70	70	0.4
	3	Ø10	1	[Diagrama]	70	70	0.4
Total Piso 25: 4.2							
Piso 26	1	Ø10	4	[Diagrama]	134	536	3.4
	2	Ø10	1	[Diagrama]	70	70	0.4
	3	Ø10	1	[Diagrama]	70	70	0.4
Total Piso 26: 4.2							
Piso 27	1	Ø10	2	[Diagrama]	115	230	1.4
	2	Ø10	2	[Diagrama]	134	268	1.7
	3	Ø10	16	[Diagrama]	70	1120	7.2
Total Piso 27: 10.3							

Elemento	Pos.	Dist.	No.	Esquema (cm)	Long. (cm)	Total (cm)	B 500 S, Ya=1.15 (kg)
Piso 28	1	Ø10	2	[Diagrama]	174	348	2.2
	2	Ø10	2	[Diagrama]	107	214	1.4
Total Piso 28: 3.6							
Piso 29	1	Ø10	4	[Diagrama]	142	568	3.5
	2	Ø10	4	[Diagrama]	70	280	1.8
Total Piso 29: 5.3							
Piso 30	1	Ø12	2	[Diagrama]	800	3200	20.1
	2	Ø12	2	[Diagrama]	800	3200	20.1
	3	Ø10	1	[Diagrama]	260	260	1.6
	4	Ø10	1	[Diagrama]	160	160	1.0
Total Piso 30: 42.9							
Total Piso 31: 82.8							



planta 3
Despiece de vigas
Hormigón: HA-25, Yc=1.5
Acero en barras: B 500 S, Ya=1.15
Escala pódicos 1:100
Escala secciones 1:100

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
B 500 S, Ya=1.15	Ø6	900.3	220
	Ø10	299.9	203
	Ø12	257.8	252
	Ø16	68.2	118
	Ø20	8.4	23
			816

**UNIVERSIDAD AUTONOMA
"JUAN MISAEL SARACHO"**
FACULTAD DE CIENCIAS Y
TECNOLOGIA

PROYECTO :
**DISEÑO ESTRUCTURAL DEL EDIFICIO
PARA DEPARTAMENTOS EN EL BARRIO
LAS PANOSAS**

CARACTER : DESIECE DE VIGAS DEL PISO 3	DOCENTE : ING. CARRASCO ARNOLD PAUL DENNIS.
UNIVERSITARIO: HURTADO CACERES JOSUE	ESCALA: 1 : 100
VoBo	GRUPO: IV
FECHA: JULIO DE 2022	

17/22