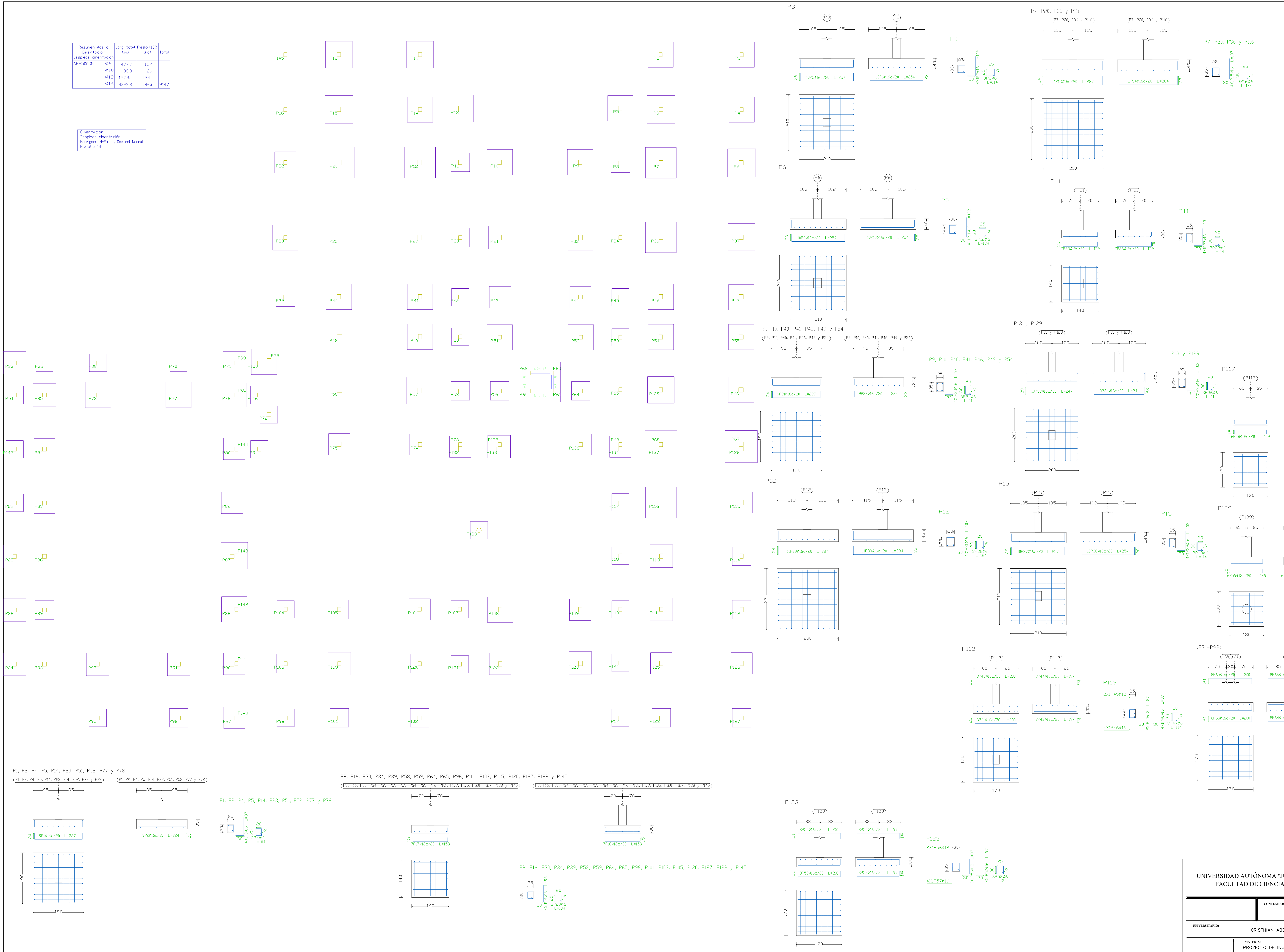
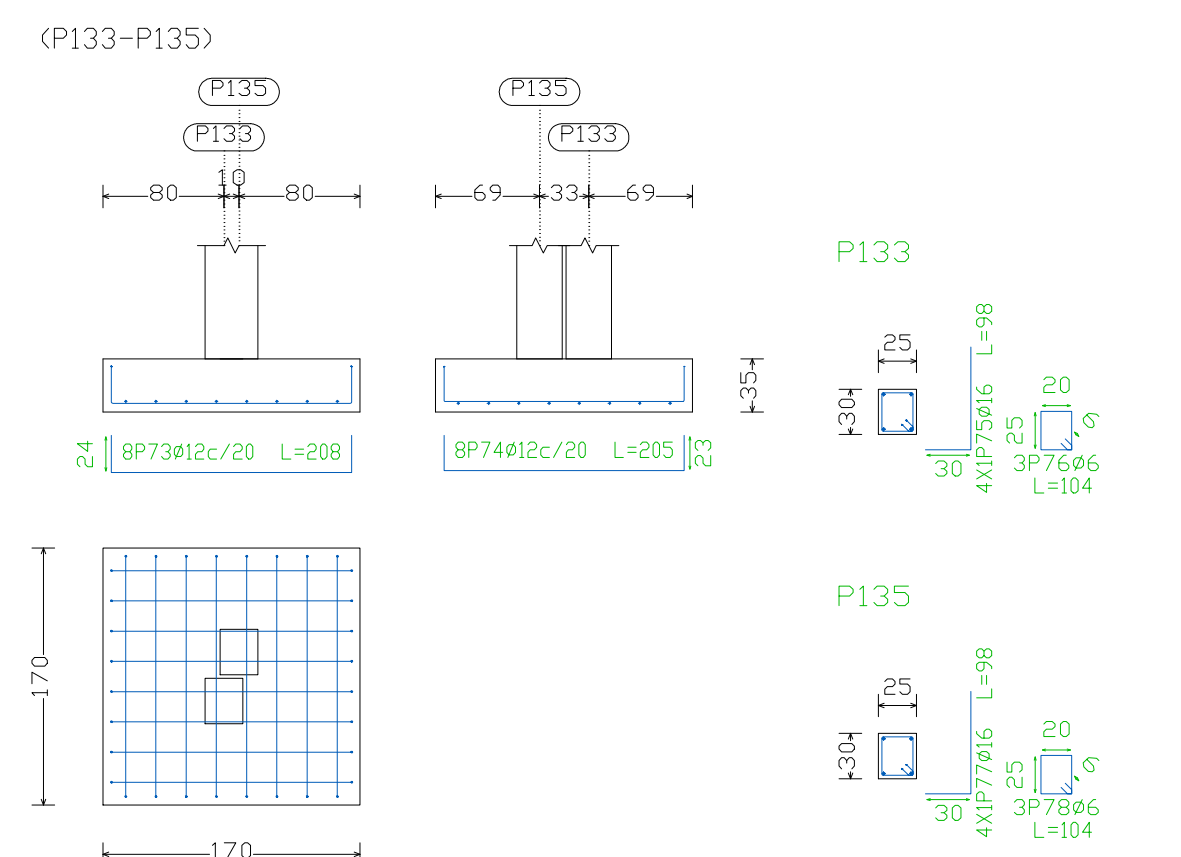
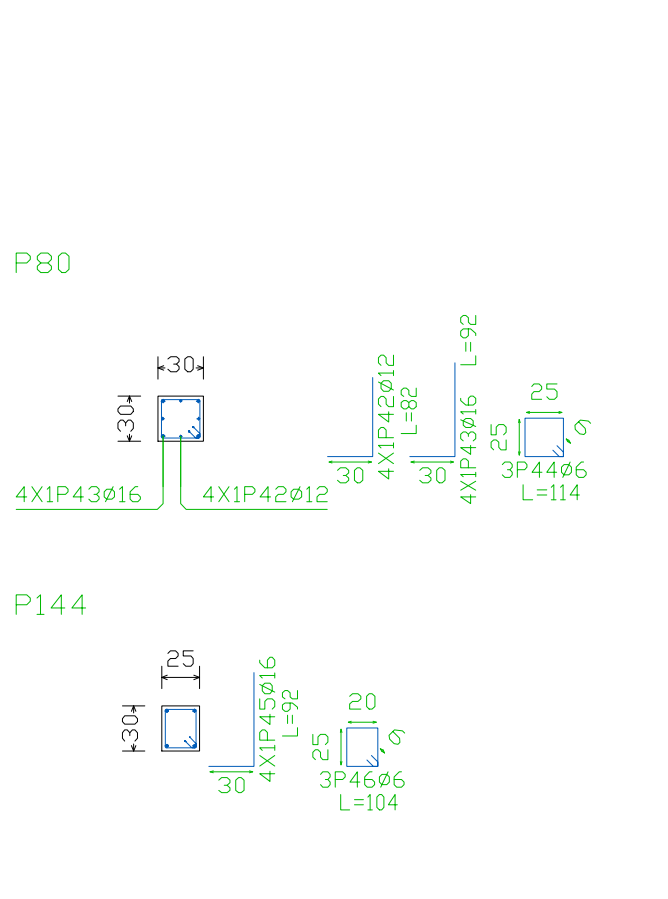
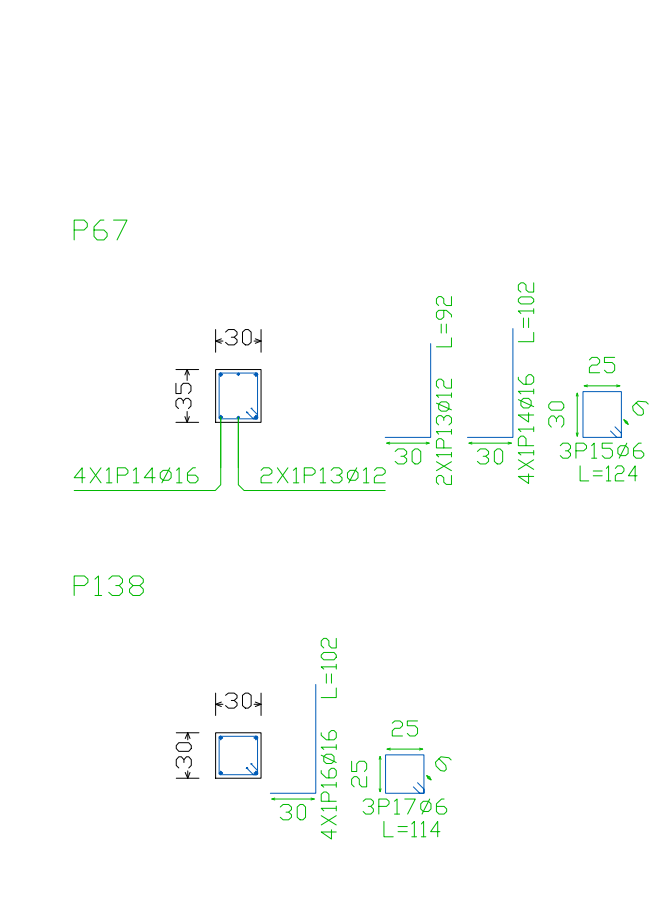
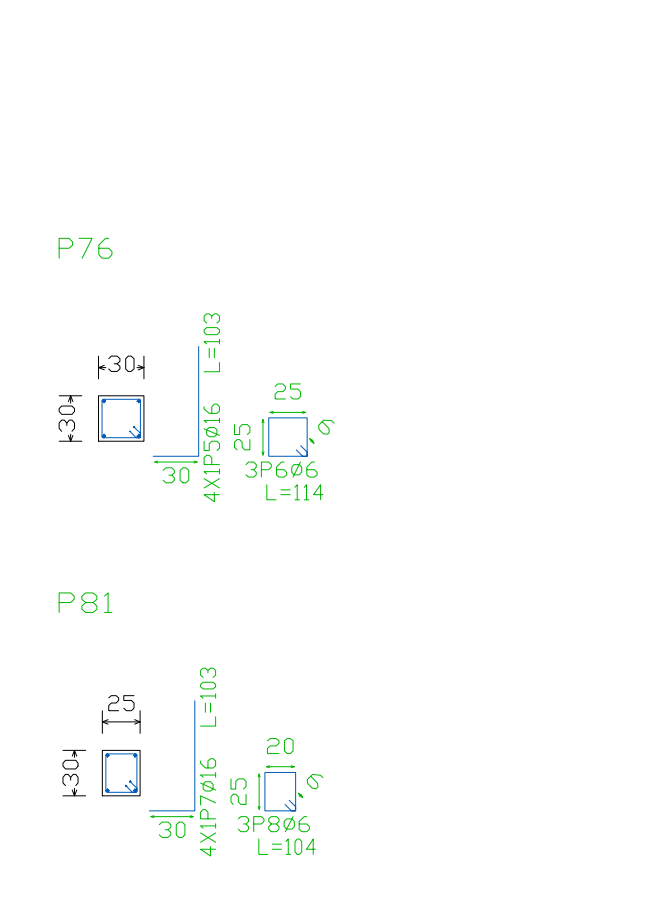


Cimentación
Desplazamiento
Hormigón: H-25, Control Normal
Escala: 1:100

Elemento	Pos. [deg]	Alt. [deg]	Long. [deg]	Lat. [deg]	WGS84-SOIGN
P207-07-07-78	1	16	9	204	2016
	2	16	9	204	2016
	4	16	9	204	2016
P3	5	16	10	227	2015
	6	16	10	227	2015
	8	16	10	227	2015
P6	9	16	10	234	2040
	10	16	10	234	2040
	12	16	10	234	2040
P7-08-04-05-16	13	16	11	287	2015
	14	16	11	287	2015
	15	16	11	287	2015
P8-04-04-05-16	16	16	12	304	2016
	17	16	12	304	2016
	18	16	12	304	2016
P9-04-04-05-16	19	16	7	159	1113
	20	16	7	159	1113
	21	16	7	159	1113
P10-04-04-05-16	22	16	9	207	2043
	23	16	9	207	2043
	24	16	9	207	2043
P11	25	16	13	314	2043
	26	16	13	314	2043
	28	16	13	314	2043
P12	29	16	11	287	2015
	30	16	11	287	2015
	31	16	11	287	2015
P13-07-07	32	16	10	227	2015
	33	16	10	227	2015
	35	16	9	114	362
P15	37	16	10	227	2015
	38	16	10	227	2015
	40	16	10	227	2015
P13-07-07	41	16	8	177	1575
	42	16	8	177	1575
	44	16	8	177	1575
P14	45	16	12	304	2016
	46	16	12	304	2016
	48	16	12	304	2016
P17	49	16	6	149	894
	50	16	6	149	894
	51	16	6	149	894
P12	52	16	8	177	1575
	53	16	8	177	1575
	54	16	8	177	1575
P13-07-07	55	16	8	177	1575
	56	16	8	177	1575
	57	16	8	177	1575
P17	58	16	6	149	894
	59	16	6	149	894
	60	16	6	149	894
P19	61	16	6	149	894
	62	16	6	149	894
	63	16	6	149	894
(P19-07)	64	16	8	177	1575
	65	16	8	177	1575
	66	16	8	177	1575
	68	16	9	204	2016
	69	16	9	204	2016
	70	16	9	204	2016





(P68-P137)

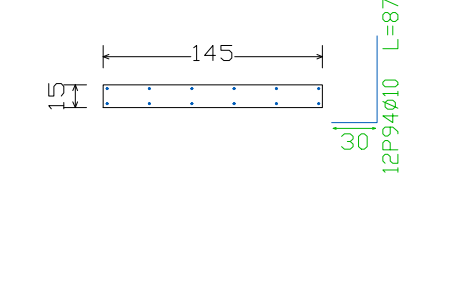
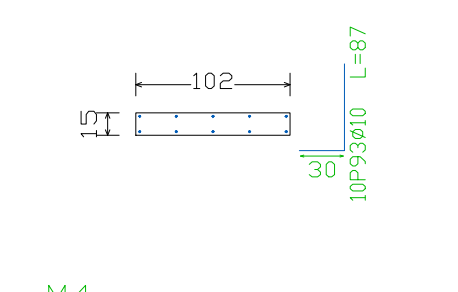
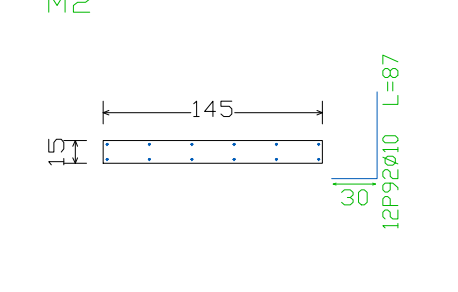
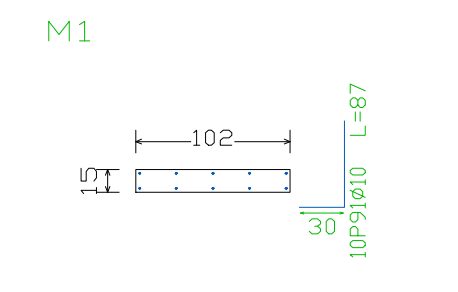
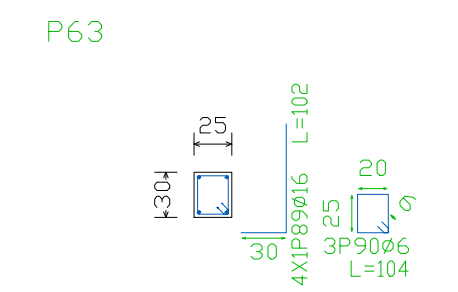
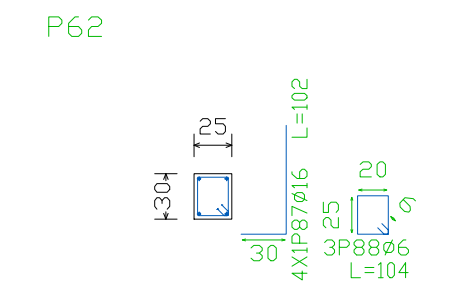
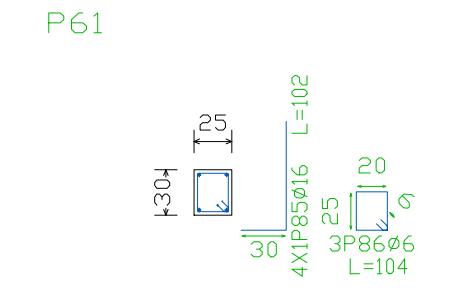
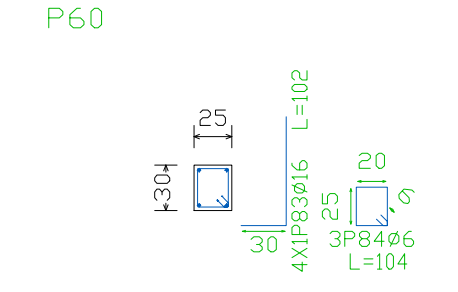
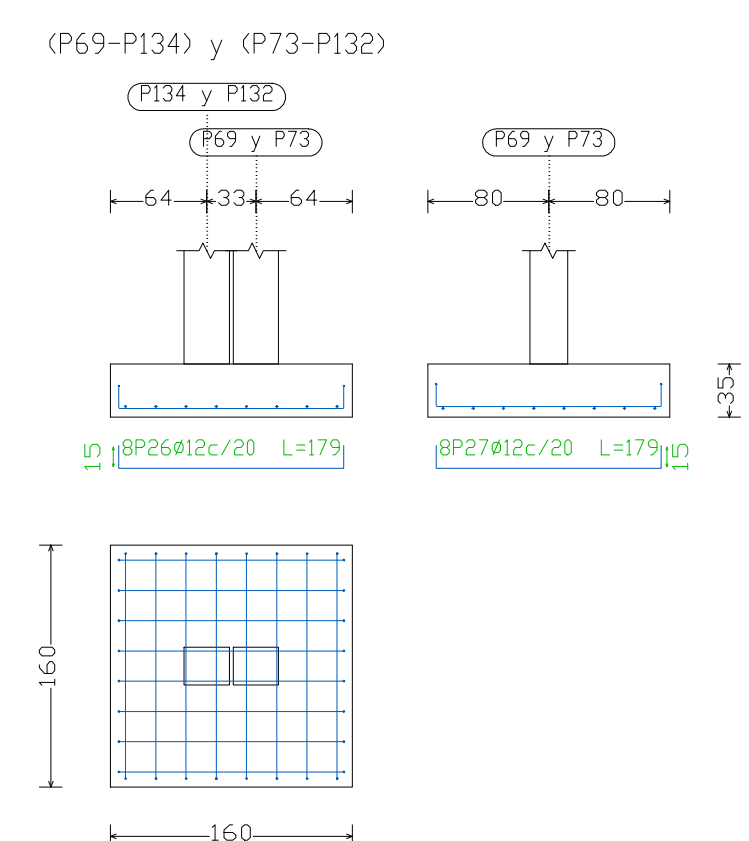
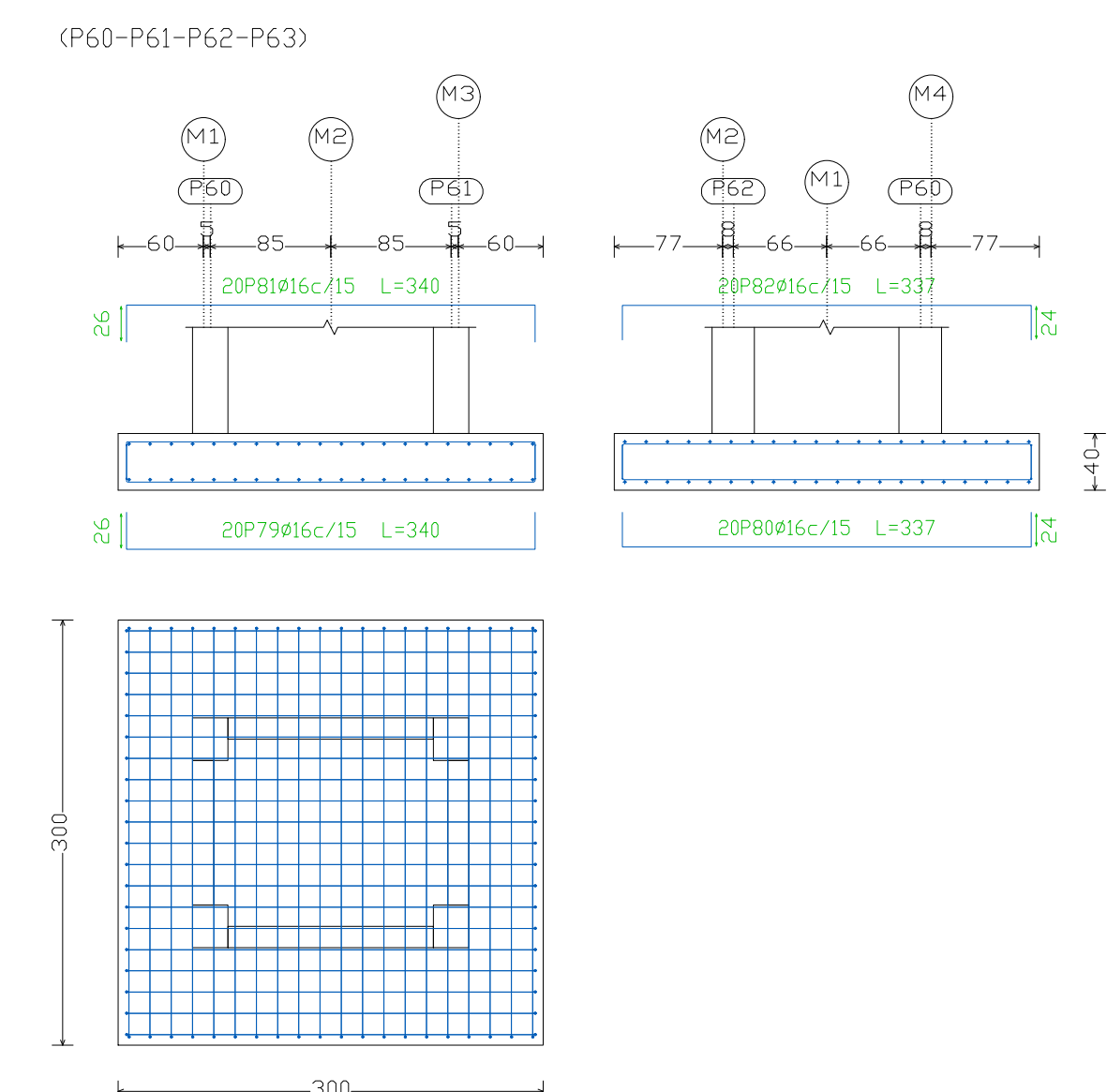
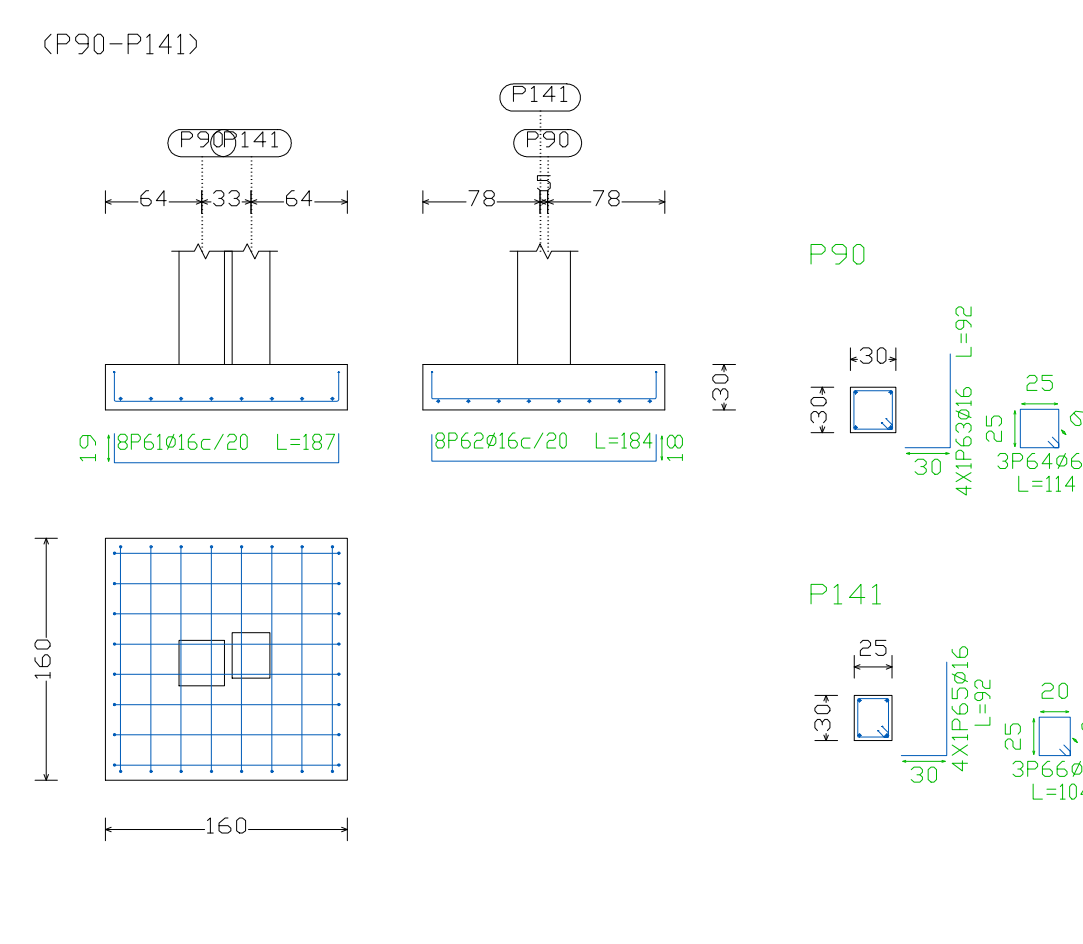
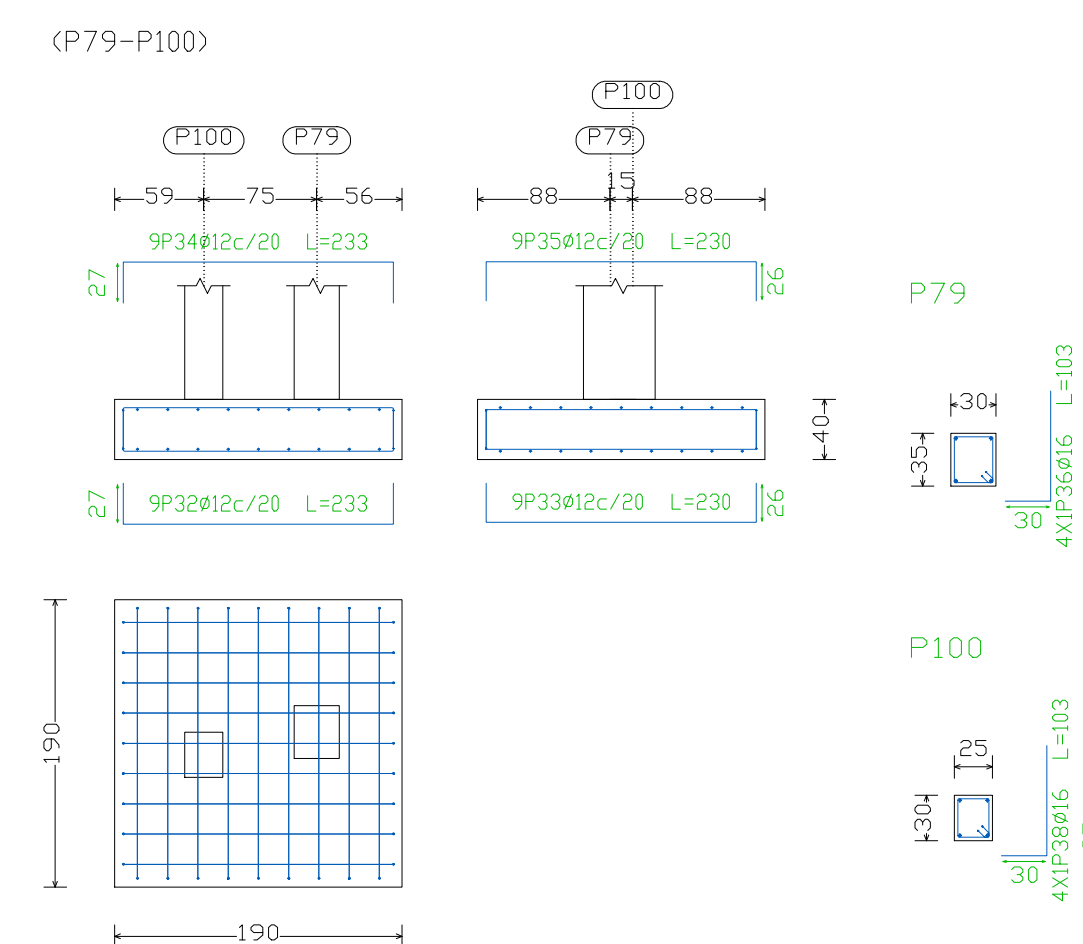
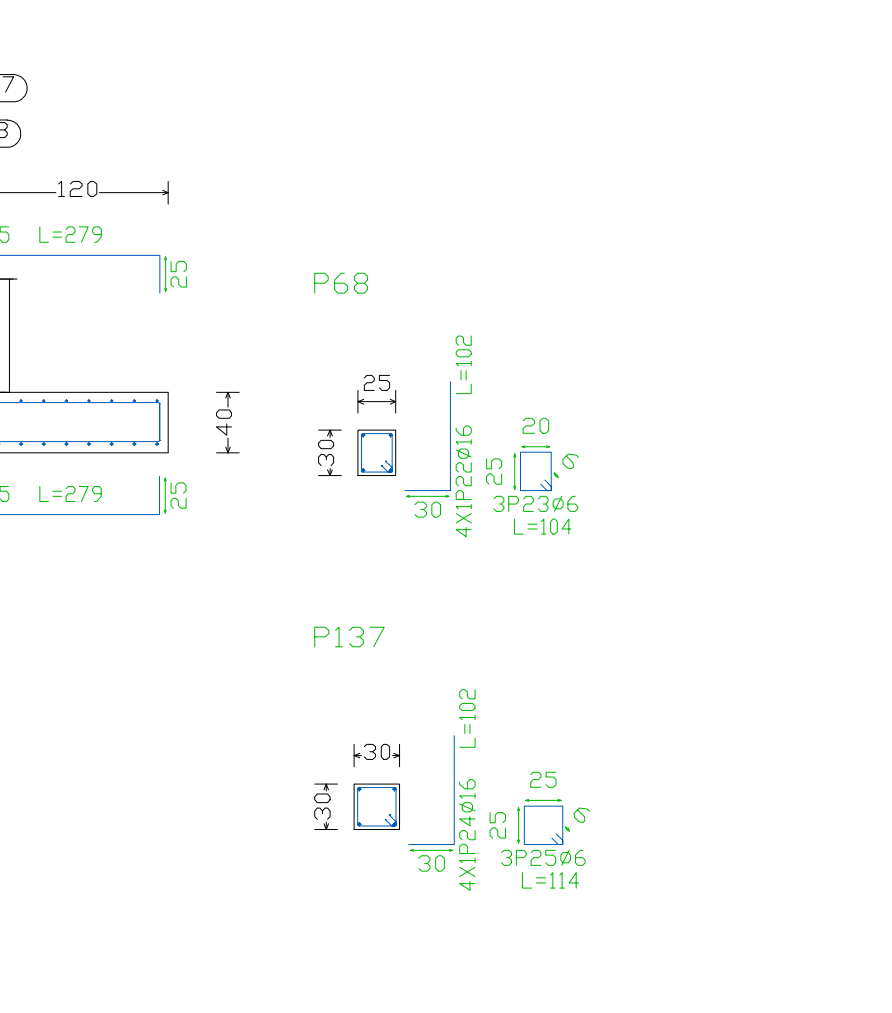
P137
P68

104 33 104
16P20B12C/15 L=281

240

104 33 104
16P18B16C/15 L=282

240



Elemento	Fos	D	N	n	long (cm)	area (500C)
(95)-R80						
1	#12				235	166
2	#12				235	166
3	#12				235	166
4	#12				235	166
5	#12				235	166
6	#12				235	166
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9	#12				235	166
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11	#12				235	166
12	#12				235	166
13	#12				235	166
14	#12				235	166
15	#12				235	166
16	#12				235	166
17	#6				134	947
(96)-P1220						
1	#12				235	166
2	#12				235	166
3	#12				235	166
4	#12				235	166
5	#12				235	166
6	#12				235	166
7	#12				235	166
8	#12				235	166
9	#12				235	166
10	#12				235	166
11	#12				235	166
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13	#12				235	166
14	#12				235	166
15	#12				235	166
16	#12				235	166
17	#6				134	947
(96)-P1247-P1250						
1	#12				179	1434
2	#12				179	1434
3	#12				179	1434
4	#12				179	1434
5	#12				179	1434
6	#12				179	1434
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14	#12				179	1434
15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
1	#12				179	1434
2	#12				179	1434
3	#12				179	1434
4	#12				179	1434
5	#12				179	1434
6	#12				179	1434
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14	#12				179	1434
15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
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2	#12				179	1434
3	#12				179	1434
4	#12				179	1434
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14	#12				179	1434
15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
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2	#12				179	1434
3	#12				179	1434
4	#12				179	1434
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14	#12				179	1434
15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
1	#12				179	1434
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14	#12				179	1434
15	#12				179	1434
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17	#6				134	947
(96)-P1247-P1250						
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(96)-P1247-P1250						
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17	#6				134	947
(96)-P1247-P1250						
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17	#6				134	947
(96)-P1247-P1250						
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15	#12				179	1434
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(96)-P1247-P1250						
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14	#12				179	1434
15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
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15	#12				179	1434
16	#12				179	1434
17	#6				134	947
(96)-P1247-P1250						
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2	#12				179	1434
3	#12				179	1434
4	#12	</				

P1=P2=P4=P5=P51=P52=P69
P73=P77=P78=P92=P111
P119=P132=P133=P135=P136
P142

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 18 (cm)
1	Ø16	4	245	980	17640
2	Ø16	4	97	388	6984
3	Ø6	11	107	1177	21186

Pilares que terminan en
PLANTA BAJA
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero	Long. total (m)	Peso+10% (kg)	Total
PLANTA BAJA Pilares			
AH-500CN Ø6	1734,1	423	
Ø12	250,5	245	
Ø16	1745,9	3031	3699

P6=P37=P57

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	102	408	1224
3	Ø6	11	127	1397	4191

P8=P30=P34=P42=P45=P50
P53=P58=P59=P64=P65
P103=P104=P105=P106=P107
P110=P118=P121=P141

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 20 (cm)
1	Ø16	4	245	980	19600
2	Ø16	4	93	372	7440
3	Ø6	11	107	1177	23540

P12=P20=P116

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	107	428	1284
3	Ø6	11	127	1397	4191

P15=P129

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	11	117	1287	2574

P24=P26

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	210	840	1680
2	Ø16	4	97	388	776
3	Ø6	11	107	1177	2354

P40=P41=P49=P54

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	11	107	1177	2354

P56

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	11	107	1177	2354

P3=P76

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	11	117	1287	2574

P7=P36

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	11	127	1397	2794

P9=P10=P46

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	97	388	1164
3	Ø6	11	117	1287	3861

P13

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	102	408	1224
3	Ø6	11	117	1287	3861

P16=P17=P22=P39=P95=P96
P97=P98=P101=P117=P120
P124=P127=P128=P140=P145

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 16 (cm)
1	Ø16	4	245	980	15680
2	Ø16	4	93	372	5952
3	Ø6	11	107	1177	18832

P25

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	107	428	1284
3	Ø6	15	137	2055	6165

P43=P44=P72

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	97	388	1164
3	Ø6	15	117	1755	5265

P60=P61=P62=P63

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 4 (cm)
1	Ø16	4	245	980	3920
2	Ø16	4	102	408	1632
3	Ø6	11	107	1177	4708

P60=P61=P62=P63

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 4 (cm)
1	Ø16	4	245	980	3920
2	Ø16	4	102	408	1632
3	Ø6	11	107	1177	4708

P79

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	103	412	824
3	Ø6	11	127	1397	2794

P93

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	108	432	864
3	Ø6	11	117	1287	2574

P90

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	92	368	736
3	Ø6	11	117	1287	2574

P11

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	93	372	744
3	Ø6	11	117	1287	2574

P14=P23=P74=P91=P134

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 5 (cm)
1	Ø16	4	245	980	4900
2	Ø16	4	97	388	1940
3	Ø6	11	107	1177	5885

P21

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	117	1755	3510

P32

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	11	127	1397	2794

P47

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	127	1905	3810

P67

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	127	1905	3810

P87

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	15	117	1755	3510

P88

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	117	1755	3510

P108=P113

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	117	1755	3510

P109

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	92	368	736
3	Ø6	15	117	1755	3510

P112=P114=P122=P125
P126

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 5 (cm)
1	Ø16	4	245	980	4900
2	Ø16	4	97	388	1940
3	Ø6	15	117	1755	8775

P18=P19=P68

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	245	980	2940
2	Ø16	4	102	408	1224
3	Ø6	11	107	1177	3531

P27

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	127	1905	3810

P55

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	127	1905	3810

P67

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	127	1905	3810

P87

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	15	117	1755	3510

P88

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	117	1755	3510

P85

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	11	117	1287	2574

P109

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	92	368	736
3	Ø6	15	117	1755	3510

P112=P114=P122=P125
P126

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 5 (cm)
1	Ø16	4	245	980	4900
2	Ø16	4	97	388	1940
3	Ø6	15	117	1755	8775

P48

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 5 (cm)
1	Ø16	4	245	980	4900
2	Ø16	4	97	388	1940
3	Ø16	4	107	428	2140
4	Ø16	4	97	388	1940
5	Ø6	15	137	2055	10275

P66

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø16	4	97	388	776
4	Ø16	4	87	348	696
5	Ø6	15	137	2055	4110

P87

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	15	117	1755	3510

P87

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	102	408	816
3	Ø6	15	117	1755	3510

P108=P113

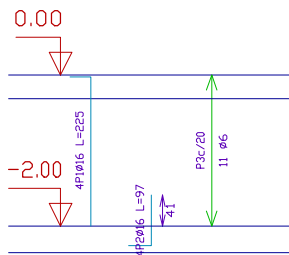
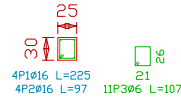
Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	245	980	1960
2	Ø16	4	97	388	776
3	Ø6	15	117	1755	3510

P109

Pos.	Diám.	No.	Long. (cm)</
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P28

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø16	4	225	900
2	Ø16	4	97	388
3	Ø6	11	107	1177



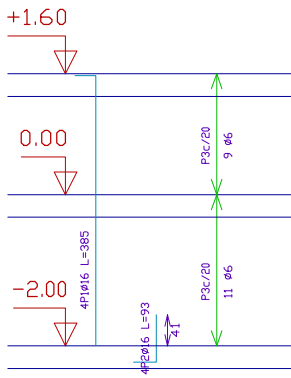
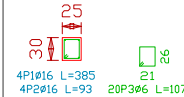
Pilares que terminan en
RAMPA

Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero RAMPA Pilares	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	321.4	78	
Ø12	12.9	13	
Ø16	289.1	502	593

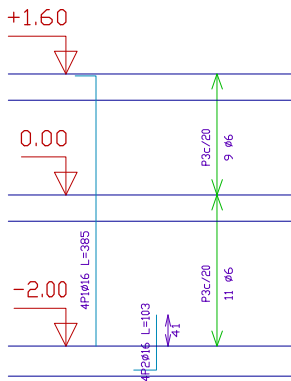
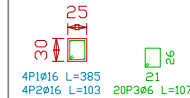
P31=P35=P38=P70

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 4 (cm)
1	Ø16	4	385	1540	6160
2	Ø16	4	93	372	1488
3	Ø6	20	107	2140	8560



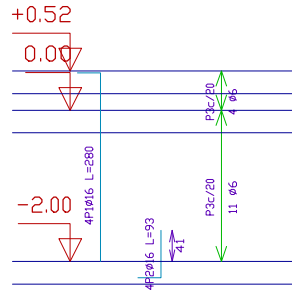
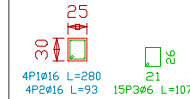
P81=P100

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	385	1540	3080
2	Ø16	4	103	412	824
3	Ø6	20	107	2140	4280



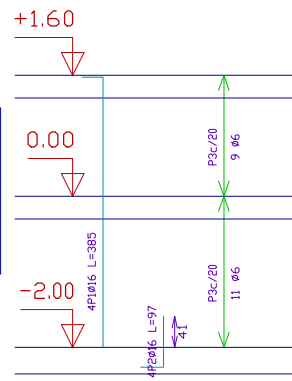
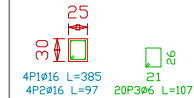
P29

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø16	4	280	1120
2	Ø16	4	93	372
3	Ø6	15	107	1605



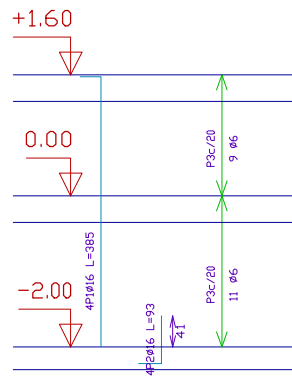
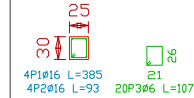
P33=P71

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 2 (cm)
1	Ø16	4	385	1540	3080
2	Ø16	4	97	388	776
3	Ø6	20	107	2140	4280



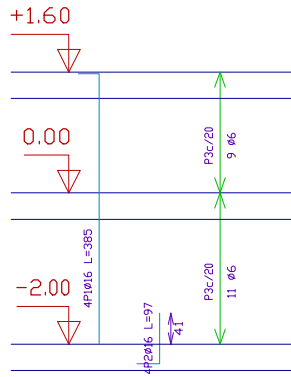
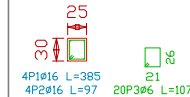
P94=P144=P146

Pos.	Diám.	No.	Long. (cm)	Total (cm)	x 3 (cm)
1	Ø16	4	385	1540	4620
2	Ø16	4	93	372	1116
3	Ø6	20	107	2140	6420



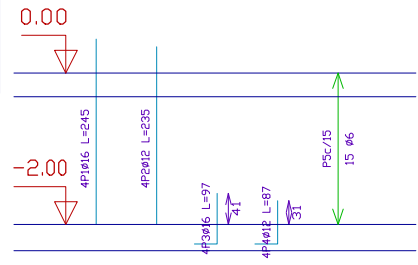
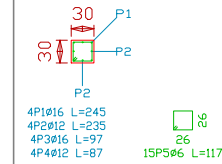
P99

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø16	4	385	1540
2	Ø16	4	97	388
3	Ø6	20	107	2140



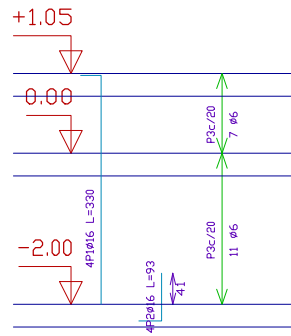
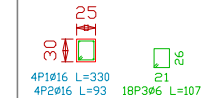
P86

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø16	4	245	980
2	Ø12	4	235	940
3	Ø16	4	97	388
4	Ø12	4	87	348
5	Ø6	15	117	1755



P147

Pos.	Diám.	No.	Long. (cm)	Total (cm)
1	Ø16	4	330	1320
2	Ø16	4	93	372
3	Ø6	18	107	1926



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CONTENIDO:

DESPIECE DE PILARES

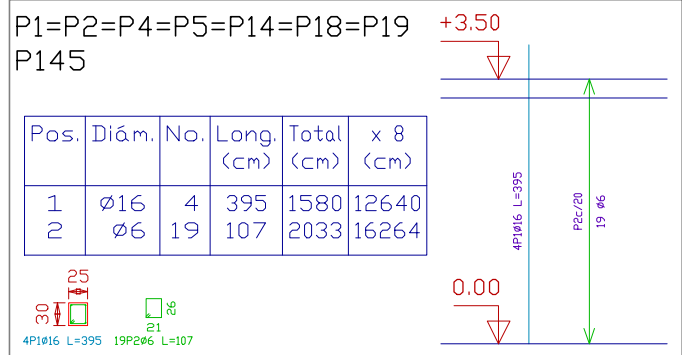
UNIVERSITARIO: CRISTHIAN ABEL QUIROGA VELIZ

ESCALA: 1:100

LAMINA: 13

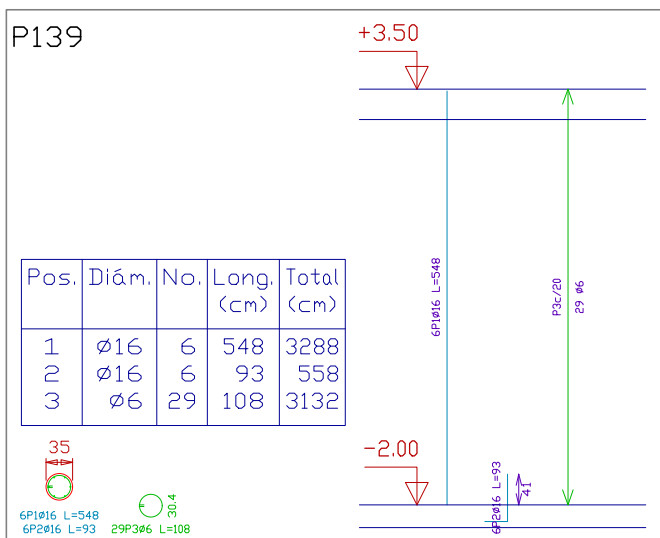
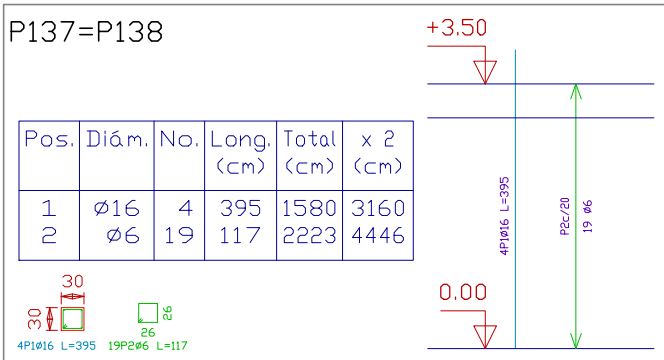
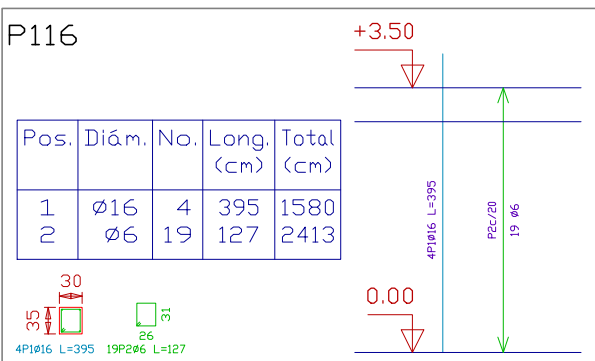
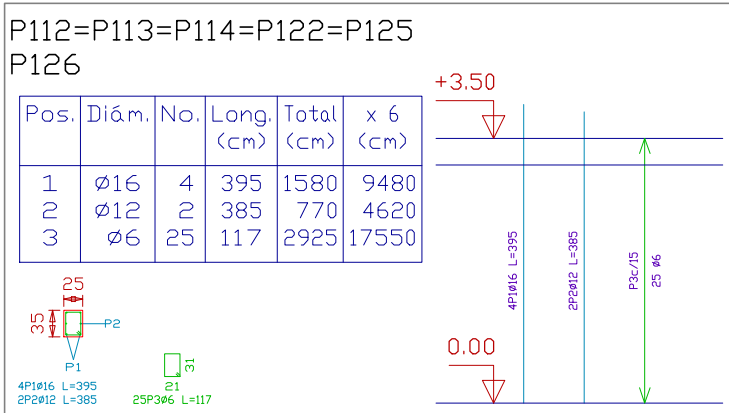
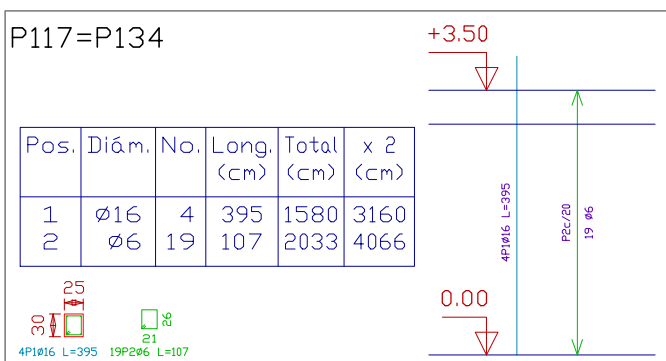
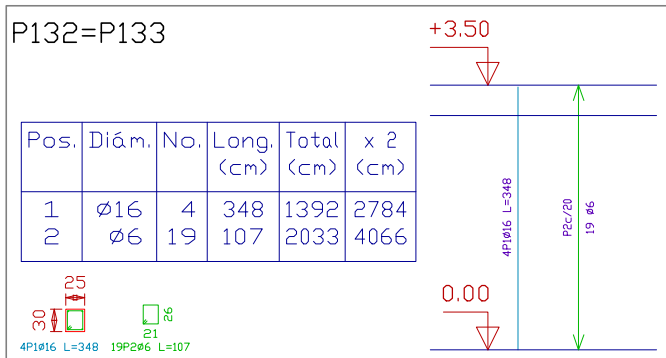
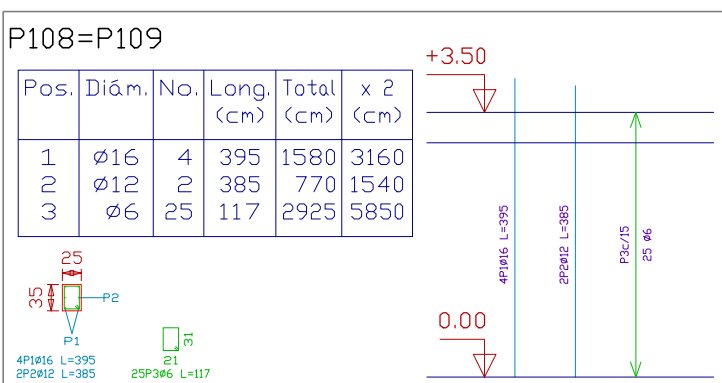
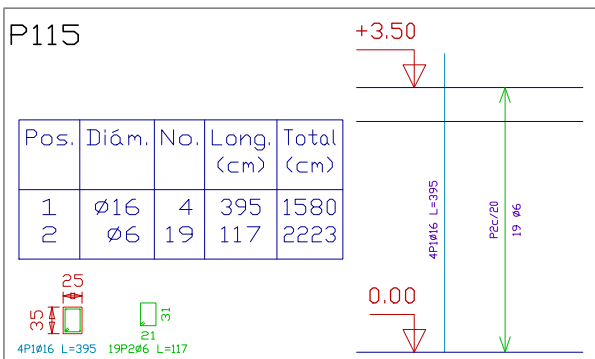
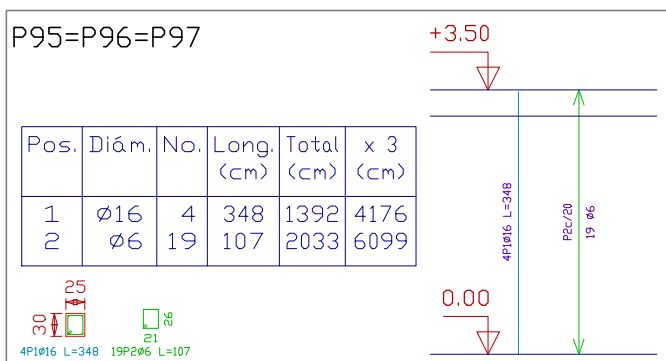
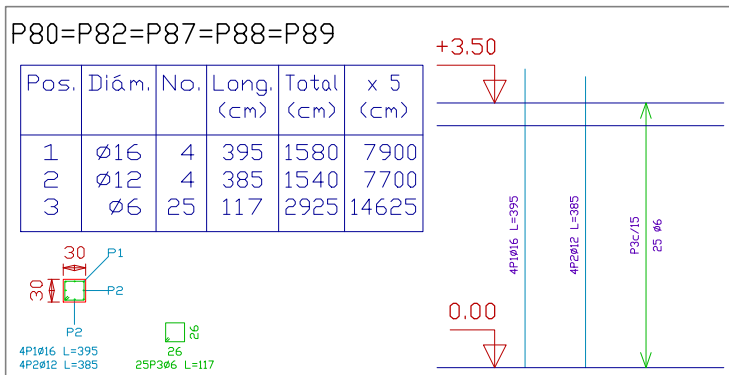
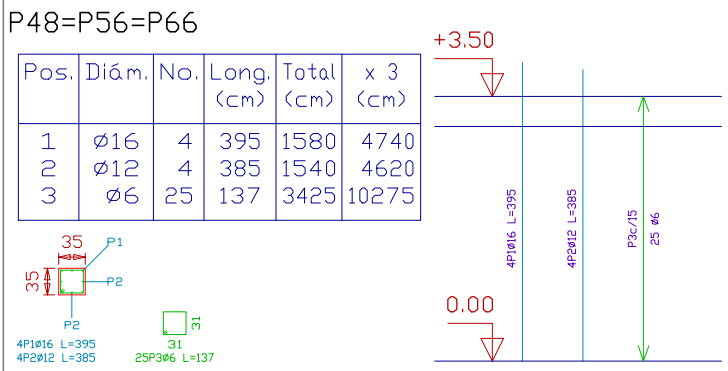
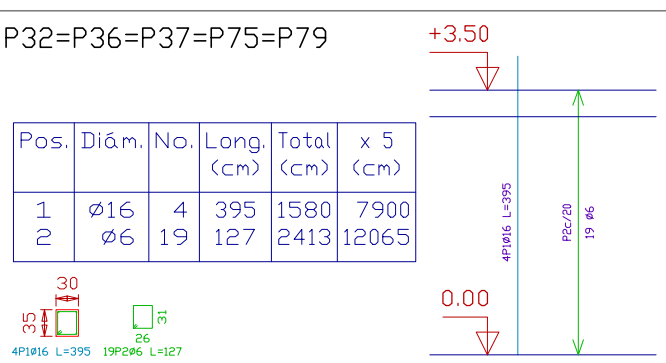
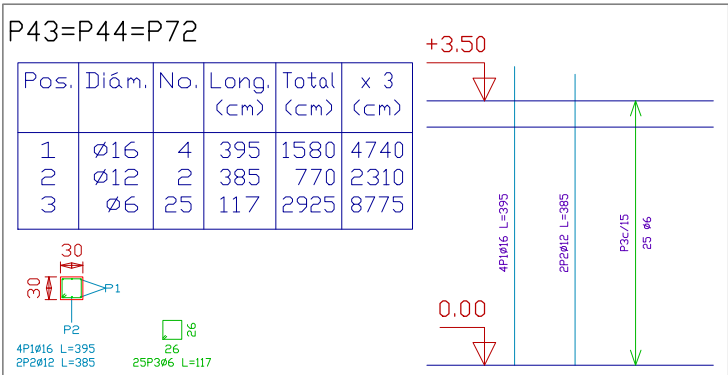
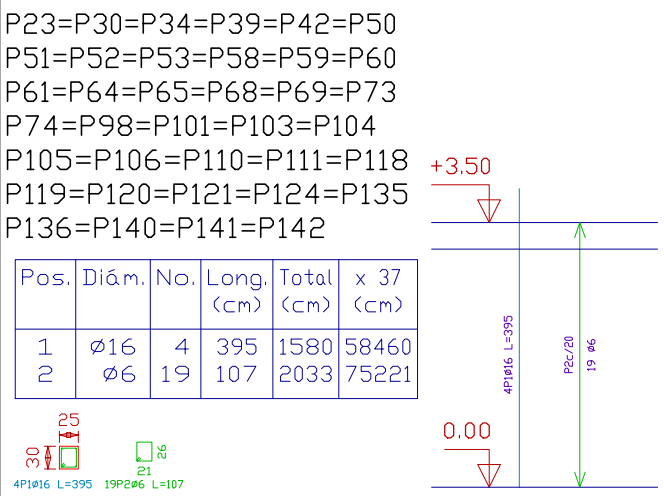
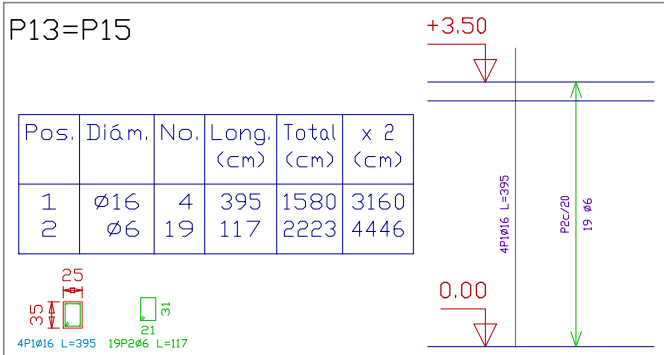
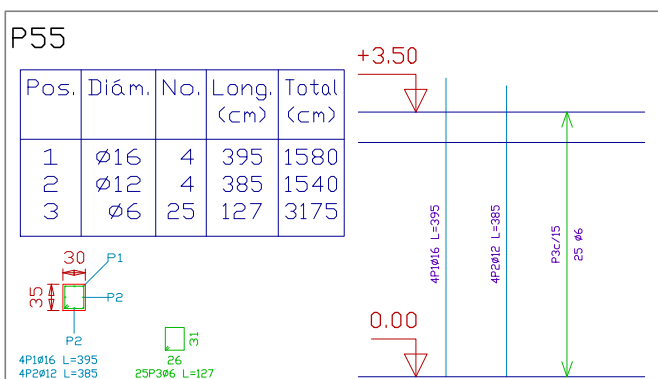
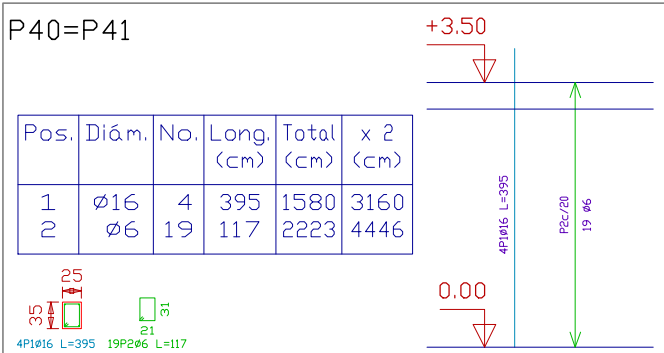
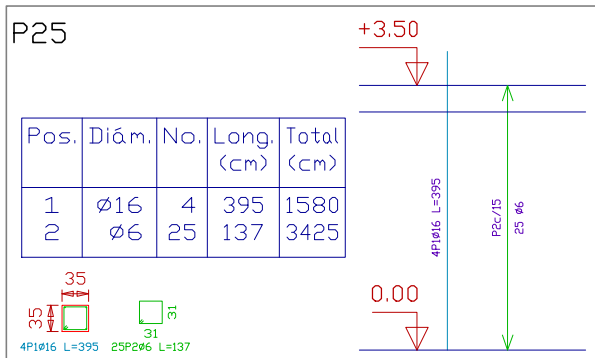
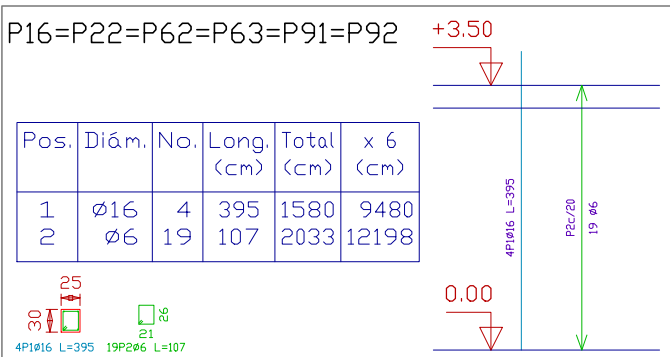
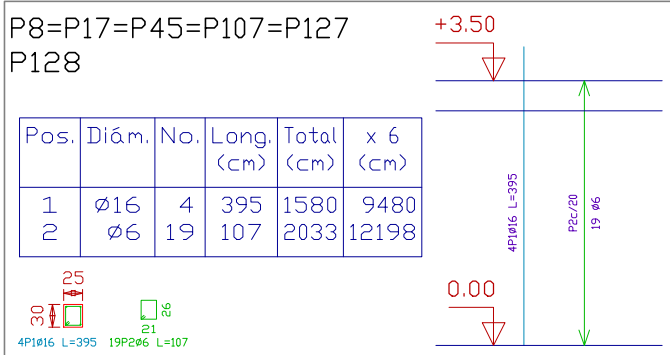
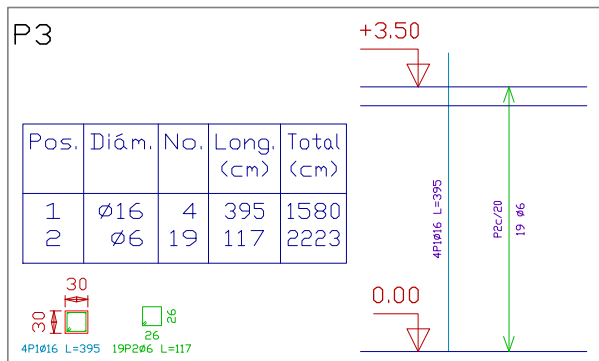
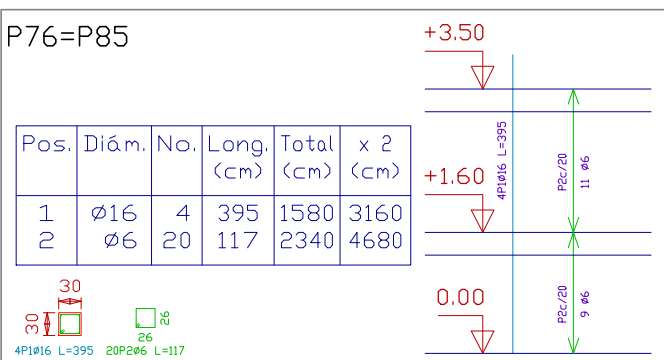
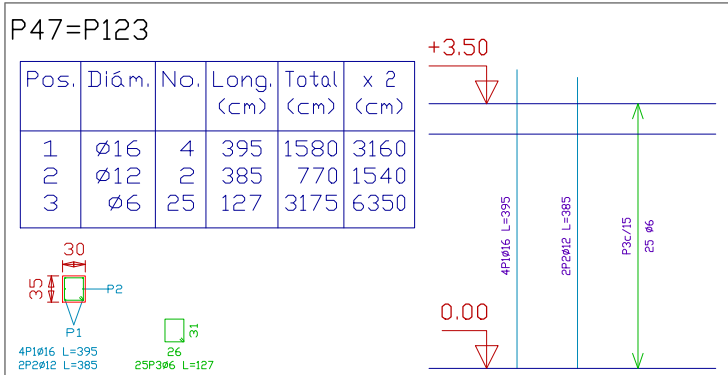
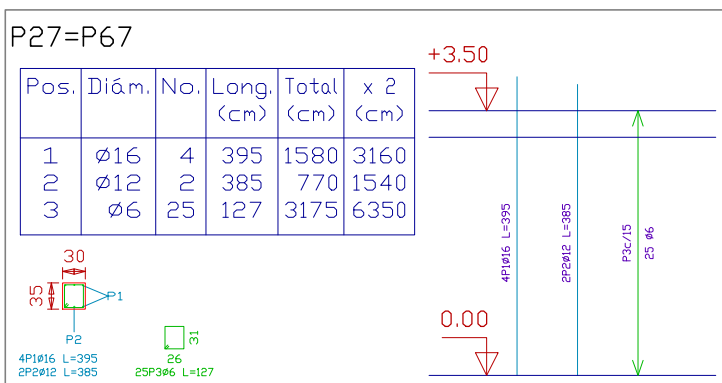
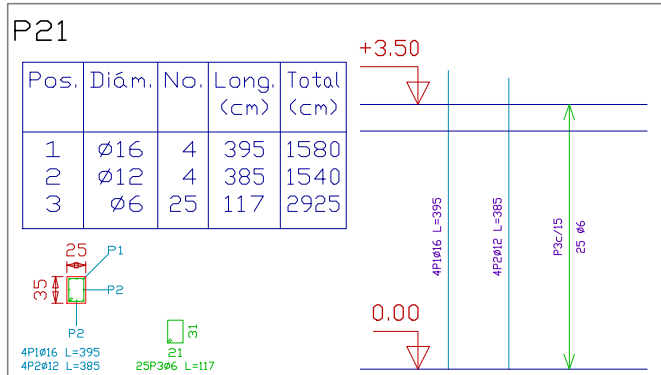
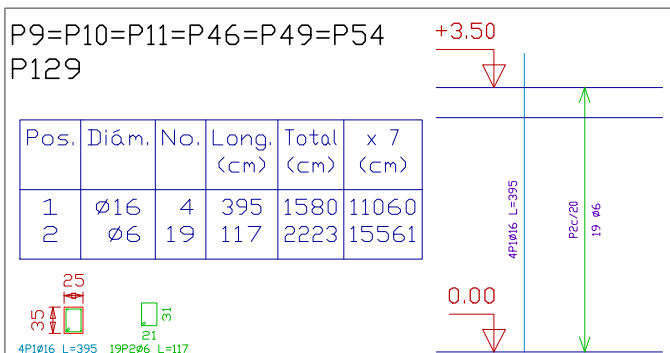
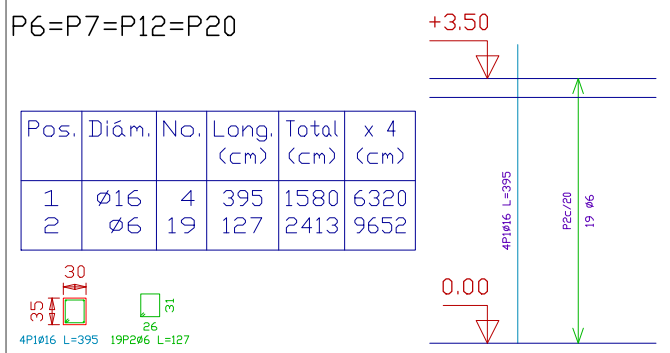
MATERIA: PROYECTO DE INGENIERÍA CIVIL II

FECHA: JULIO 2021



Pilares que terminan en
PRIMER PISO +4.00
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero		Long. total (m)	Peso+10% (kg)	Total
PRIMER PISO +4.00				
Pilares				
AH-500CN		Ø6	2971.9	725
		Ø12	315.7	308
		Ø16	2019.9	3507
				4540



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CONTENIDO:
DESPIECE DE PILARES

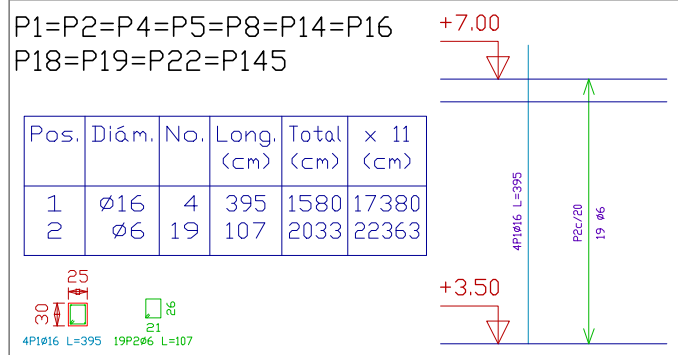
UNIVERSITARIO:
CRISTHIAN ABEL QUIROGA VELIZ

ESCALA:
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LAMINA:
14

MATERIA:
PROYECTO DE INGENIERÍA CIVIL II

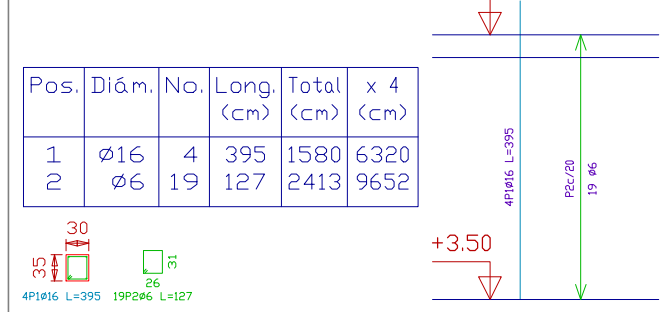
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JULIO 2021



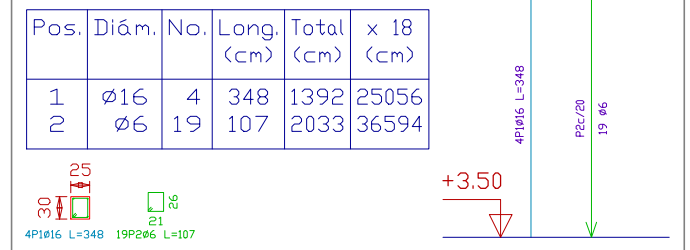
Pilares que terminan en
SEGUNDO PISO +7.50
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero SEGUNDO PISO +7.50 Pilares		Long. total (m)	Peso+10% (kg)	Total
AH-500CN	96	2774.8	677	
Ø12	185.1	181		
Ø16	1939.2	3367	4225	

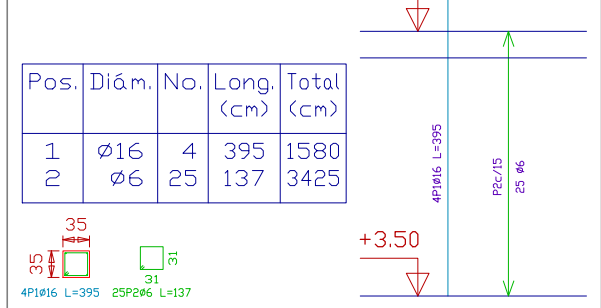
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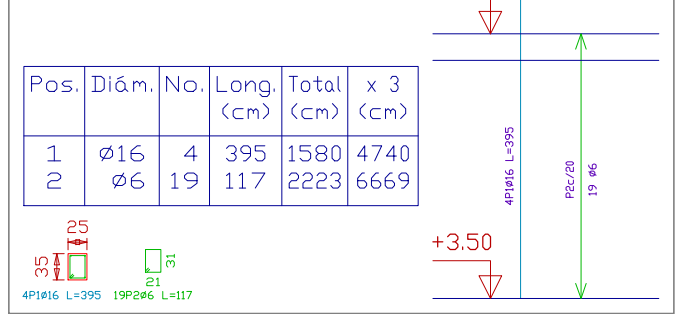
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P140=P141=P142



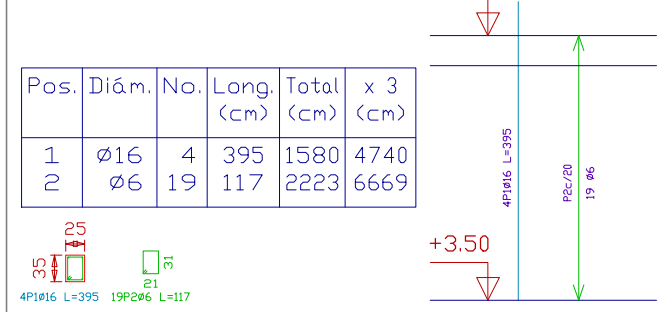
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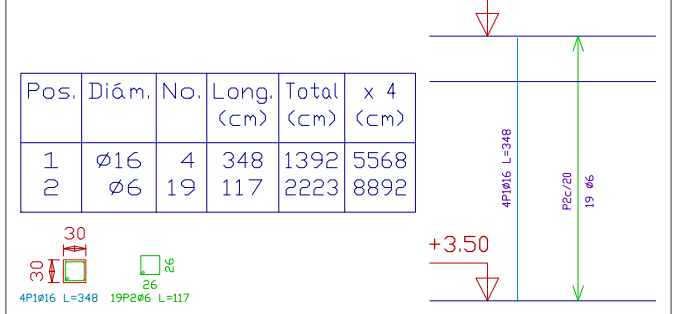
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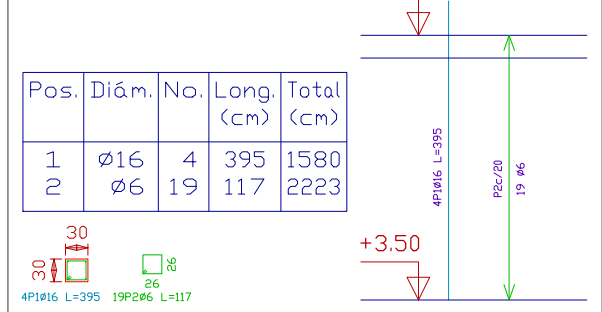
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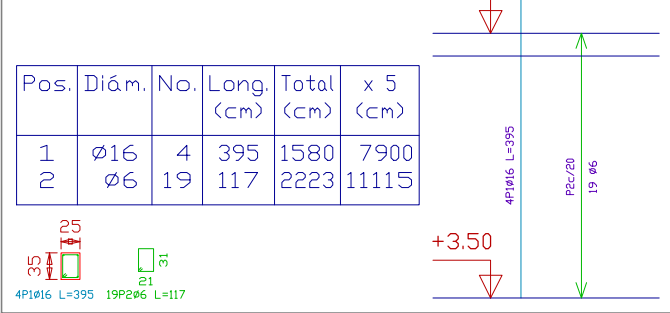
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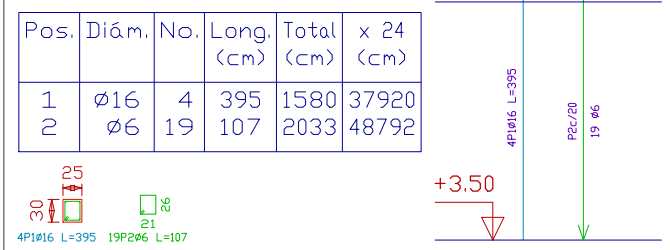
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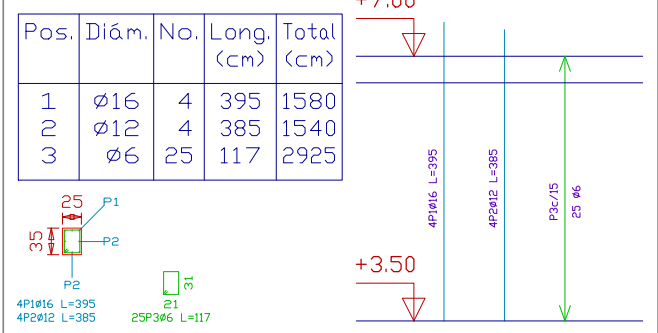
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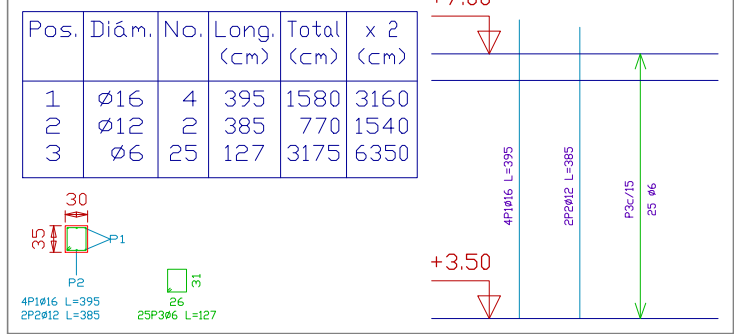
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P60=P61=P62=P63=P64=P65
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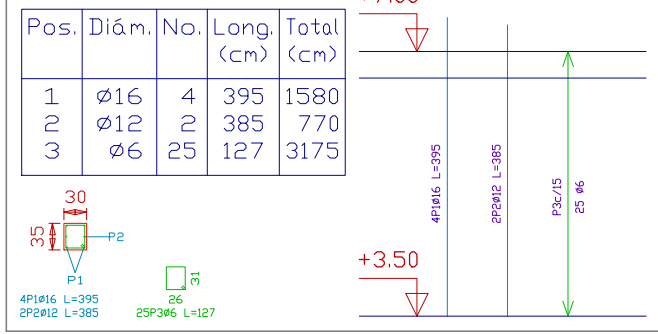
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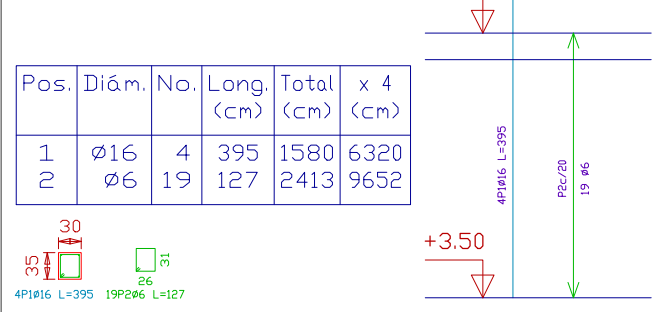
P27=P67



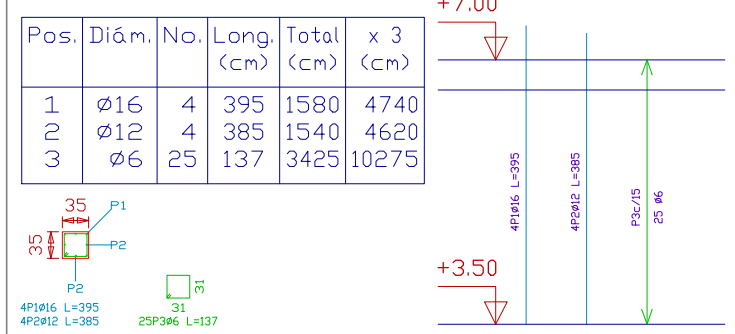
P47



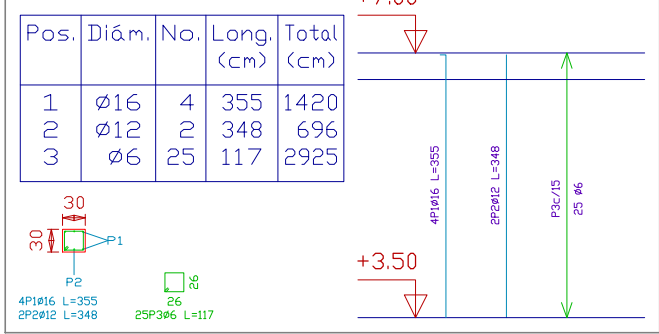
P32=P36=P37=P75



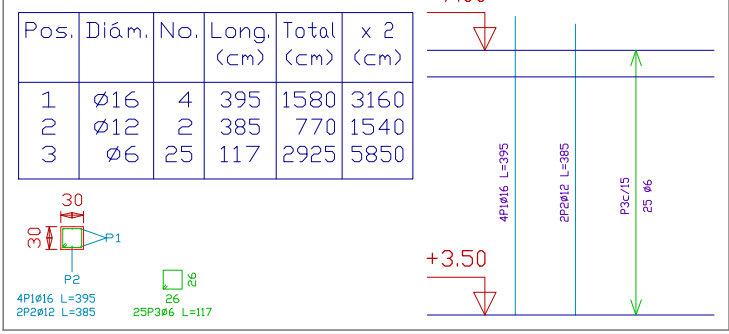
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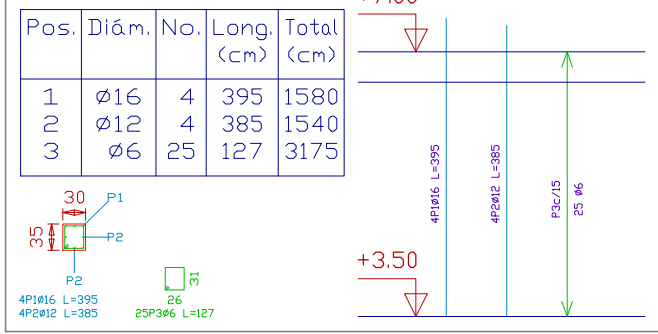
P72



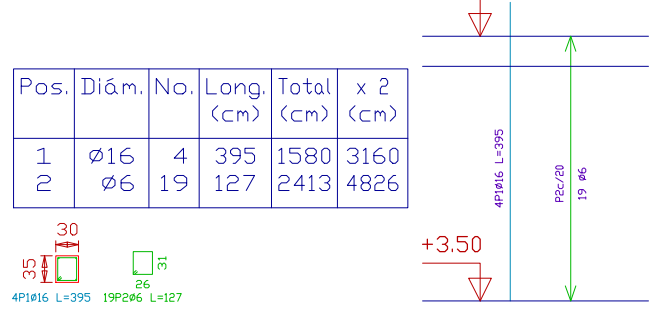
P43=P44



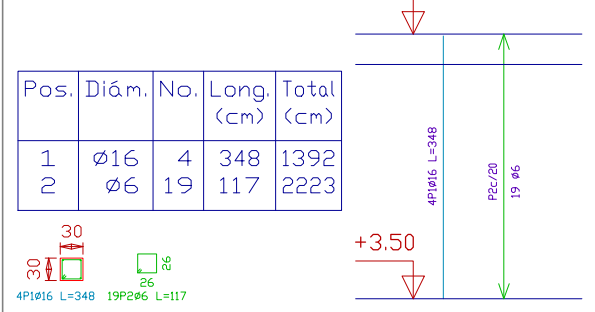
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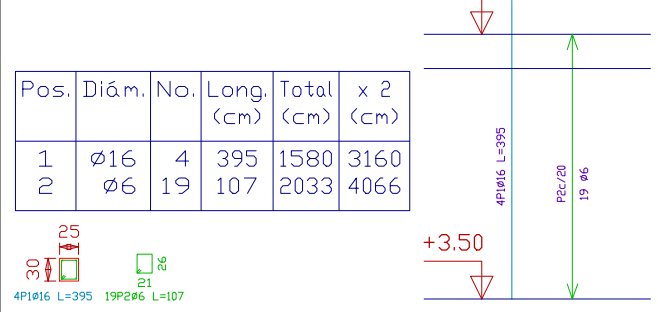
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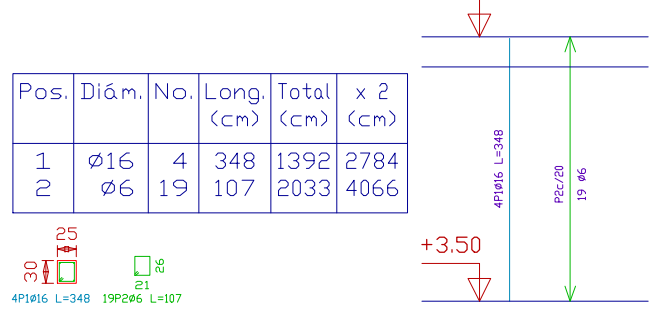
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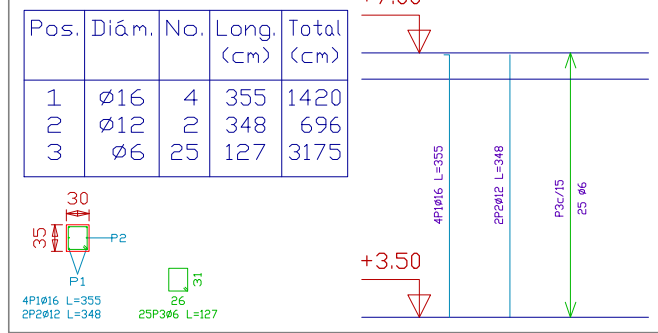
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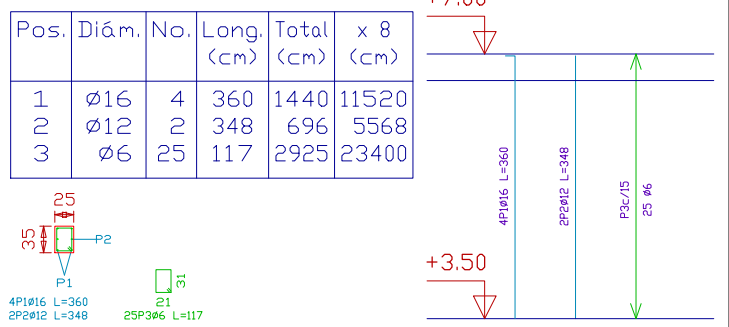
P106=P120



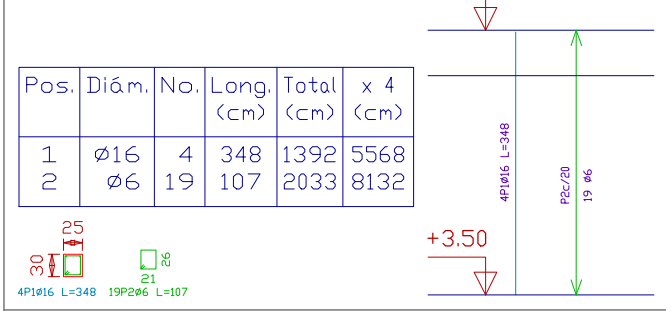
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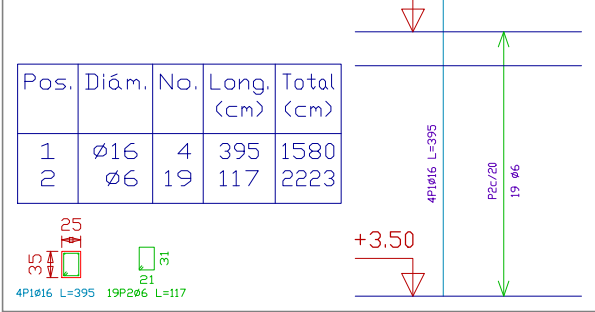
P108=P109=P112=P113=P114
P122=P125=P126



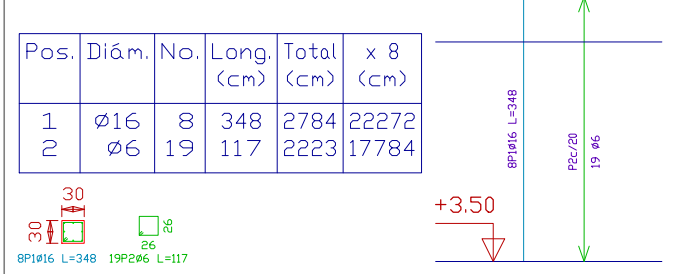
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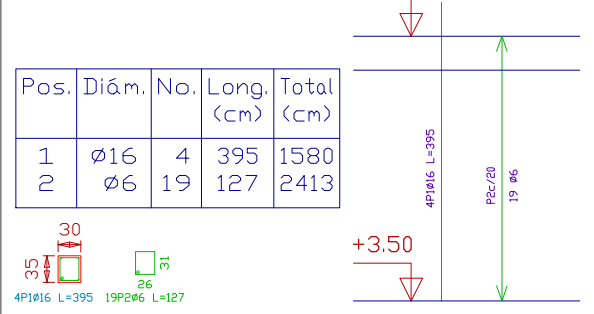
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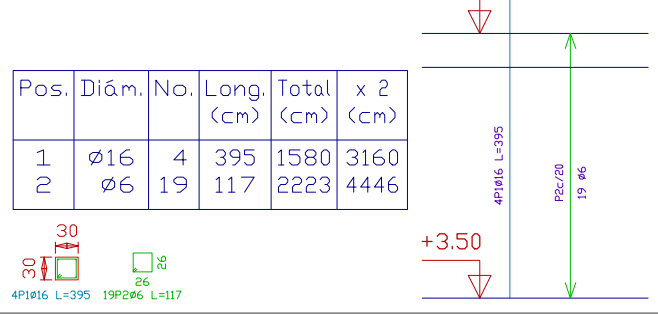
P80=P82=P83=P84=P86=P87
P88=P89



P116



P137=P138



UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO"
FACULTAD DE CIENCIAS Y TECNOLOGÍA



CONTENIDO:

DESPIECE DE PILARES

UNIVERSITARIO:

CRISTHIAN ABEL QUIROGA VELIZ

ESCALA:

1:100

LAMINA:

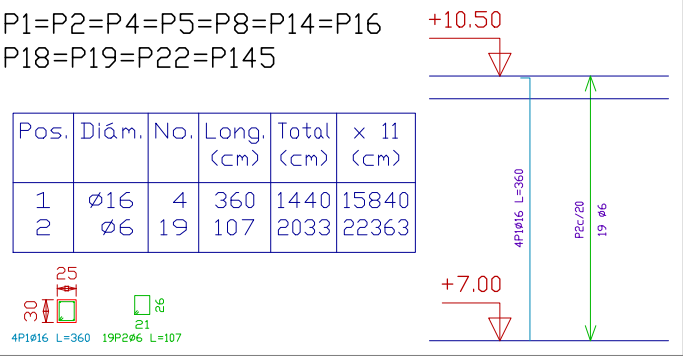
15

MATERIA:

PROYECTO DE INGENIERÍA CIVIL II

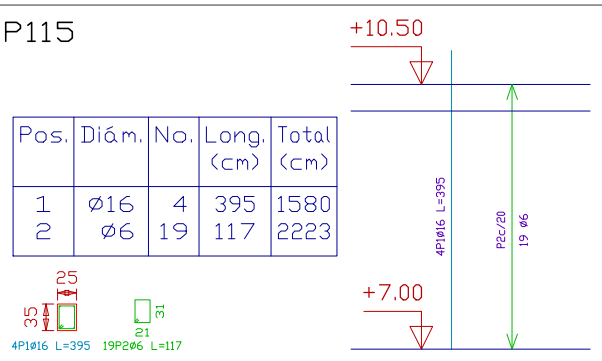
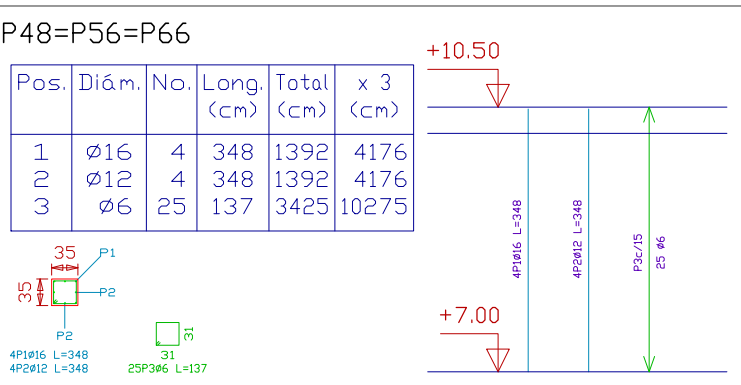
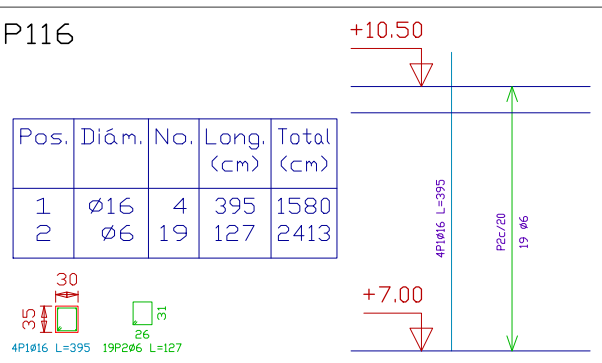
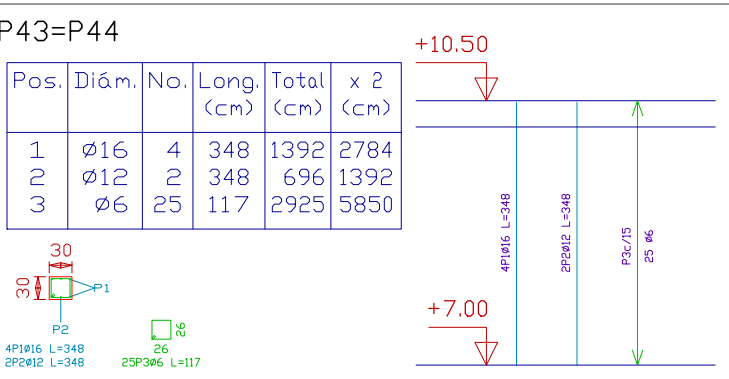
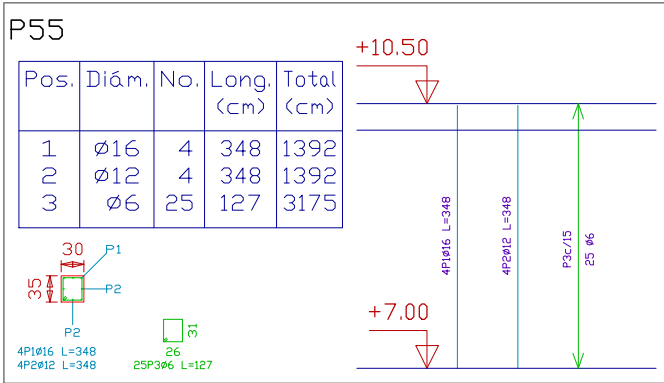
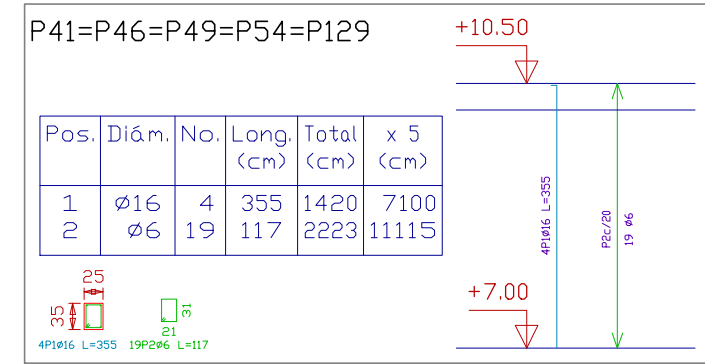
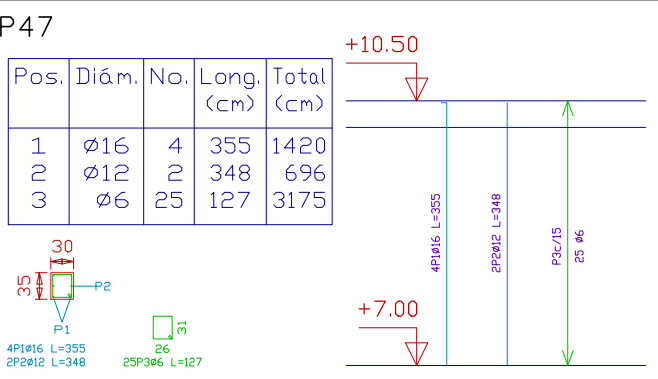
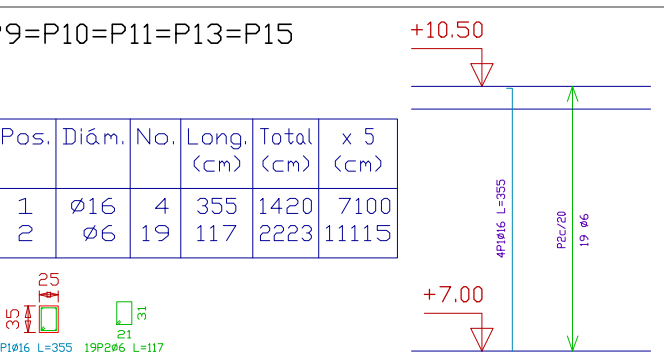
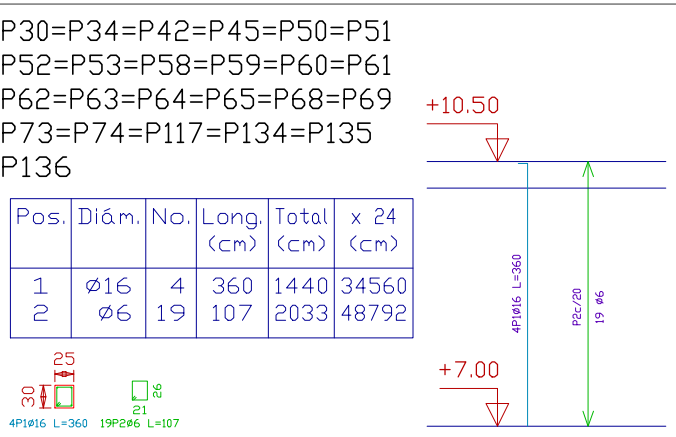
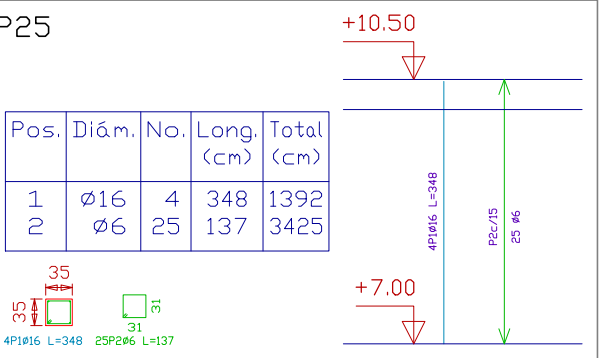
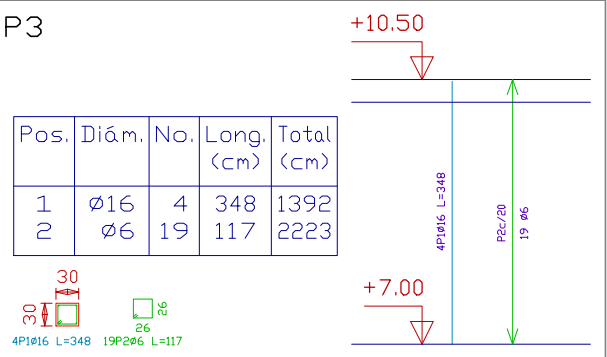
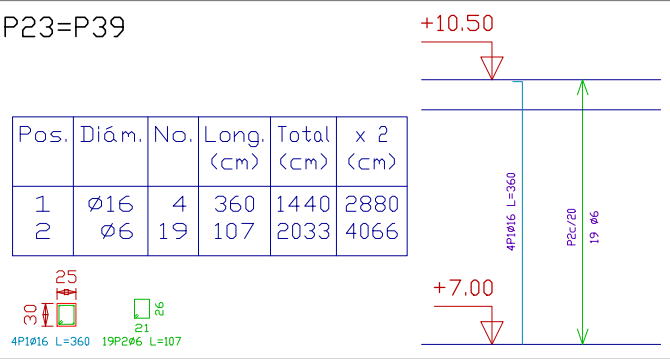
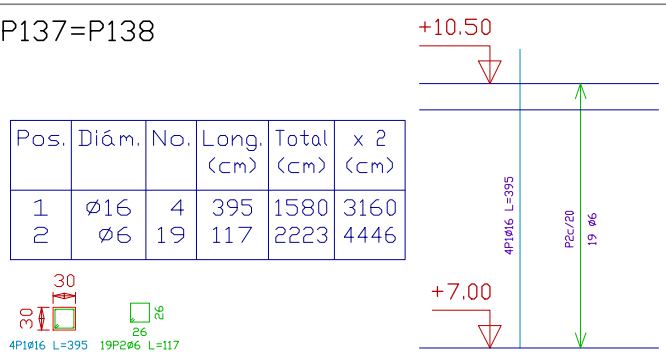
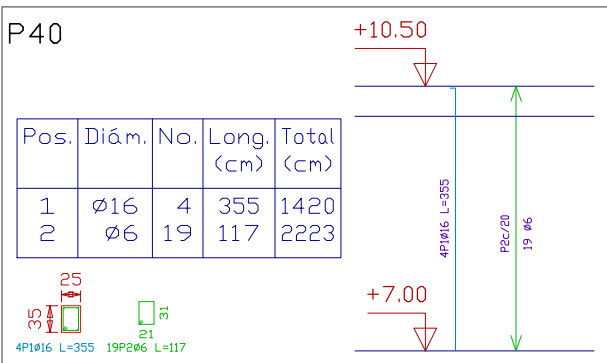
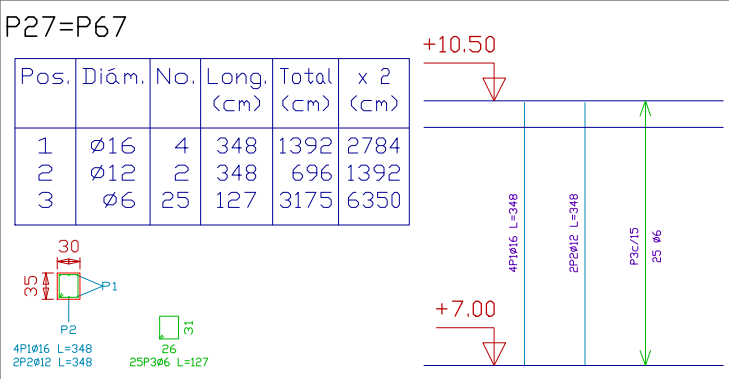
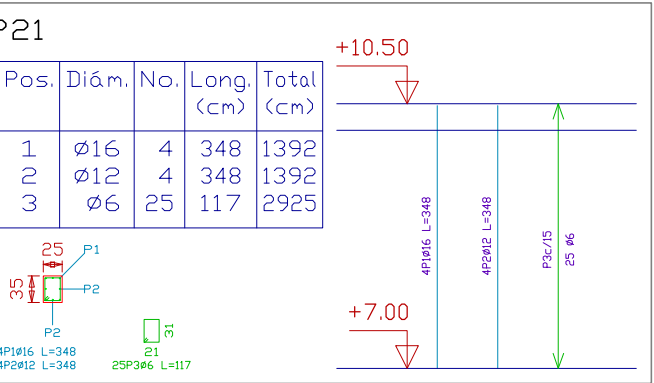
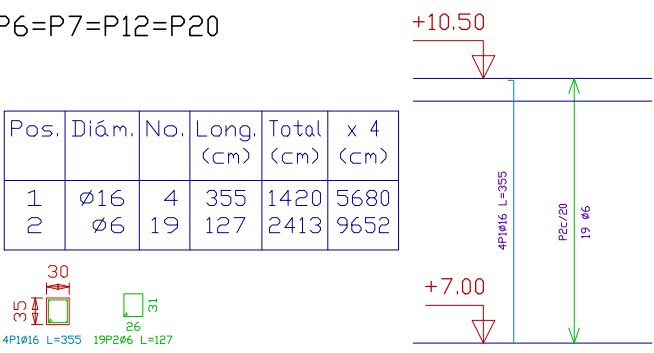
FECHA:

JULIO 2021



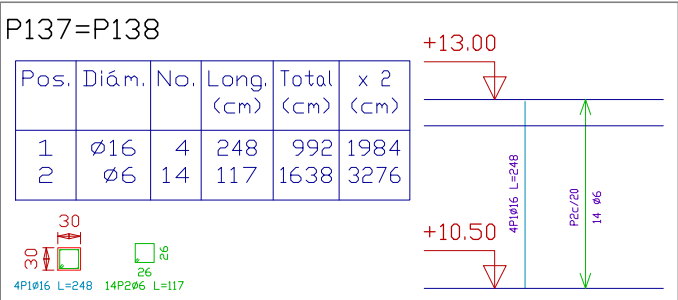
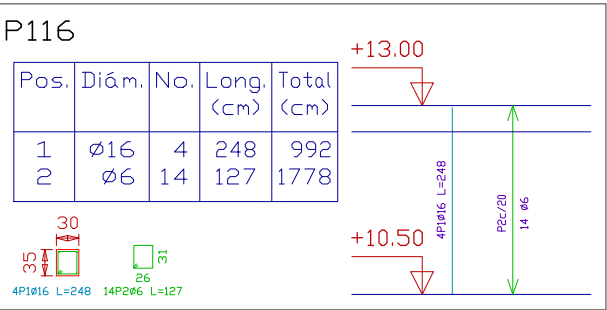
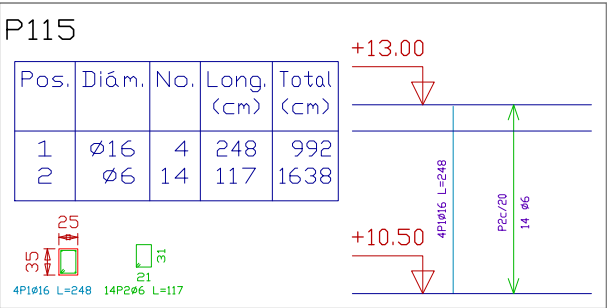
Pilares que terminan en
CUBIERTA +11.00
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero CUBIERTA +11.00 Pilares		Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø6	1702.8	416	
	Ø12	104.4	102	
	Ø16	1061.5	1843	2361



Pilares que terminan en
CUBIERTA DE GRADAS
Hormigón: H-25 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

Resumen Acero CUBIERTA DE GRADAS Pilares		Long. total (m)	Peso+10% (kg)	Total
AH-500CN	Ø6	66.9	16	
	Ø16	39.7	69	85



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FACULTAD DE CIENCIAS Y TECNOLOGÍA



CONTENIDO:
DESPIECE DE PILARES

UNIVERSITARIO:
CRISTHIAN ABEL QUIROGA VELIZ

ESCALA:
1:100

LAMINA:
16

MATERIA:
PROYECTO DE INGENIERÍA CIVIL II

FECHA:
JULIO 2021