

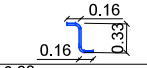
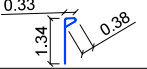
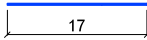
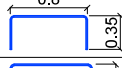
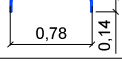
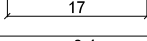
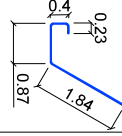
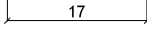
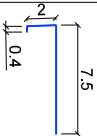
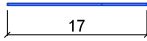
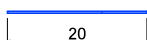
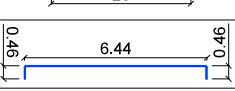
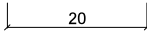
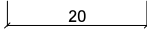
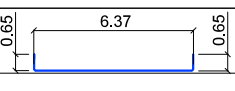
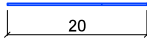
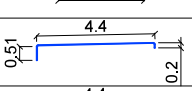
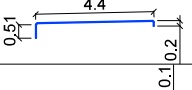
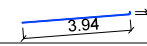
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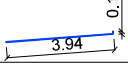
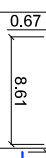
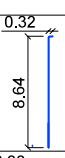
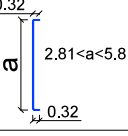
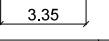
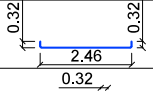
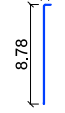
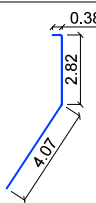
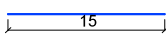
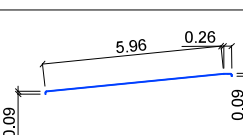
DESPIECES DE ARMADO

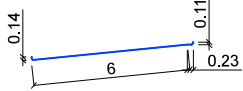
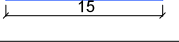
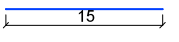
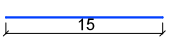


Francisco Simón Marco Espinosa

DESPIECE ESTRIBO SUR

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
1	20		3	2.60	37.80	2.47	93.22
2	20		63	0.65	40.95	2.47	100.99
3	16		63	2.05	129.15	1.58	203.84
4	12		12	12.60	151.20	0.89	134.24
5	16		63	1.79	112.77	1.58	177.99
6	16		9	17.00	153.00	1.58	241.49
7A	12		12	1.50	18	0.89	15.98
7B	12		12	1.06	12.72	0.89	11.29
8	16		10	17.00	170.00	1.58	268.32
9	20		140	3.34	467.6	2.47	1153.17
10	16		35	17.00	595.00	1.58	939.11
11	12		114	9.90	1128.60	0.89	1001.99
12	16		29	17.00	493.00	1.58	778.12
13	20		140	6.75	945.00	2.47	2330.51
11A	12		114	2.39	272.46	0.89	241.89
13A	20		140	2.39	334.6	2.47	825.17
14	20		29	20.00	580.00	2.47	1430.37
15	20		100	7.36	736.00	2.47	1815.09
16	16		4	20.00	80.00	1.58	126.27
17	16		4	20.00	80.00	1.58	126.27
18	20		223	7.67	1710.41	2.47	4218.13
19	20		29	20.00	580.00	2.47	1430.37
20	20		16	3.50	56.00	2.47	138.10
21	20		34	5.31	180.54	2.47	445.24
22	20		30	5.31	159.30	2.47	392.86
23	12		30	4.04	121.20	0.89	107.60

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
24	12		34	4.04	137.36	0.89	121.95
25	20		6	3.00	18.00	2.47	44.39
26	16		80	7.00	560.00	1.58	883.87
27	12		96	8.97	861.12	0.89	764.51
28	16		80	3.50	280.00	1.58	441.93
29	20		54	9.28	501.12	2.47	1235.84
27A	12		96	2.39	229.44	2.47	203.70
29A	20		54	2.39	129.06	2.47	318.28
30	20		8	5.09	40.72	2.47	100.42
31	20		8	8.96	71.68	2.47	176.77
32	20		28	4.31	120.68	2.47	297.62
33	20		8	3.35	26.8	2.47	66.09
34	16		88	3.10	272.80	1.58	430.57
35	20		40	9.10	364.00	2.47	897.68
36	20		8	7.27	58.16	2.47	897.68
31A	20		8	2.39	19.12	2.47	47.15
33A	20		8	2.39	19.12	2.47	47.15
35A	20		40	2.39	95.60	2.47	235.76
37	12		29	15.00	435.00	0.89	386.20
38	12		75	6.40	480.00	0.89	426.15

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
39	20		75	6.48	486.00	2.47	1198.55
40	12		29	15.00	435.00	0.89	386.20
41	16		2	15.00	30.00	1.58	47.35
42	16		2	15.00	30.00	1.58	47.35

TOTAL 27697 kg

CUADRO DE MATERIALES

MATERIAL	ELEMENTO ESTRUCTURAL	CLASE	NIVEL DE CONTROL	COEFICIENTE DE SEGURIDAD
ACERO	Zapata	B400S	Normal	1.15
	Muros	B400S	Normal	1.15
	Losa de transición	B400S	Normal	1.15

Recubrimiento nominal del acero: r_{nom} = 35 mm

DIÁMETROS DE DOBLADO (AN/UNE-EN 1992-1-1)

ARMADURA	ØMANDRIL	RADIO DE DOBLADO
Ø12	48 mm	24 mm
Ø16	64 mm	32 mm
Ø20	80 mm	40 mm

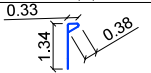
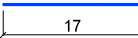
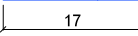
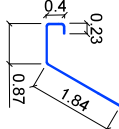
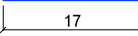
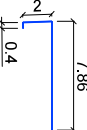
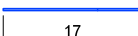
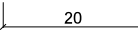
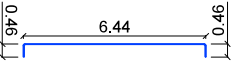
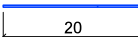
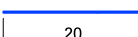
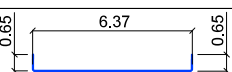
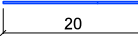
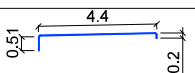
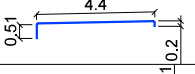
Longitud de anclaje y solape

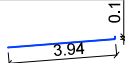
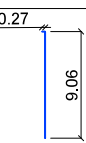
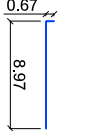
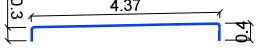
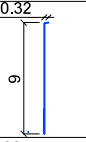
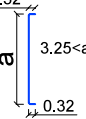
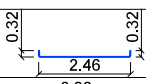
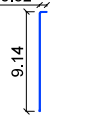
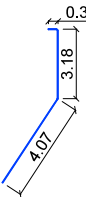
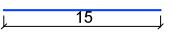
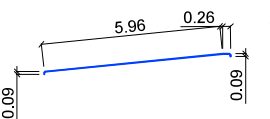
ID	Ø(mm)	Lb (m)	L0 (m)
3	16	0.35	--
5	16	0.35	--
9	20	0.55	--
11	12	0.55	1.1
13	20	0.55	1.1
22	20	0.50	--
24	12	0.40	--
27	12	0.55	1.1
29	20	0.55	1.1
31	20	0.55	1.1
33	20	0.55	1.1
35	20	0.55	1.1

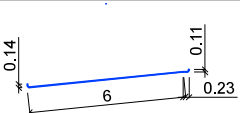
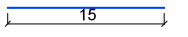
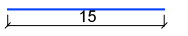
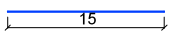
Notas

(1) Las armaduras cuya longitud de anclaje no queda indicada en la tabla superior, queda indicada gráficamente en la tabla de despiece

DESPIECE ESTRIBO NORTE

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
1	20		3	2.60	37.80	2.47	93.22
2	20		63	0.65	40.95	2.47	100.99
3	16		63	2.05	129.15	1.58	203.84
4	12		12	12.60	151.20	0.89	134.24
5	16		63	1.79	112.77	1.58	177.99
6	16		9	17.00	153.00	1.58	241.49
7A	12		12	1.50	18	0.89	15.98
7B	12		12	1.06	12.72	0.89	11.29
8	16		10	17.00	170.00	1.58	268.32
9	20		140	3.34	467.6	2.47	1153.17
10	16		37	17.00	629.00	1.58	992.77
11	12		114	10.26	1169.64	0.89	1038.42
12	16		30	17.00	510.00	1.58	804.95
13	20		140	7.11	995.40	2.47	2454.81
11A	12		114	2.39	272.46	0.89	241.89
13A	20		140	2.39	334.6	2.47	825.17
14	20		29	20.00	580.00	2.47	1430.37
15	20		100	7.36	736.00	2.47	1815.09
16	16		4	20.00	80.00	1.58	126.27
17	16		4	20.00	80.00	1.58	126.27
18	20		223	7.67	1710.41	2.47	4218.13
19	20		29	20.00	580.00	2.47	1430.37
20	20		16	3.50	56.00	2.47	138.10
21	20		34	5.31	180.54	2.47	445.24
22	20		30	5.31	159.30	2.47	392.86
23	12		30	4.04	121.20	0.89	107.60

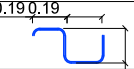
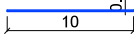
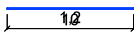
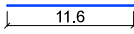
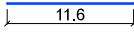
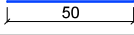
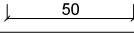
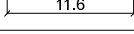
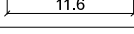
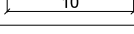
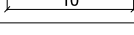
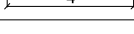
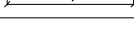
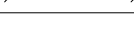
ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
24	12		34	4.04	137.36	0.89	121.95
25	20		6	3.00	18.00	2.47	44.39
26	16		82	7.00	574.00	1.58	905.96
27	12		96	9.33	895.68	0.89	795.20
28	16		82	3.50	287.00	1.58	452.98
29	20		54	9.64	520.56	2.47	1283.78
27A	12		96	2.39	229.44	2.47	203.70
29A	20		54	2.39	129.06	2.47	318.28
30	20		8	5.09	40.72	2.47	100.42
31	20		8	9.32	74.56	2.47	183.88
32	20		28	4.75	133.00	2.47	328.00
33	20		8	3.35	26.8	2.47	66.09
34	16		88	3.10	272.80	1.58	430.57
35	20		40	9.46	378.40	2.47	933.19
36	20		8	7.63	61.04	2.47	150.53
31A	20		8	2.39	19.12	2.47	47.15
33A	20		8	2.39	19.12	2.47	47.15
35A	20		40	2.39	95.60	2.47	235.76
37	12		29	15.00	435.00	0.89	386.20
38	12		75	6.40	480.00	0.89	426.15

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
39	20		75	6.48	486.00	2.47	1198.55
40	12		29	15.00	435.00	0.89	386.20
41	16		2	15.00	30.00	1.58	47.35
42	16		2	15.00	30.00	1.58	47.35

TOTAL28130 kg

CUADRO DE MATERIALES				
MATERIAL	ELEMENTO ESTRUCTURAL	CLASE	NIVEL DE CONTROL	COEFICIENTE DE SEGURIDAD
ACERO	Zapata	B400S	Normal	1.15
	Muros	B400S	Normal	1.15
	Losa de transición	B400S	Normal	1.15
Recubrimiento nominal del acero: $r_{nom} = 35 \text{ mm}$				
DIÁMETROS DE DOBLADO (AN/UNE-EN 1992-1-1)				
ARMADURA	ØMANDRIL	RADIO DE DOBLADO		
Ø12	48 mm	24 mm		
Ø16	64 mm	32 mm		
Ø20	80 mm	40 mm		
Longitud de anclaje y solape				
ID	Ø(mm)	Lb (m)	L0 (m)	
3	16	0.35	--	
5	16	0.35	--	
9	20	0.55	--	
11	12	0.55	1.1	
13	20	0.55	1.1	
22	20	0.50	—	
24	12	0.40	—	
27	12	0.55	1.1	
29	20	0.55	1.1	
31	20	0.55	1.1	
33	20	0.55	1.1	
35	20	0.55	1.1	
Notas				
(1) Las armaduras cuya longitud de anclaje no queda indicada en la tabla superior, queda indicada gráficamente en la tabla de despiece				

DESPIECE LOSA ESTRUCTURAL

ID	Ø(mm)	Forma (m) (Sin escala)	Nº de piezas	L(m)	L total (m)	Peso (kg/m)	Peso total (kg)
1	8		58	148	8584.00	0.39	3387.11
2	20		166	12.4	2058.40	2.47	5076.32
3	20		94	12.4	1165.60	2.47	2874.54
4	20		168	11.6	1948.80	2.47	4806.03
5	20		80	11.6	928.00	2.47	2288.59
6	20		313	52.4	16401.20	2.47	40447.82
7	20		58	52.4	3039.20	2.47	7495.12
8	20		116	11.6	1345.60	2.47	3318.45
9	20		200	11.6	2320.00	2.47	5721.47
10	20		116	12.4	1686.40	2.47	4158.92
11	20		64	12.4	793.60	2.47	1957.14
12	20		292	4	1168.00	2.47	2880.46
13	20		160	4	640.00	2.47	1578.34
14	20		40	52.4	2096.00	2.47	5169.05
15	20		32	52.4	1676.80	2.47	4135.24
16	20		500	4	2000	2.47	4932.30
17	20		400	4	1600	2.47	3945.84

TOTAL104173 kg

CUADRO DE MATERIALES

MATERIAL	ELEMENTO ESTRUCTURAL	CLASE	NIVEL DE CONTROL	COEFICIENTE DE SEGURIDAD
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ACEROLosaB500SNormal1.15

DIÁMETROS DE DOBLADO (AN/UNE-EN 1992-1-1)

ARMADURA	ØMANDRIL	RADIO DE DOBLADO
Ø8	80 mm	40 mm

Longitud de anclaje y solape

ID	Ø(mm)	Lb (m)	L0 (m)
2-3	20	0.60	1.20
7-8	20	0.60	1.20
12-13	20	0.60	1.20
14-15	20	0.60	1.20

Notas

- (1) Las armaduras longitudinales se extienden más allá de las zonas delimitadas para cada una de ellas una longitud igual a su longitud de anclaje correspondiente.
(3) No se ha representado el despiece completo de las barras longitudinales. Aquellas que superen los 12 metros de longitud, se solaparán según las longitudes de solape definidas.
(2) La nomenclatura empleada para designar el armado es: diámetro(mm Ø)/separación(m)