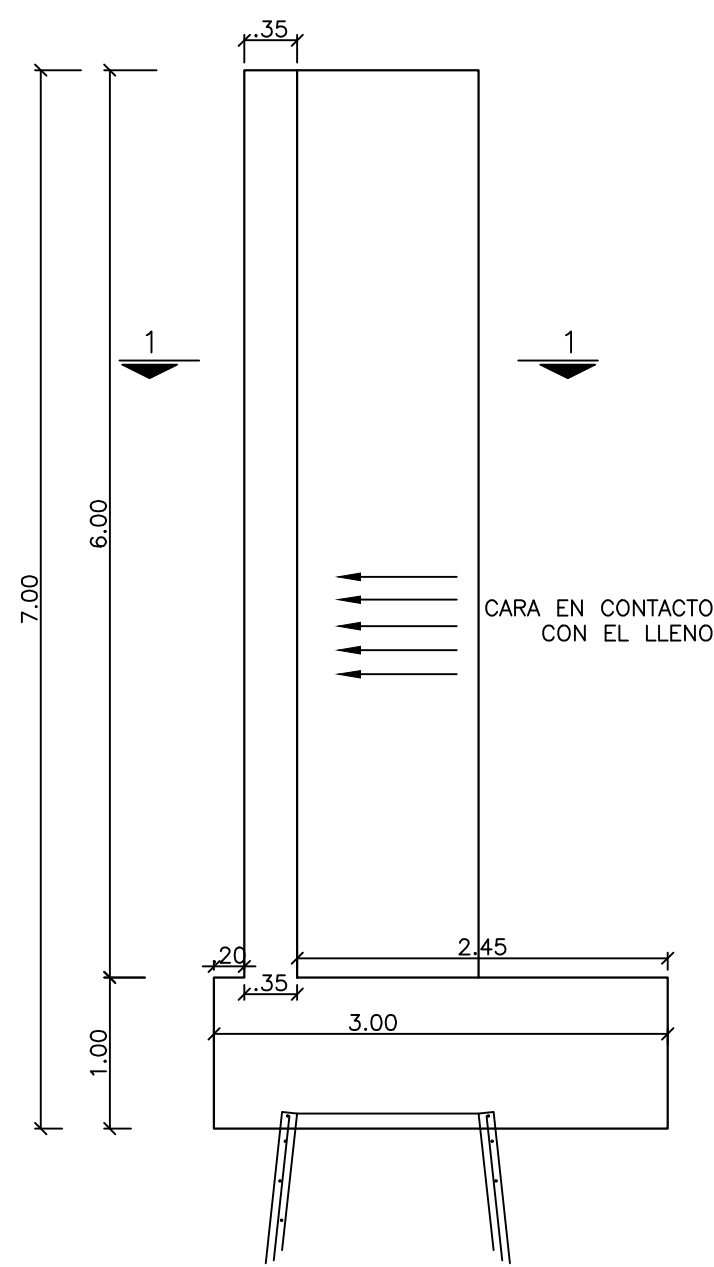
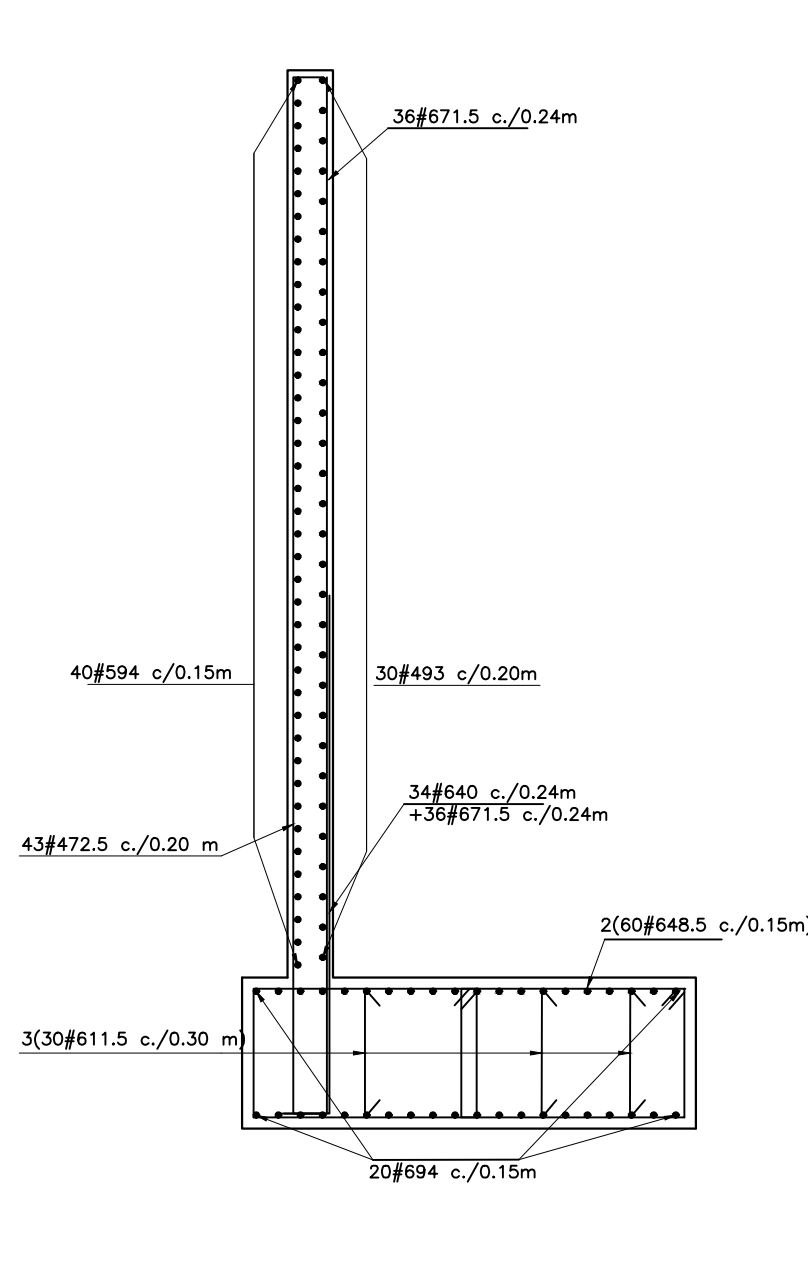
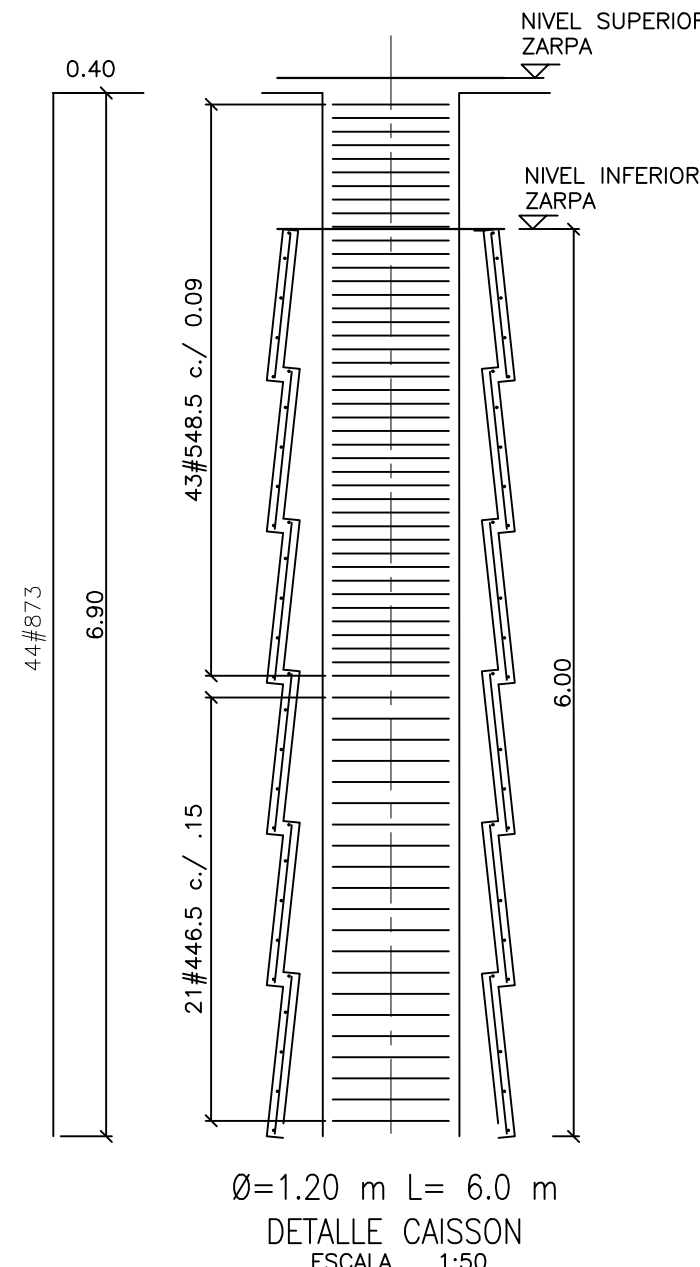




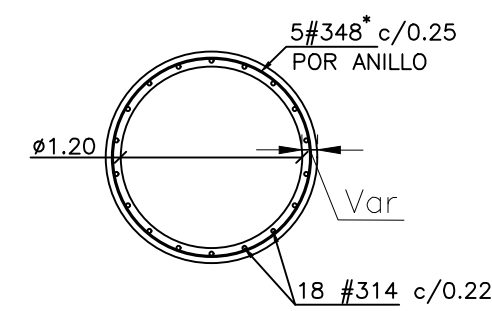
GEOMETRÍA MURO SOBRE CAISSON
ESCALA 1:50



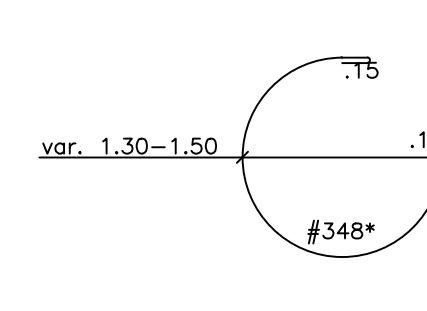
REFUERZO DEL MURO SOBRE CAISSON
ESCALA 1:50



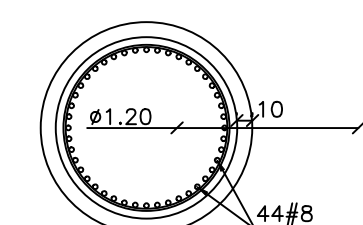
DETALLE CAISSON
ESCALA 1:50



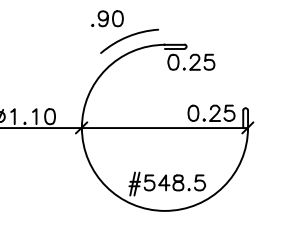
SECCIÓN ANILLO
ESCALA 1:50



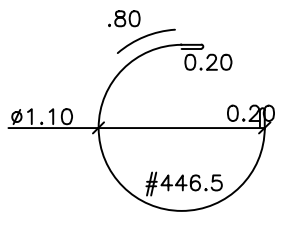
ESTRIBOS ANILLO
ESCALA 1:50



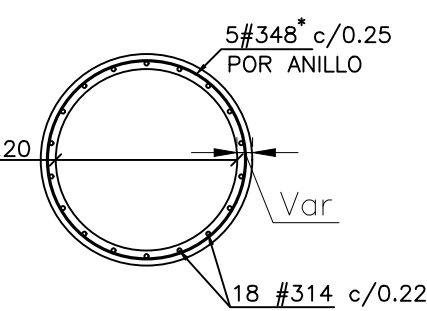
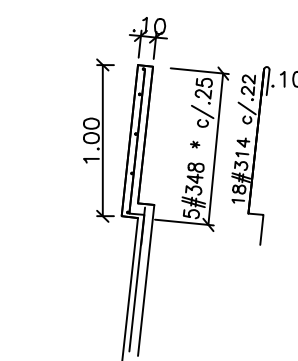
SECCIÓN CAISSON
ESCALA 1:50



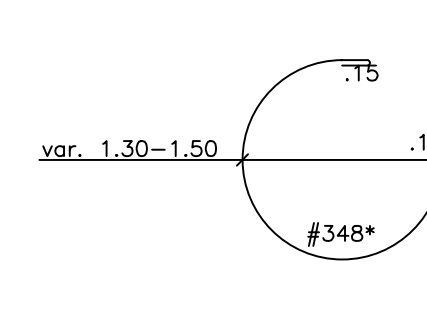
ESTRIBOS CAISSON
ESCALA 1:50



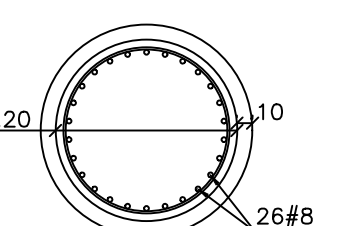
ESTRIBOS CAISSON
ESCALA 1:50



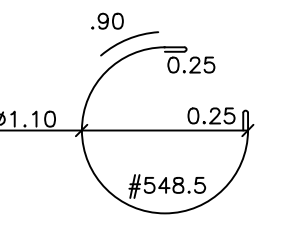
SECCIÓN ANILLO
ESCALA 1:50



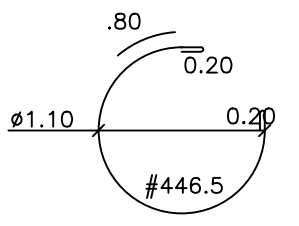
ESTRIBOS ANILLO
ESCALA 1:50



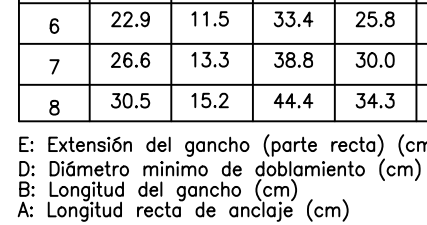
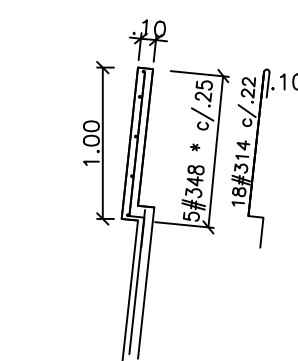
SECCIÓN CAISSON
ESCALA 1:50



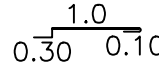
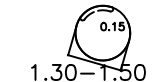
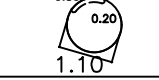
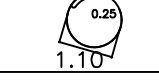
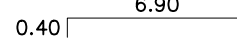
ESTRIBOS CAISSON
ESCALA 1:50

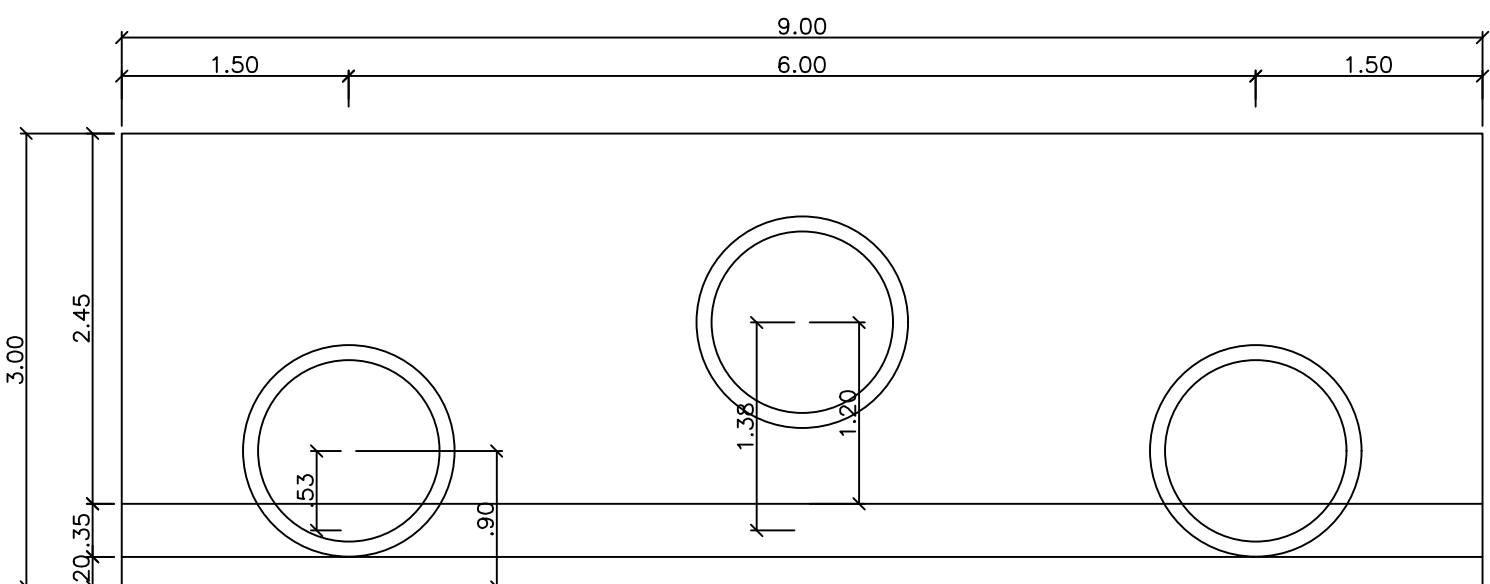


ESTRIBOS CAISSON
ESCALA 1:50

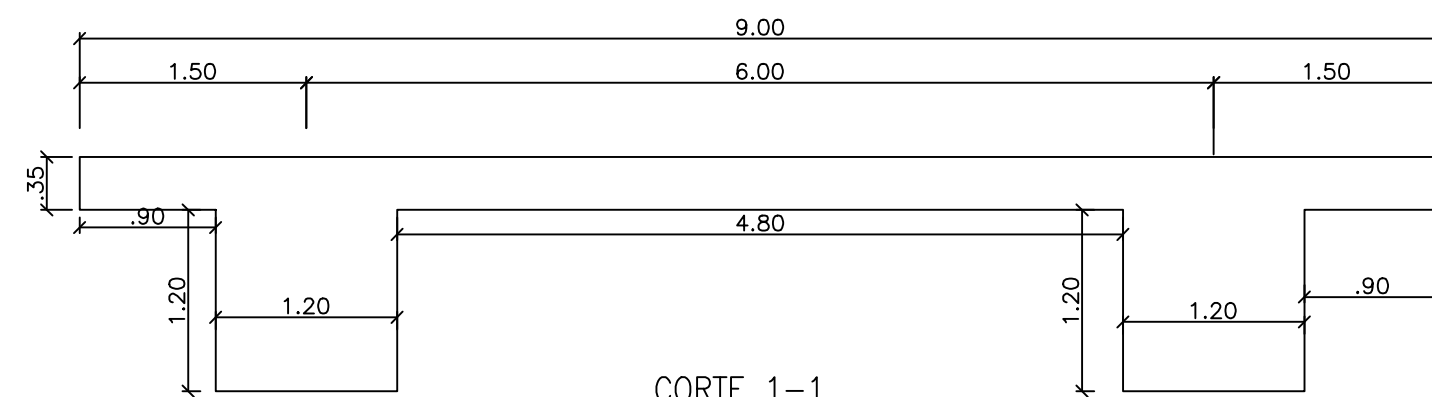


DETALLE CAISSON
ESCALA 1:50

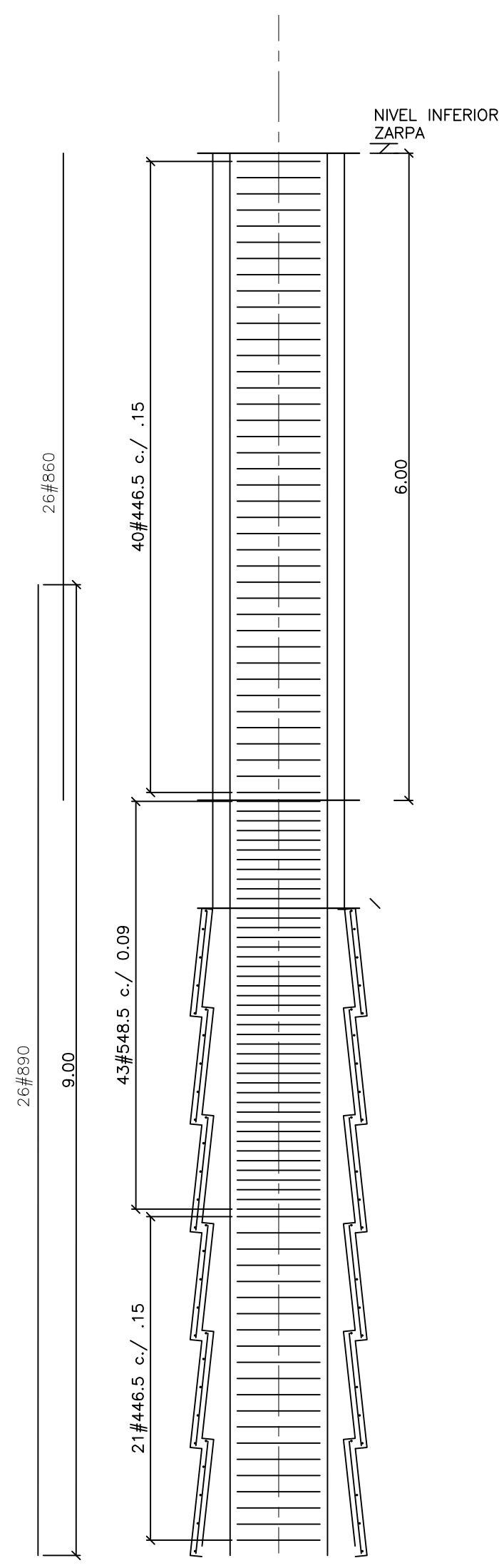
CUADRO CANTIDADES CAISSON L= 6.0 m POR MÓDULO										
#	L	Cantidad	Longitud total (m)						Despiece	
			ϕ 3⁄8"	ϕ 1⁄2"	ϕ 5⁄8"	ϕ 3⁄4"	ϕ 7⁄8"	ϕ 1"		
314	1.40	108	151.2							
348*	4.80	30	144.0							
446.5	4.65	21		97.7						
548.5	4.85	43			208.6					
873	7.30	44						321.2		
Longitud total por diametro (m)			295.2	97.7	208.6	0.0	0.0	321.2	Volumen Concreto (m3)	10.5600
Peso total por diametro (kg)			165.31	97.06	323.67	0.0	0.00	1284.80		
Peso total Elemento (kg)			1870.85							



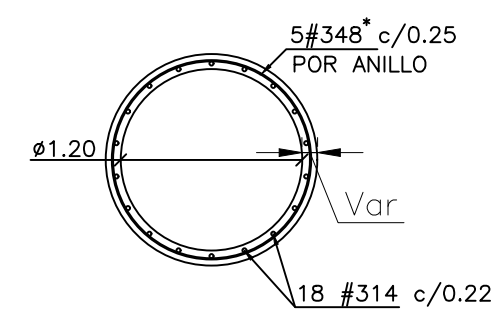
PLANTA MURO SOBRE CAISSON
ESCALA 1:50



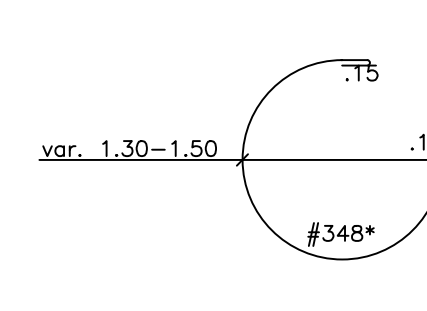
CORTE 1-1
ESCALA 1:50



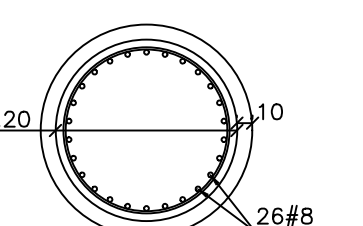
DETALLE CAISSON
ESCALA 1:50



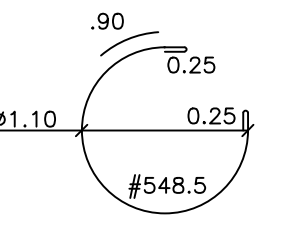
SECCIÓN ANILLO
ESCALA 1:50



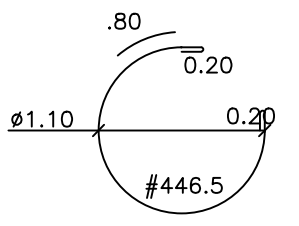
ESTRIBOS ANILLO
ESCALA 1:50



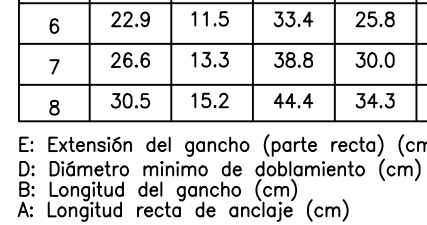
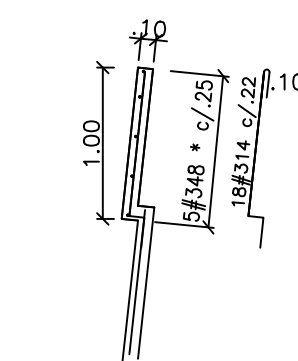
SECCIÓN CAISSON
ESCALA 1:50



ESTRIBOS CAISSON
ESCALA 1:50

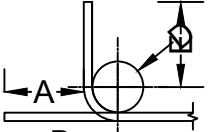
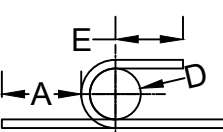
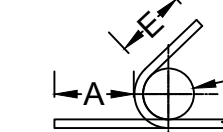


ESTRIBOS CAISSON
ESCALA 1:50



DETALLE CAISSON
ESCALA 1:50

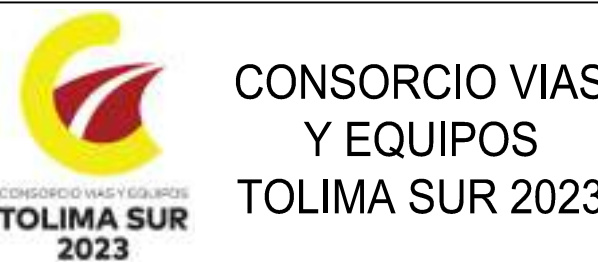
CUADRO DE TRASLAPOS DE VARILLAS		
BARRA	TRASLAPOS	
	TRACCIÓN	COMPRESIÓN
2	0.550	0.300
3	0.550	0.300
4	0.727	0.375
5	0.909	0.469
6	1.090	0.563
7	1.583	0.656
8	1.810	0.750

DIMENSIONES MINIMAS PARA GANCHOS ESTANDAR														
														
GANCHOS DE 90°				GANCHOS DE 180°				ESTRIBOS DE 135°						
BARRA	E(cm)	D(cm)	B(cm)	A(cm)	BARRA	E(cm)	D(cm)	B(cm)	A(cm)	BARRA	E(cm)	D(cm)	B(cm)	A(cm)
2	7.7	3.8	11.2	8.6	2	6.5	3.8	13.5	11.0	2	3.8	2.6	7.6	5.7
3	11.4	5.7	16.6	12.8	3	6.5	5.7	16.9	13.1	3	5.7	3.8	11.3	8.4
4	15.2	7.6	22.2	17.1	4	6.5	7.6	20.5	15.4	4	7.6	5.1	15.1	11.3
5	19.1	9.5	27.8	21.5	5	6.5	9.5	24.0	17.6	5	9.5	6.4	18.9	14.1
6	22.9	11.5	33.4	25.8	6	7.6	11.5	28.6	21.0	6	11.5	11.5	27.2	19.6
7	26.6	13.3	38.8	30.0	7	8.9	13.3	33.3	24.4	7	13.3	13.3	31.6	22.7
8	30.5	15.2	44.4	34.3	8	10.2	15.2	38.1	27.9	8	15.2	15.2	36.2	26.0

E: Extensión del gancho (parte recta) (cm)
D: Diámetro mínimo de doblamiento (cm)
B: Longitud del gancho (cm)
A: Longitud recta de anclaje (cm)

CUADRO CANTIDADES MURO										
	L	Cantidad	Longitud total (m)						Despiece	
			ϕ 3⁄8"	ϕ 1⁄2"	ϕ 5⁄8"	ϕ 3⁄4"	ϕ 7⁄8"	ϕ 1"		ϕ 1 1⁄4"
	1.65		#####						0.10 1.45 0.10	
	7.50	48		360.0					0.20 7.10 0.20	
	4.25	28		119.0					0.20 3.85 0.20	
	5.20	80				416.0			0.10 1.65 0.85	
	7.70	28				215.6			0.30 7.10 0.30	
	2.40	21				50.4			0.30 2.10	
	4.15	21				87.2			0.30 3.85	
ongitud total por diámetro (m)			#####	479.0	0	769.2	0	0	Volumen Concreto (m3)	58.86
Peso total por diámetro (kg)			#####	476.13	0.00	1719.1	0.00	0.00		
Peso total Elemento (kg)			2195.18							

CUADRO CANTIDADES CAISSON L= 13.0 m POR MÓDULO										
#	L	Cantidad	Longitud total (m)						Despiece	
			ϕ 3⁄8"	ϕ 1⁄2"	ϕ 5⁄8"	ϕ 3⁄4"	ϕ 7⁄8"	ϕ 1"		
314	1.40	216	302.4						1.0 0.30 0.10	
348*	4.80	60	288.0						1.30-1.50 0.30 0.20	
446.5	4.65	122		567.3					1.10 0.30 0.20	
548.5	4.85	86			417.1				1.10 0.30 0.20	
860	6.00	52						312.0	6.0	
890	9.00	52						468.0	9.0	
Longitud total por diámetro (m)			590.4	567.3	417.1	0.0	0.0	780.0	Volumen Concreto (m3)	10.5600
Peso total por diámetro (kg)			330.62	563.90	647.34	0.0	0.00	3120.00		
Peso total Elemento (kg)			4661.86							



OBJETO:
CONTRATAR EL MEJORAMIENTO DE LA VÍA ATACO-PLANADAS EN EL DEPARTAMENTO DEL TOLIMA

DIRECTOR CONSTRUCTORA:
ING. ORLANDO CAMARGO
Especialista Constructor

DIRECTOR INTERVENTORIA:
Especialista Interventoria:

MODIFICACIONES Y REVISIONES		
FECHA	MODIFICACIÓN	NOMBRE ING. RESPONSABLE
ABRIL/2022	VERSIÓN INICIAL	

TRAMO:
CAÑO FISTO

CONTIENE:
DISEÑO ESTRUCTURAL MURO CAÑOFISTO K16+250 SOBRE RIO ATÁ

ESCALA:
INDICADA
ARCHIVO:
Plano estructural Muro cañofisto.dwg

FECHA:
ABRIL 2022
PLANO:
1/1
REV:
V-1