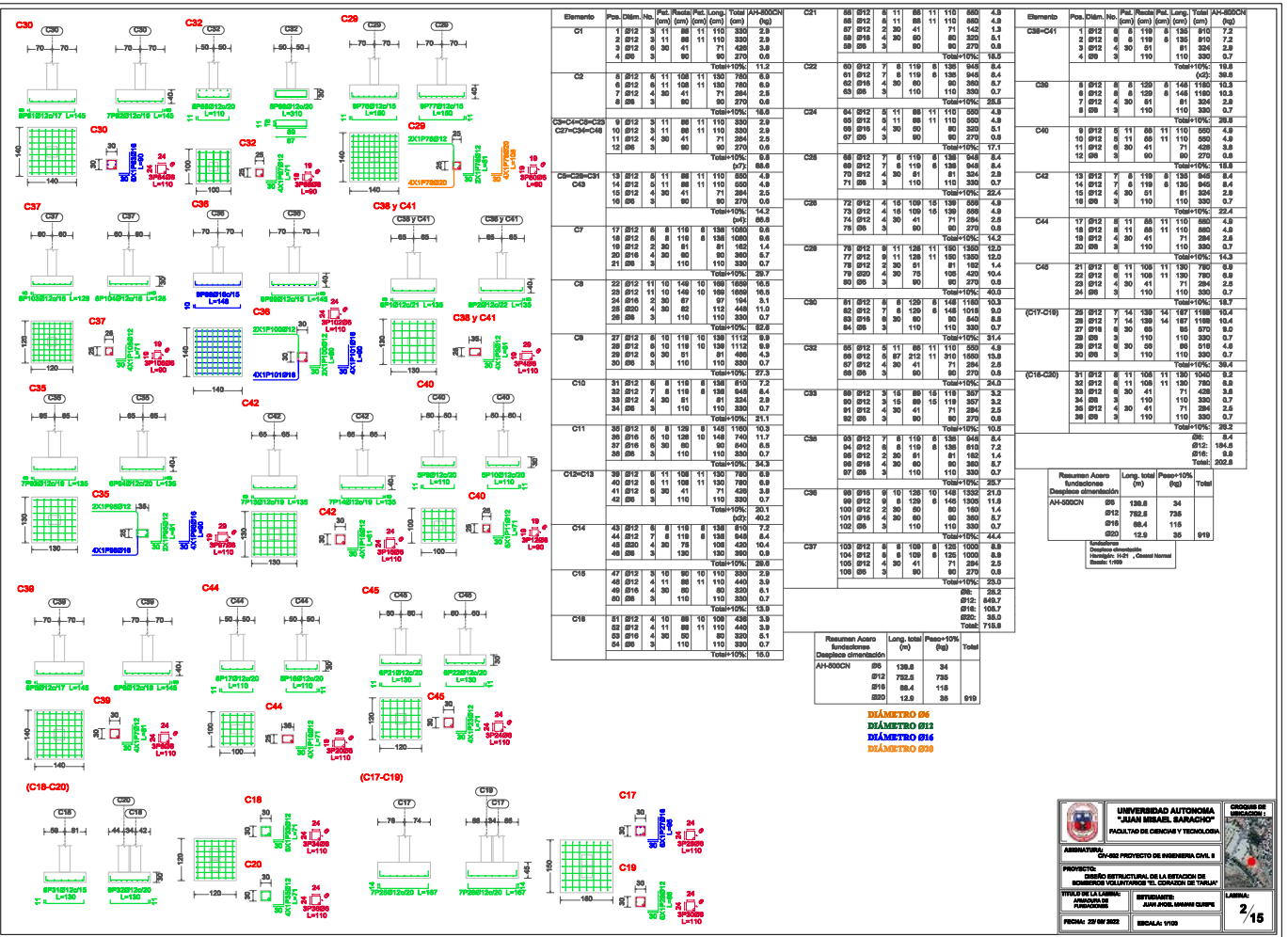
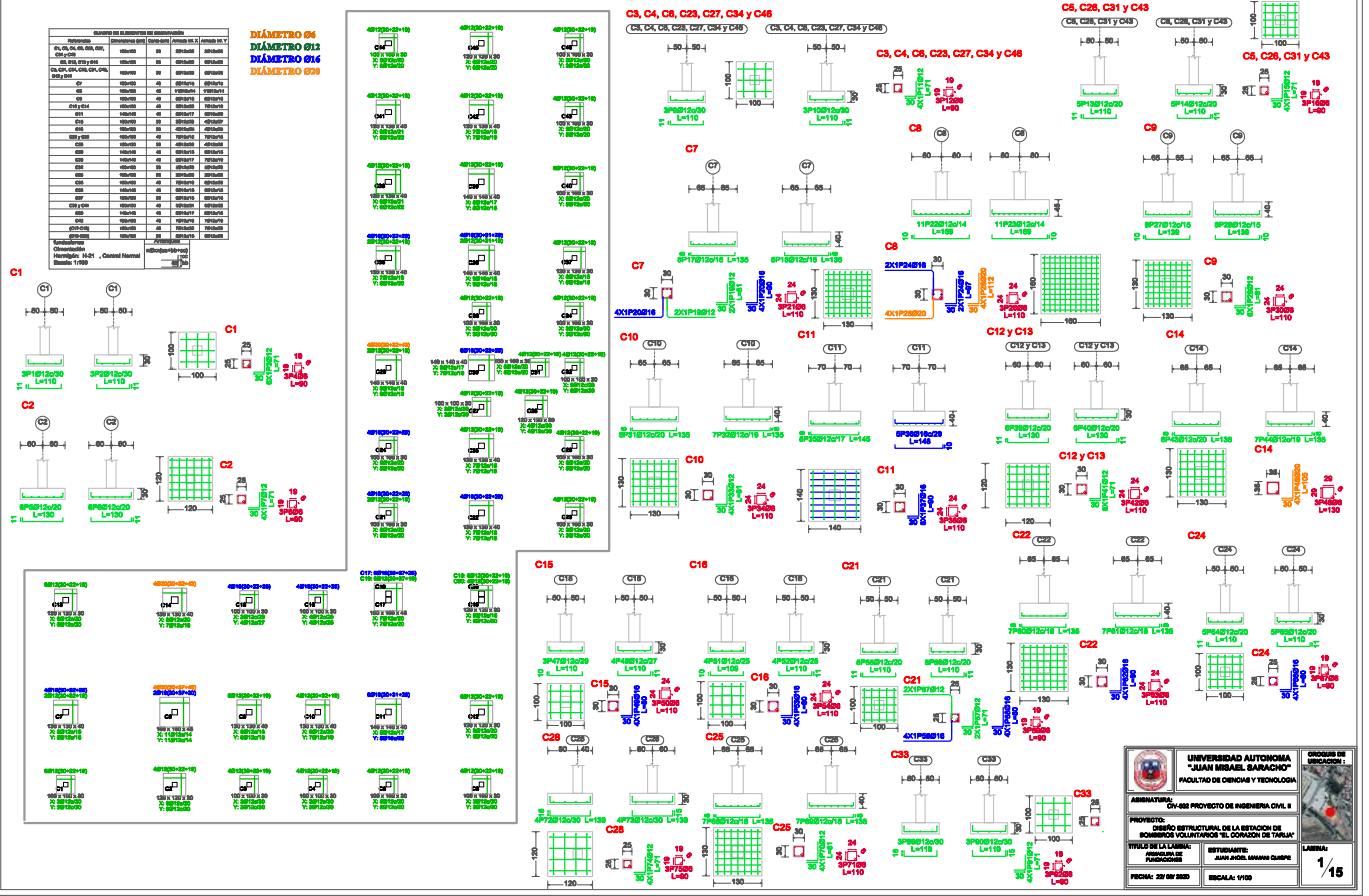
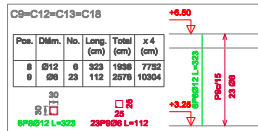
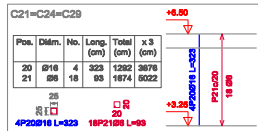
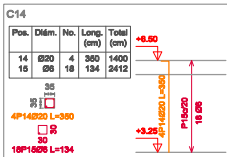
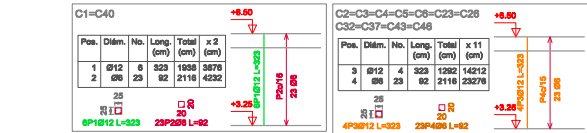


PLANO DE DESPIECE DE FUNDACIONES

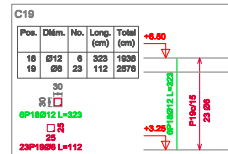
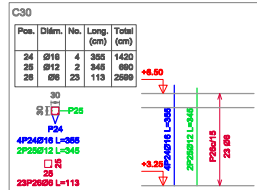
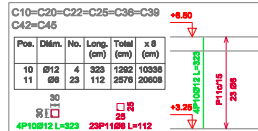
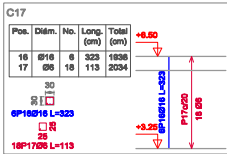
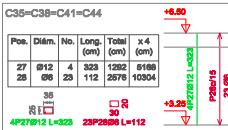
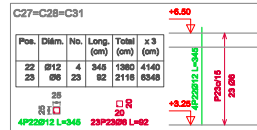
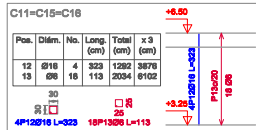
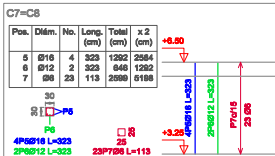


PILARES QUE TERMINAN EN PLANTA ALTA



Resumen Acero planta alta Pilares	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	1010.2	247	
Ø12	494.0	482	
Ø16	138.9	238	
Ø20	14.0	38	1005

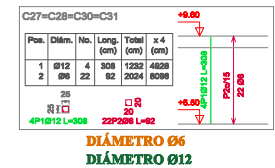
Pilares que terminan en planta alta
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100



DIÁMETRO Ø6
DIÁMETRO Ø12
DIÁMETRO Ø16
DIÁMETRO Ø20

C7=C8	5	Ø16	4	323	323	1292	20.4	
	6	Ø12	2	323	323	646	5.7	
	7	Ø6	23	113	113	2598	5.8	
	Total+10%:						35.1	
						(x2):	70.2	
C9=C12=C13 C18	8	Ø12	6	323	323	1938	17.2	
	9	Ø6	23	112	112	2576	5.7	
	Total+10%:						26.2	
	(x4):						100.8	
C10=C20=C22 C25=C36=C39 C42=C45	10	Ø12	4	323	323	1292	11.5	
	11	Ø6	23	112	112	2576	5.7	
	Total+10%:						16.9	
	(x8):						151.2	
C11=C15=C16	12	Ø16	4	323	323	1292	20.4	
	13	Ø6	18	113	113	2034	4.5	
	Total+10%:						27.4	
	(x3):						82.2	
C14	14	Ø20	4	27	323	360	1400	34.5
	15	Ø6	18	134	134	2412	5.4	
	Total+10%:						43.9	
C17	16	Ø16	6	323	323	1938	30.6	
	17	Ø6	18	113	113	2034	4.5	
	Total+10%:						38.6	
C19	18	Ø12	6	323	323	1938	17.2	
	19	Ø6	23	112	112	2576	5.7	
	Total+10%:						26.2	
C21=C24=C29	20	Ø16	4	323	323	1292	20.4	
	21	Ø6	18	93	93	1674	3.7	
	Total+10%:						26.5	
	(x3):						79.5	
C27=C28=C31	22	Ø12	4	345	345	1380	12.3	
	23	Ø6	23	92	92	2116	4.7	
	Total+10%:						16.7	
	(x3):						56.1	
C30	24	Ø16	4	355	355	1420	22.4	
	25	Ø12	2	345	345	690	6.1	
	26	Ø6	23	113	113	2598	5.8	
	Total+10%:						37.7	
C35=C38=C41 C44	27	Ø12	4	323	323	1292	11.5	
	28	Ø6	23	112	112	2576	5.7	
	Total+10%:						16.9	
	(x4):						75.6	
	Ø6:						245.2	
	Ø12:						484.3	
Ø16:						237.5		
Ø20:						38.0		
Total:						1005.0		

PILARES QUE TERMINAN EN TANQUE



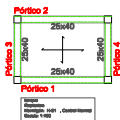
Resumen Acero tanque Pilares	Long. total (m)	Peso+10% (kg)	Total
AH-500CN Ø6	81.0	20	
Ø12	49.3	48	66

Pilares que terminan en tanque
Hormigón: H-21 , Control Normal
Acero: AH-500 , Control Normal
Escala: 1:100

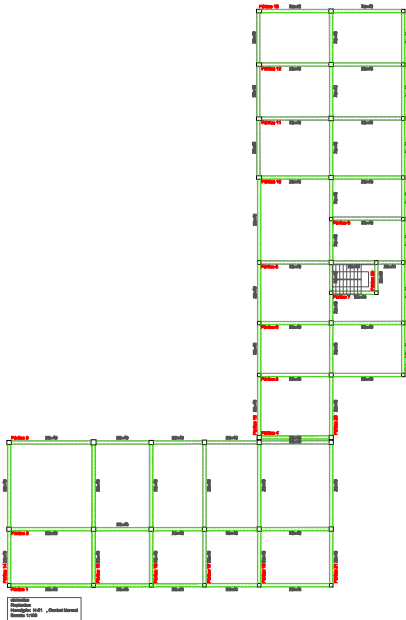
Elemento	Pos.	Díam.	No.	Pat. Recta (cm)	Pat. Long. (cm)	Total (cm)	AH-500CN (kg)
C27=C28=C30	1	Ø12	4	308	1232	10.9	
C31	2	Ø6	22	92	2024	4.5	
	Total+10%:						16.9
	(x4):						67.6
	Ø6:						19.6
	Ø12:						48.0
	Total:						67.6

 UNIVERSIDAD AUTÓNOMA "JUAN MISAEL SARACHO" FACULTAD DE CIENCIAS Y TECNOLOGÍA		CROQUIS DE UBICACIÓN: 
ASIGNATURA: CIV-502 PROYECTO DE INGENIERIA CIVIL II		
PROYECTO: DISEÑO ESTRUCTURAL DE LA ESTACION DE BOMBEROS VOLUNTARIOS "EL CORAZON DE TARLITA"		
TÍTULO DE LA LÁMINA: ARMADURA DE COLUMNAS	ESTUDIANTE: JUAN JOEL MAMANI QUISEP	LÁMINA: 4 / 15
FECHA: 23/09/2020	ESCALA: 1/100	

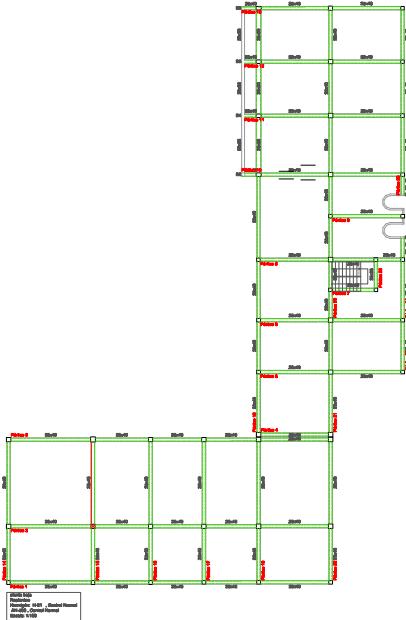
REPLANTEO DE VIGAS DE TANQUE



REPLANTEO DE VIGAS CIMENTOS



REPLANTEO DE PLANTA BAJA



REPLANTEO DE PLANTA ALTA

