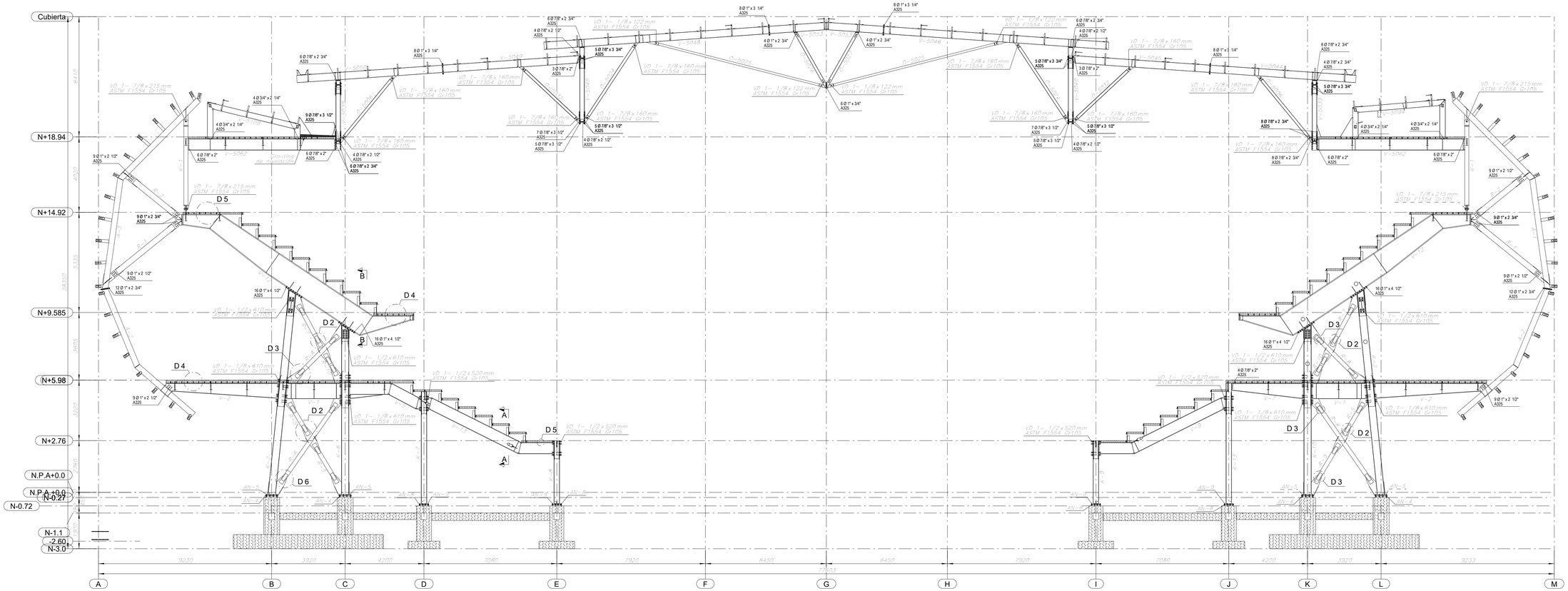
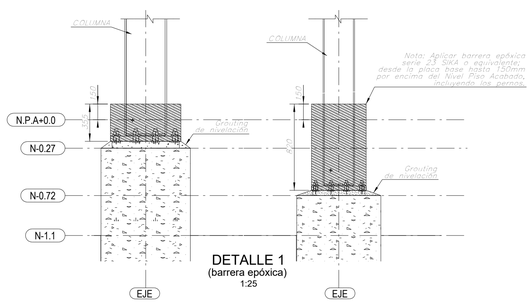


EJE 7
1:100

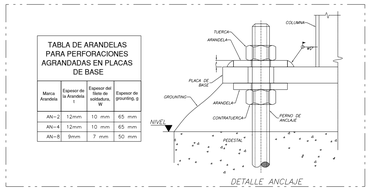
Designación	Tipo de acero	Peso 100 unid. (kg)	Cant. (un)	Peso arand. 100 unid. (kg)	Arandelas (un)	P.Parcial (kg)	PesoTotal (kg)
Ø1/2"x1"	A307 Gr2	5.5	3865	0.95	7730	285.6	
Ø1/4"x1"	A307 Gr2	1.1	2480	0.73	4960	63.0	
Ø1"x2-3/4"	A325 tipo 1	61.2	936	4.26	0	572.8	
Ø1/2"x1"	A325 tipo 1	7.5	480	0.95	0	35.9	
Ø1/2"x1-1/2"	A325 tipo 1	8.7	3216	0.95	0	280.1	
Ø3/4"x1-3/4"	A325 tipo 1	25.1	3805	2.18	0	955.1	
Ø7/8"x2"	A325 tipo 1	39.1	4352	3.18	0	1701.6	
Ø1/2"x1-1/4"	A307 Gr2	5.9	838	0.95	0	49.8	
Ø1-1/8"x3"	A325 tipo 1	85.3	120	5.13	0	102.4	
Ø1-1/8"x4"	A325 tipo 1	98.0	288	5.13	0	282.2	
Ø1-1/8"x4-1/2"	A325 tipo 1	104.0	704	5.13	0	732.2	
Ø1-1/8"x4-3/4"	A325 tipo 1	108.0	192	5.13	0	207.4	
Ø1-1/8"x5"	A325 tipo 1	111.0	176	5.13	0	195.4	
Ø1"x2-1/2"	A325 tipo 1	59.0	864	4.26	0	509.8	
Ø1"x4-1/2"	A325 tipo 1	78.5	1054	4.26	0	827.4	
Ø3/4"x1-1/2"	A325 tipo 1	23.7	352	2.18	0	83.4	
Ø3/4"x2"	A325 tipo 1	26.5	830	2.18	0	220.0	
Ø3/4"x2-1/2"	A325 tipo 1	29.3	544	2.18	0	159.4	
Ø3/4"x2-1/4"	A325 tipo 1	27.9	2864	2.18	0	799.1	
Ø3/4"x3"	A325 tipo 1	32.2	512	2.18	0	164.9	
Ø7/8"x2-1/2"	A325 tipo 1	42.9	1120	3.18	0	480.5	
Ø7/8"x2-1/4"	A325 tipo 1	41.0	120	3.18	0	49.2	
Ø7/8"x2-3/4"	A325 tipo 1	44.8	5780	3.18	0	2589.4	
Ø7/8"x3"	A325 tipo 1	46.7	3120	3.18	0	1457.0	
Ø7/8"x3-1/2"	A325 tipo 1	50.3	688	3.18	0	346.1	
Ø7/8"x3-3/4"	A325 tipo 1	52.6	400	3.18	0	210.4	
Ø1"x3-1/4"	A325 tipo 1	66.2	432	4.26	0	286.0	
Tuerca Ø7/8"	A563 DH	12.6	600	0.00	0	75.5	
Tuerca Ø1-1/4"	A563 DH	35.7	1048	0.00	0	373.6	
Tuerca Ø1-1/2"	A563 DH	59.4	192	0.00	0	114.1	
Arandela Ø3/8"	F844	0.0	0	0.82	2872	23.6	
Con. Ø3/4"x3"	A307 Gr2	20.9	28382	0.00	0	5943.2	
							20175.8 kg

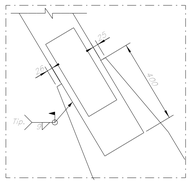


DETALLE 1
(barrera epóxica)
1:25

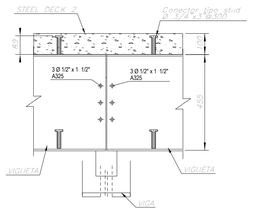
TABLA DE ARANDELAS PARA PERFORACIONES AGRANDADAS EN PLACAS DE BASE

Marca Arandela	Espesor de la Arandela t	Espesor del cordón de soldadura, W	Espesor de grouting, g
AN-2	12mm.	10 mm.	65 mm.
AN-4	12mm.	10 mm.	65 mm.
AN-8	9mm.	7 mm.	50 mm.

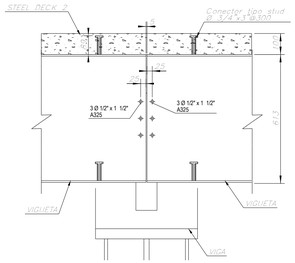




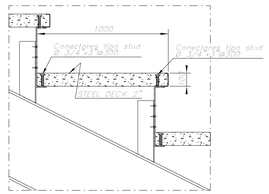
DETALLE 2
1:12.5



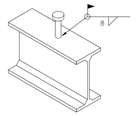
SECCION A - A
1:12.5



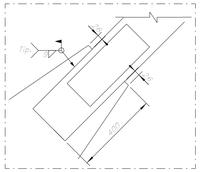
SECCION B - B
1:12.5



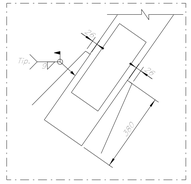
DETALLE TIPICO
1:20



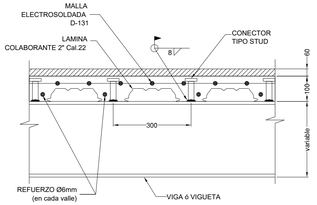
DETALLE UNION CONECTOR STUD
PROCESO SMAW, GMAW y FCAW



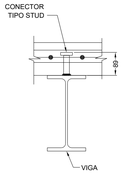
DETALLE 3
1:12.5



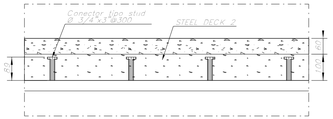
DETALLE 6
1:12.5



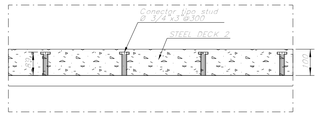
SECCION TIPICA DE LOSA
1 : 10



SECCION VIGA
1 : 10



DETALLE 4
1:10



DETALLE 5
1:10

MINIMA TENSION DE PERNOS, kN*		
Ø PERNO	PERNO A325	PERNO A490
1/2"	55	70
5/8"	80	110
3/4"	120	160
7/8"	170	215
1"	225	285
1-1/8"	250	350
1-1/4"	315	450

*Igual a 0.70 de la misma resistencia a tensión de los pernos

Nº rev.	Descripción de Revisión	Tipo	Fecha	Revisó

INHIERRO

OBRA : 17061A
Coliseo Alvaro Mesa Amaya

CONTIENE : Montaje Estructura EJE 7

CÁLCULO:	Luis Horacio Restrepo	FECHA:	30.10.2020
DETALLADO:	Jadehr Ariza	MEDIDAS EN:	mm
MODELO:	Andres FAJ-Sandra Cardenas	ESCALA:	INDICADAS
DIBUJO:	Hernan Ortiz	REVISO:	REV. NUM. 0

PLANO Nº: **17061AM7**

Tekla Structures