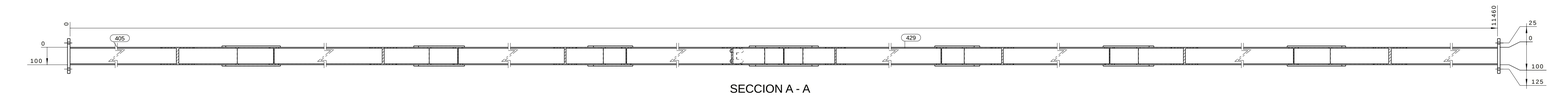
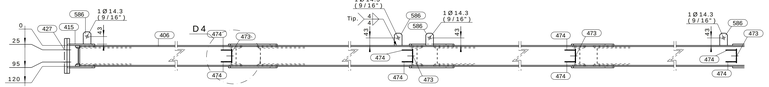
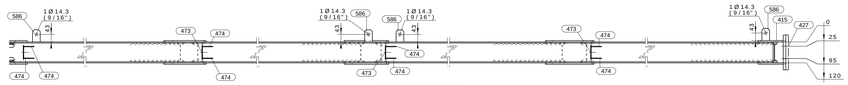


SECCION A - A
1:12.5



SECCION B - B
1:12.5



SECCION C - C
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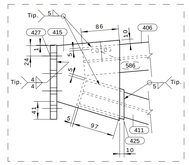
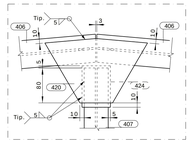
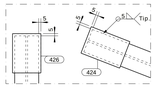


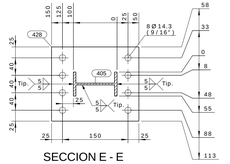
DETALLE 1
aplica espejo
1:5



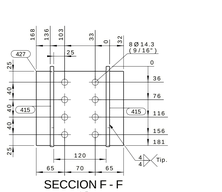
DETALLE 2
1:5



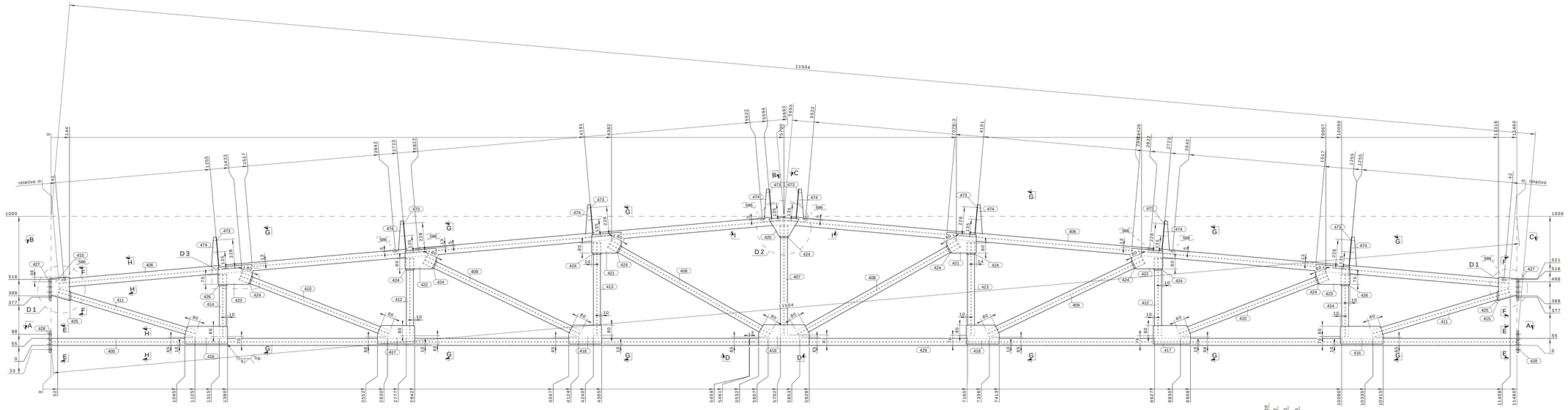
DETALLE 3
tipico
1:5



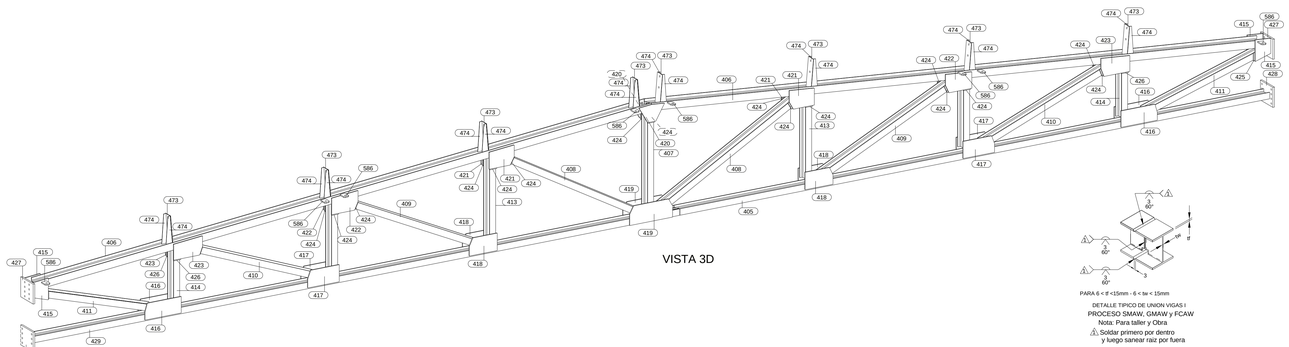
SECCION E - E
1:5



SECCION F - F
1:5



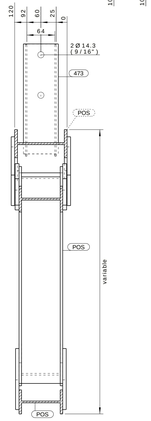
V. FRONTAL
1:12.5



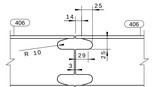
VISTA 3D

PARA 6 < tf <15mm - 6 < tw < 15mm

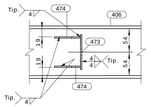
DETALLE TIPICO DE UNION VIGAS I
PROCESO SMAW, GMAW y FCAW
Nota: Para taller y Obra
⚠ Soldar primero por dentro
y luego sanear raiz por fuera



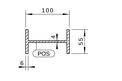
SECCION G - G
1:5



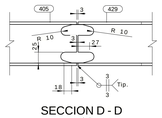
SECCION I - I
1:12.5



DETALLE 4
1:5



SECCION H - H
1:5



SECCION D - D
1:12.5

LISTA PARTES DE CONJUNTO

Conjunto: C-1 Cantidad: 1 Long. (mm): 1281

Descripcion: ENSAMBLE DE CERCHA Peso, (Un): 451.90 kg

PARTE	C/UNIT	CANT	DESCRIPCION	LONG	P. UNIT	P. TOTAL	A. TOTAL	MATERIAL
405	1	1	IPE100	5460	44.15	44.15	2.184	ASTM A572 Gr.50
406	2	2	IPE120	5691	58.97	117.94	5.407	ASTM A572 Gr.50
407	1	1	IPE100	851	6.88	6.88	0.340	ASTM A572 Gr.50
408	2	2	IPE100	1436	11.61	23.22	1.149	ASTM A572 Gr.50
409	2	2	IPE100	1343	10.86	21.72	1.075	ASTM A572 Gr.50
410	2	2	IPE100	1241	10.03	20.07	0.993	ASTM A572 Gr.50
411	2	2	IPE100	1121	9.06	18.13	0.897	ASTM A572 Gr.50
412	2	2	IPE100	603	4.88	9.76	0.483	ASTM A572 Gr.50
413	2	2	IPE100	723	5.85	11.69	0.578	ASTM A572 Gr.50
414	2	2	IPE100	482	3.90	7.80	0.386	ASTM A572 Gr.50
415	4	4	PL8*144	184	1.66	6.65	0.199	ASTM A572 Gr.50
416	4	4	PL8*140	335	2.94	11.76	0.398	ASTM A572 Gr.50
417	4	4	PL8*146	291	2.66	10.63	0.358	ASTM A572 Gr.50
418	4	4	PL8*148	258	2.40	9.62	0.323	ASTM A572 Gr.50
419	2	2	PL8*161	396	4.01	8.02	0.263	ASTM A572 Gr.50
420	2	2	PL8*203	197	2.51	5.02	0.100	ASTM A572 Gr.50
421	4	4	PL8*164	231	2.38	9.51	0.299	ASTM A572 Gr.50
422	4	4	PL8*161	243	2.46	9.84	0.308	ASTM A572 Gr.50
423	4	4	PL8*158	266	2.64	10.55	0.329	ASTM A572 Gr.50
424	22	22	PL9*95	95	0.44	9.60	0.335	ASTM A572 Gr.50
425	4	4	PL9*65	114	0.52	2.09	0.066	ASTM A572 Gr.50
426	4	4	PL9*65	90	0.41	1.65	0.058	ASTM A572 Gr.50
427	2	2	PL15*170	200	4.00	8.01	0.158	ASTM A572 Gr.50
428	2	2	PL15*170	200	4.00	8.01	0.158	ASTM A572 Gr.50
429	1	1	IPE100	6000	48.51	48.51	2.400	ASTM A572 Gr.50
473	8	8	PL3*90	253	0.40	3.81	0.340	ASTM A36 Gr.36
474	16	16	PL3*60	253	0.36	5.72	0.352	ASTM A36 Gr.36
586	8	8	PL8*44	70	0.19	1.55	0.062	ASTM A36 Gr.36

PESO TOTAL DEL PLANO = 451.89kg + 3 % DE SOLDADURAS = 465.45 kg AREA TOTAL DEL PLANO = 20.00 m2

Acabado / Pintura / Ensayo (SRS)	
Anticorrosivo / Espesor :	Primer Epoxifosfatado de zinc Gris RAL 7035 P /75 m
Barrera / Espesor :	Barrera Epoxica Gris P /150 m
Esmalte / Espesor :	Esmalte Poliuretano Azul Trafico Ral 5017 P /50 m
Tratamiento Superficial :	SSPC-SP6
Pertenece al Sistema de Resistencia Sismica (SRS) :	SI

1	Las conexiones 4,5 a la pos.525 para de ASTM A36 Gr 36 ASTM A572 Gr 50.	PP	29.11.2024	

Nº rev.	Descripción de Revisión	Tipo	Fecha	Revisó

TAMAÑOS DE FILETE		
(") mm/(pulg.)	W=0.49(k) Gr.36	W=0.68(t) Gr.50
3 (1/8")	2	3
4.5(3/16")	3	4
6 (1/4")	4	5
8 (5/16")	4	6
9 (3/8")	5	7
12 (1/2")	7	9
15 (5/8")	8	11
19 (3/4")	10	13
25 (1")	13	18
32(1-1/4")	16	22
38(1-1/2")	19	26
50 (2")	25	35
filete sencillo	2W	
filete doble	W / W	

INHIERRO

OBRA :24062D

Planta Draga 21 Mineros

CONTIENE : ENSAMBLE DE CERCHA

CALCULO:	Santiago Ramirez	FECHA:	17.02.2025
DETALLADO:	Juan Diego Piedrahita	MEDIDAS EN:	mm
MODELO:	Julio C. Ospina R.	ESCALA:	INDICADAS
DIBUJO:	Hernan Ortiz	REVISO:	REV. NUM: 1

PLANO Nº: 24062DF139 C-1

Tekla Structures