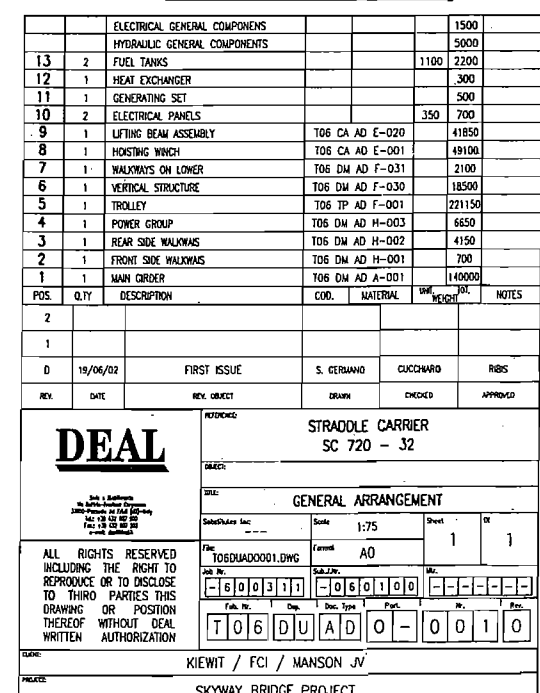
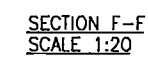
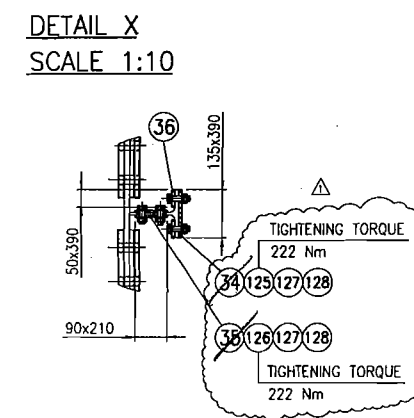
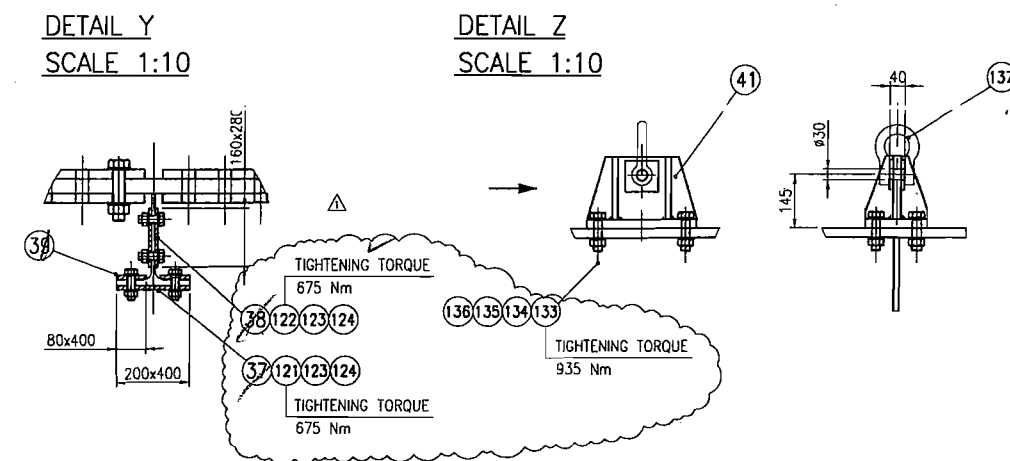
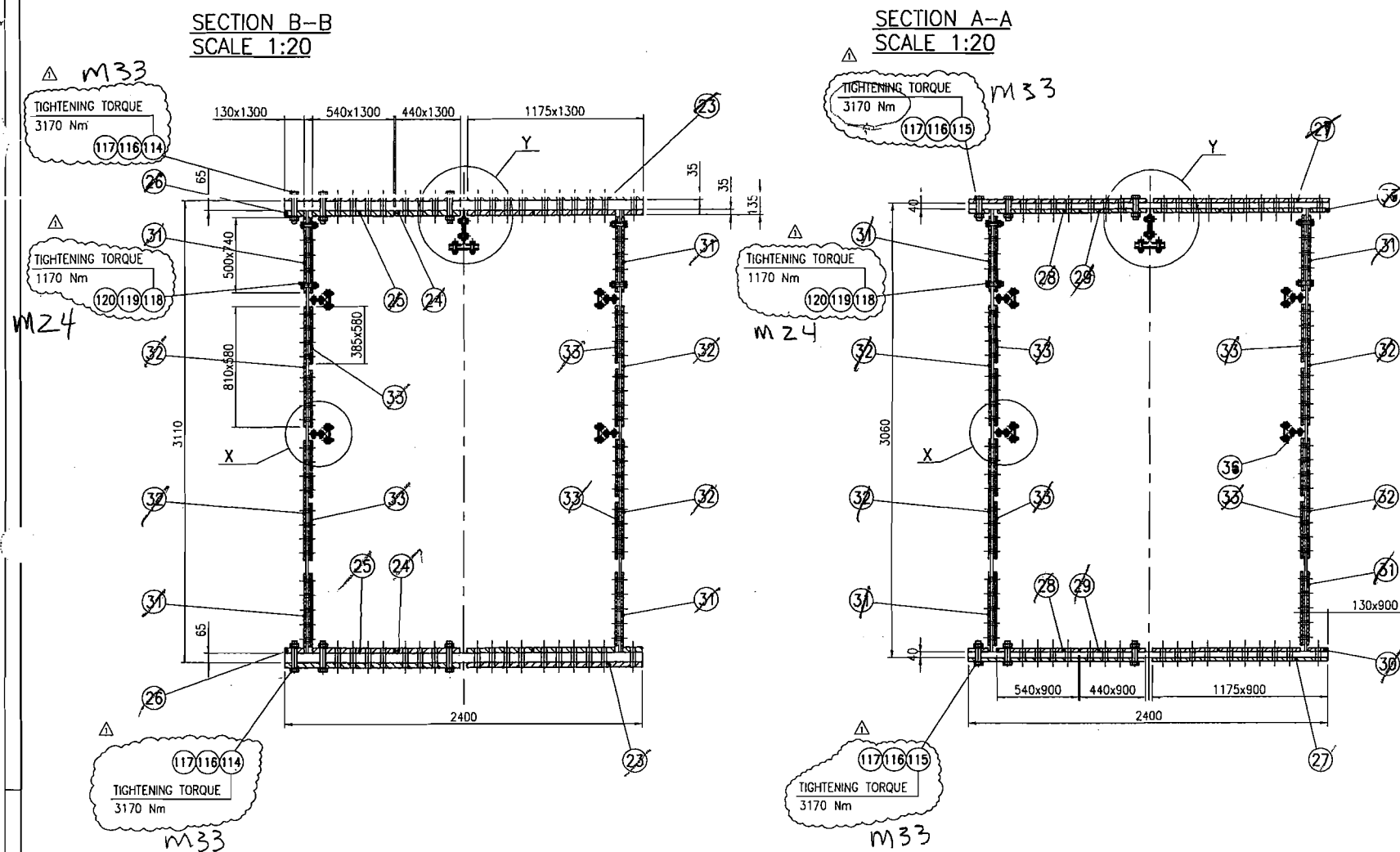






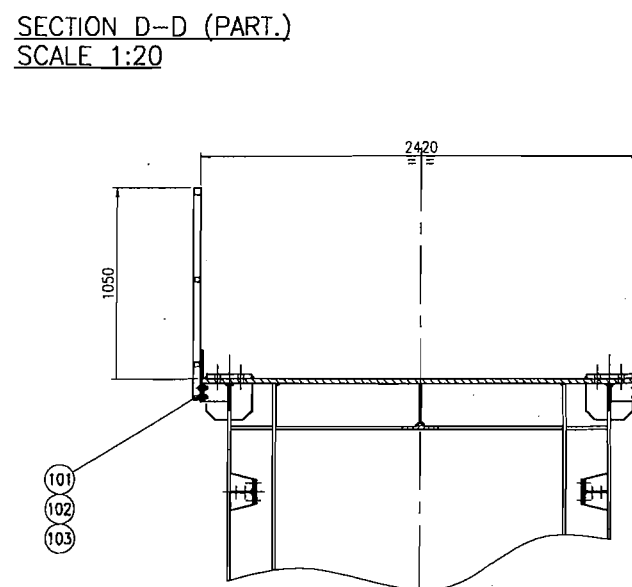
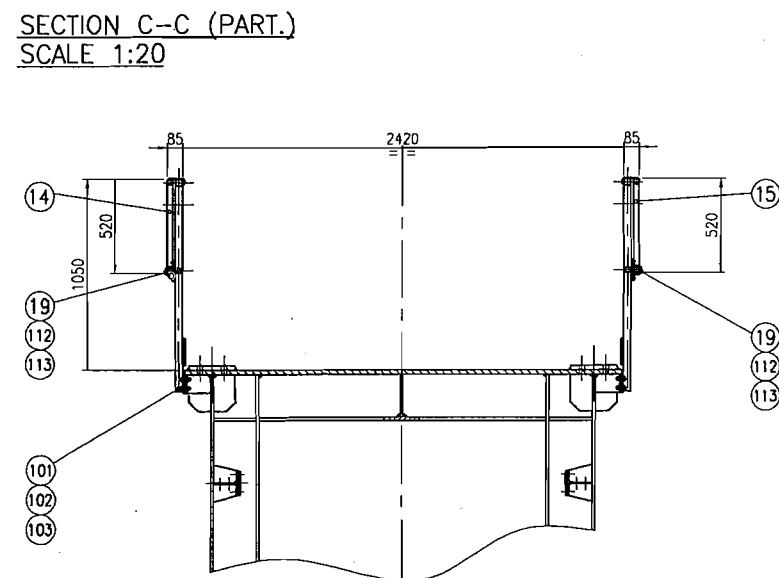
126,406

[illegible]

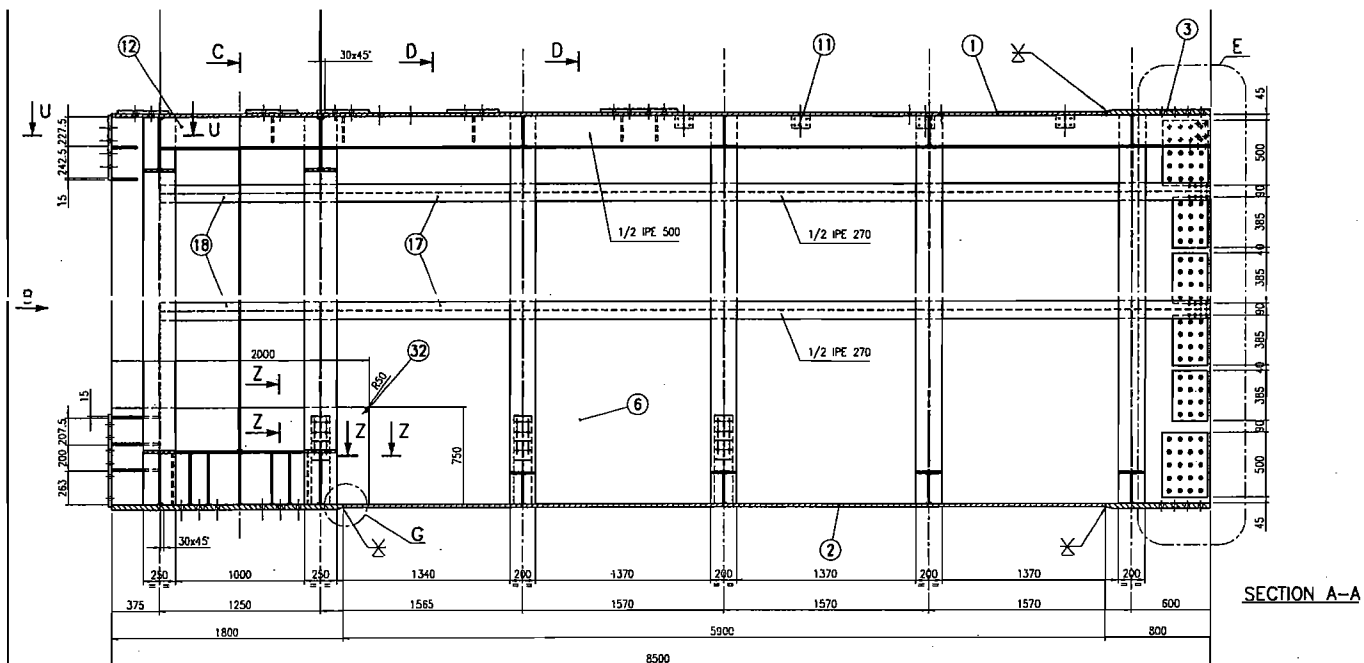


Main Beam Tongues

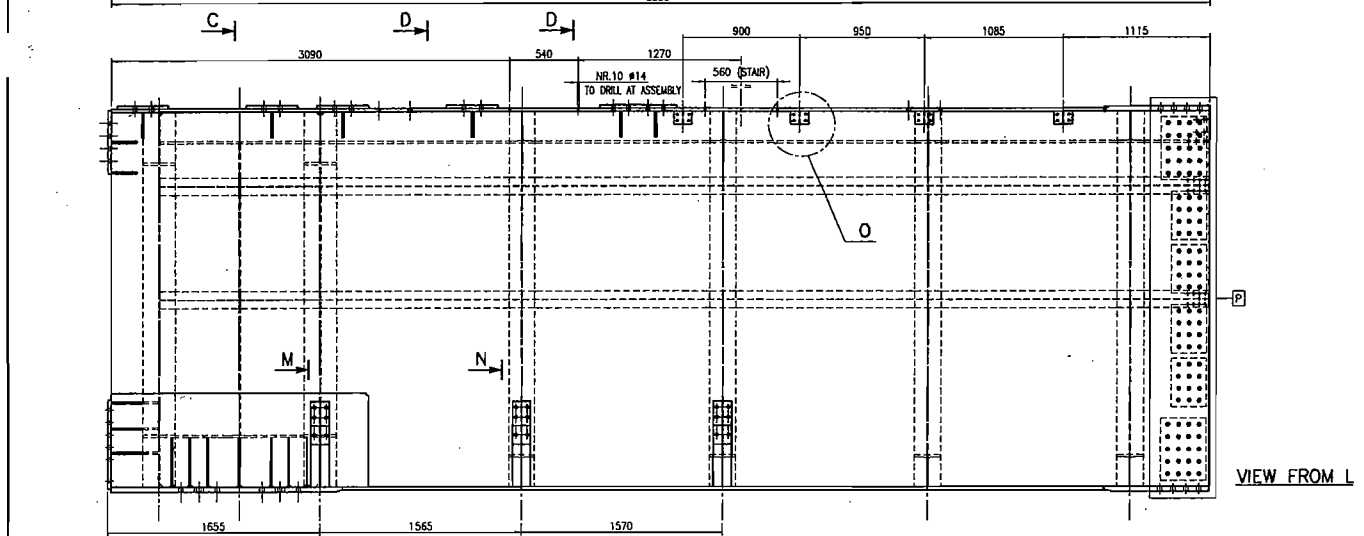
m 33's	-	2,340	RT/lbs
m 24's	-	863	
m 20's	-	500	
m 14's	-	163	



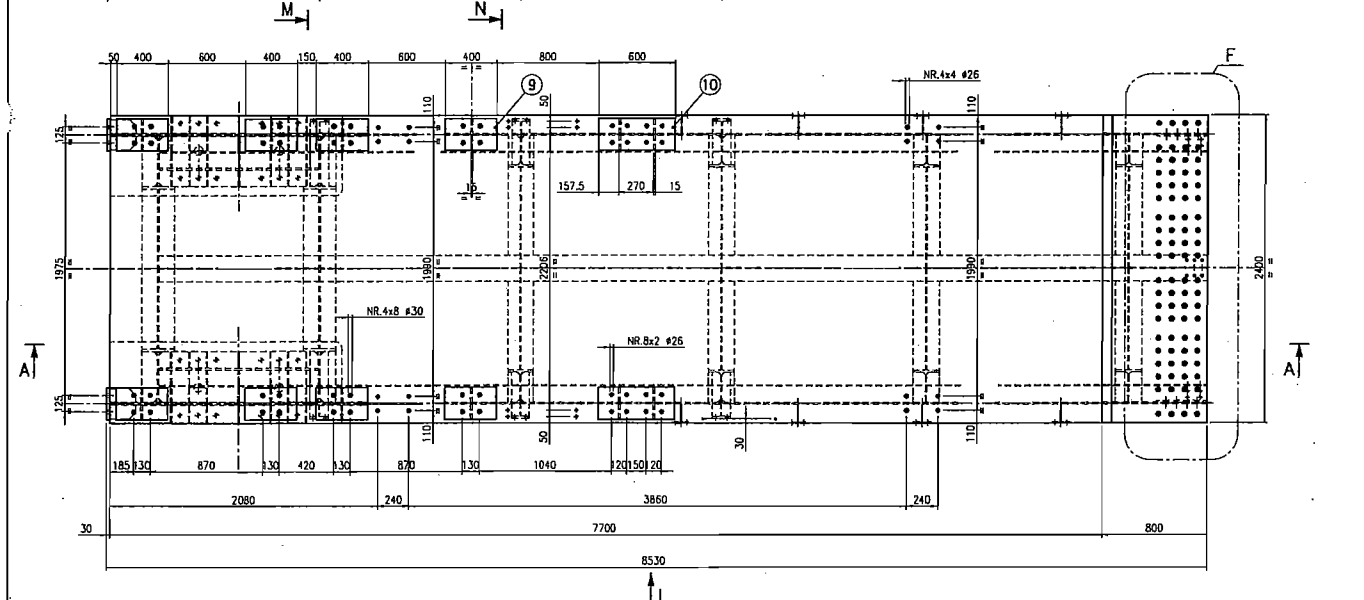
2							
1	22/10/02	REVISED WHERE INDICATED	S. GERMANO	F. DEMERGAZZI			
0	19/06/02	FIRST ISSUE	EsseTte	CUCCHIARO			
REV.	DATE	REV. OBJECT	DRAWN	CHECKED			
2 DEAL Sede e Stabilimento Via Salaria-Frazione Gorgonzola 33020-Pavesio (MI) (20126) Italy Tel.: +39 02 857 800 Fax: +39 02 407 902 e-mail: deal@deal.it		REFERENCE:	STRADDLE CARRIER SC 720 - 32				
		OBJECT:	MAIN GIRDER				
		TITLE:	GENERAL ARRANGEMENT				
		Substitutes for:	Scale	1:20	Sheet	Of	
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION		File:	T06DMADA001B.DWG				
		Formal	A1				
		Job Nr.	SubJ.Nr.	Mir.			
		-600311	-060200	----	2 2		
		Fob. Nr.	Dep.	Doc. Type	Part.	Nr. Rev.	
		T06	DM	AD	A-	001	1
CLIENT:		KIEWIT / FCI / MANSON JV					
PROJECT:		SKYWAY BRIDGE PROJECT					



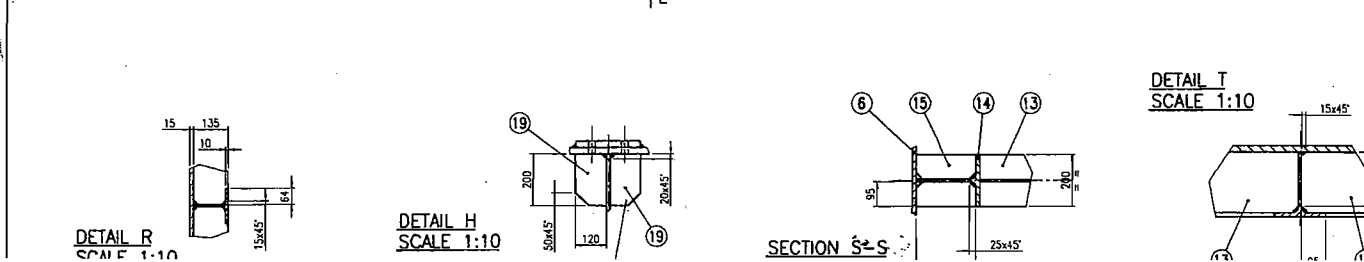
SECTION A-A



VIEW FROM L



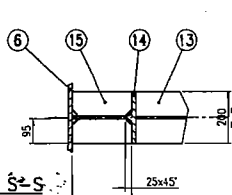
VIEW FROM A



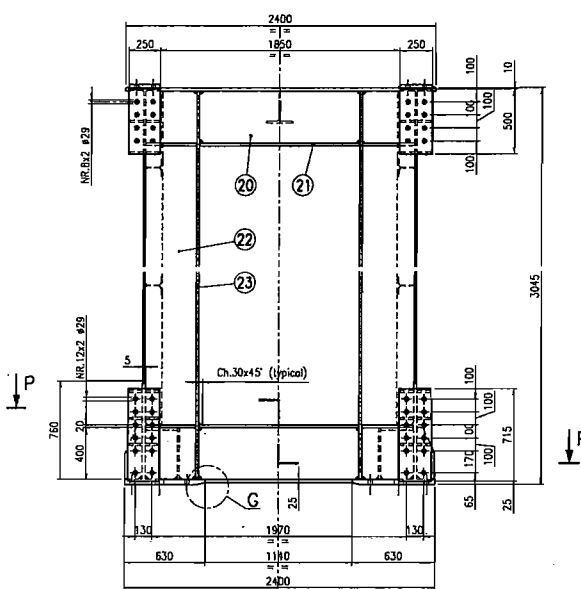
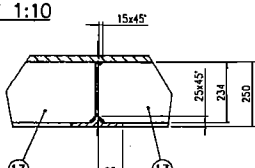
DETAIL R
SCALE 1:10

DETAIL H
SCALE 1:10

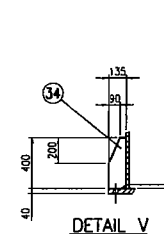
SECTION S-S



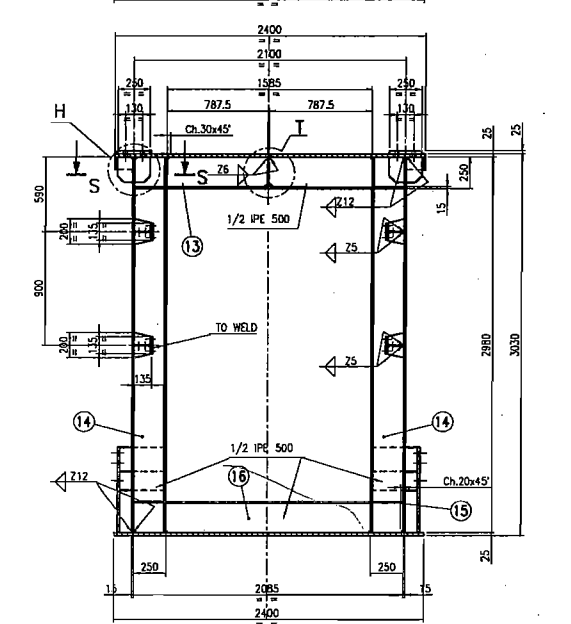
DETAIL T
SCALE 1:10



VIEW FROM P
SCALE 1:5

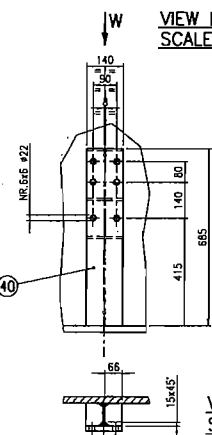


DETAIL V



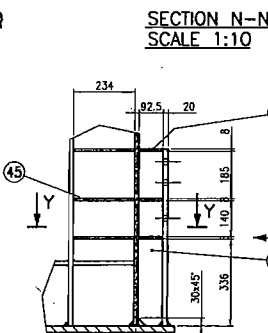
SECTION D-D

VIEW FROM Q
SCALE 1:10

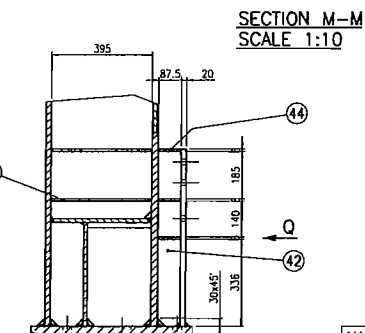


VIEW FROM W
SCALE 1:10

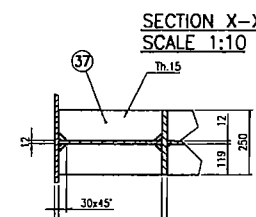
SECTION N-N
SCALE 1:10



SECTION M-M
SCALE 1:10



SECTION X-X
SCALE 1:10



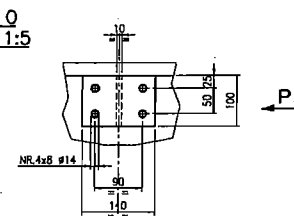
FINAL PAINTING :
ENAMEL YELLOW RAL 1007

TOTAL WEIGHT = 20140Kg

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

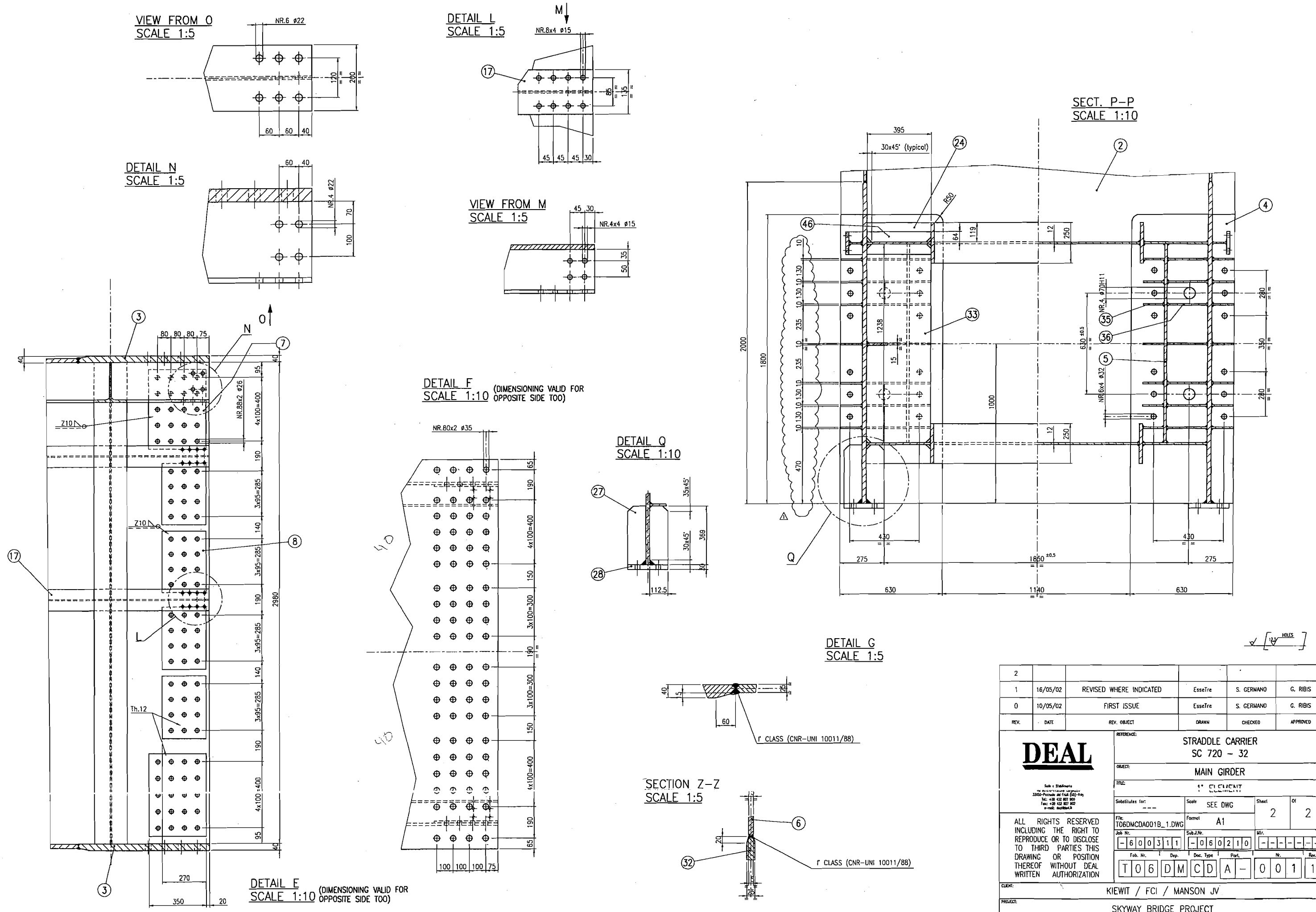
SURFACE TREATMENT FOR FRICTION JOINTS
SAND BLASTING SA 2 1/2
PAINTING WITH A PRODUCT GUARANTEEING A MINIMUM FRICTION COEFFICIENT OF $\mu = 0.45$

DETAIL O
SCALE 1:5

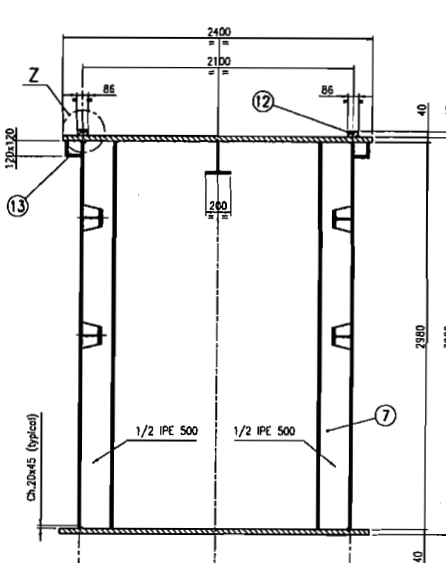


POS.	QTY	DESCRIPTION	COO.	MATERIAL	WEIGHT	NOTES
46	8	PLATE 6x45 L=305 SHAPED	*	Fe 510 C	1.5	12
45	24	PLATE 6x45 L=234 SHAPED	*	Fe 510 C	0.9	21.6
44	12	PLATE 6x45 L=87.5 SHAPED	*	Fe 510 C	0.4	4.8
43	24	PLATE 6x45 L=92.5 SHAPED	*	Fe 510 C	0.4	9.6
42	2	PLATE 87.5x8 L=685 SHAPED	*	Fe 510 C	3.7	7.4
41	4	PLATE 92.5x8 L=685 SHAPED	*	Fe 510 C	3.9	15.6
40	8	PLATE 100x10 L=140 SHAPED	*	Fe 510 C	1.1	8.8
39	8	PLATE 100x10 L=140 SHAPED	*	Fe 510 C	1.1	8.8
38	8	PLATE 100x10 L=140 SHAPED	*	Fe 510 C	1.1	8.8
37	8	PLATE 119x20 L=400 SHAPED	*	Fe 510 C	7.3	58.4
36	14	PLATE 250x10 L=380 SHAPED	*	Fe 510 C	7.4	103.6
35	14	PLATE 130x10 L=400 SHAPED	*	Fe 510 C	4	56
34	14	PLATE 130x10 L=400 SHAPED	*	Fe 510 C	3.5	49
33	2	PLATE 395x15 L=1238 SHAPED	*	Fe 510 C	57.4	114.8
32	2	PLATE 750x25 L=2000 SHAPED	*	Fe 510 C	294	588
31	2	PLATE 135x15 L=568.5 SHAPED	*	Fe 510 C	9.2	18.4
30	2	PLATE 135x15 L=1071.5 SHAPED	*	Fe 510 C	16.8	33.6
29	2	PLATE 135x15 L=893.5 SHAPED	*	Fe 510 C	14	28
28	2	PLATE 250x30 L=715 SHAPED	*	Fe 510 C	40.2	80.4
27	12	PLATE 117.5x15 L=368 SHAPED	*	Fe 510 C	4.8	57.6
26	8	PLATE 110x15 L=200 SHAPED	*	Fe 510 C	2.4	19.2
25	2	PLATE 250x30 L=500 SHAPED	*	Fe 510 C	28.2	56.4
24	4	PLATE 119x20 L=355 SHAPED	*	Fe 510 C	5.5	22
23	4	PLATE 250x20 L=2980 SHAPED	*	Fe 510 C	117	468
22	4	PLATE 400x12 L=2980 SHAPED	*	Fe 510 C	112.3	449.2
21	4	PLATE 250x20 L=1245 SHAPED	*	Fe 510 C	48.9	195.6
20	4	PLATE 400x12 L=1245 SHAPED	*	Fe 510 C	46.8	187.2
19	24	PLATE 120x15 L=200 SHAPED	*	Fe 510 C	2.7	64.8
18	4	1/2 IPE 270 L=1238 SHAPED	*	Fe 510 C	22.3	89.2
17	4	1/2 IPE 270 L=685 SHAPED	*	Fe 510 C	124	496
16	4	1/2 IPE 500 L=1585 SHAPED	*	Fe 510 C	71.9	287.6
15	32	PLATE 95x15 L=234 SHAPED	*	Fe 510 C	2.5	80
14	8	1/2 IPE 500 L=2980 SHAPED	*	Fe 510 C	135.1	1080.8
13	8	1/2 IPE 500 L=787.5 SHAPED	*	Fe 510 C	33.3	266.4
12	1	1/2 IPE 500 L=1238 SHAPED	*	Fe 510 C	56.1	56.1
11	1	1/2 IPE 500 L=685 SHAPED	*	Fe 510 C	311.5	311.5
10	2	PLATE 250x25 L=500 SHAPED	*	Fe 510 C	28.3	56.6
9	8	PLATE 250x25 L=400 SHAPED	*	Fe 510 C	19	152
8	8	PLATE 270x12 L=385 SHAPED	*	Fe 510 C	9	72
7	4	PLATE 350x12 L=500 SHAPED	*	Fe 510 C	13	52
6	2	PLATE 2980x15 L=8500 SHAPED	*	Fe 510 C	2788	5576
5	2	PLATE 400x15 L=1238 SHAPED	*	Fe 510 C	58	116
4	2	PLATE 630x40 L=1800 MACHINING	*	Fe 510 C	342	684
3	2	PLATE 2400x40 L=800 SHAPED	*	Fe 510 C	567	1134
2	1	PLATE 2400x25 L=7700 SHAPED	*	Fe 510 C	3174	3174
1	1	PLATE 2400x25 L=7700 SHAPED	*	Fe 510 C	3624	3624

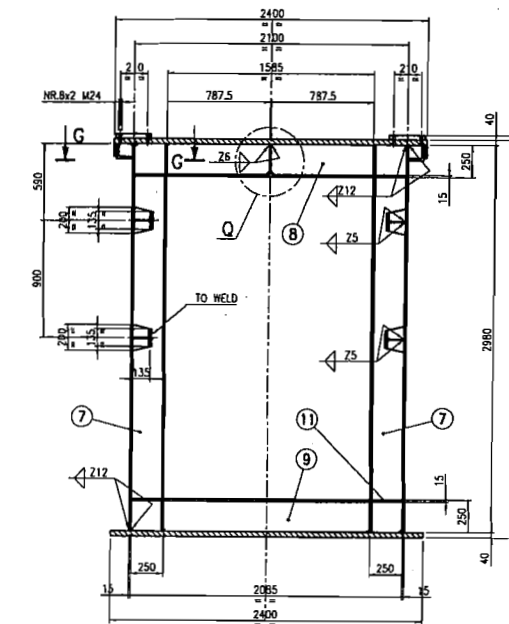
MARK A101	NR 1000	UNIT WEIGHT 20140Kg	TOTAL WEIGHT 20140Kg		
REV.	DATE	REV. OBJECT	DRYING	CHECKED	APPROVED
STRADDLE CARRIER SC 720 - 32					
MAIN GIRDER					
1' ELEMENT					
1 2					
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAR AUTHORIZATION					
KIEWIT / FCI / MANSON JV					
SKYWAY BRIDGE PROJECT					



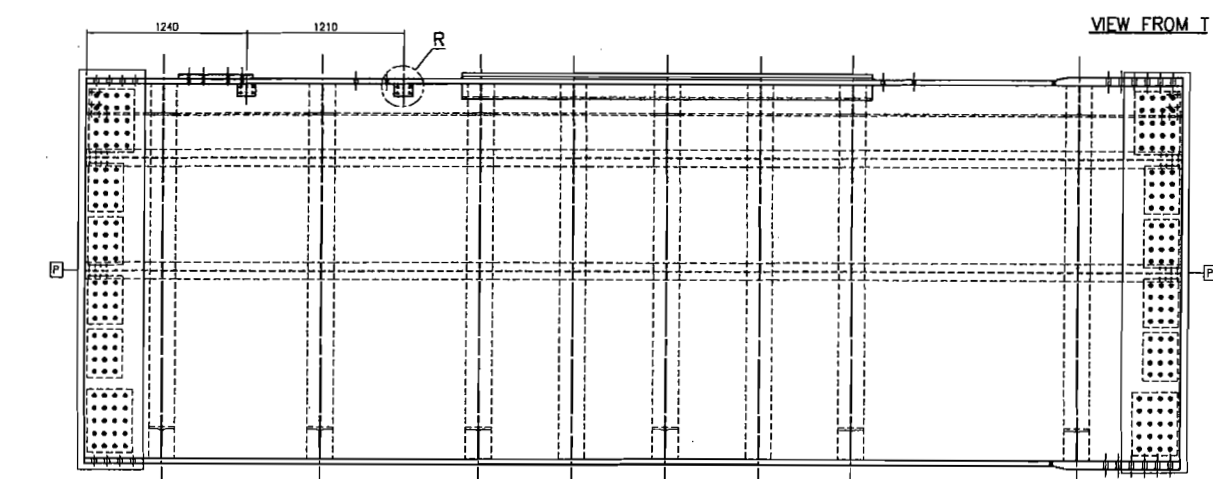
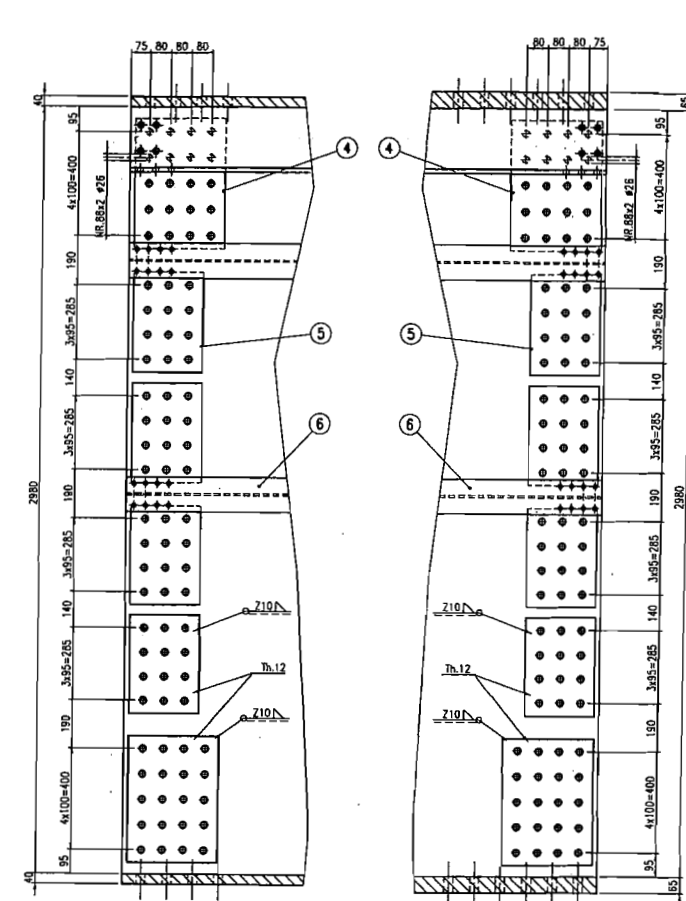
2					
1	16/05/02	REVISED WHERE INDICATED	EsseTre	S. GERMANO	G. RIBIS
0	10/05/02	FIRST ISSUE	EsseTre	S. GERMANO	G. RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
REFERENCE:			STRADDLE CARRIER SC 720 - 32		
OBJECT:			MAIN GIRDER		
TITLE:			1' ELEMENT		
Substitutes for:			Scale	SEE DWG	Sheet 2 Of 2
File: T06DMCDA001B_1.DWG			Format	A1	
Job No. 06003111			Subj. No. 06002110	Mir.	
Fab. No. T06DMCDA-00011			Doc. Type	Part.	No. Rev.
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION			KIEWIT / FCI / MANSON JV		
CLIENT:			SKYWAY BRIDGE PROJECT		
PROJECT:					



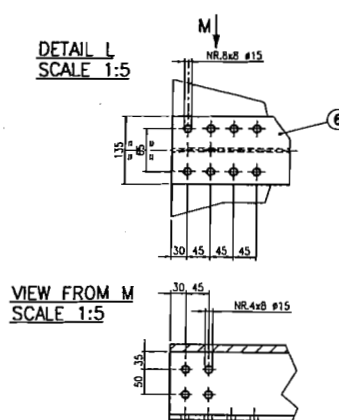
SECTION C-C



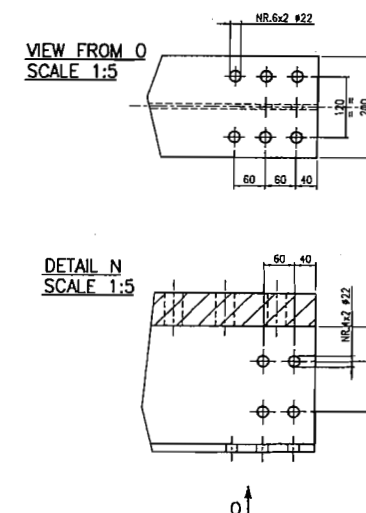
SECTION B-B



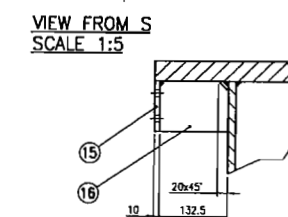
VIEW FROM T



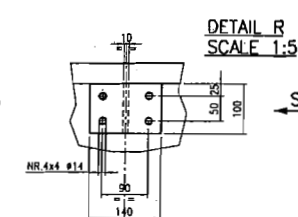
DETAIL L
SCALE 1:5



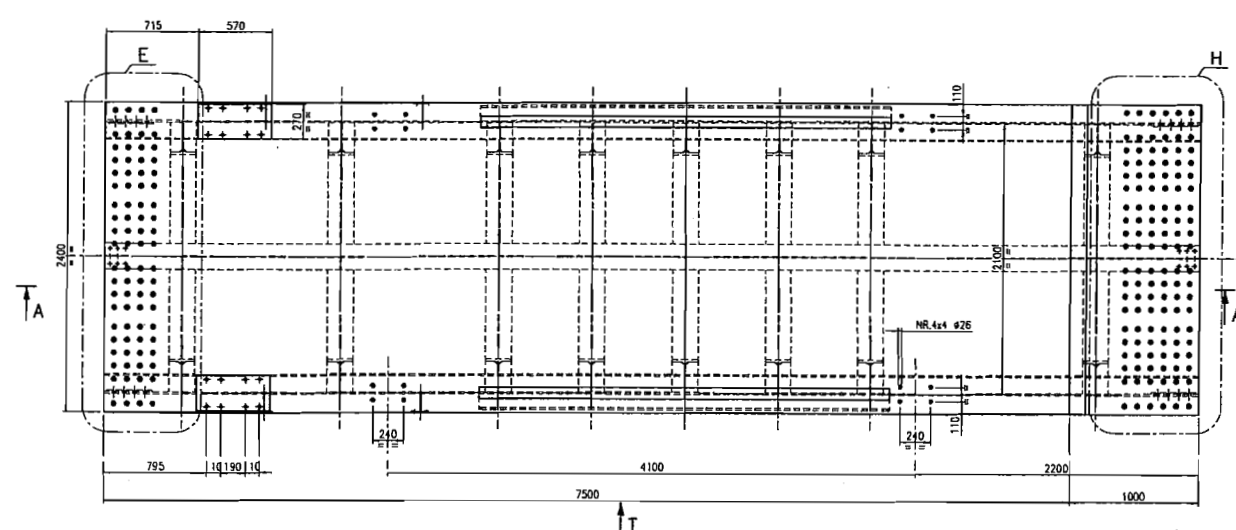
VIEW FROM C
SCALE 1:5



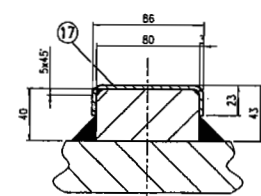
VIEW FROM S
SCALE 1:5



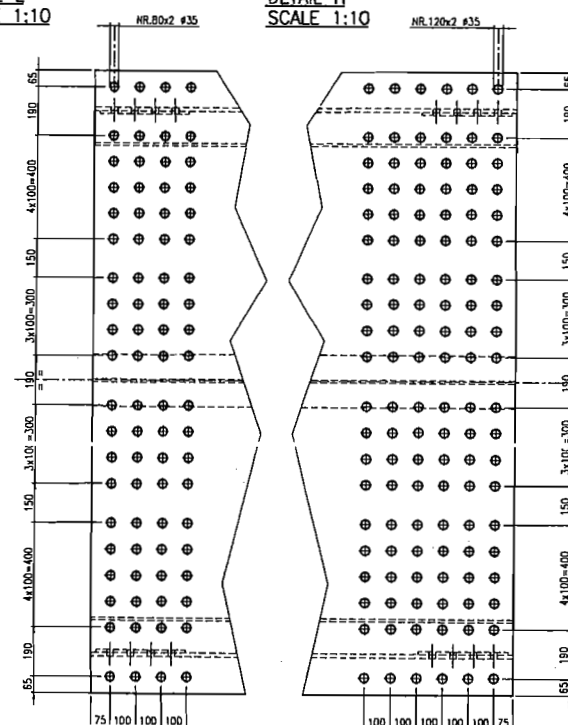
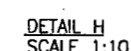
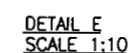
DETAIL R
SCALE 1:5



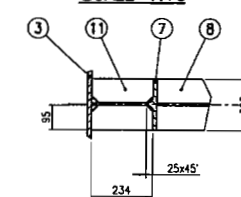
DETAIL F
SCALE 1:5



DETAIL Z
SCALE 1:2



SECTION G-G
SCALE 1:10



DETAIL Q
SCALE 1:10

FINAL PAINTING :
ENAMEL YELLOW RAL 1007
TOTAL WEIGHT = 48620Kg ^Δ

WELDING PROCEDURES :

The procedures used shall be

qualified according to EN 288-3,
DIN 99-01-06 or ASME and B

D.M. 09-01-96, or ASME sect. D

SURFACE TREATMENT FOR

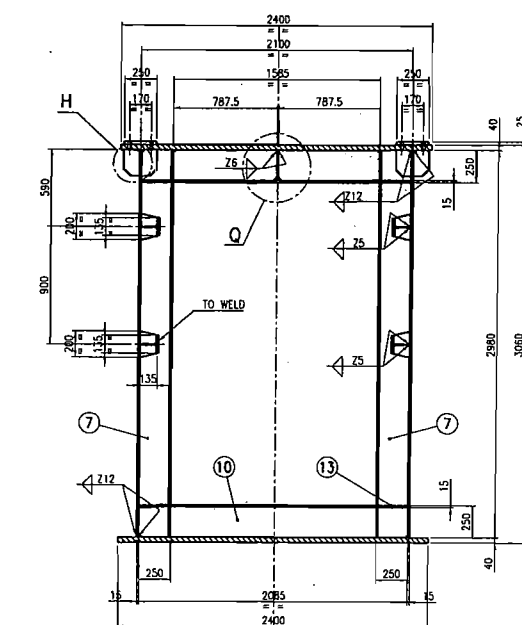
QTY	DESCRIPTION	CODE	MATERIAL	UNIT	NOTES
17	2 BENT PLATE 120x3 L=3200	*	ANSI 304	9 18	
16	4 PLATE 100x10 L=132.5 SHAPED	*	Fe S10 C	1 4	
15	4 PLATE 100x10 L=140	*	Fe S10 C	1.1 4.4	
14	2 PLATE 270x35 L=570	*	Fe S10 C	41 82	
13	2 ANGLE 120x12x15 S6 L=3200	*	Fe S10 C	85.1 170.2	
12	2 PLATE 80x40 L=3200	*	Fe S10 C	80.4 160.8	
11	48 PLATE 95x15 L=234 SHAPED	*	Fe S10 C	2.5 120	
10	1 1/2 IPE 500 L=8500	*	Fe S10 C	385.4 385.4	
9	6 1/2 IPE 500 L=1585 SHAPED	*	Fe S10 C	71.9 431.4	
8	12 1/2 IPE 500 L=787.5 SHAPED	*	Fe S10 C	33.3 399.6	
7	16 1/2 IPE 500 L=2380 SHAPED	*	Fe S10 C	13.1 216.1	
6	4 1/2 IPE 270 L=8500	*	Fe S10 C	152.4 613.6	
5	16 PLATE 270x12 L=385	*	Fe S10 C	9 144	
4	8 PLATE 350x12 L=500	*	Fe S10 C	13 104	
3	2 PLATE 280x15 L=6500	*	Fe S10 C	2982 5964	
2	2 PLATE 1000x65 L=2400 SHAPED	*	Fe S10 C	1129 2258	
1	2 PLATE 2400x40 L=7500	*	Fe S10 C	5644 11288	

1	2					
	1	16/05/02	REVISED WHERE INDICATED	Enrico	S. GERMANO	G. RIBIS
Kg	0	10/05/02	FIRST ISSUE	Enrico	S. GERMANO	G. RIBIS
Kg	REV.	DATE	REV. DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY

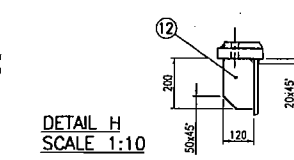
DEAL

[illegible]

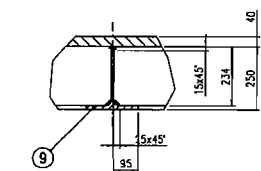
KIEWIT / FCI / MANSON



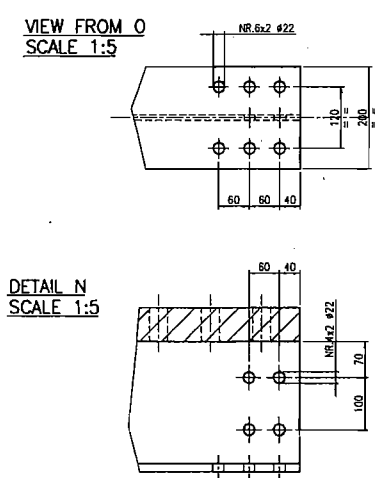
SECTION C-C



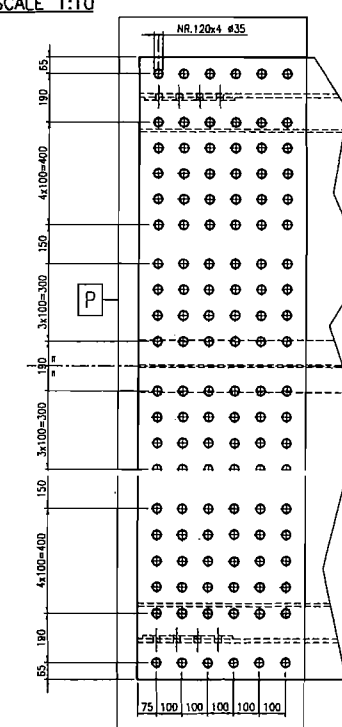
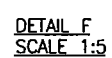
DETAIL H
SCALE 1:10



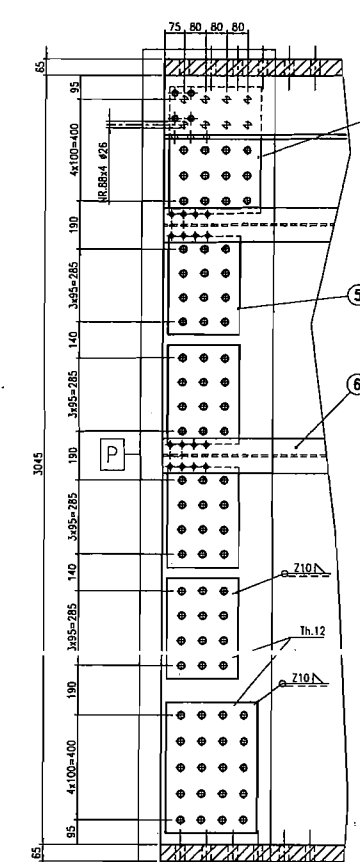
DETAIL Q
SCALE 1:10



DETAIL N
SCALE 1:5



DETAIL E
SCALE 1:10



WELDING PROCEDURES :

The procedures used shall be qualified according to EN 288-3 D.M. 09-01-96, or ASME sect.

P SURFACE TREATMENT FOR FRICTION JOINTS
SAND BLASTING SA 2 1/2
PAINTING WITH A PRODUCT GUARANTEEING
A MINIMUM FRICTION COEFFICIENT OF $\mu=0.45$

13	32	PLATE 95x15 L=234 SHAPED	*	Fe 510 C	2.5	80	
12	8	PLATE 120x15 L=200 SHAPED	*	Fe 510 C	2.7	21.8	
11	4	PLATE 250x25 L=350	*	Fe 510 C	16.7	68.65	
10	4	1/2 WFL 300 L=1585 SHAPED	*	Fe 510 C	71.9	287.8	
9	1	1/2 WFL 300 L=9000	*	Fe 510 C	408.2	498.6	
8	8	1/2 WFL 300 L=7875 SHAPED	*	Fe 510 C	33.3	266.4	
7	4	1/2 WFL 300 L=2580 SHAPED	*	Fe 510 C	135.1	1080.8	
6	4	1/2 WFL 270 L=6500	*	Fe 510 C	162.3	620	
5	16	PLATE 270x12 L=350	*	Fe 510 C	9	144	
4	8	PLATE 350x12 L=500	*	Fe 510 C	13	104	
3	8	PLATE 230x15 L=9000	*	Fe 510 C	3147	4524	
2	4	PLATE 100x65 L=2400 SHAPED	*	Fe 510 C	1129	4155	
1	2	PLATE 240x40 L=7000	*	Fe 510 C	2620	10620	
POS	QTY	DESCRIPTION	UNIT	PRICE	QTY	AMOUNT	REMARKS

Page	Q.17	Description	COO	Material	Weight	Notes
2						
1	16/05/02	REVISED WHERE INDICATED	EssaTpe	S. GERMANO		G. RIBS
0	10/05/02	FIRST ISSUE	EssaTpe	S. GERMANO		G. RIBS

DEAL

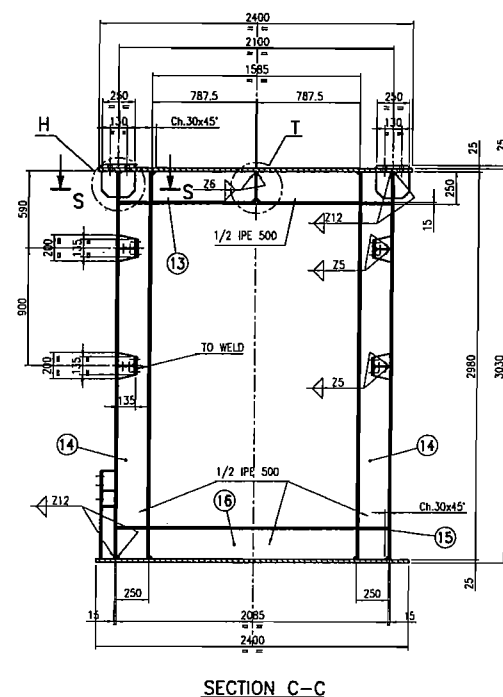
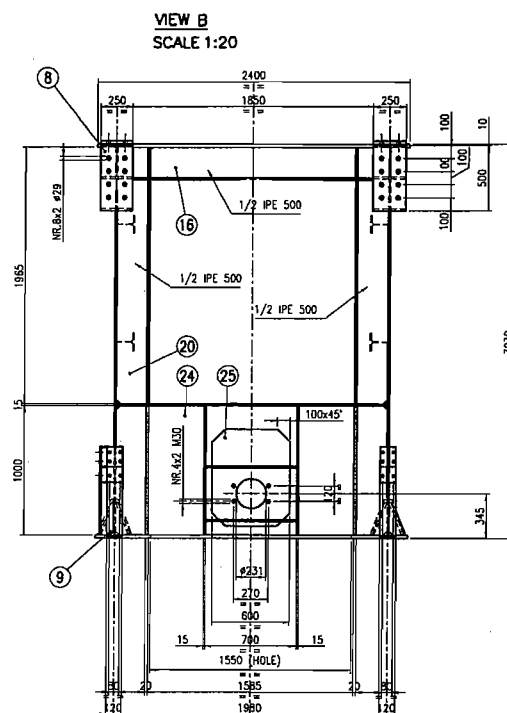
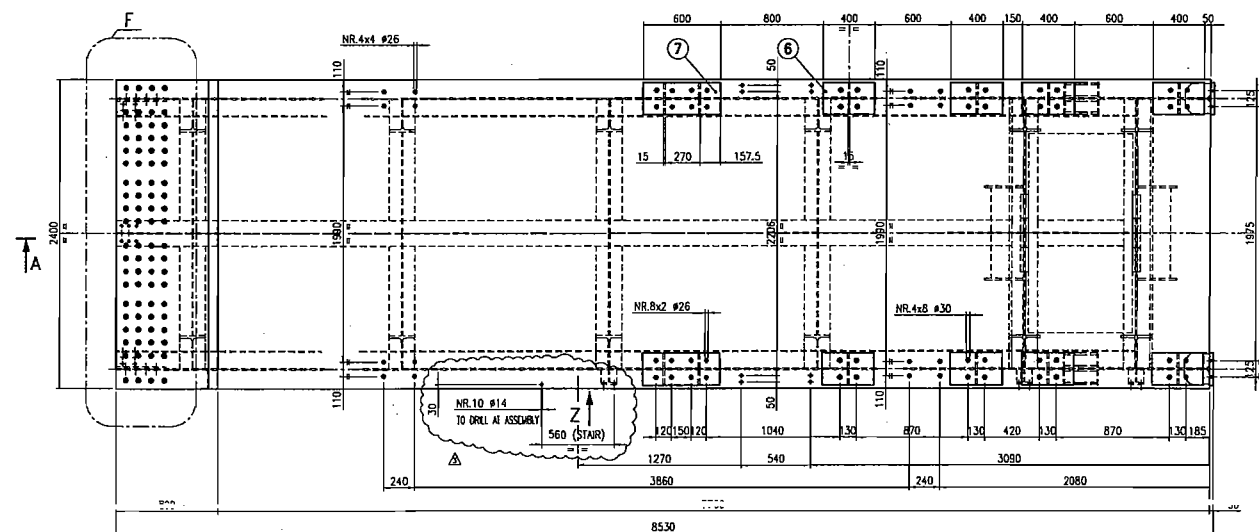
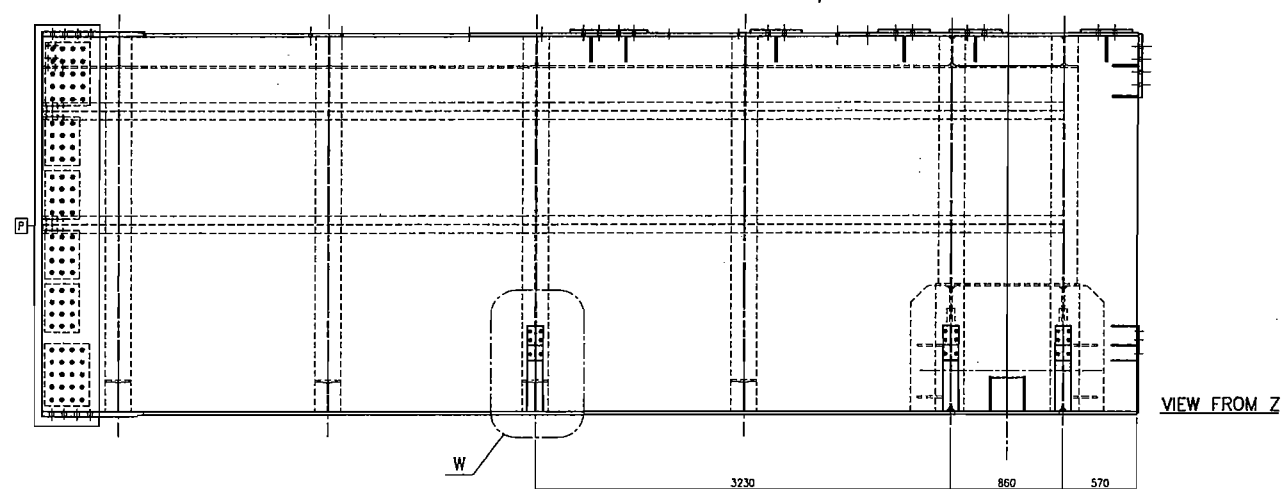
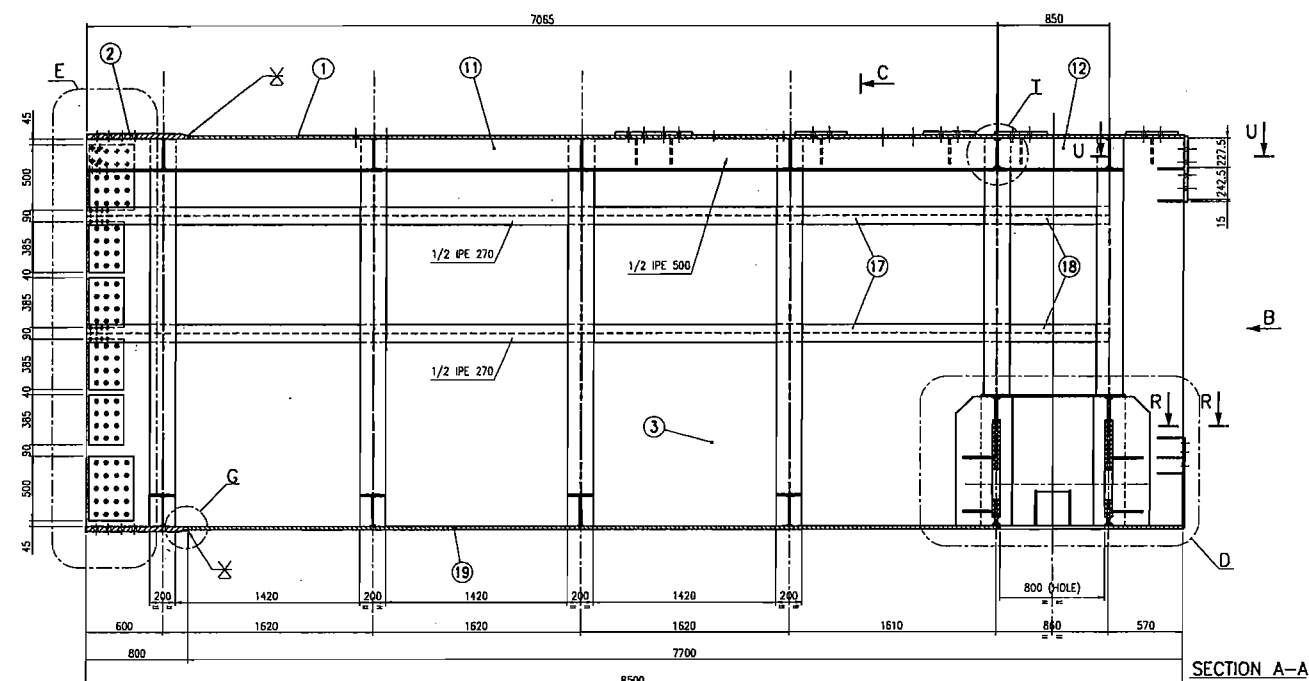
ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

REFERENCE:	STRADDLE CARRIER SC 720 - 32
GRADE:	MAIN GIRDER
TYPE:	J ELEMENT

SolarWinds/Asst. for: Date: 11/11/2011	Scale: 1:20
File: T060MCD003_1.DWG	Format: AO
Job No.:	Sub-File:

- 6 0 0 3 1 1		- 0 6 0 2 1 0	
Fm. No.		Doc. Type	
T 0 6	D M	C D	A -

KIEWIT / FCI / MANSON JV



FINAL PAINTING :
ENAMEL YELLOW RAL 1007

TOTAL WEIGHT = 19360Kg

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

P SURFACE TREATMENT FOR FRICTION JOINTS
SAND BLASTING SA 2 1/2
PAINTING WITH A PRODUCT GUARANTEEING
A MINIMUM FRICTION COEFFICIENT OF $\mu=0.45$

36	4	PLATE 250x15 L=265	*	Fe 510 C	7	28
35	8	PLATE 120x10 L=275 SHAPED	*	Fe 510 C	2	16
34	18	PLATE 56x8 L=97,5 SHAPED	*	Fe 510 C	0,3	5,4
33	3	PLATE 97,5x8 L=485 SHAPED	*	Fe 510 C	4,2	12,6
32	3	PLATE 120x15 L=685	*	Fe 510 C	9,5	28,5
31	12	PLATE 52,5x6 L=700 SHAPED	*	Fe 510 C	0,6	7,2
30	8	PLATE 110x15 L=700 SHAPED	*	Fe 510 C	2,4	19,2
27	8	PLATE 110x20 L=1000 SHAPED	*	Fe 510 C	17,2	137,6
26	4	PLATE 25x15 L=700 SHAPED	*	Fe 510 C	16,2	76,8
25	4	PLATE 600x20 L=750 SHAPED	*	Fe 510 C	60,9	243,6
24	2	PLATE 1000x20 L=2085 SHAPED	*	Fe 510 C	320,5	61
23	4	PLATE 300x15 L=1000 SHAPED	*	Fe 510 C	34,2	136,8
21	1	PLATE 1100x15 L=2085	*	Fe 510 C	270	270
20	4	1/2 PE 500 L=1955 SHAPED	*	Fe 510 C	891	356,4
19	1	PLATE 2400x25 L=7700 SHAPED	*	Fe 510 C	3380	3380
18	4	1/2 PE 270 L=850 SHAPED	*	Fe 510 C	15,3	61,2
17	4	1/2 PE 270 L=7065 SHAPED	*	Fe 510 C	127,5	510
16	6	1/2 PE 500 L=1585 SHAPED	*	Fe 510 C	71,9	431,4
15	40	5x15 L=234 SHAPED	*	Fe 510 C	2,5	100
14	8	1/2 PE 500 L=2980 SHAPED	*	Fe 510 C	135,1	1080,8
13	8	1/2 PE 500 L=787,5 SHAPED	*	Fe 510 C	33,3	256,4
12	1	1/2 PE 500 L=850 SHAPED	*	Fe 510 C	33,7	33,7
11	1	1/2 PE 500 L=7065 SHAPED	*	Fe 510 C	318	318
10	24	PLATE 120x15 L=700 SHAPED	*	Fe 510 C	27	64,8
9	2	PLATE 120x15 L=695	*	Fe 510 C	9,6	19,2
8	2	PLATE 250x30 L=500	*	Fe 510 C	28,2	56,4
7	2	PLATE 250x25 L=600	*	Fe 510 C	28,3	56,5
6	8	PLATE 250x25 L=400	*	Fe 510 C	19	152
5	8	PLATE 270x12 L=385	*	Fe 510 C	9	72
4	4	PLATE 350x12 L=500	*	Fe 510 C	13	52
3	2	PLATE 280x15 L=8500	*	Fe 510 C	238,3	5956
2	2	PLATE 800x40 L=2400 SHAPED	*	Fe 510 C	58	1136
1	1	PLATE 2400x25 L=7700 SHAPED	*	Fe 510 C	3624	3624

POS.	QTY	DESCRIPTION	COO.	MATERIAL	UNIT WEIGHT	QTY.	NOTES
3	06/08/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO		6. RBS	
2	03/06/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO		6. RBS	
1	16/05/02	REVISED WHERE INDICATED	EnaTre	S. GERMANO		6. RBS	
D	10/05/02	FIRST ISSUE	EnaTre	S. GERMANO		6. RBS	
REV.	DATE	REV. OBJECT	REV.	REV.			

DEAL

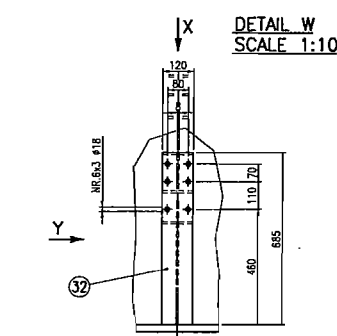
STRADDLE CARRIER
SC 720 - 32

MAIN GIRDER
5" ELEMENT

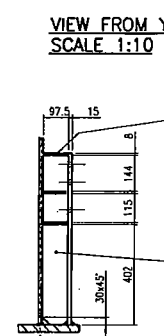
5' ELEMENT

ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT ORAL WRITTEN AUTHORIZATION	File No. <u>106-000440044-3,010</u>		Format <u>AO</u>		1 2	
	Job No.		Sub Job		Pgs.	
	<u>1060310</u>		<u>1060210</u>		<u>1-1-1-1-1-1</u>	
	Est. No.	Days	Doc. type	Part.	Nr.	Rec.
<u>T06DM</u>	<u>CD</u>	<u>A-</u>	<u>0043</u>			

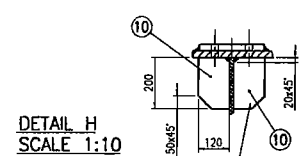
KIEWIT / FCI / MANSON JV



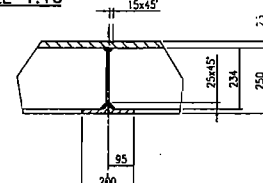
VIEW FROM X
SCALE 1:10



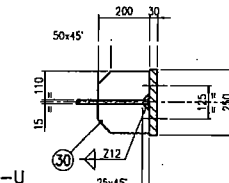
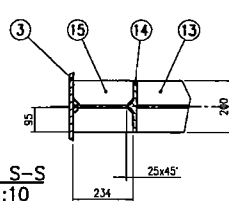
SECTION S-
SCALE 1:10

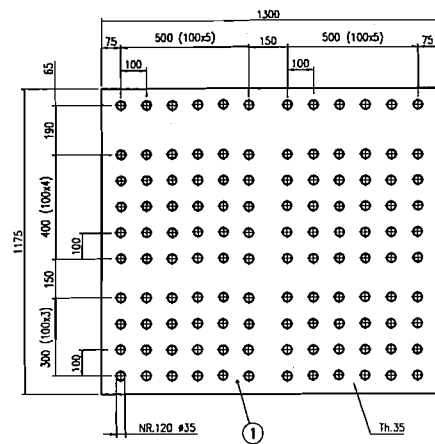


DETAIL T
SCALE 1:10

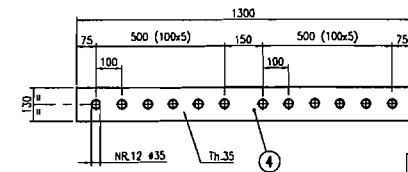


SECTION U-U
SCALE 1:10

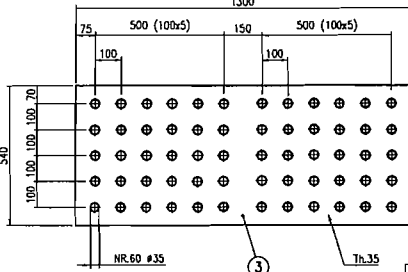




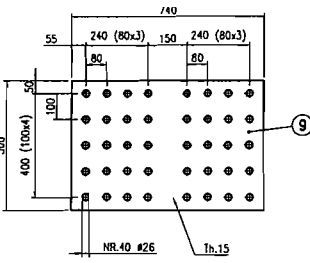
MARK A2104
NR. PIECES 8
UNIT WEIGHT 46.2 Kg
TOTAL WEIGHT 369.6 Kg



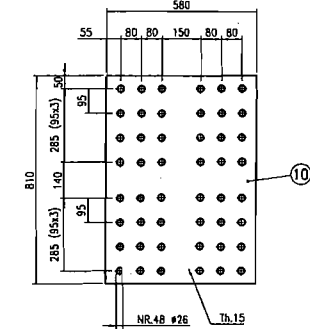
MARK A2109
NR. PIECES 32
UNIT WEIGHT 41 Kg
TOTAL WEIGHT 1312 Kg



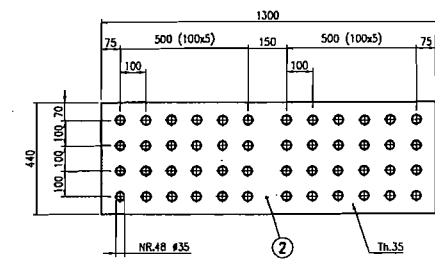
MARK A2103
NR. PIECES 8
UNIT WEIGHT 177 Kg
TOTAL WEIGHT 1416 Kg



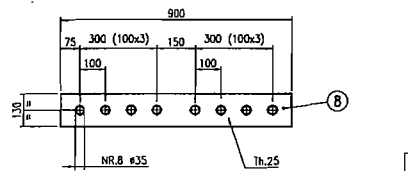
MARK A2110
NR. PIECES 16
UNIT WEIGHT 52.3 Kg
TOTAL WEIGHT 836.8 Kg



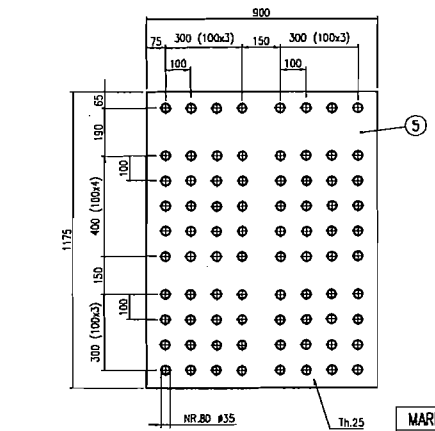
MARK A2111
NR. PIECES 32
UNIT WEIGHT 24.8 Kg
TOTAL WEIGHT 793.6 Kg



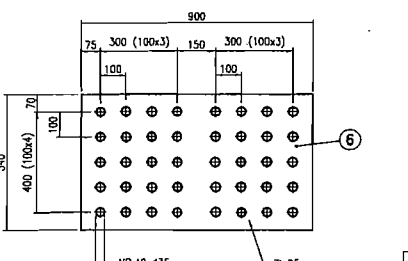
MARK A2102
NR. PIECES 8
UNIT WEIGHT 144.5 Kg
TOTAL WEIGHT 1158 Kg



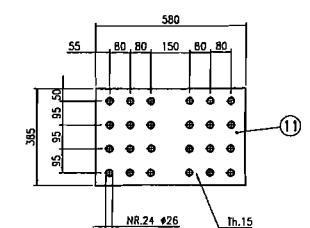
MARK A2108
NR. PIECES 8
UNIT WEIGHT 21.4 Kg
TOTAL WEIGHT 171.2 Kg



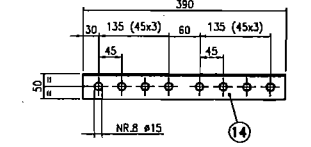
MARK A2105
NR. PIECES 8
UNIT WEIGHT 192.4 Kg
TOTAL WEIGHT 1539.2 Kg



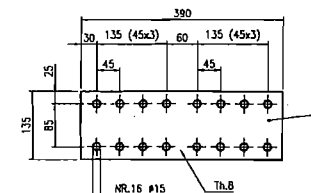
MARK A2106
NR. PIECES 8
UNIT WEIGHT 87.8 Kg
TOTAL WEIGHT 702.4 Kg



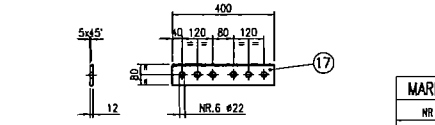
MARK A2115
NR. PIECES 4
UNIT WEIGHT 7.1 Kg
TOTAL WEIGHT 28.4 Kg



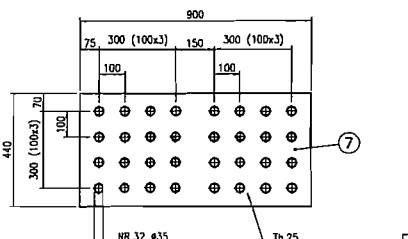
MARK A2114
NR. PIECES 32
UNIT WEIGHT 1.1 Kg
TOTAL WEIGHT 35.2 Kg



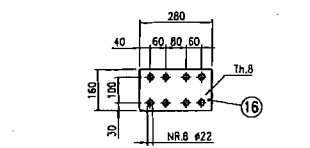
MARK A2112
NR. PIECES 16
UNIT WEIGHT 3.1 Kg
TOTAL WEIGHT 49.6 Kg



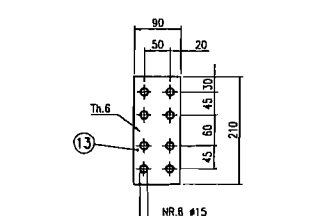
MARK A2117
NR. PIECES 8
UNIT WEIGHT 2.8 Kg
TOTAL WEIGHT 22.4 Kg



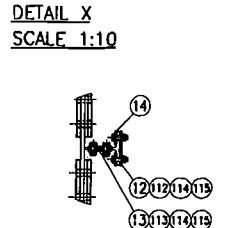
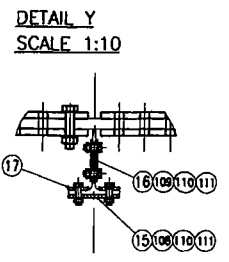
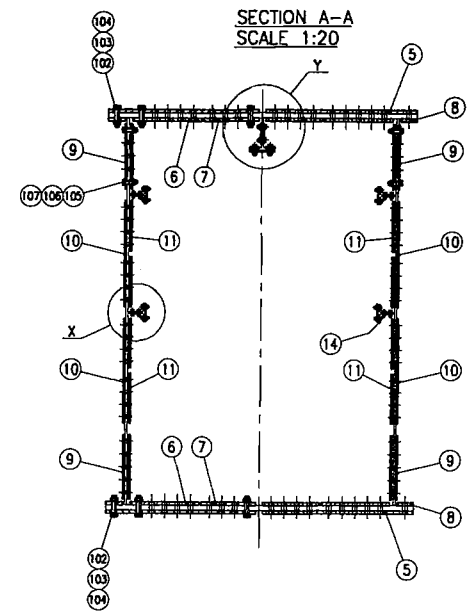
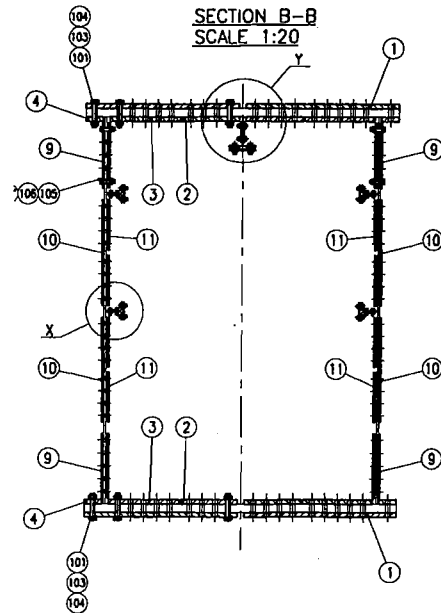
MARK A2107
NR. PIECES 8
UNIT WEIGHT 71.7 Kg
TOTAL WEIGHT 572.8 Kg



MARK A2116
NR. PIECES 32
UNIT WEIGHT 2.6 Kg
TOTAL WEIGHT 20.8 Kg



MARK A2113
NR. PIECES 32
UNIT WEIGHT 0.8 Kg
TOTAL WEIGHT 25.6 Kg



FINAL PAINTING :
ENAMEL YELLOW RAL 1007
TOTAL WEIGHT = 12156Kg

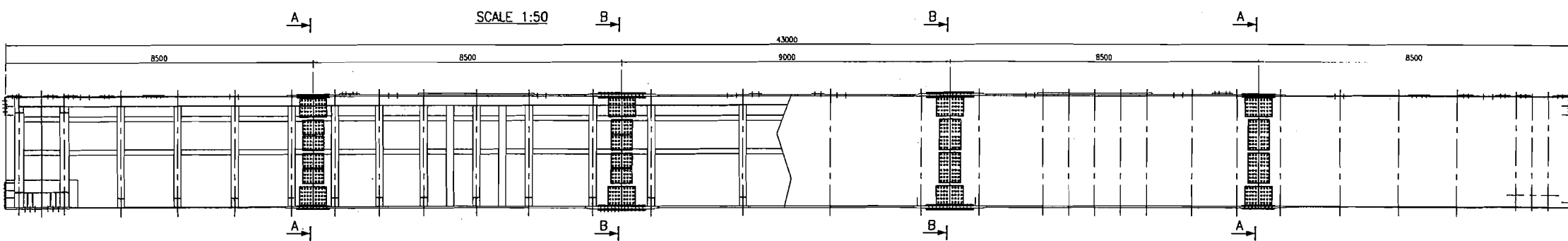
SURFACE TREATMENT FOR FRICTION JOINTS
SAND BLASTING SA 2 1/2
PAINTING WITH A PRODUCT GUARANTEEING
A MINIMUM FRICTION COEFFICIENT OF $\mu=0.45$

115	788	WASHER 15 UNI 5714	*	C50	*	*
114	384	NUT M14 UNI 5713	*	10	*	*
113	128	SCREW M14x45 UNI 5712	*	10.9	*	*
112	256	SCREW M14x50 UNI 5712	*	10.9	*	*
111	160	WASHER 21 UNI 5714	*	C50	*	*
110	80	NUT M20 UNI 5713	*	10	*	*
109	32	SCREW M20x60 UNI 5712	*	10.9	*	*
108	48	SCREW M20x70 UNI 5712	*	10.9	*	*
107	2816	WASHER 25 UNI 5714	*	C50	*	*
106	1408	NUT M24 UNI 5713	*	10	*	*
105	1408	SCREW M24x100 UNI 5712	*	10.9	*	*
104	3200	WASHER 34 UNI 5714	*	C50	*	*
103	1600	NUT M33 UNI 5713	*	10	*	*
102	640	SCREW M33x150 UNI 5712	*	10.9	*	*
101	960	SCREW M33x190 UNI 5712	*	10.9	*	*

17	8	PLATE 80x12 L=400	*	Fe 510 C	2.8	22.4
16	8	PLATE 160x8 L=280	*	Fe 510 C	2.6	20.8
15	4	PLATE 200x12 L=400	*	Fe 510 C	7.1	28.4
14	32	PLATE 50x8 L=390	*	Fe 510 C	1.1	35.2
13	32	PLATE 90x6 L=210	*	Fe 510 C	0.8	25.6
12	16	PLATE 135x8 L=390	*	Fe 510 C	3.1	49.6
11	32	PLATE 385x15 L=580	*	Fe 510 C	24.8	793.6
10	16	PLATE 560x15 L=810	*	Fe 510 C	52.3	836.8
9	32	PLATE 500x15 L=740	*	Fe 510 C	41	1312
8	8	PLATE 130x25 L=900	*	Fe 510 C	21.4	171.2
7	8	PLATE 440x25 L=900	*	Fe 510 C	71.7	572.8
6	8	PLATE 540x25 L=900	*	Fe 510 C	87.8	702.4
5	8	PLATE 900x25 L=1175	*	Fe 510 C	192.4	1539.2
4	8	PLATE 130x25 L=1300	*	Fe 510 C	46.2	369.6
3	8	PLATE 540x25 L=1300	*	Fe 510 C	177	1416
2	8	PLATE 440x25 L=1300	*	Fe 510 C	144.5	1158
1	8	PLATE 1175x35 L=1300	*	Fe 510 C	368	3104

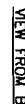
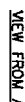
POS.	QTY.	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	NOTES
2						
1						
0	20-05-02	FIRST ISSUE	Escire	S. GERNARD	C. REIS	
REV.	DATE	REV. OBJECT	DESIGN	CHECKED	APPROVED	

DEAL		STRADDLE CARRIER SC 720 - 32	
OBJET: MAIN GIRDER		JUNCTION PLATES	
Scale: 1:10		Date: 1 1	
TOSOMACON21.DWG		AD	
[0603210]		[0603210]	
T06DMCD A-0210			
KIEWIT / FCI / MANSON JV			





CLIENT:	KIEWIT / FCI / MANSON JV
PROJECT:	SKYWAY BRIDGE PROJECT S. FRANCISCO - OAKLAND BAY BRIDGE - USA

TOTAL WEIGHT 221150 kg

DEAL

STRADDLE CARRIAGE
SC 720 - 32

[illegible]

Section	Scale	Sheet	Lot
Section 1	1:75	1:25	1

PK	Formid	
705TPAD001.DWG	A0	

[illegible]

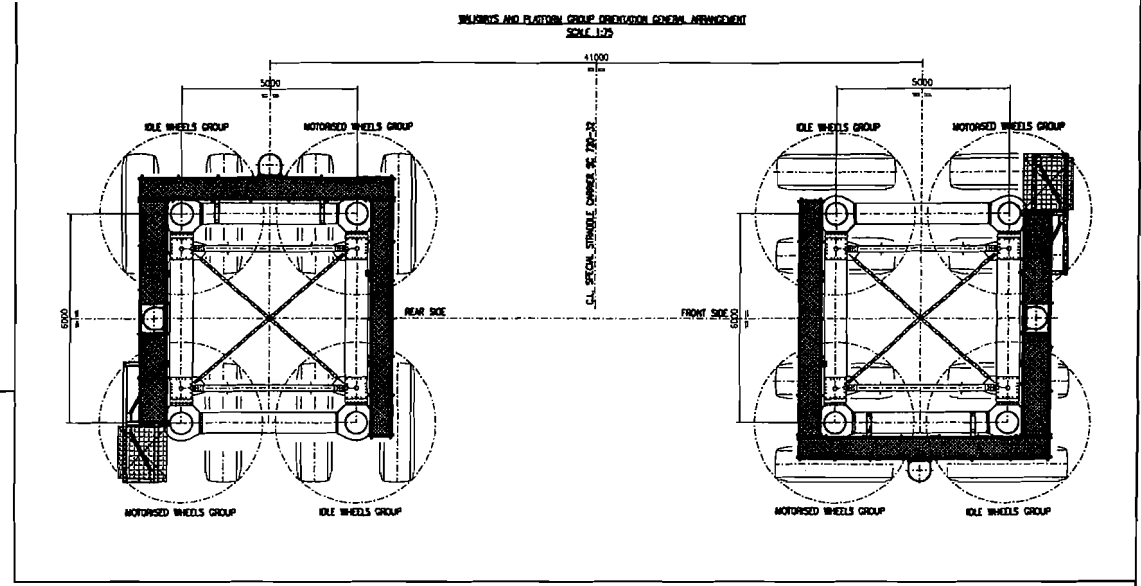
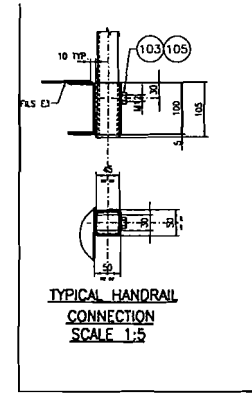
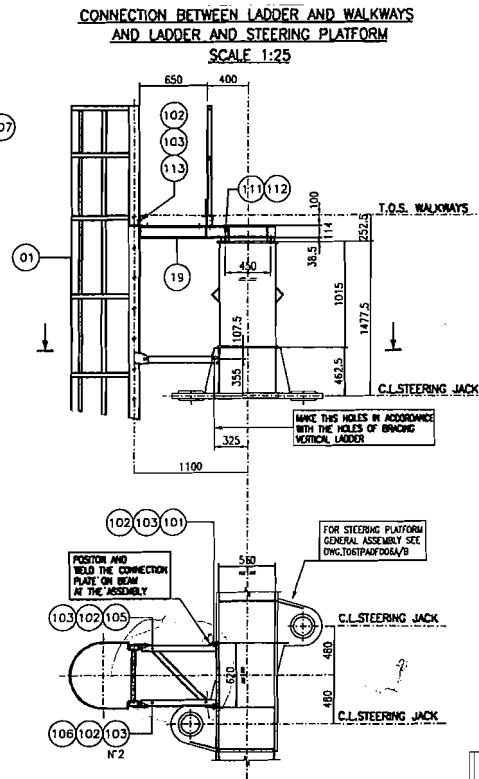
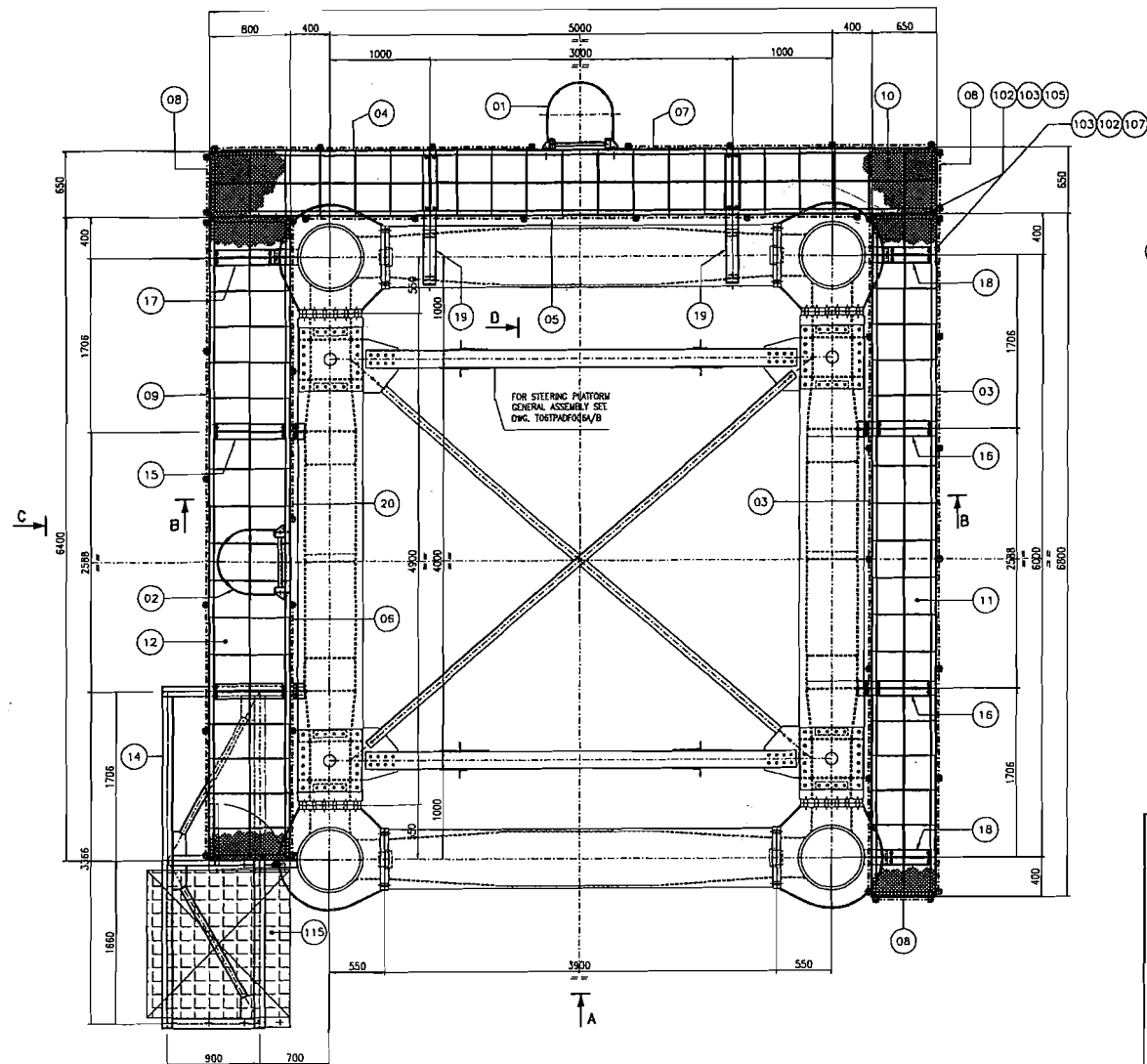
-	6	0	0	3	1	1	-	0	6	0	3	0	8	-	-	-	-	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1001PAD F-001

LEWIS / FCI / MANSON, IV

[illegible]

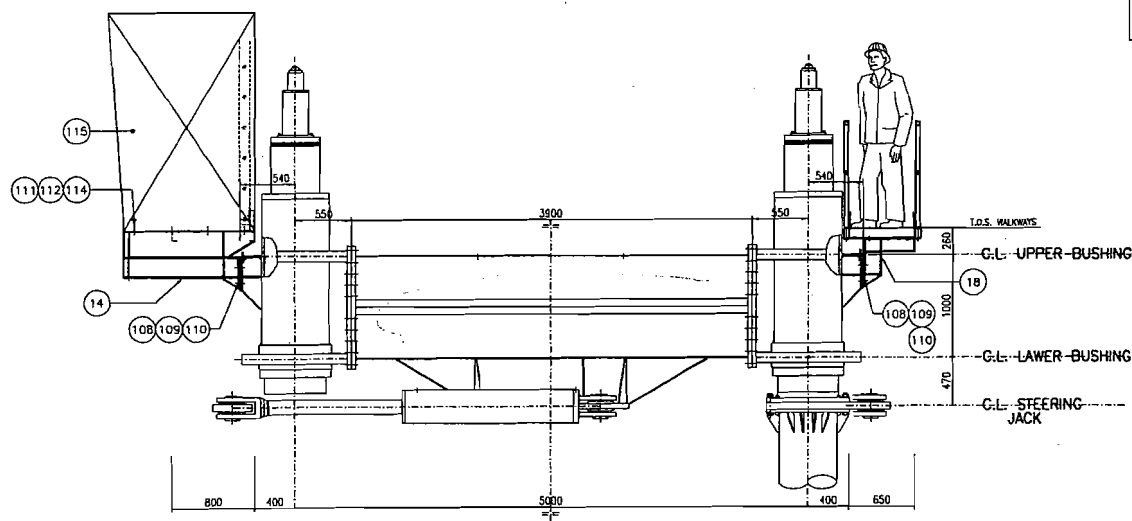


NOTES:
FOR TROLLEY GENERAL ASSEMBLY SEE DWG. T06TPAD001
FOR STEERING PLATFORM WITH EQUALISING JACK GENERAL ARRANGEMENT SEE DWG. T06TPAD006A/B
FOR WALKWAYS SUPPORTS TO WELD ON STEERING PLATFORM SEE DWG. T06TPAD003

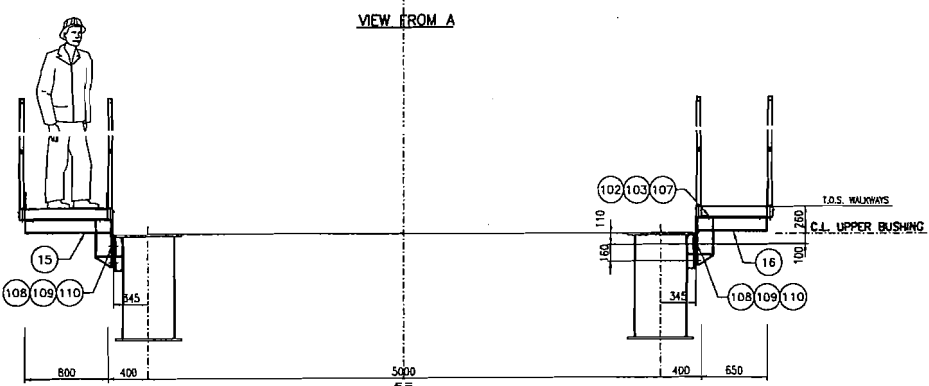
POS.	QTY.	DESCRIPTION	MATER.	CODE	W.U.	W.T.	NOTE
115	2	OPERATING CAB "OMG"			800	1600	COMM.
114	16	NUT M16 UNI 5588 6S					COMM.
113	12	SCREW M12x35 UNI 5739 8.8					COMM.
112	48	WASHER #17x30 UNI 6592 R40					COMM.
111	32	SCREW M16x40 UNI 5739 8.8					COMM.
110	64	SCREW M20x75 UNI 5737 8.8					COMM.
109	64	NUT M20 UNI 5588 6S					COMM.
108	128	WASHER #21x37 UNI 6592 R40					COMM.
107	72	SCREW M12x40 UNI 5739 8.8					COMM.
106	4	SCREW M12x45 UNI 5737 8.8					COMM.
105	116	SCREW M12x30 UNI 5739 8.8					COMM.
103	220	NUT M12 UNI 5588 6S					COMM.
102	240	WASHER #13x24 UNI 6592 R40					COMM.
101	8	SCREW M12x50 UNI 5737 8.8					COMM.

ATTENTION:
THIS MATERIALS LIST IS FOR THE CONSTRUCTION
OF Nr. 2 WALKWAYS AND PLATFORM GROUP

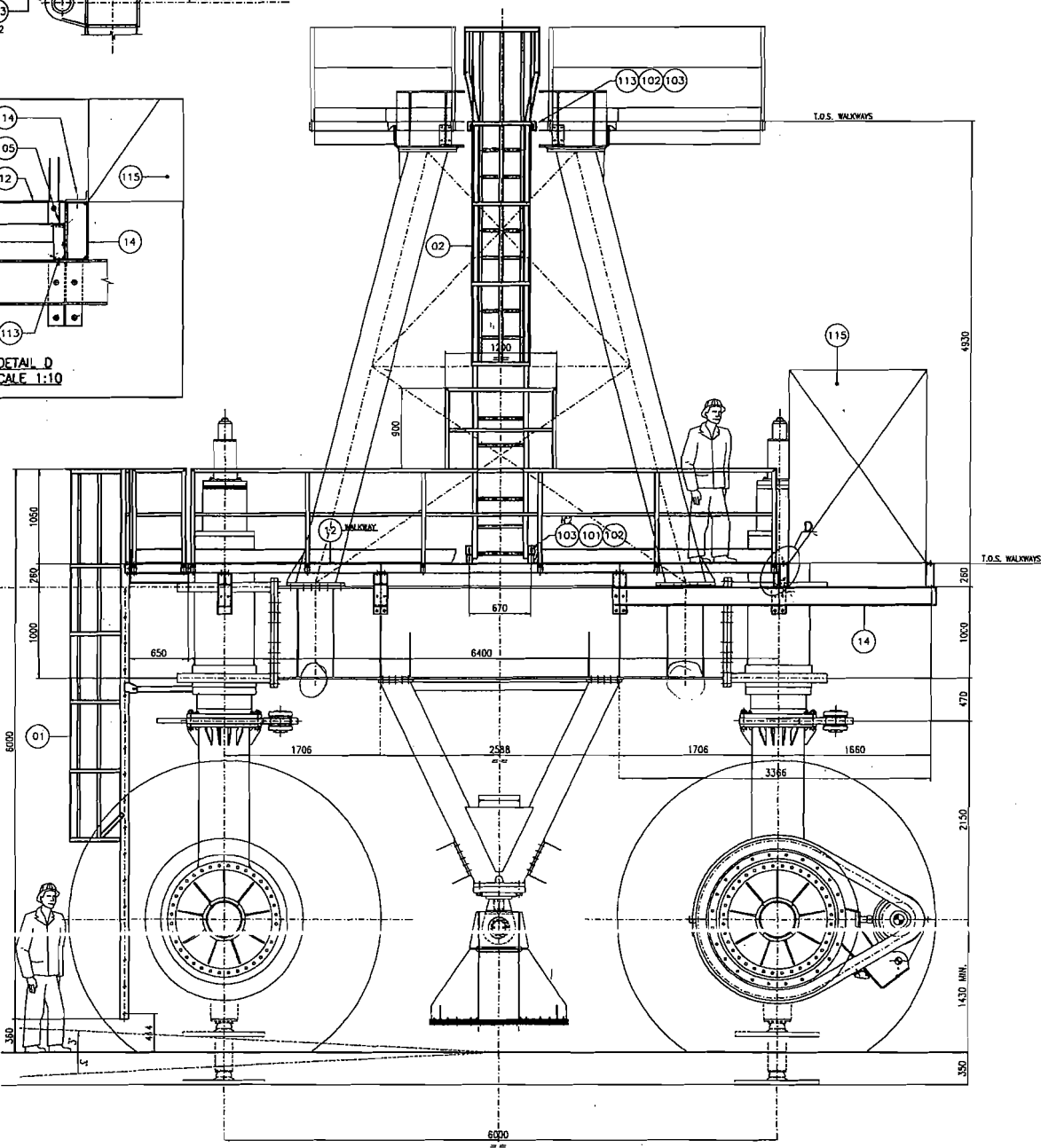
UNIT WEIGHT 2855 Kg
TOTAL WEIGHT 5710 Kg



VIEW FROM A



SECTION B-B



VIEW FROM C

POS.	QTY.	DESCRIPTION	MATER.	CODE	W.U.	W.T.	NOTE
20	2	HANDRAILS	F2605	36	71		
19	4	WALKWAYS SUPPORT	F2905	28	112		
18	4	WALKWAYS SUPPORT	F2904	29	117		
17	2	WALKWAYS SUPPORT	F2903	33	66		
16	4	WALKWAYS SUPPORT	F2902	34	136		
15	2	WALKWAYS SUPPORT	F2901	38	75		
14	2	PLATFORM	F2801	327	654		
13	2	SUPPORT	F2704	6	11		
12	2	WALKWAYS	F2703	246	491		
11	2	WALKWAYS	F2702	238	477		
10	2	WALKWAYS	F2701	229	458		
09	2	HANDRAILS	F2604	87	174		
08	6	HANDRAILS	F2603	12	74		
07	2	HANDRAILS	F2602	36	71		
06	2	HANDRAILS	F2601	32	64		
05	2	HANDRAILS	F2503	48	96		
04	2	HANDRAILS	F2502	24	49		
03	4	HANDRAILS	F2501	56	226		
02	2	LADDER	F2401	166	331		
01	2	LADDER	F2301	176	353		

DEAL

STRADDLE CARRIER
SC 720 - 32

TROLLEYS AND SUPPORT

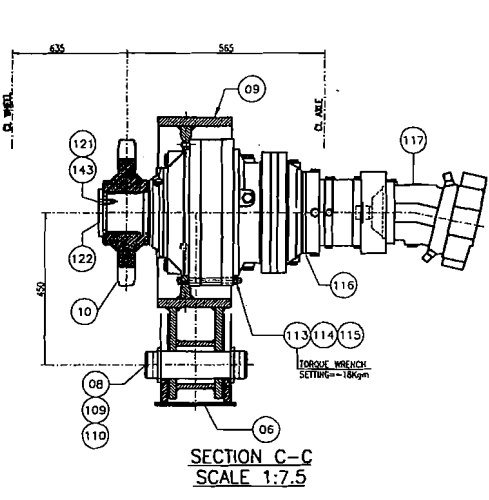
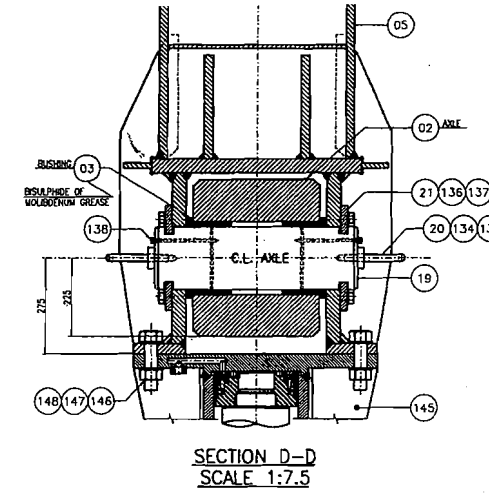
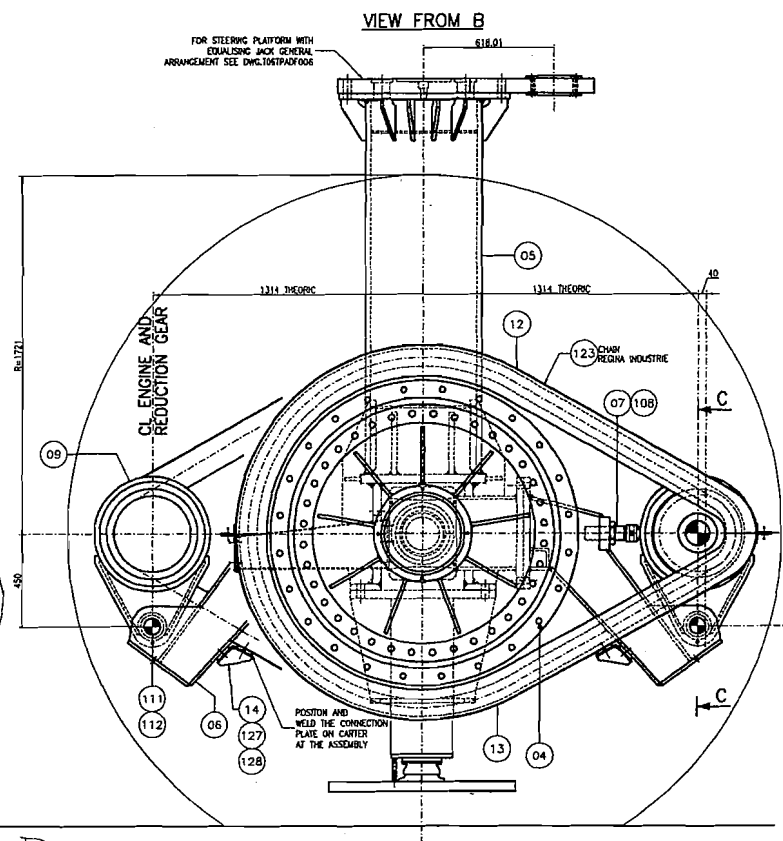
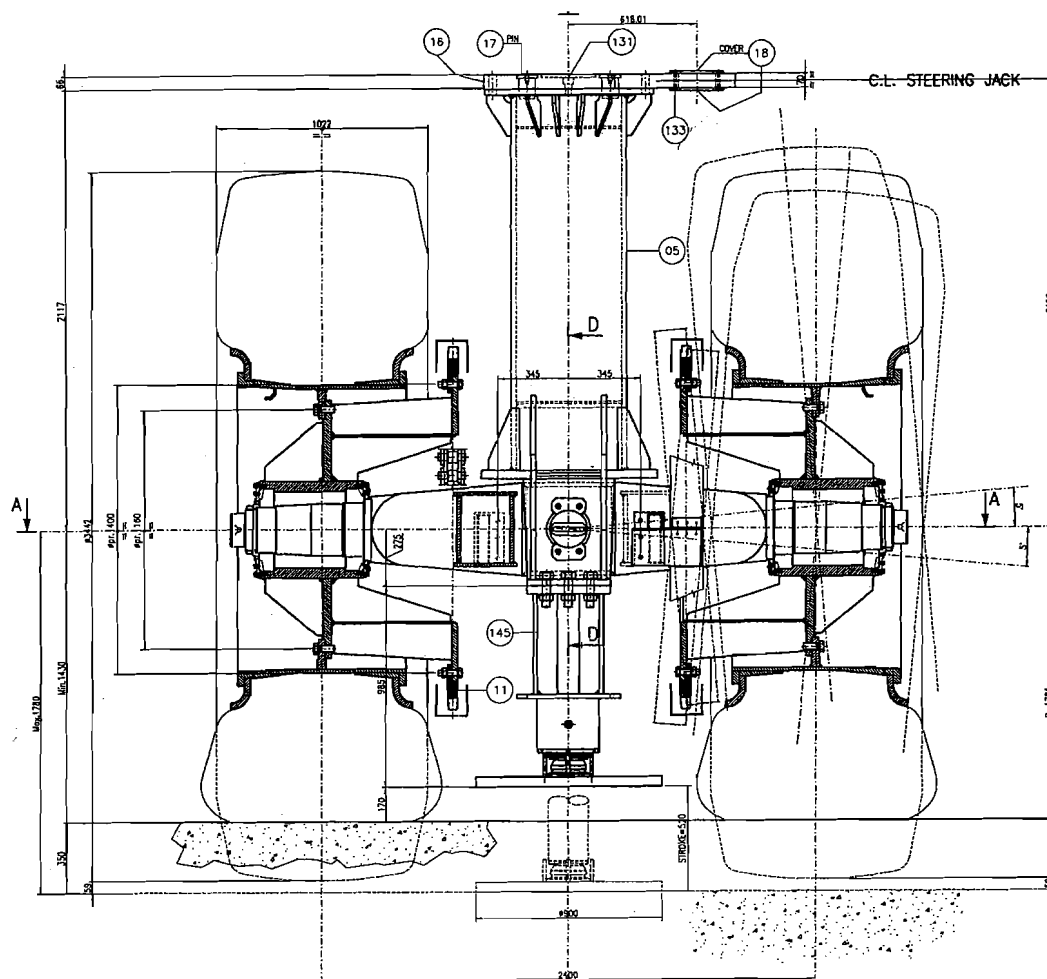
WALKWAYS AND PLATFORM GENERAL ARRANGEMENT

Scale: 1:25 1:25 1:10 1:5

Sheet: 1 of 1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DECA
WRITTEN AUTHORIZATION

KIEWIT / FCI / MANSON JV



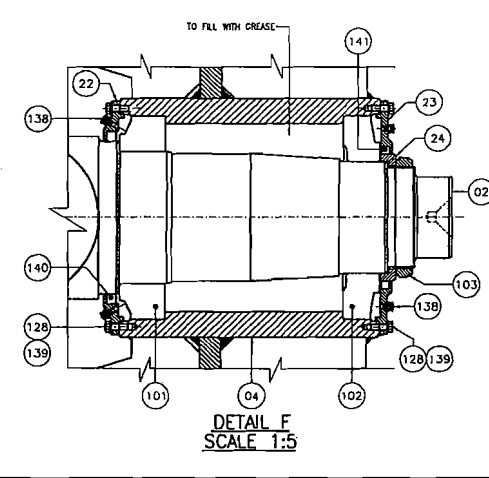
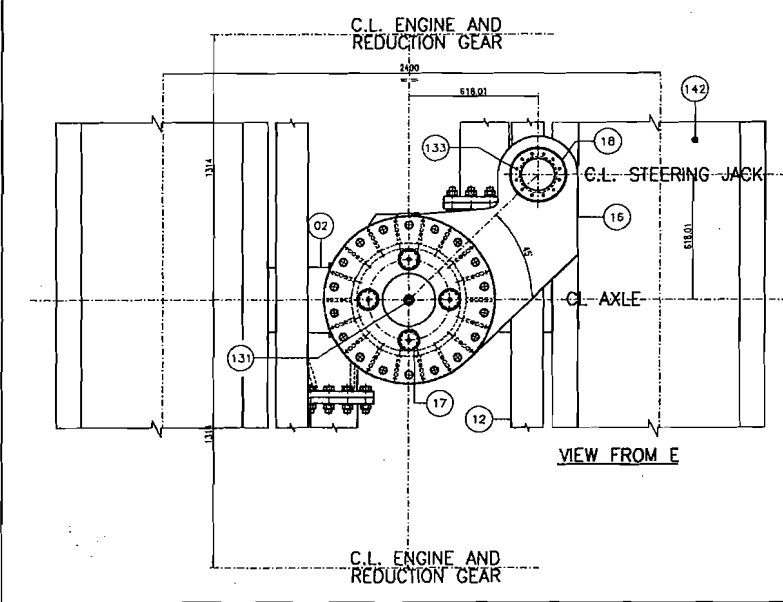
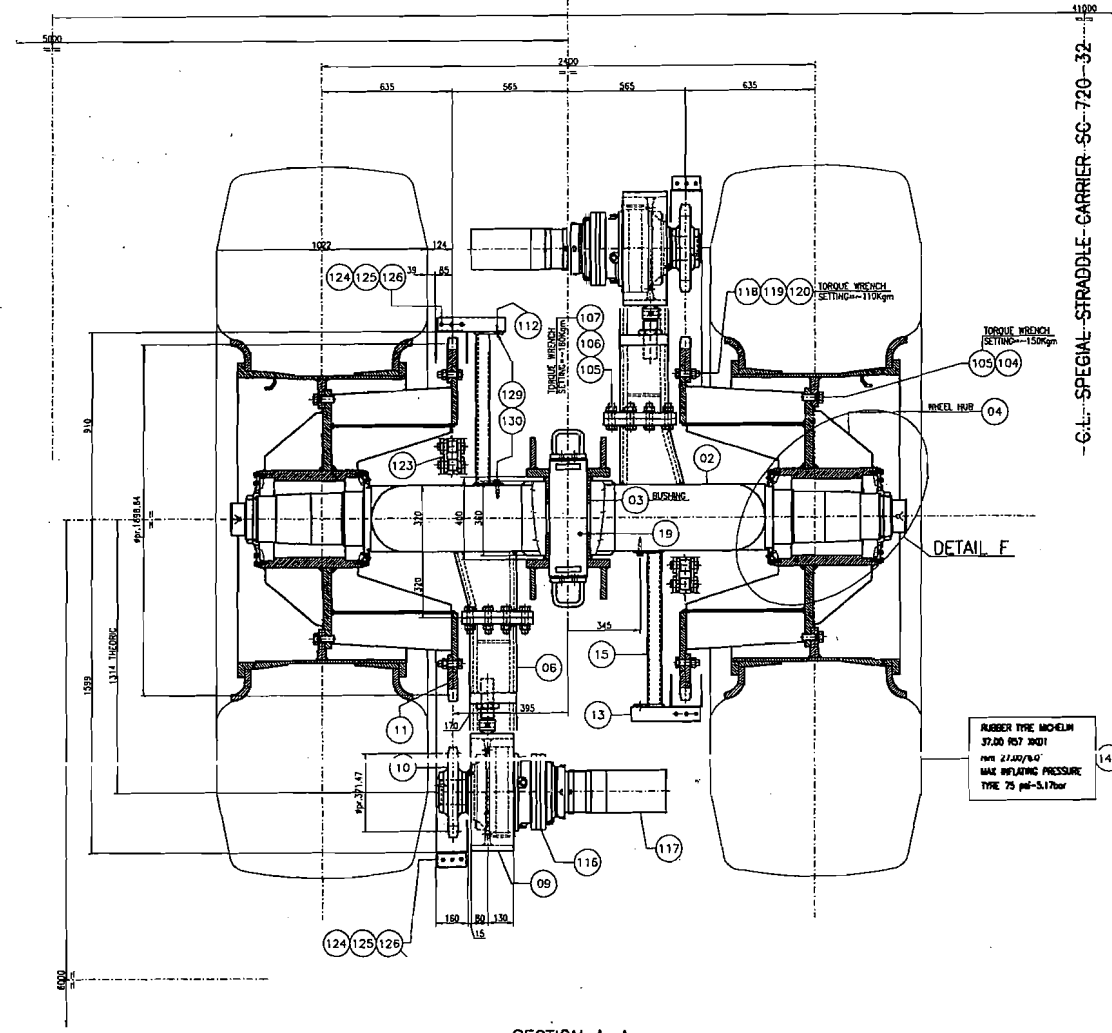
NOTES:
FOR TROLLEY GENERAL ASSEMBLY SEE DWG. T06TPAD001
FOR WALKWAYS AND PLATFORM ASSEMBLY SEE DWG. T06TPAD002
FOR IDLE WHEELS GROUP ASSEMBLY SEE DWG. T06TPAD004
FOR ROTATION SUPPORT ASSEMBLY SEE DWG. T06TPAD005
FOR STEERING PLATFORM WITH EQUALISING JACK GENERAL ARRANGEMENT SEE DWG. T06TPAD006A/B

148	48	WASHER #37*66 UNI 6592 R40							COMM
147	24	NUT M36 UNI 5588 6S							COMM
146	24	SCREW M36*140 UNI 5737 8.8							COMM
145	4	SUPPORT JACK FOR 90° ROTATION FRAMEN	F300	875	3500				COMM
143	24	WASHER #15*28 UNI 6592 R40							COMM
142	8	RUBBER TYRE MICHELIN 37.00 R57 300T Rnd 27.00/6.0" MAX INFLATING PRESSURE TYPE 75 psi=5.17bar	F101	4100	32800				COMM
141	8	A+P 10025010A							COMM
140	8	A+P 10030010A							COMM
139	128	SCREW M12*35 UNI 5739 8.8							COMM
138	24	GREASER B/M10*1 UNI 7862							COMM
137	32	WASHER 25*44 UNI 6592 R40							COMM
136	32	SCREW M24*60 UNI 5739 8.8							COMM
135	16	WASHER #21*37 UNI 6592 R40							COMM
134	16	SCREW M20*50 UNI 5931 8.8							COMM
133	96	SCREW M12*35 UNI 5933 10.9							COMM
131	4	SCREW M30*80 UNI 5931 12.9							COMM
130	56	WASHER #17*30 UNI 6592 R40							COMM
129	40	SCREW M16*40 UNI 5739 8.8							COMM
128	160	WASHER #13*24 UNI 6592 R40							COMM
127	32	SCREW M12*20 UNI 5739 8.8							COMM
126	48	NUT M10 UNI 5588 6S							COMM
125	96	WASHER #10.5*21 UNI 6592 R40							COMM
124	48	SCREW M10*30 UNI 5739 8.8							COMM
123	8	CHAIN REGINA INDUSTRIE ISO 56B1 Lg.6223, 70 LINKS Lg.68.9mm	F804	230	1840				COMM
122	8	BREVINI RDF 400							COMM
121	24	SCREW M14*45 UNI 5739 8.8							COMM
120	192	NUT M27 UNI 5588 6S							COMM
119	384	WASHER #28*50 UNI 6592 R40							COMM
118	192	SCREW M27*100 UNI 5737 8.8							COMM
117	8	HYDRAULIC ENGINE "REKROTH" ASVM107HD2/63W-0340-VZB-0278		50	400				COMM
116	8	BREVINI ET3400/MN1/100 FLC 2.3.450/611360023670		257	2056				COMM
115	240	NUT M14 UNI 5713 8G							COMM
114	480	WASHER #15*28 UNI 5714 C50							COMM
113	240	SCREW M14*170 UNI 5737 10.9							COMM
112	32	NUT M16 UNI 5588 6S							COMM
111	16	SCREW M16*50 UNI 5739 8.8							COMM
110	16	WASHER #8*105 UNI 1749 3.6							COMM
109	16	COTTER PIN B13*100 UNI 1336 3.6							COMM
108	8	NUT M8 UNI 5589 6S							COMM
107	88	SCREW M30*110 UNI 5737 8.8							COMM
106	88	WASHER #31*56 UNI 6592 R40							COMM
105	464	SCREW M30*60 UNI 5737 8.8							COMM
104	288	RING NUT SKF KMT 40							COMM
103	8	SKF-30244 220/400/72		40	320				COMM
102	8	SKF-32052X 260/400/87		40	320				COMM
101	8	SKF-32052X 260/400/87		40	320				COMM
POS	QTY	DESCRIPTION	MATER.	COO.	W.U.	W.T.	NOTE		

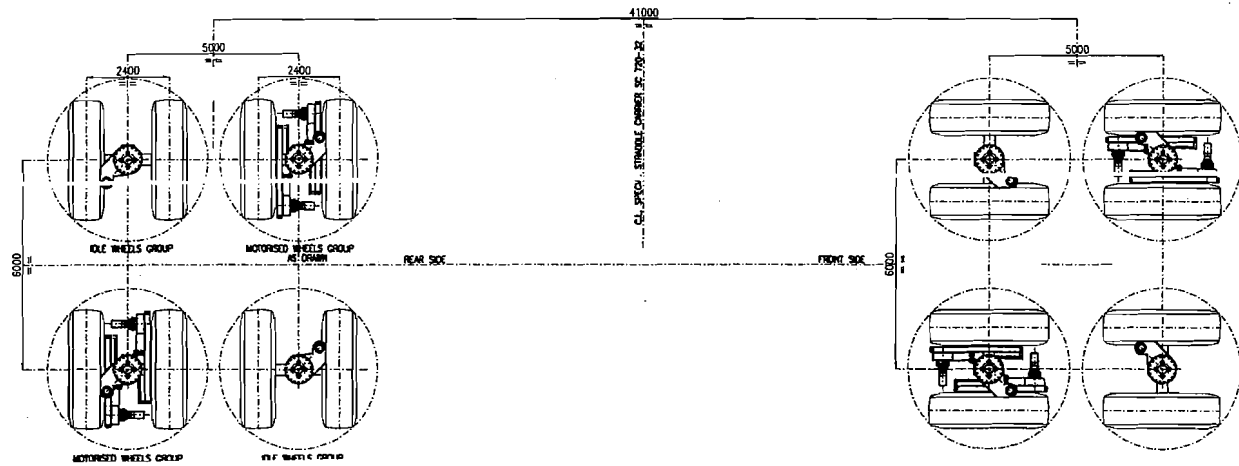
ATTENTION:
THIS MATERIALS LIST IS FOR THE CONSTRUCTION
OF Nr. 4 MOTORISED WHEELS GROUP

UNIT WEIGHT 18610 Kg
TOTAL WEIGHT 74440 Kg

24	8	SPACER	F1203	3.3	28.4				
23	8	COVER	F1202	12.96	103.7				
22	8	COVER	F1201	12	96				
21	16	PLATE	F1103	1.9	30				
20	8	HANDLE	F1102	2.3	18				
19	4	PIN	F1101	113.6	454.5				
18	8	COVER	F1003	3.15	25.23				
17	16	PIN	F1002	4.7	75.2				
16	4	STEERING ARM	F1001	421.12	1684.5				
15	8	SUPPORT	F904	18.4	147				
14	8	SUPPORT	F903	3.7	29.6				
13	8	CHAIN'S CARTER	F902	28.3	226				
12	8	CHAIN'S CARTER	F901	24.1	193				
11	8	CROWN GEAR	F803	300	2400				
10	8	SPROCKET	F802	52	416				
09	8	SUPPORT OF REDUCTION GEAR	F801	128.2	1025				
08	8	PIN	F703	11.2	90				
07	8	PIN	F702	7.6	61				
06	8	MOTORIZATION ARM	F701	213.8	1710				
05	4	AXLE'S TURNABLE STANDARD	F601	1274.8	5088.5				
04	8	MOTORISED WHEEL HUB	F401	1135.4	9083				
03	8	BUSHING	F202	9.6	76.8				
02	4	MOTORISED AXLE	F201	2534	10136				
POS	QTY	DESCRIPTION	MATER.	COO.	W.U.	W.T.	NOTE		



WHEEL'S GROUP ORIENTATION GENERAL ARRANGEMENT
SCALE 1:7.5



DEAL

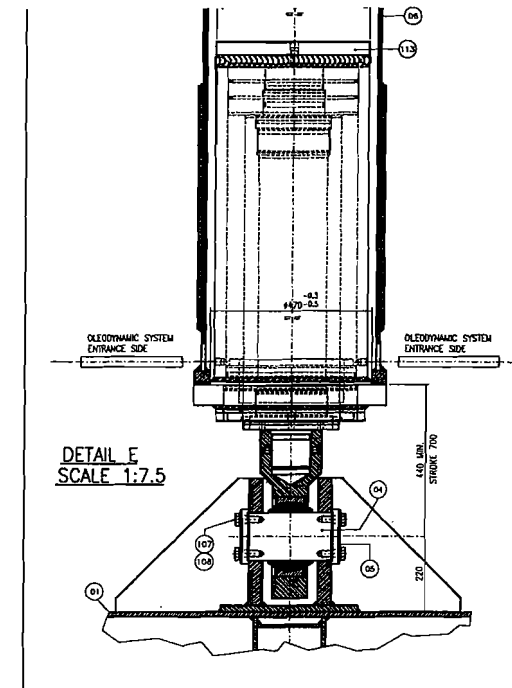
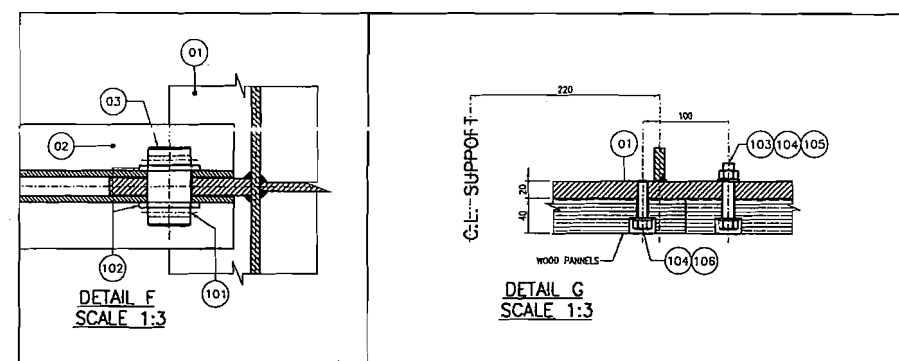
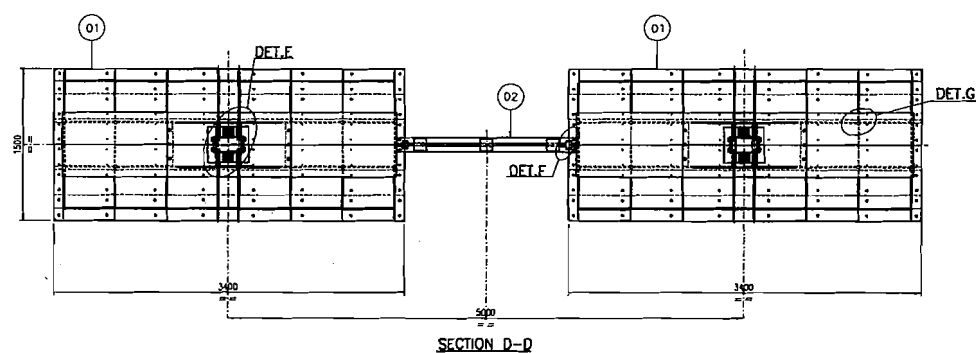
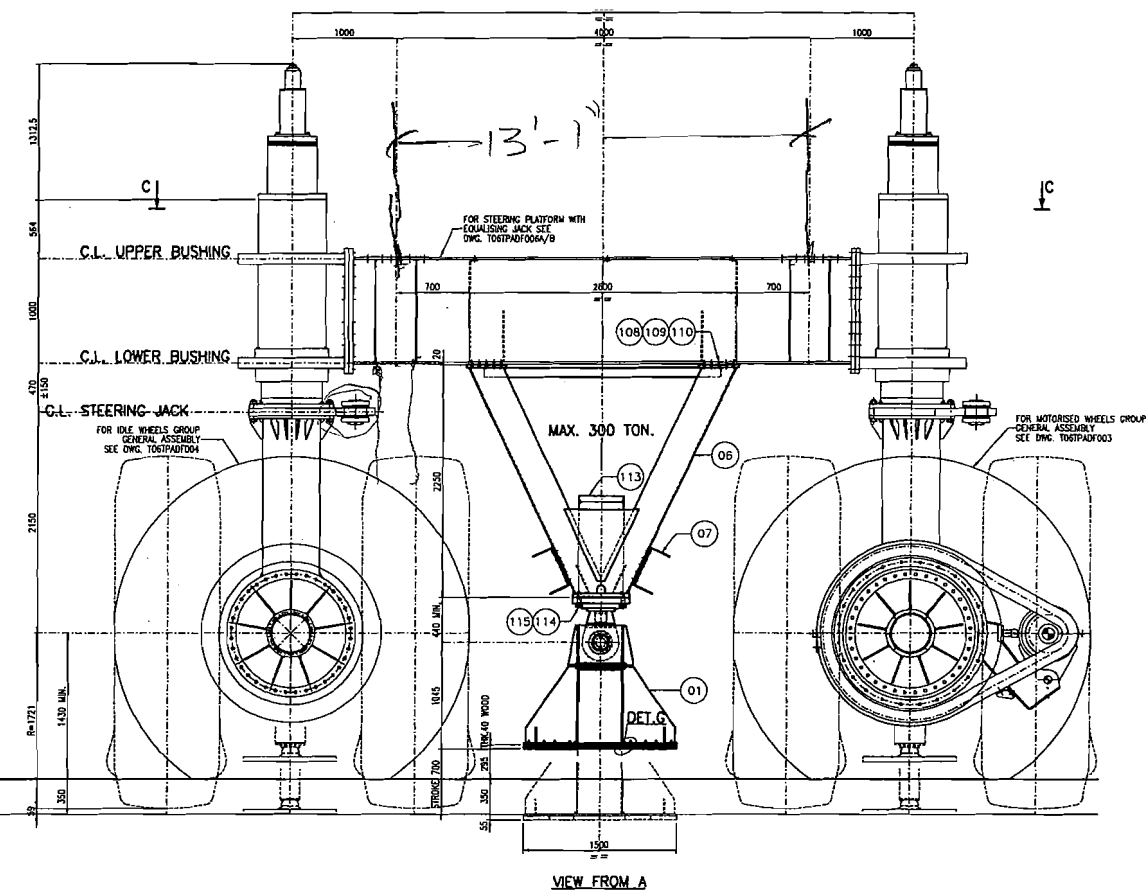
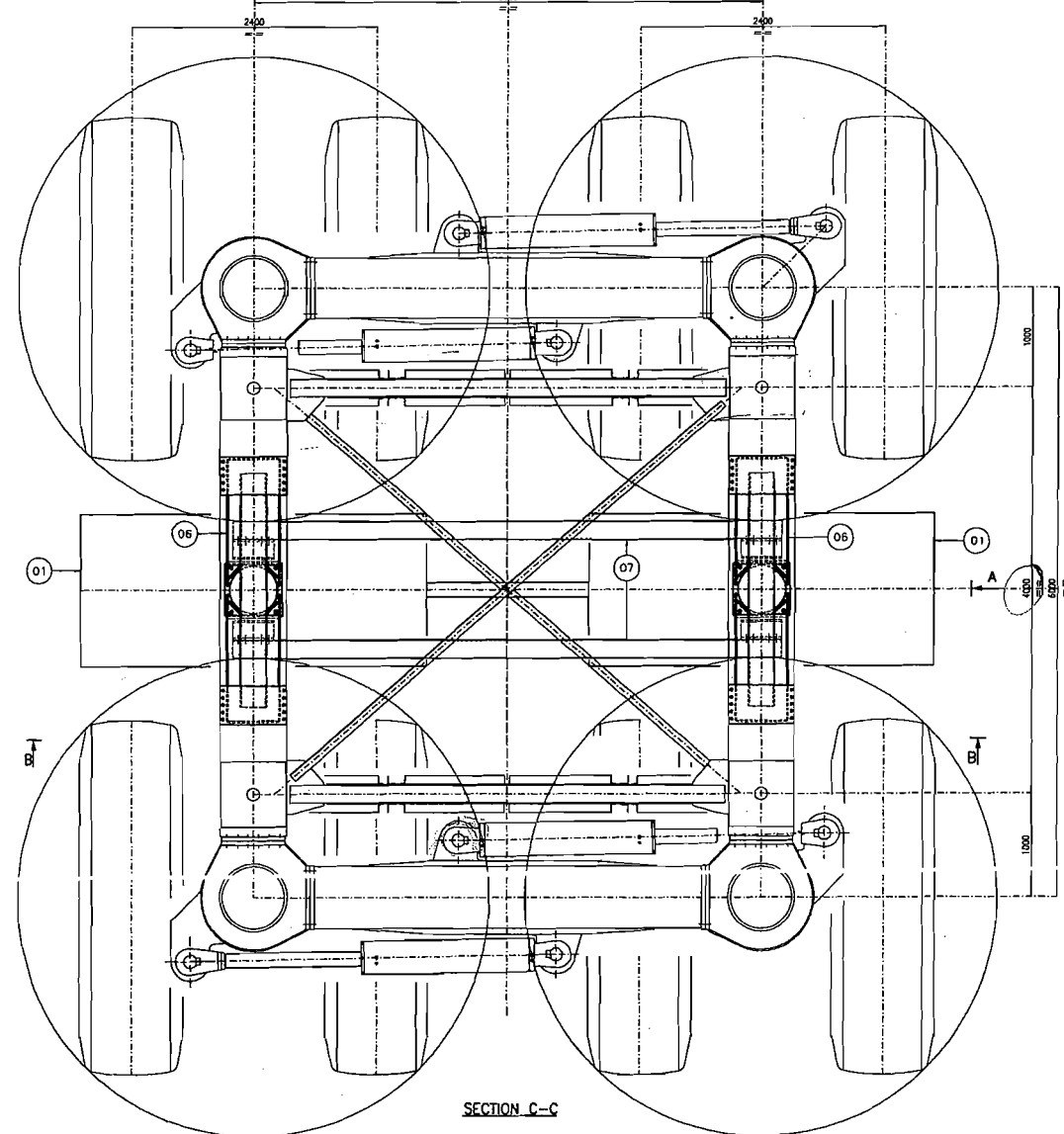
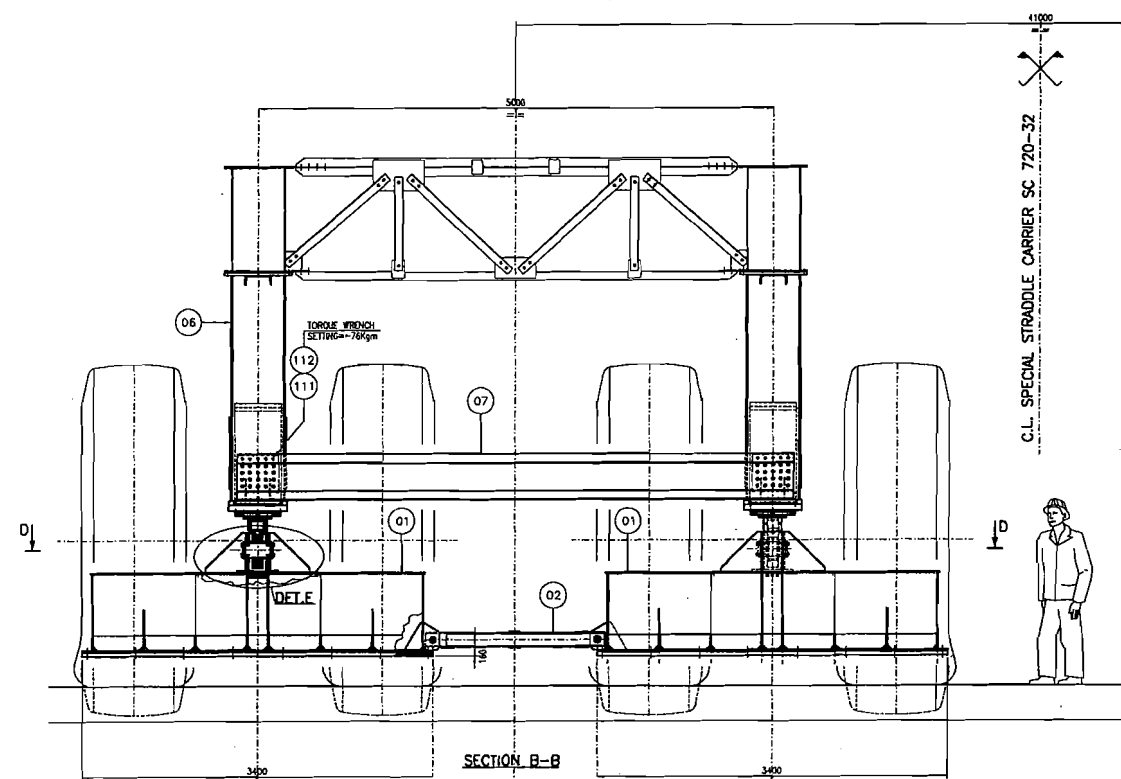
STRADDLE CARRIER
SC 720 - 32

TROLLEYS AND SUPPORT

MOTORISED WHEELS GROUP-GENERAL ARRANGEMENT

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

KIEWIT / FCI / MANSON JV



NOTES:
FOR TROLLEY GENERAL ASSEMBLY SEE DWG. T06TPAD001
FOR MOTORISED WHEELS GROUP ASSEMBLY SEE DWG. T06TPAD003
FOR IDLE WHEELS GROUP ASSEMBLY SEE DWG. T06TPAD004
FOR STEERING PLATFORM WITH EQUALISING JACK GENERAL ARRANGEMENT SEE DWG. T06TPAD006A/B

POS.	QTY.	DESCRIPTION	MATER.	CODE	W.U.	W.T.	NOTE
115	16	WASHER #37*66 UNI 6592 R40					COMM
114	16	SCREW M36*110 UNI 5739 R40					COMM
113	4	HYDRAULIC JACK #4300/P2280 STROKE 700			1200	4900	TRANSFERRON
112	200	WASHER #25*44 UNI 6592 R40					COMM
111	200	SCREW M24*50 UNI 5739 R40					COMM
110	80	NUT M20 UNI 5588 6S					COMM
109	80	SCREW M20*90 UNI 5737 R40					COMM
108	192	WASHER #21*37 UNI 6592 R40					COMM
107	32	SCREW M20*60 UNI 5737 R40					COMM
106	96	SCREW M12*45 UNI 5931 R40					COMM
105	288	NUT M12 UNI 5588 6S					COMM
104	672	WASHER #13*24 UNI 6592 R40					COMM
103	288	SCREW M12*65 UNI 5931 R40					COMM
102	8	WASHER #52*70 UNI 1749 R40					COMM
101	8	SP. PIN B10*70 UNI 1336 3.6					COMM

UNIT WEIGHT 9960 Kg
TOTAL WEIGHT 19920 Kg

REV.	DATE	REV. REASON	TECHPROJET S.P.	TECHPROJET CUCCARD	LONGOBARDI
07	4	CONNECTION BEAM	F2202	198.4	794
06	4	JACK SUPPORT	F2201	937.7	3751
05	8	COVER	F1902	3	24
04	4	PIN	F1901	28.4	118
03	4	PIN	F1703	1.4	6
02	2	CONNECTION FOR HOISTING TRAVERSE	F1702	62.8	126
01	4	HOISTING TROLLEY'S TRAVERSE	F1701	2575	10300

DEAL

STRADDLE CARRIER
SC 720 - 32

TROLLEY AND SUPPORT

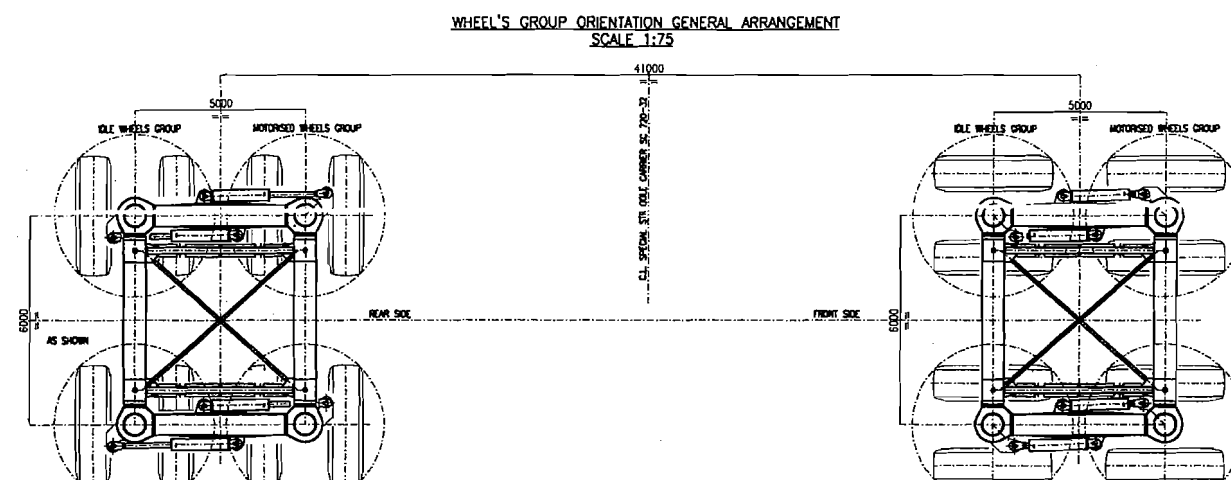
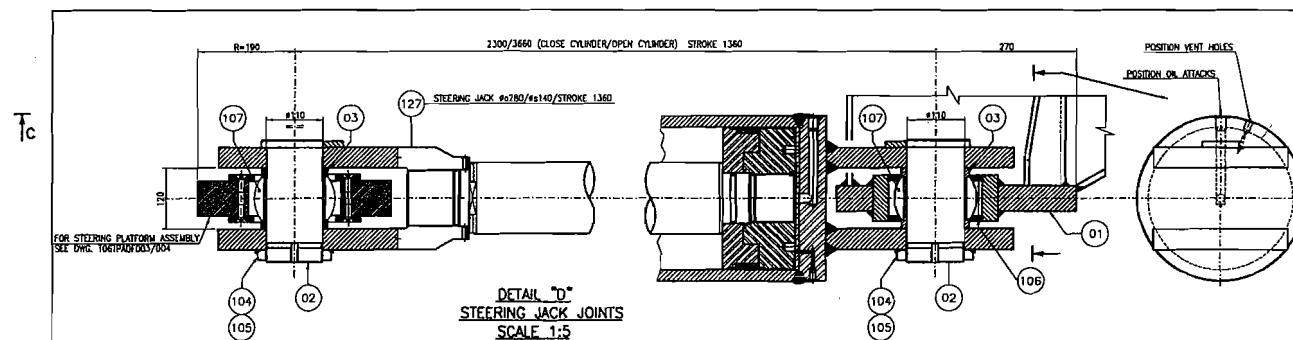
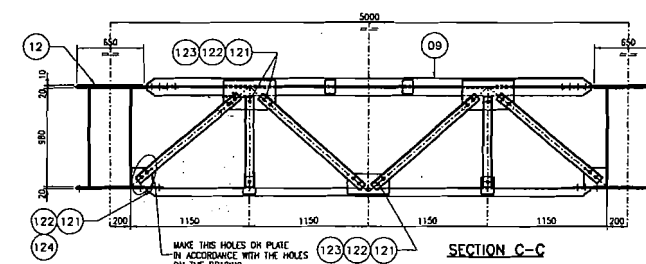
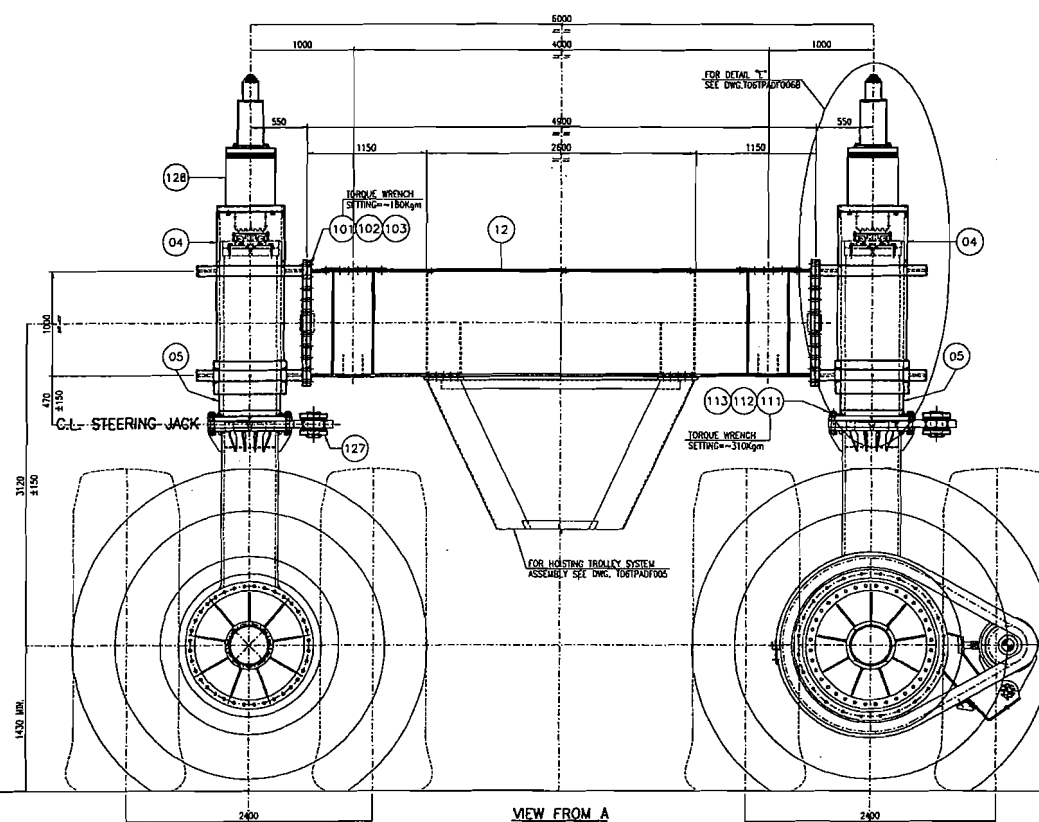
SUPPORT JACK-GENERAL ARRANGEMENT

Scale: 1:25 1:7.5 1:3

1 1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
AUTHORIZATION

KIEWIT / FCI / MANSON JV



-NOTES-

FOR DETAIL "E" SEE DWG. T06TPADF006B
FOR TROLLEY GENERAL ASSEMBLY SEE DWG. T06TPADF001
FOR WALKWAYS AND PLATFORM ASSEMBLY SEE DWG. T06TPADF002
FOR MOTORISED WHEELS GROUP ASSEMBLY SEE DWG. T06TPADF003
FOR IDLE WHEELS GROUP ASSEMBLY SEE DWG. T06TPADF004
FOR ROTATION SUPPORT ASSEMBLY SEE DWG. T06TPADF005

[illegible]

UNIT WEIGHT	31000 Kg
TOTAL WEIGHT	62000 Kg

12	4	TRANSVERSAL CROSS MEMBER	F2101	2980.8	11923
11	2	PLATE	F2003	0.7	1.4
10	4	BRACING	F2002	41	164
09	4	CONNECTION BEAM FOR TRANSV. CROSS MEMBER	F2001	413	1652
08	8	PLATE	F1803	2.74	51.92
07	8	COMPENSATION JACK'S THRUST BEARING	F1802	121	36.8
06	8	COMPENSATION JACK'S THRUST BEARING	F1801	66.5	532
05	8	UPPER STANDARD	F1601	1296.9	10376
04	8	BODY SUPPORT STRUCTURE FOR UPPER STANDARD	F1501	1582.5	12660
03	12	SPACER	F1402	1.7	34
02	36	PIN	F1401	18.8	281
		CONNECTION CROSS MEMBER WITH JACK'S COUNTER	F1201	768.9	1079

POS	DATE	DESCRIPTION	WATER	COG.	W.U.	W.T.	NOTE
2							
1							
0	26-07-02	FIRST ISSUE	TECHPROJET S.F.	TECHPROJET CUCCHARD			LONGOBARDI

DEAL

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

ATTORNEY:	STRADDLE CARRIER
-----------	------------------

CLASS	TROLLEYS AND SUPPORT
-------	----------------------

GENERAL ARRANGEMENT		
Sub-Group, Inc.	Each	Share

1:75	1:25	1:5
Class	Comment	

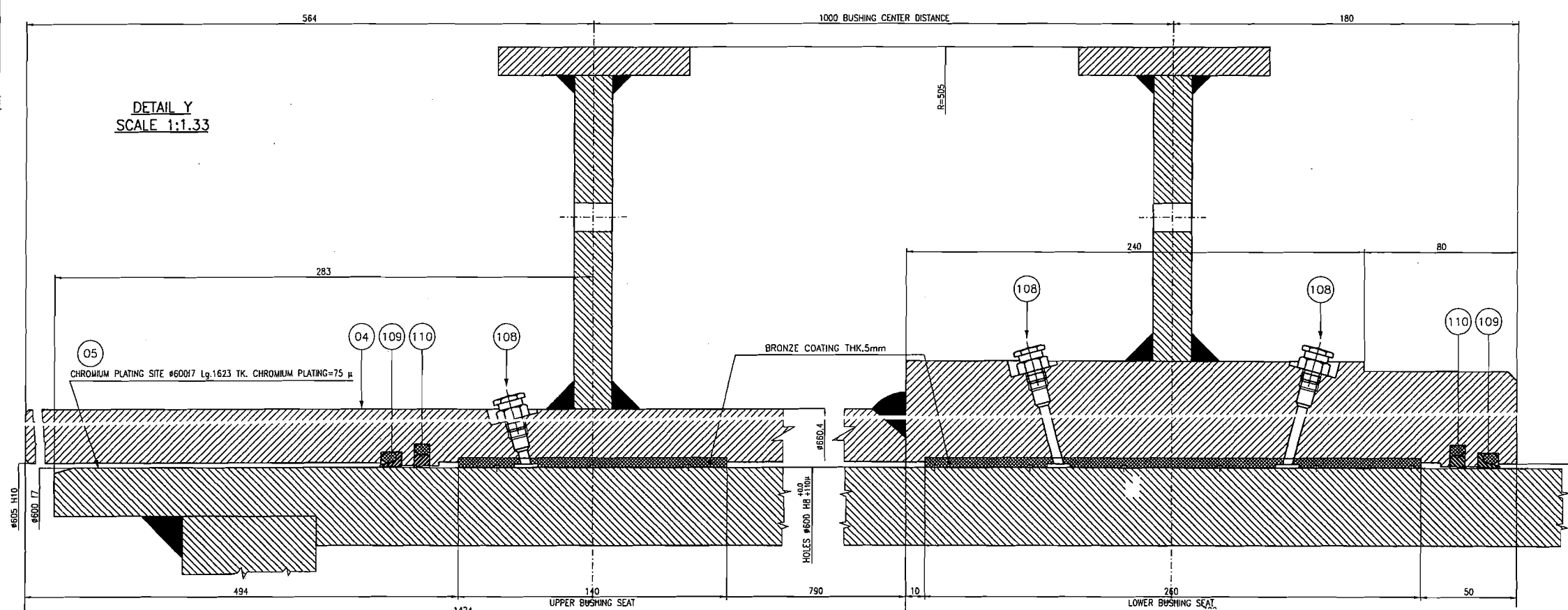
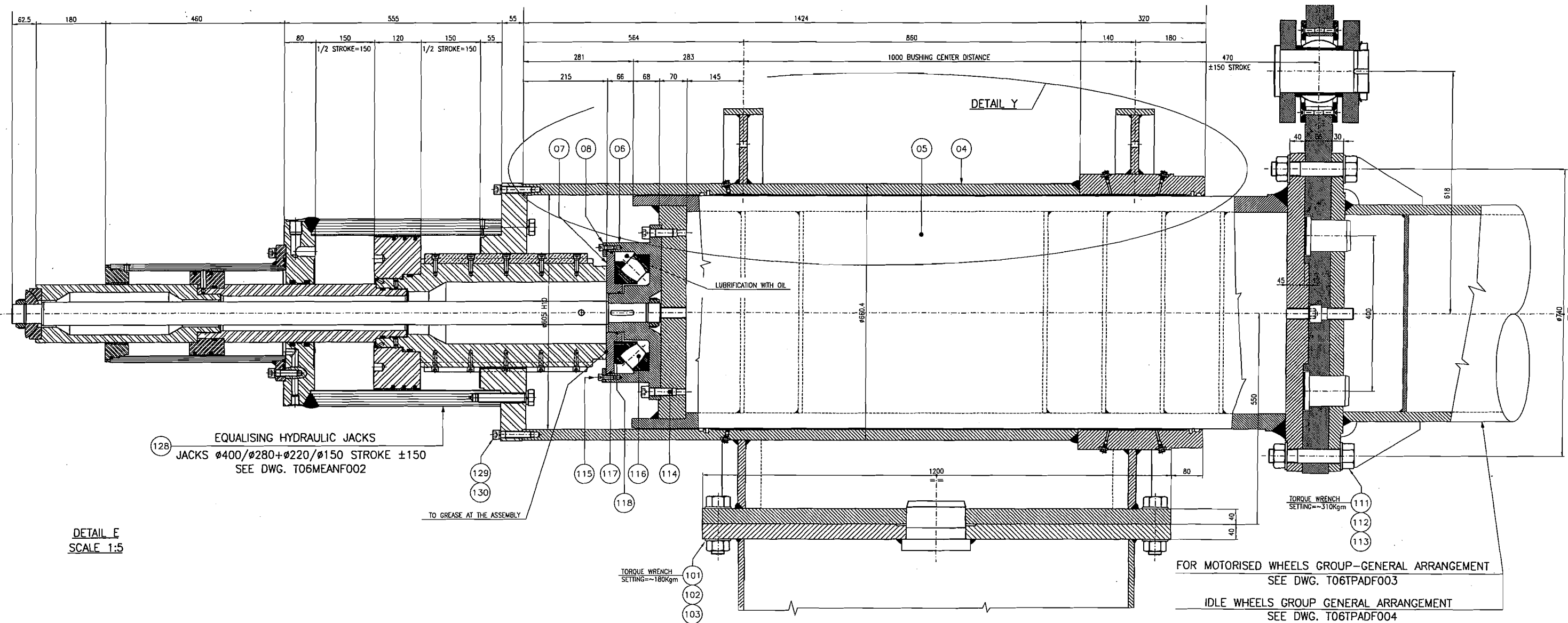
FILE	DATE	
T06TPADF006A.DWG	AO	
Job No.	Est. No.	Qty.

-	6	0	0	3	1	1	-	0	6	0	3	0	6	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Feb. No.			Days		Doc. Type		Port	
1	2	3	4	5	6	7	8	9

1	0	6	1	P	A	D	F	-	0
---	---	---	---	---	---	---	---	---	---

KIEWIT / FCI / MANSON JV



-NOTES-

FOR ASSEMBLY STEERING PLATFORM AND LIST OF MATERIAL
SEE DWG. T06TPADF006A

2					
1					
0	26-07-02	FIRST ISSUE	TECNOPROGET S.F.	TECNOPROGET CUCCHARD	LONGOBARDI
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL

Sede e Direzione
 Via Battino-Frazione Carpiaceto
 33050-Pordenone del Friuli (UD)-Italy
 Tel: +39 432 607 900
 Fax: +39 432 607 902
 e-mail: info@pcc.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT A
WRITTEN AUTHORIZATION

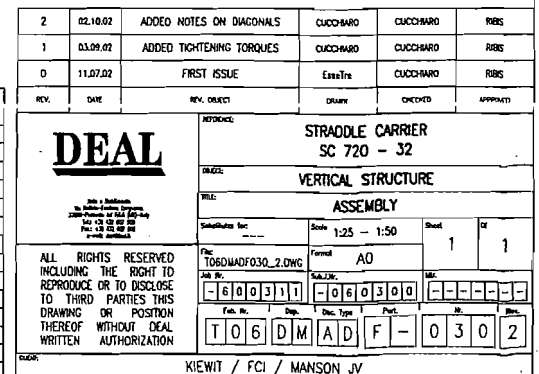
REFERENCE:	STRADDLE CARRIER SC 720 - 32									
OBJECT:	TROLLEYS AND SUPPORT									
TITLE:	CONNECTION EQUALISING JACK - DETAILS									
Substitutes for:	Scale		1:5		1:1.33		Sheet		Of	
---		Format		A1		2		2		
File:	T06TPADFO06B.DWG									
Job Nr.	Subj.Nr.		Mtr.							
- 6 0 0 3 1 1	- 0 0 6 0 3 0 6		-		-		-		-	
Fab. Nr.	Dep.		Doc. Type		Port.		Nr.		Rev.	
T 0 6	T P		A D		F -		0 0 6		0	

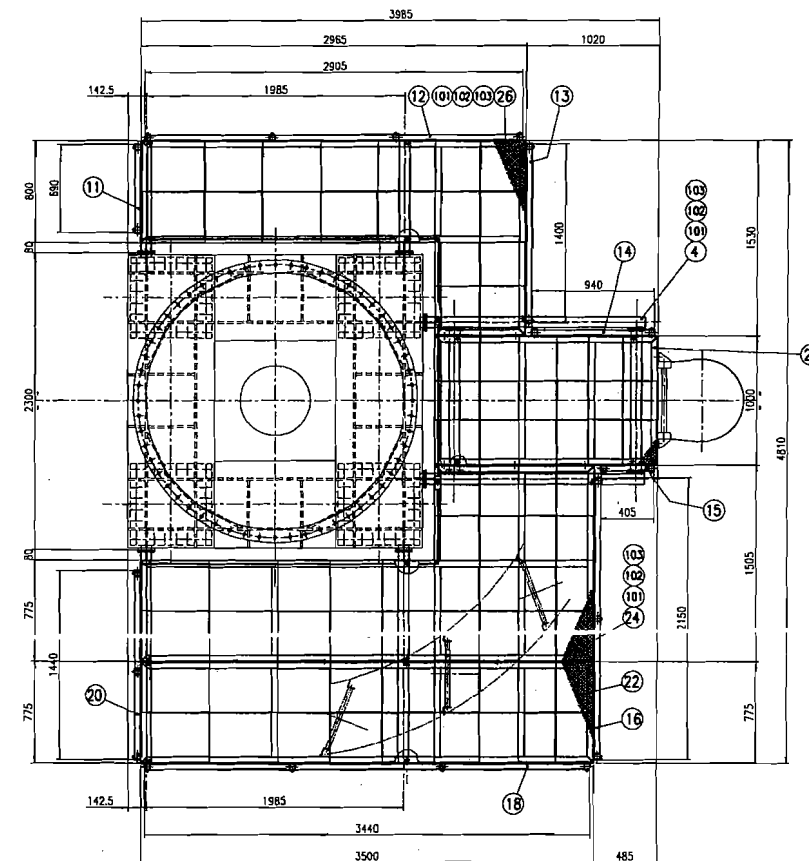
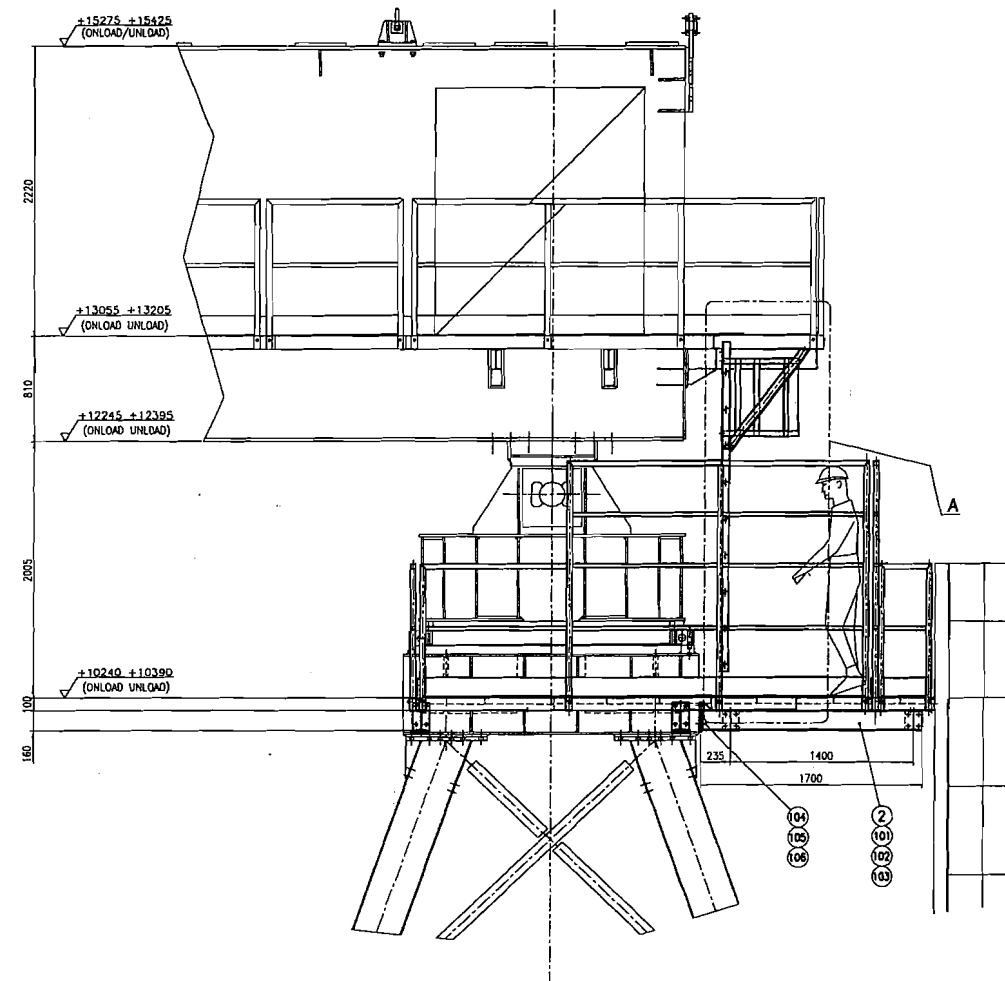
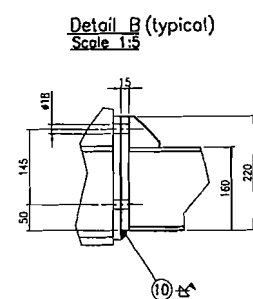
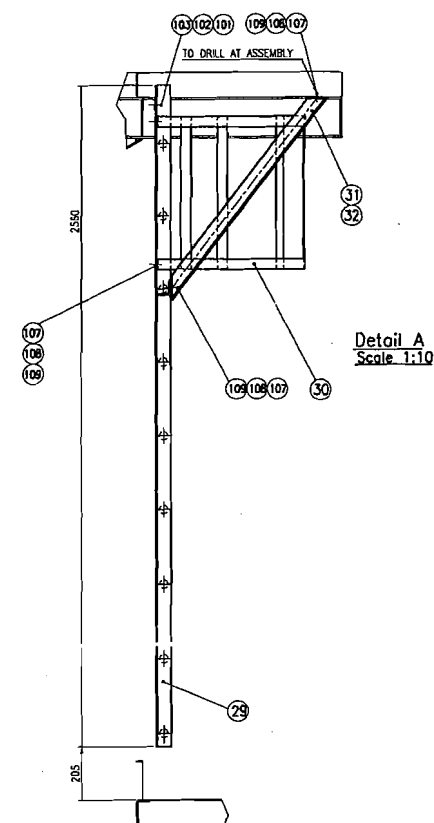
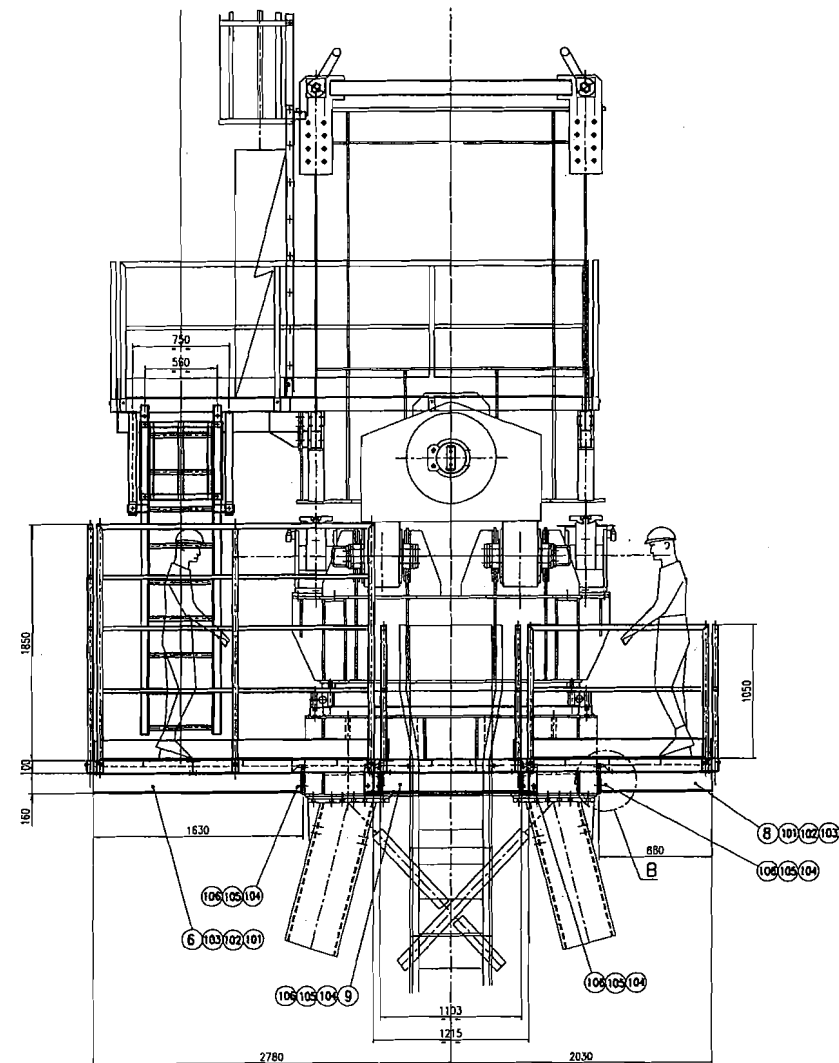
CLIENT:

KIEWIT / FCI / MANSON JV

PROJECT	
---------	--

SKYWAY BRIDGE PROJECT





TOTAL WEIGHT = 2100 Kg

FRONT SIDE

109	16	WASHER 10.5 UNI 6592			*		
109	16	NUT M10 UNI 5568			65		
107	16	SCREW M16x30 UNI 5739			8.8		
106	80	WASHER 17 UNI 6592			*		
105	80	NUT M16 UNI 5568			65		
104	80	SCREW M16x50 UNI 5739			8.8		
103	65	WASHER 13 UNI 6592			*		
102	110	NUT M12 UNI 5568			65		
101	110	SCREW M12x30 UNI 5739			8.8		
32	2	BEAM 60x60x952	F3804		6	12	
31	2	BEAM 60x60x952	F3803		6	12	
30	2	CAGE 600x280x648	F3802		8.9	17.8	
29	2	LADDER 620x2580	F3801		37.5	75	
28	1	WALKWAY 1720x1000	F3708		84.5	84.5	
27	1	WALKWAY 1720x1000	F3707		84.5	84.5	
26	1	WALKWAY 2950x1530	F3706		130	130	
25	1	WALKWAY 2950x1530	F3705		130	130	
24	1	WALKWAY 3500x1505	F3704		163	163	
23	1	WALKWAY 3500x1505	F3703		163	163	
22	1	WALKWAY 3500x775	F3702		118.5	118.5	
21	1	WALKWAY 3500x775	F3701		118.5	118.5	
20	1	GUARD RAIL 1150x1440	F3610		29	29	
19	1	GUARD RAIL 1150x1440	F3609		29	29	
18	1	GUARD RAIL 1150x3440	F3608		74.5	74.5	
17	1	GUARD RAIL 1150x3440	F3607		74.5	74.5	
16	2	GUARD RAIL 1150x2150	F3606		56.6	113.2	
15	2	GUARD RAIL 1150x405	F3605		13.6	27.2	
14	2	GUARD RAIL 1150x410	F3604		18.5	37	
13	2	GUARD RAIL 1150x1400	F3603		23.2	46.4	
12	2	GUARD RAIL 1150x2905	F3602		47.5	95	
11	2	GUARD RAIL 1150x690	F3601		18.1	32.2	
10	12	SMALL BLOCK 10x10x130	F3510		0.1	1.2	
9	4	BEAM 160x1103	F3509		21.8	87.2	
8	2	BEAM 160x880	F3508		17.1	34.4	
7	2	BEAM 160x880	F3507		17.2	34.4	
6	2	BEAM 160x1530	F3506		29	58	
5	2	BEAM 160x1530	F3505		29	58	
4	1	BEAM 160x1700	F3504		35	35	
3	1	BEAM 160x1700	F3503		35	35	
2	1	BEAM 160x1700	F3502		35	35	
1	1	BEAM 160x1700	F3501		35	35	
POS.	QTY	DESCRIPTION	COD.	MATERIAL	WEIGHT	NET	NOTES

DEAL

STRADDLE CARRIER
SC 720 - 32

VERTICAL STRUCTURE

WALKWAYS ON LOWER BEARING SUPPORT

Substances for:	Scale	Sheet	Of
	1:20		

Doc	Formel	1	2
TOSEDMADEO3IA DMC	A0		

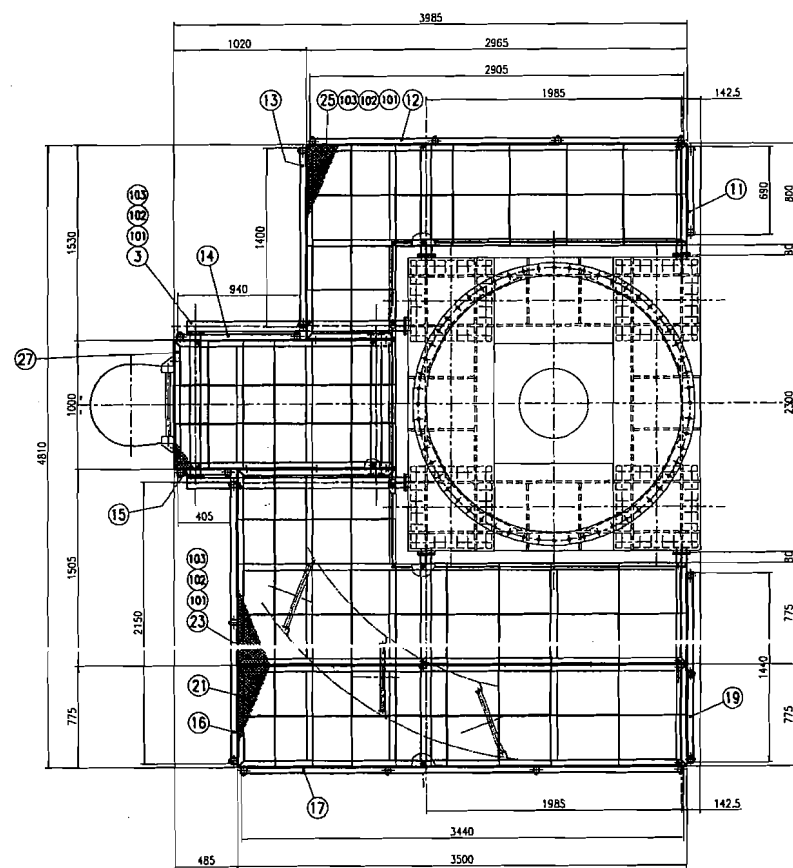
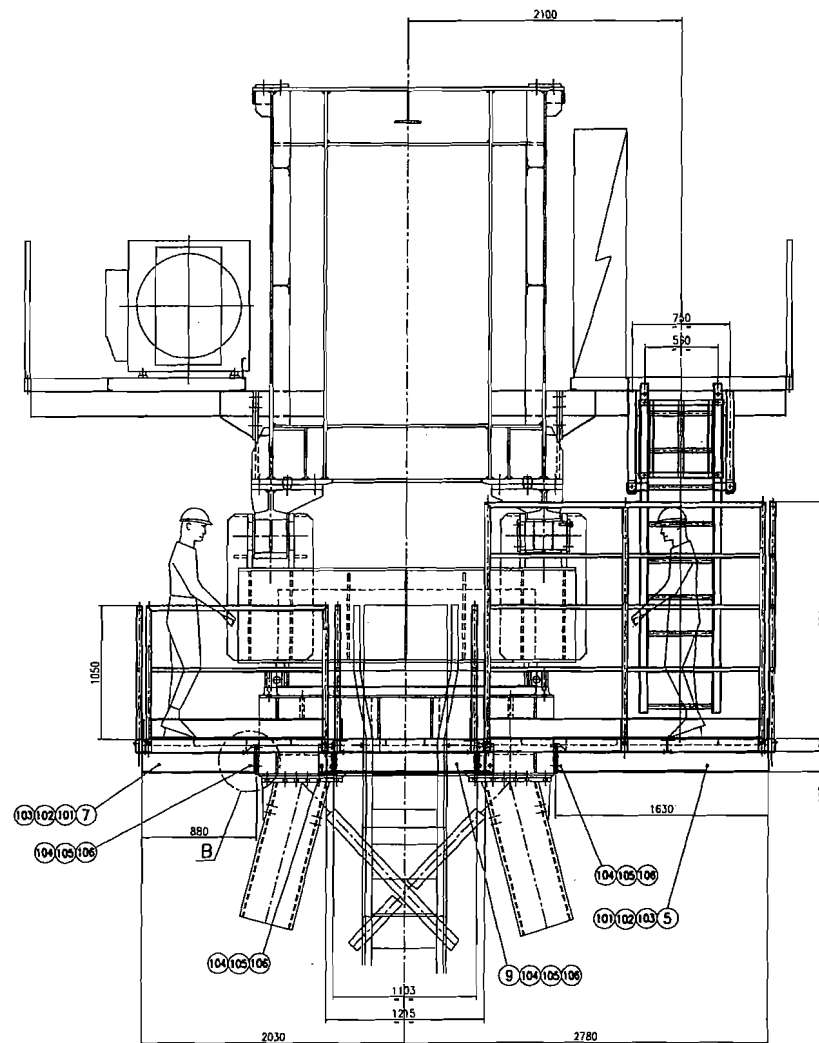
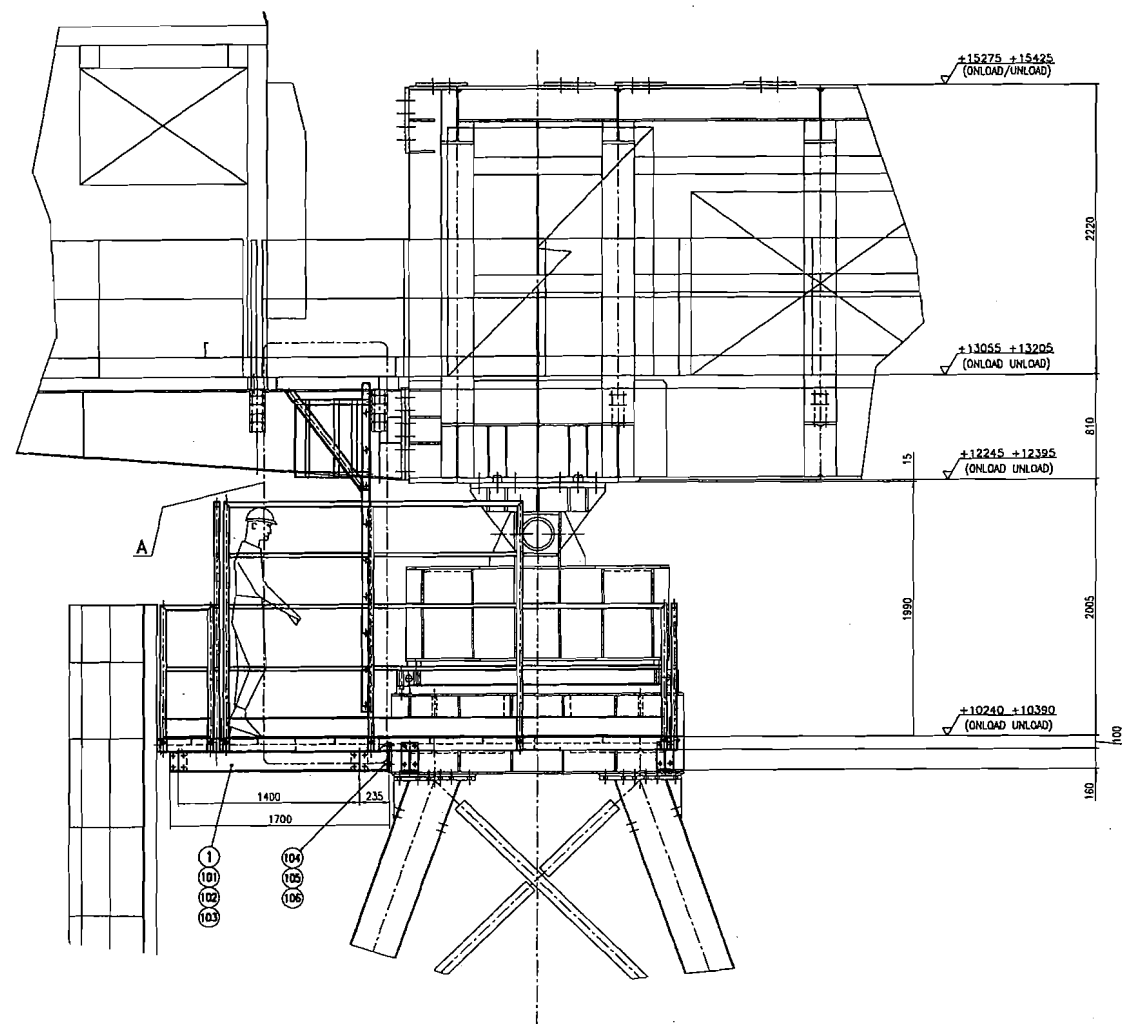
Job No.	Sub. No.	Wk.
1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6

-	6	0	0	3	1	1	-	0	6	0	3	0	6	-	-	-	-	-	-	-
Feb. M.						Day	Dec. Year						Port		No.		Rev.			

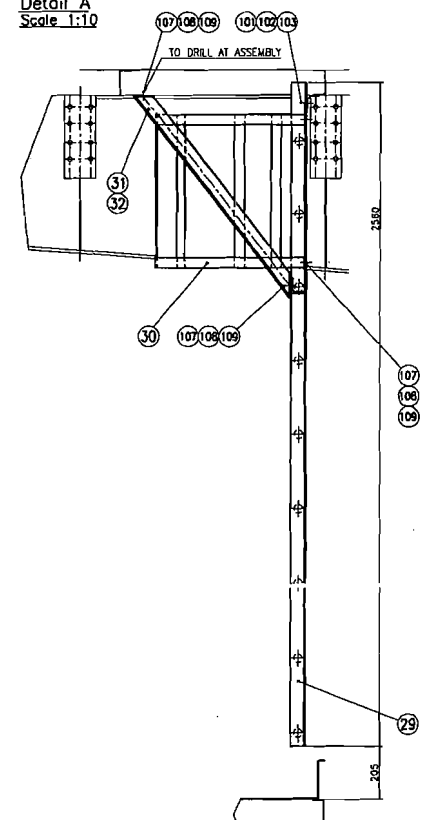
T	O	6	D	M	A	D	F	-	0	3	1	0
---	---	---	---	---	---	---	---	---	---	---	---	---

DATE / 09 / JANUARY 20

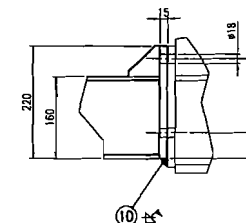
IEWIT / FBI / MANSON JV



Detail A
Scale 1:10



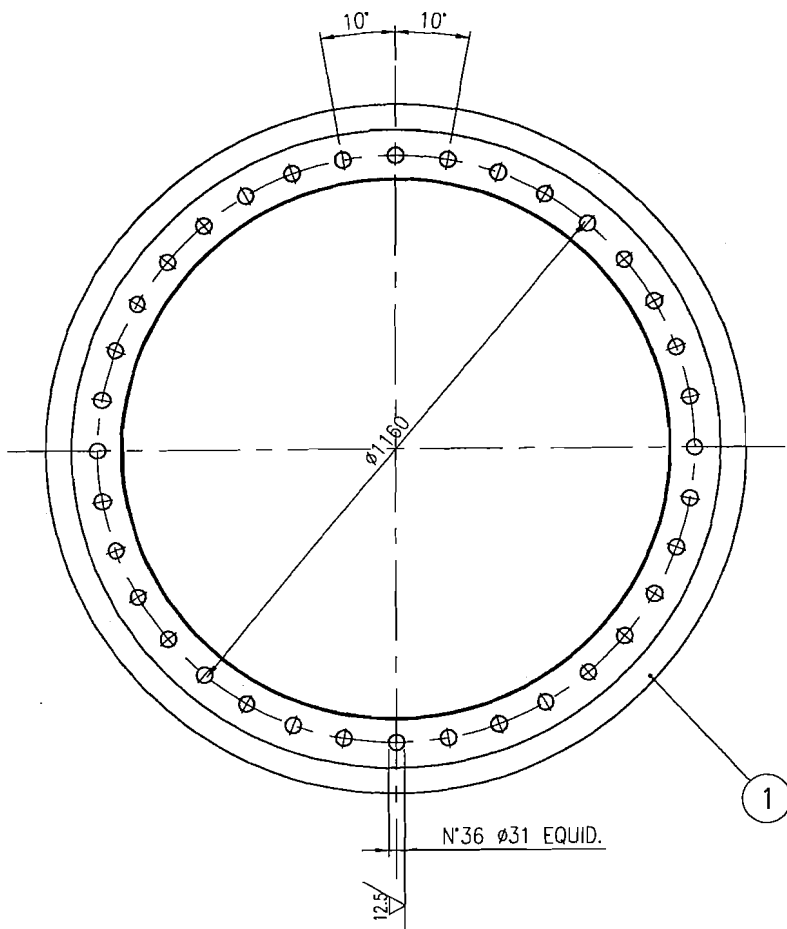
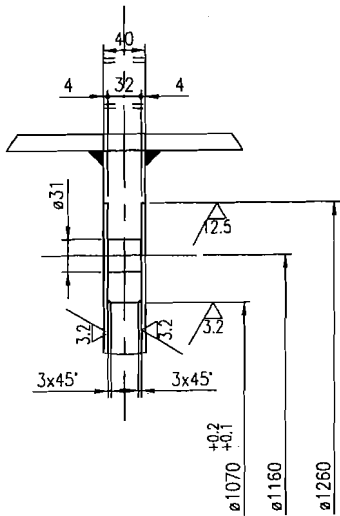
Detail B (typical)
Scale 1:5



REAR SIDE

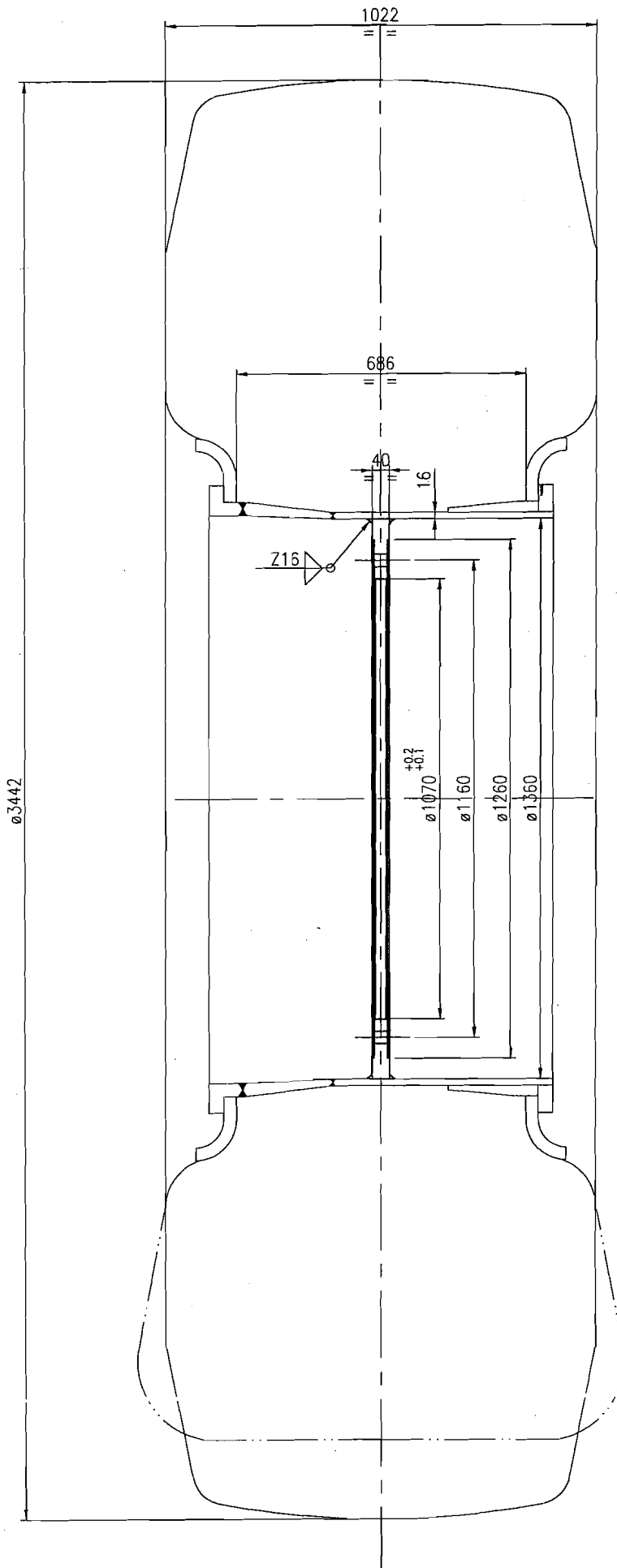
2					
1					
0	05-05-02	FIRST ISSUE	Exec'd	GERMANO	RBS
REV.	DATE	REV. PROJECT	REV. PROJECT	REV. PROJECT	REV. PROJECT
DEAL					
STRADDLE CARRIER SC 720 - 32					
VERTICAL STRUCTURE					
WALKWAYS ON LOWER BEARING SUPPORT					
Scale: 1:20					
Sheet: 2 of 2					
Job No. T06DMAD031B.DWG					
Rev. AO					
Rev. 1: 600311					
Rev. 2: 600306					
Rev. 3: 600306					
Rev. 4: 600306					
Rev. 5: 600306					
Rev. 6: 600306					
Rev. 7: 600306					
Rev. 8: 600306					
Rev. 9: 600306					
Rev. 10: 600306					
Rev. 11: 600306					
Rev. 12: 600306					
Rev. 13: 600306					
Rev. 14: 600306					
Rev. 15: 600306					
Rev. 16: 600306					
Rev. 17: 600306					
Rev. 18: 600306					
Rev. 19: 600306					
Rev. 20: 600306					
Rev. 21: 600306					
Rev. 22: 600306					
Rev. 23: 600306					
Rev. 24: 600306					
Rev. 25: 600306					
Rev. 26: 600306					
Rev. 27: 600306					
Rev. 28: 600306					
Rev. 29: 600306					
Rev. 30: 600306					
Rev. 31: 600306					
Rev. 32: 600306					
Rev. 33: 600306					
Rev. 34: 600306					
Rev. 35: 600306					
Rev. 36: 600306					
Rev. 37: 600306					
Rev. 38: 600306					
Rev. 39: 600306					
Rev. 40: 600306					
Rev. 41: 600306					
Rev. 42: 600306					
Rev. 43: 600306					
Rev. 44: 600306					
Rev. 45: 600306					
Rev. 46: 600306					
Rev. 47: 600306					
Rev. 48: 600306					
Rev. 49: 600306					
Rev. 50: 600306					
Rev. 51: 600306					
Rev. 52: 600306					
Rev. 53: 600306					
Rev. 54: 600306					
Rev. 55: 600306					
Rev. 56: 600306					
Rev. 57: 600306					
Rev. 58: 600306					
Rev. 59: 600306					
Rev. 60: 600306					
Rev. 61: 600306					
Rev. 62: 600306					
Rev. 63: 600306					
Rev. 64: 600306					
Rev. 65: 600306					
Rev. 66: 600306					
Rev. 67: 600306					
Rev. 68: 600306					
Rev. 69: 600306					
Rev. 70: 600306					
Rev. 71: 600306					
Rev. 72: 600306					
Rev. 73: 600306					
Rev. 74: 600306					
Rev. 75: 600306					
Rev. 76: 600306					
Rev. 77: 600306					
Rev. 78: 600306					
Rev. 79: 600306					
Rev. 80: 600306					
Rev. 81: 600306					
Rev. 82: 600306					
Rev. 83: 600306					
Rev. 84: 600306					
Rev. 85: 600306					
Rev. 86: 600306					
Rev. 87: 600306					
Rev. 88: 600306					
Rev. 89: 600306					
Rev. 90: 600306					
Rev. 91: 600306					
Rev. 92: 600306					
Rev. 93: 600306					
Rev. 94: 600306					
Rev. 95: 600306					
Rev. 96: 600306					
Rev. 97: 600306					
Rev. 98: 600306					
Rev. 99: 600306					
Rev. 100: 600306					
KIEWIT / FCI / MANSON JV					

DETAIL "X"
SCALE 1:5



RUBBER TYRE MICHELIN
37.00 R57 XKD1
Rim 27.00/6.0"
MAX INFLATING PRESSURE
TYRE 75 psi-5.17bar

MARK	F101
NR PIECES	16
UNIT WEIGHT	4100Kg
TOTAL WEIGHT	65600Kg



9,038 lbs ea

FINAL PAINTING :
ENAMEL BLUE RAL 5017

TOTAL WEIGHT = 65600Kg

✓ [32/125]

WELDING PROCEDURES :

The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

REMOVE SHARP CORNERS
WITH R=2

DWG size A2

WELDS (UNI 1310)

Where not otherwise indicated a=0.7 of minimum thk. to be connected
(Continuous welds)

Edge preparation for welding in according to UNI 11001

TOLERANCES

Dimension without tolerance indication
Structural steel work UNI ISO 2768-M
Mechanics UNI ISO 2768-F

FINISHING

Machining UNI 4600
0.8/ 3.2/ 12.5/ 25/

TOLERANCES

Fit ISO (UNI 7218)

1	16	PLATE Ø1360 Th.=40 SHAPED	*	Fe 510 C	/	/	
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT.	TOT.	NOTES
2							
1	31/07/02	REVISED ADD WEIGHT	S.G.	G. BONASSI	G. BONASSI		
0	02/05/02	FIRST ISSUE	S.G.	G. BONASSI	G. BONASSI		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED		

DEAL

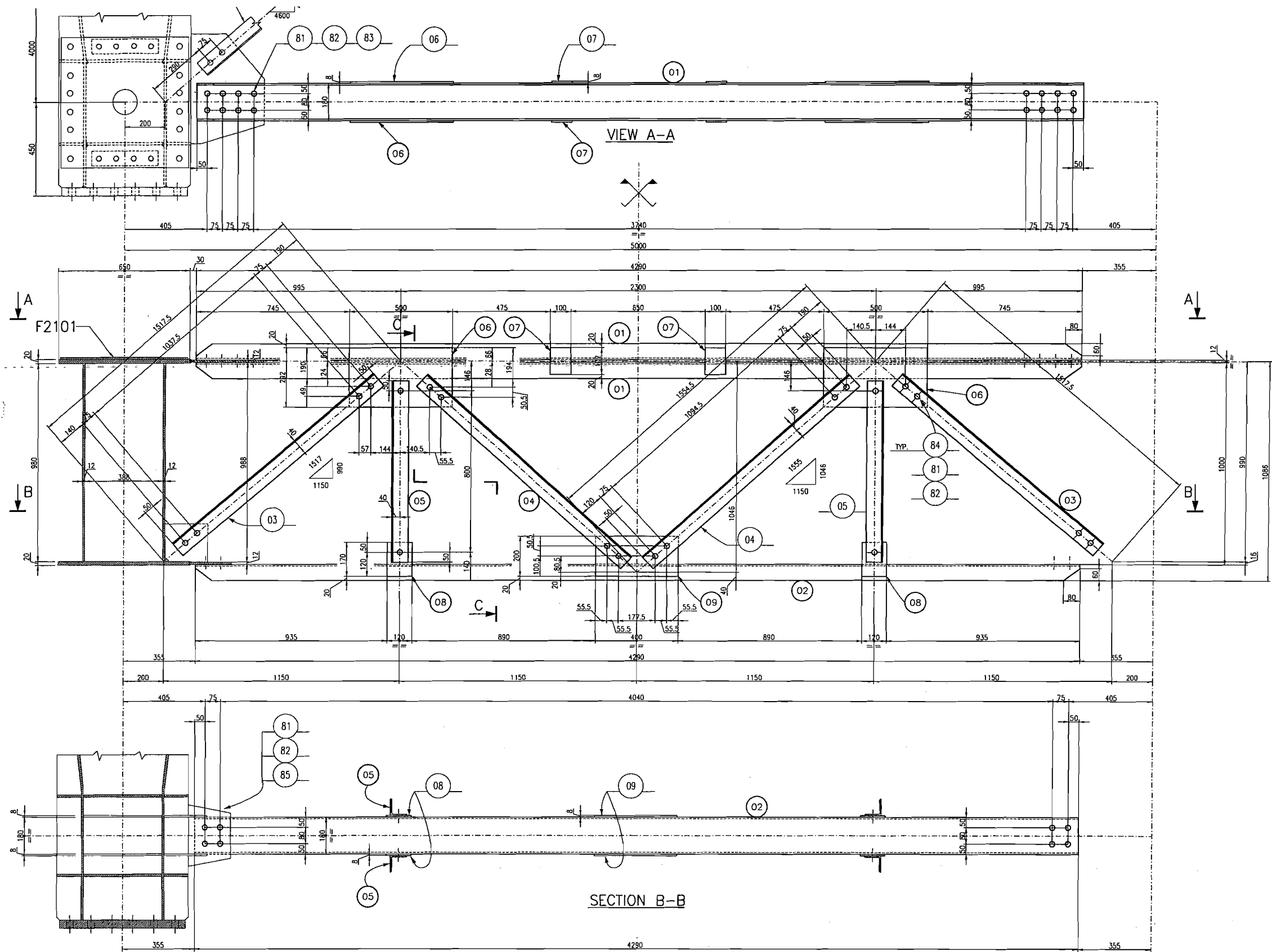
Sede e Stabilimento
Via Bullio-Frazione Cargnacco
33050-Porzano del Friuli (UD)-Italy
Tel.: +39 432 607 900
Fax: +39 432 607 902
e-mail: deal@deal.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

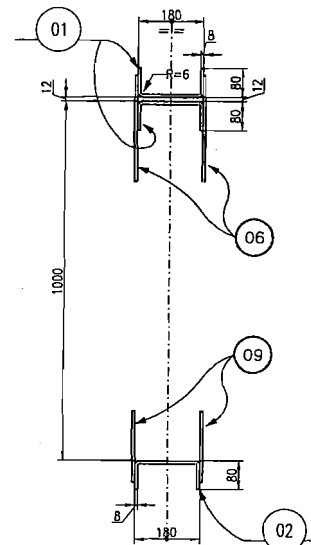
REFERENCE:		STRADDLE CARRIER SC 720 - 32									
OBJECT:		DRIVING AND STEERING WHEEL GROUP									
TITLE:		WHEEL DETAIL									
Substitutes for: ---		Scale 1:20		Sheet 1	Or 1						
File: T06DUCDF001_1.DWG		Format A2									
Fab. No.		Doc. No.		Serial							
- 6 0 0 3 1 1		- 0 6 0 3 4 6		- - - - - -							
Fab. Nr.		Dep.		Doc. Type		Port.		Nr.		Rev.	
T 0 6		D U		C D		F -		0 0 1		1	

CIENT: KIEWIT / FCI / MANSON JV

PROJECT: SKYWAY BRIDGE PROJECT
S. FRANCISCO OAKLAND BAY BRIDGE USA



N. PEZZI	PROFILO	LARGH.	LUNGH.	MARCHI POS.	Peso in kg.	Codice	Qualita' materiale	NOTE
8	LAM. 8	315	4290	01	84.9	679	FES10C	
4	LAM. 8	315	4290	02	84.9	339	FES10C	
16	L80x6		1288	03	9.4	150	FES10C	
16	L80x6		1345	04	9.8	157	FES10C	
16	L80x6		900	05	6.6	105	FES10C	
16	LAM. 8	292	500	06	9.2	147	FES10C	
16	LAM. 8	100	132	07	0.8	13	FES10C	
16	LAM. 8	120	170	08	1.3	20	FES10C	
8	LAM. 8	200	400	09	5.0	40	FES10C	
4	L80x6		5616	10	41.0	164	FES10C	
2	ROD 100		12	11	0.7	1	FES10C	
548	WASHER M24 UNI 5714			81			CS0	
274	NUT M24 UNI 5713			82			8G	
64	SCREW M24x65 UNI 5712			83			10.9	
160	SCREW M24x50 UNI 5712			84			10.9	
48	SCREW M24x55 UNI 5712			85			10.9	
2	SCREW M24x60 UNI 5712			86			10.9	
					1817			



MARK F2001
NR. PIECES 4
UNIT WEIGHT 413 Kg
TOTAL WEIGHT 1652 Kg

REMOVE SHARP CORNERS
WITH R=2

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

DWG size	A0
WELDS (UNI 1310)	
Where not otherwise indicated w=0.7 if minimum 1/8" to be connected	
(Continuous welds)	
Edge preparation for welding in accordance to UNI 11501	
TOLERANCES	
Dimension without tolerance indication	
Structural steel work UNI ISO 2768-M	
Mechanics UNI ISO 2768-F	
FINISHING	
Machining UNI 4600	
TOLERANCES	
Fit ISO (UNI 7218)	

NOTES:
-ALL HOLES ARE Ø26 FOR BOLTS M24 10.9

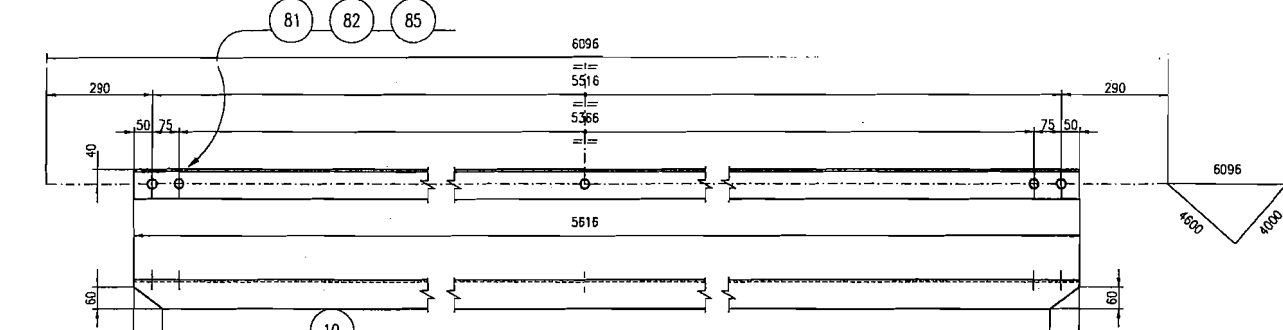
FINAL PAINTING :
ENAMEL BLUE RAL 5017

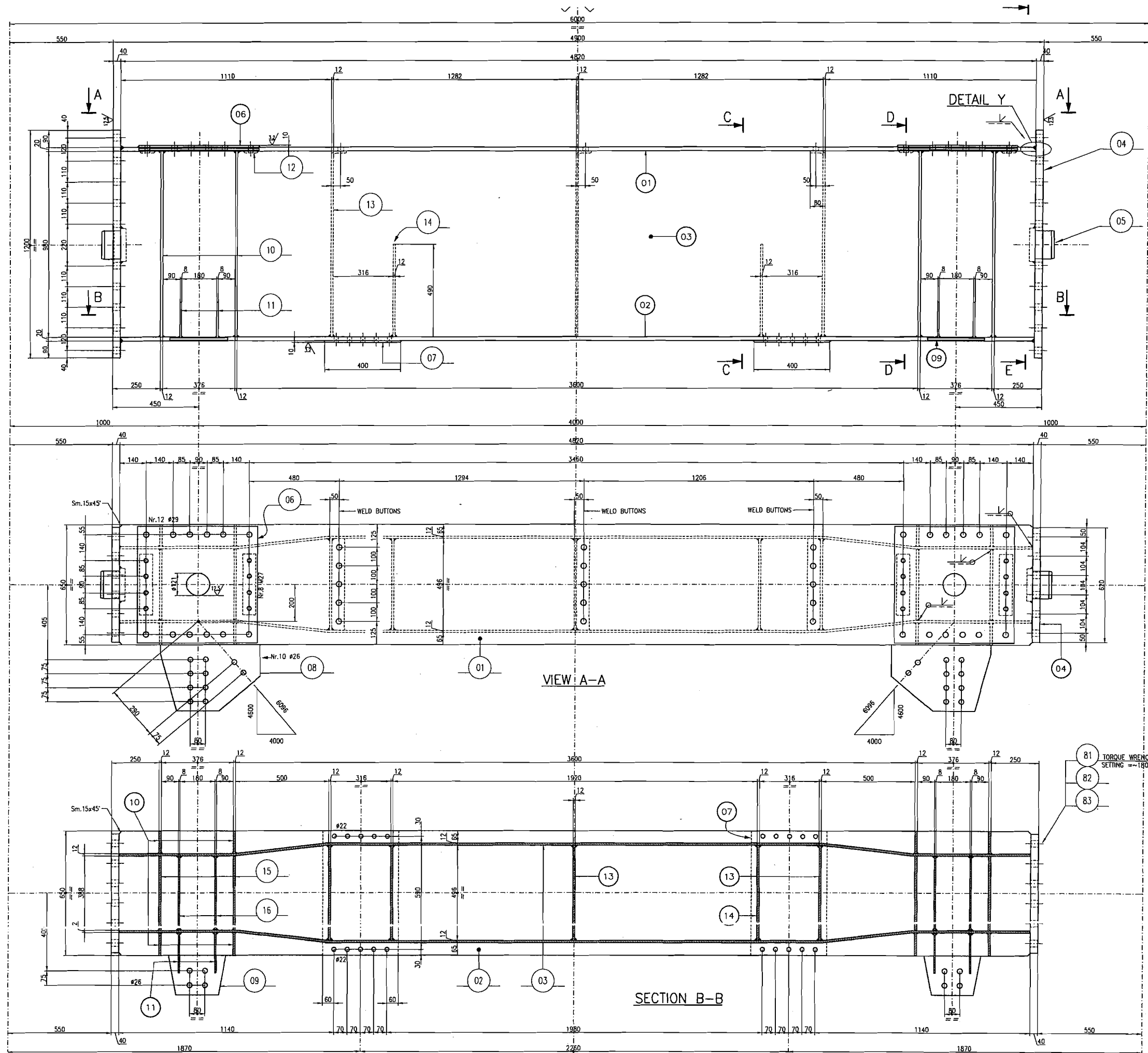
2					
1					
0	08-07-02	FIRST ISSUE	TECNOPROGET S.F.	TECNOPROGET R.V.	LONGOBARDI
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL Sole e Stabilimento per la produzione e la vendita 33020 - Pieve del Friuli (UD) - Italy Tel. +39 0432 800 800 Fax +39 0432 800 800 e-mail: deal@deal.it	CLIENT: SKYWAY BRIDGE PROJECT				
	PROJECT: SKYWAY BRIDGE PROJECT				
	REFERENCE: STRADDLE CARRIER SC 720 - 32				
	OBJECT: TROLLEYS AND SUPPORT				
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION	TIME: CONNECTION BEAM FOR TRANSVERSAL CROSS MEMBER				
	Scale: 1:10				
	Sheet: 1 of 1				
	Format: A1				
File: T06TPCDF020.DWG		Subj.Nr: -6000311		Mir: -6000310	
Job Nr: -6000311		Subj.Nr: -6000310		Mir: -6000310	
Fab. Nr: T06TP		Dep. Nr: CDF		Part. Nr: 0200	
Rev. Nr: 0		Rev. Nr: 0		Rev. Nr: 0	

MARK F2002
NR. PIECES 4
UNIT WEIGHT 41 Kg
TOTAL WEIGHT 164 Kg

MARK F2003
NR. PIECES 2
UNIT WEIGHT 0.7 Kg
TOTAL WEIGHT 1.4 Kg





N. PIECE	PROFILE	WIDTH	LENGTH	MARK POS.	Weight Kg.		Code	Qual. material	NOTES
					Unit.	Total			
4	PL 20	630	4820	01	491.9	1968		FES10C	
4	PL 20	630	4820	02	491.9	1968		FES10C	
8	PL 12	980	4830	03	445.9	3567		FES10C	
8	PL 40	620	1200	04	233.4	1867		FES10C	
8	ROB175		130	05	19.2	154		39NCRM03	
8	PL 10	630	630	06	31.2	249		FES10C	
8	PL 10	400	650	07	20.4	163		FES10C	
8	PL 12	355	524	08	14.4	115		FES10C	
8	PL 12	205	300	09	5.0	40		FES10C	
32	PL 12	119	980	10	11.0	352		FES10C	
16	PL 8	190	210	11	2.5	40		FES10C	
16	PL 10	70	330	12	1.8	29		FES10C	
12	PL 12	496	1040	13	48.6	583		FES10C	
8	PL 12	490	496	14	22.9	183		FES10C	
16	PL 12	388	980	15	35.8	573		FES10C	
16	PL 8	186	388	16	4.5	73		FES10C	
224	SCREW M33X125 UNI5737			81				B. 8	
448	WASHER 34X50 UNI 6592			82				R40	
224	NUT M33 UNI 5588			83				6S	
					11923				

SCALE 1:10
MARK F2101
NR. PIECES 4
UNIT WEIGHT 2980.8 Kg
TOTAL WEIGHT 11923 Kg

REMOVE SHARP CORNERS
WITH R=2

DWG size
A0

WELDS (UNI 1310)
Where not otherwise indicated ø=0.7
of minimum thickness to be connected
(Continuous welds)

WELDING PROCEDURES :
The procedures used shall be
qualified according to EN 288-3,
D.M. 09-01-96, or ASME sect. IX

TOLERANCES
Dimension without tolerance indication
Structural steel work UNI ISO 7188-4
Mechanics UNI ISO 2188-F

FINISHING
Machining UNI 4600

TOLERANCES
Fit ISO (UNI 7218)

FINAL PAINTING :
ENAMEL BLUE RAL 5017

-NOTE-
FOR SECTION C-C, D-D, E-E AND DETAIL SEE DWG. T06TPCDF021B

2
1
0
REV. DATE REV. OBJECT DRAWN CHECKED APPROVED

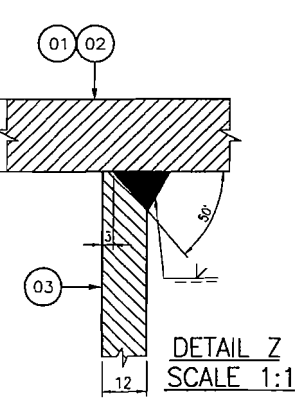
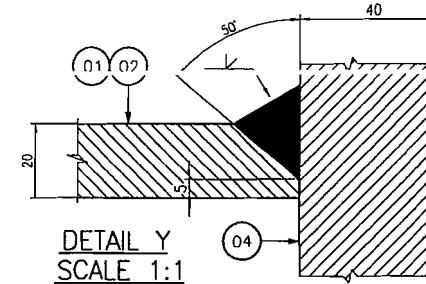
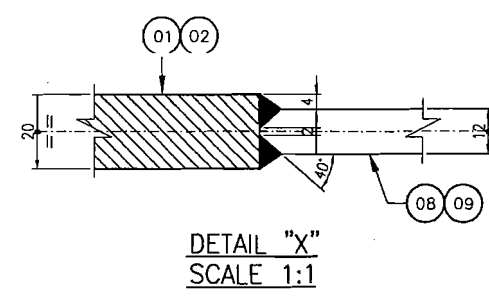
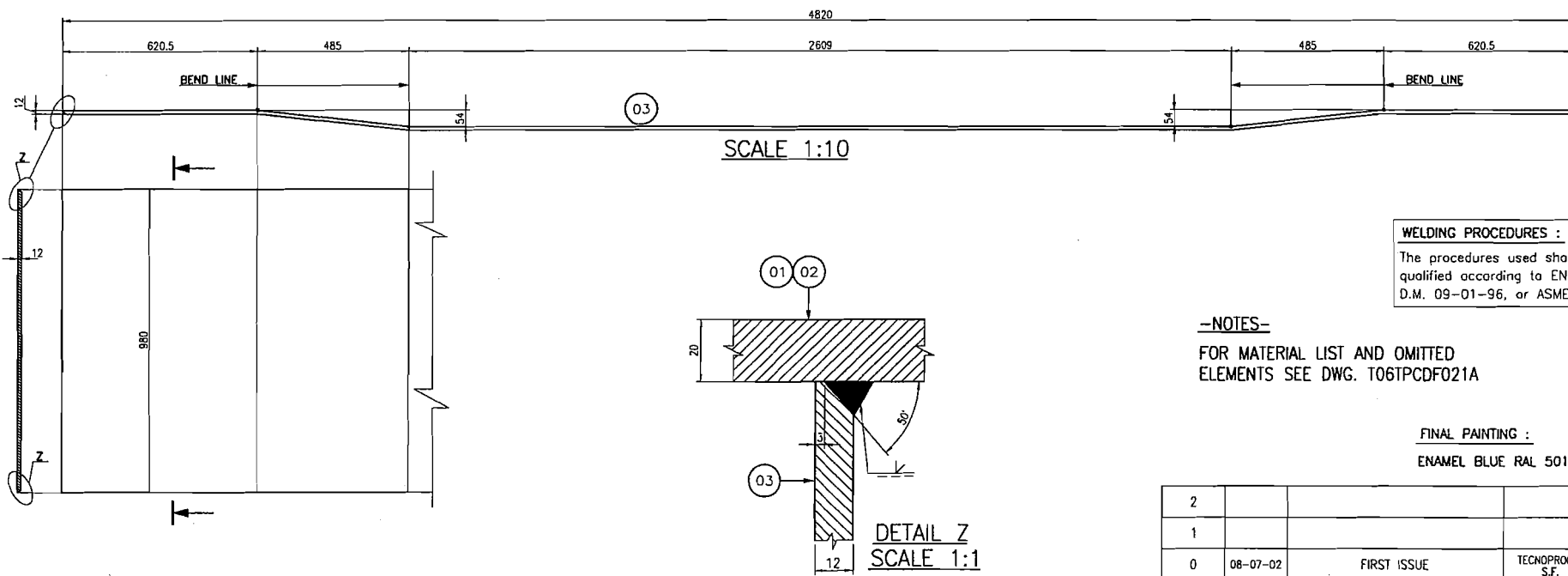
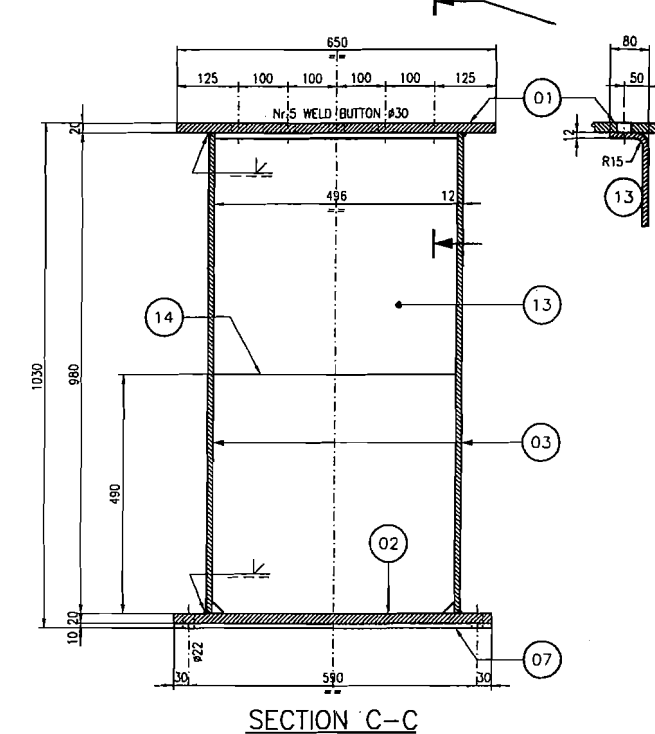
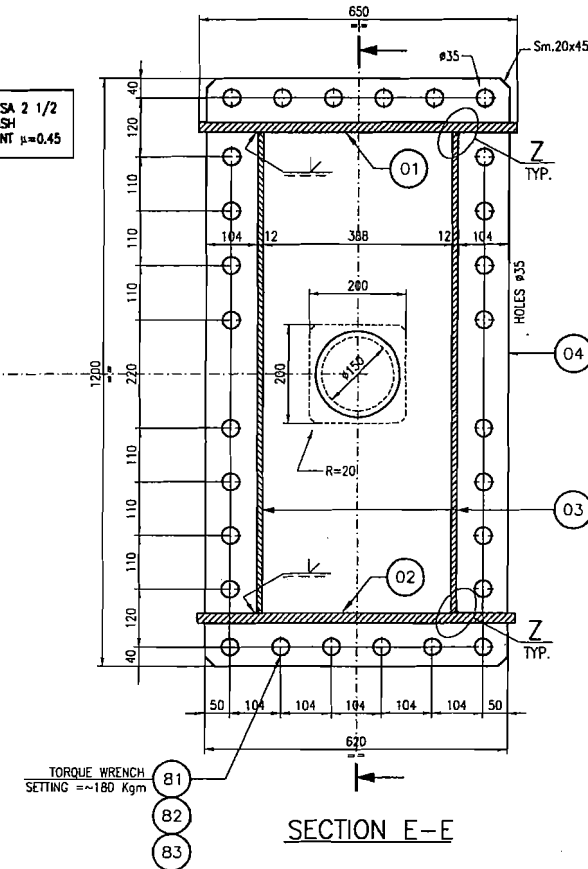
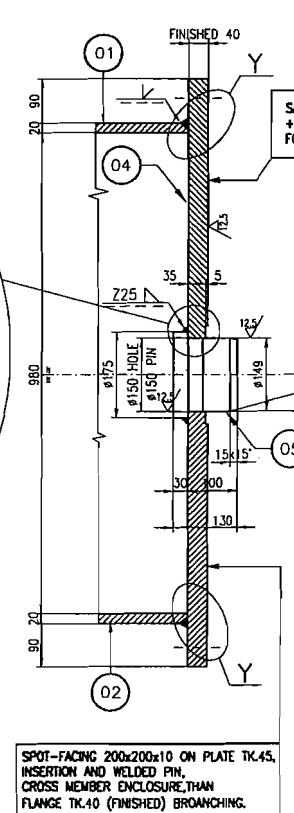
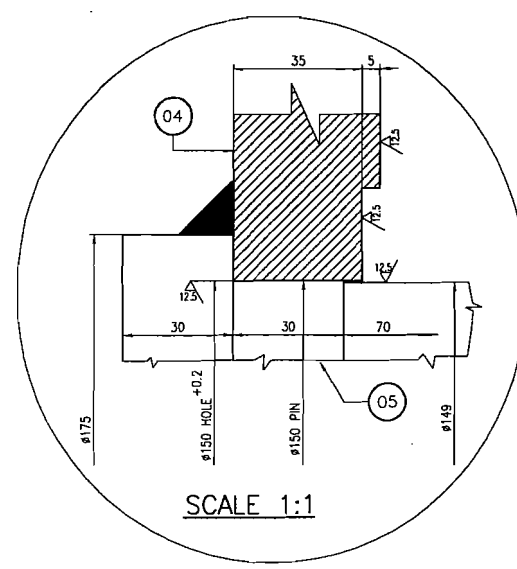
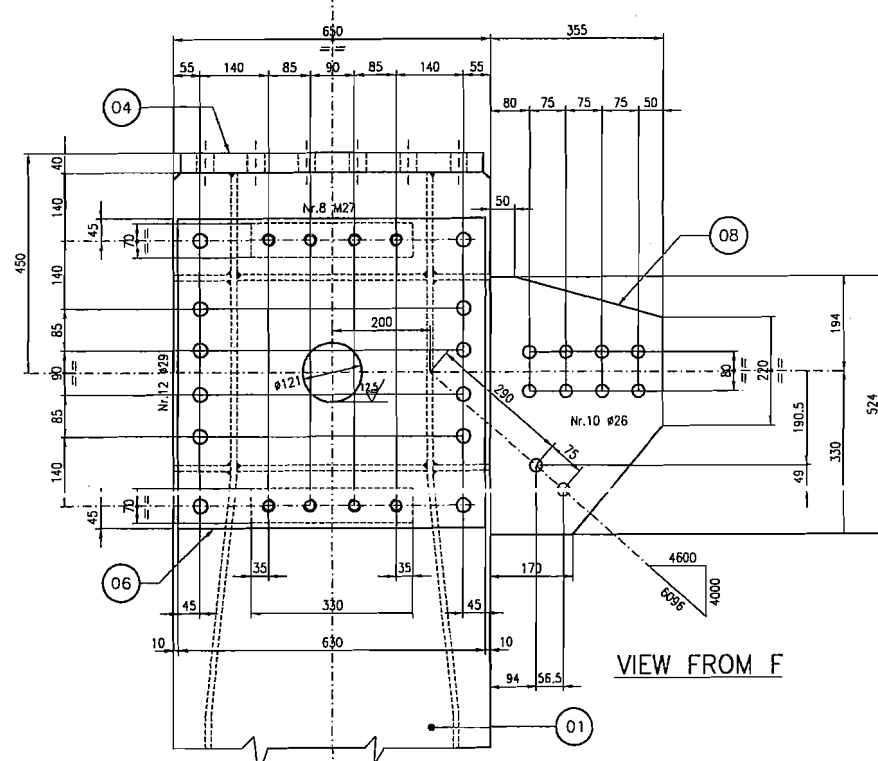
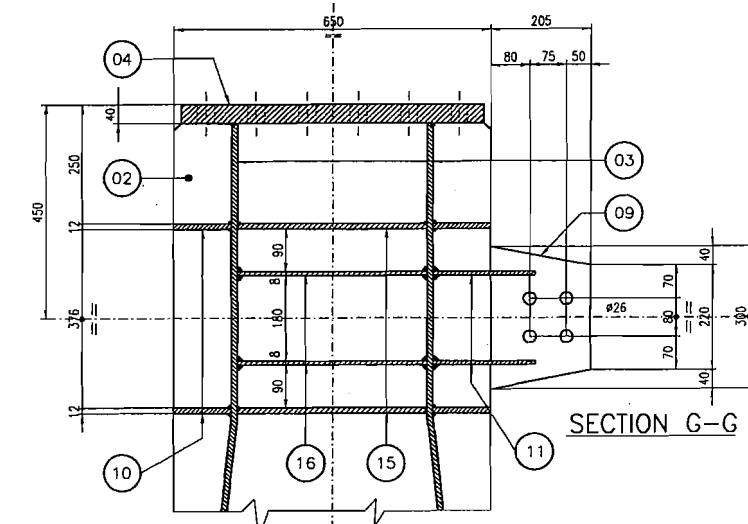
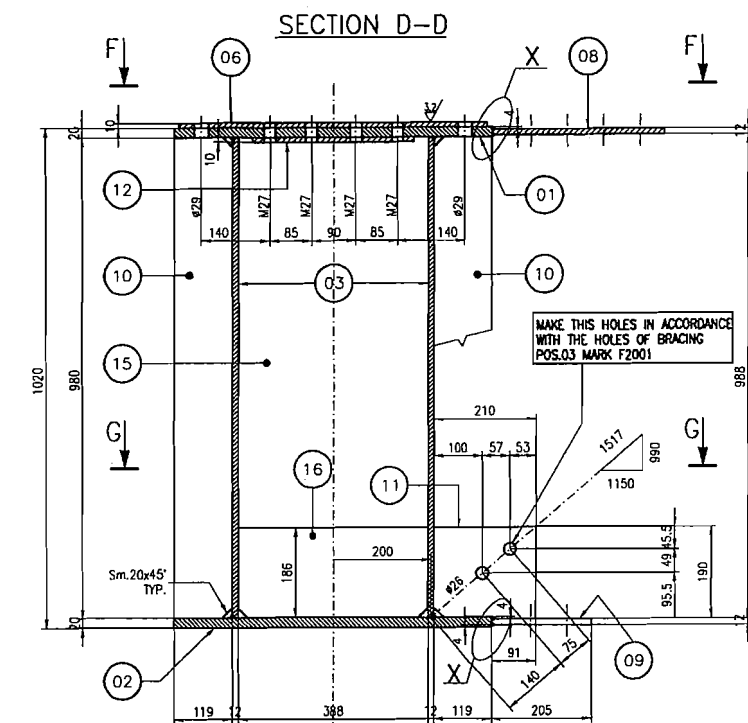
08-07-02 FIRST ISSUE TECNOPROGET S.F. TECNOPROGET R.V. LONGOBARDI

DEAL
Sole e Subordinata
10000 Persone del F.I.A.T. (S.I.)-Italy
Tel. +39 032 607 900
Fax. +39 032 607 902
e-mail: info@deal.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

REFERENCE: STRADDLE CARRIER
SC 720 - 32
OBJECT: TROLLEYS AND SUPPORT
TITLE: TRANSVERSAL CROSS MEMBER
Substitutes for: Scale 1:10 Sheet 1 of 2
Fic: T06TPCDF021A.DWG Format: A1
Job Nr. Sub.J.Nr. Mr. -600311 -060310 - - - - -
Fab. Nr. Dep. Doc. Type Part. Nr. Rev. T06TPCDF-0210

QUOT: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT

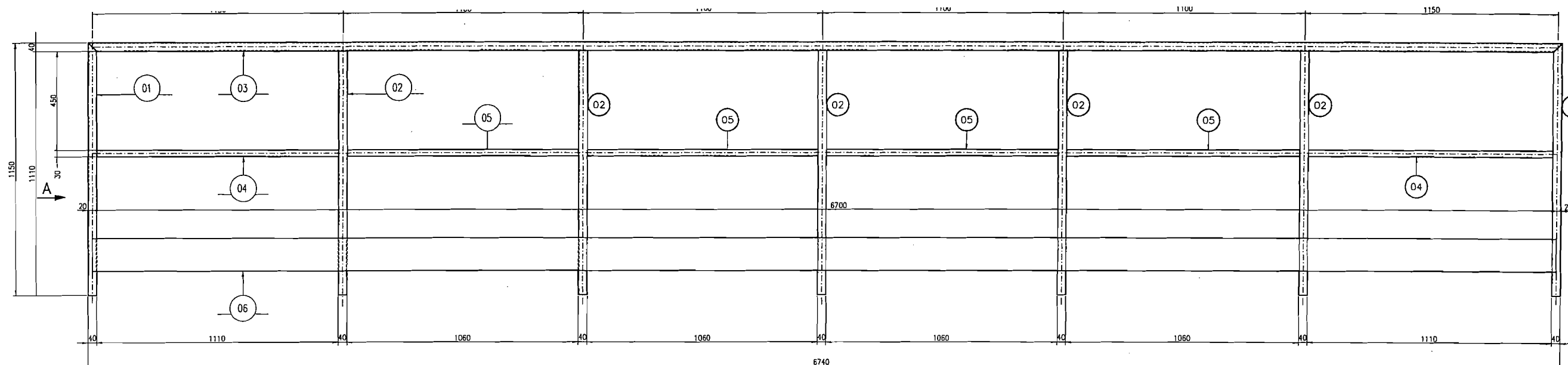


-NOTES-
FOR MATERIAL LIST AND OMITTED ELEMENTS SEE DWG. T06TPCDF021A

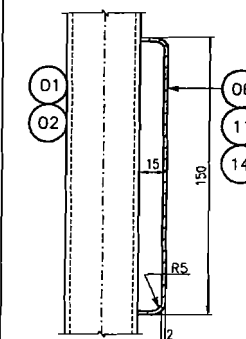
FINAL PAINTING :
ENAMEL BLUE RAL 5017

REMOVE SHARP CORNERS WITH R=2	
DWG size	A1
WELDS (UNI 1310)	
Where not otherwise indicated = 0.3 of minimum thickness to be connected (Continuous welds)	
TOLERANCES	
Dimension without tolerance indication	
Structural steel work UNI ISO 2768-M	
Mechanics UNI ISO 2768-F	
FINISHING	
Machining UNI 4600	
TOLERANCES	
Fit ISO (UNI 7218)	

2					
1					
0	08-07-02	FIRST ISSUE	TECNOPROGET S.F.	TECNOPROGET R.V.	LONGOBARDI
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
DEAL					
Sede e Stabilimento Via Industriale Europa 22050 - Pessano del Garda (BS) - Italy Tel. +39 030 907 900 Fax +39 030 907 902 e-mail: info@deal.it					
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION					
REFERENCE:			STRADDLE CARRIER SC 720 - 32		
OBJECT:			TROLLEYS AND SUPPORT		
TITLE:			TRANSVERSAL CROSS MEMBER SECTION C-C, D-D, E-E AND DETAILS		
Substitutes for:			Scale	1:10 1:7.5 1:1	Sheet 2 of 2
File:			Format	A1	
Job Nr.			Sub.J.Nr.		
Fab. Nr.			Doc. Type	Part	
T06TPCDF					
0210					
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT					

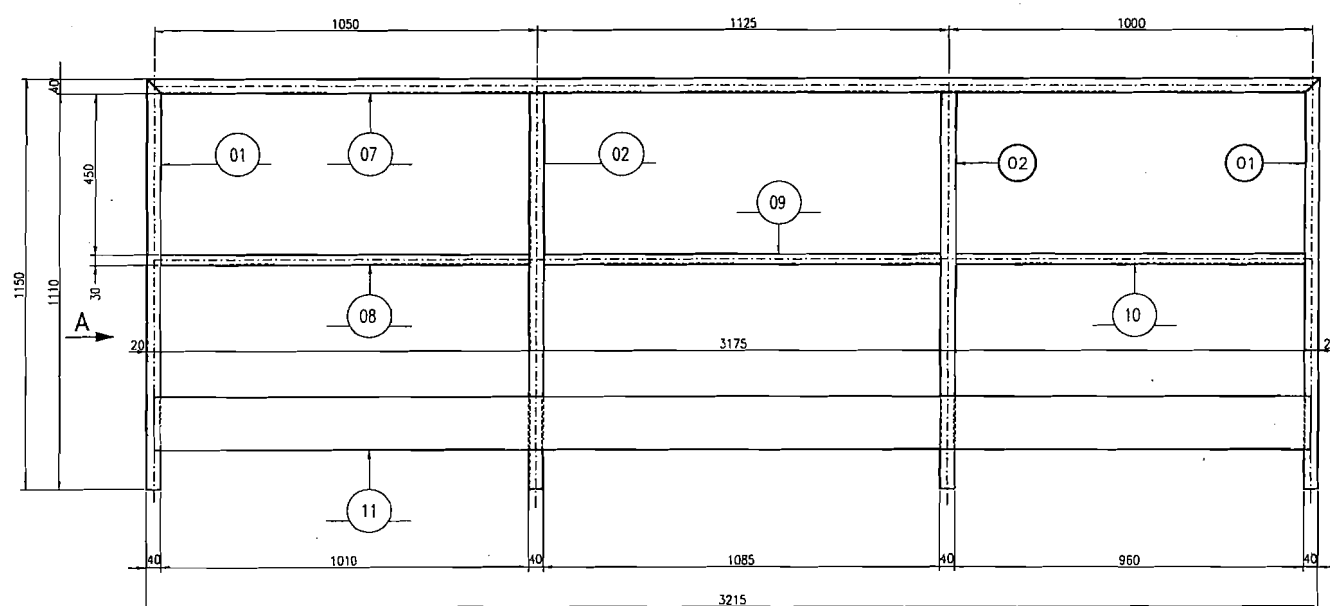


SCALE 1:2



SCALE 1:10

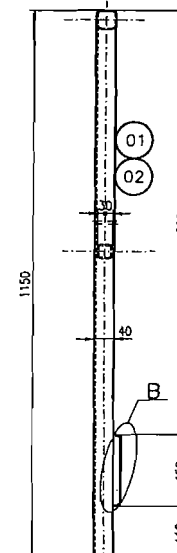
MARK F2501
NR PIECES 4
UNIT WEIGHT 56.3 Kg
TOTAL WEIGHT 226 Kg



SCALE 1:10

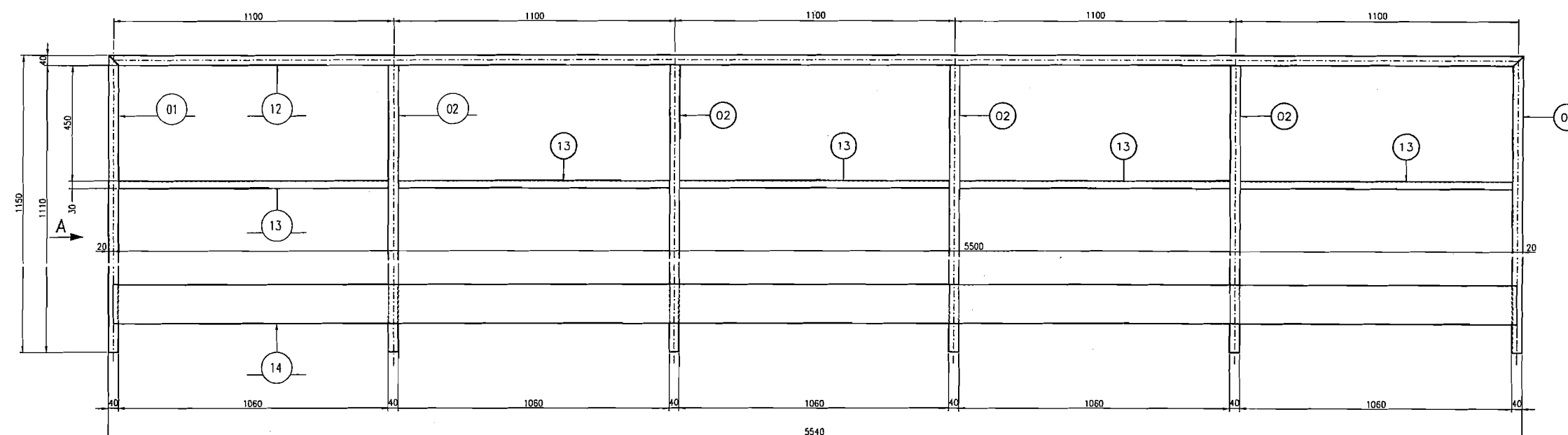
MARK F2502
NR PIECES 2
UNIT WEIGHT 24.3 Kg
TOTAL WEIGHT 49 Kg

VIEW FROM A
TYPICAL
SCALE 1:7.5



SCALE 1:10

MARK F2503
NR PIECES 2
UNIT WEIGHT 47.8 Kg
TOTAL WEIGHT 96 Kg



LIST OF MATERIAL

N. PIEC.	PROFILE	WIDTH	LENGTH	MARK POS.	Weight kg.		Code	Qual. material	NOTES
					Unit.	Total			
16	PIPE 40x40x3		1150	01	4.0	63		FE360B	
32	PIPE 40x40x3		1110	02	4.0	127		FE360B	
4	PIPE 40x40x3		6740	03	2.3	9		FE360B	
8	PIPE 30x30x3		1110	04	1.5	12		FE360B	
16	PIPE 30x30x3		1060	05	1.5	23		FE360B	
4	PL 2	167	6700	06	17.6	70		FE360B	
2	PIPE 40x40x3		3215	07	2.3	5		FE360B	
2	PIPE 30x30x3		1010	08	1.5	3		FE360B	
2	PIPE 30x30x3		1085	09	1.5	3		FE360B	
2	PIPE 30x30x3		960	10	1.5	3		FE360B	
2	PL 2	167	3175	11	1.7	3		FE360B	
2	PIPE 40x40x3		5540	12	2.3	5		FE360B	
10	PIPE 30x30x3		1060	13	1.5	15		FE360B	
2	PL 2	167	5500	14	14.4	29		FE360B	
						369			

REMOVE SHARP CORNERS
WITH R=2

WELDING (UNI 1310)

WELDING PROCEDURES :

The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

Where not otherwise indicated a=0.7 of minimum thickness is to be connected (continuous welds) 5/2
Edge preparation for welding in accordance to UNI 11001

TOLERANCES
Dimension without tolerance indication
Structural steel work UNI ISO 2768-M
Mechanics UNI ISO 2768-F

FINISHING

Machining UNI 4600

TOLERANCES
Fit ISO (UNI 7218)

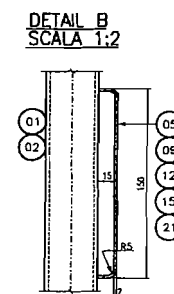
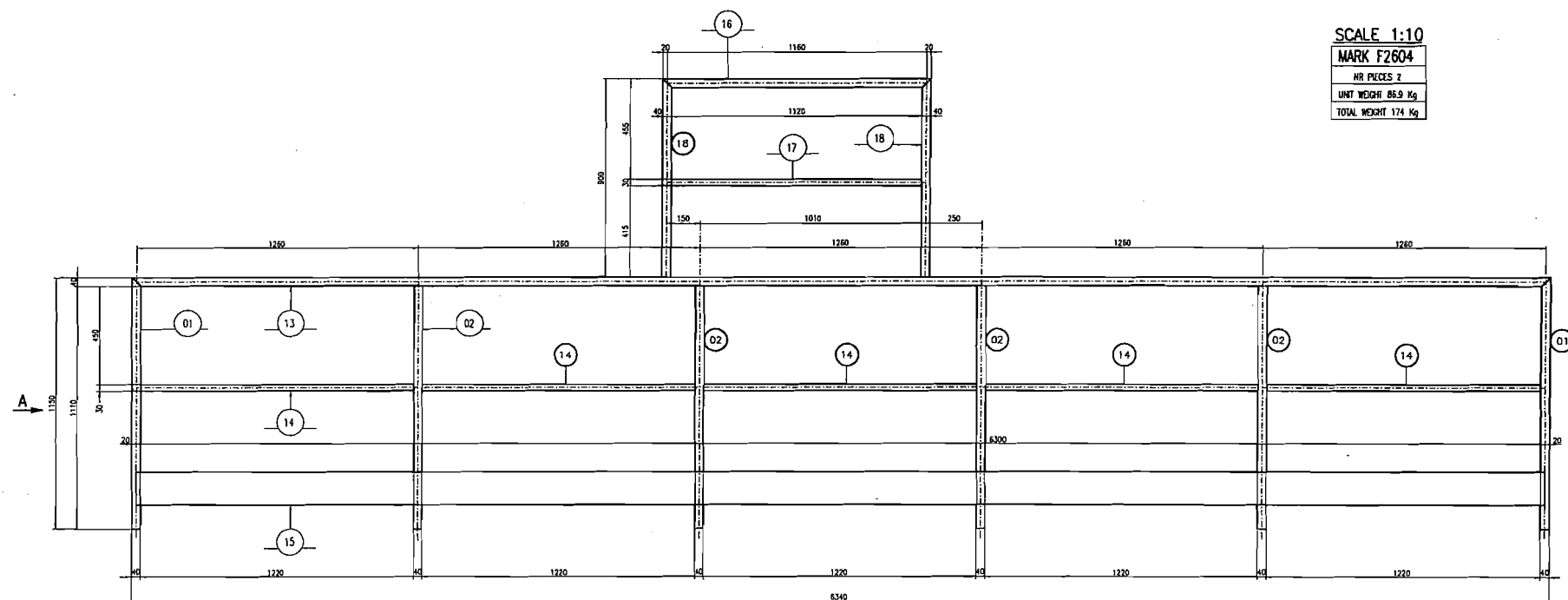
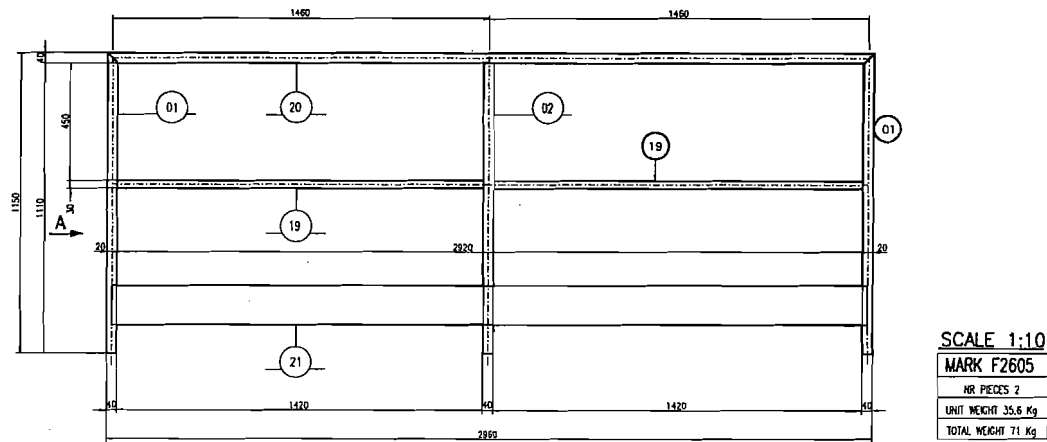
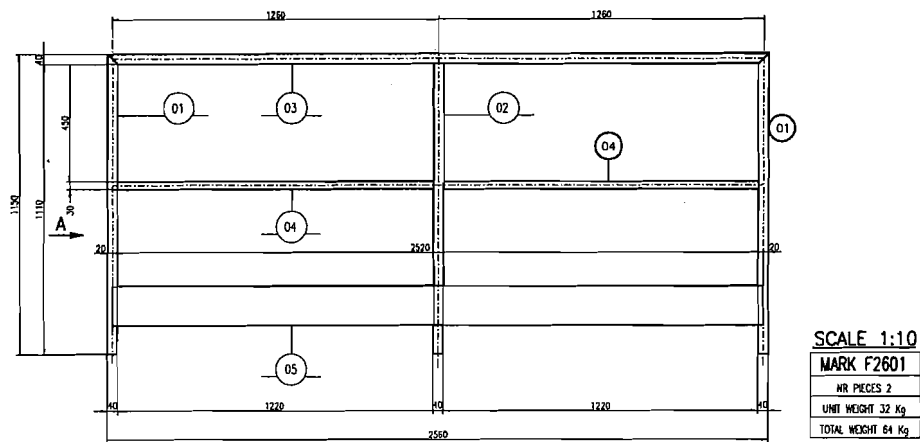
FINAL PAINTING :

ENAMEL BLUE RAL 5017

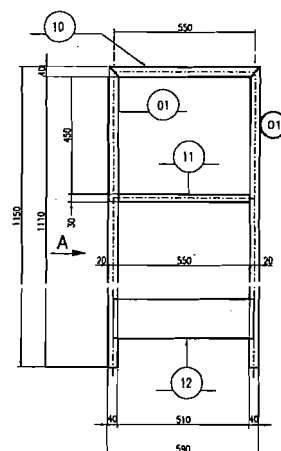
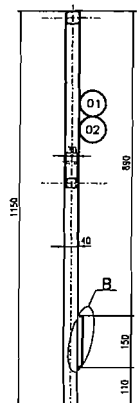
2					
1					
0	01-08-02	FIRST ISSUE	TECNOPROGET S.F.	TECNOPROGET CUCCHARO	LONGOBARDI
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
DEAL Sede e Stabilimento via dell'Industria 10 33020 Pordenone (UD) Italy Tel. +39 0432 901 900 Fax. +39 0432 901 900 e-mail: deal@deal.it					
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION					
REFERENCE: STRADDLE CARRIER SC 720 - 32					
OBJECT: TROLLEYS AND SUPPORT					
TITLE: TROLLEYS AND SUPPORT					
Substitutes for:		Scale: 1:10 1:7.5 1:2	Sheet: 1	Of: 1	
File: T06TPCDF025.DWG		Format: A1			
Job Nr.	Sub-J.Nr.	Mir.			
-6000311	-0600310	-			
Fab. Nr.	Dep.	Doc. Type	Part.	Nr.	Rev.
T06TP	CD	F	-	025	0

KIEWIT / FCI / MANSON JV

SKYWAY BRIDGE PROJECT



VIEW FROM A
TYPICAL
SCALE 1:7.5



SCALE 1:10
MARK F2603
NR. PIECES 2
UNIT WEIGHT 12.3 Kg
TOTAL WEIGHT 24.6 Kg

SCALE 1:10
MARK F2602
NR. PIECES 2
UNIT WEIGHT 40 Kg
TOTAL WEIGHT 80 Kg

ITEM	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	PIPE 40x40x3	1130	01	4.0	4520
2	PIPE 40x40x3	1130	02	3.8	4294
3	PIPE 40x40x3	2540	03	8.9	22606
4	PIPE 30x30x3	1220	04	2.4	2928
5	PL. 2	2520	05	6.6	16632
6	PIPE 40x40x3	3065	06	10.7	32795
7	PIPE 30x30x3	960	07	1.9	1824
8	PIPE 30x30x3	965	08	2.0	1920
9	PL. 2	3025	09	7.9	23897
10	PIPE 40x40x3	590	10	2.0	1180
11	PIPE 30x30x3	510	11	1.0	510
12	PL. 2	550	12	1.4	770
13	PIPE 40x40x3	6340	13	22.2	140748
14	PIPE 30x30x3	2220	14	2.4	5328
15	PL. 2	6300	15	16.5	104050
16	PIPE 40x40x3	1220	16	4.2	5124
17	PIPE 30x30x3	1120	17	2.2	2464
18	PIPE 40x40x3	900	18	3.2	2880
19	PIPE 30x30x3	1420	19	2.9	4118
20	PIPE 40x40x3	2960	20	10.4	30784
21	PL. 2	2920	21	7.7	22474
					463

REMOVE SHARP CORNERS
WITH R=2

WELDING PROCEDURES:
The procedures used shall be
qualified according to EN 288-3,
D.M. 09-01-95, or ASME sect. IX

FINAL PAINTING:
ENAMEL BLUE RAL 5017

WELDING (EN 1318)
Welds shall be performed in accordance with the following table:
Welding process: MIG
Welding position: All positions
Welding speed: 10-15 mm/min
Welding current: 100-150 A
Welding voltage: 18-22 V

WELDING (EN 1318)
Welds shall be performed in accordance with the following table:
Welding process: MIG
Welding position: All positions
Welding speed: 10-15 mm/min
Welding current: 100-150 A
Welding voltage: 18-22 V

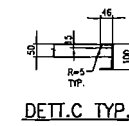
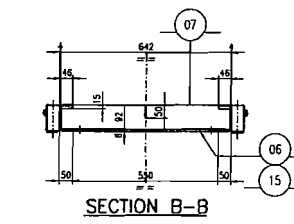
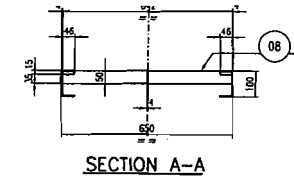
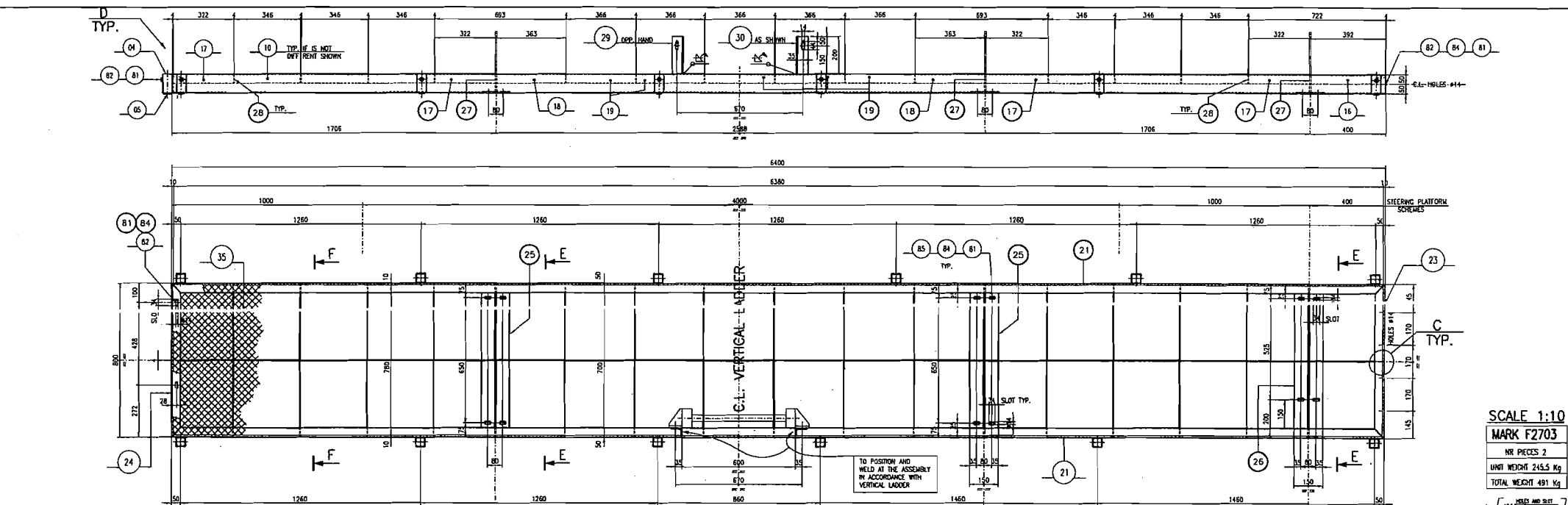
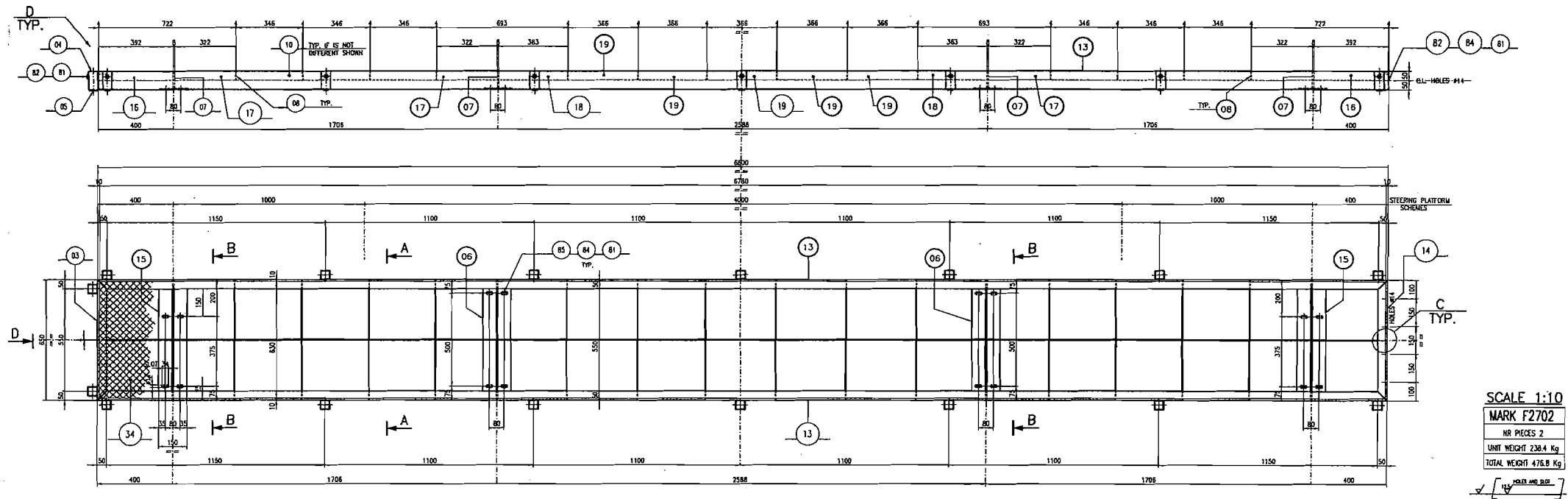
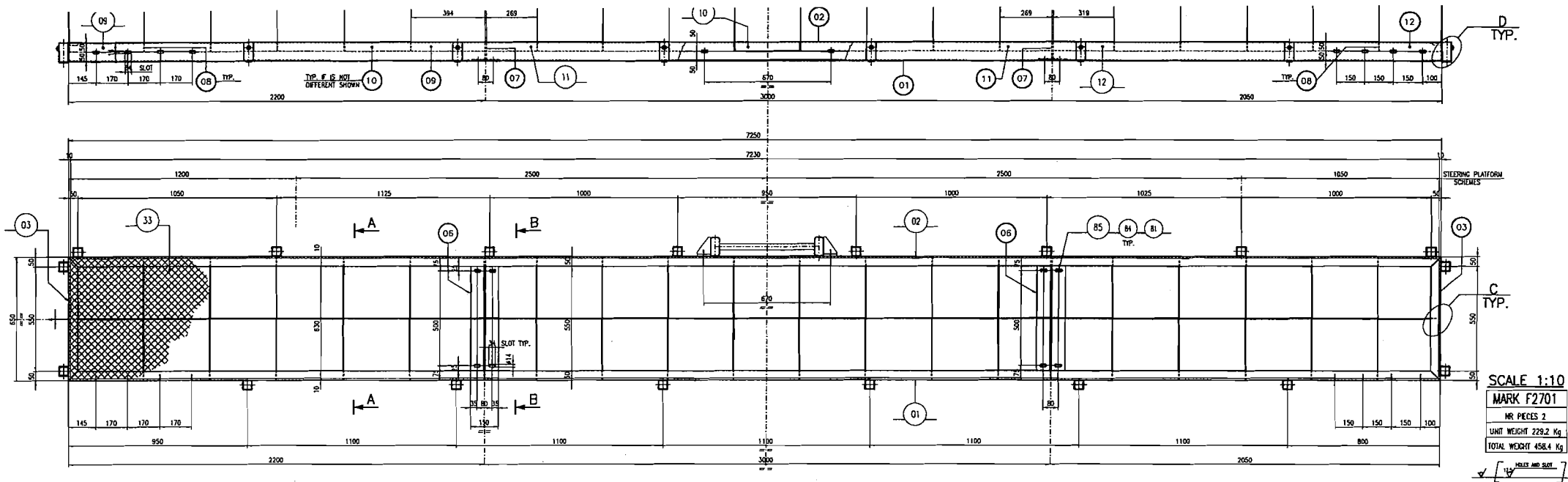
2					
1					
0	01-08-02	FIRST ISSUE	TECHPROJET	TECHPROJET	LONGBOARD
REV.	DATE	REV. SUBJECT	DRAWN	CHECKED	APPROVED

STRADDLE CARRIER
SC 720 - 32
TROLLEYS AND SUPPORT
HANDRAILS

Scale: 1:10 1:7.5 1:2
Sheet: 1 of 1

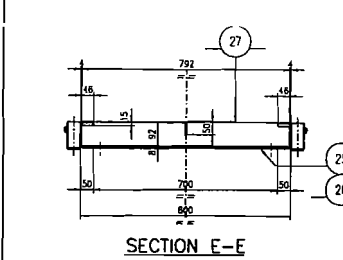
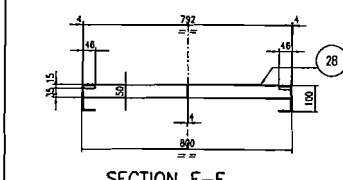
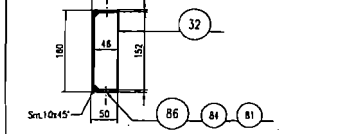
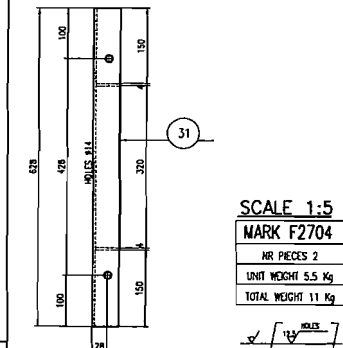
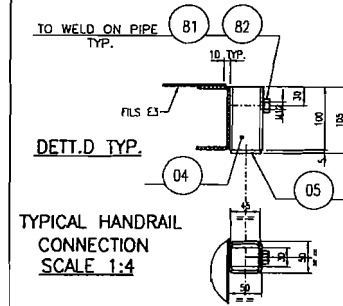
ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR PORTION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

KIEWIT / FCI / MANSON JV



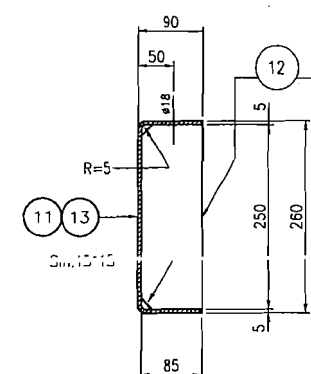
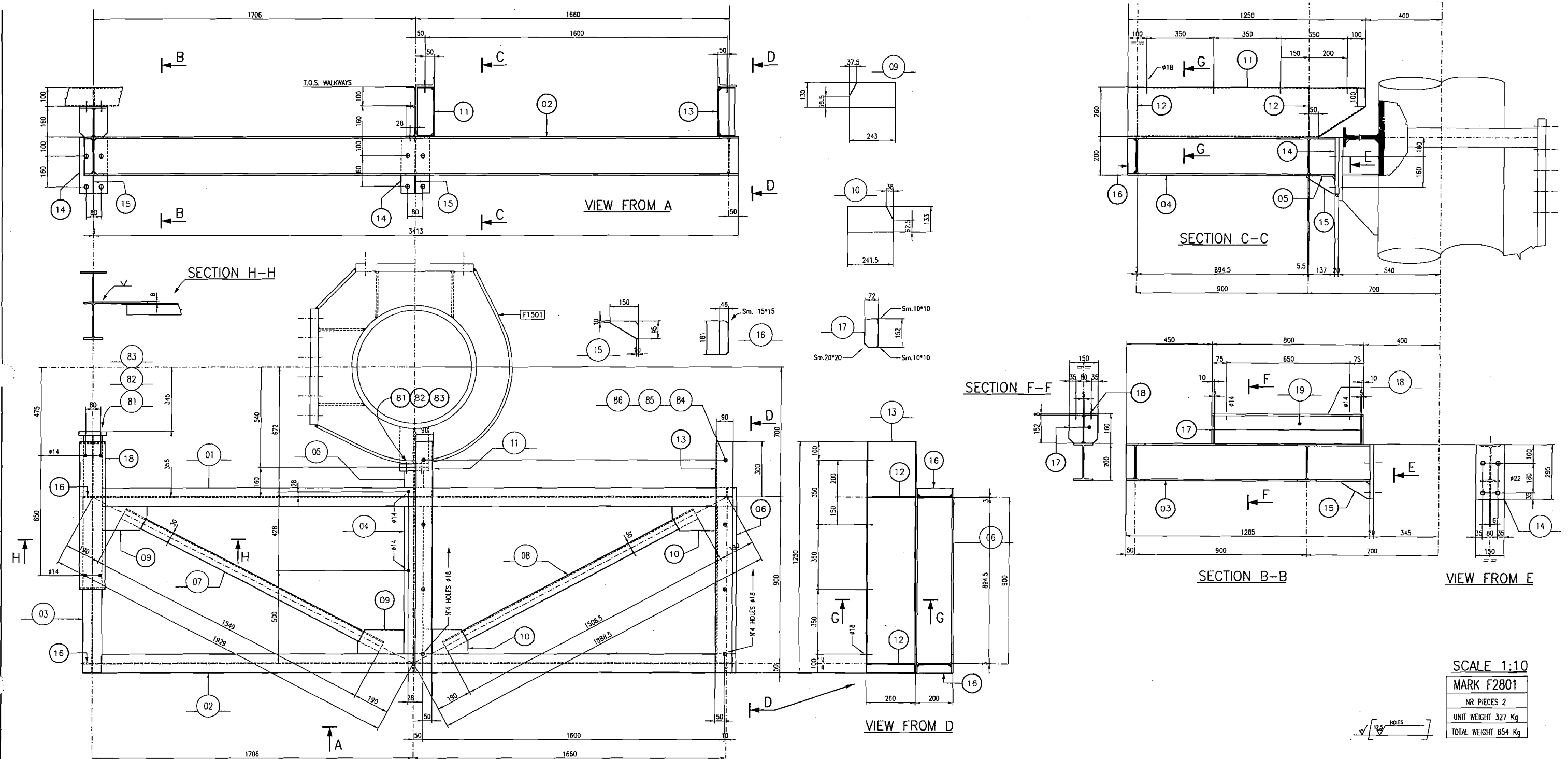
REL.		MD.	Unal.	total	material
2	1100505H	7250	01	31.8	64
3	1100505H	7250	02	31.8	64
6	1100505H	650	03	31.9	191
90	PIPE 50x50x4	100	04	0.5	46
92	PL 5	30	45	0.1	5
10	PL 8	150	550	6.6	41
12	PL 8	50	142	0.7	3.7
64	PL 4	50	142	0.8	1.0
4	PL 4	50	294	0.9	2
54	PL 4	50	246	1.0	29
4	PL 4	50	285	1.1	4
4	PL 4	50	219	1.2	5.5
4	1100505H	680	13	31.9	127
2	1100505H	650	14	31.9	64
4	PL 8	150	550	5.2	21
6	PL 4	50	392	1.6	4
4	PL 4	50	322	1.7	0.5
16	PL 4	50	363	1.9	5
20	PL 4	50	364	1.9	12
4	1100505H	640	21	31.9	127
4	1100505H	800	23	31.9	64
2	1100505H	800	24	31.9	64
4	PL 8	150	790	6.6	26
1	PL 8	150	790	6.6	13
6	PL 8	50	792	2.2	27
20	PL 4	50	792	4.5	24
2	16x4x10x6	990	29	0.9	2
2	16x4x10x6	200	30	0.9	2
2	1100505H	149	31	5.1	10
4	PL 4	46	152	0.2	1
2	FILS E3 BK 3	630	2230	33	9.1
2	FILS E3 BK 3	630	6780	34	86
2	FILS E3 BK 3	780	6380	35	49
189	NOT IN2 UNIT 508	84			IS
113	SOEY H125X40 UN1572	85			B.B
102	WASHER 132x4 UN1572	81			END
75	SOEY H125X40 UN1572	85			B.B
4	SOEY H125X40 UN1572	86			B.B

1437



REMOVE SWAMP CORNERS WITH #2-2	
WELDING PROCEDURES : The procedures used shall be qualified according to EN 288-3, D.M. D9-D1-95, or ASME sect. IX	DEC. 01  EN 13189 There are no relevant indications in 27 The inspection is in accordance with 27 Discontinue with 27 The inspection is in accordance with 27 14-11-2008 Structural Engineer's Initials: Structural Draw No 2728-3 Structural Draw No 2728-3 Finalized Issued by:  Issued by:   14/11/2008 14/11/2008 SWAMPERS (14 150 (14 218))

[illegible]



SECTION G-G
SCALE 1:5

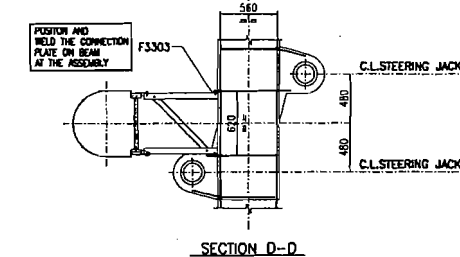
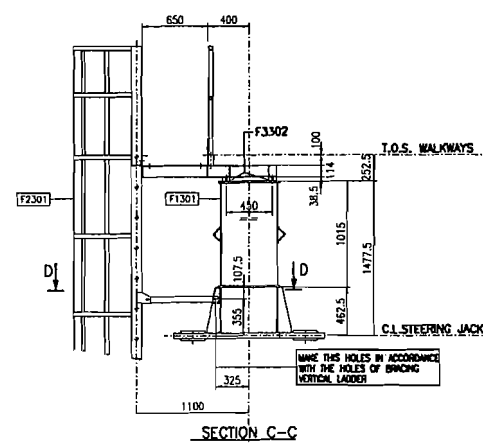
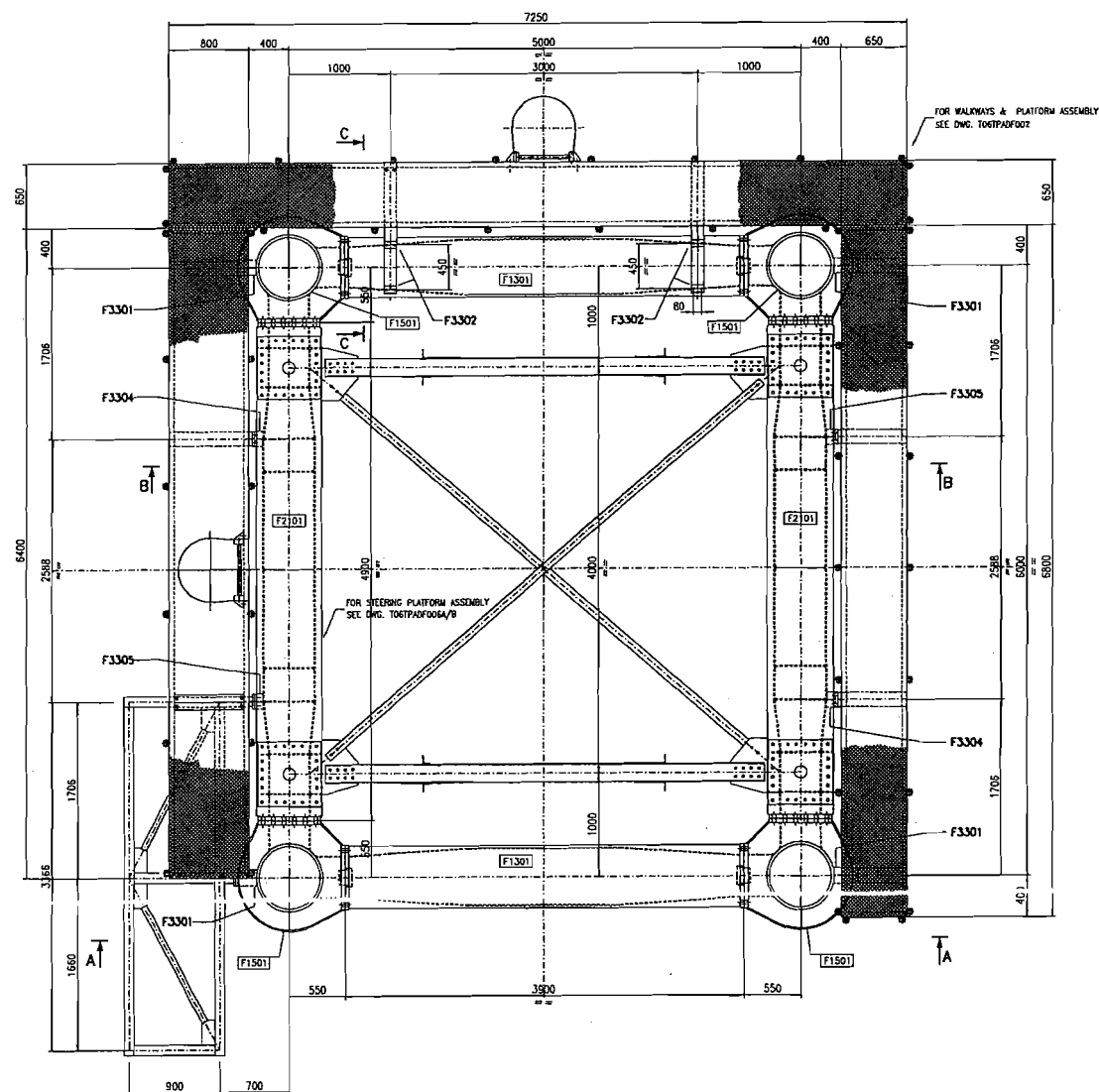
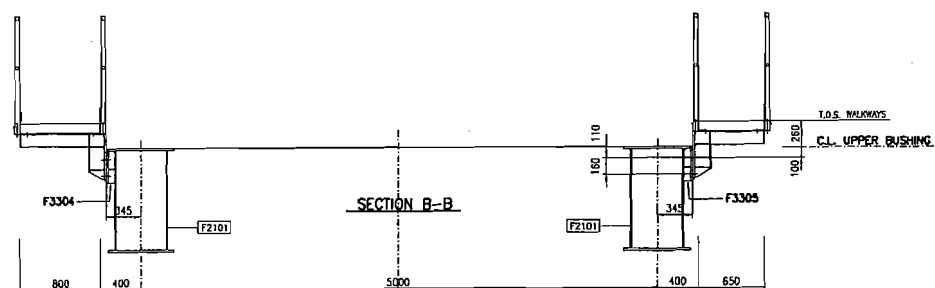
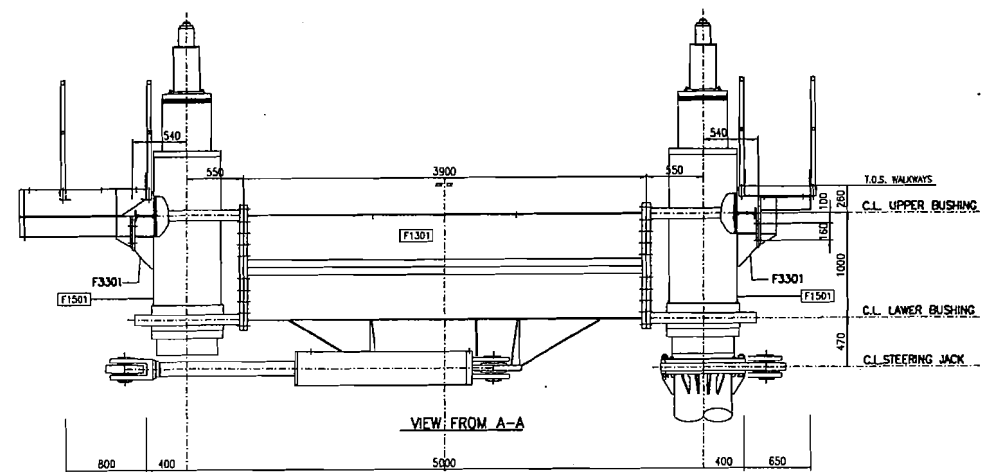
LIST OF MATERIAL									
N. PEC.	PROFILE	WIDTH	LENGTH	MARK POS.	Weight kg.		Code	Qual. material	NOTES
					Unit.	Total			
2	IPE200		3413	01	76.5	153	FE430B		
2	IPE200		3413	02	76.5	153	FE430B		
2	IPE200		1285	03	28.8	58	FE430B		
2	IPE200		894	04	20.0	40	FE430B		
2	IPE200		137	05	3.1	6	FE430B		
2	IPE200		894	06	20.0	40	FE430B		
2	L60x6		1549	07	8.4	17	FE430B		
2	L60x6		1508	08	8.1	16	FE430B		
4	PL 8	130	243	09	2.0	8	FE360B		
4	PL 8	133	242	10	2.0	8	FE360B		
2	PL 5	440	1250	11	21.6	43	FE360B		
2	PL 5	440	1250	12	21.6	43	FE360B		
4	PL 20	150	295	14	6.9	28	FE360B		
4	PL 6	95	150	15	0.6	2	FE360B		
10	PL 6	46	181	16	0.4	4	FE360B		
8	PL 5	72	152	17	0.4	3	FE360B		
2	PL 8	150	800	18	7.5	15	FE360B		
2	PL 5	152	800	19	4.8	10	FE360B		
16	SCREW M20x75 UNI5737			81			B.8		
32	WASHER 21x37 UNI6592			82			R40		
16	NUT M20 UNI5588			83			GS		
16	SCREW M16x40 UNI5737			84			B.8		
32	WASHER 17x30 UNI6592			85			R40		
16	NUT M16 UNI5588			86			GS		

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-1, D.M. 09-01-96, or ASME sect. IX

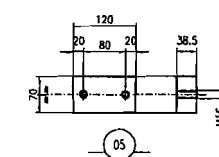
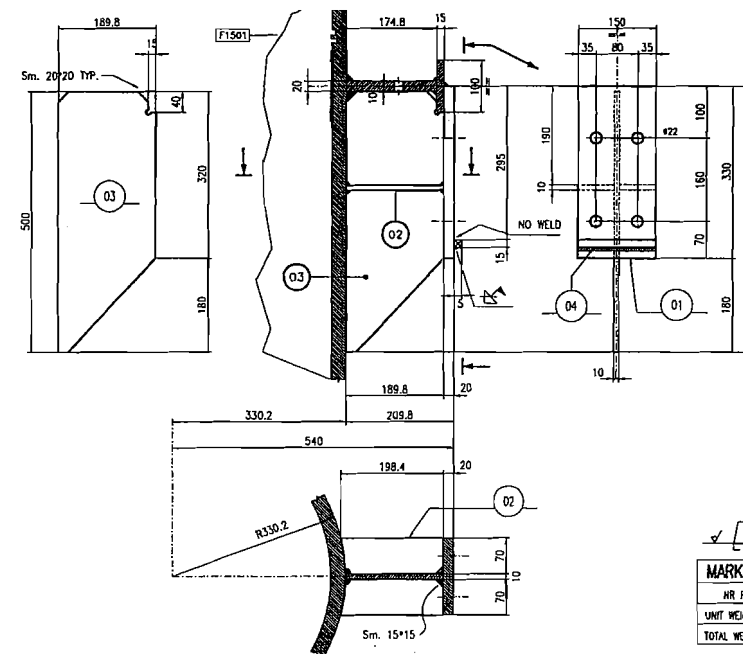
FINAL PAINTING :
ENAMEL BLUE RAL 5017

REMOVE SHARP CORNERS WITH R=2	
DWG size	A1
WELDS (UNI 1310) Where not otherwise indicated s=0.7 of minimum t to be connected (Continuous welds)	
Edge preparation for welding according to UNI 11001	
TOLERANCES Dimension without tolerance indication Structural steel work UNI ISO 2768-M Mechanics UNI ISO 2768-F	
FINISHING Machining UNI 1500	
TOLERANCES Fit ISO (UNI 7218)	

2					
1					
0	01-08-02	FIRST ISSUE	TECNOPROGET S.F.	TECNOPROGET CUCCHARO	LONGOBARDI
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
DEAL Sole e Stabilimento via S. Giovanni Evangelista 33006-Pesaro del Friuli (PS)-Italy Tel. +39 0432 807 900 Fax. +39 0432 807 902 e-mail: deal@deal.it					
STRADDLE CARRIER SC 720 - 32					
TROLLEYS AND SUPPORT					
OPERATING CAG-PLATFORM SUPPORT					
Substitutes for:		Scale	1:10 1:5	Sheet	of
File: T06TPCDF028.DWG		Format	A1	1	1
Job No. [6][0][3][1]		Sub.J.Nr.	[0][6][0][3][1][0]	Mir.	[][][][][][][]
Fab. No.		Dep.	Doc. Type	Part.	Nr.
T06TP		CD	F	-	0280
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT					

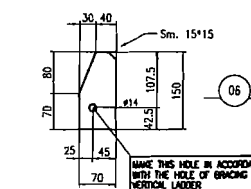


LIST OF MATERIAL WALKWAY'S SUPPORT TO WELD ON STEERING PLATFORM									
N. REC.	PROFILE	WIDTH	LENGTH	MARK POS.	Equiv. Wt.		Code	Qunt. material	NOT
					Unit	Total			
16	PL 20	150	3200		7.8	124			
8	PL 10	70	1500	03	1.1	17	FC510C		
8	PL 10	190	500	03	6.2	49	FC510C		
18	PL 15	150	204		0.3	4	FC510C		
PL 29	70	120	05		2.6	21	FC510C		
2	PL 10	70	150		0.7	1	FC510C		
8	PL 10	65	70	07		3	FC510C		
8	PL 10	70	72	08		4	FC510C		
8	PL 10	65	320	09	1.4	13	FC510C		
						236			



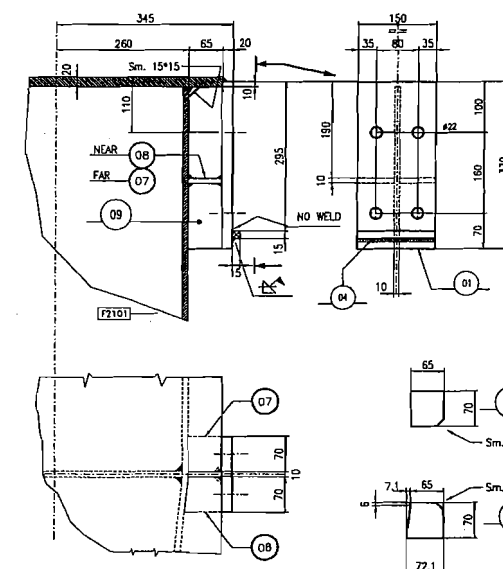
✓ [15 ^{HOLDS}]

MARK F3302
NR PIECES 8
UNIT WEIGHT 2.6 Kg
TOTAL WEIGHT 21 Kg



✓ [125 HOURS]

MARK F3303
NR PIECES 2
UNIT WEIGHT 0.7 Kg
TOTAL WEIGHT 1.4 Kg



✓ [12.5 HOLS]

MARK F3304
NR PIECES 4
UNIT WEIGHT 10.4 Kg
TOTAL WEIGHT 42 Kg

AS SHOWN

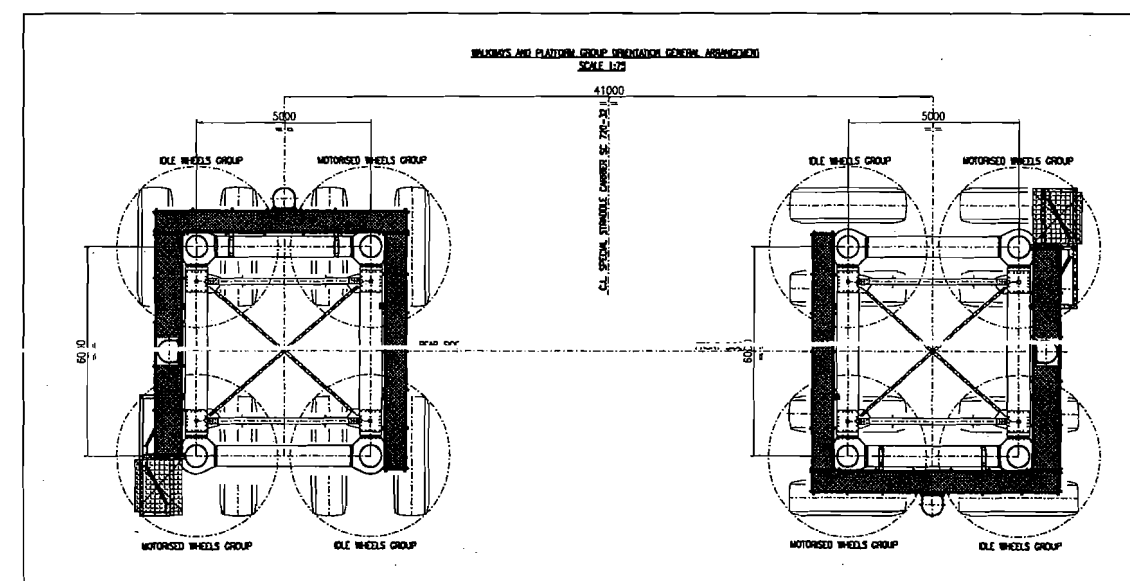
✓ [$\frac{4\frac{1}{2}}{4}$ MOLES]

MARK F3305
NR PIECES 4
UNIT WEIGHT 10.4 Kg
TOTAL WEIGHT 42 Kg

OPP.HAND

WALKWAY'S SUPPORT TO WELD
ON STEERING PLATFORM ASSEMBLY

F7501 MARK STEERING PLATFORM STRUCTURE
F3305 MARK WALKWAY'S SUPPORT TO WELD ON STEERING PLATFORM



REMOVE SHARP CORNERS WITH FILE				
WELDING PROCEDURES : The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX	ONE JOBS <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;">A.T.</td> <td style="width: 30%; text-align: center;">NUM</td> <td style="width: 40%; text-align: center;">13103</td> </tr> </table> Welds not shown additional $\frac{1}{2}$" minimum length in the groove Welds to be made in accordance with the following: (See preparation for welds in accordance with EN 12100) TOLERANCES Dimensional and Form tolerances indicated Structural steel shall use EN ISO 2768-M Mechanics use ISO 2768-1	A.T.	NUM	13103
A.T.	NUM	13103		
FINAL PAINTING : ENAMEL BLUE RAL 5017				

2					
1					
0	02-06-02	FIRST ISSUE	TECHPROJCT S.F.	TECHPROJCT CLOCKHANG	LONGSHAW
REV.	DATE	REV. OBJECT	REASON	REMARKS	REVISION

DEAL John A. Strickland 2000 W. 14th St. Apt. 202 Los Angeles, CA 90048 Tel.: (213) 621-0230 Fax: (213) 621-0230 Email: jstrickland@aol.com	STRADDLE CARRIER SC 720 - 32	
	TROLLEYS AND SUPPORT	
	WALKWAYS SUPPORTS TO WELD ON STEERING PLATFORM	
	DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSTION THEREOF WITHOUT DEAL AUTHORIZATION	DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
	DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
	DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
	DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

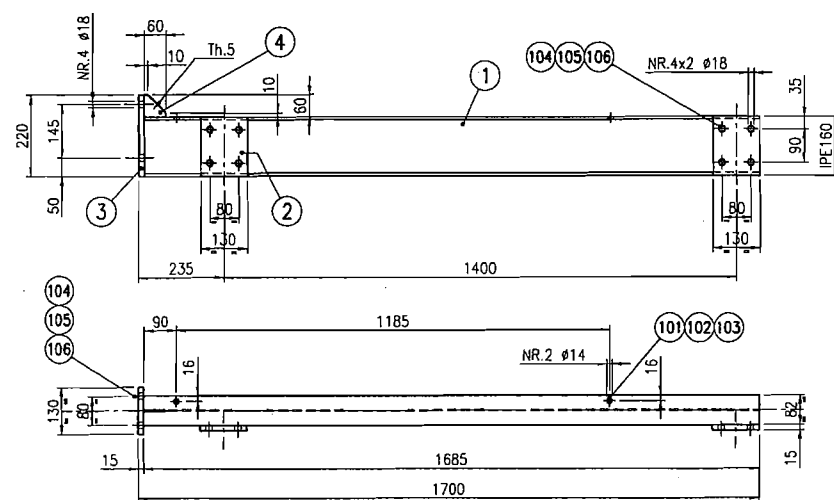
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

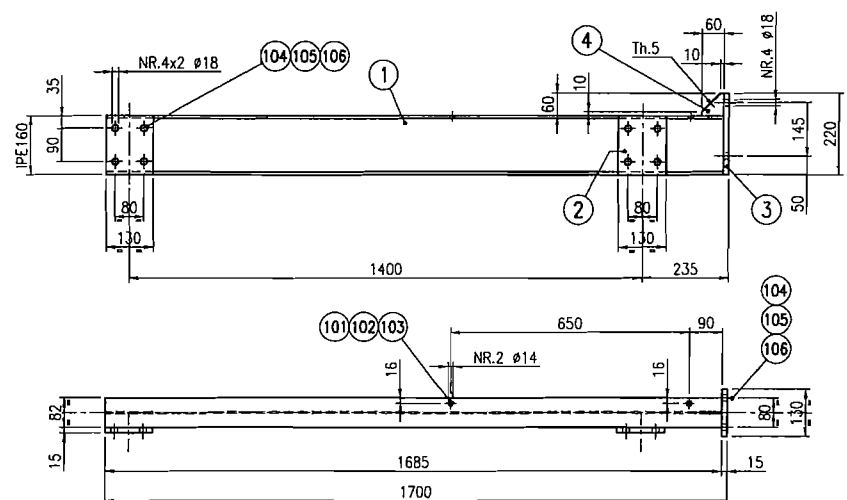
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	

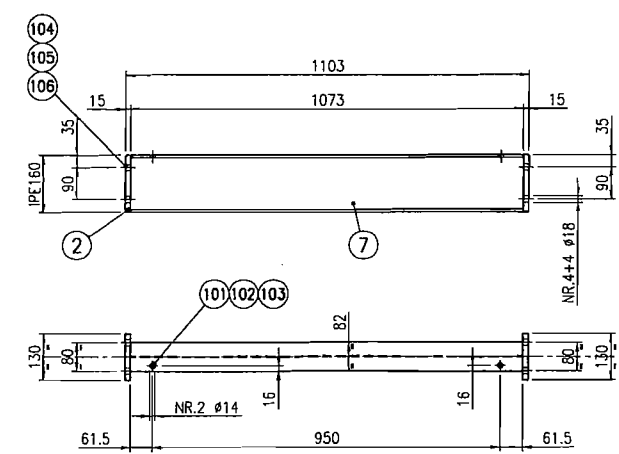
DATE: 06/26/02 03:33 PM User: JSTRICKLAND Project: 06/26/02 03:33 PM	
DATE: 06/26/0	



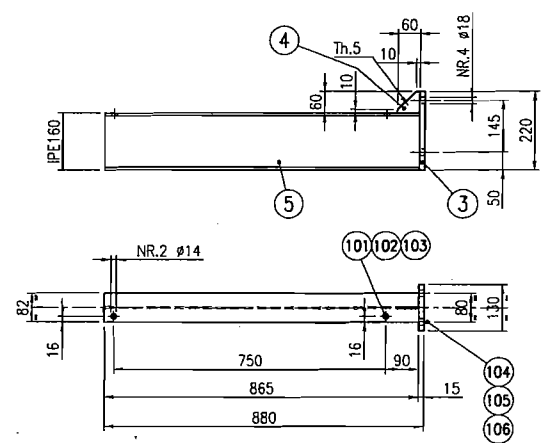
RIGHT PIECE
MARK F3501
Nr. PIECES 1
LEFT PIECE
MARK F3502
Nr. PIECES 1
UNIT WEIGHT 35 Kg
TOTAL WEIGHT 70 Kg



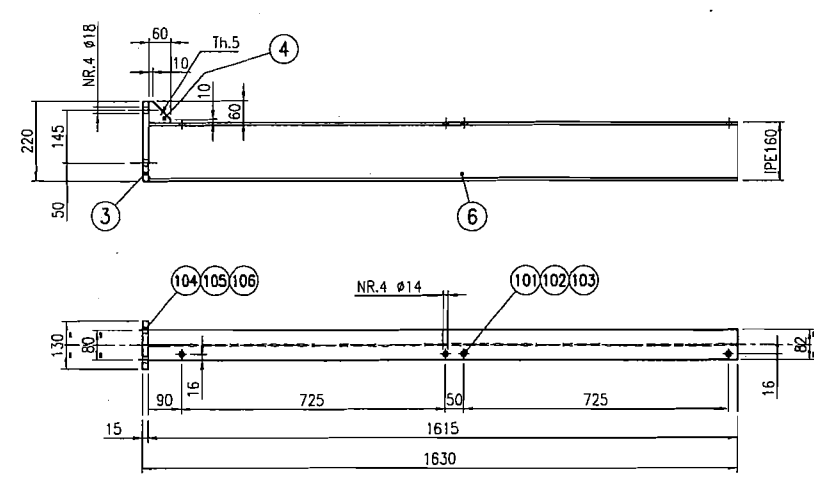
RIGHT PIECE
MARK F3503
Nr. PIECES 1
LEFT PIECE
MARK F3504
Nr. PIECES 1
UNIT WEIGHT 35 Kg
TOTAL WEIGHT 70 Kg



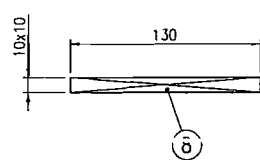
MARK F3509
NR. PIECES 4
UNIT WEIGHT 21.8Kg
TOTAL WEIGHT 87.2Kg



RIGHT PIECE
MARK F3507
Nr. PIECES 2
LEFT PIECE
MARK F3508
Nr. PIECES 2
UNIT WEIGHT 17.2 Kg
TOTAL WEIGHT 68.8 Kg



RIGHT PIECE
MARK F3505
Nr. PIECES 2
LEFT PIECE
MARK F3506
Nr. PIECES 2
UNIT WEIGHT 29 Kg



MARK F3510
NR. PIECES 12
UNIT WEIGHT 0.1Kg

TOTAL WEIGHT =415 Kg

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX
FINAL PAINTING :
ENAMEL BLUE RAL 5017

WELDS (UNI 1310)	
Where not otherwise indicated 0.07 at minimum min. to be connected	
(Continuous welds)	
Edge preparation for welding in accordance to UNI 11001	
TOLERANCES	
Dimension without tolerance indication	
Structural steel work UNI ISO 2768-M	
Mechanics	UNI ISO 2768-T
FINISHING	
Machining	UNI 4320
Welding	UNI 4320
Painting	UNI 4320

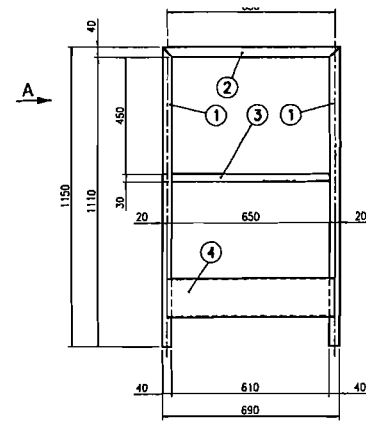
106	80	WASHER 17 UNI 6592					
105	80	NUT M16 UNI 5588		6S			
104	80	SCREW M16x60 UNI 5739		8.8			
103	40	WASHER 13 UNI 6592					
102	40	NUT M12 UNI 5588		6S			
101	40	SCREW M12x30 UNI 5739		8.8			
8	12	SQUARE 10x130		Fe 360 B	0.1	1.2	
7	4	BEAM IPE 160 L=1073		Fe 430 B	17	68	
6	4	BEAM IPE 160 L=1615		Fe 430 B	25.5	102	
5	4	BEAM IPE 160 L=865		Fe 430 B	13.7	54.8	
4	12	PLATE 60x5 L=60 SHAPED		Fe 360 B	0.1	1.2	
3	12	PLATE 130x15 L=220		Fe 360 B	3.4	40.8	
2	16	PLATE 130x15 L=160		Fe 360 B	2.4	38.4	
1	4	BEAM IPE 160 L=1685		Fe 430 B	26.6	106.4	
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES
2							
1							
0	06-08-02	FIRST ISSUE	EsseTre	CUCCHIARO	RUBIS		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED		

DEAL

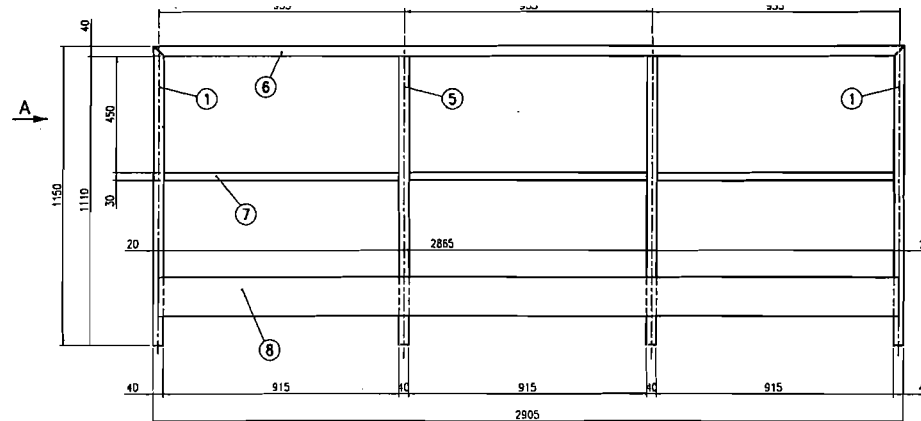
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION

REFERENCE:		STRADDLE CARRIER SC 720 - 32	
OBJECT:		VERTICAL STRUCTURE	
TITLE:		INTERMEDIATE BRACKET DETAILS	
Substitutes for:	Scale 1:10	Sheet 1	Of 1
File: T06DMCDF035.DWG	Format A1		
Job No. 10600311	Subj. No. 060310	Mir. 1	1
Fab. No. 10600311	Dep. No. 060310	Port. 1	1
T06DMCDF-0350			

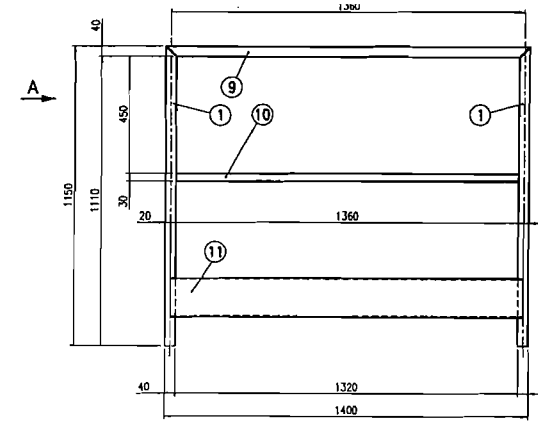
KIEWIT / FCI / MANSON JV
SKYWAY BRIDGE PROJECT



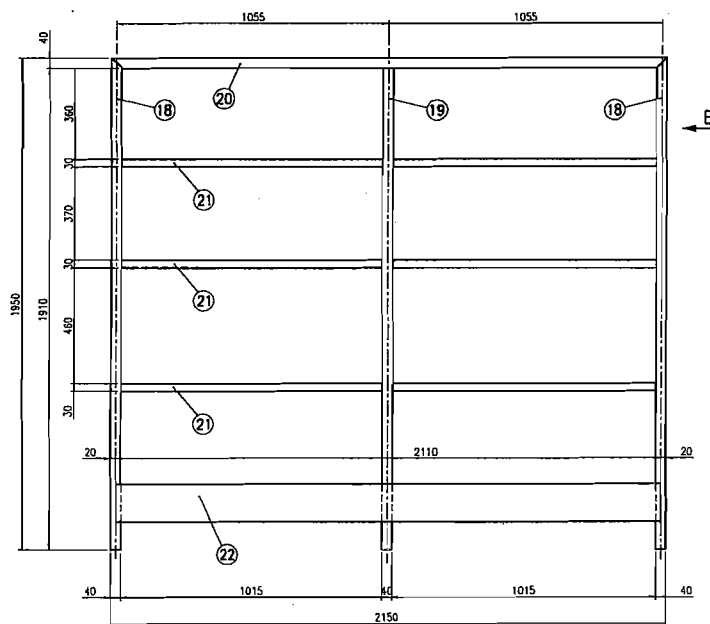
MARK F3601
NR. PIECES 2
UNIT WEIGHT 16.1Kg
TOTAL WEIGHT 32.2Kg



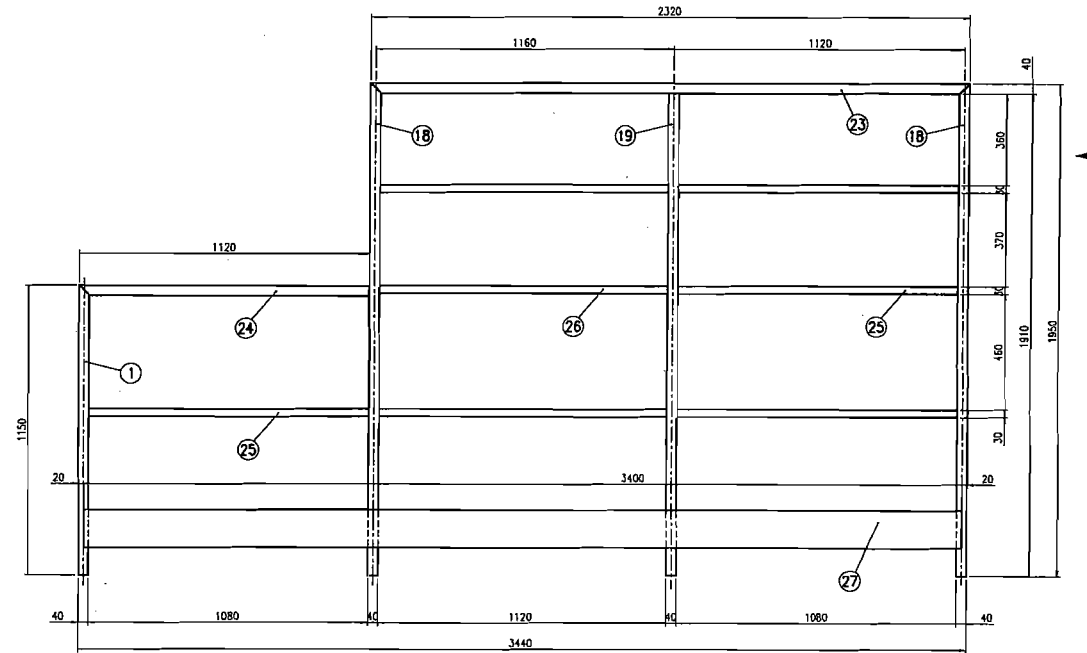
MARK F3602
NR. PIECES 2
UNIT WEIGHT 47.5Kg
TOTAL WEIGHT 95Kg



MARK F3603
NR. PIECES 2
UNIT WEIGHT 23.2Kg
TOTAL WEIGHT 46.4Kg



MARK F3606
NR. PIECES 2
UNIT WEIGHT 56.8Kg
TOTAL WEIGHT 113.2Kg



RIGHT PIECE
MARK F3607
NR. PIECES 1
UNIT WEIGHT 74.5 Kg
TOTAL WEIGHT 149 Kg

LEFT PIECE
MARK F3608
NR. PIECES 1
UNIT WEIGHT 74.5 Kg
TOTAL WEIGHT 149 Kg

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-95, or ASME sect. IX

FINAL PAINTING :
ENAMEL BLUE RAL 5017

TOLERANCES :
EN 10204 (Annex 2)

TOTAL WEIGHT = 560 Kg

30	2	PLATE 167x2 L=1400 BENT	* Fe 3608	3.7	7.4	
29	4	SQUARE PIPE 30x3 L=710	* Fe 3608	1.6	7.2	
28	2	SQUARE PIPE 40x3 L=1440 SHAPED	* Fe 3608	6.3	12.6	
27	2	PLATE 167x2 L=3400 BENT	* Fe 3608	8.9	17.8	
26	6	SQUARE PIPE 30x3 L=1120	* Fe 3608	2.8	16.8	
25	8	SQUARE PIPE 30x3 L=1080	* Fe 3608	2.7	21.6	
24	2	SQUARE PIPE 40x3 L=1120 SHAPED	* Fe 3608	5	10	
23	2	SQUARE PIPE 40x3 L=2320 SHAPED	* Fe 3608	10.3	20.6	
22	2	PLATE 167x2 L=2110 BENT	* Fe 3608	5.5	11	
21	12	SQUARE PIPE 30x3 L=1015	* Fe 3608	2.6	31.2	
20	2	SQUARE PIPE 40x3 L=2150 SHAPED	* Fe 3608	9.5	19	
19	4	SQUARE PIPE 40x3 L=1910	* Fe 3608	8.6	34.4	
18	8	SQUARE PIPE 40x3 L=1950 SHAPED	* Fe 3608	8.7	69.6	
17	2	PLATE 167x2 L=365 BENT	* Fe 3608	1	2	
16	2	SQUARE PIPE 30x3 L=325	* Fe 3608	0.8	1.6	
15	2	SQUARE PIPE 40x3 L=405 SHAPED	* Fe 3608	1.6	3.2	
14	2	PLATE 167x2 L=900 BENT	* Fe 3608	2.3	4.6	
13	2	SQUARE PIPE 30x3 L=860	* Fe 3608	2.2	4.4	
12	2	SQUARE PIPE 40x3 L=840 SHAPED	* Fe 3608	4	8	
11	2	PLATE 167x2 L=1360 BENT	* Fe 3608	3.6	7.2	
10	2	SQUARE PIPE 30x3 L=1320	* Fe 3608	3.3	6.6	
9	2	SQUARE PIPE 40x3 L=1400 SHAPED	* Fe 3608	6.1	12.2	
8	2	PLATE 167x2 L=2865 BENT	* Fe 3608	7.5	15	
7	6	SQUARE PIPE 30x3 L=915	* Fe 3608	2.3	13.8	
6	2	SQUARE PIPE 40x3 L=2905 SHAPED	* Fe 3608	12.9	25.8	
5	6	SQUARE PIPE 40x3 L=1110	* Fe 3608	5	30	
4	2	PLATE 167x2 L=650 BENT	* Fe 3608	1.7	3.4	
3	2	SQUARE PIPE 30x3 L=610	* Fe 3608	1.5	3	
2	2	SQUARE PIPE 40x3 L=550 SHAPED	* Fe 3608	2.7	5.4	
1	26	SQUARE PIPE 40x3 L=1150 SHAPED	* Fe 3608	5.1	132.6	

POS.	QTY	DESCRIPTION	COO.	MATERIAL	SW.	WT.	NOTES
2							
1							
0	06-08-01	FIRST ISSUE	EXISTE	GERMANO	REBT		
REV.	DATE	REV. OBJECT	DESIGN	CHECKED	APPROVED		

DEAL

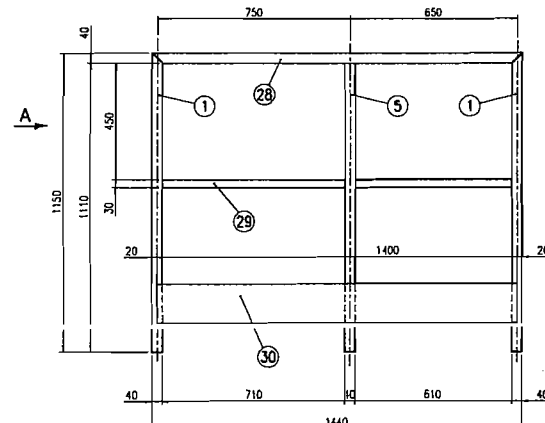
STRADOLE CARRIER
SC 720 - 32
VERTICAL STRUCTURE
INTERMEDIATE HANDRAILS DETAILS

Scale: 1:10
Sheet: 1 of 1

TOBOMC036.DWG
T06DMCD0310

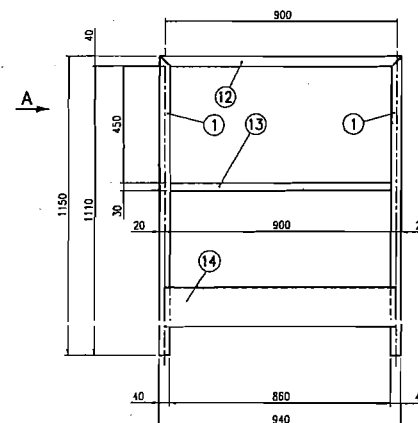
ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

KIEWIT / FCI / MANSON JV

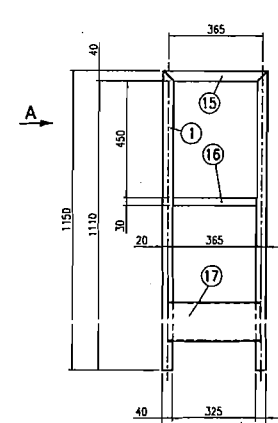


RIGHT PIECE
MARK F3609
NR. PIECES 1
UNIT WEIGHT 29 Kg

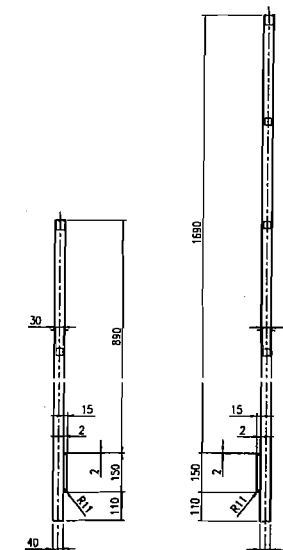
LEFT PIECE
MARK F3610
NR. PIECES 1
UNIT WEIGHT 29 Kg



MARK F3604
NR. PIECES 2
UNIT WEIGHT 18.5Kg

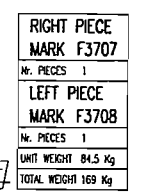
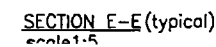


MARK F3605
NR. PIECES 2
UNIT WEIGHT 13.6Kg



VIEW FROM A
TYPICAL

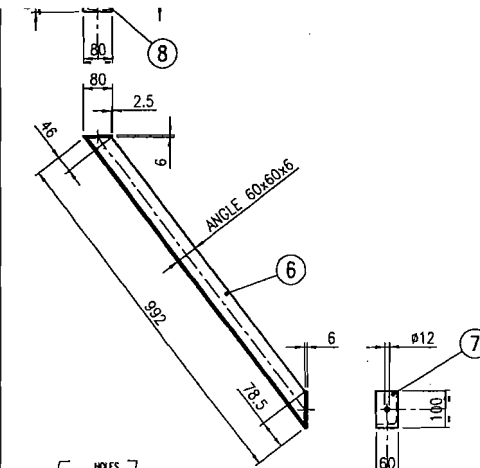
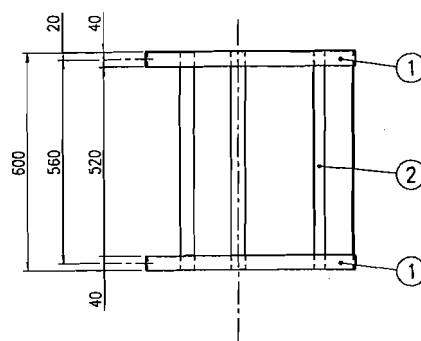
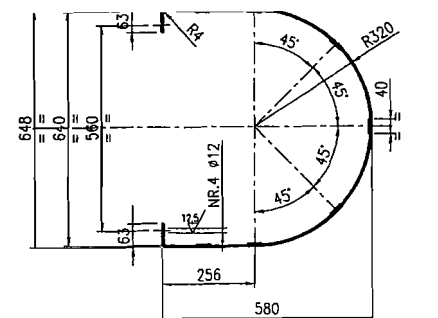
VIEW FROM B
TYPICAL



POS.	QTY	DESCRIPTION	COO.	MATERIAL	UNIT WEIGHT	OR	NOTES
2							
1							
0	06-08-02	FIRST ISSUE	Essex	DUCOMARO			RUBS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED		

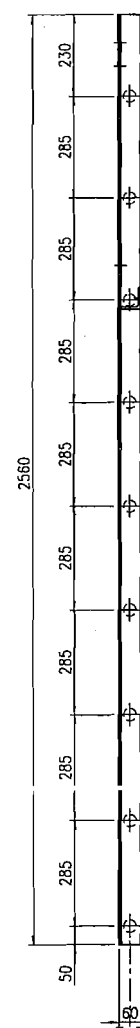
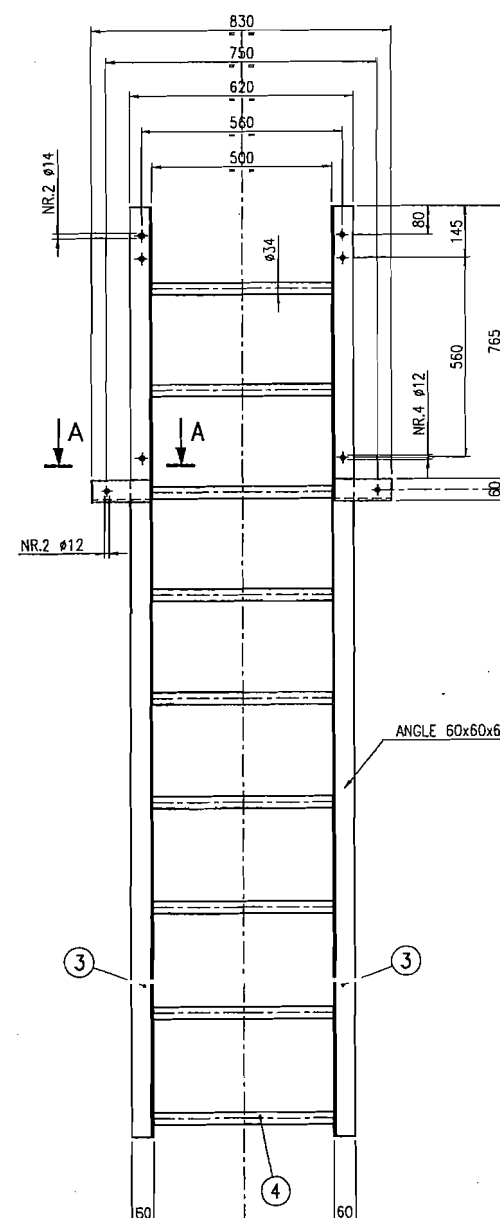
WELDING PROCEDURES : The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX	NO WELDS (UNE 1316) Welds shall be made in accordance with the following table: (Reference note) Weld preparation for welding in accordance to UNE 13001
FINISH PAINTING : ENAMEL YELLOW RAL 1007	YES FINISH PAINTING Structure shall meet EN 288-3, D.M. 09-01-96, or ASME sect. IX Structure shall meet EN 288-3, D.M. 09-01-96, or ASME sect. IX

ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING IN ANY POSITION THEREOF WITHOUT ORAL AUTHORIZATION	FILE: INTERMEDIATE WALKWAY DETAILS		VERICAL STRUCTURE	
	Scale: 1:10		Sheet: 1 of 1	
	Title: T05GCMDF037.0WG		Date: 10/1/00	
	Author: J. L. Smith		Check: J. L. Smith	

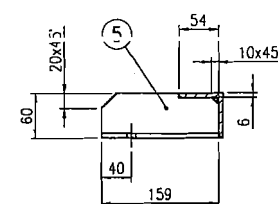


	RIGHT PIECE
	MARK F3803
	Nr. PIECES 2
	LEFT PIECE
MARK F3804	
Nr. PIECES 2	
UNIT WEIGHT 6 Kg	
TOTAL WEIGHT 24 Kg	

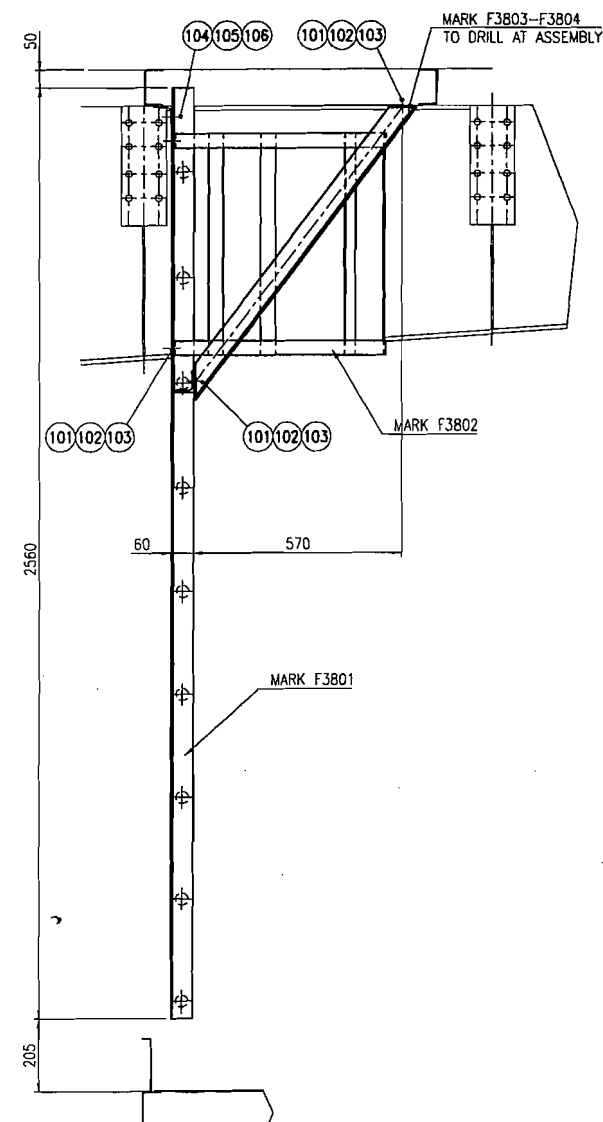
MARK F3802
Nr. PIECES 2
UNIT WEIGHT 8.9Kg
TOTAL WEIGHT 17.8Kg



SECTION A-A
scale 1:5



MARK F3801
NR PIECES 2
UNIT WEIGHT 37.5Kg
TOTAL WEIGHT 75Kg



LADDER ASSEMBLY
DETAIL

106	4	WASHER 13 UNI 6592					
105	4	NUT M12 UNI 5588			6S		
104	4	SCREW M12x30 UNI 5739			8.8		
103	16	WASHER 10.5 UNI 6592					
102	16	NUT M10 UNI 5588			6S		
101	16	SCREW M10x30 UNI 5739			8.8		
8	4	PLATE 60x6 L=80		Fe 360 B	0.2	0.8	
7	4	PLATE 60x6 L=100		Fe 360 B	0.3	1.2	
6	4	ANGLE 60x60x6 L=992 SHAPED		Fe 360 B	5.4	21.6	
5	4	ANGLE 60x60x6 L=159 SHAPED		Fe 360 B	0.8	3.2	
4	18	PIPE Ø34x2.3 L=500		Fe 360 B	0.9	16.2	
3	4	ANGLE 60x60x6 L=2560		Fe 360 B	13.9	55.6	
2	14	PLATE 40x4 L=600		Fe 360 B	0.7	9.8	
1	4	PLATE 40x4 L=1637 BENT		Fe 360 B	2	8	
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT	TOT. WEIGHT	NOTES
2							
1							
0	06-08-02	FIRST ISSUE	Essefre	CUCCHIARO			RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED		

DEAL

Sede e Stabilimento
L. 10100 - Frazione Pomerio
33050-Pomerio del Friuli (UD) - Italy
Tel.: +39 432 677 900
Fax: +39 432 677 902
e-mail: info@stet.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

REFERENCE:	STRADDLE CARRIER SC 720 - 32
------------	---------------------------------

OBJECT: VERTICAL STRUCTURE

TIME: INTERMEDIATE STAIR DETAILS

Substitutes for:	Scale	Sheet
	1:10	

File:	Formol	1
-------	--------	---

106DMCDB038.DWG	AT	
Job Nr.	Sub.JNr.	Nlr.

-	6	0	0	3	1	1	-	0	6	0	3	1	0	-	-
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Tab. Hr.	Dep.	Doc. Type	Part.
T 06	D M	C D	E 0

1	0	0	D	M	C	D	F	-	U	
---	---	---	---	---	---	---	---	---	---	--

KIEWIT / FCI / MANSON JV

SKYWAY BRIDGE PROJECT

TOTAL WEIGHT = 120 Kg

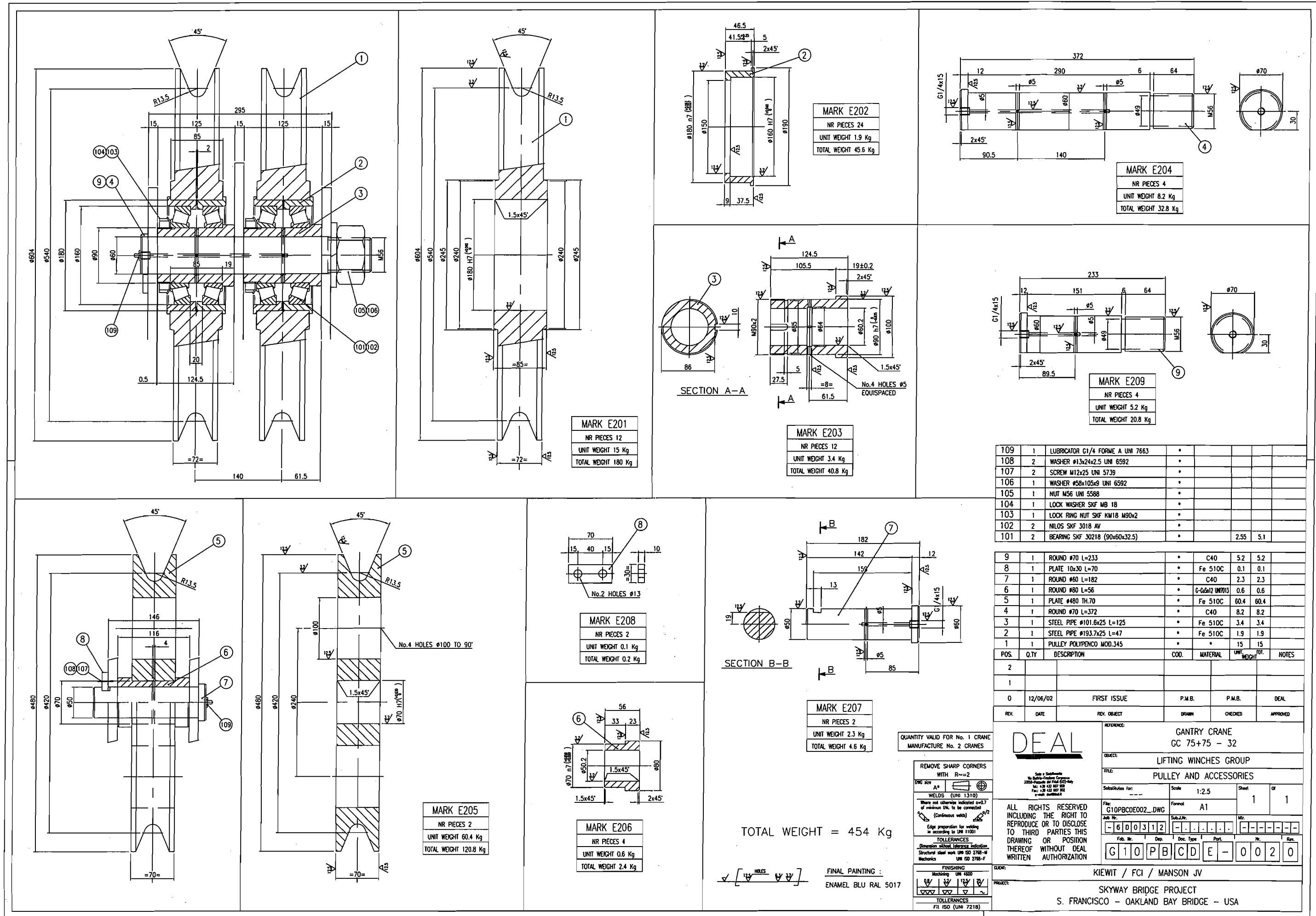
WELDING PROCEDURES :

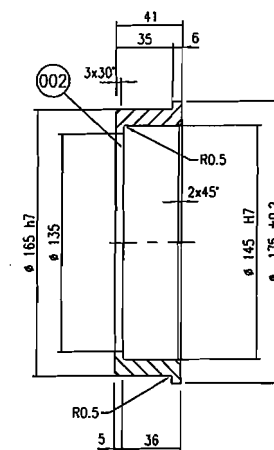
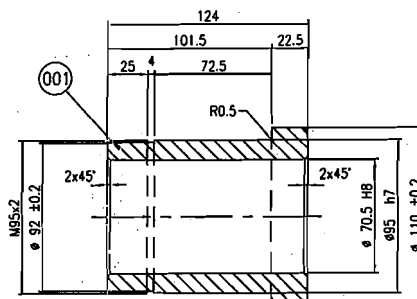
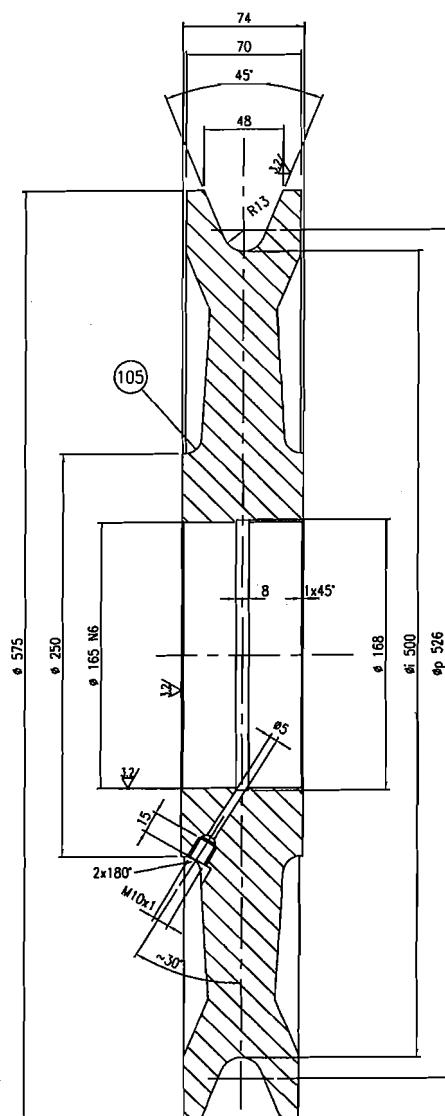
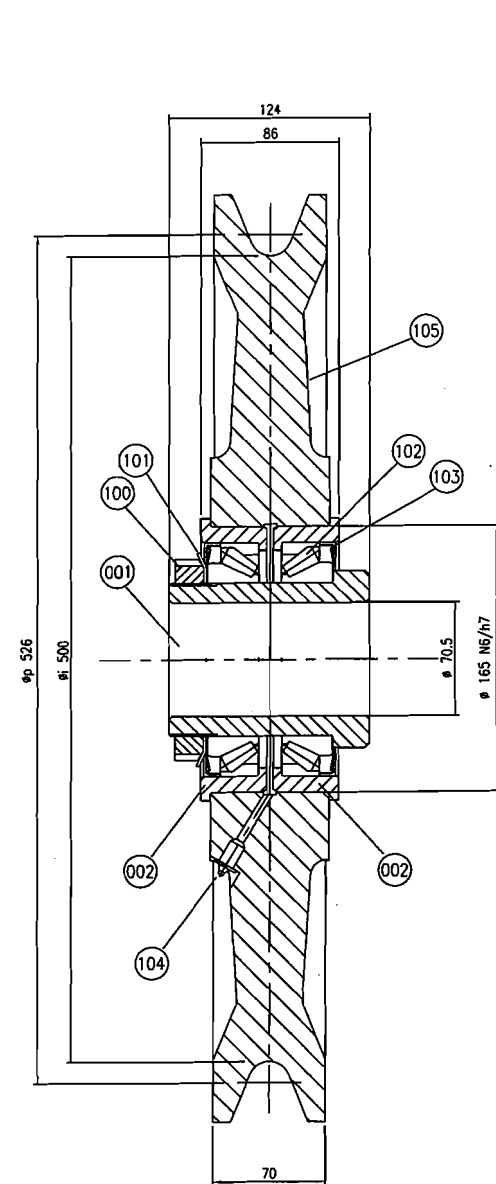
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

FINAL PAINTING :

ENAMEL BLUE RAL 5017

	DWG site	A1			
	WELDS (UNI 1310) Where not otherwise indicated $a=0$ of minimum thickness to be connected  (Continuous welds) 				
3, IX	Edge preparation for welding in according to UNI 11001 TOLERANCES Dimension without tolerance indicated Structural steel work UNI ISO 2768 Mechanics UNI ISO 2768-				
	FINISHING Machining UNI 4600				
					
	0.8	3.2	12.5	25	
	TOLERANCES EN ISO (UNI 7212)				





MARK E502
NR PIECES 80
UNIT WEIGHT 3.5 Kg
TOTAL WEIGHT 280 Kg

MARK E503
NR PIECES 160
UNIT WEIGHT 1.5 Kg
TOTAL WEIGHT 240 Kg

TOTAL WEIGHT 2100 Kg

MARK E501
NR PIECES 80
UNIT WEIGHT 15 Kg
TOTAL WEIGHT 1200 Kg

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

REMOVE SHARP CORNERS WITH R=2

WELDING	WELDING
WELDS (UNI 1310)	WELDS (UNI 1310)
Where not otherwise indicated 0.6/7 of minimum fillet to be connected (continuous welds)	Where not otherwise indicated 0.6/7 of minimum fillet to be connected (continuous welds)
Edge preparation for welding is according to UNI 11001	Edge preparation for welding is according to UNI 11001
TOLERANCES	TOLERANCES
Dimensional tolerances according to UNI 1000	Dimensional tolerances according to UNI 1000
Structural steel work UNI 60 2788-4	Structural steel work UNI 60 2788-4
UNI 60 2788-4	UNI 60 2788-4
FINISHING	FINISHING
Working UNI 4600	Working UNI 4600
CP27 172 172	CP27 172 172
TOLERANCES	TOLERANCES
FR ISO (UNI 7218)	FR ISO (UNI 7218)

105	80	PULLEY POLYPENCO TP. 428-2	15	1200	
104	160	GREASE NIPPLE M10x1			
103	160	NILOS FOR 32019X - TP. 32019 AV			
102	160	BEARING TP. 32019 X - 95x145x32	2	320	
101	80	TAB WASHER FOR RING NUT #95 TP. MB19	0.2	16	
100	80	RING NUT M05x2 TP. KM19	0.5	40	
2	160	ROUND # 175 L=41	Fe510C	1.5	240
1	80	ROUND #110 L=124	Fe510C	3.5	280
POS.	Q.TY	DESCRIPTION	COO.	MATERIAL	UNIT WEIGHT

2					
1					
0	16.05.02	FIRST ISSUE	CANDOTTI	CUCCHARO	REBS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL

STRADDLE CARRIER
SC 720 - 32

HOISTING WINCH

HOISTING PULLEY

Substitutes for: Scale Sheet 1 of 1

File: T06CACDE005.DWG Format: A1

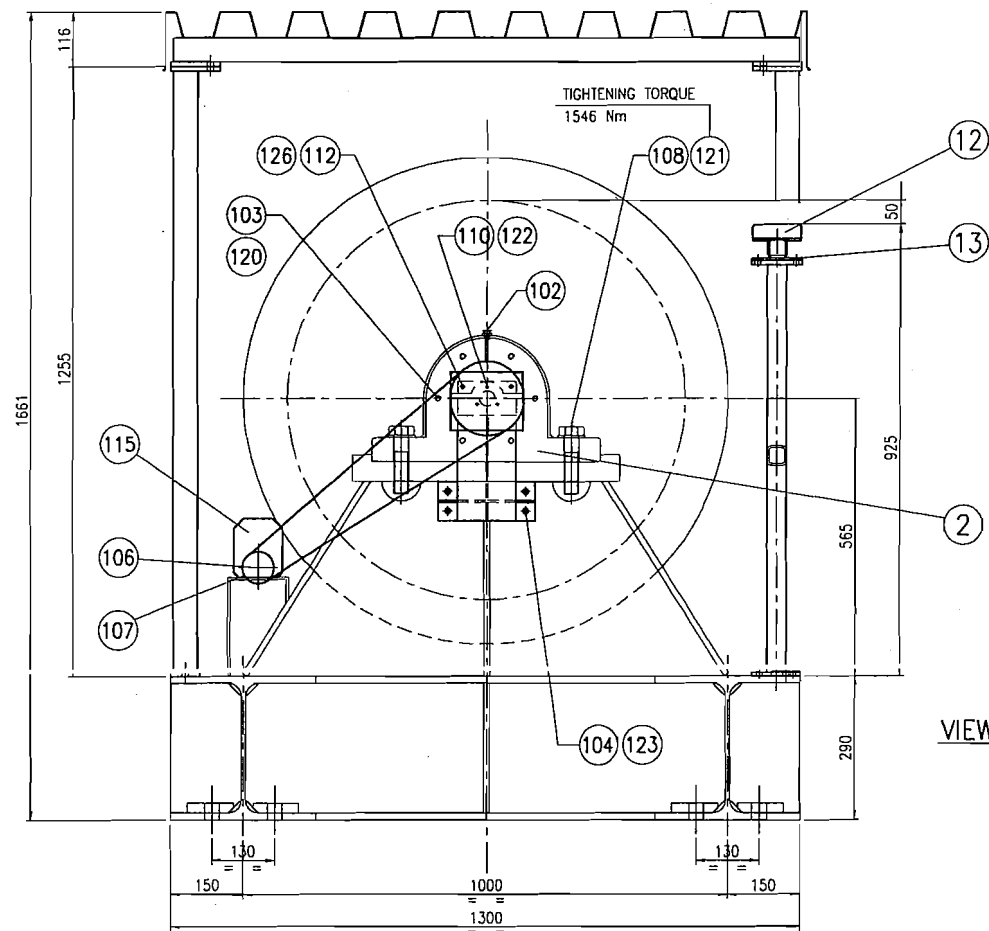
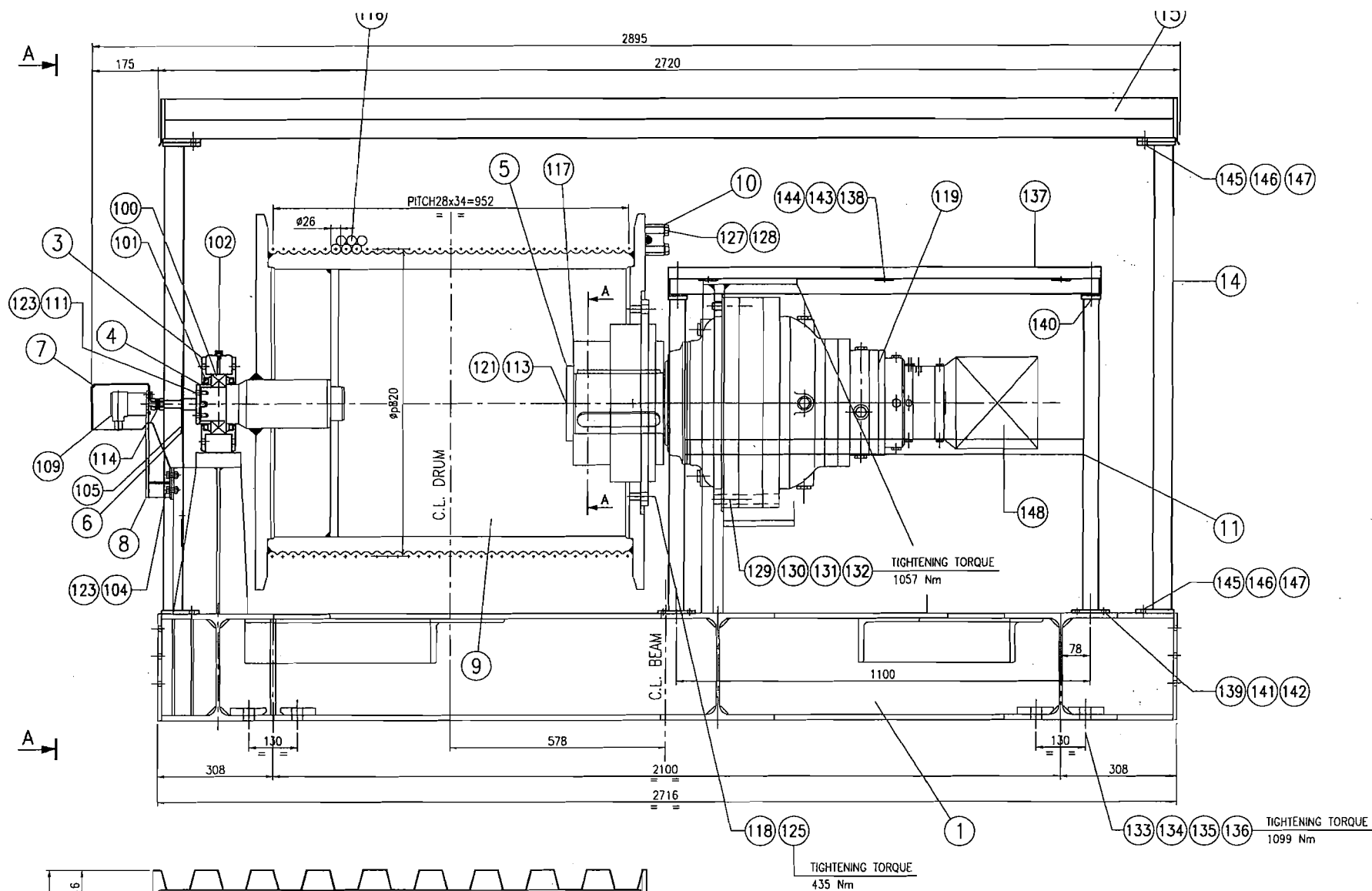
Job No. [600311] Sub.J.N. [060541] [---][---][---]

Rev. No. [06] CA CD E - 0050

ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL AUTHORIZATION

CLIENT: KIEWIT / FCI / MANSON JV

PROJECT: SKYWAY BRIDGE PROJECT
S. FRANCISCO - OAKLAND BAY BRIDGE - USA



VIEW FROM A

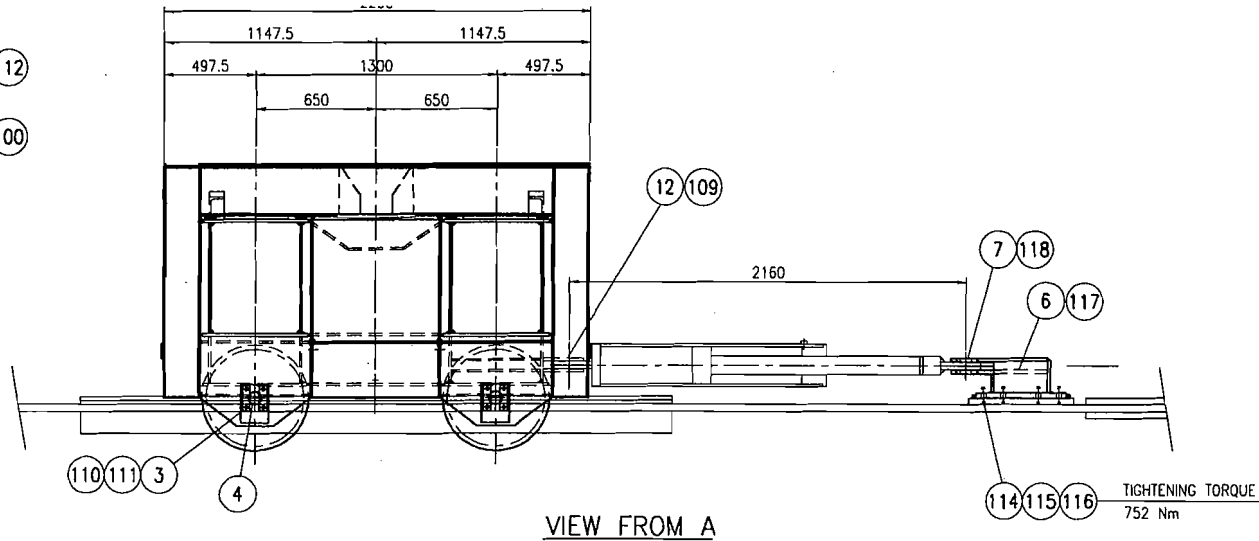
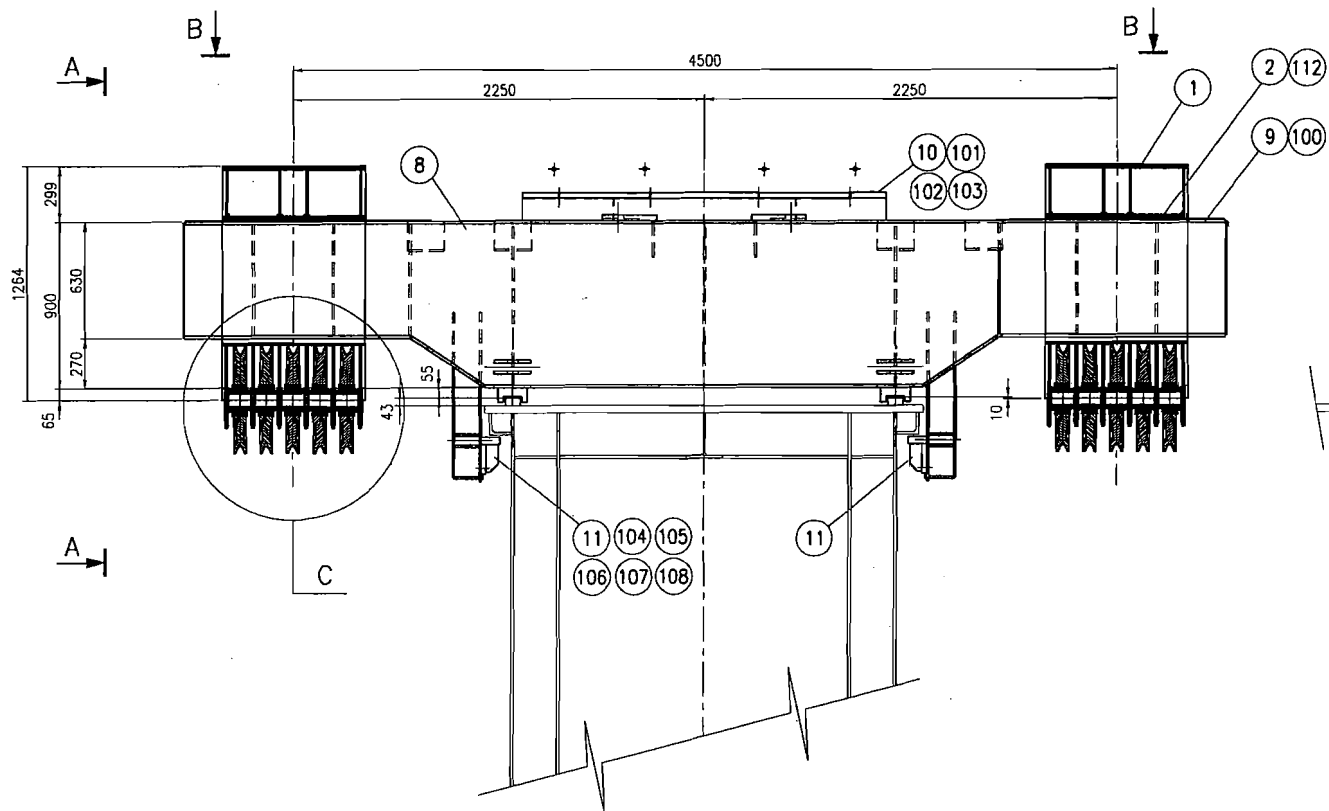
UNIT WEIGHT 4150 Kg
TOTAL WEIGHT 16600 Kg

TO BUILT NR. 4 PIECES

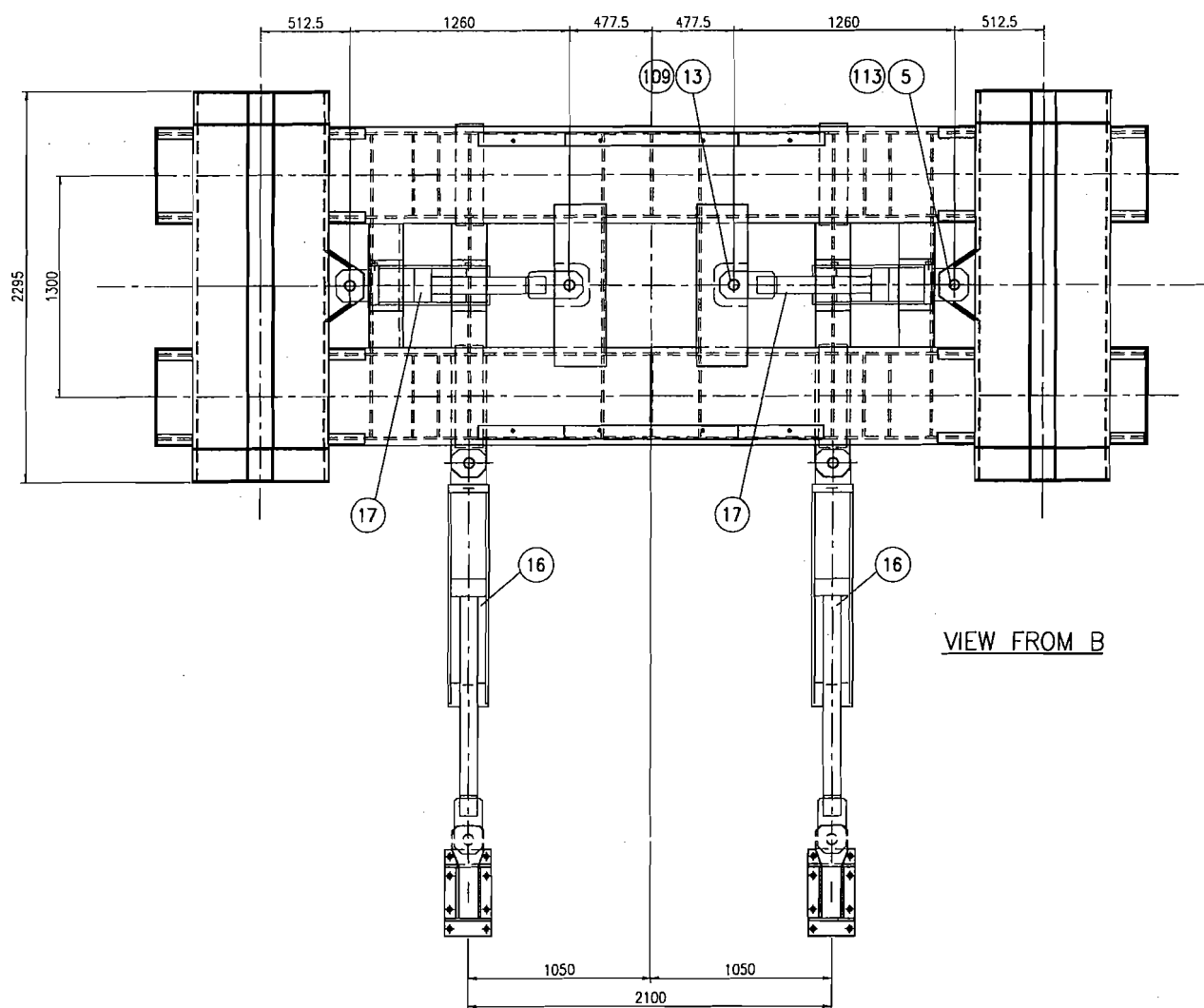
QTY	DESCRIPTION	UNIT	QTY	DESCRIPTION	UNIT
148	4 HYDR. MOTOR "REXROTH" TYPE A6VM107HD1D/63W-0500-VZB370B	50	200		
147	64 NUT M16 UNI 5588 CL.6S				
146	128 PLAN WASHER 17 UNI 5714				
145	64 SCREW M16x40 CL.8.8 UNI 5739				
144	12 NUT M8 UNI 5588 CL.6S				
143	12 PLAN WASHER #0.4 UNI 5714				
142	24 NUT M10 UNI 5588 CL.6S				
141	24 PLAN WASHER #10.5 UNI 5714				
140	16 SCREW M10x60 UNI 5739 CL.8.8				
139	8 SCREW M10x40 UNI 5739 CL.8.8				
138	12 SCREW M8x30 UNI 5931 CL.8.8				
137	2 NYLON BAR 100x30 L=1150	4	8		
136	8 SQUARE 20x20 L=230				
135	128 WASHER #28 UNI 5714				
134	64 NUT M27 CL.6S UNI 5588				
133	64 SCREW M27x120 UNI 5937 CL.8.8				

132	12	PINS Ø20 m6 x 40				
131	144	WASHER Ø25 UNI 5714				
130	72	NUT M24 CL.6S UNI 5588				
129	72	SCREW M24x220 UNI 5931 CL.10.9				
128	32	WASHER Ø17 UNI 5714				
127	32	SCREW M16x75 UNI 5739 8.8				
126	8	PLAN WASHER Ø8.5 UNI 5714				
125	24	PLAN WASHER Ø21 UNI 5714				
124	8	PLAN WASHER Ø13 UNI 5714				
123	32	PLAN WASHER Ø10.5 UNI 5714				
122	12	PLAN WASHER Ø5.3 UNI 5714				
121	12	PLAN WASHER Ø31 UNI 5714				
120	48	PLAN WASHER Ø13 UNI 5714				
119	4	REDUCTION GEAR "BREVINI" + BRAKE TY.ET3605/MN1/154/FL750/00		415	1660	
118	24	SCREW M20x70 UNI 5739 CL.8.8				
117	4	JOINT FOR DRUM TY. MAINA GTS 42		223	892	
116	2	ROPE Ø 26 L = 550 m		1672	3344	
115	4	CHAIN 8x3 ISO 05-B1 L=1500 mm		0.25	1	
114	4	FLEXIBLE COUPLING AMKN 30-L34 "RODOFLEX"				
113	4	SCREW M30x100 UNI 5739 CL.8.8				
112	8	SCREW M8x30 UNI 5739 CL.8.8				
111	16	SCREW M10x30 UNI 5739 CL.8.8				
110	12	SCREW M5x40 UNI 5931 CL.8.8				
109	4	ENCODER "AROE"		0.5	2	
108	8	SCREW M30x120 UNI 5739 CL.8.8				
107	4	PINION GEAR Z=25 FOR CHAIN 8x3 ISO 05-B1		0.25	1	
106	4	LIMIT SWITCH "RAVASI" i=150		0.5	2	
105	4	CROWN GEAR Z=50 FOR CHAIN 8x3 ISO 05-B1		0.25	1	
104	16	SCREW M10x40 UNI 5931 CL.8.8				
103	48	SCREW M12x40 UNI 5739 CL.8.8				
102	4	GREASE NIPPLE M10x1				
101	8	RETAINING RING 140x12x105				
100	4	ROLLER BEARING TP. 22218 E		3.5	14	
15	4	WINCH COVERING	E1603	72	288	
14	16	WINCH COVERING SUPPORT LEG	E1601/E1602	8	128	
13	2	NYLON BAR SUPPORT	E403	4.7	9.4	
12	2	NYLON BAR	E402	4	8	
11	2	ROPE GUIDE SUPPORT	E401	13.5	27	
10	8	ROPE STOP PLATE	E103	0.5	4	
9	4	DRUM	E101/E102	1250	5000	
8	4	ENCODER SUPPORT	E207	1.25	5	
7	4	GUARD	E206	1.25	5	
6	4	ENCODER SHAFT	E205	0.25	1	
5	4	WASHER	E204	5	20	
4	4	SPACER	E203	0.25	1	
3	8	FLANGE	E202	1	8	
2	4	BEARING SUPPORT	E201	28	112	
1	4	WINCH FRAME	E301	1202	4808	
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	NOTES

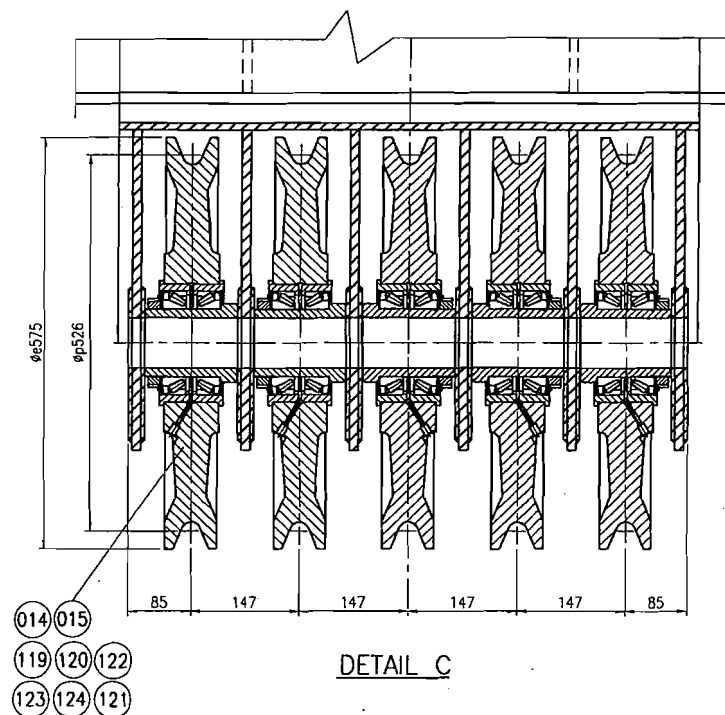
2					
1					
0	30.05.02	FIRST ISSUE	CANDOTTI	CUCCHARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
REFERENCE: STRADDLE CARRIER SC 720 - 32					
OBJECT: HOISTING WINCH					
TITLE: SUB ASSEMBLY - DRUM AND FRAME					
Substitutes for: ---		Scale: 1:7.5	Sheet: 1	Of: 1	
File: TO6CADE002.DWG		Format: A1			
Job No.: -600311		Sub.J.Nr.: -060500	Mr.: - - - - -		
Fob. Nr.: T06		Dep.: C	Doc. Type: A	Part: D	Nr.: 0020
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION					
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT					



VIEW FROM A



VIEW FROM B



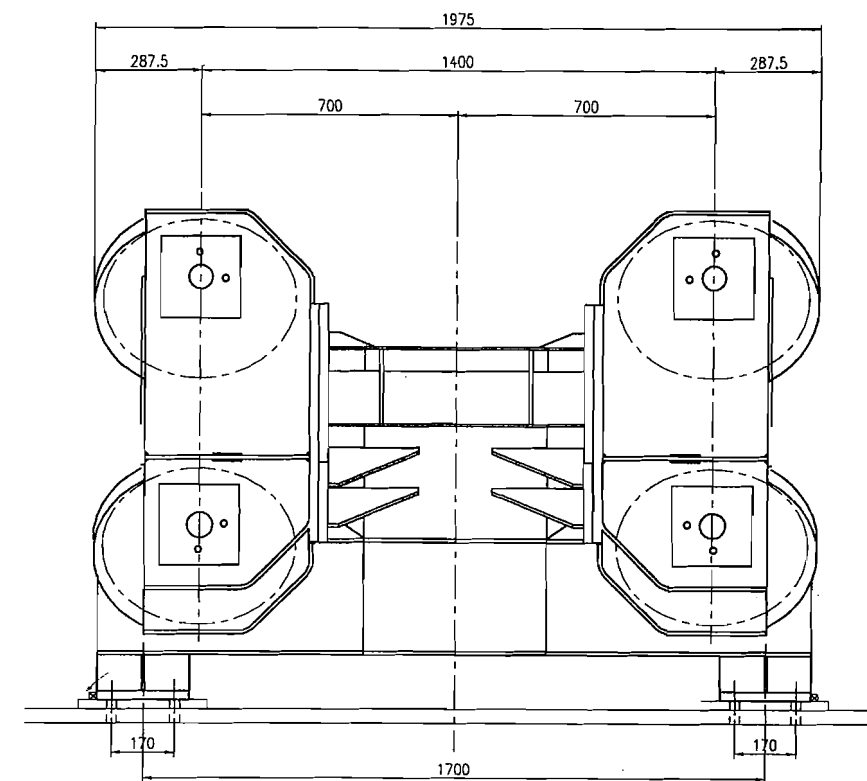
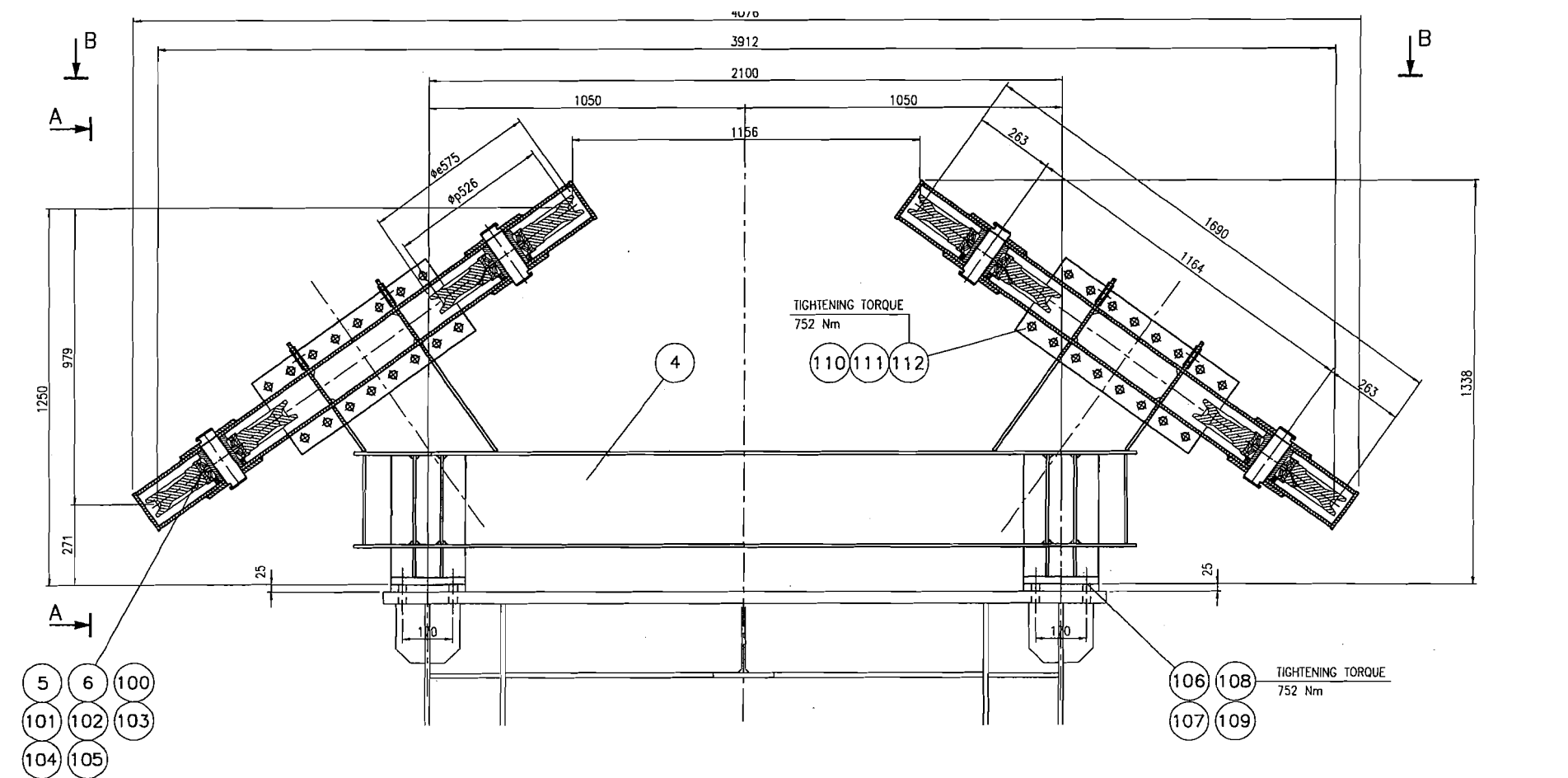
DETAIL C

UNIT WEIGHT 9875 Kg
TOTAL WEIGHT 19750 Kg
TO BUILT NR. 2 PIECES

QTY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES
124	40 PULLEY POLYPCO TP. 428-2	E501		15	600	
123	80 GRASS RIFLE M10A1					
122	80 NIOS FOR 32019X - TP. 32019 AV					
121	80 BEARING TP. 32019 X - 95x145x32			2	160	
120	40 TAB WASHER FOR RING NUT #95 TP. M819			0.2	8	
119	40 RING NUT M95x2 TP. KM19			0.5	20	
118	4 SPLIT PIN #10x100 UNI 1336					
117	8 SQUARE 20x20x270					
116	32 NUT M24 6S UNI 5588					
115	64 PLAN WASHER 25 UNI 5714					
114	32 SCREW M24x120 CL.8.8 UNI 5739					
113	4 SPLIT PIN #10x100 UNI 1336					

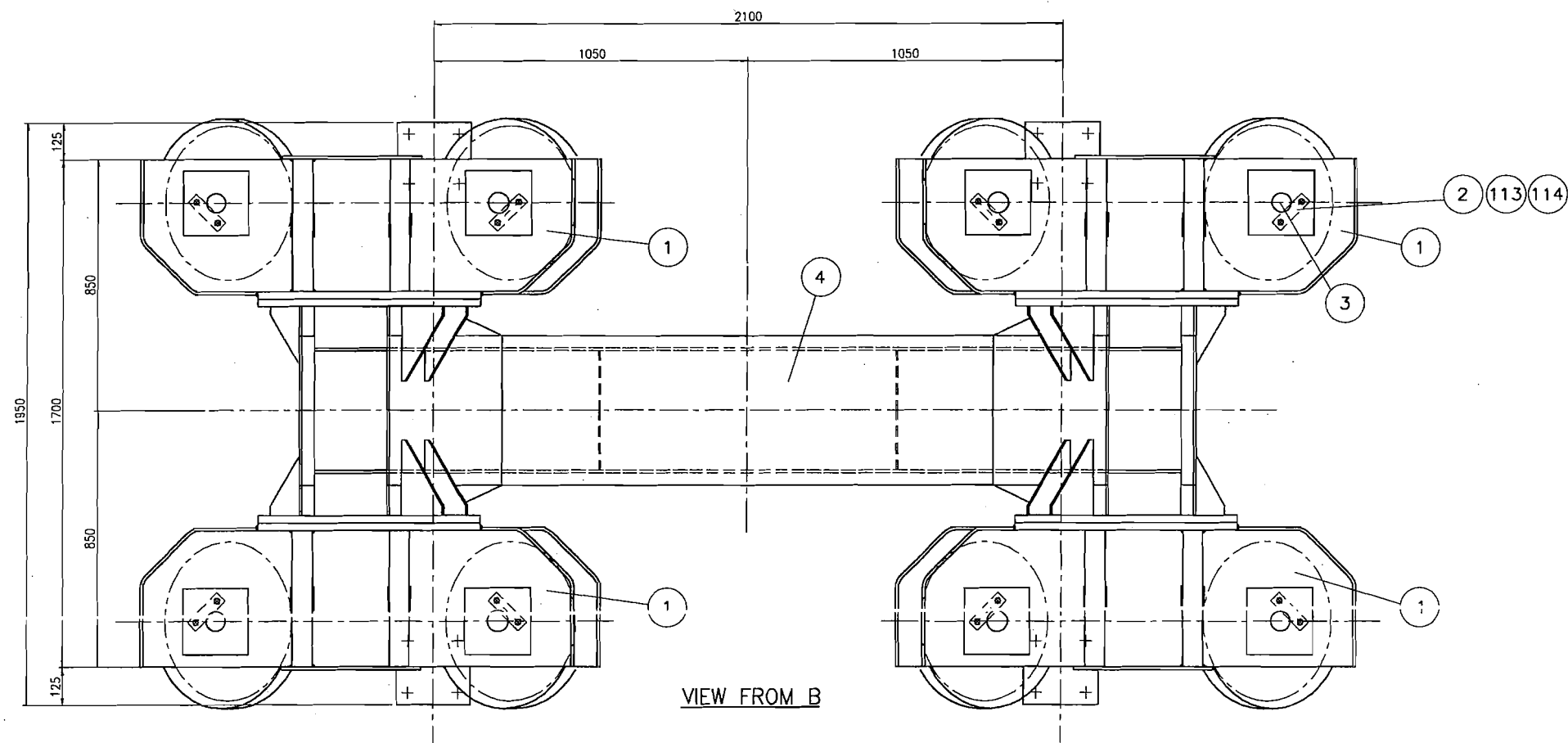
112	64	SCREW 5x25 CL.8.8 UNI 5933					
111	128	PLAN WASHER 17 UNI 5714					
110	64	SCREW M16x30 CL.8.8 UNI 5739					
109	8	SPLIT PIN #10x100 UNI 1336					
108	16	NUT M20 CL.6S UNI 5588					
107	32	WASHER #21 UNI 5714					
106	16	SCREW M20x80 CL.8.8 UNI 5737					
105	40	WASHER #28 UNI 5714					
104	40	SCREW M27x200 CL.8.8 UNI 5737					
103	16	WASHER #8.5 UNI 5714					
102	16	NUT M8 CL.6S UNI 5588					
101	16	SCREW M8x50 UNI 5931					
100	24	SCREW 5x25 CL.8.8 UNI 5933					
17	4	HYDRAULIC JACK #200/#100 STROKE ±200	T06DUANE-002		185	740	
16	4	HYDRAULIC JACK #200/#100 STROKE ±500	T06DUANE-001		270	1080	
15	80	BUSH #165/145	E503		1.5	120	
14	40	BUSH #95/70	E502		3.5	140	
13	4	PIN	E1206		3.6	14.4	
12	4	PIN	E1205		3.6	14.4	
11	8	ANTI ROLLOVER	E1204		41	336	
10	4	NYLON PLATE	E1203		15	60	
9	8	FERROZEL PLATE	E1202		3.5	28	
8	2	BEAM	E1201		5235	10470	
7	4	PINS	E1502		4	16	
6	4	JACK HANGER	E1501		83	332	
5	4	PIN	E1105		3.6	14.4	
4	8	AXLE	E1104		24.5	196	
3	32	STOP PLATE	E1103		0.5	16	
2	16	FERROZEL PLATE	E1102		2	32	
1	4	HOISTING PULLEY SUPPORT	E1101		1338	5352	
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES

2					
1					
0	30.05.02	FIRST ISSUE	CANDOTTI	CUCCHIARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
DEAL Sole e Rafforzata 100% Responsabilità del Fidejussore Tel. +39 03 907 900 Fax +39 03 907 902 e-mail: deal@deal.it					
REFERENCE: STRADDLE CARRIER SC 720 - 32			OBJECT: HOISTING WINCH		
TITLE: SUB ASSEMBLY HOISTING BEAM			Scale: 1:20 1:5		
Substitutes for: ---			Sheet 1 of 1		
File: T06CAADE003.DWG			Format: A1		
Job No. [6][0][0][3][1][1]			Sub.J.Nr. [0][6][0][5][0][0]		
Fab. Nr. [T][0][6][C][A][D][E]			Dep. [0][0][3][0]		
Doc. Type [0]			Part. [0]		
Nr. [0]			Rev. [0]		
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT					



VIEW FROM A

UNIT WEIGHT 2440 Kg



VIEW FROM B

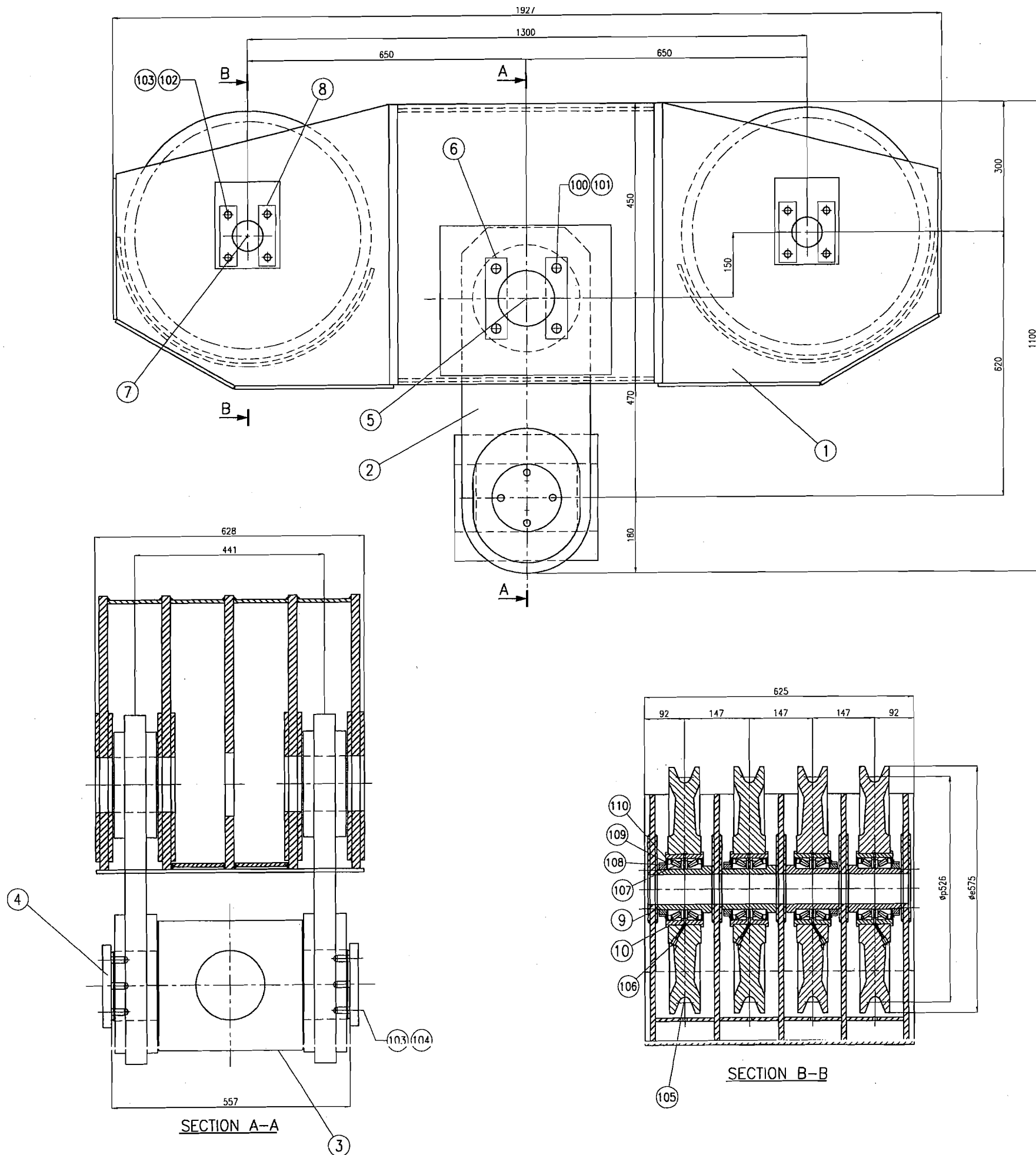
POS.	QTY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES
114	64	PLAN WASHER 17 UNI 5714					
113	32	SCREW M16x30 UNI 5739 CL.8.8					
112	64	NUT M24 6S UNI 5588					
111	128	PLAN WASHER 25 UNI 5714					
110	64	SCREW M24x100 UNI 5739 CL.8.8					
109	4	PLATE 20x20x250					
108	16	NUT M24 6S UNI 5588					
107	16	PLAN WASHER 25 UNI 5714					
106	16	SCREW M24x140 CL.8.8					
105	8	PULLEY POLYPCO TP. 428-2	E501		15	120	
104	16	GREASE NIPPLE M10x1					
103	16	NILOS FOR 32019X - TP. 32019 AV					
102	16	BEARING TP. 32019 X - 95x145x32			2	32	
101	8	TAB WASHER FOR RING NUT #95 TP. MB19			0.2	1.6	
100	8	RING NUT M95x2 TP. KM19			0.5	4	
6	16	BUSH #165/145	E503		1.5	24	
5	8	BUSH #95/70	E502		3.5	28	
4	1	CENTRAL PULLEY SUPPORT	E1001		1215	1215	
3	8	PULLEY AXLE	E903		5.4	43.2	
2	16	STOP PLATE	E902		0.4	6.4	
1	4	PULLEY SUPPORT	E901		239	956	

REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
2					
1					
0	30.05.02	FIRST ISSUE	CANDOTTI	CUCCHIARO	RIBIS

DEAL Sole e Stabilimento per la produzione e la gestione 13000-Fabbrica del Fido S.p.A. Tel. +39 03 807 300 Fax +39 03 807 302 e-mail: deal@deal.it	REFERENCE: STRADDLE CARRIER SC 720 - 32	
	OBJECT: HOISTING WINCH	
	TITLE: SUD ASSEMBLY - CENTRAL PULLEY SUPPORT	
	Substitutes for: ---	Scale: 1:10
File: T06CADE004.DWG	Format: A1	
Job Nr: [6][0][0][3][1][1]	Sub.J.Nr: [0][6][0][5][0][0]	Mir: [---][---][---][---]
Dep. Nr: [T][0][6]	Doc. Type: [C][A][D][E]	Part: [0][0][4][0]

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

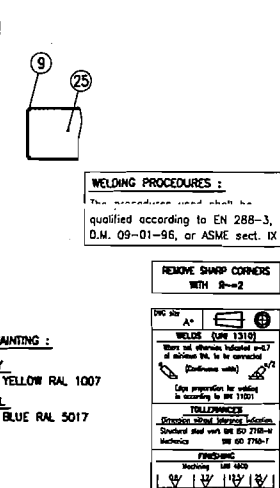
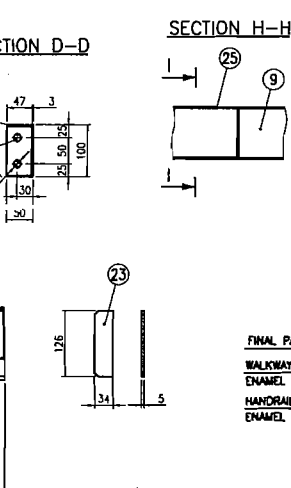
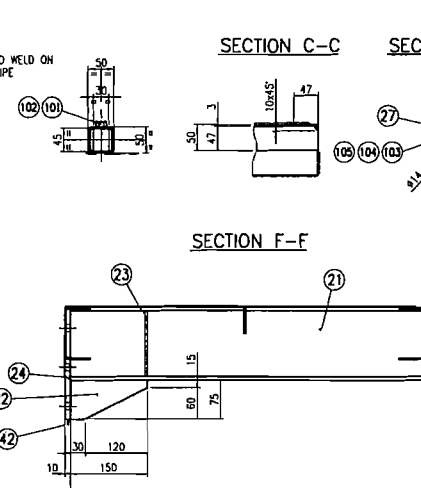
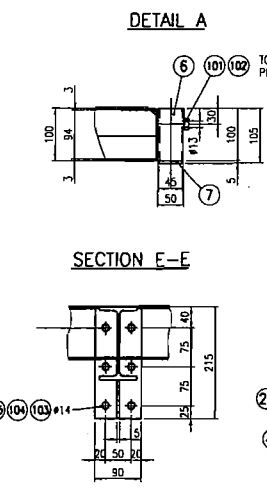
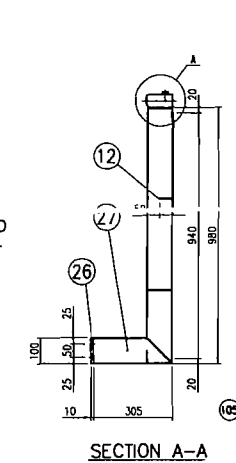
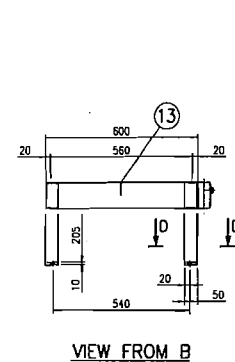
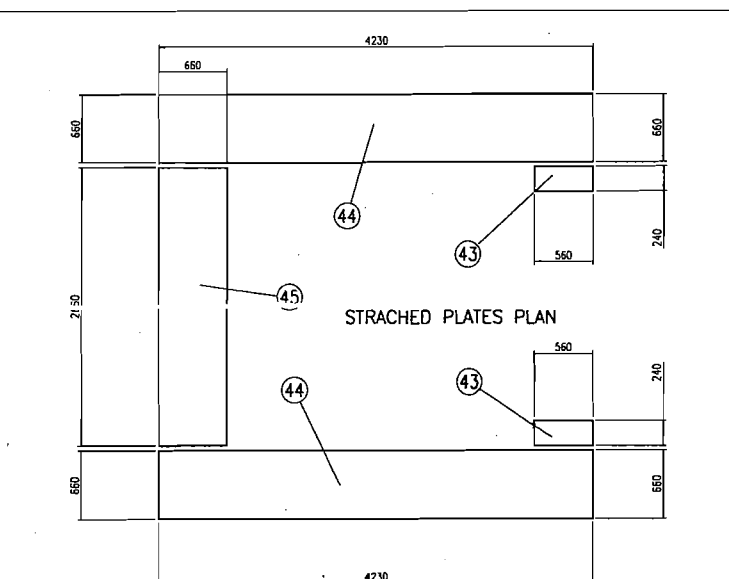
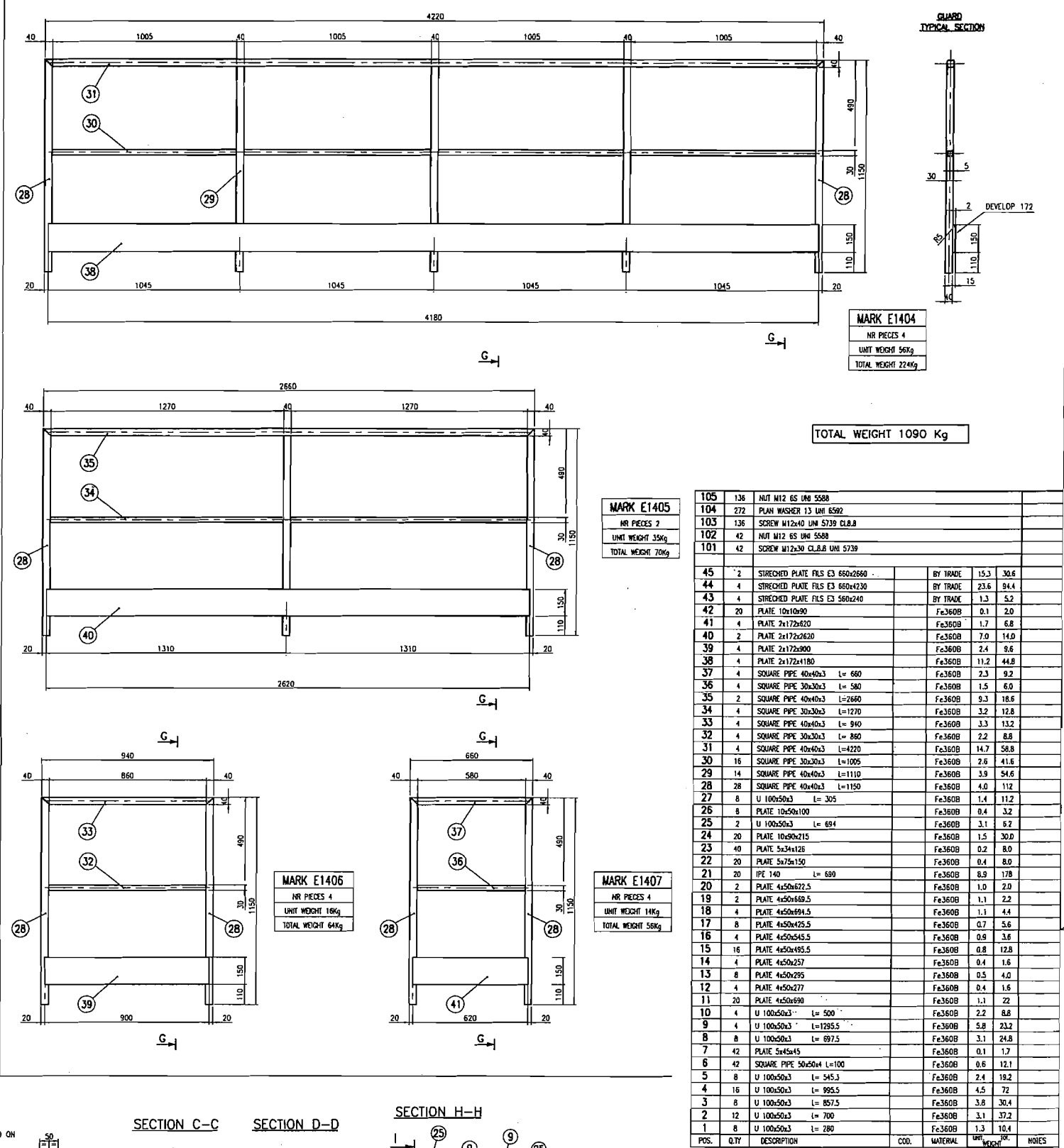
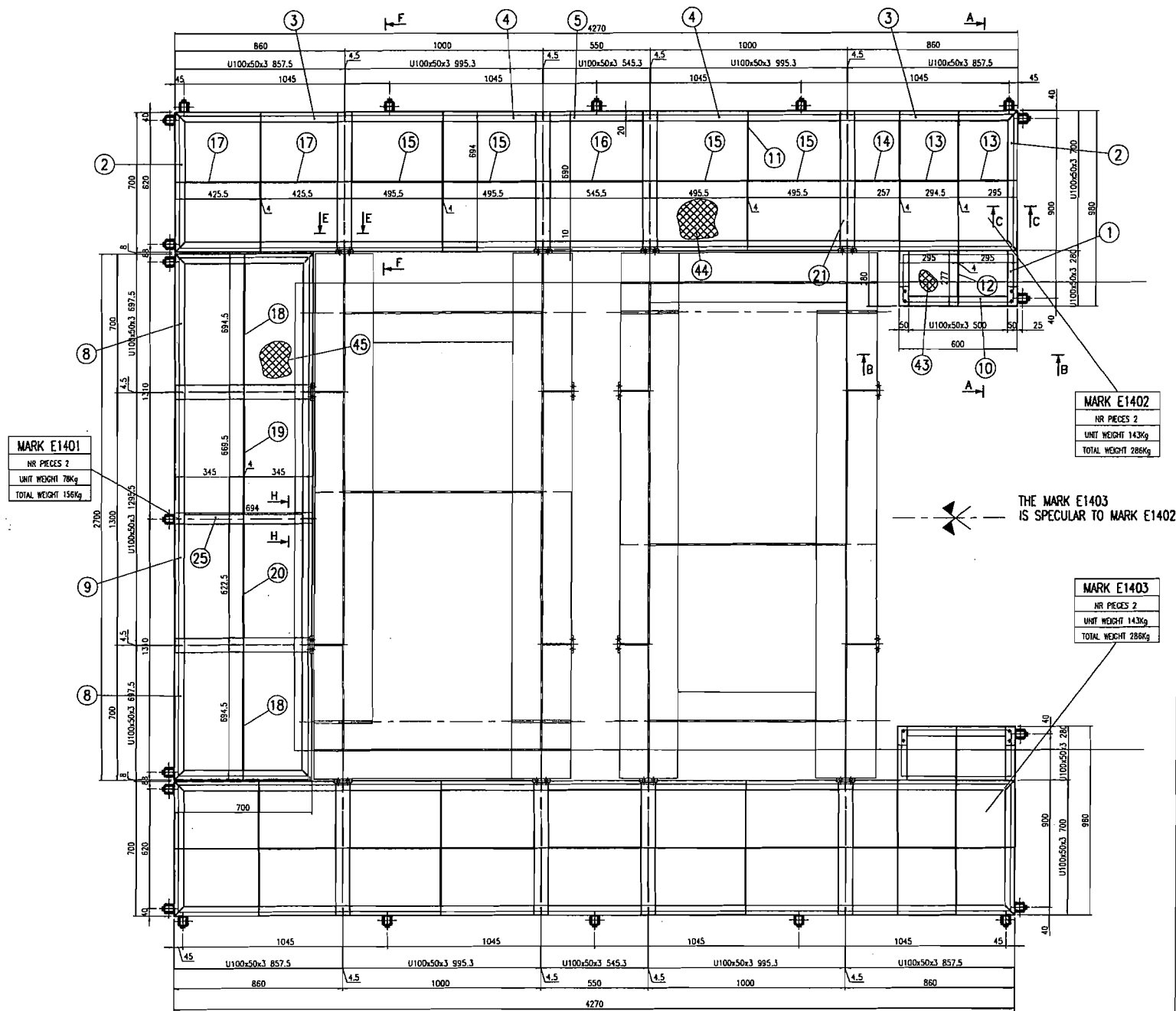
CLIENT: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT



UNIT WEIGHT 1940 Kg
TOTAL WEIGHT 7760 Kg
TO BUILT NR.4 PIECES

POS.	QTY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES
110	64	NILOS FOR 32019X - TP. 32019 AV					
109	32	TAB WASHER FOR RING NUT #95 TP. MB19			0.2	6.4	
108	32	RING NUT M95x2 TP. KM19			0.5	16	
107	64	BEARING TP. 32019 X - 95x145x32			2	128	
106	64	GREASE NIPPLE M10x1					
105	32	PULLEY POLYPENCO TP. 428-2	E501		15	480	
104	32	SCREW M16x50 CL.8.8 UNI 5739					
103	96	PLAN WASHER 17 UNI 5714					
102	64	SCREW M16x35 CL.8.8 UNI 5739					
101	32	PLAN WASHER 21 UNI 5714					
100	32	SCREW M20x50 CL.8.8 UNI 5739					
10	64	BUSH #165/145	E503		1.5	96	
9	32	BUSH #95/70	E502		3.5	112	
8	32	STOP PLATE AXLE	E1308		0.4	12.8	
7	8	PULLEY AXLE3	E1307		19.8	158.4	
6	16	AXLE STOP PLATE	E1306		1.1	17.6	
5	4	CONNECTION HOOK AXLE	E1305		72	288	
4	8	STOP PLATE FOR JOINT	E1304		4.5	36	
3	4	ARTICULATED JOINT	E1303		240	960	
2	8	CONNECTION HOOK	E1302		107	856	
1	4	ROPE BLOCK STRUCTURE	E1301		1147	4588	

2					
1					
0	30.05.02	FIRST ISSUE	CANDOTTI	CUCCHIARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
REFERENCE:			STRADDLE CARRIER SC 720 - 32		
OBJECT:			HOISTING WINCH		
TITLE:			SUB ASSEMBLY - MOBILE HOOK BLOCK		
Substitutes for:			Scale	1:5	Sheet 1 of 1
File:			Format	A1	
Job Nr.			Sub.J.Nr.		
- 6 0 0 3 1 1			- 0 6 0 5 0 0	- - - - -	- - - - -
Fab. Nr.			Dep.	Doc. Type	Part.
T 0 6 C A A D E -			0 0 5 0		
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION					
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT					



REV.	DATE	REV. REASON	DRAWN	CHECKED	APPROVED
0	22.05.02	FIRST ISSUE	CANDOTTI	CUCCHARD	REBS

DEAL

STRADDLE CARRIER
SC 720 - 32

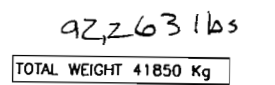
HOISTING WINCH

WALKWAYS

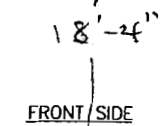
SCALE: 1:1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

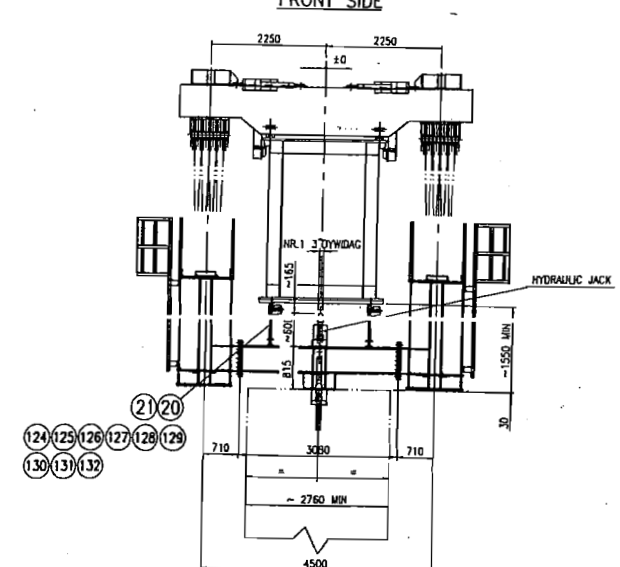
KEY: KIEWIT / FCI / MANSON JV



1.0.9 = 1264 A/10
8.8 = 811 A/10

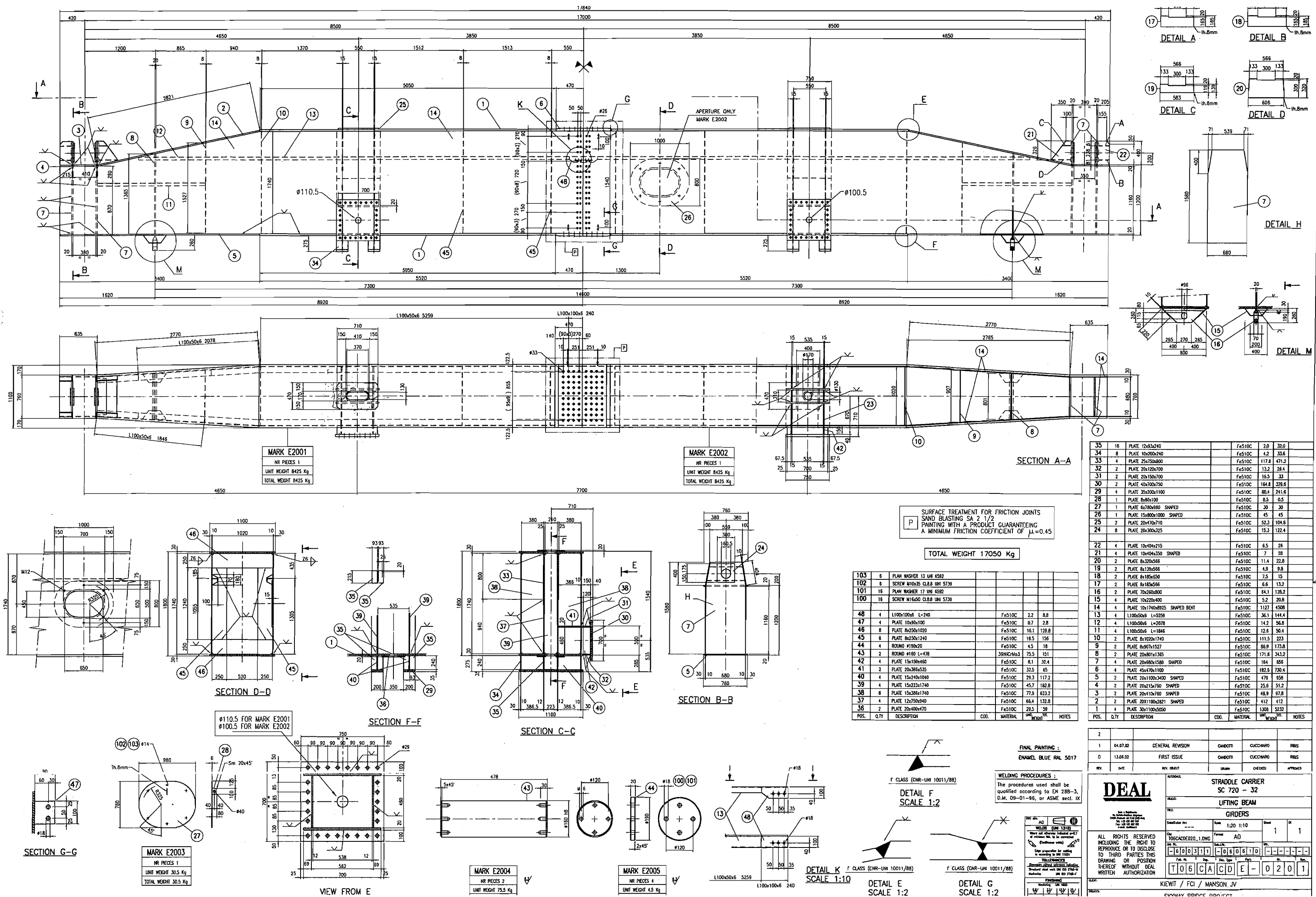


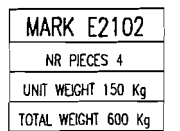
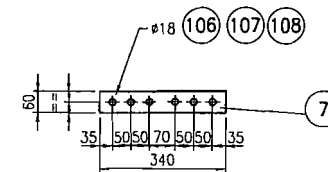
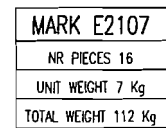
HOISTING SECTION (SPECIAL)
FRONT SIDE



28	1	GRIDDER	E2702		8425	8425		
27	1	GRIDDER	E2701 ¹		8425	8425		
26	4	LIMIT SWITCH HOSTING PLATE	E2605		4.4	17.8		
25	4	LIMIT SWITCH FIXING STRUCTURE TUBE	E2604		2.4	9.5		
24	4	LIMIT SWITCH FIXING ANGLE BAR	E2603		3.0	12		
23	4	LIMIT SWITCH BALANCE WEIGHT	E2602		0.9	3.6		
22	4	LIMIT SWITCH SUPPORT STRUCTURE	E2601		9.5	38		
21	4	LIMIT SWITCH BALANCE WEIGHT	E2502		3	12.0		
20	4	LIMIT SWITCH SUPPORT STRUCTURE	E2501		6.5	26.0		
19	16	GRIDERS JOINT PLATE	E2107		6.9	111.5		
18	8	GRIDERS JOINT PLATE	E2106		15.5	123.8		
17	8	GRIDERS JOINT PLATE	E2105		0.8	6.4		
16	4	GRIDERS JOINT PLATE	E2104		1.1	4.3		
15	4	GRIDERS JOINT PLATE	E2103		1.3	5.4		
14	4	GRIDERS JOINT PLATE	E2102		150	900		
13	4	GRIDERS JOINT PLATE	E2101		168.4	673.5		
12	1	STRANGER	E2201		2100	2100		
11	1	STRINGER	E2301		2740	2740		
10	4	HANDRAIL	E2404		15.8	55.6		
9	40	HANDRAIL SUPPORT	E2405		1.1	44		
8	4	HANDRAIL	E2402		35.8	143.2		
7	4	HANDRAIL	E2403		41.9	167.6		
6	4	GRIDDER RUNG LADDER	E2401		407.2	814.4		
5	8	GRIDDER AXLE STOP PLATE	E2005		4.5	36		
4	4	GRIDDER AXLE	E2004		75.4	301.6		
3	2	OPENING COVER	E2003		36.5	73		
2	1	GRIDDER	E2002		8425	8425		
1	1	GRIDDER	E2001		8425	8425		
POS.	QTY	DESCRIPTION	UNIT	CYCL	MATERIAL	USE	NOTE	

[illegible]





TOTAL WEIGHT	1530 Kg
--------------	---------

108	48	NUT M16 BG UNI 5713				
107	96	PLAN WASHER 17 UNI 5714				
106	48	SCREW M16x45 CL.10.9 UNI 5712				
105	272	NUT M24 BG UNI 5713				
104	544	PLAN WASHER 25 UNI 5714				
103	272	SCREW M24x65 CL.10.9 UNI 5712				
102	320	NUT M30 BG UNI 5713				
101	640	PLAN WASHER 31 UNI 5714				
100	320	SCREW M30x140 CL.10.9 UNI 5712				
7	8	PLATE 5x60x340		Fe510C	0.8	6.4
6	4	PLATE 5x80x340		Fe510C	1.1	4.4
5	4	PLATE 5x100x340		Fe510C	1.3	5.2
4	8	PLATE 8x300x820		Fe510C	15.5	124
3	16	PLATE 8x300x370		Fe510C	7	112
2	4	PLATE 25x780x980		Fe510C	150	600
1	4	PLATE 25x780x1100		Fe510C	168.5	674
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNI.	WEIGHT
					UNI.	NOTES

2					
1					
0	13.06.02	FIRST ISSUE	CANDOTTI	CUCCHIARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

STRADDLE CARRIER
SC 720 - 32

LIFTING BEAM

JUNCTION PLATES

Subst/Reviz for: ---		Scale 1:10		Sheet 1		Of 1	
File: TOBCACDE021.DWG		Format A1					
Job Nr. - 6 0 0 3 1 1		Subst./Nr. - 0 6 0 6 1 0		Wtr. - - - - -			
Feb. Nr. T 0 6		Dep. CA		Doc. Type CD		Part. E -	
				Nr. 0 2 1		Rev. 0	

KIEWIT / FCI / MANSON JV
SKYWAY BRIDGE PROJECT

FINAL PAINTING :
ENAMEL BLUE RAL 5017

P SURFACE TREATMENT FOR FRICTION JOINTS
SAND BLASTING SA 2 1/2
PAINTING WITH A PRODUCT GUARANTEEING
A MINIMUM FRICTION COEFFICIENT OF $\mu=0.45$

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

REMOVE SHARP CORNERS
WITH $R \sim 2$

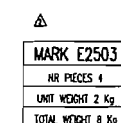
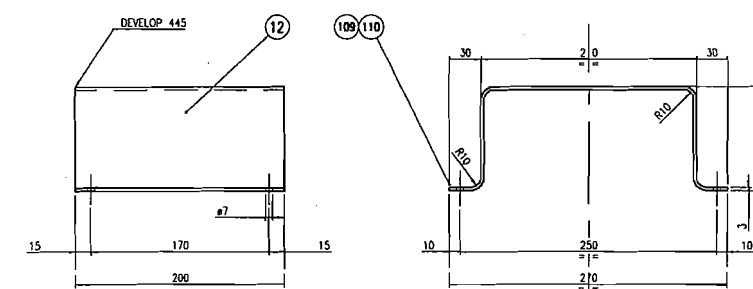
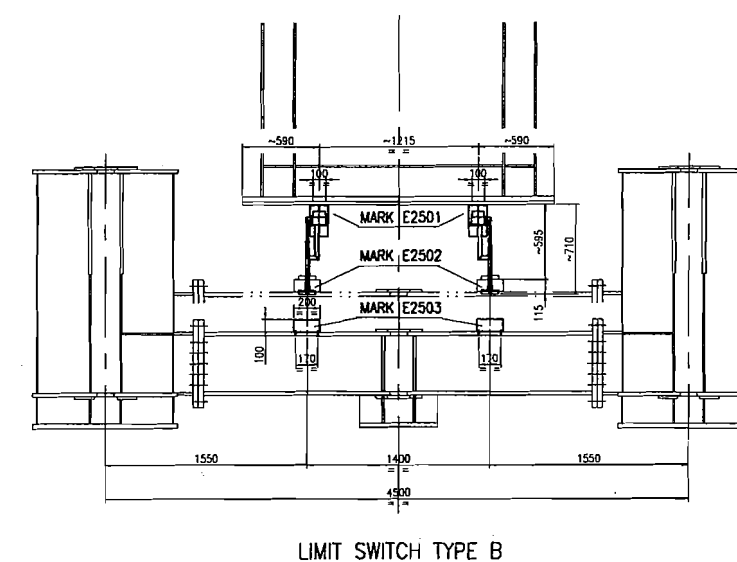
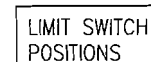
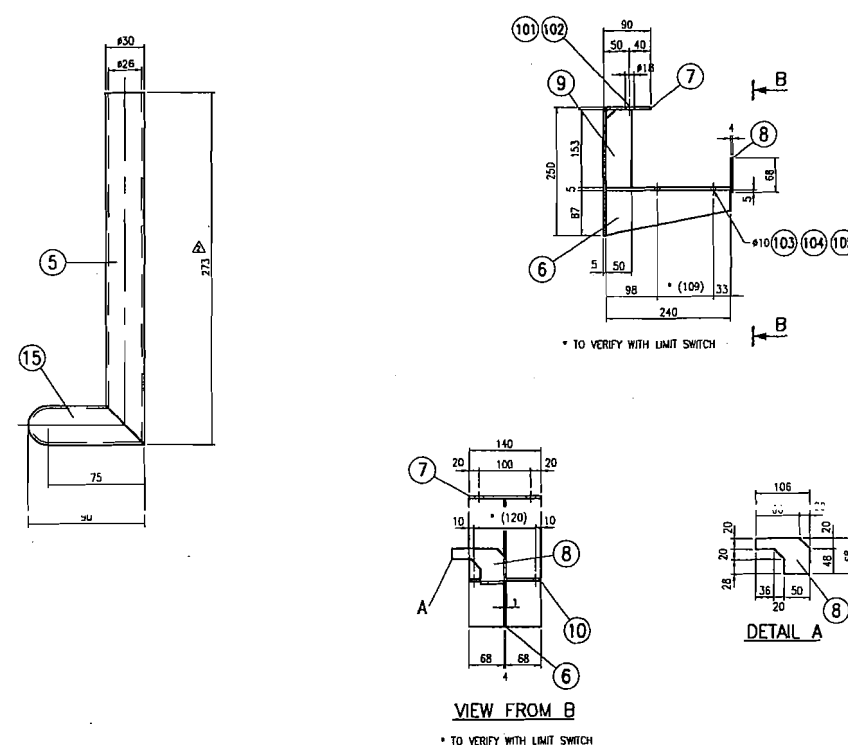
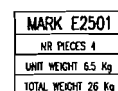
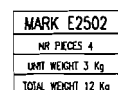
DWG size	A1	
----------	----	---

Where not otherwise indicated $a=0.7$
of minimum thickness, to be connected

Edge preparation for welding
in accordance with AWS D1.1

TOLERANCES
Dimension without tolerance indication

Structural steel work	UNI ISO 2768-M
Mechanics	UNI ISO 2768-F
FINISHING	



WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

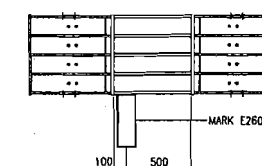
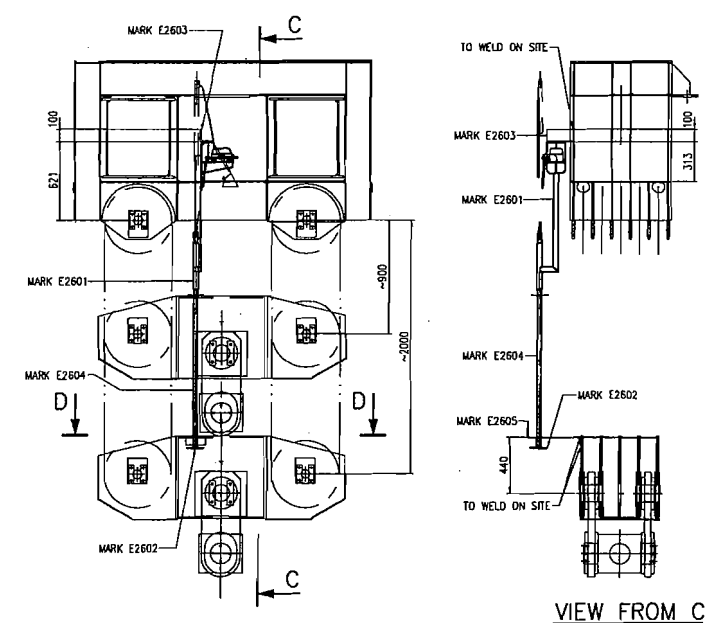
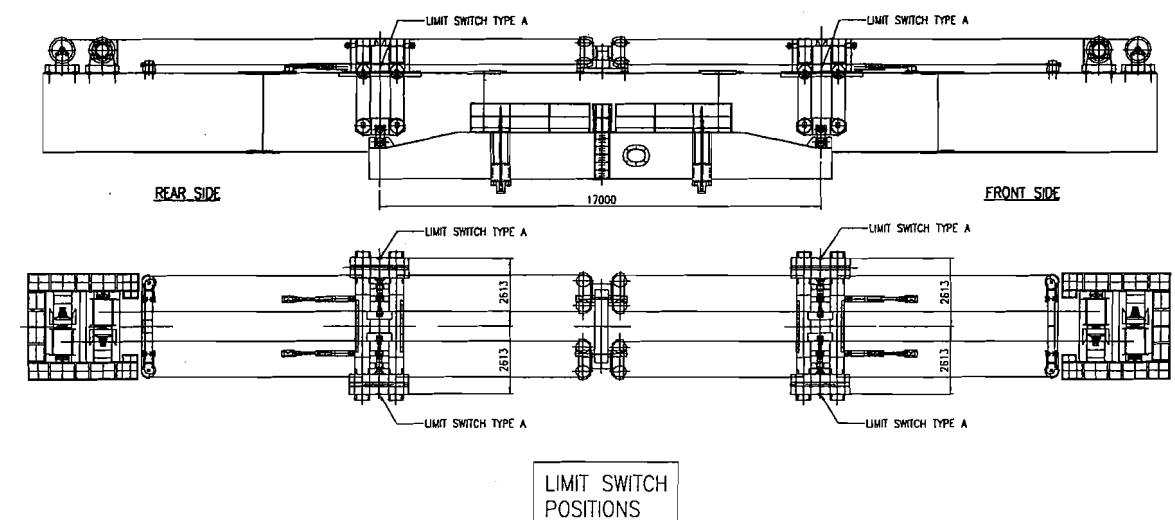
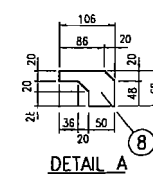
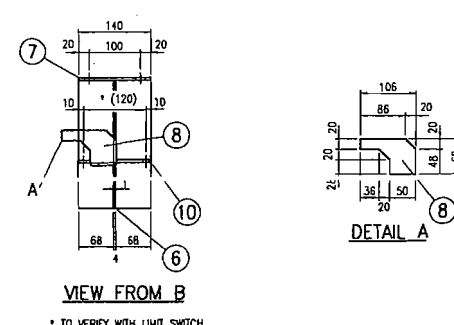
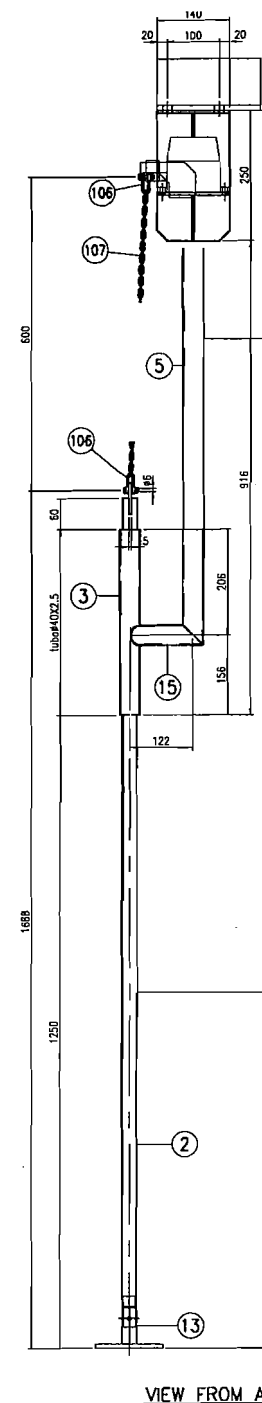
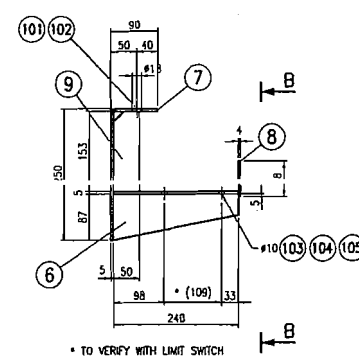
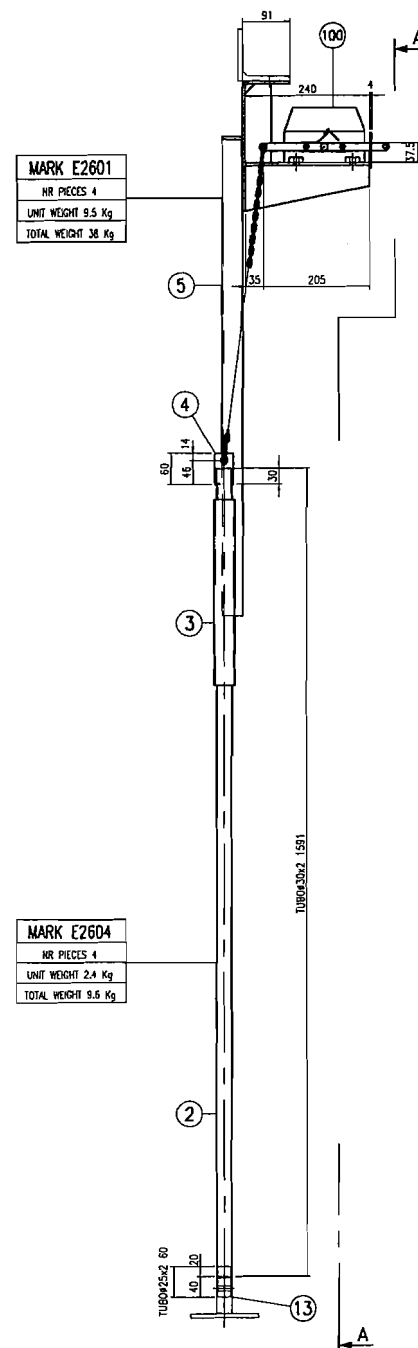
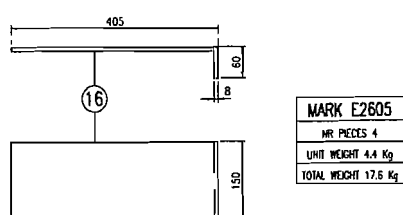
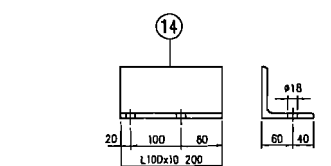
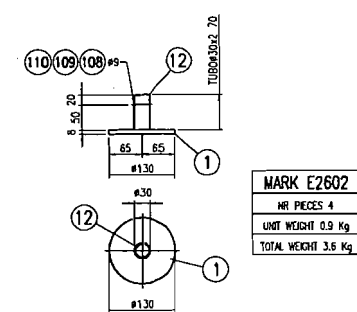
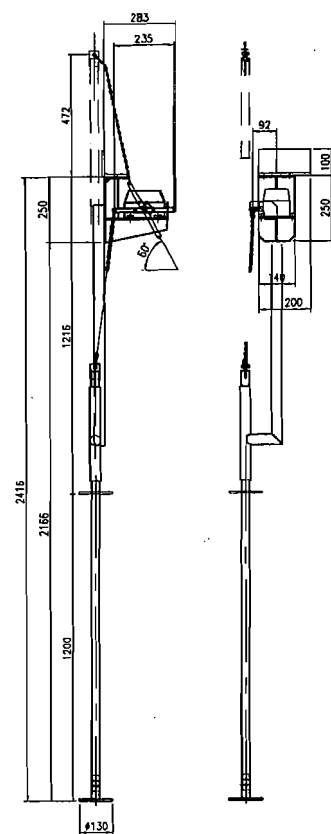
FINAL PAINTING :
ENAMEL BLUE RAL 5012

TOTAL WEIGHT	60	Kg
--------------	----	----

[illegible]

2	23/10/02	REVISED WHERE INDICATED AND MARK E2503	S. GERMANO	F. DEMEGAZZI	REBS
1	04.07.02	GENERAL REVISION	CANDOTTI	CUCCHIARO	REBS
0	13.06.02	FIRST ISSUE	CANDOTTI	CUCCHIARO	REBS
REV.	DATE	REV. OBJECT	DESIGN	DEVELOP	APPROVAL

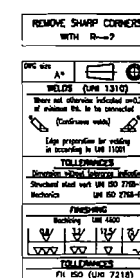
[illegible]



LIMIT SWITCH TYPE A

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

FINAL PAINTING :
ENAMEL BLUE RAL 5017

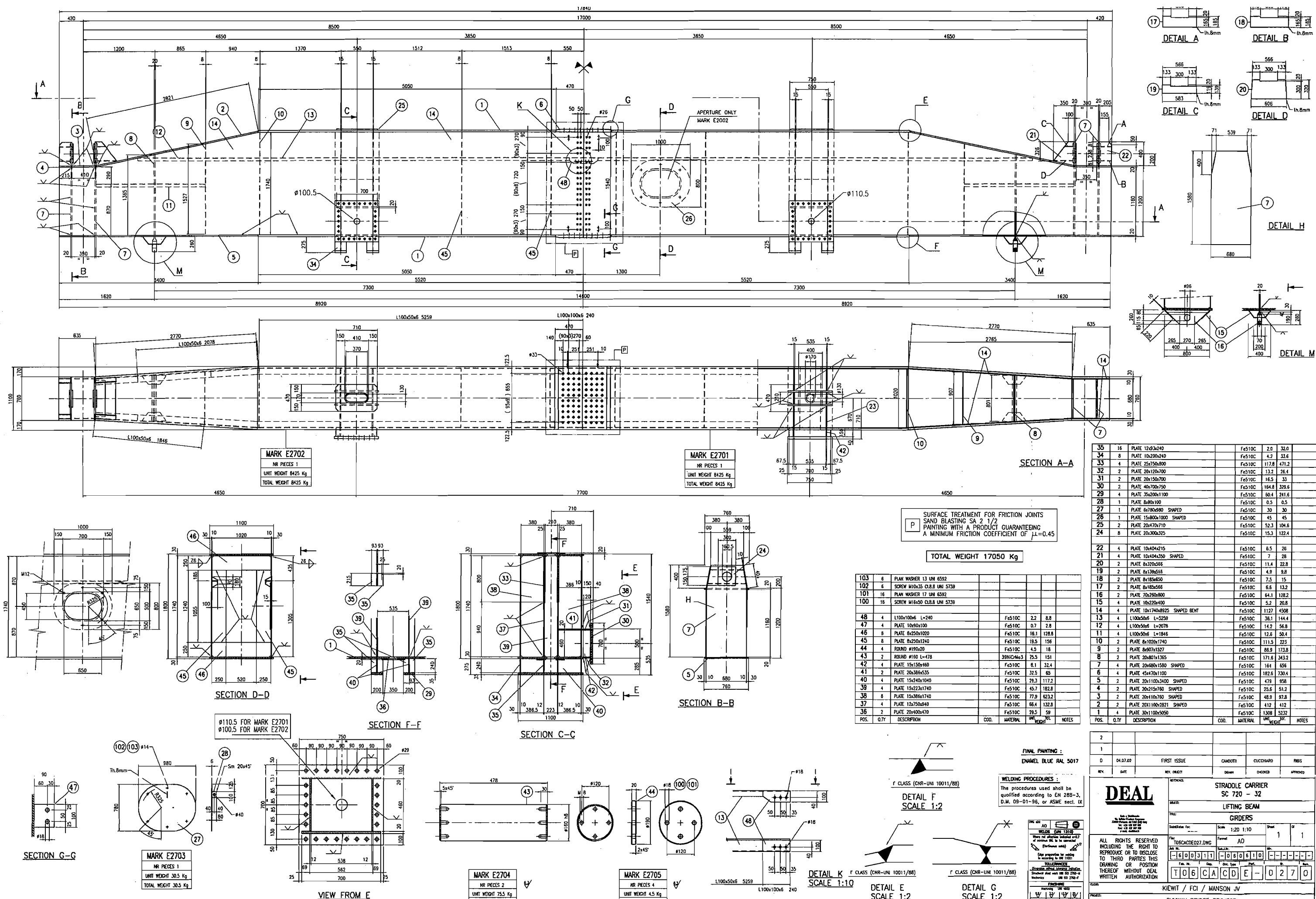


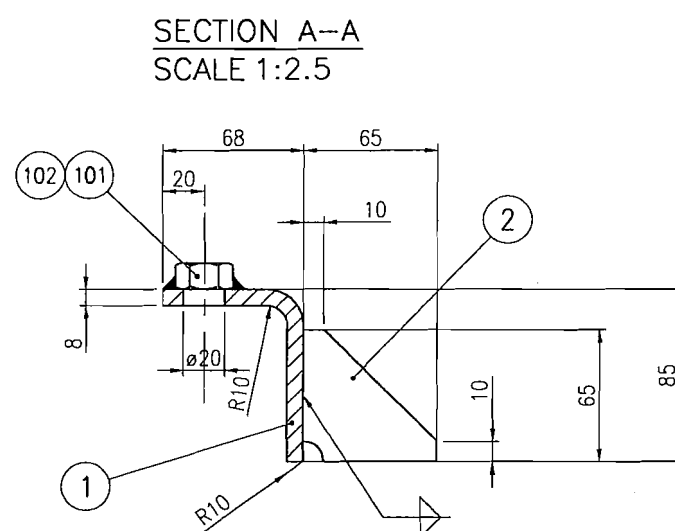
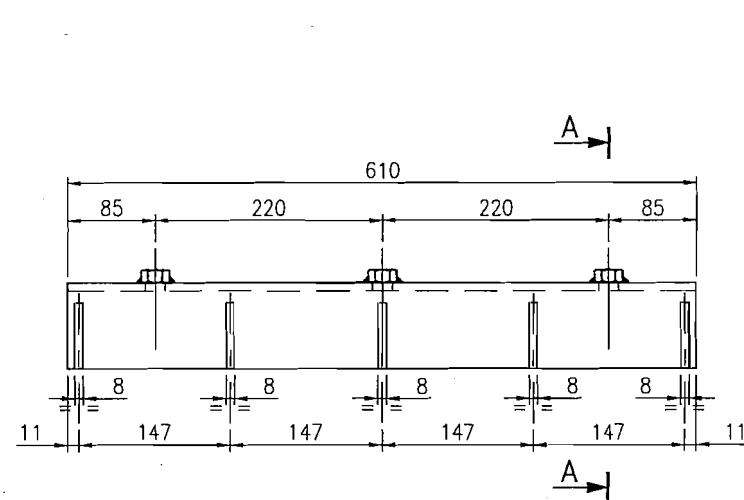
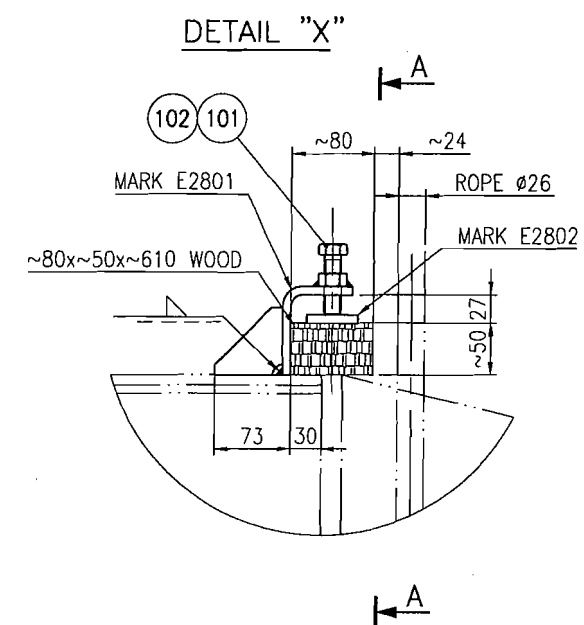
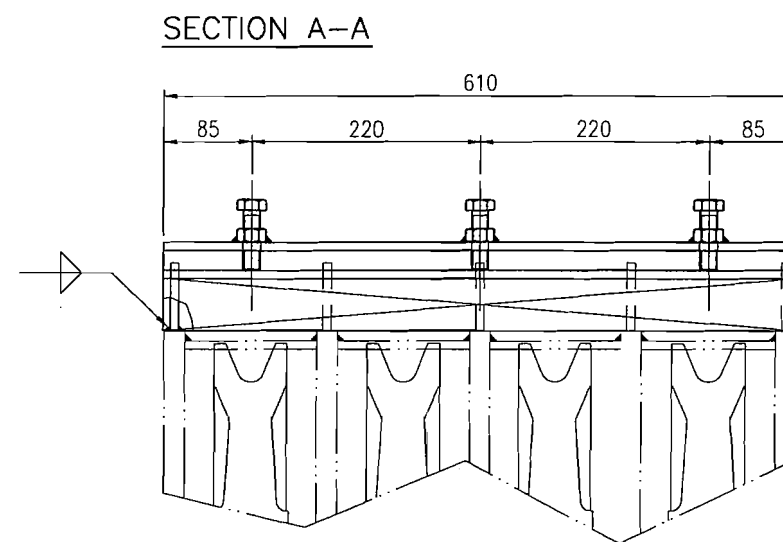
110	4	NUT M8 ES UN5 5588							
109	8	PLAN WASHER #8.4 UNI 6592							
108	4	SCREW M6x40 CL.8 UNI 5739							
107	4	CHAM 2x11 L=250							
106	8	GALVANIZED SPRING CATCH UN1947 TYPE A							
105	16	NUT M8 ES UN5588							
104	32	PLAN WASHER #8.4 UN6592							
103	16	SCREW M6x30 CL.8 UN5739							
102	16	PLAN WASHER #17 UN6552							
101	8	SCREW M16x40 CL.8 UN5739							
100	4	LIMIT SWITCH IZ067-20y					3.5	14	
16	4	PLATE 8x150x470				Fe360B	4.4	17.5	
15	4	TUBE #40 Th.2.5 L=142				Fe360B	0.3	1.2	
14	4	L100x10 L=200				Fe360B	3.0	12	
13	4	TUBE #25 Th.2 L=60				Fe360B	0.08	0.2	
12	4	TUBE #30 Th.2 L=70				Fe360B	0.1	0.4	
11	4	PLATE #40x5				Fe360B	0.05	0.2	
10	4	PLATE 5x140x240				Fe360B	1.3	10.4	
9	4	PLATE 4x50x153				Fe360B	0.2	0.8	
8	4	PLATE 4x68x105				Fe360B	0.2	0.8	
7	4	PLATE 5x140x330 BENT				Fe360B	1.8	7.2	
6	4	PLATE 4x87x240				Fe360B	0.6	2.4	
5	4	TUBE #40 Th.2.5 L=918				Fe360B	2.1	8.4	
4	4	PLATE 5x20x60				Fe360B	0.1	0.4	
3	4	TUBE #40 Th.2.5 L=362				Fe360B	0.8	3.2	
2	4	TUBE #30 Th.2 L=1591				Fe360B	2.2	8.8	
1	4	ROUND #130 L=8				Fe360B	0.8	3.2	
POS.	QTY	DESCRIPTION			COOL.	MATERIAL	Unit	Weight	NOTES

2					
1					
0	04.07.02	FIRST ISSUE	CANDOTTI	CUCCHARO	REBS

[illegible]

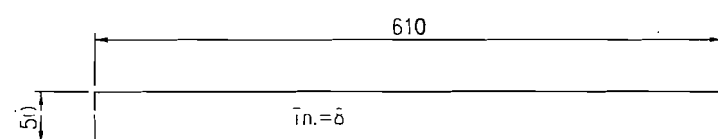
DATE	KIEWIT / FCI / MANSON JV
------	--------------------------





TOTAL WEIGHT = 52 Kg

102	24	NUT M16	UNI 5588		6S			GALVANIZED	
101	24	SCREW M16x50	UNI 5739		8.8			GALVANIZED	
3	8	PLATE 50x8	L= 610		Fe 510 C	1.5	12		
2	40	PLATE 65x8	L= 65 SHAPED		Fe 510 C	0.1	4		
1	8	PLATE 140x8	L= 610 BENT		Fe 510 C	4.5	36		
POS.	Q.TY	DESCRIPTION			COD.	MATERIAL	UNIT. WEIGHT	TOT.	NOTES
2									
1									
0	31.07.02	FIRST ISSUE			S. GERMANO	CUCCHIARO			RIBIS
REV.	DATE	REV. OBJECT			DRAWN	CHECKED			APPROVED



FINAL PAINTING :
ENAMEL BLUE RAL 5017

WELDING PROCEDURES :

The procedures used shall be qualified according to EN 288-3, EN 287-3, EN 288-2, EN 287-2, EN 288-1, EN 287-1, EN 288-0, EN 287-0, EN 288-4, EN 287-4, EN 288-5, EN 287-5, EN 288-6, EN 287-6, EN 288-7, EN 287-7, EN 288-8, EN 287-8, EN 288-9, EN 287-9, EN 288-10, EN 287-10, EN 288-11, EN 287-11, EN 288-12, EN 287-12, EN 288-13, EN 287-13, EN 288-14, EN 287-14, EN 288-15, EN 287-15, EN 288-16, EN 287-16, EN 288-17, EN 287-17, EN 288-18, EN 287-18, EN 288-19, EN 287-19, EN 288-20, EN 287-20, EN 288-21, EN 287-21, EN 288-22, EN 287-22, EN 288-23, EN 287-23, EN 288-24, EN 287-24, EN 288-25, EN 287-25, EN 288-26, EN 287-26, EN 288-27, EN 287-27, EN 288-28, EN 287-28, EN 288-29, EN 287-29, EN 288-30, EN 287-30, EN 288-31, EN 287-31, EN 288-32, EN 287-32, EN 288-33, EN 287-33, EN 288-34, EN 287-34, EN 288-35, EN 287-35, EN 288-36, EN 287-36, EN 288-37, EN 287-37, EN 288-38, EN 287-38, EN 288-39, EN 287-39, EN 288-40, EN 287-40, EN 288-41, EN 287-41, EN 288-42, EN 287-42, EN 288-43, EN 287-43, EN 288-44, EN 287-44, EN 288-45, EN 287-45, EN 288-46, EN 287-46, EN 288-47, EN 287-47, EN 288-48, EN 287-48, EN 288-49, EN 287-49, EN 288-50, EN 287-50, EN 288-51, EN 287-51, EN 288-52, EN 287-52, EN 288-53, EN 287-53, EN 288-54, EN 287-54, EN 288-55, EN 287-55, EN 288-56, EN 287-56, EN 288-57, EN 287-57, EN 288-58, EN 287-58, EN 288-59, EN 287-59, EN 288-60, EN 287-60, EN 288-61, EN 287-61, EN 288-62, EN 287-62, EN 288-63, EN 287-63, EN 288-64, EN 287-64, EN 288-65, EN 287-65, EN 288-66, EN 287-66, EN 288-67, EN 287-67, EN 288-68, EN 287-68, EN 288-69, EN 287-69, EN 288-70, EN 287-70, EN 288-71, EN 287-71, EN 288-72, EN 287-72, EN 288-73, EN 287-73, EN 288-74, EN 287-74, EN 288-75, EN 287-75, EN 288-76, EN 287-76, EN 288-77, EN 287-77, EN 288-78, EN 287-78, EN 288-79, EN 287-79, EN 288-80, EN 287-80, EN 288-81, EN 287-81, EN 288-82, EN 287-82, EN 288-83, EN 287-83, EN 288-84, EN 287-84, EN 288-85, EN 287-85, EN 288-86, EN 287-86, EN 288-87, EN 287-87, EN 288-88, EN 287-88, EN 288-89, EN 287-89, EN 288-90, EN 287-90, EN 288-91, EN 287-91, EN 288-92, EN 287-92, EN 288-93, EN 287-93, EN 288-94, EN 287-94, EN 288-95, EN 287-95, EN 288-96, EN 287-96, EN 288-97, EN 287-97, EN 288-98, EN 287-98, EN 288-99, EN 287-99, EN 288-100, EN 287-100, EN 288-101, EN 287-101, EN 288-102, EN 287-102, EN 288-103, EN 287-103, EN 288-104, EN 287-104, EN 288-105, EN 287-105, EN 288-106, EN 287-106, EN 288-107, EN 287-107, EN 288-108, EN 287-108, EN 288-109, EN 287-109, EN 288-110, EN 287-110, EN 288-111, EN 287-111, EN 288-112, EN 287-112, EN 288-113, EN 287-113, EN 288-114, EN 287-114, EN 288-115, EN 287-115, EN 288-116, EN 287-116, EN 288-117, EN 287-117, EN 288-118, EN 287-118, EN 288-119, EN 287-119, EN 288-120, EN 287-120, EN 288-121, EN 287-121, EN 288-122, EN 287-122, EN 288-123, EN 287-123, EN 288-124, EN 287-124, EN 288-125, EN 287-125, EN 288-126, EN 287-126, EN 288-127, EN 287-127, EN 288-128, EN 287-128, EN 288-129, EN 287-129, EN 288-130, EN 287-130, EN 288-131, EN 287-131, EN 288-132, EN 287-132, EN 288-133, EN 287-133, EN 288-134, EN 287-134, EN 288-135, EN 287-135, EN 288-136, EN 287-136, EN 288-137, EN 287-137, EN 288-138, EN 287-138, EN 288-139, EN 287-139, EN 288-140, EN 287-140, EN 288-141, EN 287-141, EN 288-142, EN 287-142, EN 288-143, EN 287-143, EN 288-144, EN 287-144, EN 288-145, EN 287-145, EN 288-146, EN 287-146, EN 288-147, EN 287-147, EN 288-148, EN 287-148, EN 288-149, EN 287-149, EN 288-150, EN 287-150, EN 288-151, EN 287-151, EN 288-152, EN 287-152, EN 288-153, EN 287-153, EN 288-154, EN 287-154, EN 288-155, EN 287-155, EN 288-156, EN 287-156, EN 288-157, EN 287-157, EN 288-158, EN 287-158, EN 288-159, EN 287-159, EN 288-160, EN 287-160, EN 288-161, EN 287-161, EN 288-162, EN 287-162, EN 288-163, EN 287-163, EN 288-164, EN 287-164, EN 288-165, EN 287-165, EN 288-166, EN 287-166, EN 288-167, EN 287-167, EN 288-168, EN 287-168, EN 288-169, EN 287-169, EN 288-170, EN 287-170, EN 288-171, EN 287-171, EN 288-172, EN 287-172, EN 288-173, EN 287-173, EN 288-174, EN 287-174, EN 288-175, EN 287-175, EN 288-176, EN 287-176, EN 288-177, EN 287-177, EN 288-178, EN 287-178, EN 288-179, EN 287-179, EN 288-180, EN 287-180, EN 288-181, EN 287-181, EN 288-182, EN 287-182, EN 288-183, EN 287-183, EN 288-184, EN 287-184, EN 288-185, EN 287-185, EN 288-186, EN 287-186, EN 288-187, EN 287-187, EN 288-188, EN 287-188, EN 288-189, EN 287-189, EN 288-190, EN 287-190, EN 288-191, EN 287-191, EN 288-192, EN 287-192, EN 288-193, EN 287-193, EN 288-194, EN 287-194, EN 288-195, EN 287-195, EN 288-196, EN 287-196, EN 288-197, EN 287-197, EN 288-198, EN 287-198, EN 288-199, EN 287-199, EN 288-200, EN 287-200, EN 288-201, EN 287-201, EN 288-202, EN 287-202, EN 288-203, EN 287-203, EN 288-204, EN 287-204, EN 288-205, EN 287-205, EN 288-206, EN 287-206, EN 288-207, EN 287-207, EN 288-208, EN 287-208, EN 288-209, EN 287-209, EN 288-210, EN 287-210, EN 288-211, EN 287-211, EN 288-212, EN 287-212, EN 288-213, EN 287-213, EN 288-214, EN 2

REMOVE SHARP CORNERS
WITH $R \sim 2$

DWG size A1

WELDS (UNI 1310)

Where not otherwise indicated $\alpha = 0.7$ of minimum thk. to be connected

(Continuous welds)

Edge preparation for welding in according to UNI 11001

TOLLERANCES	
Dimension without tolerance indication	
Structural steel work	UNI ISO 2768-M
Mechanics	UNI ISO 2768-F

FINISHING			
Machining		UNI 4600	
0.8 	3.2 	12.5 	25 
			

TOLERANCES

DEAL

Sede e Stabilimento
Via Bullio-Frazione Cornacco
33050-Pozzuolo del Friuli (UD)-Italia
Tel.: +39 432 607 900
Fax: +39 432 607 902
e-mail: deal@deal.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

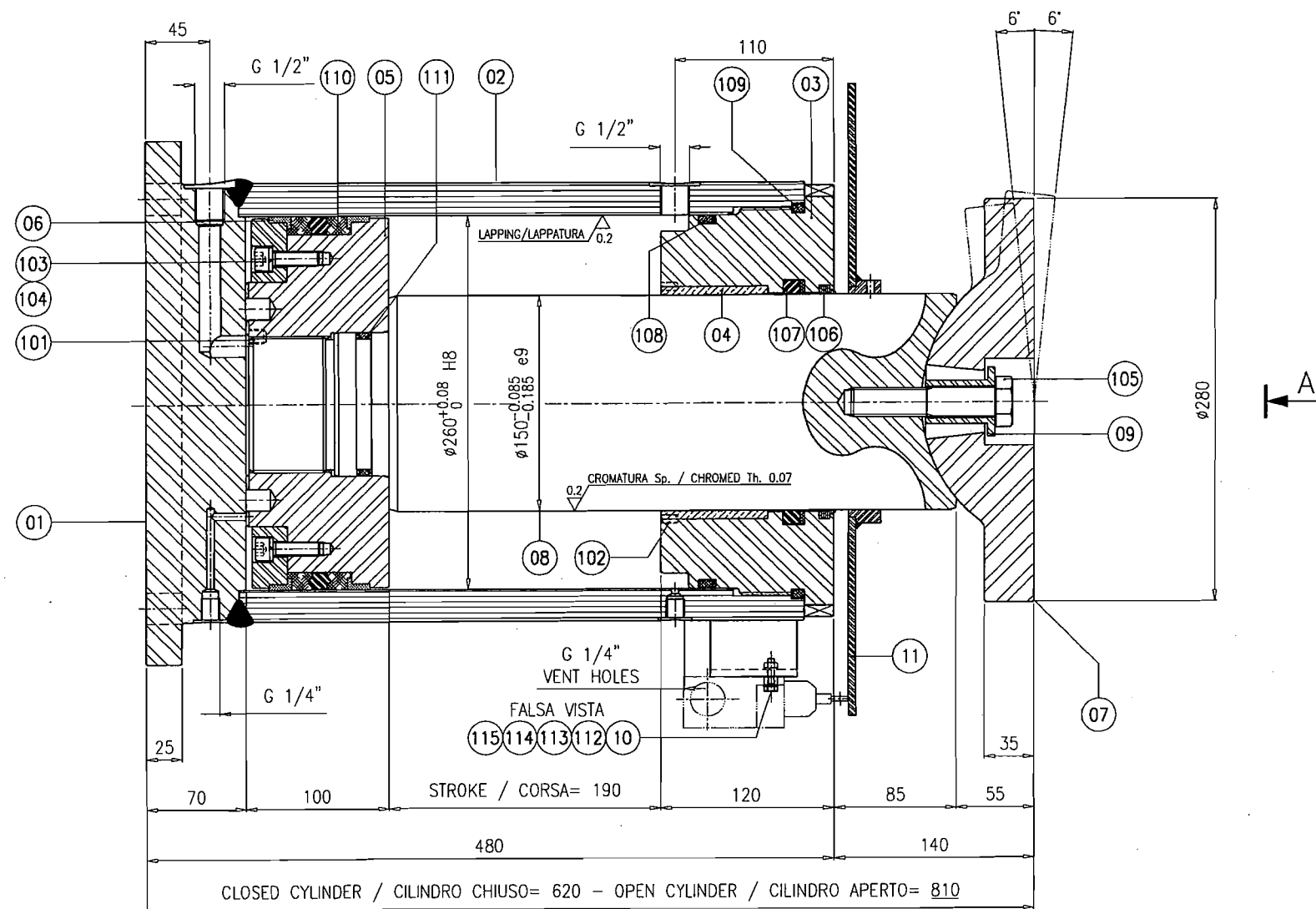
CLIENT:

PROJECT:

REFERENCE:	STRADDLE CARRIER SC 720 - 32																
OBJECT:	HOISTING WINCH																
TITLE:	ACCESSORIES																
Substitutes for: ---	Scale 1:2.5 1:5 1:10						Sheet 1		Of 1								
File: T06DUC0E028.DWG	Format A2																
Tab. No. - 6 0 0 3 1 1	Col. No. - 0 6 0 5 2 9						Row. - - - - - - - -										
Fob. Nr.			Dep.			Doc. Type			Part.			Nr.			Rev.		
T 0 6			D U			C D			E -			0 2 8			0		

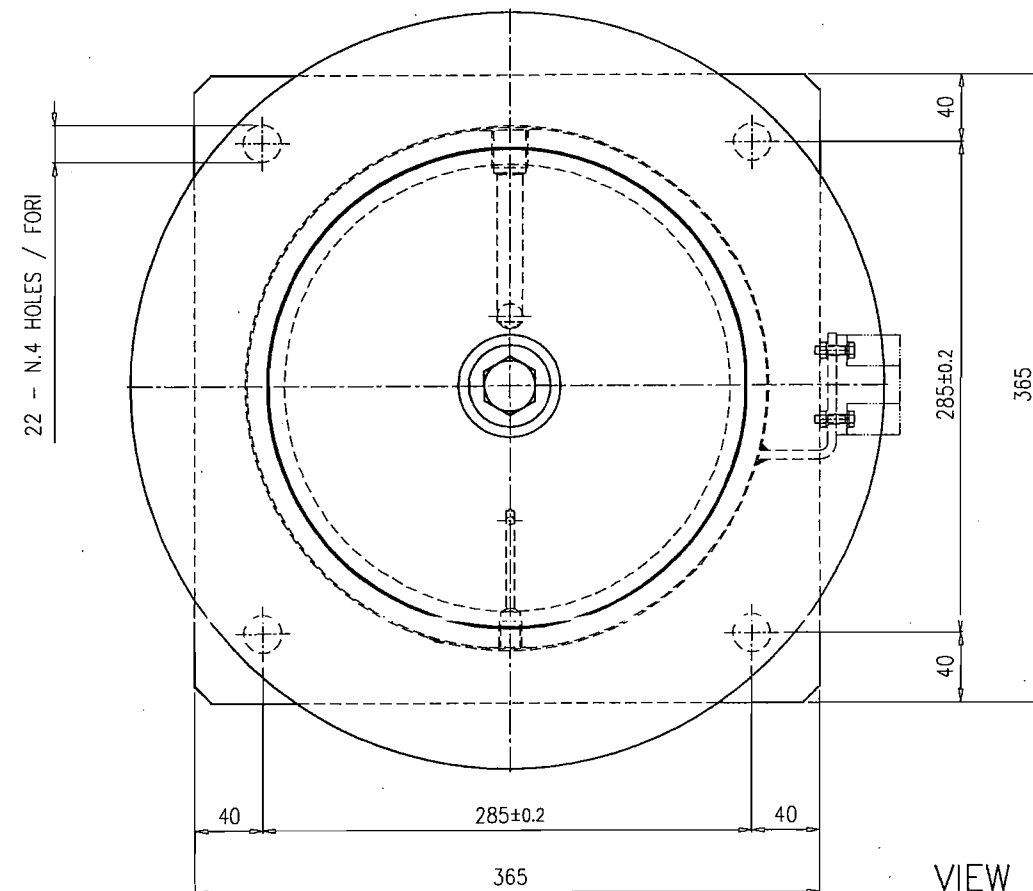
KIEWIT / FCI / MANSON JV

SKYWAY BRIDGE PROJECT
S. FRANCISCO - OAKLAND BAY BRIDGE - USA



MARK A100
NR. PIECES 2
UNIT WEIGHT 260 Kg
TOTAL WEIGHT 520 Kg

Technical Data \ Dati Tecnici
Pushing Force: 1400 KN
Reentering Force: 940 KN
Transversal Force on the Oscillating Support: 150 KN
Main Bore: $\varnothing 260$ mm H8
Rod: $\varnothing 150$ mm e9
Stroke: 190 mm
Working pressure: 26.4 MPa
Test pressure: 35 MPa
Pushing Section: 530.66 cm ²
Reentering Section: 354.03 cm ²
Ratio PS / RS: 1 : 1.498



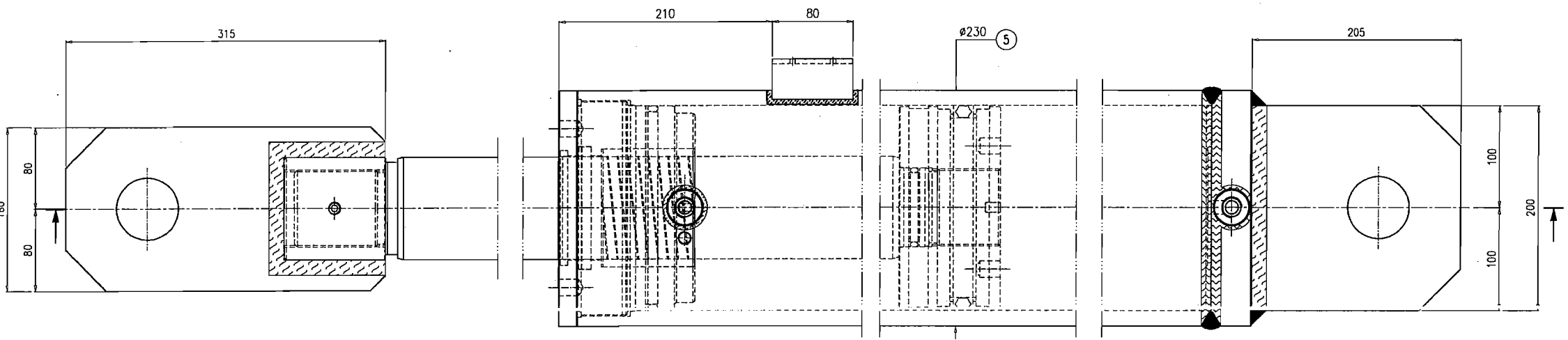
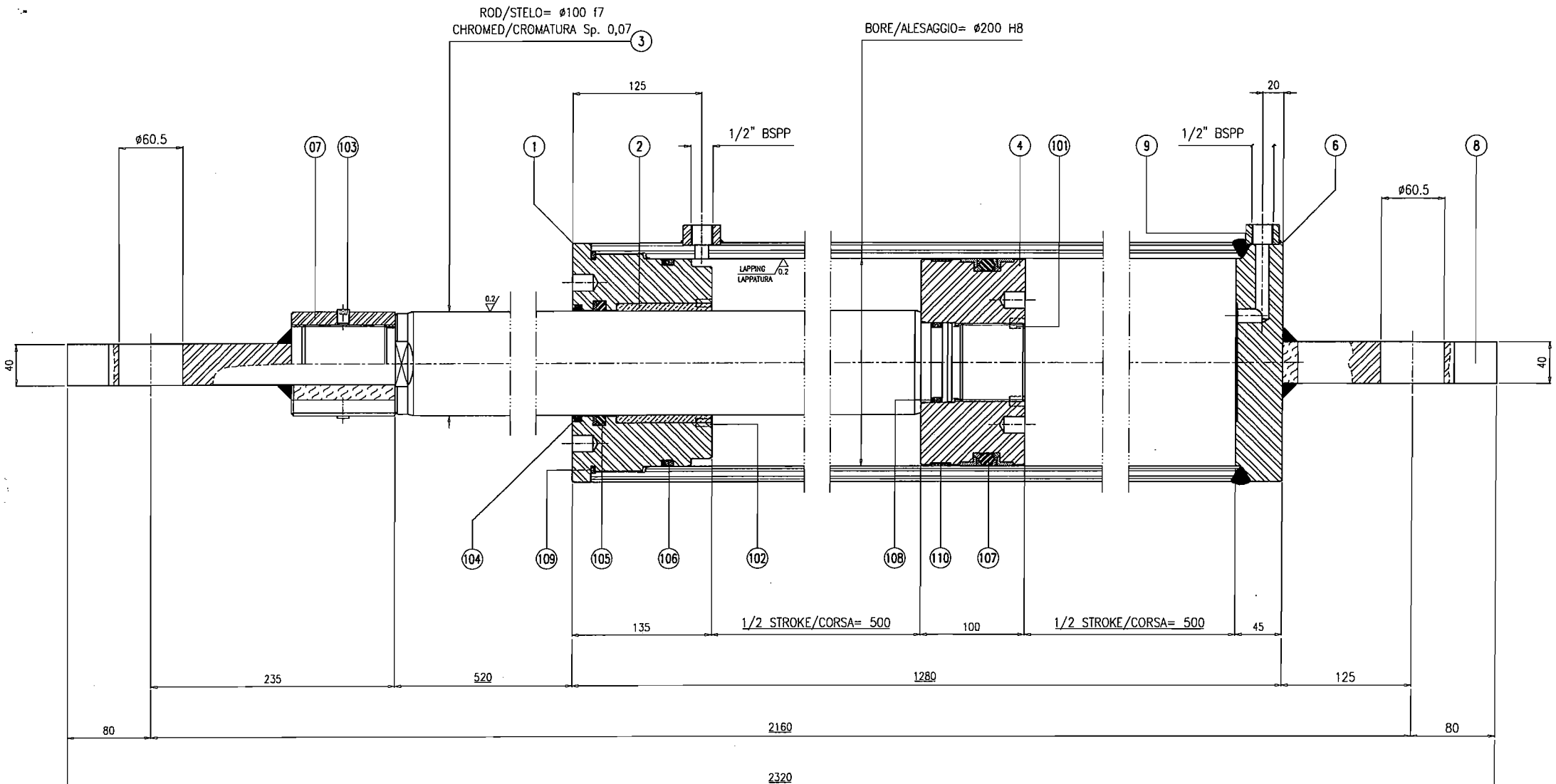
TOTAL WEIGHT = 523.3 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

115	2	LIMIT-SWITCH 7722		RAVASI	0.2	0.4	
114	8	WASHER \ RONDELLA 5.3x10 UNI 6592					COMM.
113	4	NUT \ DADO M6 UNI 5588					COMM.
112	4	SCREW \ VITE TE M8x20 UNI 5739		8.8			COMM.
111	2	PISTON O-RING \ O-RING PER PISTONE		OR 621+2BR			POLYPAC
110	2	PISTON SEAL \ GUARNIZIONE PISTONE		DSM-1024925/1A			POLYPAC
109	2	EXTREMITY O-RING \ O-RING PER TESTATA		OR 682			POLYPAC
108	2	EXTREMITY O-RING \ O-RING D'ESTREMITA'		OR 680+BK			POLYPAC
107	2	ROD SEAL \ GUARNIZIONE STELO		B-669590/1			POLYPAC
106	2	WIPER SEAL \ RASCHIATORE		WRM-590637			POLYPAC
105	2	SCREW \ VITE TE M20x100 UNI 5737		8.8			COMM.
104	16	WASHER \ RONDELLA DIN 7980 - 10					COMM.
103	16	SCREW \ VITE TCEI M10x35 UNI 5931		8.8			COMM.
102	4	SCREW \ GRANO STEI M6x12 UNI 5923		8.8			COMM.
101	2	SCREW \ GRANO STEI M10x12 UNI 5923		8.8			COMM.
11	2	DISK \ DISCO PER MICRO		Fe 510	5.9	11.8	T06MEANA001
10	2	SUPPORT \ SUPPORTO MICRO		Fe 360	0.25	0.5	T06MEANA001
09	2	BUSH \ BOCCOLA		Fe 410	0.2	0.4	T06MEANA001
08	2	CHROMED ROD \ STELO CROMATO		C40 Chrom.	58.8	117.6	T06MEANA001
07	2	OSCILLATING SUPPORT \ PIATTELLO OSCILLANTE		Fe 490	20	40	T06MEANA001
06	2	RING PISTON \ ANELLO PISTONE		C40	5.2	10.4	T06MEANA001
05	2	PISTON \ PISTONE		C40	25	50	T06MEANA001
04	2	BRONZE RING GUIDE ROD \ BRONZINA GUIDA STELO		Br. B14 Centr.	1.9	3.8	T06MEANA001
03	2	FRONT EXTREMITY \ ESTREMITA' ANTERIORE		C40	33	66	T06MEANA001
02	2	CYLINDER BODY \ TUBO CAMICIA		Fe 510 C	61.4	122.8	T06MEANA001
01	2	REAR CLOSING FLANGE \ FONDELLO		Fe 490	50	100	T06MEANA001
POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT. WEIGHT	TOT. WEIGHT	NOTES

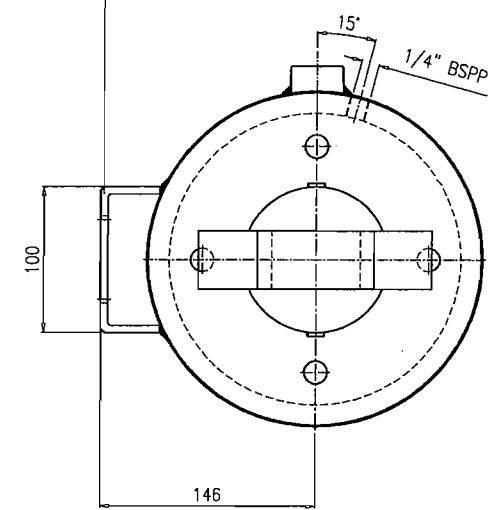
2					
1	11/09/02	REVISION POS. 10,11,105,112,113,114	MENGHINI	S. GERMANO	RIBIS
0	22/06/02	FIRST ISSUED	MENGHINI	CUCCHIARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL Sede e Stabilimento Via Battulo-Frascone Cargnacco 33050-Porzano del Friuli (UD)-Italy Tel.: +39 432 521 836 Tel.: +39 432 607 204 Fax: +39 432 607 202 Ufficio Commerciale e Tecnico Via della Ferrovia-Borgo Corallo 33050-Forte di Udine (UD)-Italy Tel.: +39 432 656 911 Fax: +39 432 675 216 E-Mail: deal@deal.it	REFERENCE: STRADDLE CARRIER SC 720 - 32			
	OBJECT: HYDRAULIC JACKS FOR BLOCK LONGITUDINAL HINGE			
	TITLE: HYDRAULIC JACKS $\varnothing 260/\varnothing 150$ /STROKE 190			
	Substitutes for: ---	Scale 1:3	Sheet 1	Of 1
File: T06MEANA001_1.dwg	Format A2			
Inch Nr	Size Nr	Mr.		
- 6 0 0 3 1 1	- 0 6 0 2 5 2	- - - - -		
Fob. Nr.	Dep.	Doc. Type	Port.	
T 0 6	M E	A N	A -	
Nr. 0 0 1 1				
Rev.				
CLIENT: KIEWIT / FCI / MANSON JV				
PROJECT: SKYWAY BRIDGE PROJECT S. FRANCISCO - OAKLAND BAY BRIDGE - USA				



MARK E100
NR. PIECES 4
UNIT WEIGHT 270 Kg
TOTAL WEIGHT 1080 Kg

Technical Data \ Dati Tecnici	
Reentering force:	600 KN
Main Bore:	200 mm H8
Stela:	100 mm I7
Stroke:	1000 mm (±500)
Working pressure:	200 bar
Test pressure:	300 bar
Pushing Section:	314,16 cm²
Reentering Section:	235,62 cm²
Ratio SS / ST:	1.33



TOTAL WEIGHT = 1082 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT	WEIGHT	NOTES
110	4	PISTON GUIDE ELEMENT \ ANELLO DI GUIDA PISTONE	E/DWR 200				POLYPAC
109	4	EXTREMITY O-RING \ O-RING PER TESTATA	OR 369				POLYPAC
108	4	PISTON O-RING \ O-RING PER PISTONE	OR 334+2BR				POLYPAC
107	4	PISTON SEAL \ GUARNIZIONE PISTONE	DBM-787688				POLYPAC
106	4	EXTREMITY O-RING \ O-RING D'ESTREMITA'	OR 882+BR				POLYPAC
105	4	ROD SEAL \ GUARNIZIONE STELO	B-472393/1				POLYPAC
104	4	WIPER SEAL \ RASCHIATORE	WRM-393440				POLYPAC
103	8	SCREW \ GRANO STEI M12x15 UNI 5923	8.8				COMM.
102	8	SCREW \ GRANO STEI M8x15 UNI 5923	8.8				COMM.
101	8	SCREW \ GRANO STEI M10x15 UNI 5923	8.8				COMM.
10	4	SUPPORT \ SUPPORTO MICRO	E109	Fe 410	0.5	2	
9	8	OIL PORT \ ATTACCO OLIO	E109	Fe 510 C	0.1	0.8	
8	4	REAR ATTACK \ ATTACCO POSTERIORE	E108	Fe 510 C	11.5	46	
7	4	ROD ATTACK \ ATTACCO PER STELO	E107	Fe 510 C	21.5	86	
6	4	REAR CLOSING FLANGE \ FONDELLO	E106	Fe 510 C	14	56	
5	4	CYLINDER BODY \ TUBO CAMICIA	E105	Fe 510 C	97	388	
4	4	PISTON \ PISTONE	E104	C40	20	80	
3	4	CHROMED ROD \ STELO CROMATO	E103	C43 Crom.	77	308	
2	4	BRONZE RING GUIDE ROD \ BRONZINA GUIDA STELO	E102	Br. B14 Centr.	2	8	
1	4	FRONT EXTREMITY \ ESTREMITA' ANTERIORE	E101	C40	24	96	

REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
2					
1	12/09/02	REVISION POS. 5,6,10	S. GERMANO	G. CUCCHIARO	G. RIBIS
0	23/05/02	FIRST ISSUE	S. GERMANO	G. CUCCHIARO	G. RIBIS

DEAL
Scale e Modifiche
33000-Fornitura del FIDA (G3)-M3
Tel.: +39 032 907 800
Fax: +39 032 907 802
e-mail: deal@deal.it

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
AUTHORIZATION

REFERENCE:
STRADDLE CARRIER
SC 720 - 32

OBJECT:
WINCHES GROUP-LONGITUDINAL REGULATION JACKS

TITLE:
HYDRAULIC JACKS 200/100/ STROKE 1000 (±500)

Substitutes for: ---

Scale: 1:2.5

Sheet 1 of 1

Formet A1

Job No. ---

Sub.J.Nr. ---

Mtr. ---

Doc. No. 060311

Doc. Type 060552

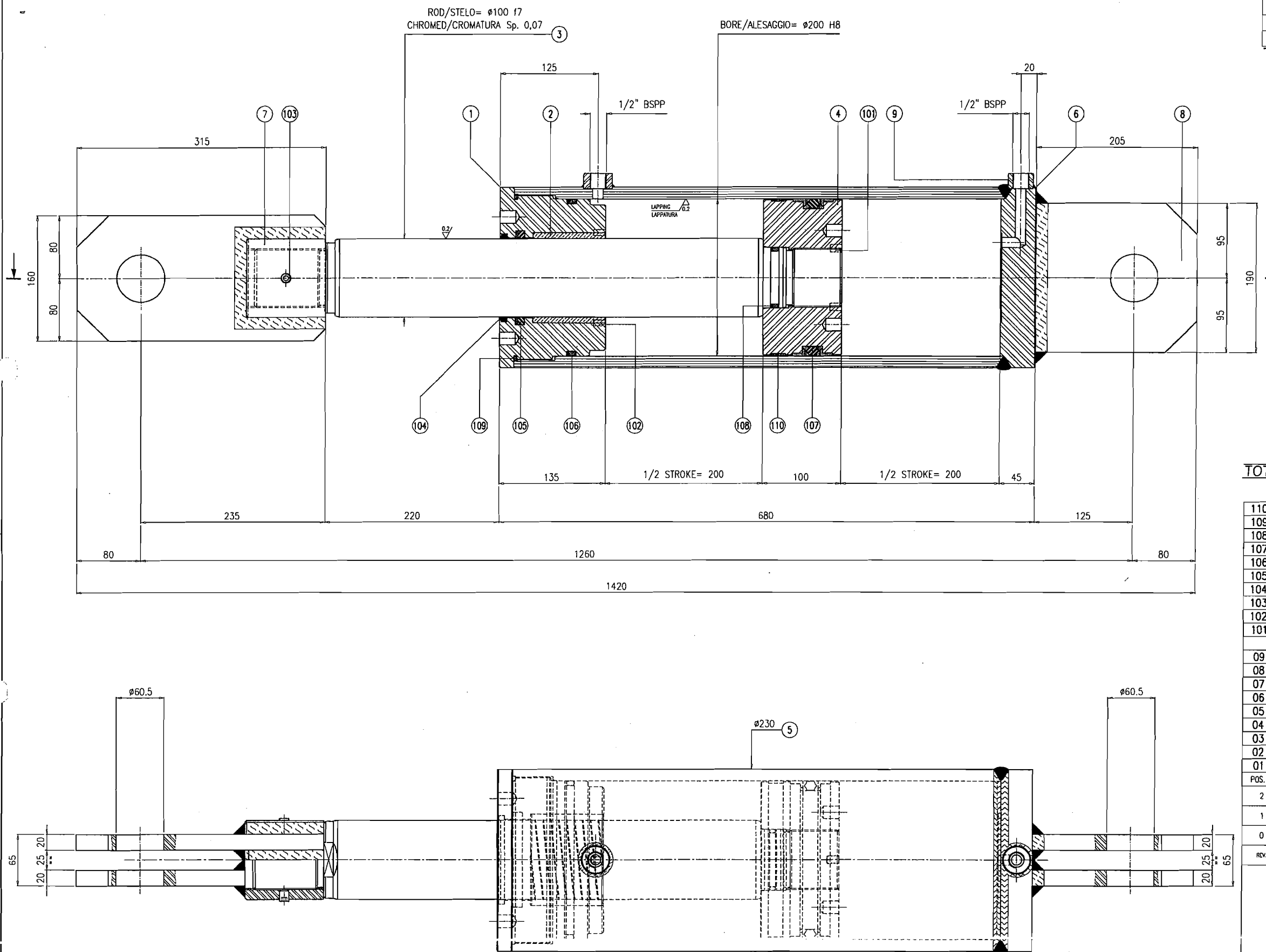
Part. ---

Nr. ---

Rev. ---

06DUANE-0011

CLIENT: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT



MARK E200
NR. PIECES 4
UNIT WEIGHT 185 Kg
TOTAL WEIGHT 740 Kg

Technical Data \ Dati Tecnici	
Reentering force:	600 KN
Main Bore:	Ø200 mm H8
Stelo:	Ø100 mm I7
Stroke:	400 mm (±200)
Working pressure:	200 bar
Test pressure:	300 bar
Pushing Section:	314,16 cm ²
Reentering Section:	235,62 cm ²
Ratio SS / ST:	1.33

TOTAL WEIGHT = 740 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

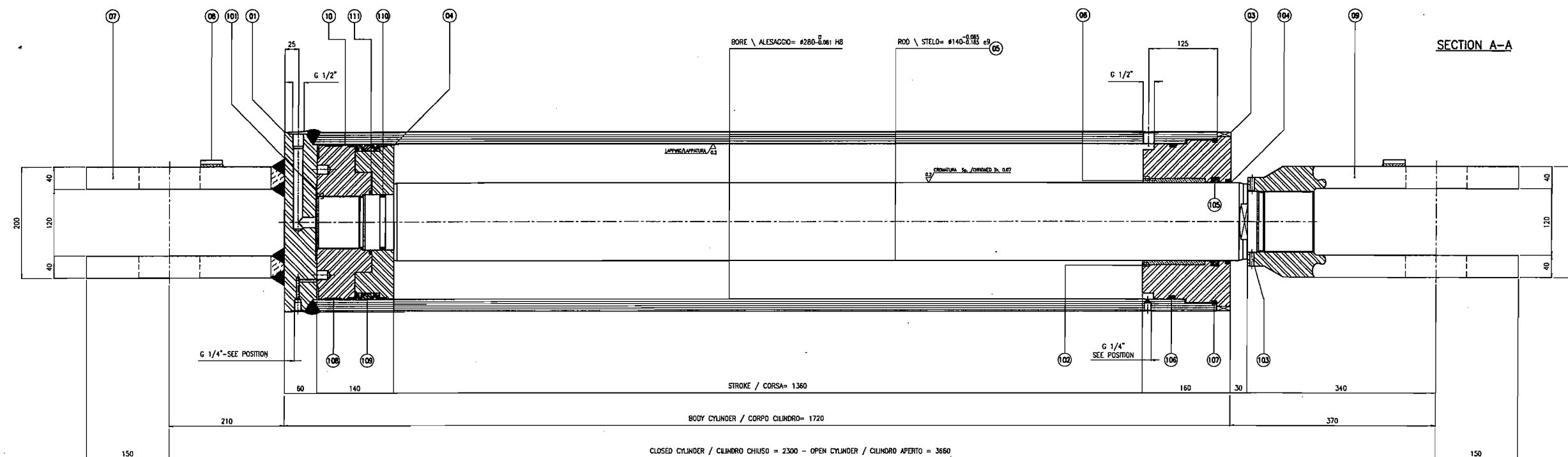
110	4	PISTON GUIDE ELEMENT \ ANELLO DI GUIDA PISTONE	E/DWR 200			POLYPAC
109	4	EXTREMITY O-RING \ O-RING PER TESTATA	OR 369			POLYPAC
108	4	PISTON O-RING \ O-RING PER PISTONE	OR 334+2BR			POLYPAC
107	4	PISTON SEAL \ GUARNIZIONE PISTONE	DBM-787688			POLYPAC
106	4	EXTREMITY O-RING \ O-RING D'ESTREMITA'	OR 882+BR			POLYPAC
105	4	ROD SEAL \ GUARNIZIONE STELO	B-472393/1			POLYPAC
104	4	WIPER SEAL \ RASCHIATORE	WRM-393440			POLYPAC
103	8	SCREW \ GRANO STEI M12x15 UNI 5923	8.8			COMM.
102	8	SCREW \ GRANO STEI M8x15 UNI 5923	8.8			COMM.
101	8	SCREW \ GRANO STEI M10x15 UNI 5923	8.8			COMM.
09	8	OIL PORT \ ATTACCO OLIO	E209	Fe 510 C	0.1	0.8
08	8	REAR ATTACK \ ATTACCO POSTERIORE	E208	Fe 510 C	5.5	44
07	4	ROD ATTACK \ ATTACCO PER STELO	E207	Fe 510 C	21.5	86
06	4	REAR CLOSING FLANGE \ FONDELLO	E206	Fe 510 C	14	56
05	4	CYLINDER BODY \ TUBO CAMICIA	E205	Fe 510 C	50	200
04	4	PISTON \ PISTONE	E204	C40	20	80
03	4	CHROMED ROD \ STELO CROMATO	E203	C43 Crom.	40	160
02	4	BRONZE RING GUIDE ROD \ BRONZINA GUIDA STELO	E202	Br. 814 Centr.	2	8
01	4	FRONT EXTREMITY \ ESTREMITA' ANTERIORE	E201	C40	24	96

POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT.	WEIGHT	NOTES
2							
1							
0	24/05/02	FIRST ISSUE	S. GERMANO	G. CUCCHIARO	G. RIBIS		

DEALSede e Stabilimento
33020-Pordenone del Friuli (UD)-Italy
Tel.: +39 0432 867 800
Fax: +39 0432 867 900
e-mail: deal@deal.itALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

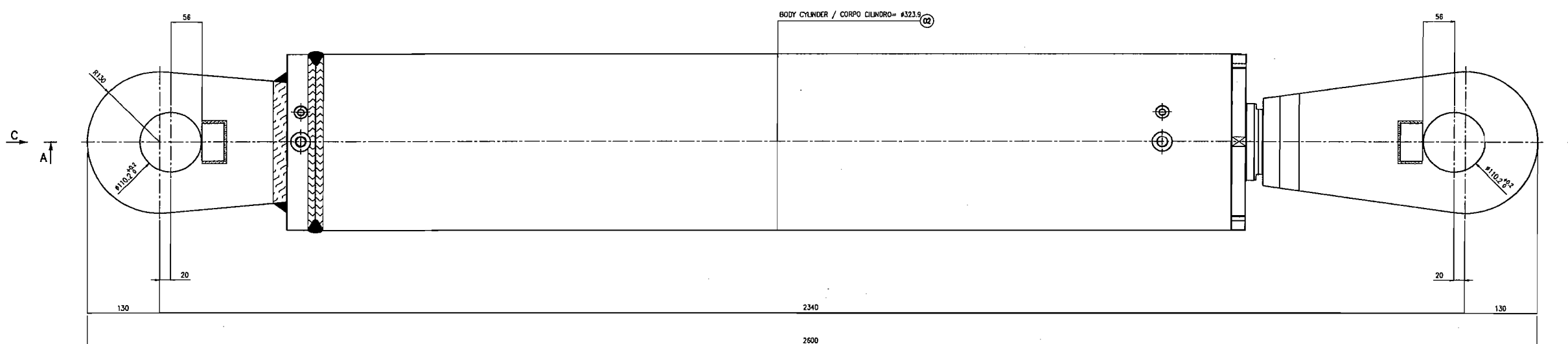
REFERENCE		STRADDLE CARRIER SC 720 - 32	
OBJECT:		WINCHES GROUP-TRANSVERSAL REGULATION JACKS	
TITLE:		HYDRAULIC JACKS Ø200/Ø100 / STROKE 100 (±200)	
Substitutes for:	Scale	1:2.5	Sheet 01
File:	Format	A1	1
Job Nr.	Sub.J.Nr.	Mtr.	
-6000311	-060552	- - - - -	
Tab. Nr.	Dep.	Doc. Type	Part. Nr.
T06DUANE	-	0020	

CLIENT:	KIEWIT / FCI / MANSON JV
PROJECT:	SKYWAY BRIDGE PROJECT



Technical Data \ Dati Tecnici
Pushing / Reentering force: 1200 kN
Main Bore: $\varnothing 280$ mm H8
Rod: $\varnothing 140$ mm g6
Stroke: 1360 mm
Working pressure: 26 MPa
Test pressure: 35 MPa
Pushing Section: 815.44 cm ²
Reentering Section: 481.58 cm ²
Ratio PS / RS: 1 : 1.33

MARK F100
NR. PIECES 8
UNIT WEIGHT 725 Kg
TOTAL WEIGHT 5800 Kg



TOTAL WEIGHT = 5643.6 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

111	B	ROD O-RING \ O-RING PER STELO		OR 346		POLYPAC
110	B	PISTON O-RING \ O-RING PER PISTONE		OR 621+26H		POLYPAC
109	B	PISTON SEAL \ GUARNIZIONE PISTONE		BSW-112100/14		POLYPAC
108	B	RING GUIDE PISTON \VASSCA GUIDA PISTONE	350x810	PI TE		POLYPAC
107	B	EXTREMITY O-RING \ O-RING PER TESTATA		OR 686		POLYPAC
106	B	EXTREMITY O-RING \ O-RING D'ESTREMITA'		OR 450+8R		POLYPAC
105	B	ROD SEAL \ GUARNIZIONE STELO		B-629551/1		POLYPAC
104	B	WIPER SEAL \ RASCIATORE		WRW-251598		POLYPAC
103	16	SCREW \ GRANO STEI M8x25 UNI 5923		8.8		CONAH
102	16	SCREW \ GRANO STEI M8x12 UNI 5921		8.8		CONAH
101	8	SCREW \ GRANO STEI M10x12 UNI 5923		8.8		CONAH

10	8	PISTON \ PISTONE		C40	32.6	260.8	TORNECHINO
09	8	ANTERIOR CYLINDER ATTACK\ATTACCO ANTERIORE		Fe 510 B	68	552	TORNECHINO
08		LOCK PLATE \ PIASTO DI FERMO		Fe 410	0.25	2	TORNECHINO
07	16	Rear CYLINDER ATTACK\ATTACCO POSTERIORE		Fe 510	11.14	91.2	TORNECHINO
06	8	BRODGE PINS CURVE ROD\BRODIGNA GUIDA STILO		Bn: B14 Ccnfr.	35	28	TORNECHINO
05	8	CHROMED ROD \ STILO CROMATO		C40 Chrom.	205.3	1642.4	TORNECHINO
04	8	PING PISTON \ ANELLO PISTONE		C40	212	1189.6	TORNECHINO
03	8	FRONT EXTREMITY \ ESTREMITA' ANTERIORE		Fe 510 C	488	469.5	TORNECHINO
02	8	CYLINDER BODY \ TUBO CILINDRO		Fe 510 C	267.6	2140.8	TORNECHINO
01	8	Rear CLOSING FLANGE \ FONDELLO		Fe 490	35.9	287.2	TORNECHINO
POS.	0.77	DESCRIPTION	COO.	MATERIAL	UNIT	WEIGHT	NOTES

2					
1					
0	20/06/02	FIRST ISSUE	MENCHINI	BASSO	LONGOBARDI
REV.	DATA	REV. GIUSTI	ESABENE	CHICCHIO	ALFONSO

DEAL

STRADDLE CARRIER

SC 720 - 32

STEERING LOSS

	STEERING JACKS
Model	HYDRAULIC JACKS #p280/#s140/STROKE 1360

HYDRAULIC JACKS W/200/15140/STROKE 1500			
SubCharles Inc.	Scale	2-3	Sheet
			of

---	12	1	1
Dis	Formel		

File	TO6MEANFO01.dwg	Version	A0
Job No.		Sub Job	
		Lib	

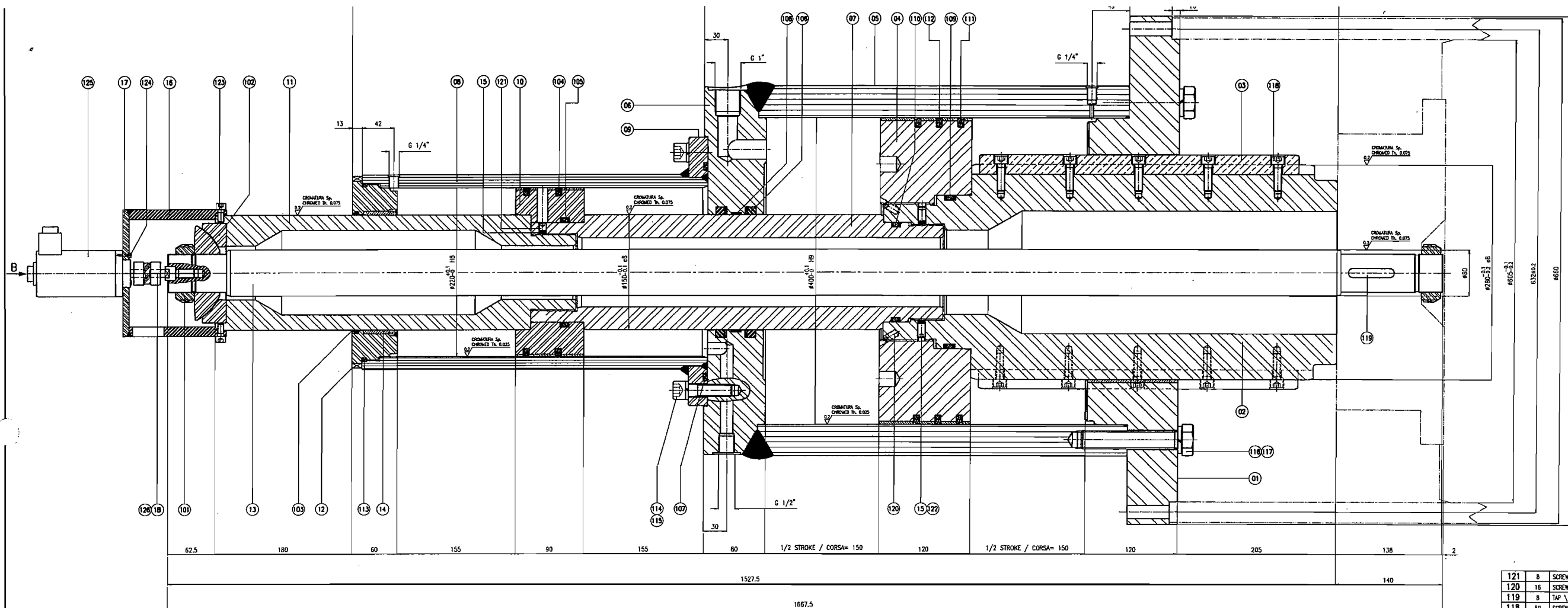
JOB NO.	Seq. No.	Mo.
- 6 0 0 3 1 1	- 0 6 0 3 5 2	- - - - -

File No.	Dep.	Doc. Type	Port.	Mr.	Acc.
----------	------	-----------	-------	-----	------

T	0	6	M	E	A	N	F	-	0	0	1	0
---	---	---	---	---	---	---	---	---	---	---	---	---

KIEWIT / ECI / MANSON, IV

KIEWIT / FCI / MANSON JV

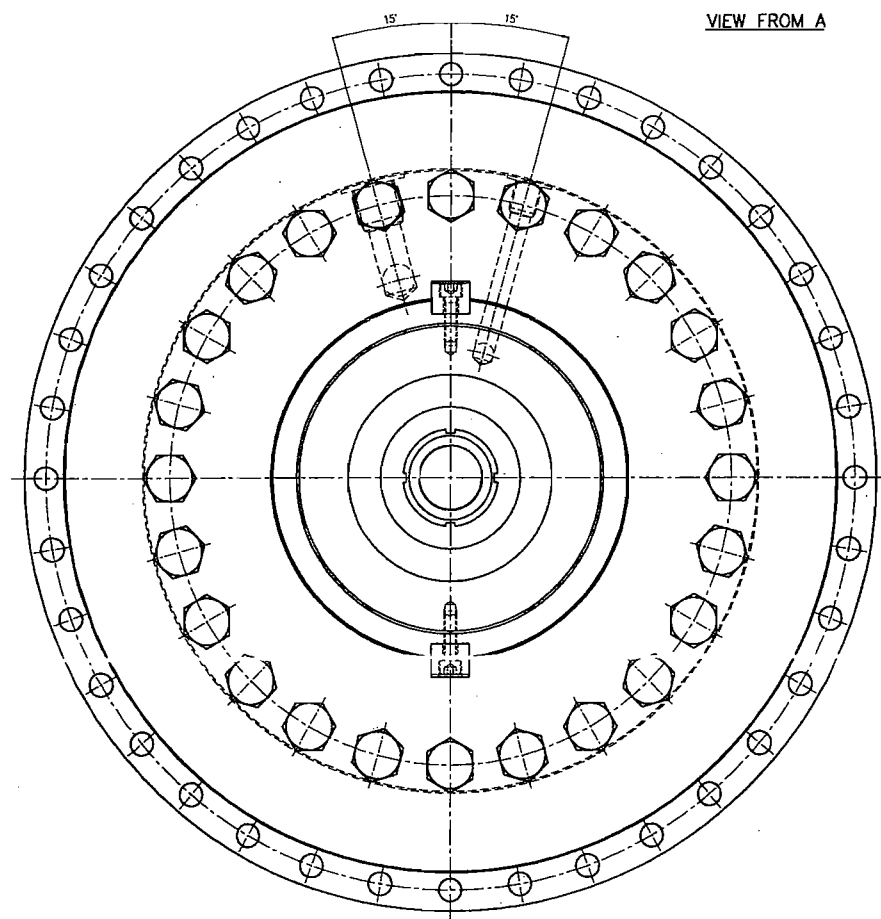


TECNICHE DI LAVORO	
First Bore: #400 mm HB	
Mechanical Rod: #280 mm HB	
Second Bore: #220 mm HB	
Hydraulic Rod: #150 mm HB	
Hydraulic Stroke: 1150 mm	
Pushing Force: 3000 kN	
Pushing Section: 1079.37 cm ²	
Reentering Section: 203.31 cm ²	
Ratio PS / RS: 1 : 5.3	
Max Pressure: 28 MPa	
Test Pressure in push: 35 MPa	
Test pressure in return: 20 MPa	

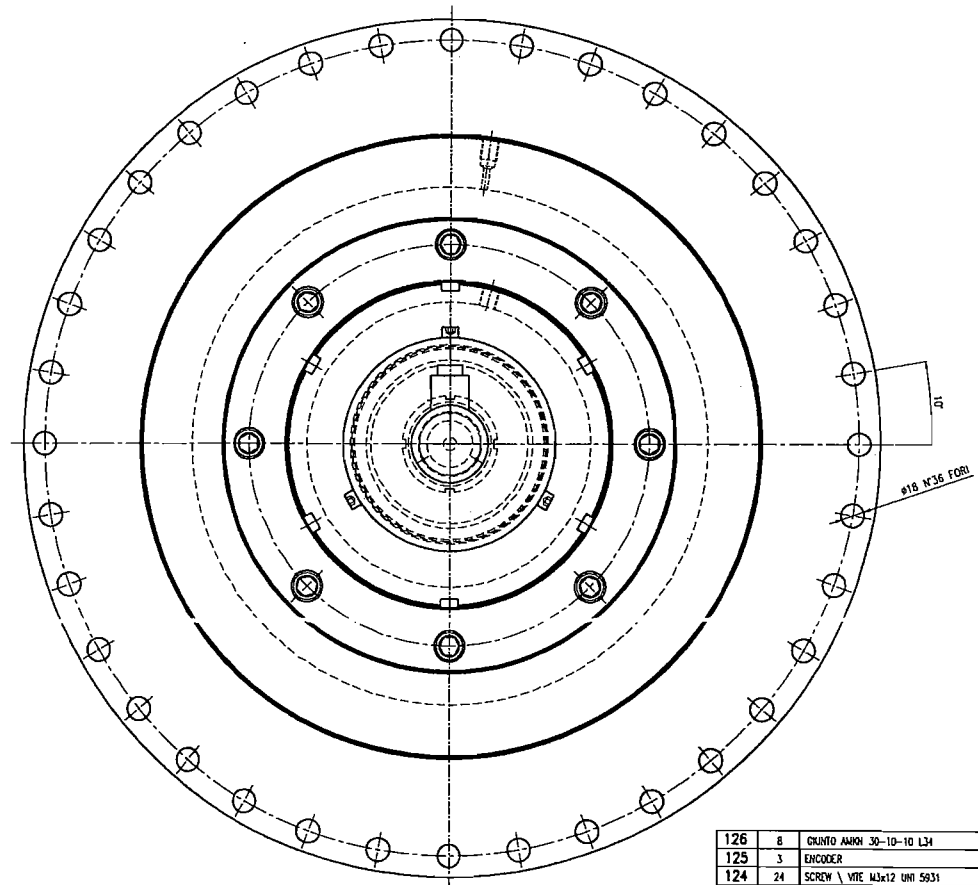
MARK F200
NR. PECE 8
UNIT WEIGHT 850 Kg
TOTAL WEIGHT 7600 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

TOTAL WEIGHT = 7344 Kg



VIEW FROM A



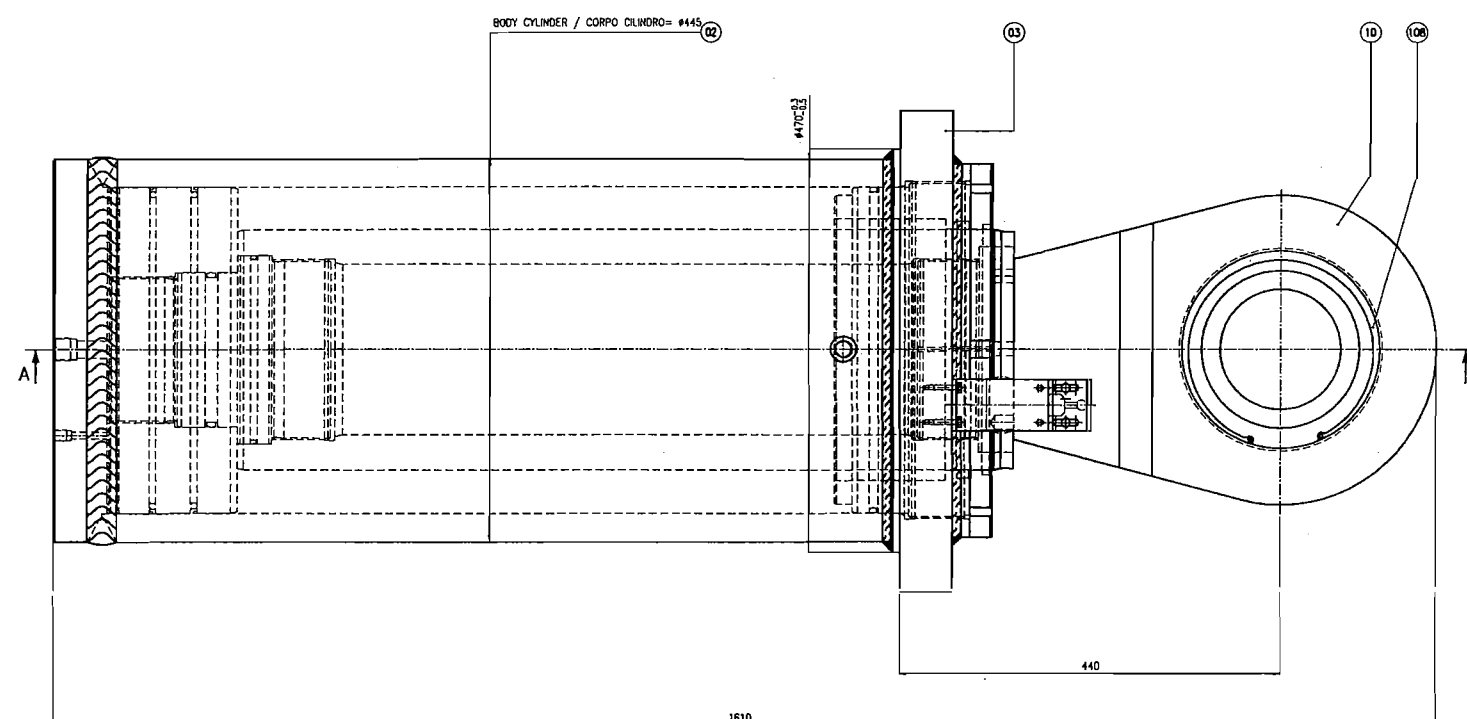
VIEW FROM B

121	8	SCREW \ GRANO STEL M10x12 UNI 5923	8.8			CONAL
120	16	SCREW \ GRANO STEL M10x15 UNI 5923	8.8			CONAL
119	8	TAP \ LINGUETTA A-12x8x50 UNI 8604				CONAL
118	80	SCREW \ VITE TCI M16x35 UNI 5931	8.8			CONAL
117	192	WASHER \ RONDELLA ELASTICA-DIN 7980-24				CONAL
116	192	SCREW \ VITE TE M14x130 UNI 5739	10.9			CONAL
115	64	WASHER \ RONDELLA ELASTICA-DIN 7980-16				CONAL
114	64	SCREW \ VITE TCI M16x60 UNI 5931	8.8			CONAL
113	8	EXTREMITY O-RING \ O-RING PER TESTATA	OR 372			POLYFAC
112	8	ANTERIOR PISTON SEAL \ GUARNIZIONE PISTONE ANTERIORE	E/GR-4000 A			POLYFAC
111	16	ANTERIOR PISTON SEAL \ GUARNIZIONE PISTONE ANTERIORE	E/GR-4000 B			POLYFAC
110	8	INTERMEDIATE ROD O-RING \ O-RING STELO INTERMEDIO	OR 426+BR			POLYFAC
109	8	ANTERIOR PISTON O-RING \ O-RING PISTONE ANTERIORE	OR 882+2BR			POLYFAC
108	8	PISTON GUIDE \ PASTIGLIA DI GUIDA	1/2HR-150			POLYFAC
107	8	FLANGE O-RING \ O-RING PER FLANGIA	OR 450			POLYFAC
106	16	INTERMEDIATE FLANGE SEAL \ GUARNIZIONE FONDELLO	B-66950/1			POLYFAC
105	8	POSTERIOR PISTON O-RING \ O-RING PISTONE POSTERIORE	OR 430+BR			POLYFAC
104	16	POSTERIOR PISTON SEAL \ GUARNIZIONE PISTONE POSTERIORE	E/GR-2200 B			POLYFAC
103	8	WIPER SEAL \ RASCHIATORE	WTF-1500			POLYFAC
102	8	AXIAL SPHERICAL BEARING \ RUOTA SFERICA ASSIALE	GE-50-AH			ELGES
101	16	LOCK NUT \ CHIERA DI BLOCCAGGIO M50x1.5	KMT 10			SKF
18	8	PIVOT \ PERNO #18x59	Fe 510	0.06	0.48	
17	8	COVER \ COPRICHIO #165 Sp.8	Fe 510	1.2	9.6	
16	8	PIPE \ TUBO #168.3/140x128	Fe 510	5.7	45.6	
15	24	COPPER LOZENGHE \ PASTIGLIA #7.5 H=3	RAMME			
14	8	BROUZE RING GUIDE ROD \ BROUZZA GUIDA STELO	Br. B14 Centr.	1	8	TOSMECHFO02
13	8	INTERNAL SHAFT \ ASTA INTERNA	C43 Chrom.	37.2	297.6	TOSMECHFO02
12	8	POSTERIOR CYLINDER BODY \ CILINDRO POSTERIORE	C40	10	80	TOSMECHFO02
11	8	POSTERIOR CYLINDER BODY STELO CRAMATO POSTERIORE	C43 Chrom.	33.1	264.8	TOSMECHFO02
10	8	POSTERIOR CYLINDER BODY \ CILINDRO POSTERIORE	Fe 510+B14	15.7	125.6	TOSMECHFO02
09	8	FLANGE \ FLANGIA	Fe 510	9	72	TOSMECHFO02
08	8	POSTERIOR CYLINDER BODY \ TUBO CILINDRO POSTERIORE	Fe 510 C	44	352	TOSMECHFO02
07	8	INTERMEDIATE CRAMMED ROD STELO CRAMATO INTERMEDIO	Fe 510 C Chrom.	41.6	332.8	TOSMECHFO02
06	8	INTERMEDIATE FLANGE \ FONDELLO INTERMEDIO	Fe 510	88.4	707.2	TOSMECHFO02
05	8	ANTERIOR CYLINDER BODY \ TUBO CILINDRO ANTERIORE	Fe 510 C	214.5	1716	TOSMECHFO02
04	8	ANTERIOR PISTON \ PISTONE ANTERIORE	Fe 510+B14	69.7	557.6	TOSMECHFO02
03	16	BROUZE TAP \ LINGUETTA	BROUZE AL SUDO	2.7	43.2	TOSMECHFO02
02	8	ANTERIOR CYLINDER BODY STELO CRAMATO ANTERIORE	C40 Chrom.	164.4	1315.2	TOSMECHFO02
01	8	FRONT FLANGE \ FLANGIA ANTERIORE	Fe 510+B14	157	1256	TOSMECHFO02

POS.	QTY	DESCRIPTION	COO.	MATERIAL	UNIT	WEIGHT	NOTES
2	10/09/02	GENERAL REVISION-POS. 2,13,16,17,18	MENHNS	GERMANO	BONASSI		
1	03/07/02	GENERAL REVISION-POS. 108, 116	MENHNS	CUCCARDI	BONASSI		
0	27/06/02	FIRST ISSUED	MENHNS	CUCCARDI	BONASSI		

DEAL		STRADDLE CARRIER SC 720 - 32	
EQUILISING HYDRAULIC JACKS		JACKS #400/#280+#220/#150 STROKE ±150	
Scale: 1:2	Sheet: 1	1	
Form: AO			
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORISATION			
KIEWIT / FCI / MANSON JV			

126	8	QUINTO AMON 30-10-10 L34		0.1	0.8	RODOLEX
125	3	ENCODER				ARDEA
124	24	SCREW \ VITE M3x12 UNI 5931	8.8			CONAL
123	24	SCREW \ VITE TCI M3x16 UNI 5931	8.8			CONAL



Technical Data \ Dati Tecnici
Pushing / Reamining force: 3000 KN
Main Bore: Ø380 mm H9
Rod: Ø280 mm H8
Stroke: 700 mm
Working pressure: 26,5 MPa
Test pressure: 30 MPa
Pushing Section: 1133,34 cm ²
Reamining Section: 518,36 cm ²
Ratio PS / RS: 1 : 2,18

MARK F400
HR. PIECES 4
UNIT WEIGHT 1200 K
TOTAL WEIGHT 4800 K

TOTAL WEIGHT = 4554.2 Kg

FINAL PAINTING :
ENAMEL RED RAL 3000

116	4	LIMIT-SWITCH 7722			RAVASI	0.2	0.8	
115	16	WASHER \ RONDELLA 6.6x12.5 UNI 6592			-			COMAL
114	16	SCREW \ VITE TE M6x20 UNI 5639			8.8			COMAL
113	20	PASTIGLIA M12x4			RAMÉ			COMAL
112	8	SCREW \ GRANO STEI M16x20 UNI 5923			8.8			COMAL
111	24	SCREW \ GRANO STEI M10x12 UNI 5923			8.8			COMAL
110	12	SCREW \ GRANO STEI M8x12 UNI 5923			8.8			COMAL
109	4	SPHERICAL BEARING \ SNOD0 SPERICO			GE-140-70-B3			ELOS
108	8	SEIGER RING \ ANELLO SEIGER			UNI 7437-236			COMAL
107	4	TAMPON O-RING \ O-RING PER TAMPONE			OR 370 x BK			POLYPAC
106	4	EXTREMITY O-RING \ O-RING PER TESTATA			OR 364			POLYPAC
105	4	WIPER SEAL \ MASCHETTORE			WTF-2800			POLYPAC
104	4	EXTREMITY O-RING \ O-RING D'ESTREMITA'			OR 458x18			POLYPAC
103	4	ROD SEAL \ GUARNIZIONE STELO			ESC-3002808			MIROS
102	8	PISTON O-RING \ O-RING PER PISTONE			OR 628x26R			POLYPAC
101	4	PISTON SEAL \ GUARNIZIONE PISTONE			E/SP 3400 R			POLYPAC

12	4	ANGOLAR \ ANGOLARE	Fe 360	0,5	2	TAGHECCHIO
11	4	ANGOLAR DI SUPPORTO \ ANGOLARE DI SUPPORTO	Fe 360	0,33	1,4	TAGHECCHIO
10	4	ANGOLARE CYLINDER ATTACK/VITICO DI SUPPORTO	Fe 510	9,22	368,8	TAGHECCHIO
09	4	PISTON \ PISTONE	Fe C10 B	103,7	414,8	TAGHECCHIO
08	4	FRONT PISTON \ PISTONE ANTERIORE	CA 40	41,8	167,2	TAGHECCHIO
07	4	WATER SUPPORT PISTON \ PISTONE POSTERIORE	CA 40	58,2	231,2	TAGHECCHIO
06	4	CHARGED ROD \ STILO CARICATO	Fe C10	206,2	824,8	TAGHECCHIO
05	4	BROCKE ROD GUIDE BODY/BROCKE GUIDA STILO	Bv. 814 Genti	12,7	50,8	TAGHECCHIO
04	4	FRONT EXTRIMITY \ ESTREMITA' ANTERIORE	Fe 510	64	272	TAGHECCHIO
03	4	FRONT FLANGE \ FLANGIA ANTERIORE	Fe 510	199	636	TAGHECCHIO
02	4	CYLINDER BODY \ TUBO CILINDRO	Fe 510 C	323	1292	TAGHECCHIO
01	4	BEAR CRANK (L) INSET \ CROCIERINO	Fe 510 C	22,8	911,2	TAGHECCHIO

POS.	QTY	ITEM	DESCRIPTION	DO.	1E 510	12E 510	23E 510	UNRECORDED
					MATERIAL	LABOR	OVERHEAD	NOTES
2								
1								
0	26/06/02	FIRST ISSUED	KENCHEN	S. GERMANO				PROG

DEAD

STRADDLE CARRIER

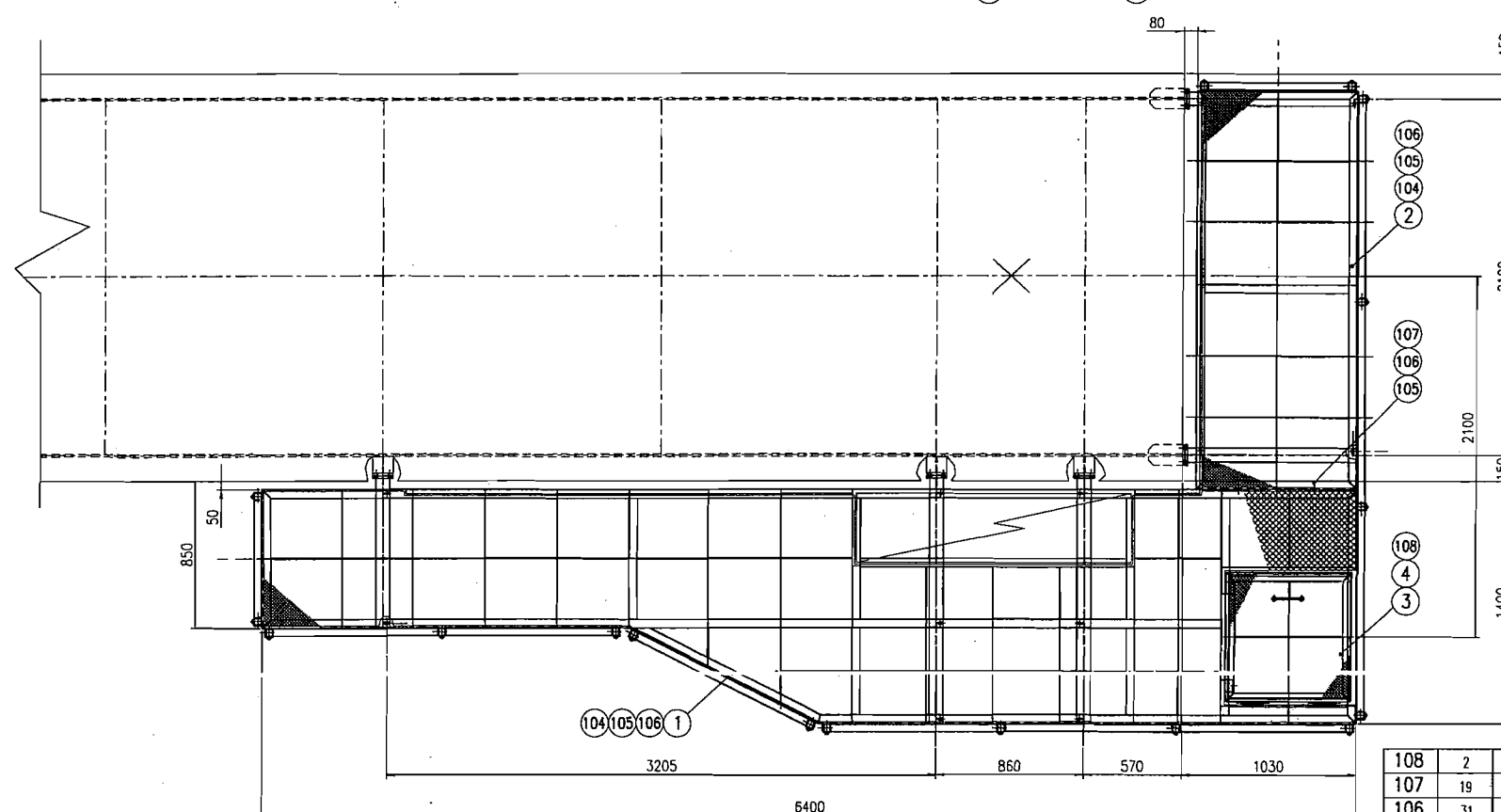
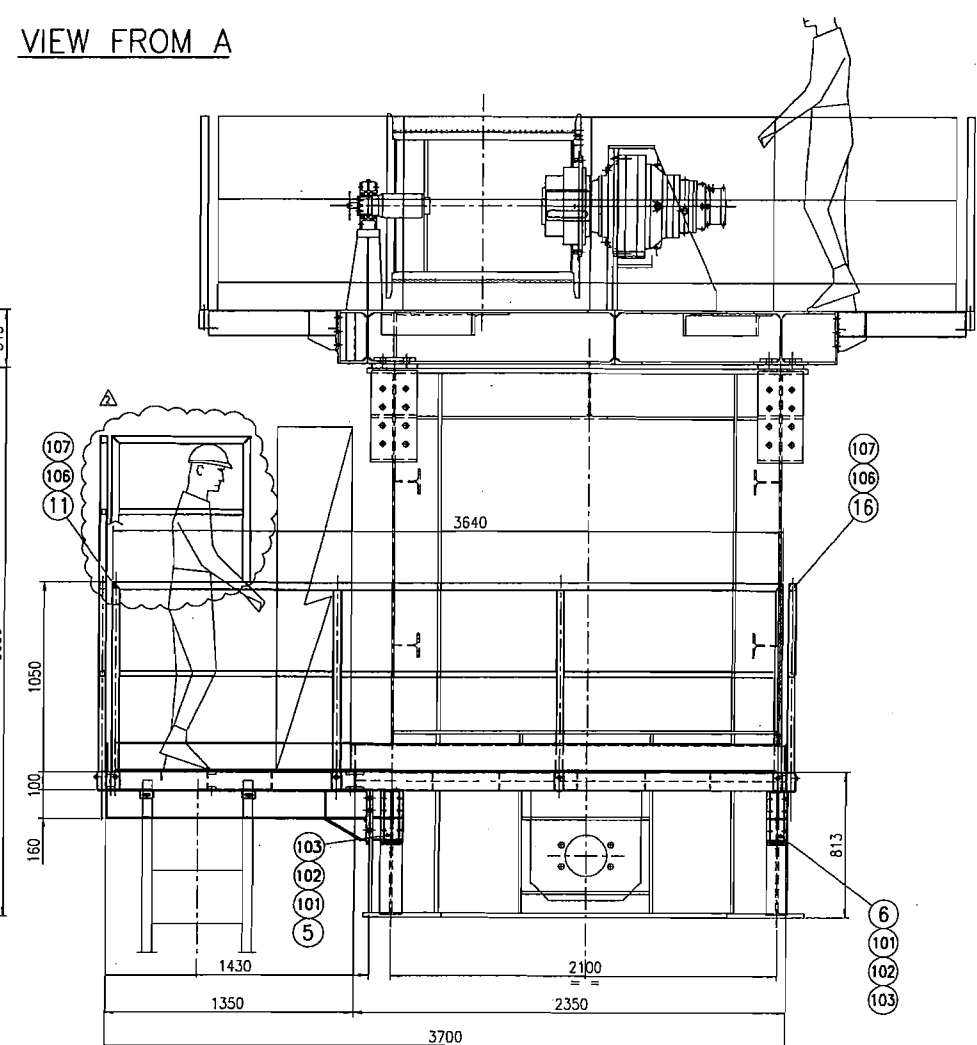
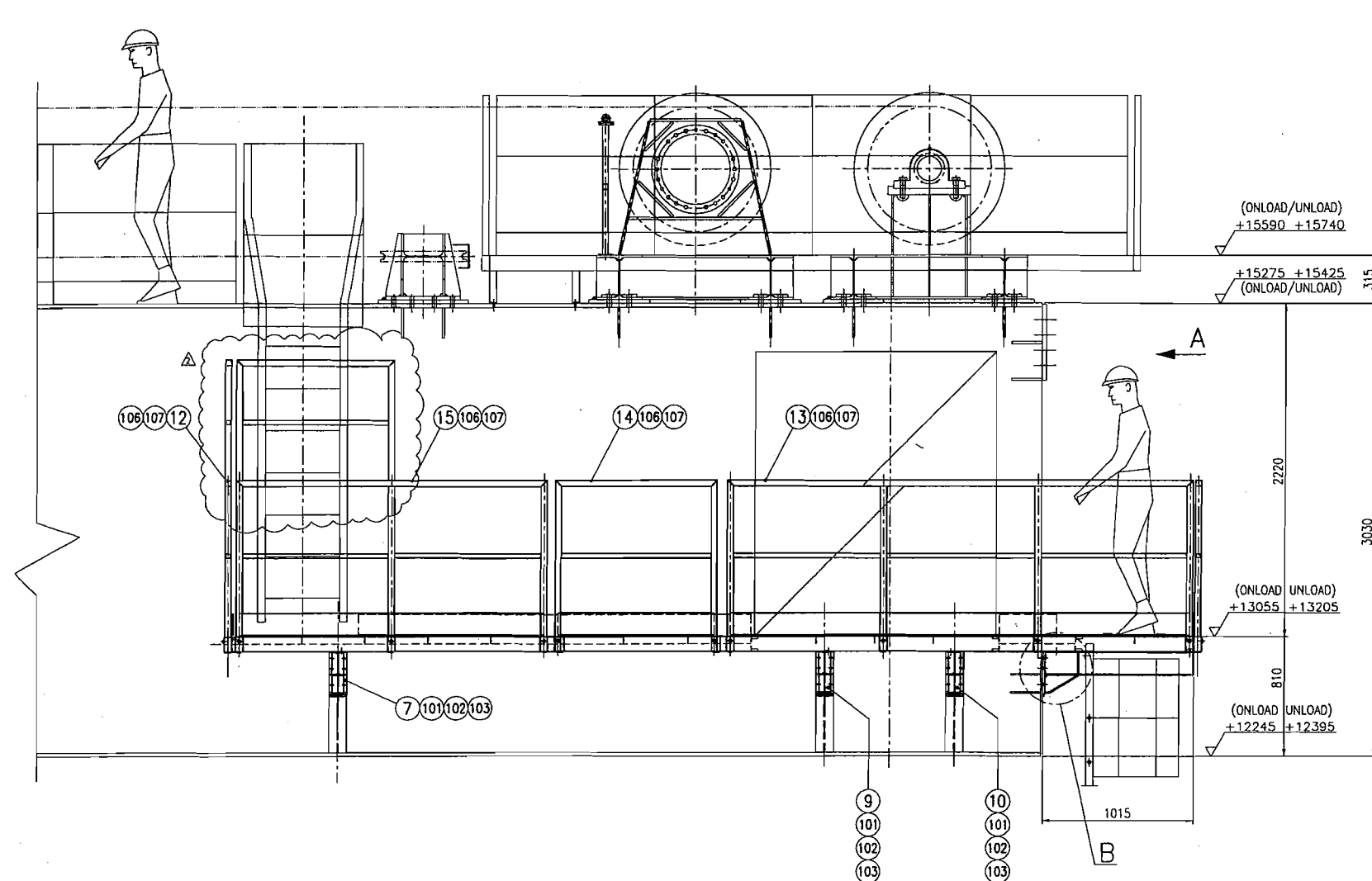
SUPPORT JACKS FOR WHEELS GROUP

HYDRAULIC JACKS #p380/#s280/STROKE 700

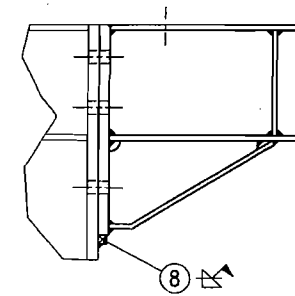
Inks, a Division of International Business Machines Corporation 3501 Market Street San Francisco, California 94114 Tel. (415) 762-1000 Telex: 9810	Inks, a Division of International Business Machines Corporation 3501 Market Street San Francisco, California 94114 Tel. (415) 762-1000 Telex: 9810	REEL: HYDRAULIC JACKS #0380/#5280/STROKE 700 Serials: Inc. 1.3 Term: A Date: 1 1
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT THE WRITTEN AUTHORIZATION OF INKS		TOGEMEN004.dep File No. 1-600311 Serial: 1-6060352 Date: 1-60 Title: 1-60 Part: 1-60 Page: 1-60

QID: KIEWIT / FCI / MANSON JV

Page



DETAIL B (Typical)
scale 1:5



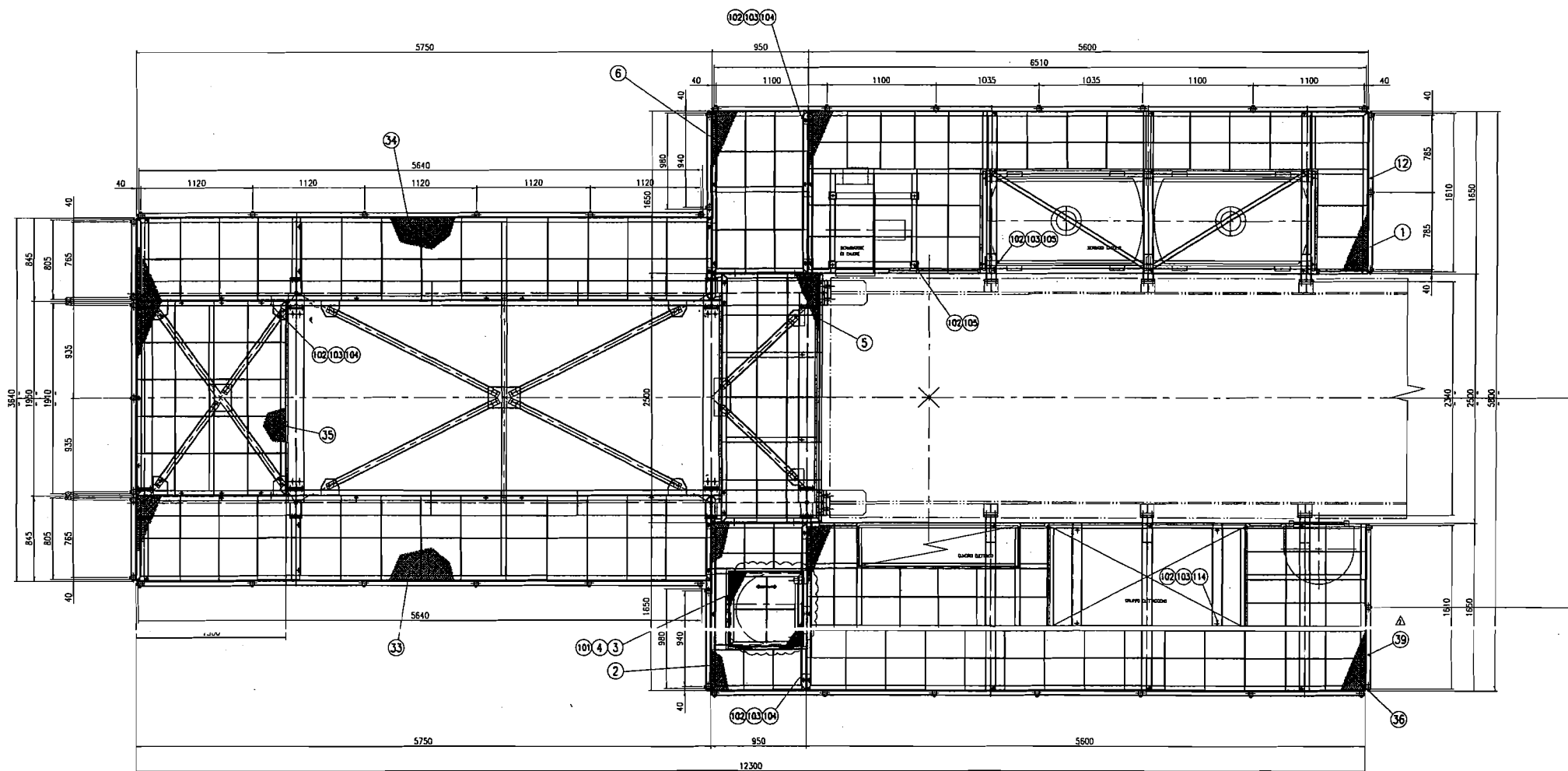
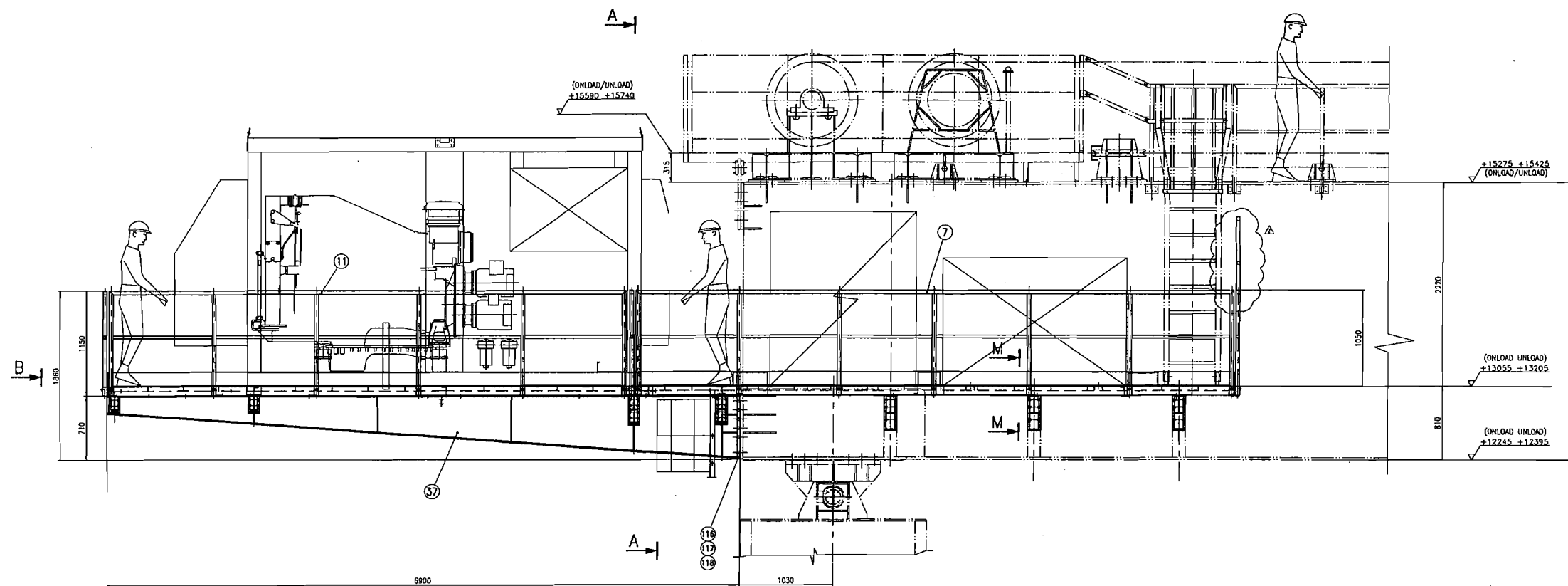
TOTAL WEIGHT = 720 Kg

108	2	COTTER PIN #3.2x20 UNI 1336	*	*	*	*	*
107	19	SCREW M12x30 UNI 5739	*	8.8	*	*	*
106	31	NUT M12 UNI 5588	*	6S	*	*	*
105	14	WASHER 13 UNI 6592	*	*	*	*	*
104	12	SCREW M12x35 UNI 5739	*	8.8	*	*	*
103	30	NUT M16 UNI 5588	*	6S	*	*	*
102	30	WASHER 17 UNI 6592	*	*	*	*	*
101	30	SCREW M16x50 UNI 5739	*	8.8	*	*	*

16	1	GUARD RAIL 910x1150	H206	*	15.5	15.5	
15	1	GUARD RAIL 2070x1950	H205	*	41.4	41.4	
14	1	GUARD RAIL 1190x1150	H204	*	18	18	
13	1	GUARD RAIL 3100x1150	H203	*	42.5	42.5	
12	1	GUARD RAIL 760x1950	H202	*	24.4	24.4	
11	1	GUARD RAIL 3640x1150	H201	*	47	47	
10	1	BRACKET L=1430 IPE 160 LEFT PIECE	H110	*	29	29	
9	1	BRACKET L=1430 IPE 160 RIGHT PIECE	H109	*	29	29	
8	5	SMALL BLOCK 12x12x120	H108	*	0.14	0.7	
7	1	BRACKET L=880 IPE 160	H107	*	20.5	20.5	
6	1	BRACKET L=1015 IPE 160 LEFT PIECE	H106	*	22.5	22.5	
5	1	BRACKET L=1015 IPE 160 RIGHT PIECE	H105	*	22.5	22.5	
4	2	PIN #10 L=132	H104	*	0.2	0.4	
3	1	TRAP DOOR 740x740	H103	*	21	21	
2	1	WALKWAY 2350x950	H102	*	97	97	
1	1	WALKWAY 6400x1350	H101	*	286	286	
POS.	Q.TY	DESCRIPTION	MARK	MATERIAL	UNIT	WEIGHT	NOTES
2	27/08/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO	RIBIS		
1	29/07/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO	RIBIS		
0	05-07-02	FIRST ISSUE	EsseTre	G.Cucchiaro	G.Ribis		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED		

DEAL
Sede e Stabilimento
13050-Prato di Fiume (GO)-Italy
Tel. +39 043 607 900
Fax +39 043 607 902
e-mail: deal@deal.it

REFERENCE: STRADDLE CARRIER
SC 720 - 32
OBJECT: MAIN GIRDER
TITLE: FRONT SIDE WALKWAYS GENERAL ASSEMBLY
Substitutes for: --- Scale: 1:20 Sheet 1 of 1
Formal A1
Job No. T06DMADH001_2.DWG
Sub.J.Nr. -060787
Fab. Nr. Dep. Doc. Type Part. Nr. Rev.
T06DMADH-0012
CLIENT: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT



TOTAL WEIGHT = 4170 Kg Δ

[illegible]

A	39	1	GUARD RAIL	1610x1950	H407	45	45
	38	1	BRACKET	L=6900 LEFT PIECE	H802	650	650
	37	1	BRACKET	L=6900 RIGHT PIECE	H801	650	650
	36	1	WALKWAY	5600x1650	H604	376	376
	35	1	WALKWAY	1950x1500	H803	113	113
	34	1	WALKWAY	5750x945 LEFT PIECE	H602	186.5	186.5
	33	1	WALKWAY	5750x945 RIGHT PIECE	H601	186.5	186.5
	32	6	SMALL BLOCK	12x12x140	H520	0.15	0.9
	31	8	SMALL BLOCK	12x12x160	H519	0.2	1.6
	30	6	SMALL BLOCK	12x12x120	H518	0.13	1
	29	1	BRACKET	L=630 LEFT PIECE	H517	12	12
	28	1	BRACKET	L=630 RIGHT PIECE	H516	12	12
	27	2	BRACKET	L=1710	H515	34.1	68.2
	26	1	BRACKET	L=630 LEFT PIECE	H514	12	12
	25	1	BRACKET	L=630 RIGHT PIECE	H513	12	12
	24	1	BRACKET	L=1820	H512	60.8	60.8
	23	3	BRACKET	L=1730 LEFT PIECE	H511	50.6	151.8
	22	3	BRACKET	L=1730 RIGHT PIECE	H510	50.6	151.8
	21	1	BRACKET	L=1820	H509	72.8	72.8
	20	1	BRACKET	L=1820	H508	76.8	76.8
	19	1	BRACKET	L=1710 LEFT PIECE	H507	34.1	34.1
	18	1	BRACKET	L=1710 RIGHT PIECE	H506	34.1	34.1
	17	1	BRACKET	L=1820	H505	77.8	77.8
	16	1	BENT SHAPED	100x50x4 = 2000	H504	15.5	15.5
	15	4	EQ. ANGLE	60x5 = 1920	H503	8.8	35.2
	14	4	EQ. ANGLE	60x5 = 1035	H502	4.7	18.8
	13	4	EQ. ANGLE	60x5 = 2182	H501	13.7	13.7
A	12	1	GUARD RAIL	1610x1150	H406	26.2	26.2
	11	2	GUARD RAIL	5640x1150	H405	72.7	145.4
	10	1	GUARD RAIL	1910x1150	H404	14.2	14.2
	9	2	GUARD RAIL	980x1150	H403	16.4	32.8
	8	2	GUARD RAIL	805x1150	H402	14.8	29.6
	7	2	GUARD RAIL	6510x1150	H401	84.2	168.4
	6	1	WALKWAY	950x1650	H306	69	69
	5	1	WALKWAY	100x2500	H305	117	117
	4	2	FIN	ø10x132	H304	0.2	0.4
	3	1	TRAP DOOR	740x740	H303	21	21
	2	1	WALKWAY	950x1650	H302	66	66
	1	1	WALKWAY	5600x1650	H301	374	374

POS.	QTY	DESCRIPTION	MARK	MATERIAL	UNIT	QTY	NOTES
2	28/08/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO			RBS
1	23/07/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO			RBS
0	23-07-02	FIRST ISSUE	Esselre	G. Cucciaro			6/3/02
REV.	DATE	REV. OBJECT	BY WHOM	ON WHICH			APPROVED

DEAL

STRADDLE CARRIER

MAIN GIRDER

FIG. 1
REAR SIDE POWER WALKWAYS GENERAL ASSEMBLY

Subsidiary for:	Scale:	Sheet:	of:
	1:20		

1	2
File: TO5D1AD1H002A 2 DMC	Format: AO

TODD RACHAUZK@2.ORG						AG											
Job No.						Sub Job						Mile					

-	6	0	0	3	1	1	-	0	6	0	7	8	7	-	-	-	-	-	-	-
Feb. No.						Dob.		Dir. Time				Port.		No.		Rev.				

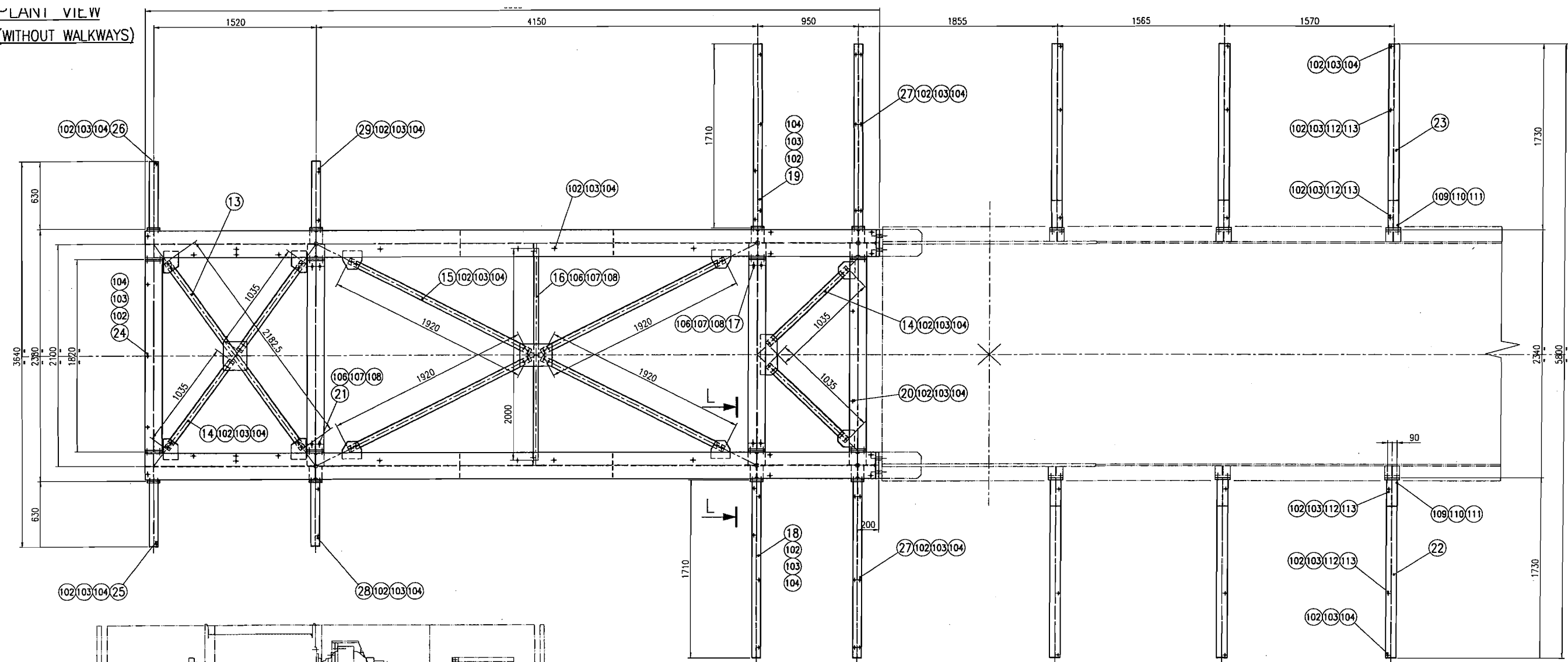
TO	6	DM	AD	H	-	0	0	2	2
----	---	----	----	---	---	---	---	---	---

100-443887-100

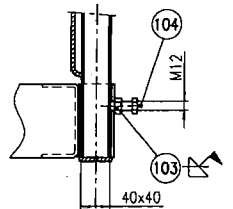
KIEWIT / FCI / MANSON JV

00000000000000000000

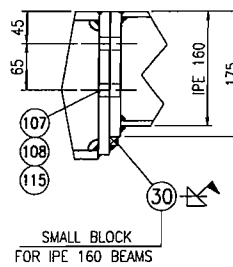
PLANT VIEW
(WITHOUT WALKWAYS)



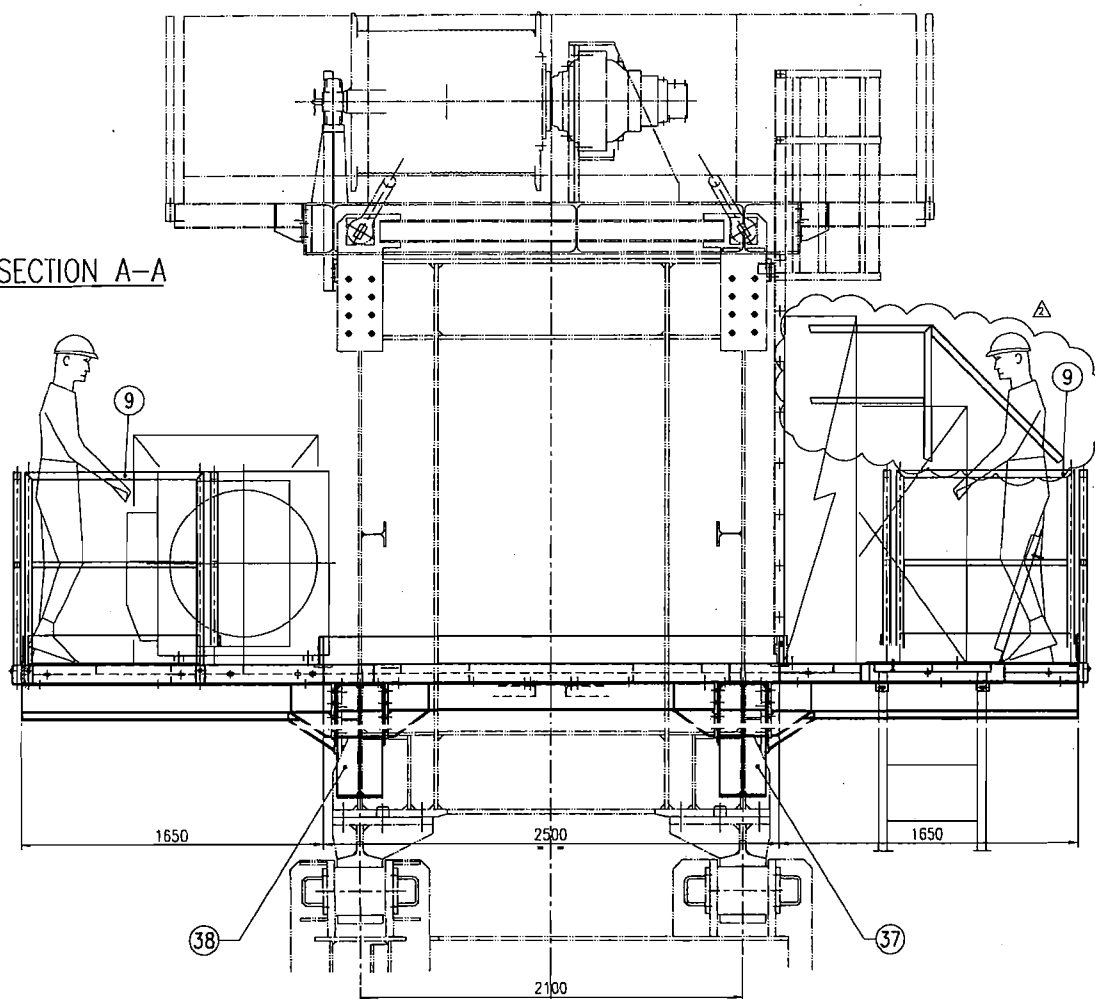
DET. "G"-TYPICAL
SC. 1:5



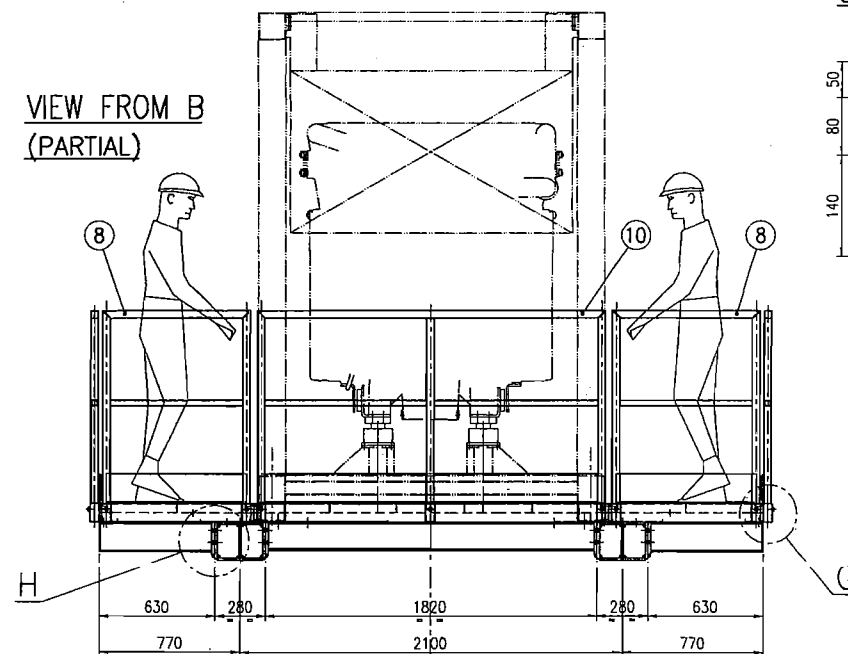
DET. "H"-TYPICAL
SC. 1:5



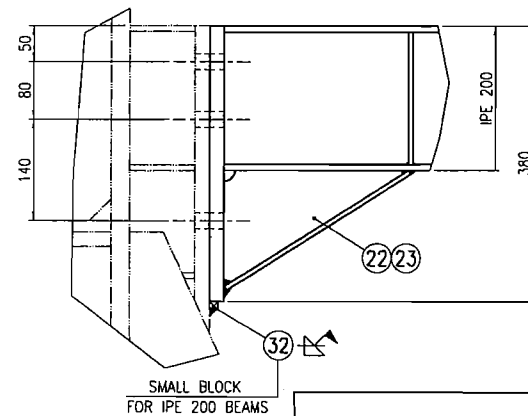
SECTION A-A



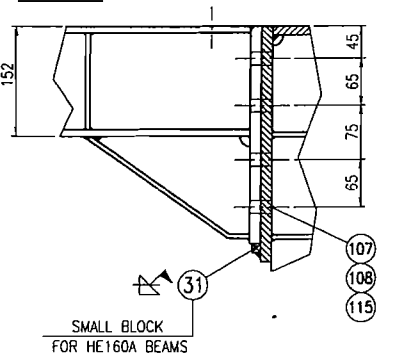
VIEW FROM B
(PARTIAL)



SECTION M-M(PARTIAL)
SC. 1:5



SECTION L-L (PARTIAL)
TURNED OF 90°
SC. 1:5

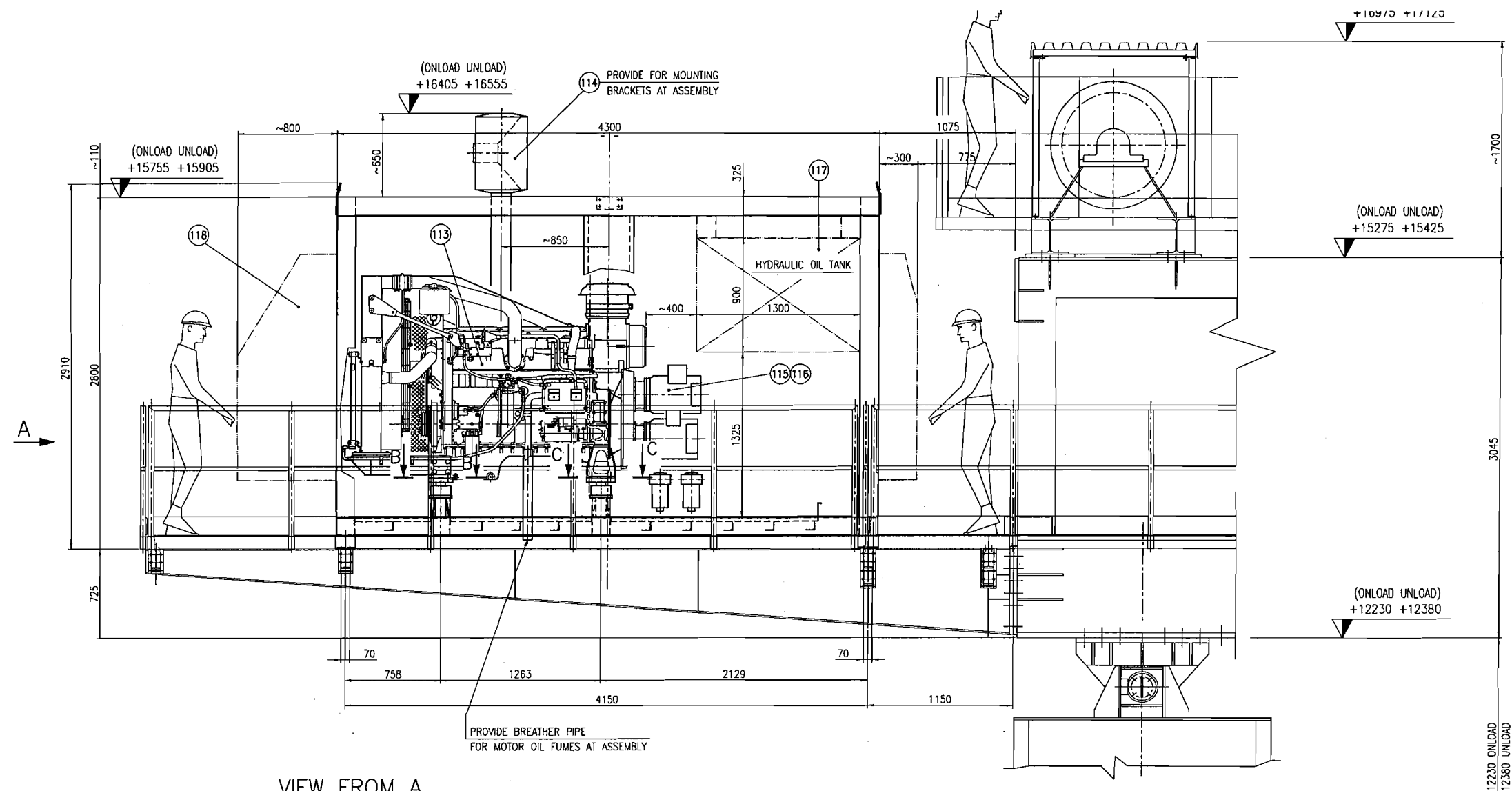


DEAL

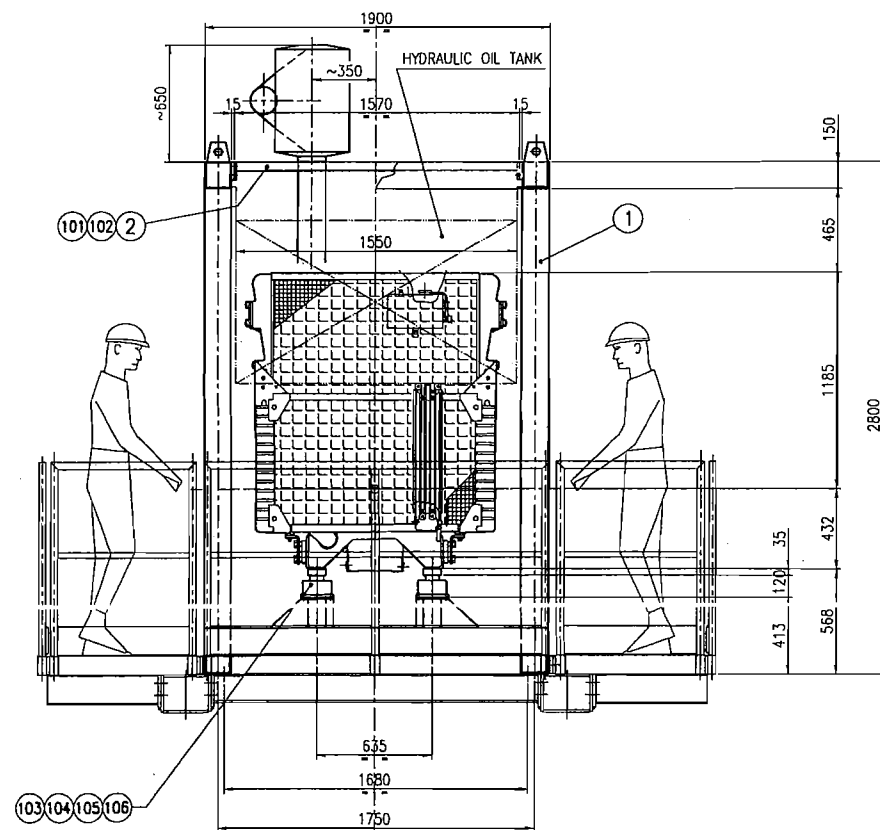
ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

REFERENCE:		STRADDLE CARRIER SC 720 - 32	
OBJECT:		MAIN GIRDER	
TITLE:		REAR SIDE POWER WALKWAYS (GENERAL ASSEMBLY)	
Substituted for:	Scale:	1:20	Sheet
File:	Format:	A1	2
Job No.:	Sub-Job No.:	11	7
10600311	060787	11	7
Fab. No.:	Dep.:	Doc. Type:	Part.:
106DMADH	-	002	2
CLIENT:		KIEWIT / FCI / MANSON JV	
PROJECT:		SKYWAY BRIDGE PROJECT	

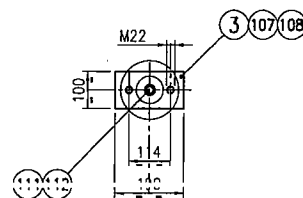
2	28/08/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO	RIBIS
1	29/07/02	REVISED WHERE INDICATED	S. GERMANO	S. GERMANO	RIBIS
0	23-07-02	FIRST ISSUE	EsseTre	G.Cucchiaro	G.Ribis



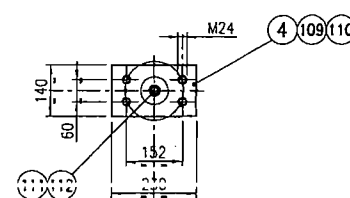
VIEW FROM A



SECTION B-B
scale 1:10



SECTION C-C
scale 1:10



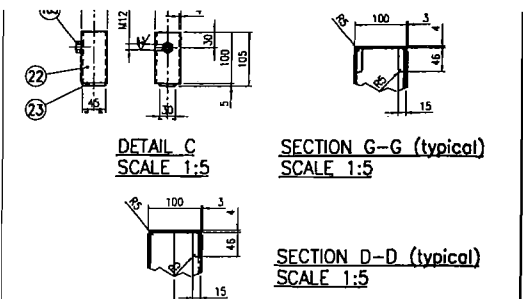
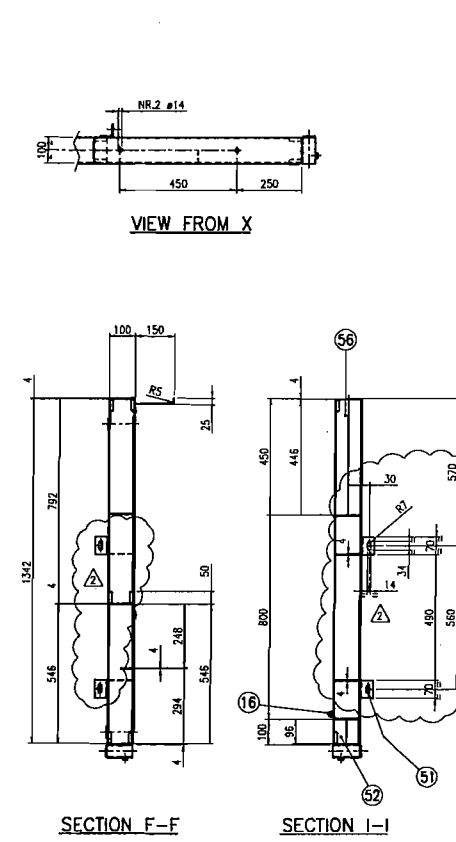
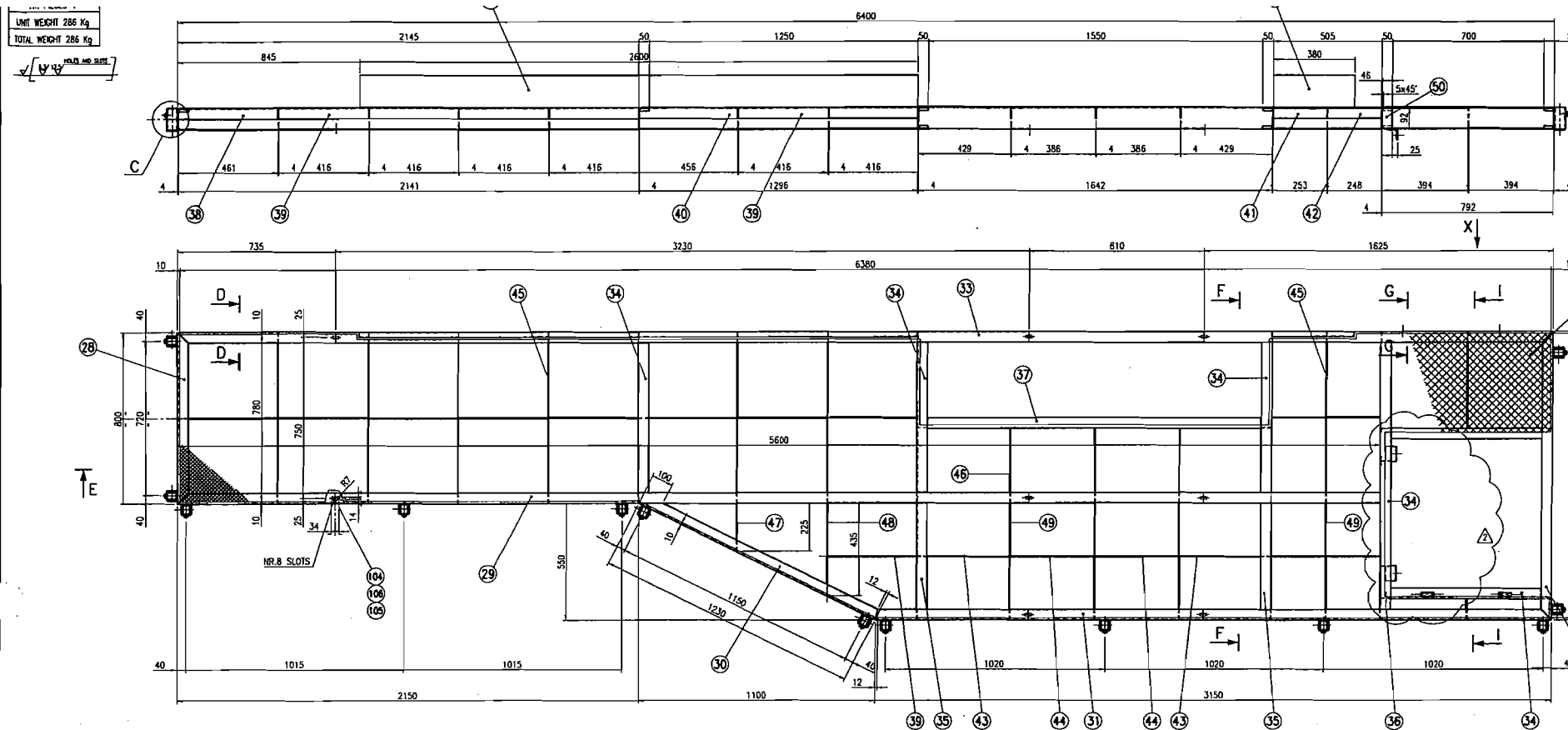
TOTAL WEIGHT = 6650 Kg

POS.	Q.TY	DESCRIPTION	MARK	MATERIAL	UNIT	WEIGHT	TOT.	NOTES
118	1	SOUNDPROOF PANELS CABIN			500	500		
117	1	HYDRAULIC OIL TANK			2000	2000		
116	3	HYDRAULIC PUMPS			100	300		
115	1	PUMP DRIVERS "BREVINI" TYPE BZ3-470			200	200		
114	1	EXHAUST SILENCER "COWL" TYPE TS60PR			45	45		
113	1	DIESEL MOTOR "CATERPILLAR" TYPE C-15 ATAAC			2250	2250		
112	4	WASHER 19 "SCHNORR"						
111	4	SCREW TC M18x50 UNI 5931		8.8				
110	8	WASHER 25 UNI 6592		8.8				
109	8	SCREW M24x50 UNI 5739		8.8				
108	4	WASHER 23 UNI 6592						
107	4	SCREW M22x50 UNI 5739		8.8				
106	16	NUT M14 UNI 5588		6S				
105	32	WASHER 15 UNI 6592						
104	16	SCREW M14x50 UNI 5737		8.8				
103	4	PUFFER "VIBROSTOP" TYPE AA/800/N			10	40		
102	8	WASHER 13 UNI 6592						
101	8	SCREW M12x25 UNI 5739		8.8				

POS.	Q.TY	DESCRIPTION	MARK	MATERIAL	UNIT	WEIGHT	TOT.	NOTES
4	2	PLATE 230x140x35	H704		8.8	17.6		
3	2	PLATE 190x100x35	H703		5.2	10.4		
2	1	BEAM 1570x100x50	H702		17.5	17.5		
1	1	FRAME 4300x1900x2800	H701		1255	1255		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED			
D	23-07-02	FIRST ISSUE	EsseTre	CUCCHIARO	RIBIS			

DEAL Sole e Stabilimento 13200-Portofino del Golfo (GE)-Italy Tel: +39 010 807 900 Fax: +39 010 807 901 e-mail: deal@deal.it	REFERENCE: STRADDLE CARRIER SC 720 - 32			
	OBJECT: MAIN GIRDER			
	TITLE: POWER GROUP - GENERAL ASSEMBLY			
	Substitutes for:	Scale: 1:20	Sheet: 1	Of: 1
	File: T06DMADH003.DWG	Format: A1		
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL WRITTEN AUTHORIZATION				
Job No:	Subj. No.	Mtr.		
- 6 0 0 3 1 1	- 0 6 0 7 8 7	- - - - -	- - - - -	
Fab. No.	Dep.	Doc. Type	Part.	
T 0 6	D M	A D H	-	
0 0 3 0				

CURR: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT



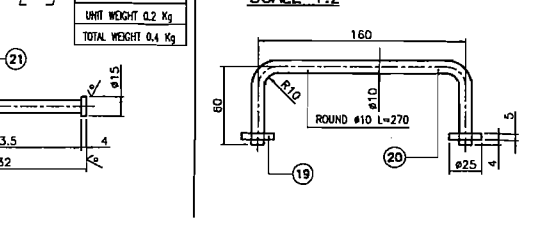
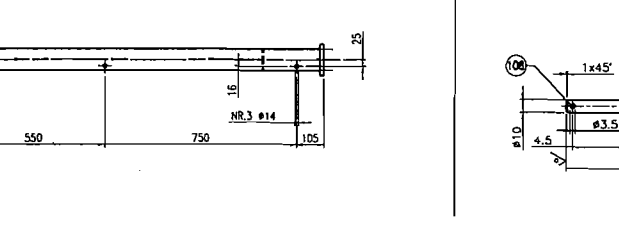
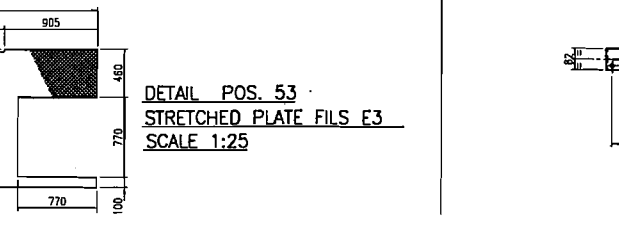
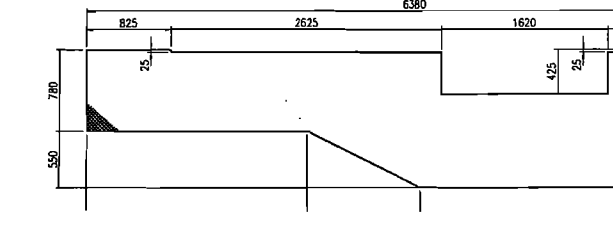
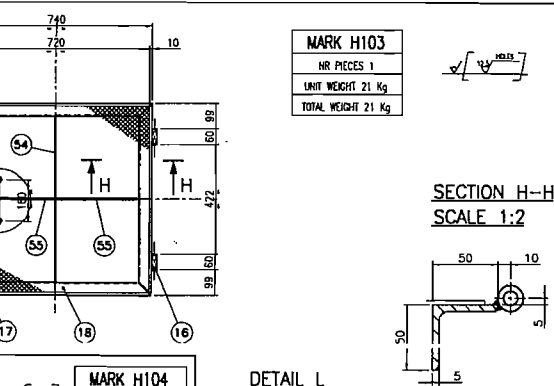
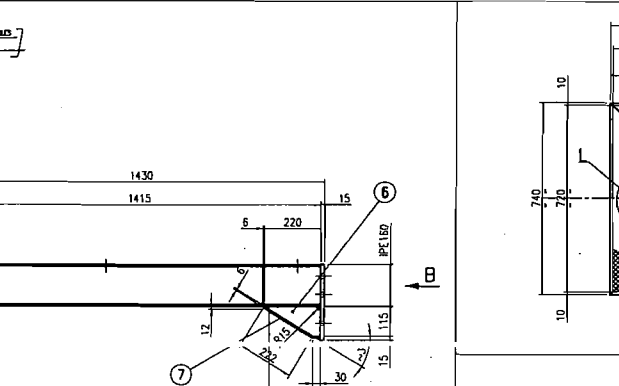
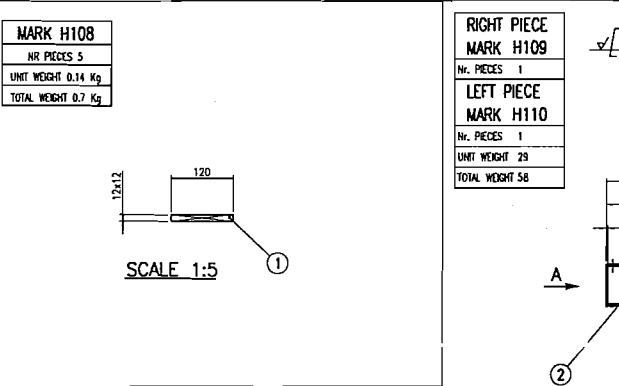
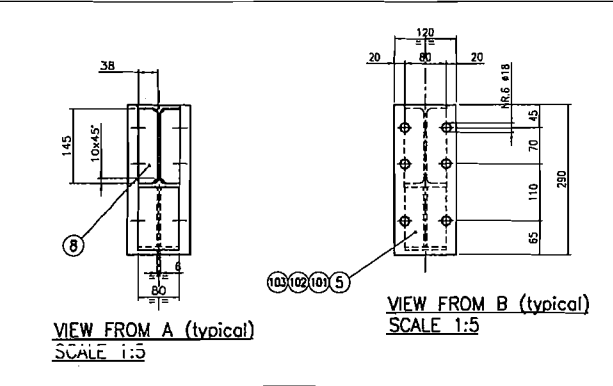
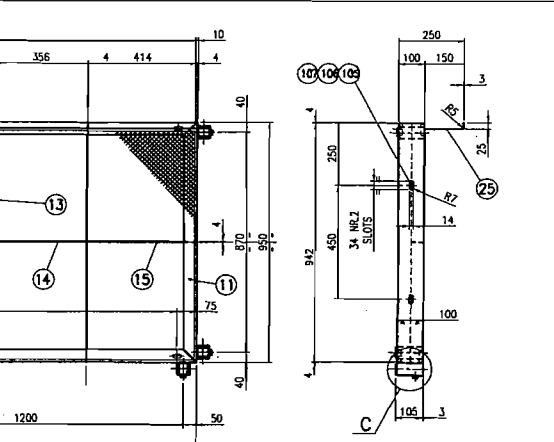
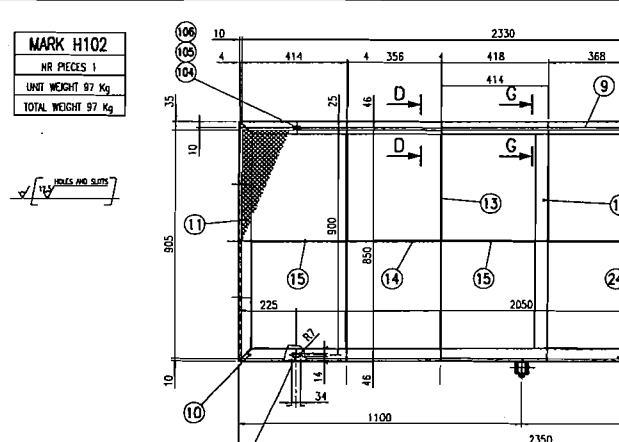
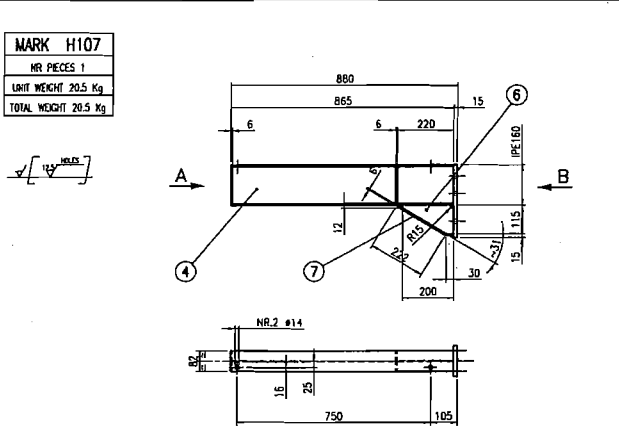
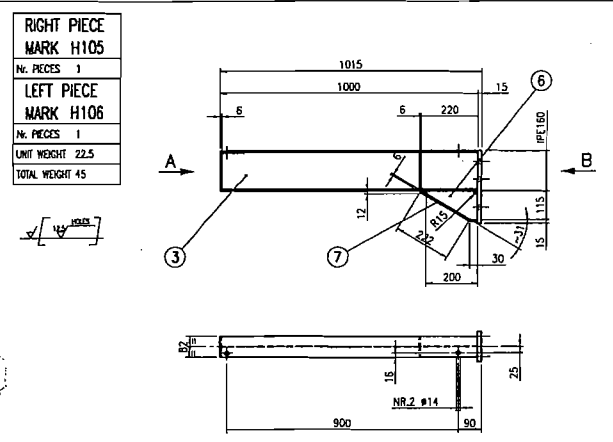
TOTAL WEIGHT = 540 Kg

FINAL PAINTING :
ENAMEL YELLOW RAL 1007

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

ITEM	DESCRIPTION	QTY	UNIT	WEIGHT (Kg)
108	2 CUTTER PH #3.220 UNI 1336	2		8.8
107	19 SCREW M12x30 UNI 5739	19		8.8
106	31 NUT M12 UNI 5588	31		8.8
105	14 WASHER 13 UNI 6592	14		8.8
104	12 SCREW M12x35 UNI 5739	12		8.8
103	30 NUT M16 UNI 5588	30		8.8
102	30 WASHER 17 UNI 6592	30		8.8
101	30 SCREW M16x50 UNI 5739	30		8.8

ITEM	DESCRIPTION	QTY	UNIT	WEIGHT (Kg)
56	1 PLATE 50x4 L=448 SHAPED	1		0.6
55	2 PLATE 50x4 L=318	2		0.5
54	1 PLATE 50x4 L=640	1		1
53	1 STRUT PLATE FILS E3 Th3 630x1330 SHAP	1		85
52	1 PLATE 50x4 L=96 SHAPED	1		0.15
51	2 ANGLE 50x50x5 L=70	2		0.25
50	2 PLATE 40x4 L=92 SHAPED	2		0.1
49	4 PLATE 50x4 L=546 SHAPED	4		0.85
48	1 PLATE 50x4 L=435 SHAPED	1		0.7
47	1 PLATE 50x4 L=225 SHAPED	1		0.4
46	3 PLATE 50x4 L=346 SHAPED	3		0.5
45	7 PLATE 50x4 L=792 SHAPED	7		1.2
44	2 PLATE 50x4 L=386	2		0.6
43	2 PLATE 50x4 L=429 SHAPED	2		0.7
42	2 PLATE 50x4 L=248	2		0.4
41	2 PLATE 50x4 L=253	2		0.4
40	1 PLATE 50x4 L=456 SHAPED	1		0.7
39	7 PLATE 50x4 L=416	7		0.65
38	1 PLATE 50x4 L=461 SHAPED	1		0.7
37	1 PLATE 186x4 L=1642 SHAPED BENT	1		8.5
36	1 PLATE 186x4 L=1342 SHAPED BENT	1		7.8
35	2 PLATE 186x4 L=546 SHAPED BENT	2		3
34	5 PLATE 186x4 L=792 SHAPED BENT	5		1.6
33	1 PLATE 186x4 L=640 SHAPED BENT	1		37
32	1 PLATE 186x4 L=1350 SHAPED BENT	1		8
31	1 PLATE 186x4 L=3150 SHAPED BENT	1		18.3
30	1 PLATE 186x4 L=1220 SHAPED BENT	1		7
29	1 PLATE 186x4 L=5600 SHAPED BENT	1		32.4
28	1 PLATE 186x4 L=800 SHAPED BENT	1		4.6
27	1 PLATE 170x3 L=380 SHAPED BENT	1		1.5
26	1 PLATE 170x3 L=2600 SHAPED BENT	1		10.4
25	1 PLATE 170x3 L=2350 SHAPED BENT	1		9.4
24	1 PLATE 50x4 L=368 SHAPED	1		0.6
23	17 PLATE 30x5 L=45	17		0.05
22	17 SQUARE PIPE 50x4 L=100	17		0.6
21	2 ROUND #15 L=132	2		0.2
20	1 ROUND #10 L=270 BENT	1		0.2
19	2 ROUND #25 L=4	2		0.1
18	4 ANGLE 50x50x5 L=740 SHAPED	4		2.6
17	1 STRETCHED PLATE FILS E3 Th3 720x720	1		16.2
16	4 PIPE #20x4.5 L=60	4		0.1
15	3 PLATE 50x4 L=414 SHAPED	3		0.7
14	2 PLATE 50x4 L=356	2		0.6
13	4 PLATE 50x4 L=942 SHAPED	4		1.5
12	1 PLATE 186x4 L=942 SHAPED BENT	1		5.5
11	2 PLATE 186x4 L=950 SHAPED BENT	2		5.5
10	1 STRETCHED PLATE FILS E3 Th3 2330x905	1		31.6
9	2 PLATE 186x4 L=2350 SHAPED BENT	2		13.6
8	20 PLATE 145x6 L=38.5 SHAPED	20		0.3
7	5 PLATE 80x5 L=250 BENT	5		0.9
6	5 PLATE 115x6 L=200 SHAPED	5		0.6
5	5 PLATE 120x15 L=290	5		4.1
4	1 BEAM IPE 160 L=865	1		13.7
3	2 BEAM IPE 160 L=1000	2		15.8
2	2 BEAM IPE 160 L=1415	2		22.4
1	5 SQUARE 12 L=120	5		0.14



DEAL

STRADDLE CARRIER
SC 720 - 32

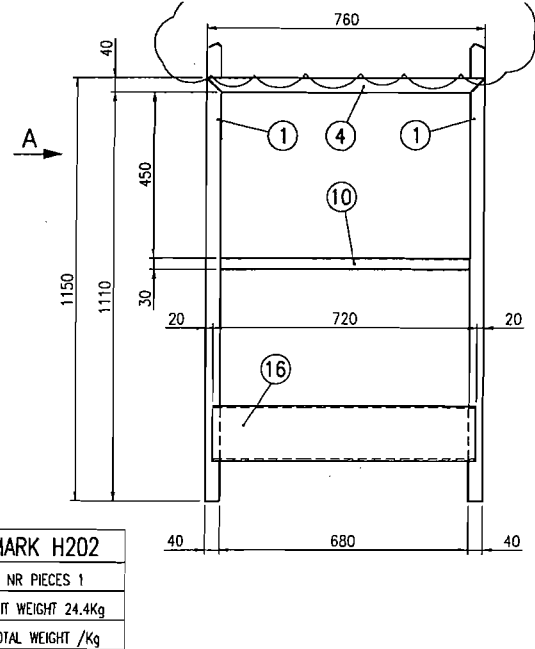
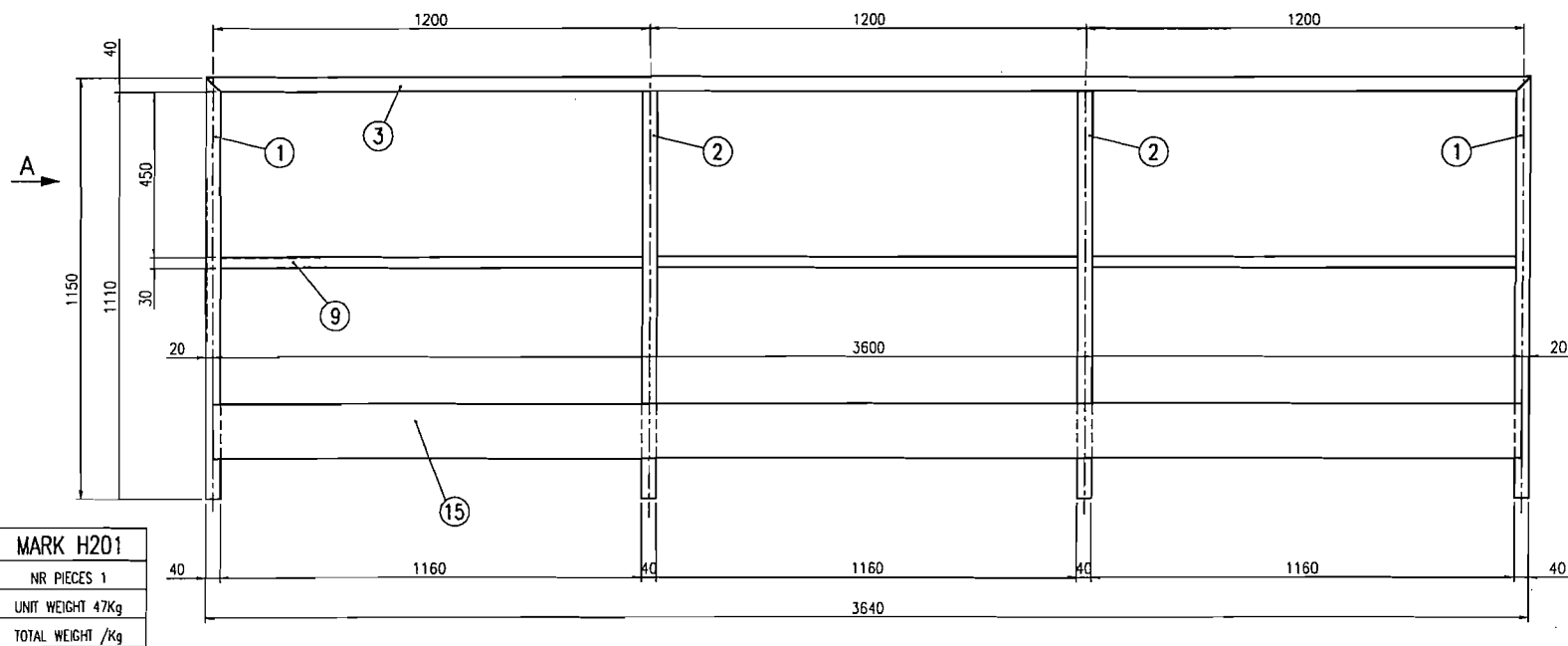
MAIN GIRDER
FRONT SIDE WALKWAYS - DETAILS

SCALE 1:10

1 of 1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DECA
WRITTEN AUTHORIZATION

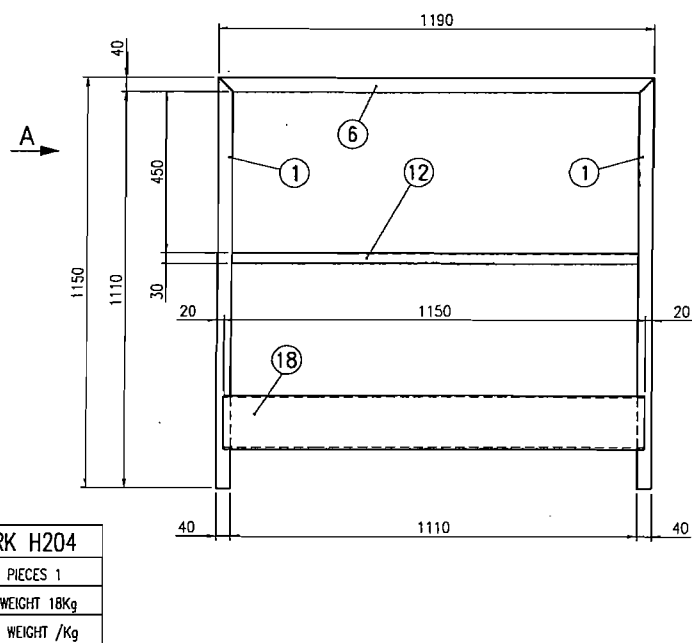
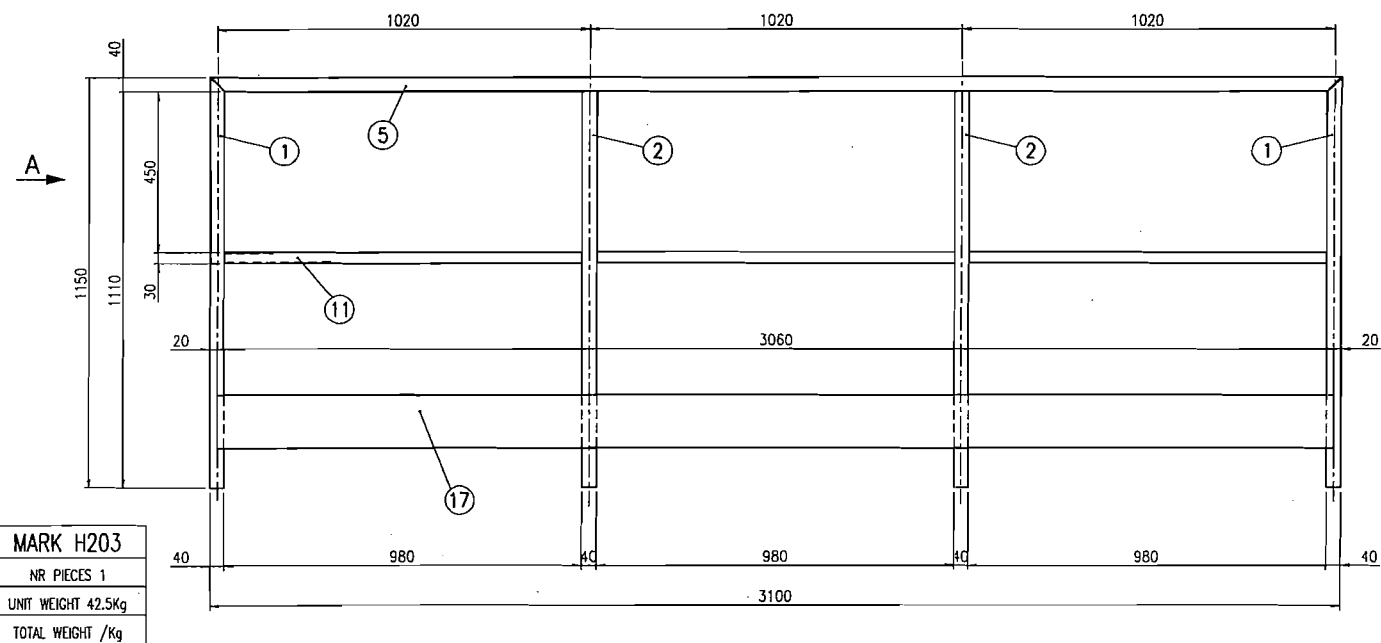
KIEWIT / FCI / MANSON JV



WELDING PROCEDURES : The procedures used shall be qualified according to EN 288-3, D.M. 09-01-95, or ASME sect. IX		WELDS (UNI 1310) Where not otherwise indicated a=0.7 of minimum thickness to be connected (Continuous welds) Edge preparation for welding in accordance to UNI 11001
TOLERANCES Dimension without tolerance indication Structural steel work UNI ISO 2768-M Mechanics UNI ISO 2768-f		FINISHING Mechanical UNI 4600
TOLERANCES Fit ISO (UNI 7218)		

TOTAL WEIGHT = 190Kg Δ

FINAL PAINTING : ☒
ENAMEL BLUE RAL 5017



POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	TOT. WEIGHT	NOTES
22	1	SQUARE PIPE 40x3 L=1055 SHAPED		Fe 360-B	3.8		
21	4	SQUARE PIPE 40x3 L=800 SHAPED		Fe 360-B	2.8	11.2	
20	1	PLATE 167x2 L=870 BENT		Fe 360-B	2.2		
19	1	PLATE 167x2 L=2030 BENT		Fe 360-B	5.2		
18	1	PLATE 167x2 L=1150 BENT		Fe 360-B	2.9		
17	1	PLATE 167x2 L=3060 BENT		Fe 360-B	8		
16	1	PLATE 167x2 L=720 BENT		Fe 360-B	1.9		
15	1	PLATE 167x2 L=3600 BENT		Fe 360-B	9.4		
14	1	SQUARE PIPE 30x3 L=830		Fe 360-B	2		
13	3	SQUARE PIPE 30x3 L=975		Fe 360-B	2.5	7.5	
12	1	SQUARE PIPE 30x3 L=1110		Fe 360-B	2.7		
11	3	SQUARE PIPE 30x3 L=980		Fe 360-B	2.5	7.5	
10	2	SQUARE PIPE 30x3 L=680		Fe 360-B	1.7	3.4	
9	3	SQUARE PIPE 30x3 L=1160		Fe 360-B	2.9	8.7	
8	1	SQUARE PIPE 40x3 L=910 SHAPED		Fe 360-B	2.9		
7	1	SQUARE PIPE 40x3 L=2070 SHAPED		Fe 360-B	7.1		
6	1	SQUARE PIPE 40x3 L=1190 SHAPED		Fe 360-B	3.9		
5	1	SQUARE PIPE 40x3 L=3100 SHAPED		Fe 360-B	10.6		
4	2	SQUARE PIPE 40x3 L=760 SHAPED		Fe 360-B	2.6	5.2	
3	1	SQUARE PIPE 40x3 L=3640 SHAPED		Fe 360-B	12.4		
2	5	SQUARE PIPE 40x3 L=1110		Fe 360-B	4	20	
1	12	SQUARE PIPE 40x3 L=1150 SHAPED		Fe 360-B	4.1	49.2	

REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
2					
1	28/08/02	ADD SHEET 2/2	S. GERMANO	CUCCHIARO	RIBIS
0	24.05.02	FIRST ISSUE	EsseTre	CUCCHIARO	RIBIS

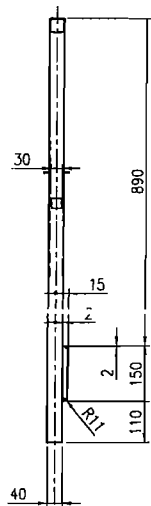
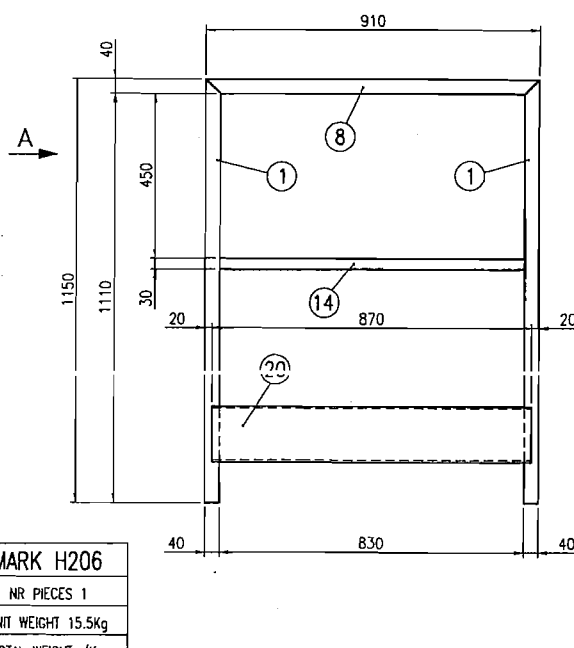
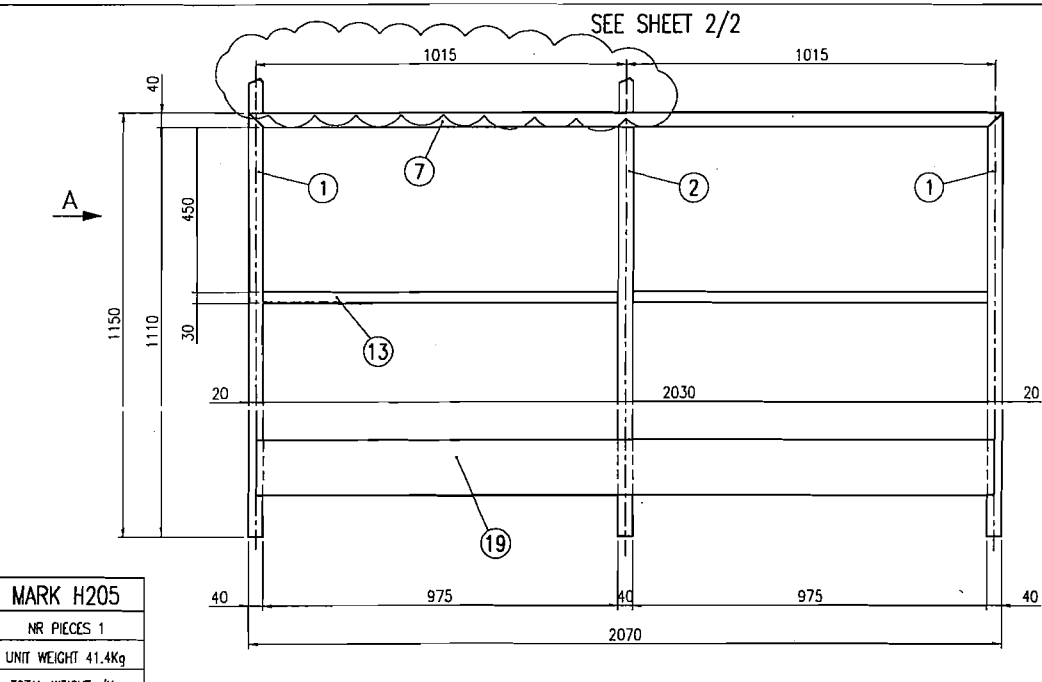
DEAL

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

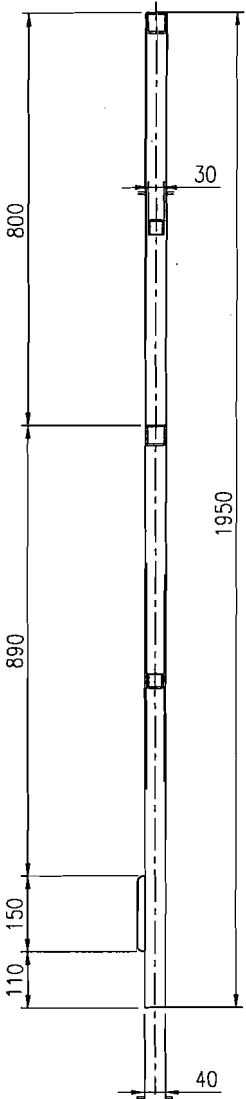
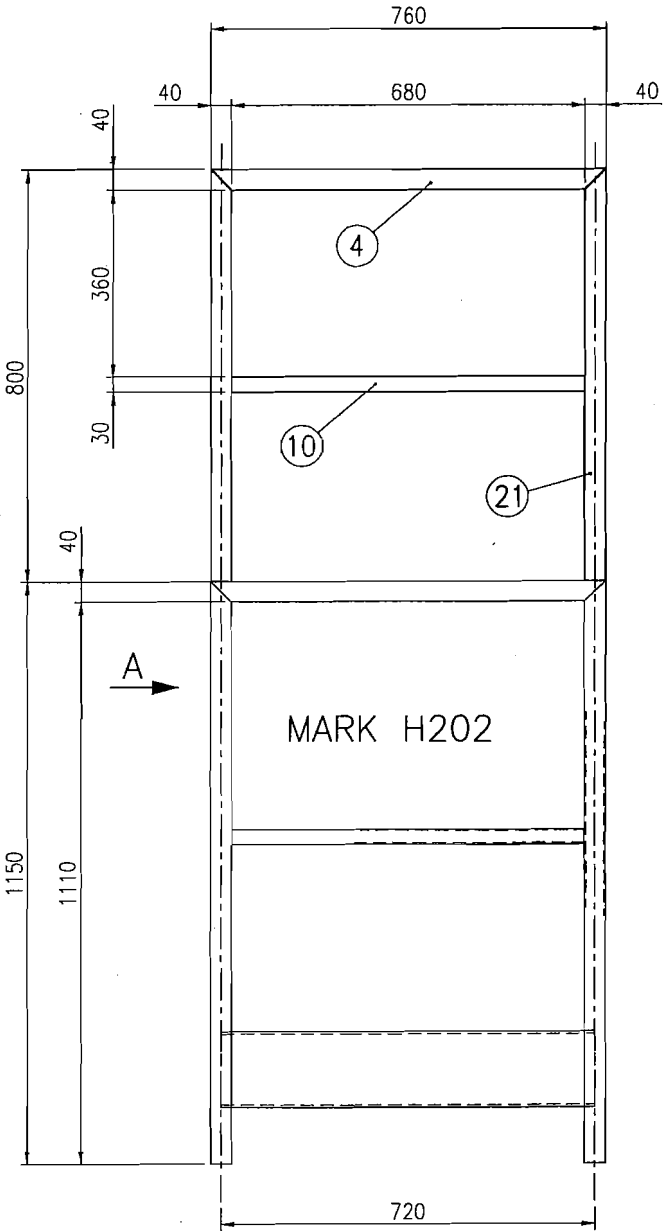
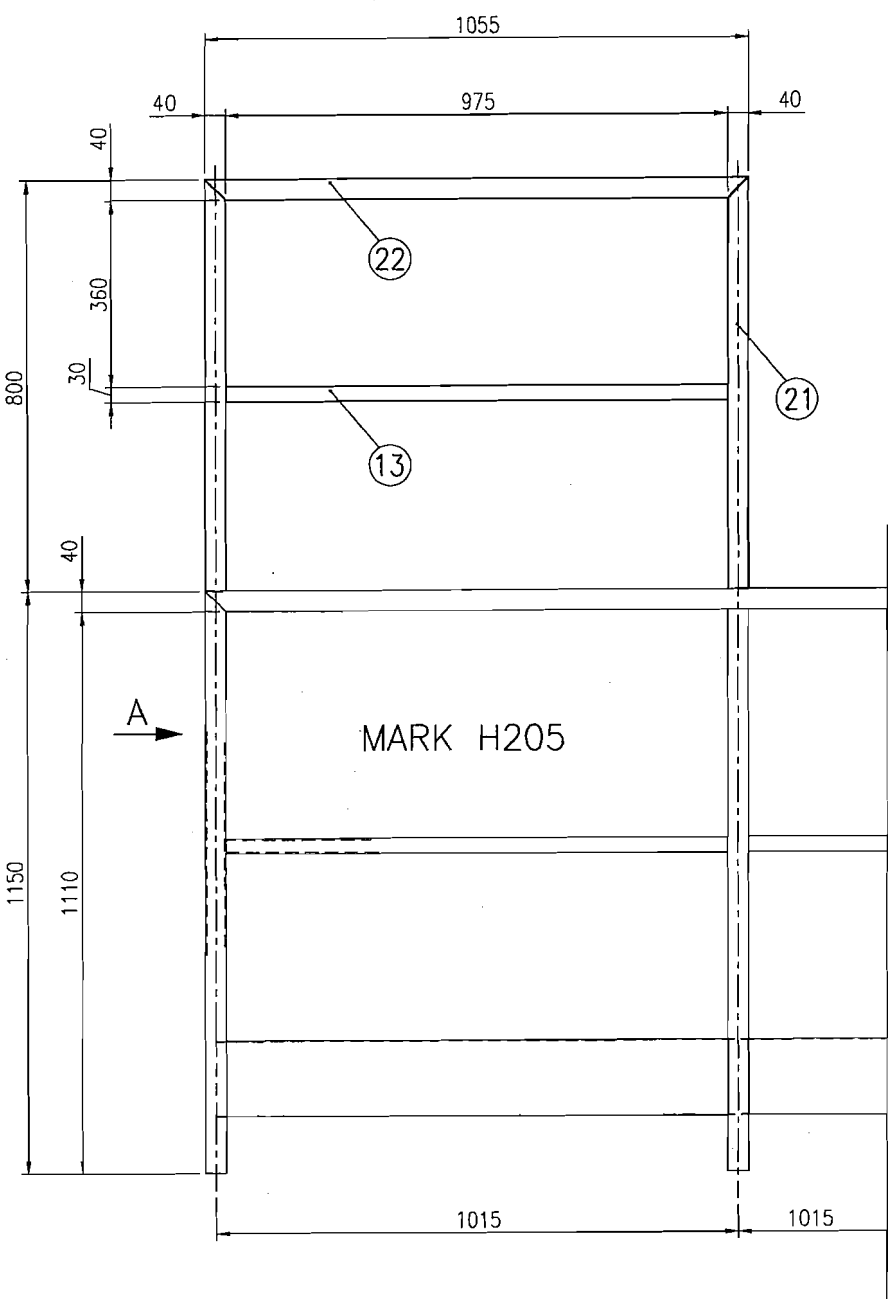
REFERENCE: STRADDLE CARRIER SC 720 - 32	
OBJECT: MAIN GIRDER	
TITLE: FRONT SIDE WALKWAYS - DETAILS	
Substitutes for:	Scale 1:10
File: T06DMCDH002A_1.DWG	Format A1
Job No. 10600311	Sub. J. No. 10600787
Dep. 1	Doc. Type 1
Post. 1	Nr. 1
Rev. 1	

KIEWIT / FCI / MANSON JV

SKYWAY BRIDGE PROJECT



VIEW FROM A
TYPICAL

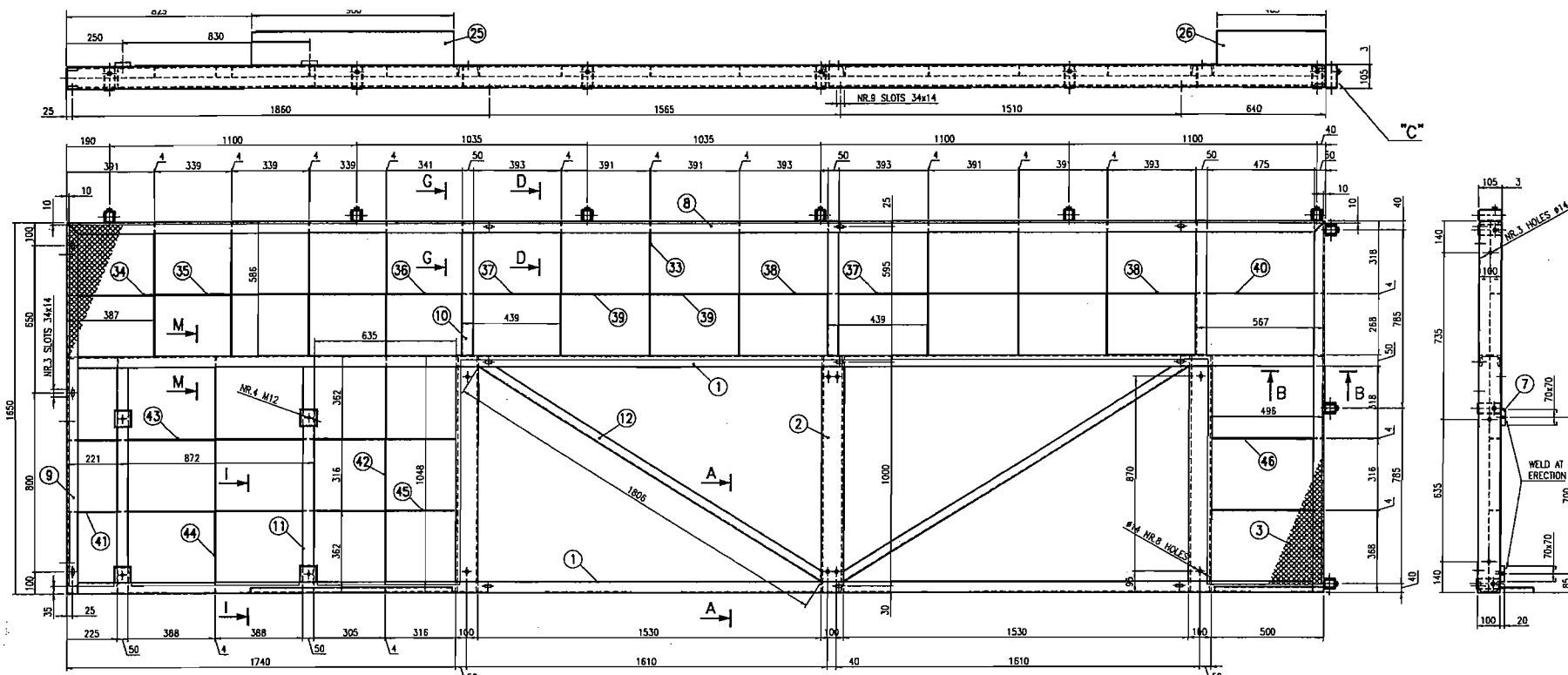


VIEW FROM A
TYPICAL

2					
1	28/08/02	REVISED MARK H202 - H205	S. GERMANO	CUCCHIARO	RIBIS
0	24.05.02	FIRST ISSUE	EsseTre	CUCCHIARO	RIBIS
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL Sede e Stabilimento Via Battisti-Frattone, Cernusco 33050-Pozzuolo del Friuli (UD)-Italy Tel.: +39 432 607 900 Fax: +39 432 607 902 e-mail: deal@deal.it	REFERENCE: STRADDLE CARRIER SC 720 - 32				
	OBJECT: MAIN GIRDER				
	TITLE: FRONT SIDE WALKWAYS - DETAILS				
	Substitutes for: ---	Scale: 1:10	Sheet: 2	Of: 2	
	File: T06DMCDH002B_1.DWG	Format: A2			
Job Nr. - 6 0 0 3 1 1		Sub.J.Nr. - 0 6 0 7 8 7			
Mr. - - - - -					
Fab. Nr. T 0 6	Dep. D M	Doc. Type C D	Port. H -	Nr. 0 0 2	Rev. 1

CLIENT: KIEWIT / FCI / MANSON JV
PROJECT: SKYWAY BRIDGE PROJECT
S. FRANCISCO - OAKLAND BAY BRIDGE - USA



SECT. I-I
SC. 1:5

SECT. A-A
SC. 1:5

SECT. M-M
SC. 1:5

SECT. B-B
SC. 1:5

DETAIL POS. 3
SCALE 1:25

SECTION F-F

DETAIL POS. 4
SCALE 1:25

MARK H301
NR. PIECES 1
UNIT WEIGHT 374 Kg
TOTAL WEIGHT 374 Kg

MARK H303
NR. PIECES 1
UNIT WEIGHT 21 Kg
TOTAL WEIGHT 21 Kg

MARK H304
NR. PIECES 2
UNIT WEIGHT 07 Kg

MARK H305
NR. PIECES 1
UNIT WEIGHT 117 Kg

MARK H302
NR. PIECES 1
UNIT WEIGHT 66 Kg
TOTAL WEIGHT 66 Kg

MARK H306
NR. PIECES 1
UNIT WEIGHT 89 Kg

TOTAL WEIGHT = 650 Kg

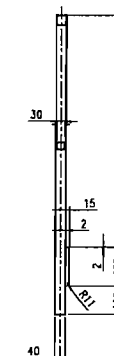
FINAL PAINTING :
ENAMEL YELLOW RAL 1007

WELDING PROCEDURES :
The procedures used shall be
qualified according to EN 288-3,
D.M. 09-01-96, or ASME sect. IX

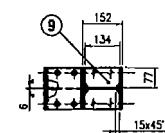
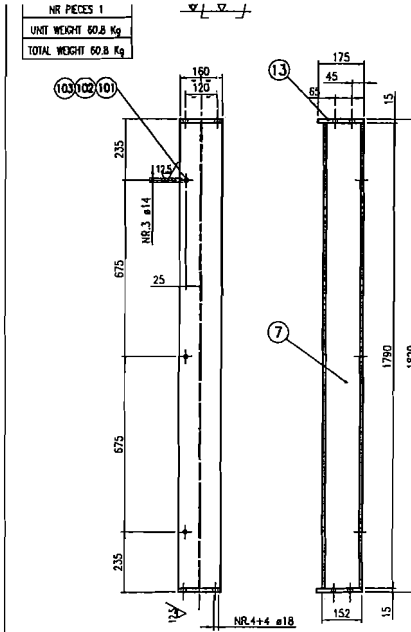
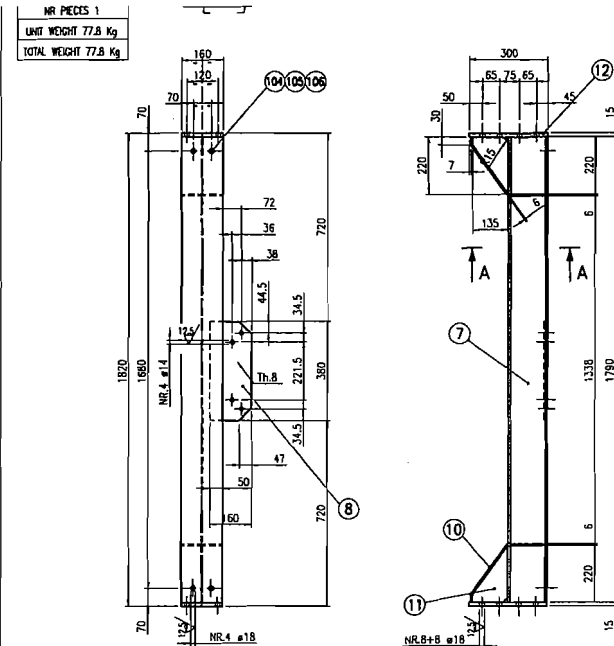
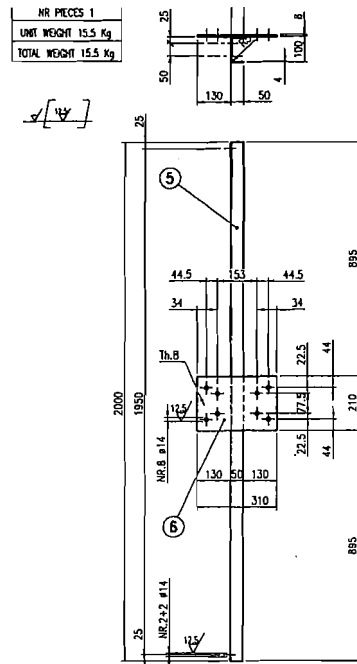
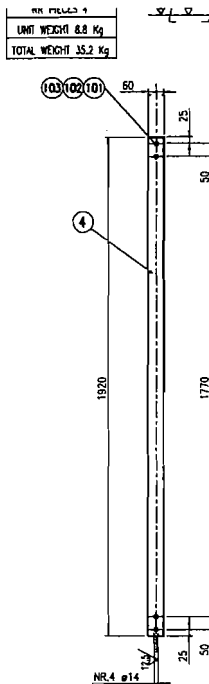
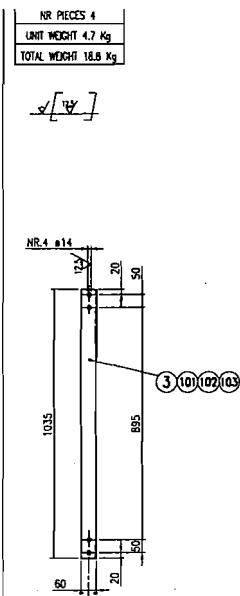
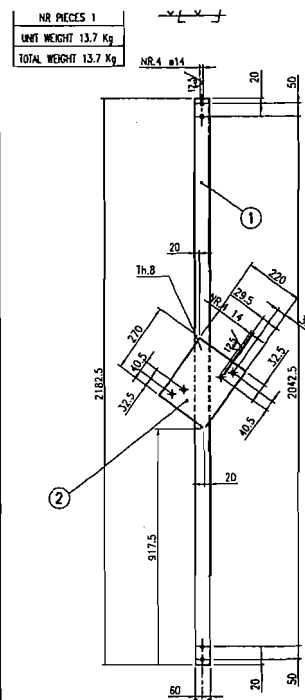
POS.	QTY	DESCRIPTION	COO.	MATERIAL	UNIT WEIGHT	NOTES
105	12	SCREW M12x60 UNI 5739		Fe 360 B	0.15	0.3
104	29	SCREW M12x30 UNI 5739		Fe 360 B	1.3	2.6
103	41	NUT M12 UNI 5588		Fe 360 B	1.3	2.6
102	26	WASHER 13 UNI 6592		Fe 360 B	0.45	1.35
101	2	COTTER PIN 43.2x20 UNI 1336		Fe 360 B	0.55	3.3
60	2	PLATE 48x4 L=82 SHAPED		Fe 360 B	0.5	1
59	2	PLATE 50x4 L=821 SHAPED		Fe 360 B	1.4	2.8
58	2	PLATE 50x4 L=817 SHAPED		Fe 360 B	1.2	4.8
57	3	PLATE 50x4 L=296		Fe 360 B	0.3	0.8
56	6	PLATE 50x4 L=314 SHAPED		Fe 360 B	0.5	3.3
55	2	PLATE 50x4 L=318		Fe 360 B	0.5	1
54	1	PLATE 50x4 L=840		Fe 360 B	1	1
53	2	PLATE 50x4 L=892 SHAPED		Fe 360 B	1.4	2.8
52	4	PLATE 50x4 L=796 SHAPED		Fe 360 B	1.2	4.8
51	2	ANGLE 50x50x5 L=70		Fe 360 B	0.28	0.52
50	2	PLATE 50x4 L=396 SHAPED		Fe 360 B	0.3	0.8
49	6	PLATE 50x4 L=324 SHAPED		Fe 360 B	0.5	3.3
48	3	PLATE 50x4 L=286		Fe 360 B	0.45	1.35
47	2	PLATE 50x4 L=446 SHAPED		Fe 360 B	0.65	1.3
46	3	PLATE 50x4 L=496 SHAPED		Fe 360 B	0.75	2.25
45	2	PLATE 50x4 L=635		Fe 360 B	1	2
44	4	PLATE 50x4 L=362		Fe 360 B	0.5	2
43	2	PLATE 50x4 L=872 SHAPED		Fe 360 B	1.4	2.8
42	2	PLATE 50x4 L=316 SHAPED		Fe 360 B	0.5	1
41	2	PLATE 50x4 L=221 SHAPED		Fe 360 B	0.35	0.7
40	1	PLATE 50x4 L=567 SHAPED		Fe 360 B	0.9	0.9
39	4	PLATE 50x4 L=381		Fe 360 B	0.6	2.4
38	2	PLATE 50x4 L=393		Fe 360 B	0.6	1.2
37	2	PLATE 50x4 L=439 SHAPED		Fe 360 B	0.7	1.4
36	1	PLATE 50x4 L=341		Fe 360 B	0.53	0.53
35	3	PLATE 50x4 L=339		Fe 360 B	0.53	1.6
34	1	PLATE 50x4 L=387 SHAPED		Fe 360 B	0.6	0.6
33	18	PLATE 186x4 L=100 SHAPED BENT		Fe 360 B	0.9	9
32	4	PLATE 186x4 L=100 SHAPED BENT		Fe 360 B	0.8	2.4
31	2	PLATE 186x4 L=275 SHAPED BENT		Fe 360 B	1.6	3.2
30	2	PLATE 186x4 L=892 SHAPED BENT		Fe 360 B	5.8	11.6
29	2	PLATE 186x4 L=2500 SHAPED BENT		Fe 360 B	14.6	29.2
28	2	PLATE 186x4 L=1000 SHAPED BENT		Fe 360 B	5.9	11.8
27	1	PLATE 170x3 L=2500 SHAPED BENT		Fe 360 B	10	10
26	1	PLATE 170x3 L=485 SHAPED BENT		Fe 360 B	2	2
25	1	PLATE 170x3 L=900 SHAPED BENT		Fe 360 B	3.6	3.6
24	1	PLATE 186x4 L=792 SHAPED BENT		Fe 360 B	4.6	4.6
23	11	PLATE 30x5 L=45		Fe 360 B	0.05	0.55
22	15	SQUARE PIPE 50x4 L=100		Fe 360 B	0.6	9
21	2	ROUND #15 L=132		Fe 360 B	0.2	0.4
20	1	ROUND #10 L=270 BENT		Fe 360 B	0.2	0.2
19	2	ROUND #25 L=4		Fe 360 B	0.1	0.2
18	4	ANGLE 50x50x5 L=740 SHAPED		Fe 360 B	2.6	10.4
17	1	STRETCHED PLATE FILS E3 Th.3 720x720		Fe 360 B	8.1	8.1
16	4	PIPE #20x4.5 L=60		Fe 360 B	0.1	0.4
15	3	PLATE 186x4 L=942 SHAPED BENT		Fe 360 B	5.5	16.5
14	4	PLATE 186x4 L=1650 SHAPED BENT		Fe 360 B	9.6	38.4
13	4	PLATE 186x4 L=950 SHAPED BENT		Fe 360 B	5.5	22
12	2	EQUAL ANGLE 40x4 L=1806 SHAPED		Fe 360 B	10.5	21
11	2	PLATE 186x4 L=1048 SHAPED BENT		Fe 360 B	6.1	12.2
10	3	PLATE 186x4 L=586 SHAPED BENT		Fe 360 B	3.4	10.2
9	2	PLATE 186x4 L=1650 SHAPED BENT		Fe 360 B	9.6	19.2
8	1	PLATE 186x4 L=5600 SHAPED BENT		Fe 360 B	32.7	32.7
7	4	PLATE 70x20 L=70		Fe 360 B	0.75	3
6	1	STRETCHED PLATE FILS E3 Th.3 930x1630		Fe 360 B	22.8	22.8
5	1	STRETCHED PLATE FILS E3 Th.3 1055x2480 SHAPED		Fe 360 B	36.2	36.2
4	1	STRETCHED PLATE FILS E3 Th.3 930x1630 SHAPED		Fe 360 B	13.8	13.8
3	1	STRETCHED PLATE FILS E3 Th.3 1605x5580 SHAPED		Fe 360 B	84	84
2	3	UPN 100 L=1048 SHAPED		Fe 360 B	11.1	33.3
1	2	UPN 100 L=5592 SHAPED		Fe 360 B	59.3	118.6

DEAL

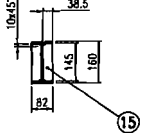
STRADDLE CARRIER SC 720 - 32	
MAIN GIRDER	
REAR SIDE POWER WALKWAYS - DETAILS	
Scale: 1:10	Sheet: 1 of 1
T050MCH003.2.DWG	
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL AUTHORIZATION	
KIEWIT / FCI / MANSON JV	



KIEWIT / ECI / MANSON JV



SECTION A-A
(typical)

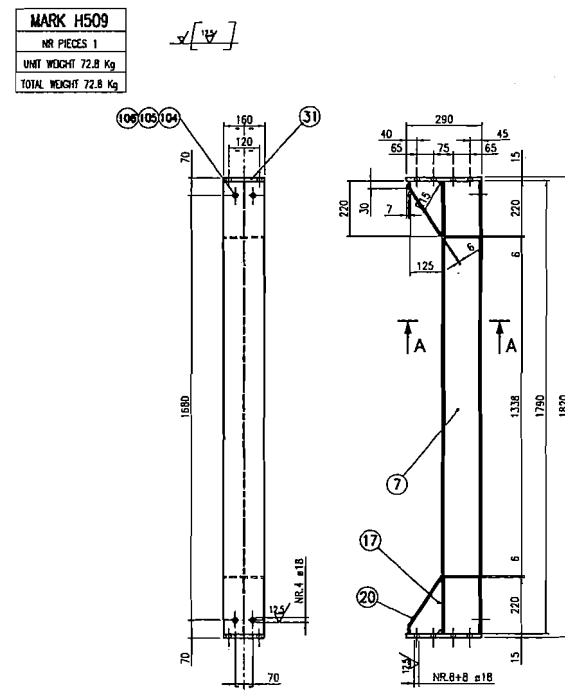
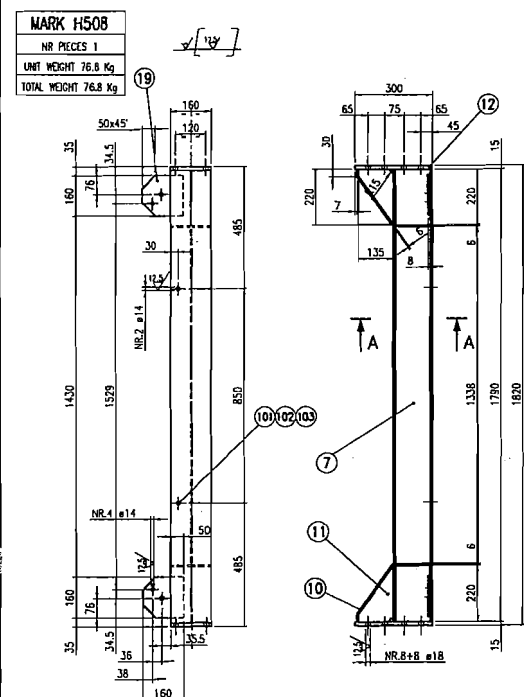
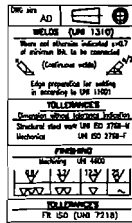


SECTION C-C
(typical)

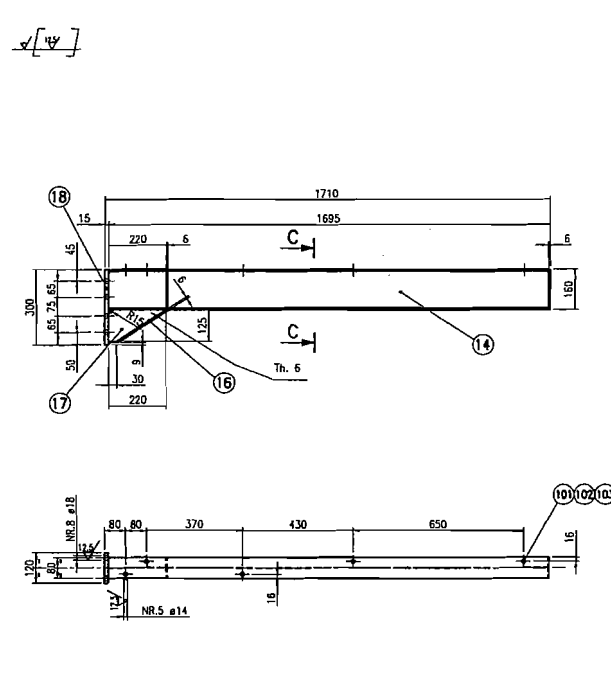
WELDING PROCEDURES :
The procedure used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

TOTAL WEIGHT = 875 Kg

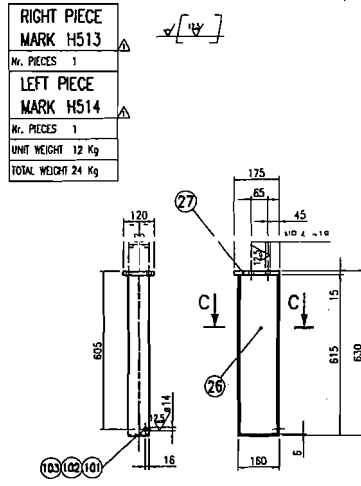
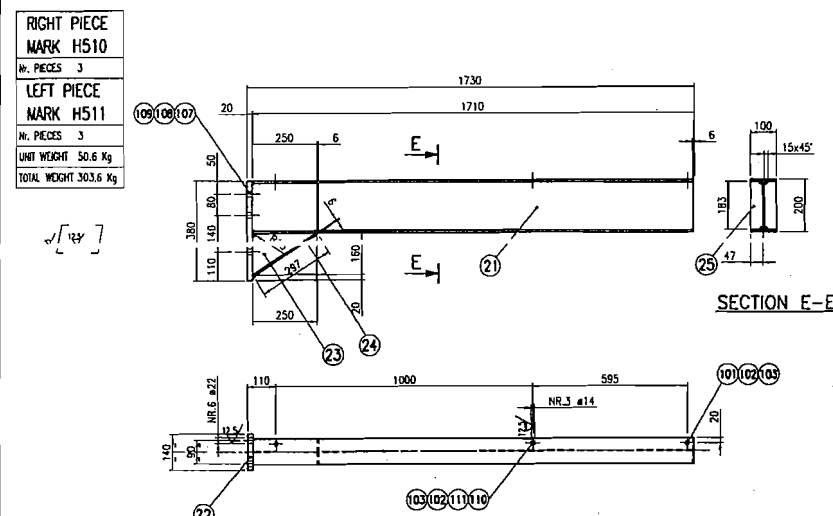
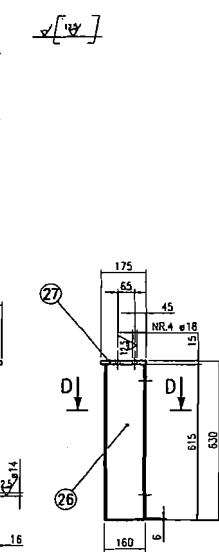
FINAL PAINTING :
ENAMEL YELLOW RAL 1007



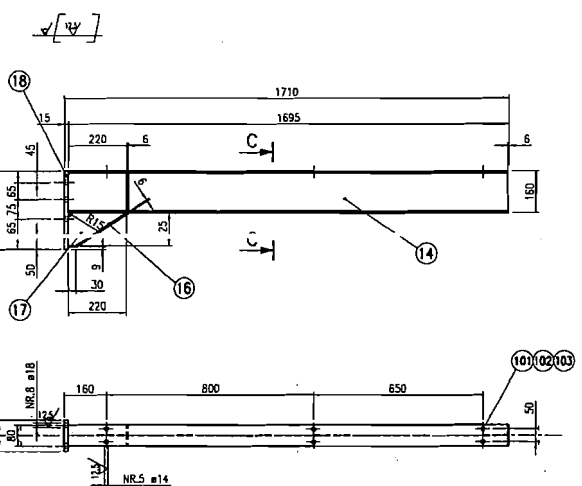
RIGHT PIECE MARK H506
NR PIECES 1
UNIT WEIGHT 34.1 Kg
TOTAL WEIGHT 34.1 Kg



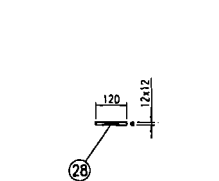
RIGHT PIECE MARK H516
NR PIECES 1
UNIT WEIGHT 12 Kg
TOTAL WEIGHT 12 Kg



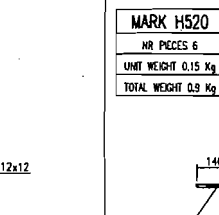
MARK H515
NR PIECES 2
UNIT WEIGHT 34.1 Kg
TOTAL WEIGHT 68.2 Kg



MARK H518
NR PIECES 8
UNIT WEIGHT 0.13 Kg
TOTAL WEIGHT 1.04 Kg



MARK H519
NR PIECES 8
UNIT WEIGHT 0.15 Kg
TOTAL WEIGHT 1.2 Kg



MARK H520
NR PIECES 6
UNIT WEIGHT 0.15 Kg
TOTAL WEIGHT 0.9 Kg

111	12	UPN PLATE #13 UNI 5716	C50		
110	12	SCREW M12x35 UNI 5739	8.8		
109	36	WASHER 21 UNI 6592			
108	36	NUT M20 UNI 5588	8.8		
107	36	SCREW M20x70 UNI 5737	8.8		
106	8	WASHER 17 UNI 6592			
105	8	NUT M16 UNI 5588	8.8		
104	8	SCREW M16x40 UNI 5737	8.8		
103	83	WASHER 13 UNI 6592			
102	83	NUT M12 UNI 5588	8.8		
101	71	SCREW M12x30 UNI 5739	8.8		
31	2	PLATE 150x15 L=290	Fe 430 B	5.5	11
30	6	SQUARE 12 L=140	Fe 430 B	0.15	0.9
29	8	SQUARE 12 L=160	Fe 430 B	0.2	1.6
28	8	SQUARE 12 L=120	Fe 430 B	0.13	1
27	4	PLATE 120x15 L=175	Fe 430 B	2.5	10
26	4	BEAM IPE 160 L=615	Fe 430 B	9.5	38
25	24	PLATE 47x6 L=183	Fe 430 B	0.4	9.6
24	6	PLATE 100x6 L=297	Fe 430 B	1.4	8.4
23	6	PLATE 160x6 L=250 SHAPED	Fe 430 B	0.9	5.4
22	6	PLATE 140x20 L=380	Fe 430 B	8.4	50.4
21	6	BEAM IPE 200 L=1710	Fe 430 B	38.3	229.8
20	2	PLATE 160x6 L=261	Fe 430 B	2	4
19	2	PLATE 160x6 L=160 SHAPED	Fe 430 B	1.4	2.8
18	4	PLATE 120x15 L=300	Fe 430 B	4.2	16.8
17	6	PLATE 125x6 L=220 SHAPED	Fe 430 B	0.7	4.2
16	4	PLATE 82x6 L=261 SHAPED	Fe 430 B	1	4
15	24	PLATE 38x6 L=145 SHAPED	Fe 430 B	0.3	7.2
14	4	BEAM IPE 160 L=1895	Fe 430 B	27	108
13	2	PLATE 160x15 L=175	Fe 430 B	3.2	6.4
12	4	PLATE 160x15 L=300	Fe 430 B	6	20
11	4	PLATE 135x6 L=220 SHAPED	Fe 430 B	0.8	3.2
10	4	PLATE 160x6 L=266	Fe 430 B	2	8
9	12	PLATE 77x6 L=134 SHAPED	Fe 430 B	0.5	6
8	1	PLATE 160x6 L=380 SHAPED	Fe 430 B	3.8	3.8
7	4	BEAM HE 180 A L=1790	Fe 430 B	54.4	217.6
6	1	PLATE 210x8 L=310	Fe 430 B	4	4
5	1	PLATE 186x4 L=2000 SHAPED BENT	Fe 430 B	11.5	11.5
4	4	ANGLE 60x6x5 L=1820	Fe 430 B	8.8	35.2
3	4	ANGLE 60x6x5 L=1035	Fe 430 B	4.7	18.8
2	1	PLATE 220x8 L=270	Fe 430 B	3.7	3.7
1	1	ANGLE 60x6x5 L=2182.5	Fe 430 B	10	10

POS.	Q.TY	DESCRIPTION	COD.	MATERIAL	UNIT WEIGHT	NOTES
2						
1	24.07.02	WEIGHT REVISED WHERE INDICATED	Emat	CUCCARD		RBS
0	05.06.02	FIRST ISSUE	Emat	CUCCARD		RBS
REV.	DATE	REV. OBJECT	DRAMA	CHECKED	APPROVED	

DEAL

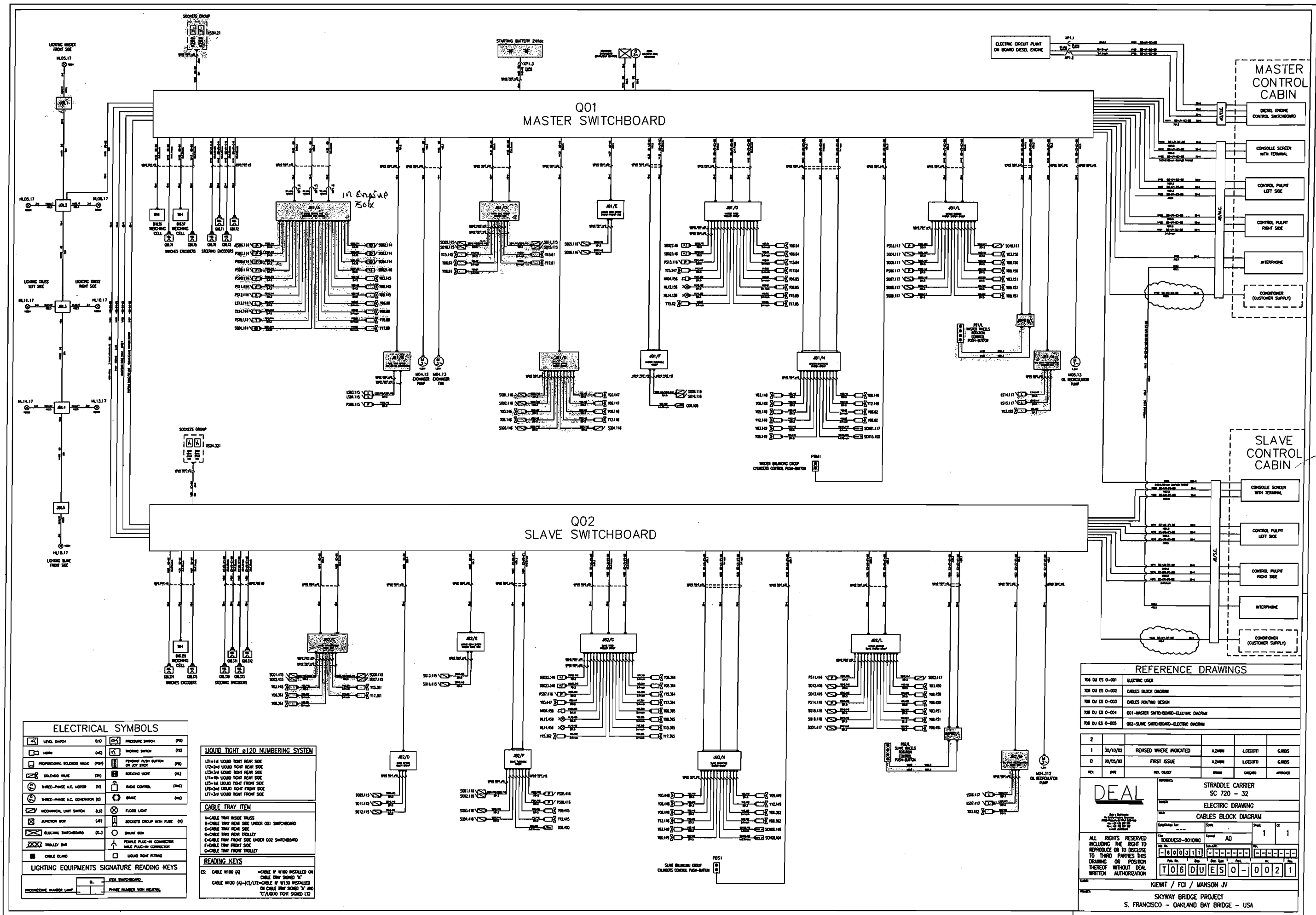
STRADDLE CARRIER
SC 720 - 32

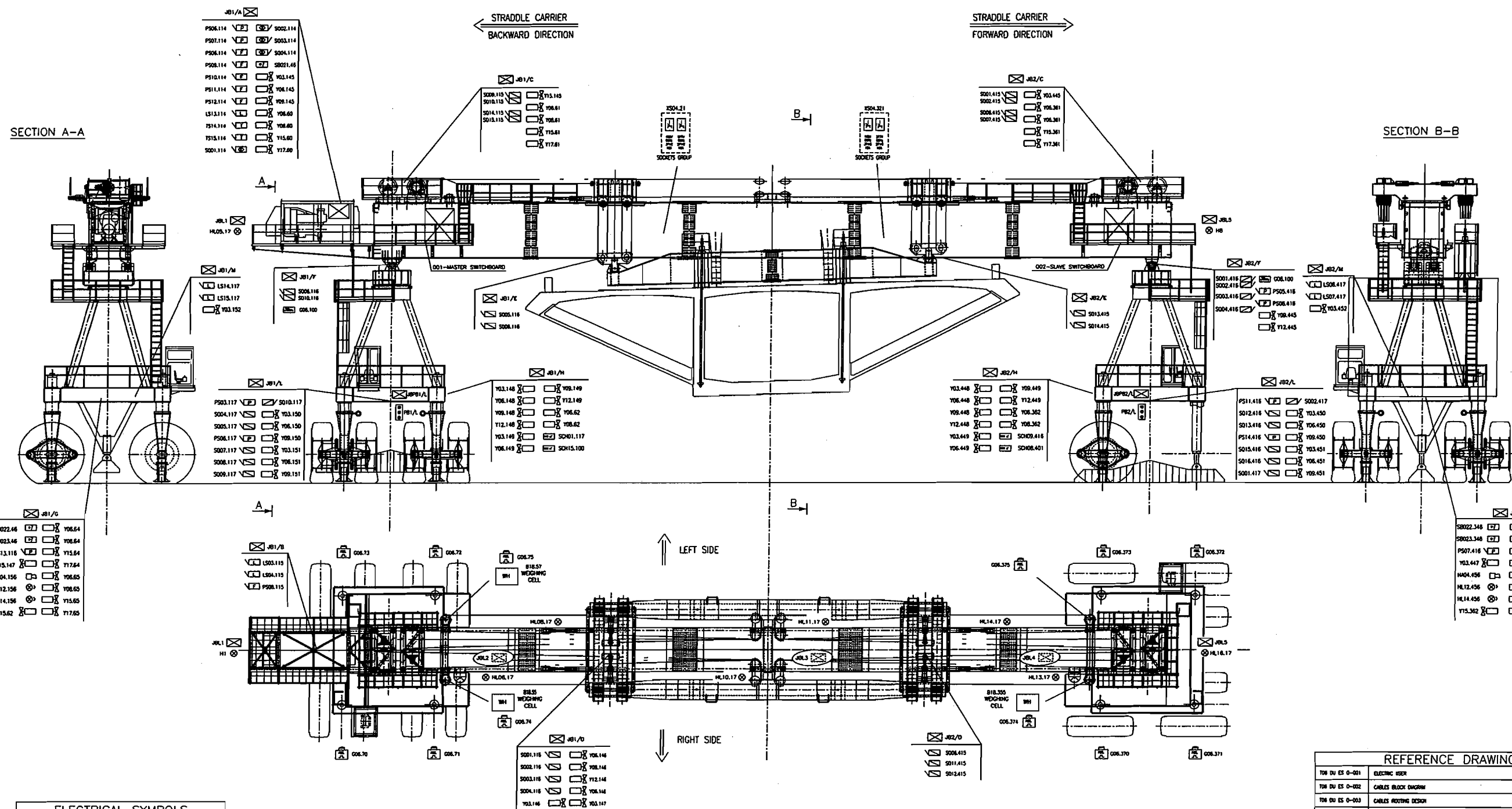
MAIN GIRDER
REAR SIDE POWER WALKWAYS - DETAILS

Scale: 1:10
Sheet: 1 of 1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

KIEWIT / FCI / MANSON JV





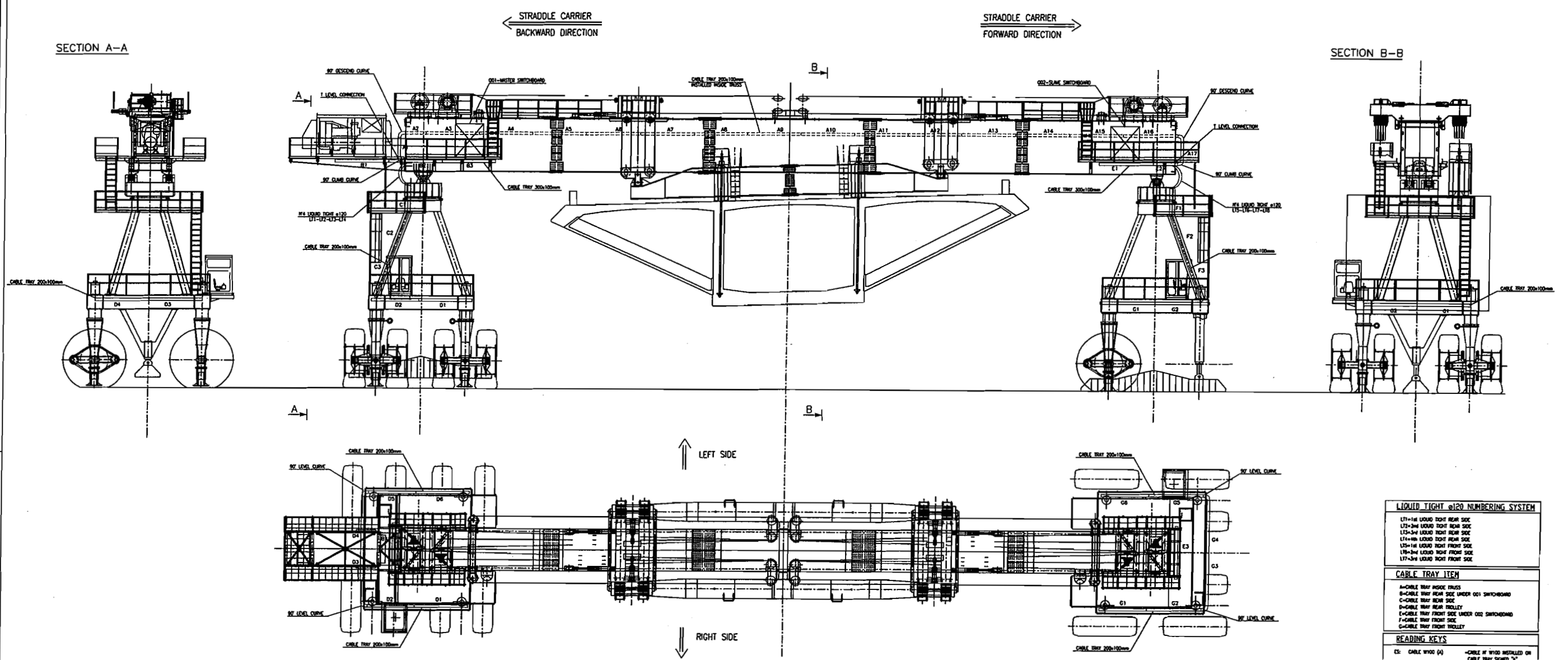
ELECTRICAL SYMBOLS				
	LIMIT SWITCH	(LS)	 PRESSURE SWITCH	(PS)
	MOTOR	(M)	 THERMAL SWITCH	(TS)
	PROPORTIONAL SOLENOID VALVE	(PSV)	 FORWARD PUSH BUTTON ON JOY STICK	(FJS)
	SOLENOID VALVE	(SV)	 WARNING LIGHT	(WL)
	THREE-PHASE A.C. MOTOR	(M)	 RADIO CONTROL	(RC)
	THREE-PHASE A.C. GENERATOR	(G)	 BRAKE	(BK)
	MECHANICAL UNIT SWITCH	(US)	 FLOOD LIGHT	(FL)
	JUNCTION BOX	(JB)	 SOCKET GROUP WITH FUSE	(SG)
	ELECTRIC SWITCHBOARD	(ESB)	 SHUNT BOX	(SB)
	TROLLEY BAR	(TB)	 FEMALE PLUG-IN CONNECTOR	(FPC)
	CABLE CLAMP	(CC)	 MALE PLUG-IN CONNECTOR	(MPC)
LIGHTING EQUIPMENTS SIGNATURE READING KEYS				
	INCANDESCENT LAMP	(L)		PHASE NUMBER WITH NEUTRAL

REFERENCE DRAWINGS			
TOR DU ES 0-001	ELECTRIC USER		
TOR DU ES 0-002	CABLE BLOCK DIAGRAM		
TOR DU ES 0-003	CABLE ROUTING DESIGN		
TOR DU ES 0-004	001-MASTER SWITCHBOARD-ELECTRIC DIAGRAM		
TOR DU ES 0-005	002-SLAVE SWITCHBOARD-ELECTRIC DIAGRAM		
2			
1			
0	20/04/02	FIRST ISSUE	ALJAHN L. COOPER CLARK
REV.	DATE	REV. CHECKED	APPROVED
STRADDLE CARRIER SC 720 - 32			
ELECTRIC DRAWING			
ELECTRIC USER			
ALL RIGHTS RESERVED INCLUDING THE RIGHT TO REPRODUCE OR TO DISCLOSE TO THIRD PARTIES THIS DRAWING OR POSITION THEREOF WITHOUT DEAL AUTHORIZATION			
KIEWIT / FCI / MANSON JV			
SKYWAY BRIDGE PROJECT			
S. FRANCISCO - OAKLAND BAY BRIDGE - USA			

- Tray in Main beam - installed
- Everything else

SECTION A-A

SECTION B-B



LIQUID TIGHT #120 NUMBERING SYSTEM	
L71-146	LIQUID TIGHT REAR SIDE
L72-146	LIQUID TIGHT REAR SIDE
L73-146	LIQUID TIGHT REAR SIDE
L74-146	LIQUID TIGHT REAR SIDE
L75-146	LIQUID TIGHT REAR SIDE
L76-146	LIQUID TIGHT FRONT SIDE
L77-146	LIQUID TIGHT FRONT SIDE
L78-146	LIQUID TIGHT FRONT SIDE
L79-146	LIQUID TIGHT FRONT SIDE
L80-146	LIQUID TIGHT FRONT SIDE

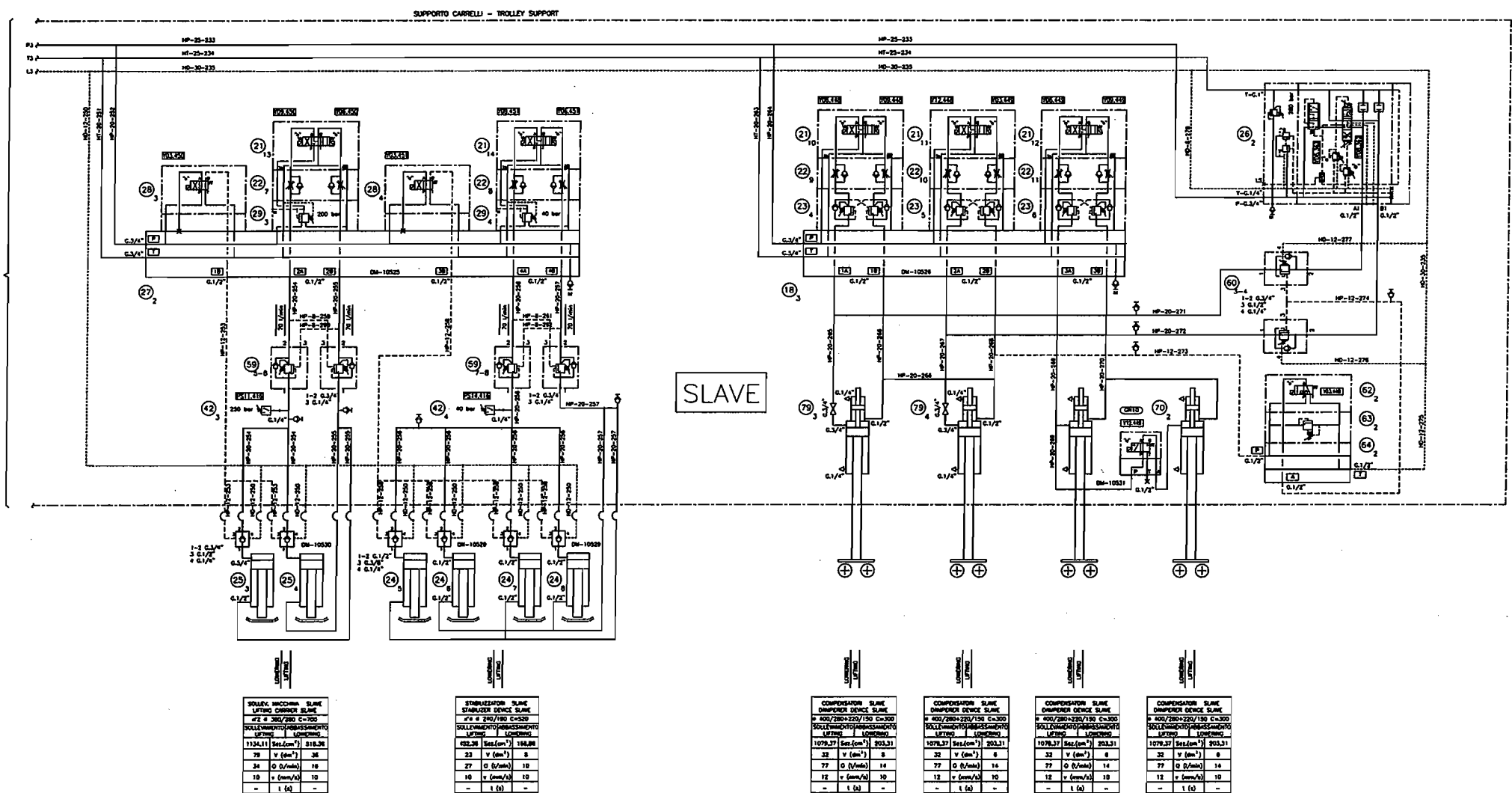
CABLE TRAY ITEM	
A-	CABLE TRAY INSIDE TRUSS
B-	CABLE TRAY REAR SIDE UNDER 001 SWITCHBOARD
C-	CABLE TRAY REAR SIDE
D-	CABLE TRAY REAR TROLLEY
E-	CABLE TRAY FRONT SIDE UNDER 002 SWITCHBOARD
F-	CABLE TRAY FRONT SIDE
G-	CABLE TRAY FRONT TROLLEY

READING KEYS	
CS:	CABLE W/40 (4)
CS:	CABLE W/40 (4) - CABLE W/40 INSTALLED ON CABLE TRAY SIGNED "X"
CS:	CABLE W/40 (4) - CABLE W/40 INSTALLED ON CABLE TRAY SIGNED "X" AND "Y" / LIQUID TIGHT SIGNED L71

REFERENCE DRAWINGS				
T06 BU ES 0-001	ELECTRIC USER			
T06 BU ES 0-002	CABLES BLOCK DIAGRAM			
T06 BU ES 0-003	CABLES ROUTING DESIGN			
T06 BU ES 0-004	001-MASTER SWITCHBOARD-ELECTRIC DIAGRAM			
T06 BU ES 0-005	002-SLAVE SWITCHBOARD-ELECTRIC DIAGRAM			

2				
1				
0	20/05/02	FIRST ISSUE	AZAHN	LECOYTH
REV.	REV.	REV. DATE	REV. DATE	REV. DATE

DEAL		STRADDLE CARRIER	
		SC 720 - 32	
		ELECTRIC DRAWING	
		CABLES ROUTING AND DESIGN	
		Scale: A0	
		1 1	
		T06 DUES 0-003 0	
		KIEWIT / FCI / MANSON JV	
		SKYWAY BRIDGE PROJECT	
		S. FRANCISCO - OAKLAND BAY BRIDGE - USA	



LISTA MATERIALI - LIST OF MATERIAL

Pos.	Q.tà	Descrizione	Tipologia	Manifattura
70	4	VALVOLA A SFERA	HYDAC	
71	1	BLOCCO	CP0102 T08-DU-CP-D-001	DEAL
72	1	BLOCCO	CP0101 T08-DU-CP-D-001	DEAL
73	8	VALVOLA A SFERA	HYDAC	
74	1	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
75	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
76	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
77	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
78	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
79	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
80	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
81	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
82	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
83	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
84	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
85	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
86	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
87	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
88	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
89	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
90	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
91	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
92	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
93	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
94	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
95	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
96	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
97	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
98	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
99	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC
100	2	FILTRO	DF-8H/HC1300-DE-10-C-1.1	HYDAC

LISTA MATERIALI - LIST OF MATERIAL

Pos.	Q.tà	Descrizione	Tipologia	Manifattura
61	2	VALVOLA DI NON RITORNO	DEAL	
62	2	VALVOLA DI NON RITORNO	DEAL	
63	2	VALVOLA DI NON RITORNO	DEAL	
64	2	VALVOLA DI NON RITORNO	DEAL	
65	2	VALVOLA DI NON RITORNO	DEAL	
66	2	VALVOLA DI NON RITORNO	DEAL	
67	2	VALVOLA DI NON RITORNO	DEAL	
68	2	VALVOLA DI NON RITORNO	DEAL	
69	2	VALVOLA DI NON RITORNO	DEAL	
70	2	VALVOLA DI NON RITORNO	DEAL	
71	2	VALVOLA DI NON RITORNO	DEAL	
72	2	VALVOLA DI NON RITORNO	DEAL	
73	2	VALVOLA DI NON RITORNO	DEAL	
74	2	VALVOLA DI NON RITORNO	DEAL	
75	2	VALVOLA DI NON RITORNO	DEAL	
76	2	VALVOLA DI NON RITORNO	DEAL	
77	2	VALVOLA DI NON RITORNO	DEAL	
78	2	VALVOLA DI NON RITORNO	DEAL	
79	2	VALVOLA DI NON RITORNO	DEAL	
80	2	VALVOLA DI NON RITORNO	DEAL	
81	2	VALVOLA DI NON RITORNO	DEAL	
82	2	VALVOLA DI NON RITORNO	DEAL	
83	2	VALVOLA DI NON RITORNO	DEAL	
84	2	VALVOLA DI NON RITORNO	DEAL	
85	2	VALVOLA DI NON RITORNO	DEAL	
86	2	VALVOLA DI NON RITORNO	DEAL	
87	2	VALVOLA DI NON RITORNO	DEAL	
88	2	VALVOLA DI NON RITORNO	DEAL	
89	2	VALVOLA DI NON RITORNO	DEAL	
90	2	VALVOLA DI NON RITORNO	DEAL	
91	2	VALVOLA DI NON RITORNO	DEAL	
92	2	VALVOLA DI NON RITORNO	DEAL	
93	2	VALVOLA DI NON RITORNO	DEAL	
94	2	VALVOLA DI NON RITORNO	DEAL	
95	2	VALVOLA DI NON RITORNO	DEAL	
96	2	VALVOLA DI NON RITORNO	DEAL	
97	2	VALVOLA DI NON RITORNO	DEAL	
98	2	VALVOLA DI NON RITORNO	DEAL	
99	2	VALVOLA DI NON RITORNO	DEAL	
100	2	VALVOLA DI NON RITORNO	DEAL	

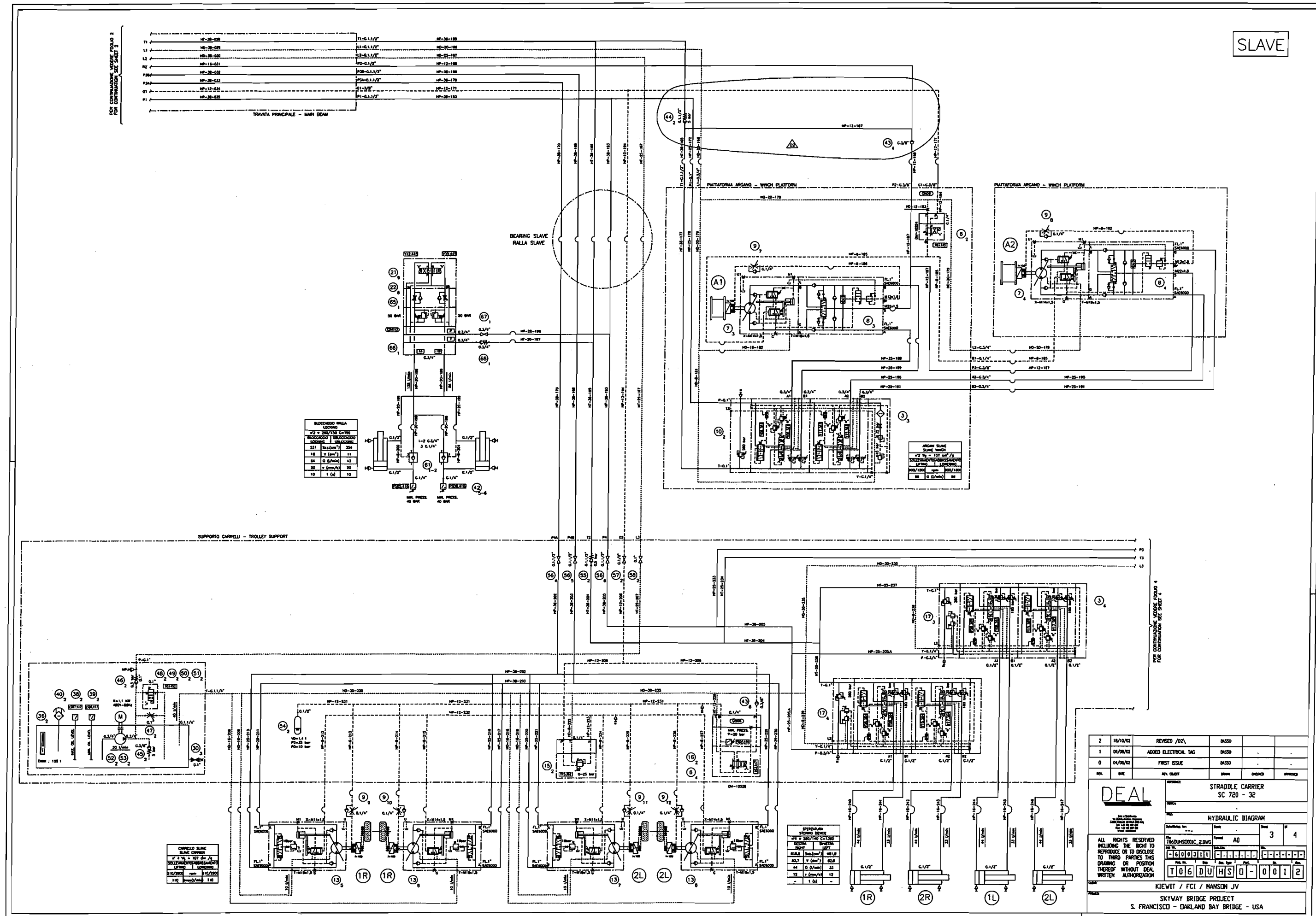
DEAL

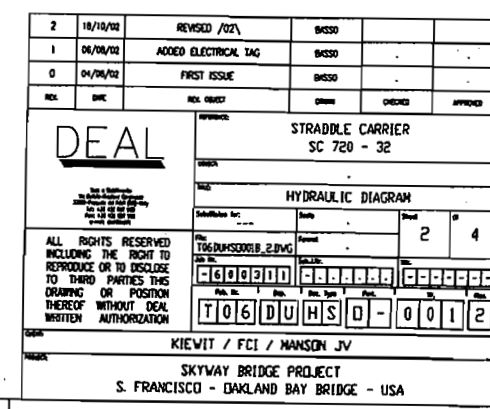
STRADLE CARRIER
SC 720 - 32

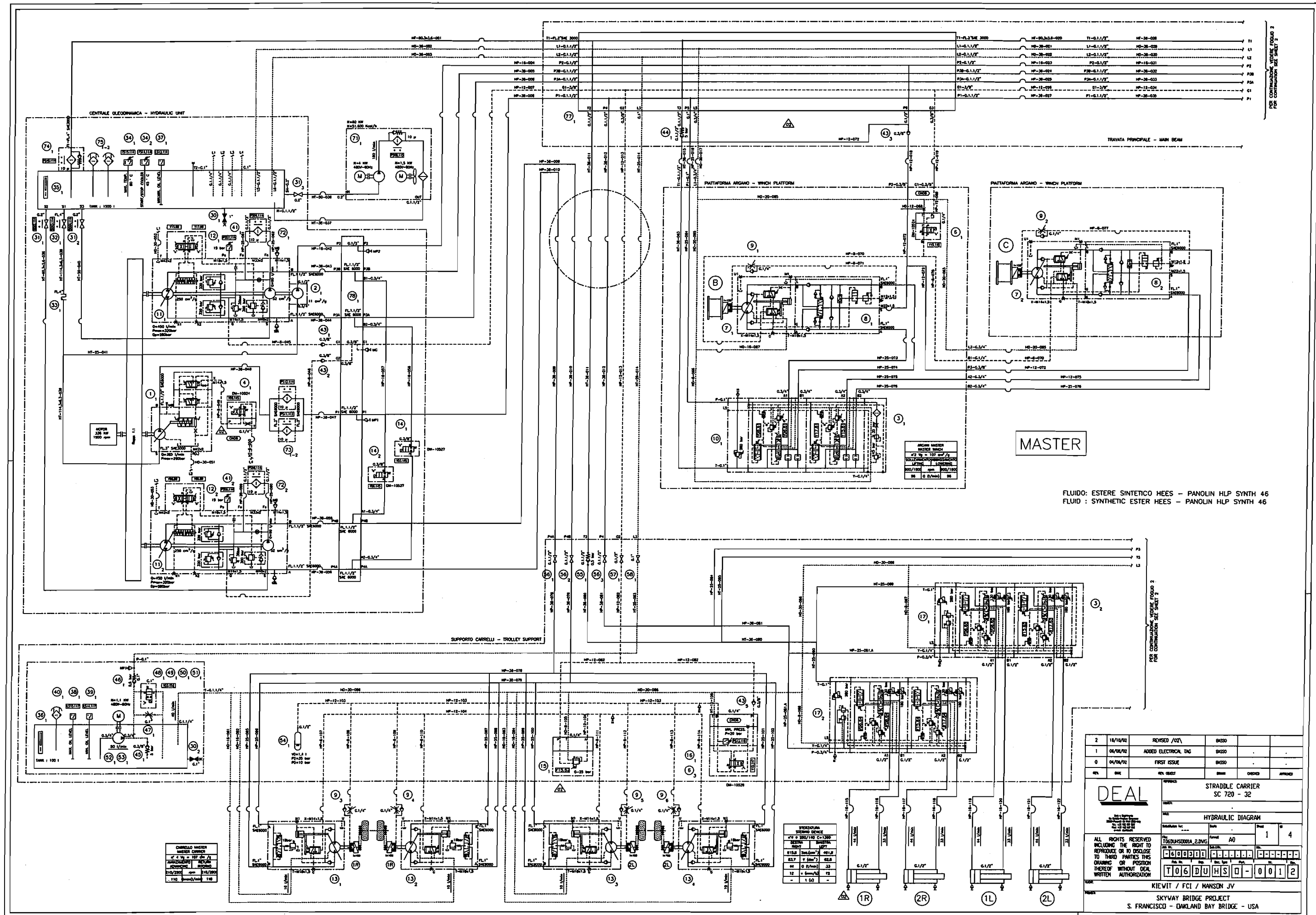
HYDRAULIC DIAGRAM

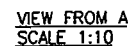
ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
WRITTEN AUTHORIZATION

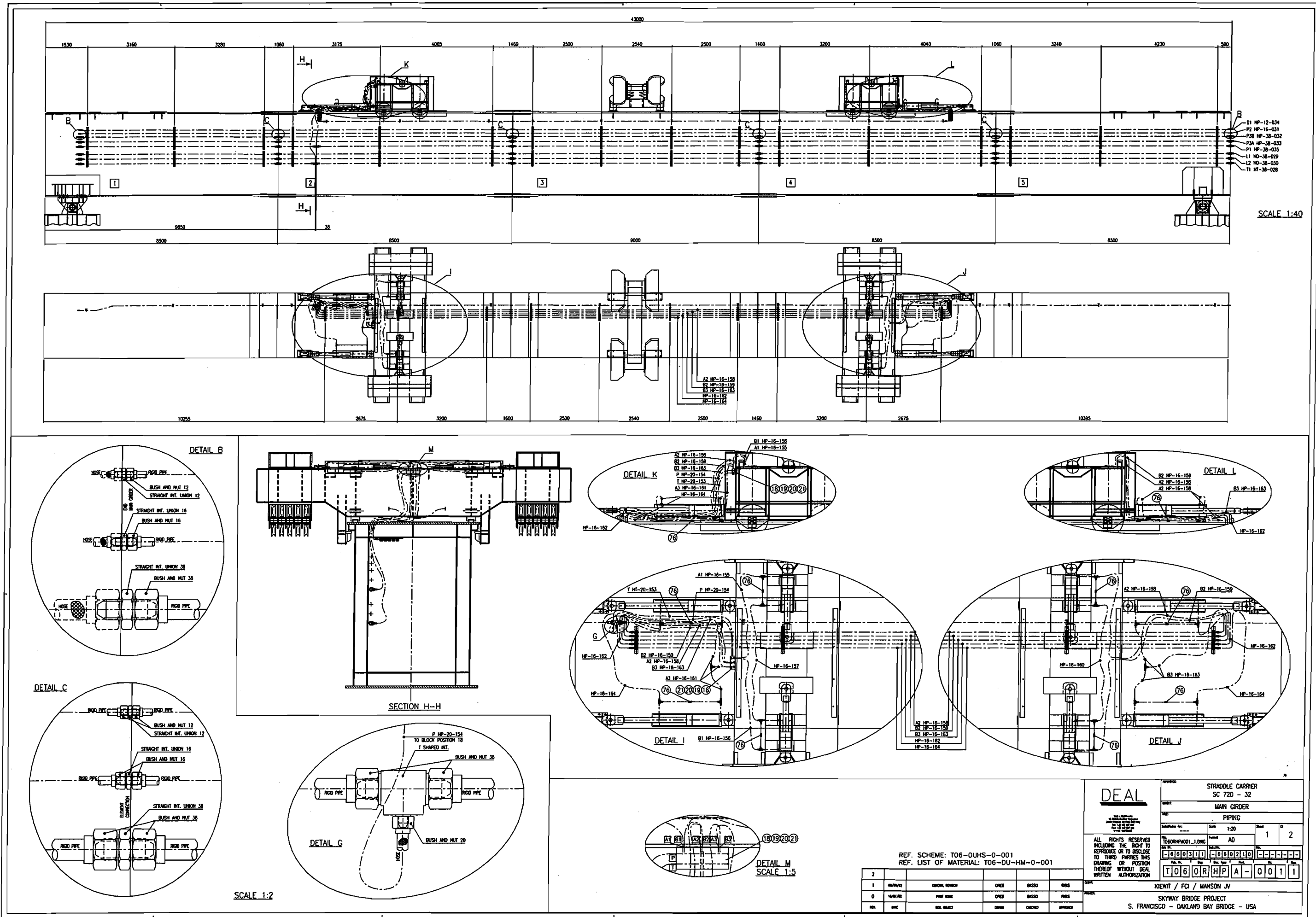
KIEWIT / FCI / MANSON JV
SKYWAY BRIDGE PROJECT
S. FRANCISCO - OAKLAND BAY BRIDGE - USA

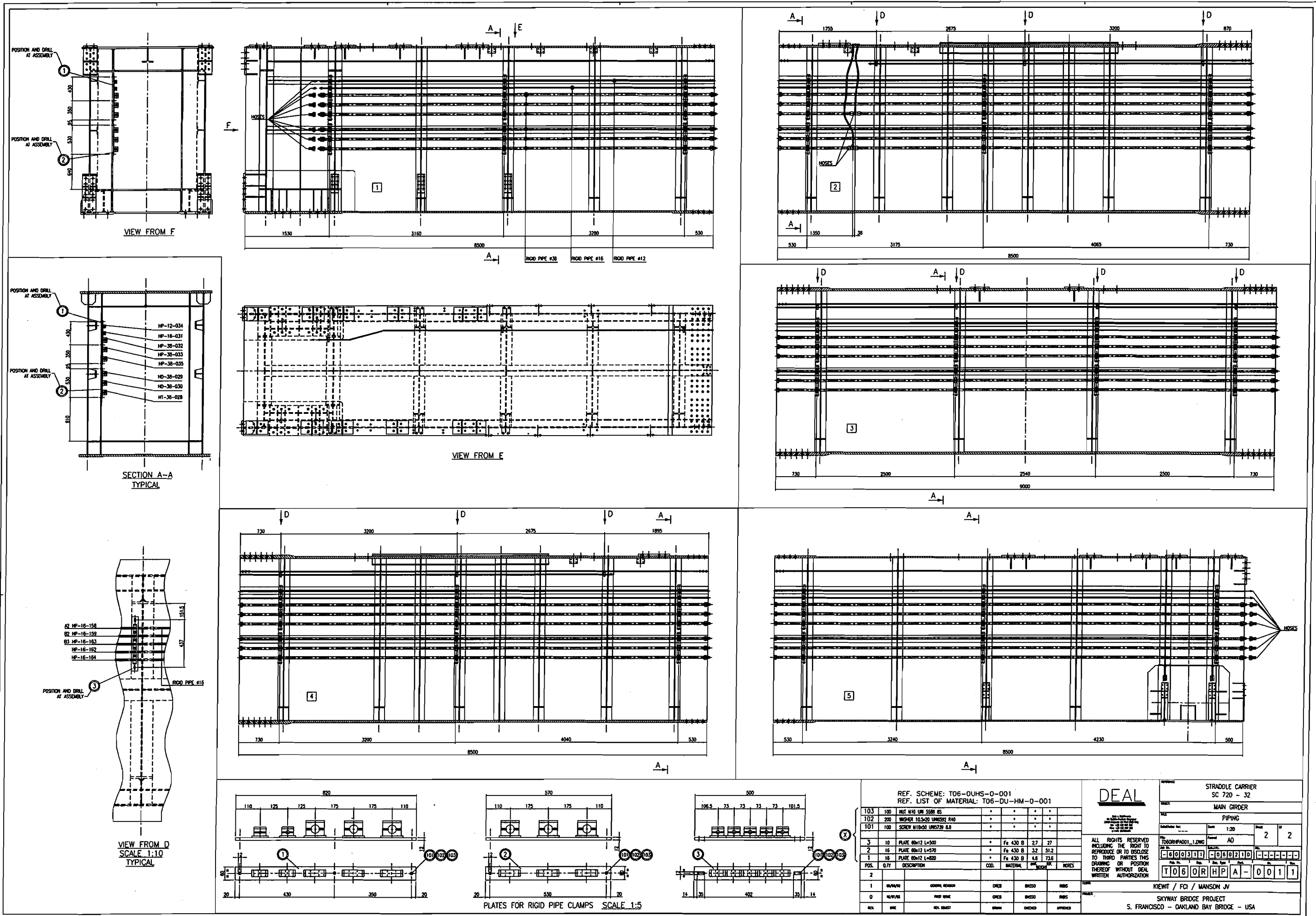






[illegible]





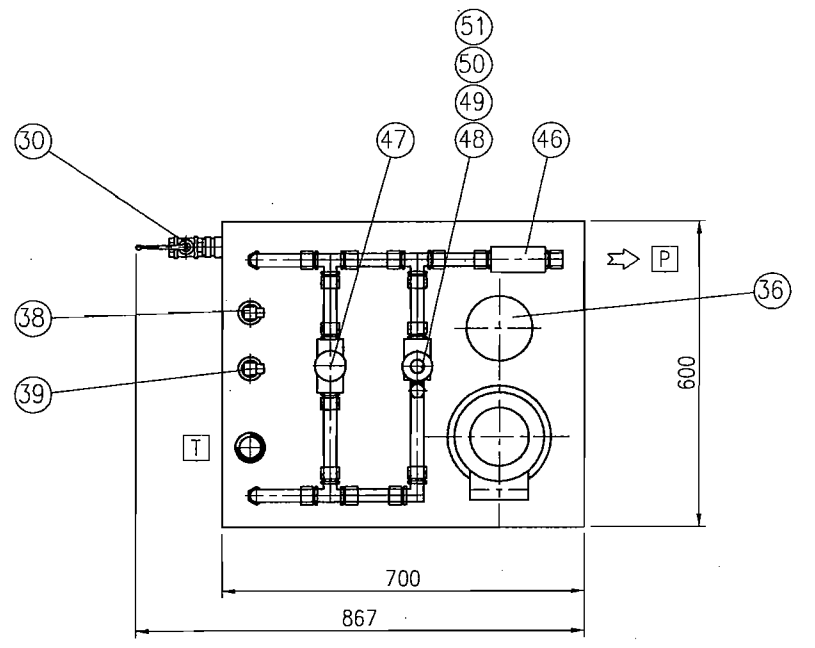
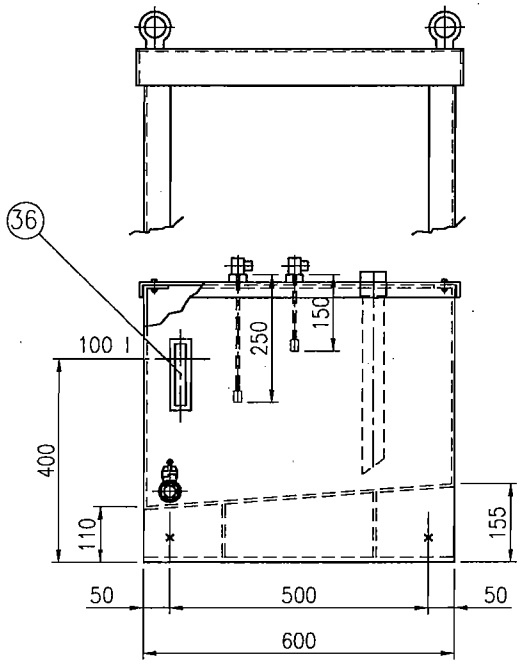
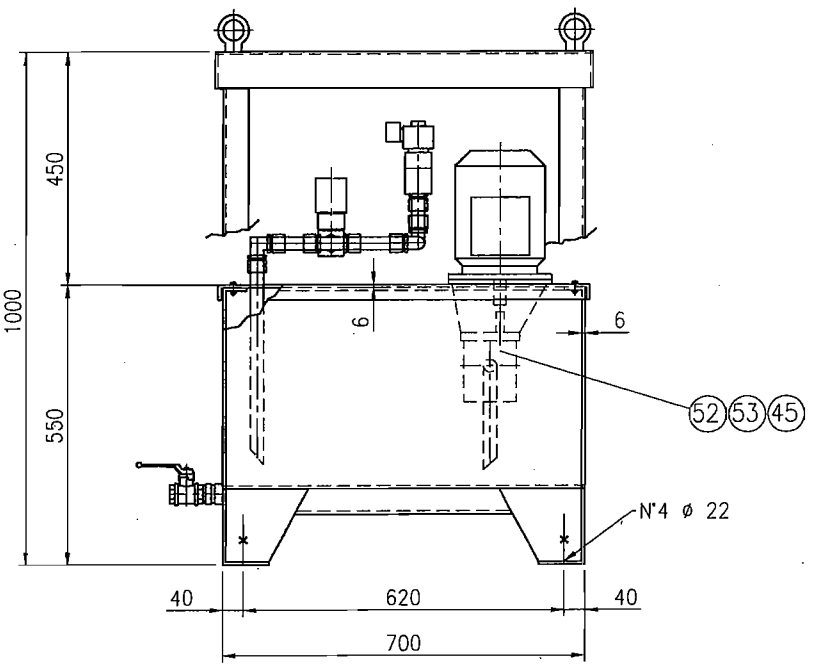


TABELLA CONNESSIONI
CONNECTION TABLE

PORT	CONNECTION TYPE
P	G.1"
T	G.1.1/4"

WELDING PROCEDURES :
The procedures used shall be qualified according to EN 288-3, D.M. 09-01-96, or ASME sect. IX

REMOVE SHARP CORNERS WITH R~2

WELDS (UNI 1310)
Where not otherwise indicated $\alpha=0.7$ of minimum thk. to be connected
(Continuous welds) $\alpha/2$
Edge preparation for welding in according to UNI 11001

TOLLERANCES
Dimension without tolerance indication
Structural steel work UNI ISO 2768-M
Mechanics UNI ISO 2768-F

FINISHING
Machining UNI 4600
| 0.8/ | 3.2/ | 12.5/ | 25/ |
| ▽ ▽ ▽ ▽ |
TOLLERANCES
Fit ISO (UNI 7218)

SCHEMA OLEODINAMICO: T06-DU-HS-0-001
HYDRAULIC DIAGRAM : T06-DU-HS-0-001

2					
1					
0	25/06/02	FIRST ISSUE	BASSO		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED
DEAL Sede e Stabilimento Via Bultrio-Frasane Capaccio 33050-Pozzuolo del Friuli (UD)-Italy Tel.: +39 432 607 900 Fax.: +39 432 607 902 e-mail: deal@deal.it			REFERENCE: STRADDLE CARRIER SC 720 - 32		
			OBJECT: -		
			TITLE: HYDRAULIC UNIT		
Substitutes for: ---		Scale: 1:10	Sheet: 1	Of: 1	
File: T06DUHK001.DWG		Format: A2			
Job Nr: -600311		Sub Nr: -060750	Rev: - - - - -		
Tab. Nr.	Dep.	Doc. Type	Part.	Nr.	Rev.
T06	DU	HK	-	001	0
CLIENT: KIEWIT / FCI / MANSON JV					
PROJECT: SKYWAY BRIDGE PROJECT S. FRANCISCO - PAKI AND BAY BRIDGE - USA					

NOTE GENERALI - GENERAL NOTE

Prevedere dei pannelli di chiusura asportabili sui quattro lati dotati di opportune aperture per l'uscita dei tubi e la ventilazione dei motori elettrici.

To provide removable panel on four side of the group with suitable opening for piping connection and ventilation of the electric motor.

I motori elettrici dovranno essere installati su supporti antivibranti ed il piping di collegamento delle pompe sarà realizzato con tubo flessibile a giunti elastici.

The electric motor will be installed on vibration damper and piping connection of the pump will be done with flexible hose or expansion joint.

Tutte le tubazioni di ritorno e aspirazione dovranno terminare al di sotto del livello minimo del serbatoio.

All the return and suction pipe must finish under the minimum level of the tank.

Il serbatoio dovrà essere dotato di opportuni portelli di ispezione su uno o più lati.

The tank will be equipped with inspection door on one or more side.

Materiale serbatoio : Fe 360 B

Tank material: Fe 360 B

Colorazione esterna: RAL 3000

External color: RAL 3000

Tutte le connessioni dovranno essere contrassegnate come da indicazioni riportate sullo schema oleodinamico corrispondente.

All the connection have to be marked according to the hydraulic diagram.

Tutti i tubi flessibili dovranno riportare la data di fabbricazione.

All the flexible hose have to be marked with the manufacturing date.

N° 2 CENTRALI OLEODINAMICHE
N° 2 HYDRAULIC UNIT

TOTAL WEIGHT = 150 Kg

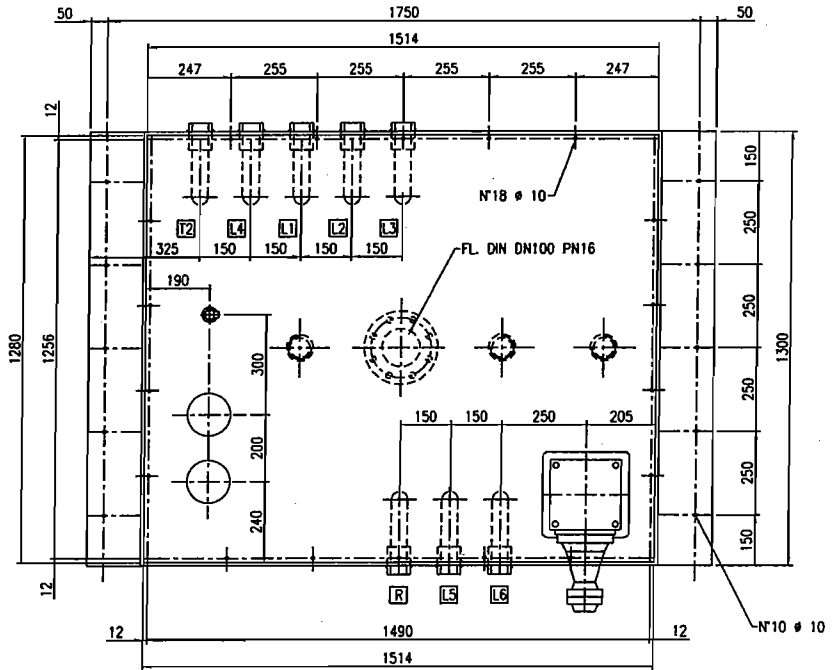
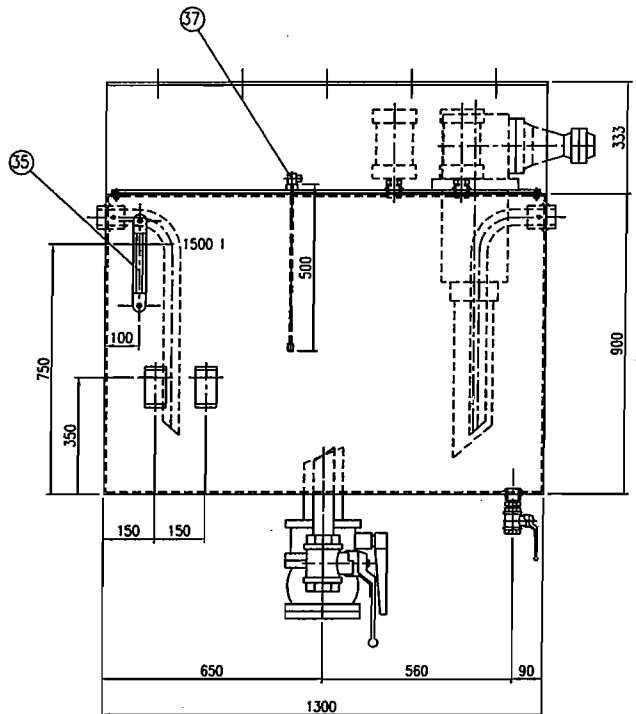
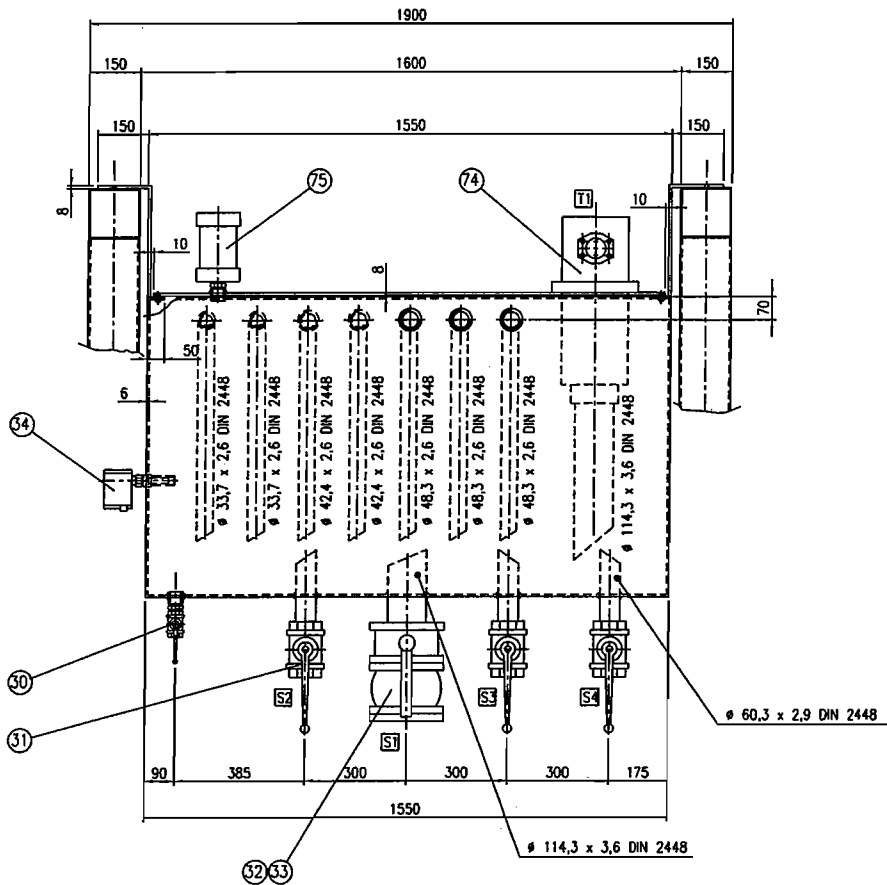


TABELLA CONNESSIONI
CONNECTION TABLE

PORT	CONNECTION TYPE
S1	FL DN 100 UNI PN16
S2	G.2"
S3	G.2"
S4	G.2"
L1	G.1.1/4"
L2	G.1.1/4"
L3	G.1.1/4"
L4	G.1"
L5	G.1.1/2"
L6	G.1.1/2"
T1	FL.2" SAE 3000
T2	G.1"
R	G.1.1/2"

WELDING PROCEDURES :
The procedures used shall be
qualified according to EN 288-3,
D.M. 09-01-96, or ASME sect. IX

REMOVE SHARP CORNERS
WITH R=2

WELDS (UNI 1310)
When not otherwise indicated welds
of minimum fillet to be connected
(continuous welds)

Edge preparation for welding
in accordance with UNI 11001

TOLERANCES
Dimension without tolerance indication
Standard steel work UNI ISO 2768-MS
Mechanics UNI ISO 2768-M

FINISHING
Mechanics UNI 4600

TOLERANCES
Fit ISO (UNI 7218)

NOTE GENERALI - GENERAL NOTE

Tutte le tubazioni di ritorno e aspirazione dovranno terminare al di sotto del livello minimo del serbatoio.
All the return and suction pipe must finish under the minimum level of the tank.

Il serbatoio dovrà essere dotato di opportuni portelli di ispezione su uno o più lati.
The tank will be equipped with inspection door on one or more side.

Materiale serbatoio : Fe 360 B
Tank material: Fe 360 B
Colorazione esterna: RAL 3000
External color: RAL 3000

Tutte le connessioni dovranno essere contrassegnate come da indicazioni riportate sulla schema oleodinamica corrispondente.
All the connection have to be marked according to the hydraulic diagram.

SCHEMA OLEODINAMICO: T06-DU-HS-0-001
HYDRAULIC DIAGRAM : G10-DU-HS-0-001

2					
1	08/07/02	REVISED	BASSO		
0	26/06/02	FIRST ISSUE	BASSO		
REV.	DATE	REV. OBJECT	DRAWN	CHECKED	APPROVED

DEAL

STRADDLE CARRIER
SC 720 - 32

HYDRAULIC UNIT

Scale: 1:10

Sheet: 1 of 1

ALL RIGHTS RESERVED
INCLUDING THE RIGHT TO
REPRODUCE OR TO DISCLOSE
TO THIRD PARTIES THIS
DRAWING OR POSITION
THEREOF WITHOUT DEAL
AUTHORIZATION

PROJ. T06DUK0002.DWG

Sub.JOB: A1

Job No.: -600311

Sub.JOB: -060750

Rev.: - - - - -

Pub. No.: T06DUK0002

Doc. Type: 0

Part: 0

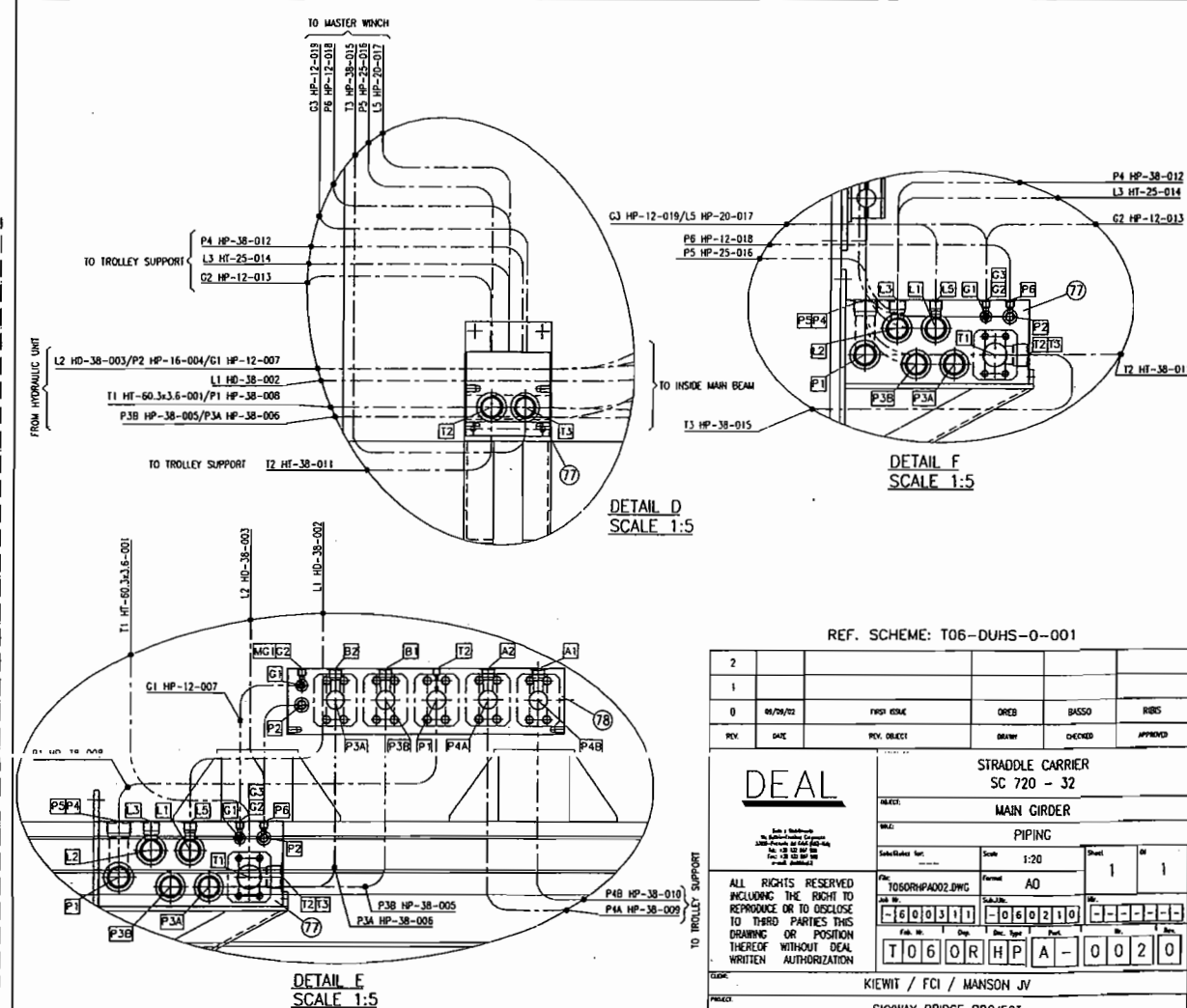
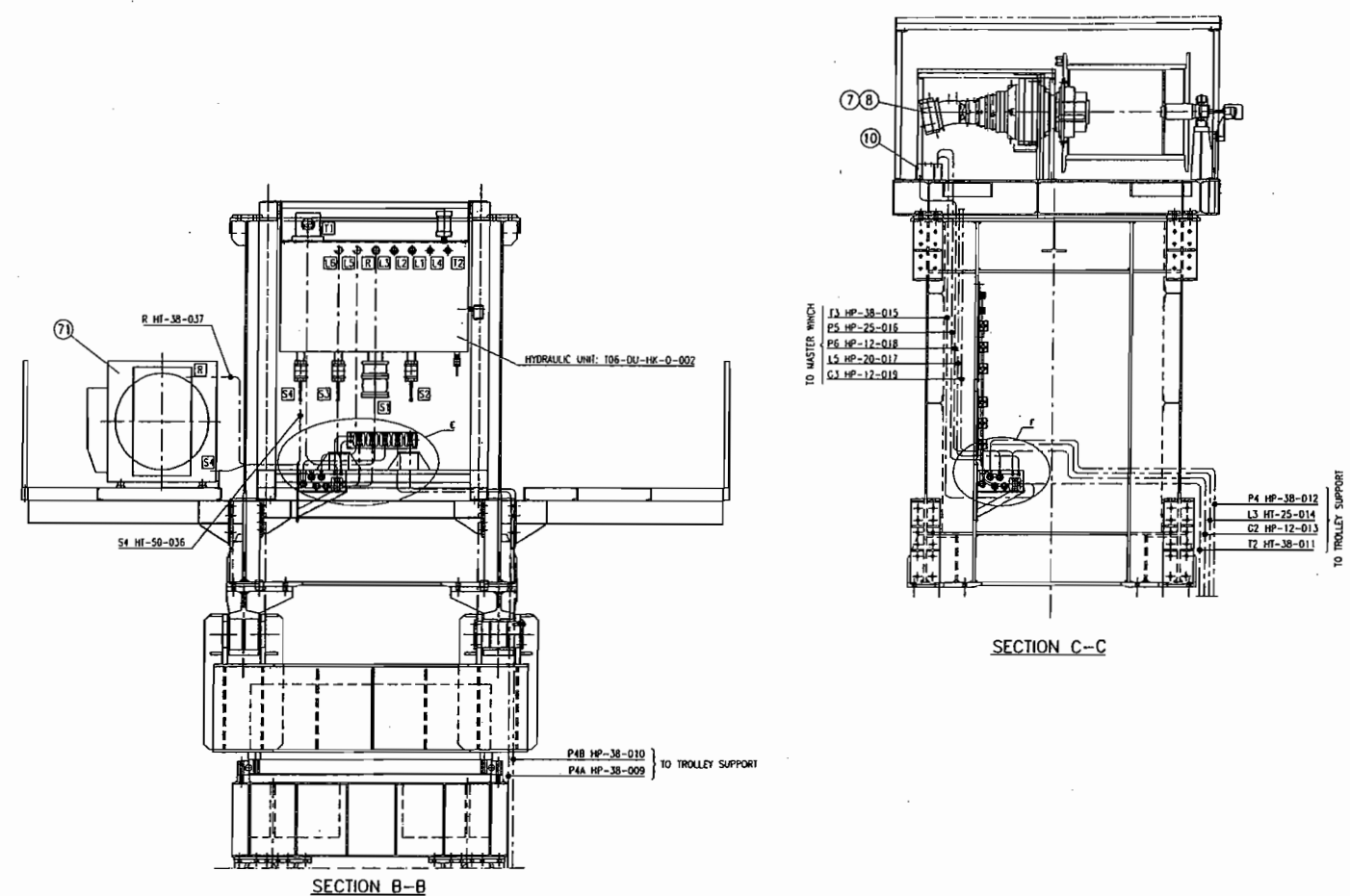
Rev.: 0020

CUR: KIEWIT / FCI / MANSON JV

PROJ: SKYWAY BRIDGE PROJECT
S. FRANCISCO - OAKLAND BAY BRIDGE - USA

N° 1 CENTRALE OLEODINAMICA
N° 1 HYDRAULIC UNIT

TOTAL WEIGHT = 550 Kg



REF. SCHEME: T06-DUHS-0-001									
2									
1									
06/06/75		FIND ISSUE		ORIG		BASSO		IBBS	
PKY	DATE	PKY OBJECT		SHOW		DECODED		APPROVED	
DEAL (see 1-2-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-9									

