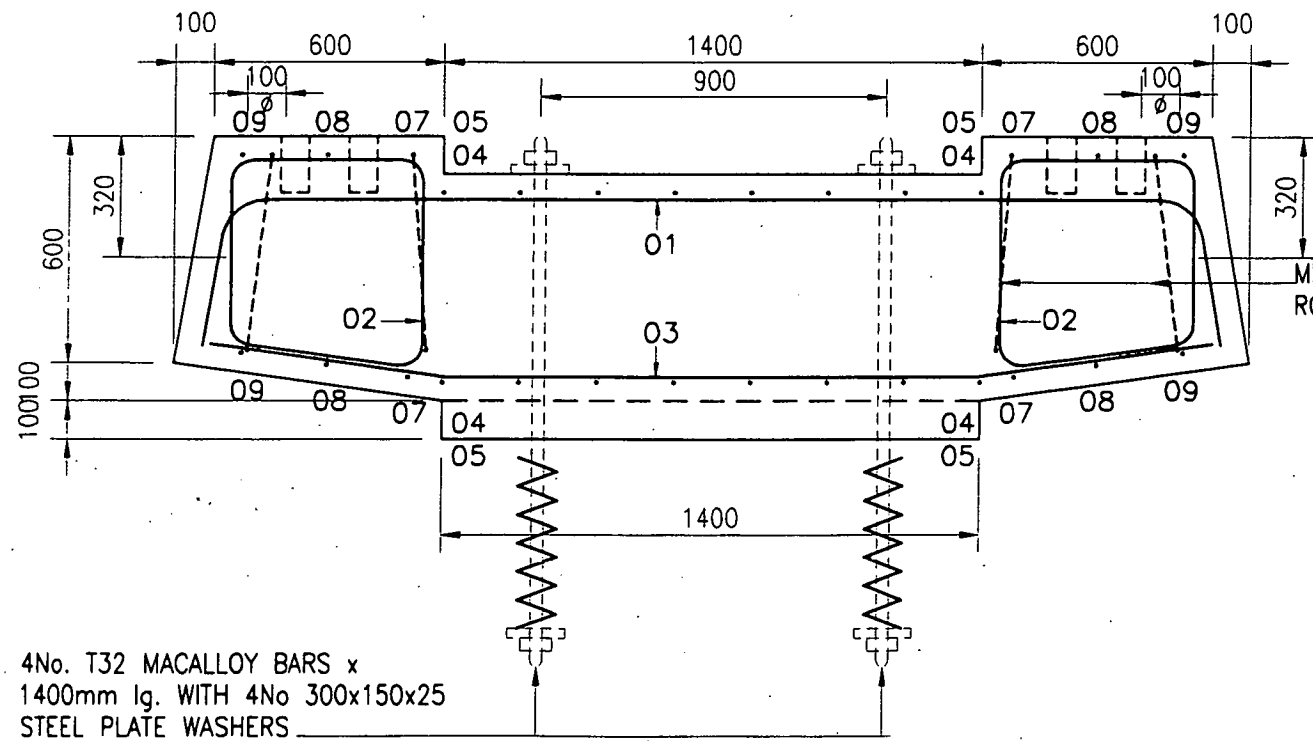
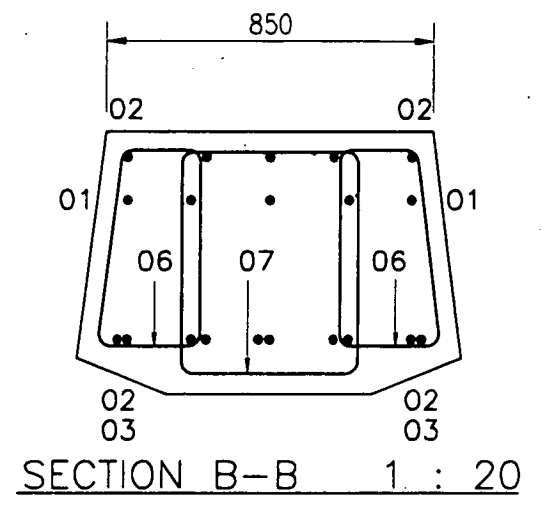
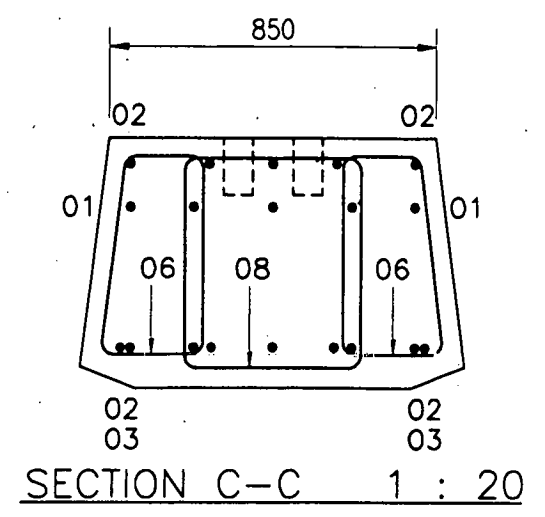
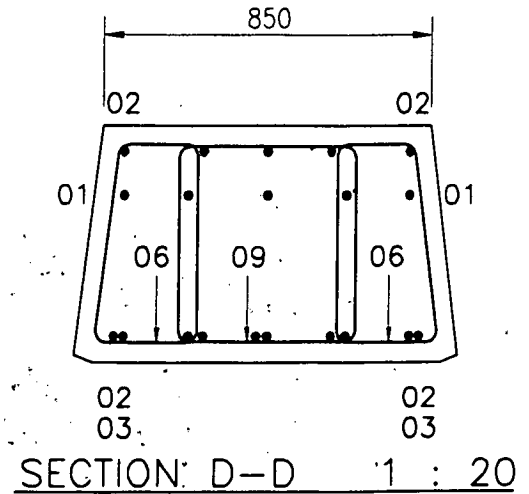
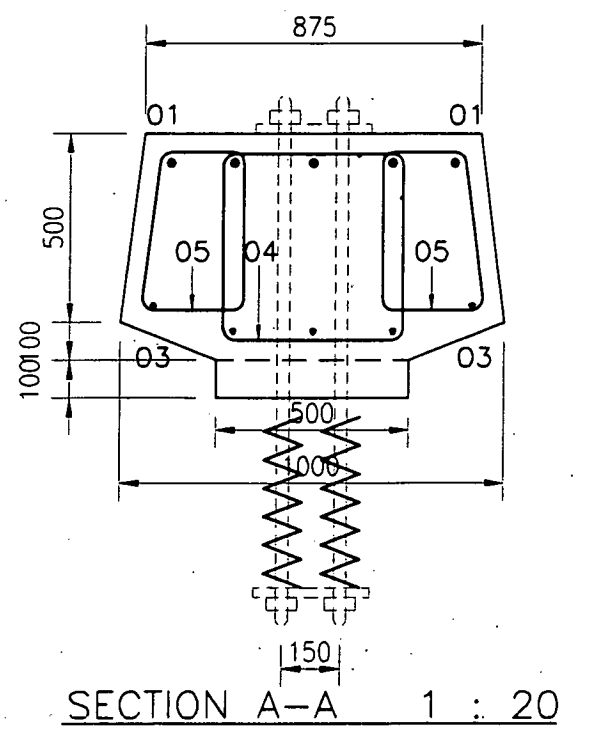


4 No. 75mm ϕ EXPAMET BOLT POCKETS 150mm dp. EACH SIDE OF CROSSHEAD



Mk. 06 MAY BE ROTATED TO FIT ROUND Mk. 02



4No. T32 MACALLOY BARS x 1400mm lg. WITH 4No 300x150x25 STEEL PLATE WASHERS

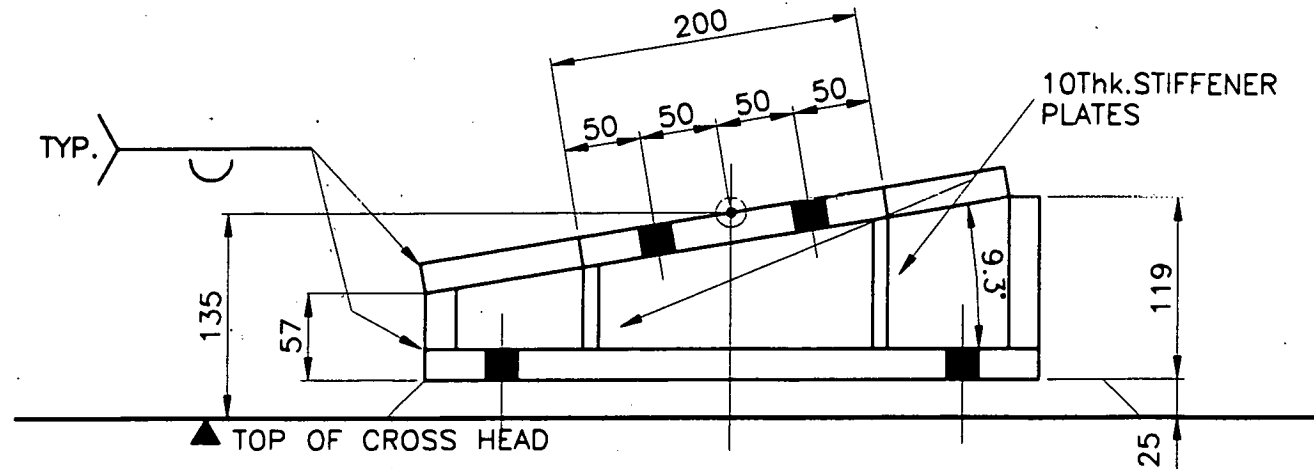
B	POCKET POSITIONS UPDATED TO SUIT BEARING	I.L.	2/5/2000
A	EXPAMET BOLT POCKETS ADDED	AMcD	28/1/2000
Mk.	Revisions	By	Date
		JOB No.	CA 150
		DRAWING No.	2/60
		SCALES	1 : 20
		AMENDMENT	B
		DRAWN BY	
		DATE	25/10/99

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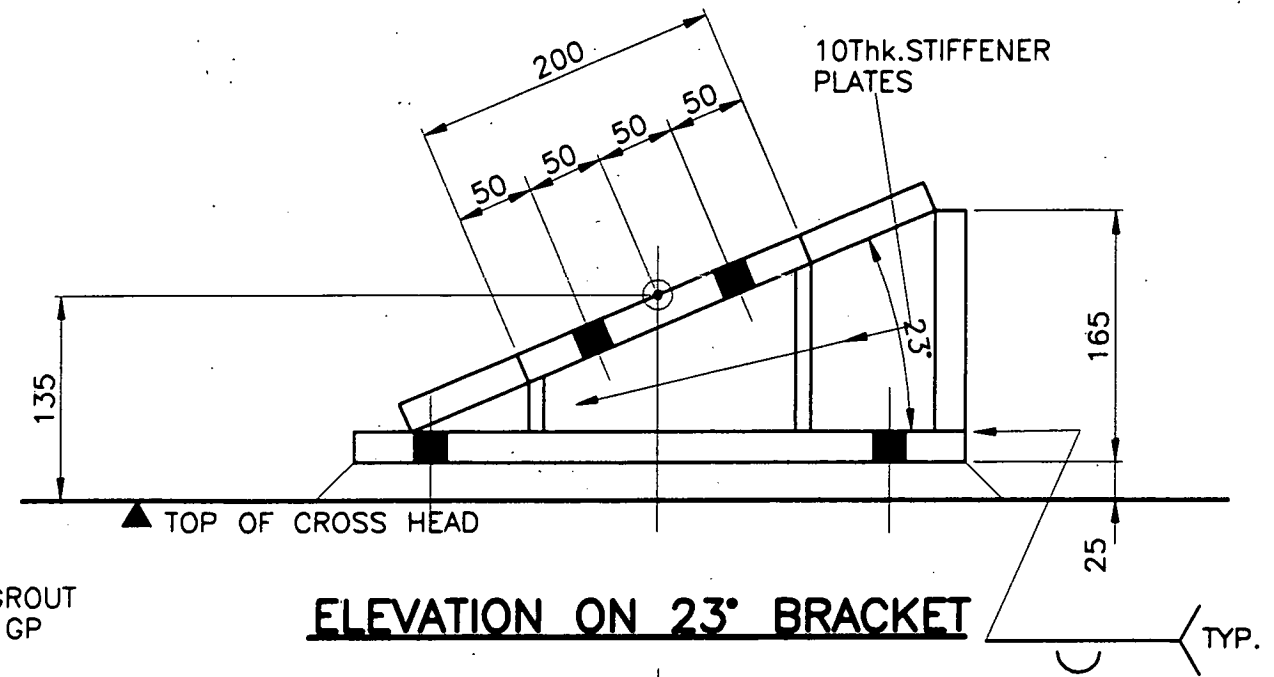
CAIRNGORM CHAIRLIFT COMPANY :-
CAIRNGORM FUNICULAR

R-C DETAILS CROSSHEAD 1
91 No. REQUIRED THUS

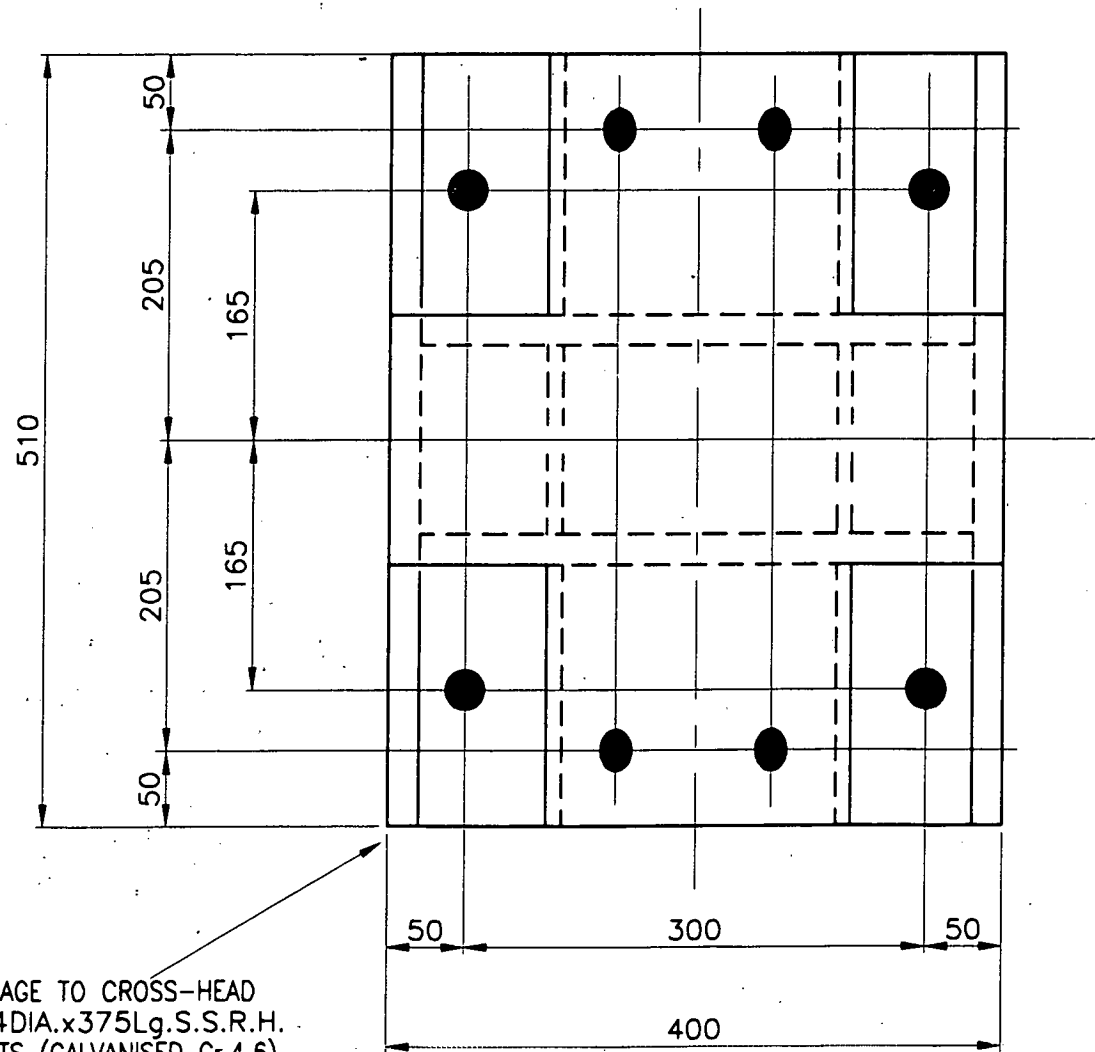
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ELEVATION ON 9.3° BRACKET

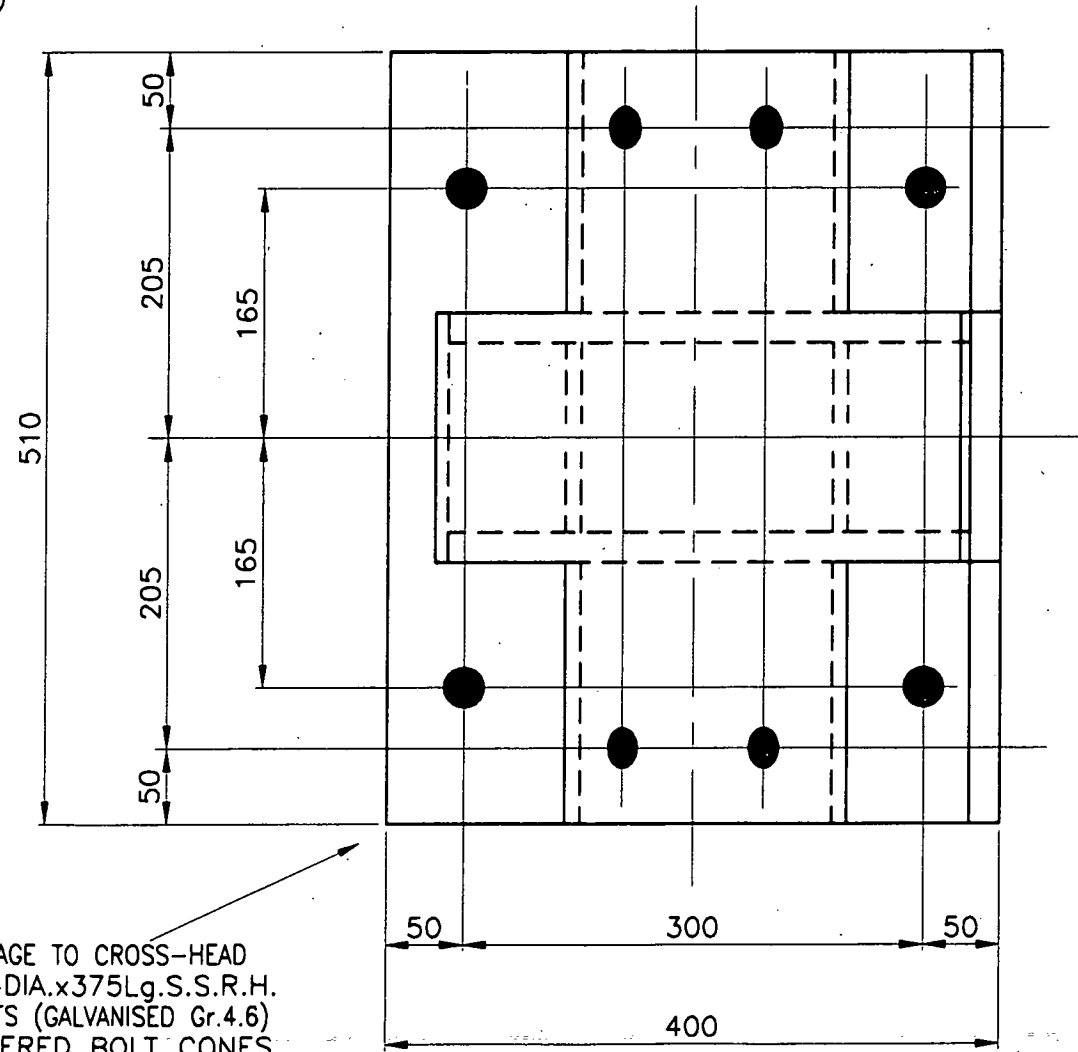


ELEVATION ON 23° BRACKET



PLAN ON 9.3° BRACKET

ANCHORAGE TO CROSS-HEAD
4-M24DIA.x375Lg.S.S.R.H.
H.D.BOLTS (GALVANISED Gr.4.6)
IN TAPERED BOLT CONES
WITH 100x100x12 PLATE
WASHERS



PLAN ON 23° BRACKET

ANCHORAGE TO CROSS-HEAD
4-M24DIA.x375Lg.S.S.R.H.
H.D.BOLTS (GALVANISED Gr.4.6)
IN TAPERED BOLT CONES
WITH 100x100x12 PLATE
WASHERS

ALL PLATES 20mm.Thk. (U.O.N.)
ALL HOLES 27DIA.FOR M24DIA.Gr.8.8 BOLTS (U.O.N.)
ALL WELDS 8 F.W. (U.O.N.)

FOR LOCATION OF BRACKETS
SEE DRG.CA150/2/42

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CAIRNGORM CHAIRLIFT COMPANY
CAIRNGORM FUNICULAR

DETAILS OF TAPERED STEEL
BEARING SUPPORT BRACKETS

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JOB No.	CA 150
DRAWING No.	2/46
SCALES	1 : 5
AMENDMENT	A
DRAWN BY	
DATE	21/10/99

A ANGLE RANGE AMENDED FROM 4.1°-23° IL 28-1-00

Client
 CAIRNGORM CHAIRLIFT
 COMPANY

Project
 CAIRNGORM FUNICULAR

Drawing
 PRECAST CONCRETE BEAM
 DETAIL 1 OF 2

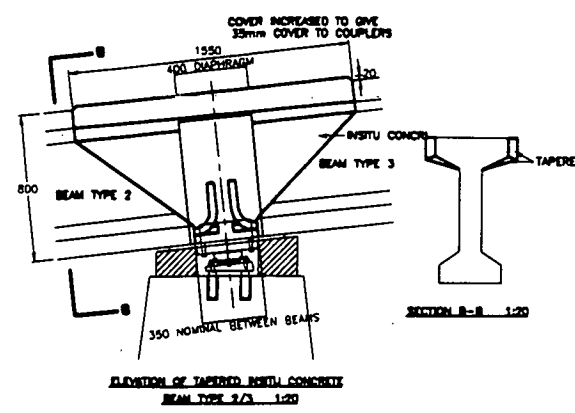
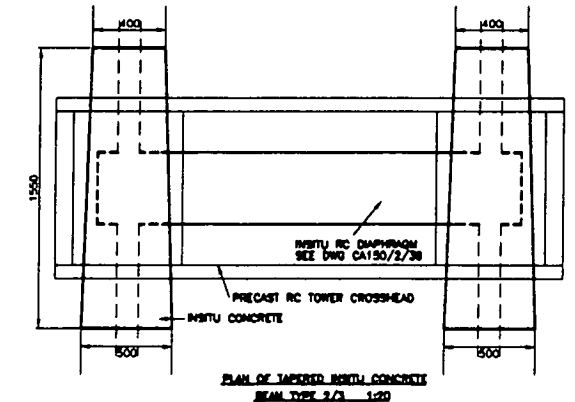
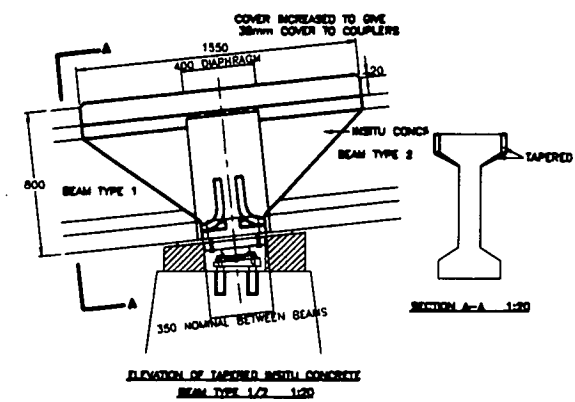
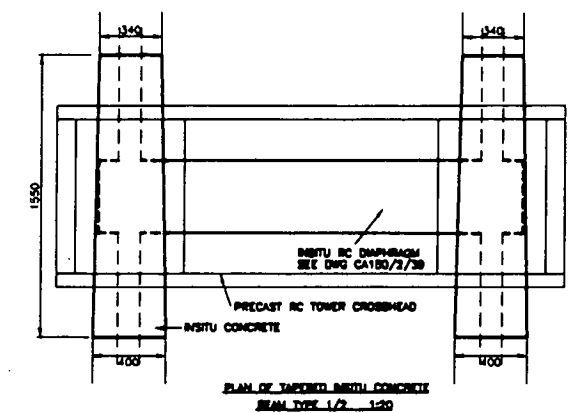
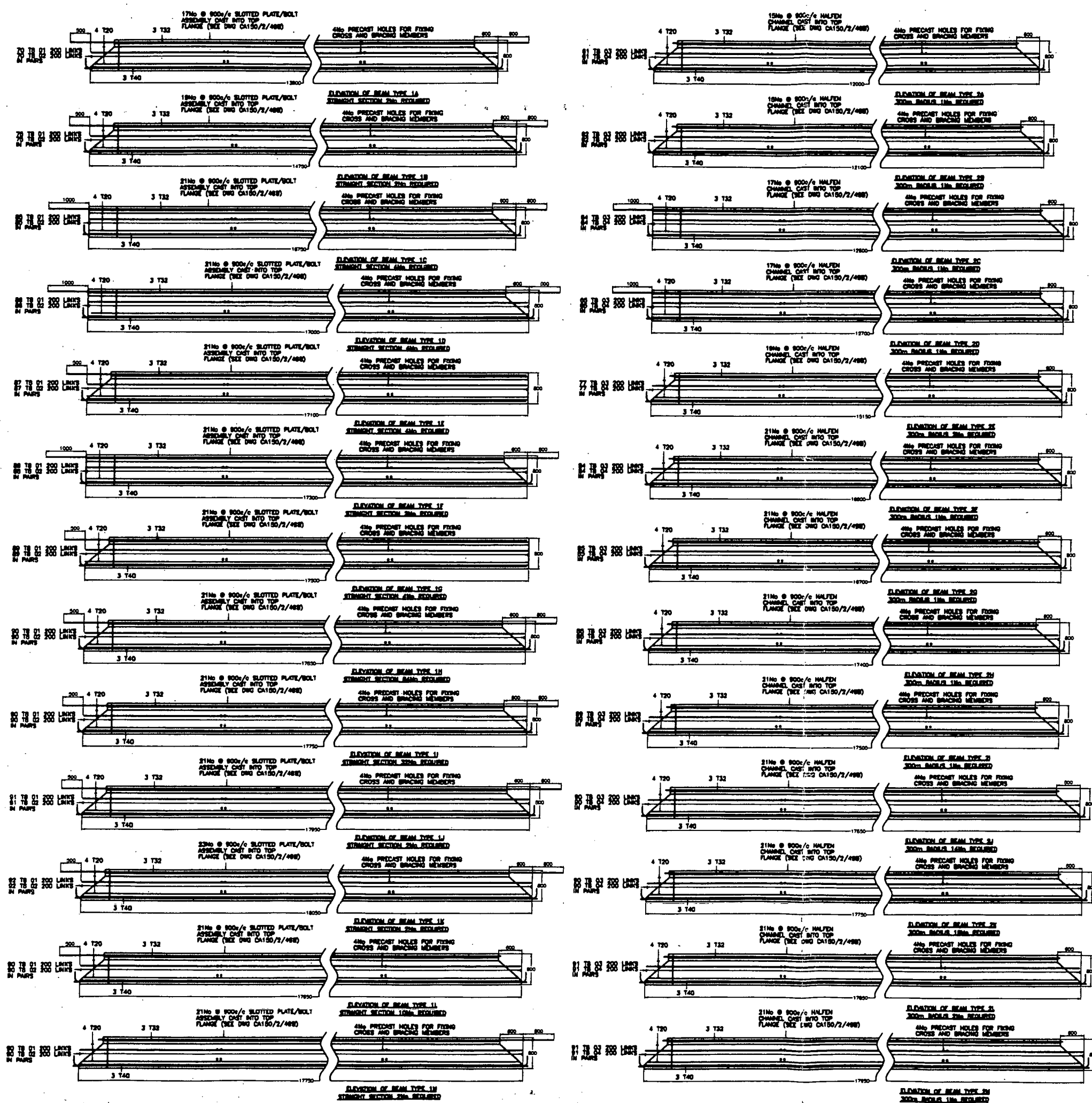
Drawing No. CA150/2/76
 Rev. D
 Date 4/5/00
 Scale 1:50

Revisions

Revision	Date	By
A	20/8/00	
Precast concrete beam amendment		
See DWG CA150/2/79 (2 OF 2) for		
Precast concrete beam amendment		
Section amendments. Top and bottom		
steel details added. Beam/Anchor		
block detail added.		
B	20/7/00	
Beam/Reinforcement amendments.		
C	17/8/00	
Beam/Reinforcement amendments		
to Anchor Blocks.		
D	24/8/00	
Details added.		

CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY

REDUCED FROM A1



PRELIMINARY

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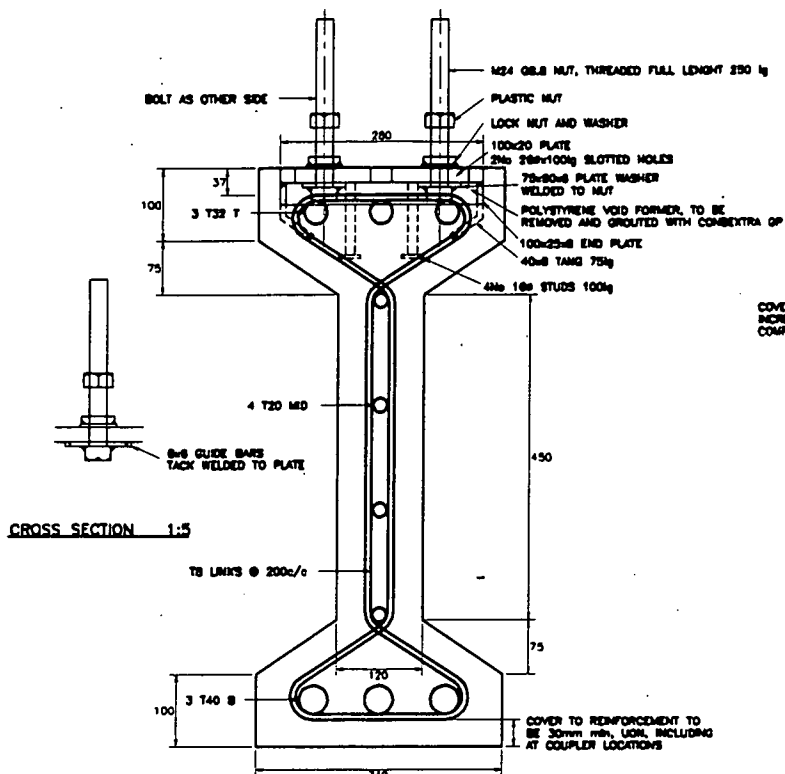
Client
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Project
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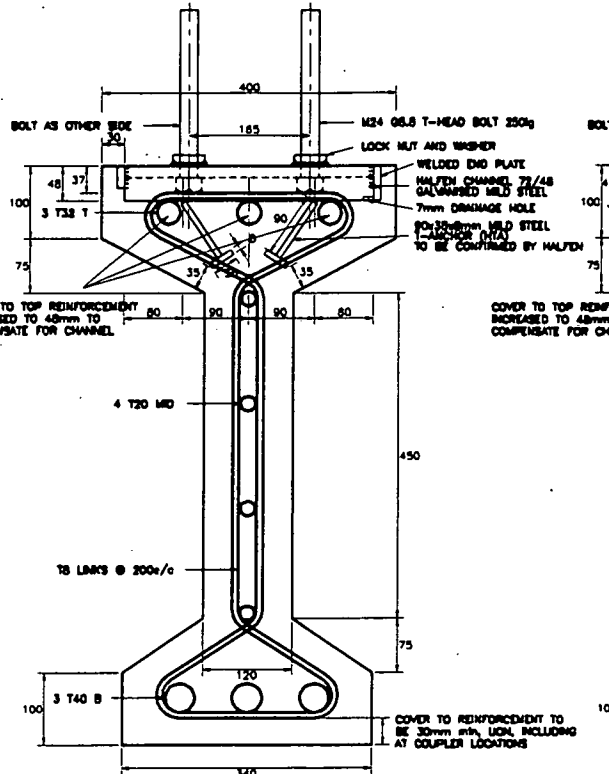
Drawing
RAIL BOLT/BEAM SUPPORT/ AND BEARING DETAILS

Drawing No. CA150/2/49
 Date 26/4/00
 Rev. B
 Scale AS SHOWN

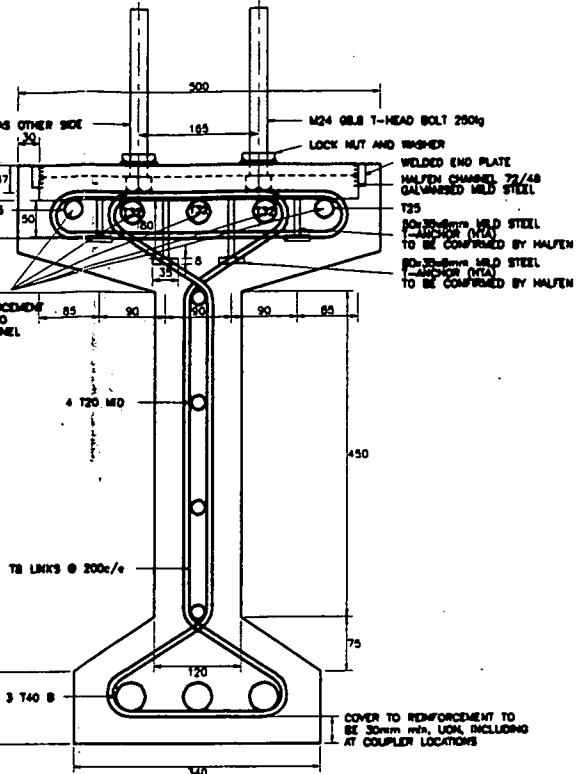
Revisions
 Date
 A 8/5/00
 Table and text amendments.
 B 22/6/00
 Rail fixing amendments. Dimensions added. Text amendments. Beam splice details added.



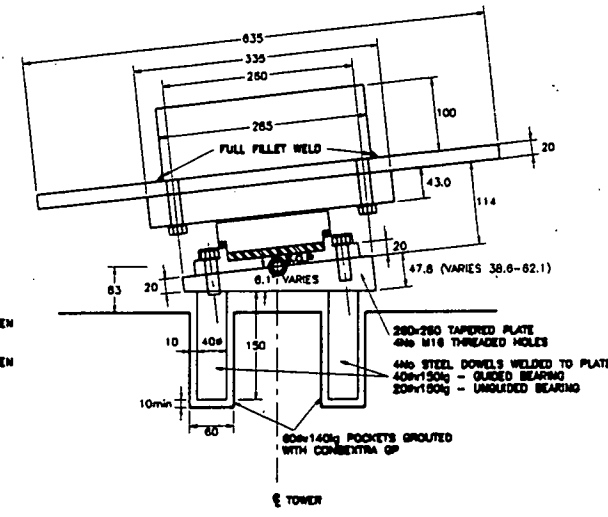
RAIL BOLT DETAIL
 STRAIGHT SECTION BEAM TYPE 1
 SECTION THROUGH BEAM 1:5



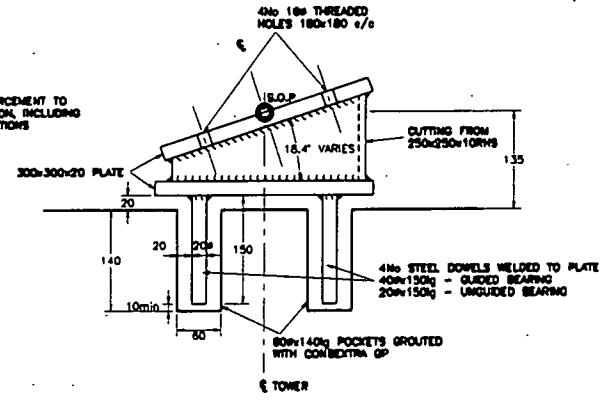
RAIL BOLT DETAIL
 300m RADIUS BEAM TYPE 2
 SECTION THROUGH BEAM 1:5



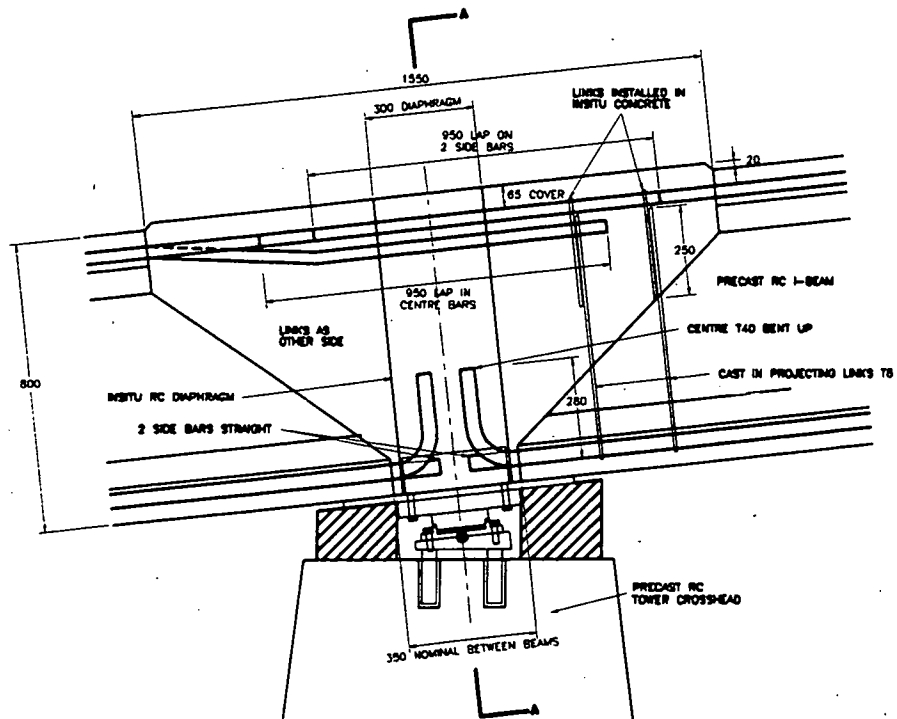
RAIL BOLT DETAIL
 200m RADIUS BEAM TYPE 3
 SECTION THROUGH BEAM 1:5



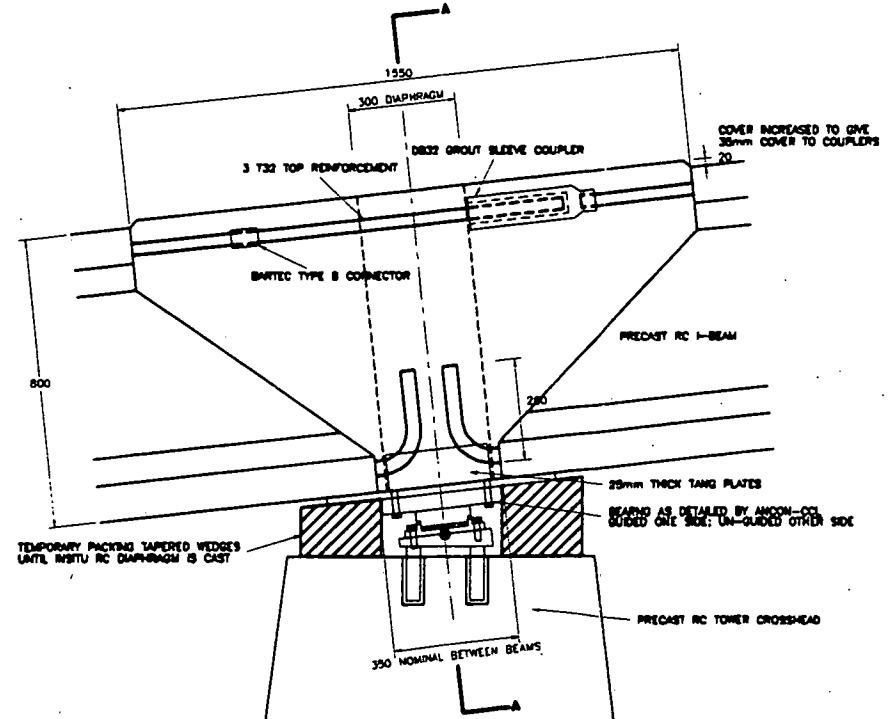
TAPERED PLATE DETAIL
 ANGLES 4.1° TO 8.1°
 DETAIL B1 1:5



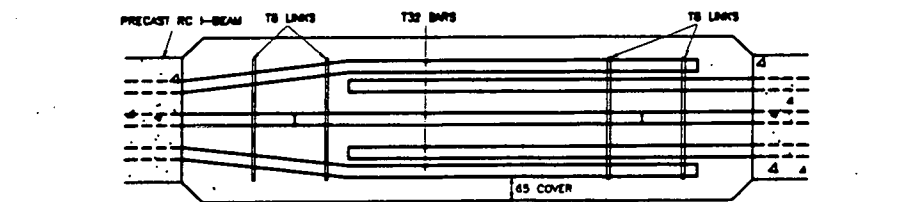
STEEL SHOE DETAIL
 ANGLES 9.2° TO 2.3°
 DETAIL B2 1:5



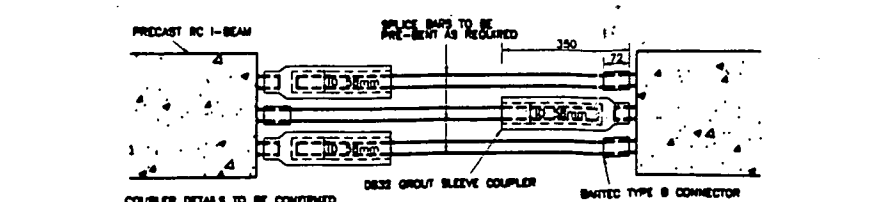
BEAM SPLICE DETAIL (8.1°)
 BEAM STRAIGHT ON PLAN (TYPE 1)
 SIDE ELEVATION 1:10



BEAM SPLICE DETAIL (8.1°)
 BEAM CURVED ON PLAN (TYPE 2+3)
 SIDE ELEVATION 1:10



BEAM SPLICE DETAIL
 BEAM STRAIGHT ON PLAN (TYPE 1)
 PLAN 1:10



BEAM SPLICE DETAIL
 BEAM CURVED ON PLAN (TYPE 2+3)
 PLAN 1:10

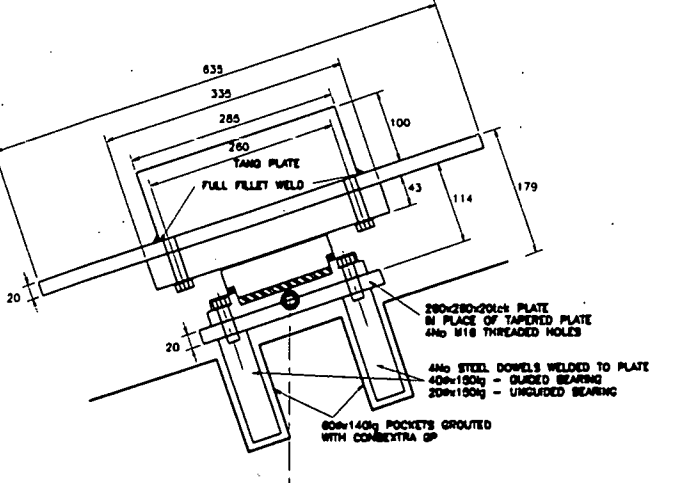
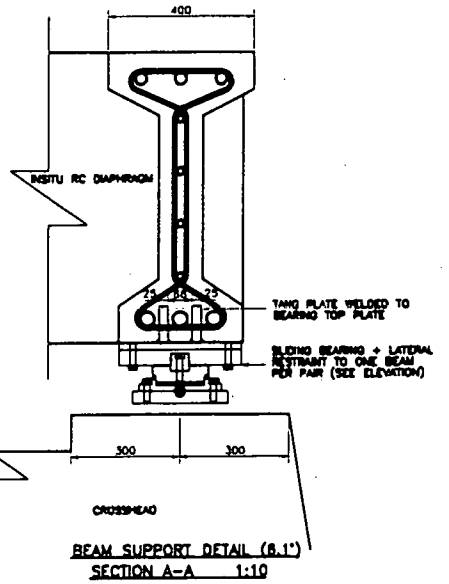


PLATE DETAIL FOR ANCHOR BLOCKS
 DETAIL B3 1:5



BEAM SUPPORT DETAIL (8.1°)
 SECTION A-A 1:10

INDEX	ANGLE	PLATE	BEARING	INDEX	ANGLE	PLATE	BEARING
0	14.4	2x25	2x25	47	14.4	2x25	2x25
1	12.5	2x25	1A18	48	14.5	2x25	1A18
2	11	2x25	1A18	49	14.6	2x25	1A18
3	9.2	2x25	1A18	50	14.7	2x25	1A18
4	8.3	2x25	1A18	51	14.8	2x25	1A18
5	7.1	2x25	1A18	52	14.9	2x25	1A18
6	6.1	2x25	1A18	53	15.0	2x25	1A18
7	5.1	2x25	1A18	54	15.1	2x25	1A18
8	4.1	2x25	1A18	55	15.2	2x25	1A18
9	3.1	2x25	1A18	56	15.3	2x25	1A18
10	2.1	2x25	1A18	57	15.4	2x25	1A18
11	1.1	2x25	1A18	58	15.5	2x25	1A18
12	0.1	2x25	1A18	59	15.6	2x25	1A18
13	0.1	2x25	1A18	60	15.7	2x25	1A18
14	0.1	2x25	1A18	61	15.8	2x25	1A18
15	0.1	2x25	1A18	62	15.9	2x25	1A18
16	0.1	2x25	1A18	63	16.0	2x25	1A18
17	0.1	2x25	1A18	64	16.1	2x25	1A18
18	0.1	2x25	1A18	65	16.2	2x25	1A18
19	0.1	2x25	1A18	66	16.3	2x25	1A18
20	0.1	2x25	1A18	67	16.4	2x25	1A18
21	0.1	2x25	1A18	68	16.5	2x25	1A18
22	0.1	2x25	1A18	69	16.6	2x25	1A18
23	0.1	2x25	1A18	70	16.7	2x25	1A18
24	0.1	2x25	1A18	71	16.8	2x25	1A18
25	0.1	2x25	1A18	72	16.9	2x25	1A18
26	0.1	2x25	1A18	73	17.0	2x25	1A18
27	0.1	2x25	1A18	74	17.1	2x25	1A18
28	0.1	2x25	1A18	75	17.2	2x25	1A18
29	0.1	2x25	1A18	76	17.3	2x25	1A18
30	0.1	2x25	1A18	77	17.4	2x25	1A18
31	0.1	2x25	1A18	78	17.5	2x25	1A18
32	0.1	2x25	1A18	79	17.6	2x25	1A18
33	0.1	2x25	1A18	80	17.7	2x25	1A18
34	0.1	2x25	1A18	81	17.8	2x25	1A18
35	0.1	2x25	1A18	82	17.9	2x25	1A18
36	0.1	2x25	1A18	83	18.0	2x25	1A18
37	0.1	2x25	1A18	84	18.1	2x25	1A18
38	0.1	2x25	1A18	85	18.2	2x25	1A18
39	0.1	2x25	1A18	86	18.3	2x25	1A18
40	0.1	2x25	1A18	87	18.4	2x25	1A18
41	0.1	2x25	1A18	88	18.5	2x25	1A18
42	0.1	2x25	1A18	89	18.6	2x25	1A18
43	0.1	2x25	1A18	90	18.7	2x25	1A18
44	0.1	2x25	1A18	91	18.8	2x25	1A18
45	0.1	2x25	1A18	92	18.9	2x25	1A18
46	0.1	2x25	1A18	93	19.0	2x25	1A18

REDUCED FROM A1

REDUCED FROM A1

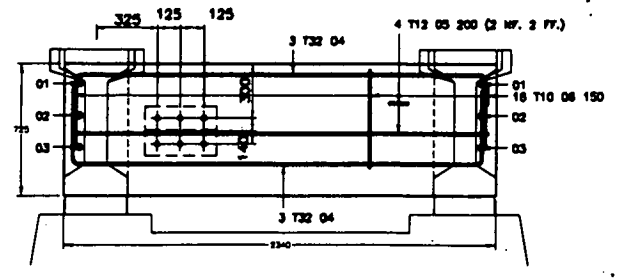
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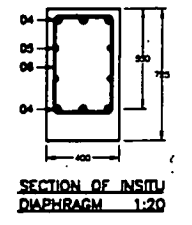
Project:
CAIRNGORM FUNICULAR

Drawing:
INSITU DIAPHRAGM DETAILS

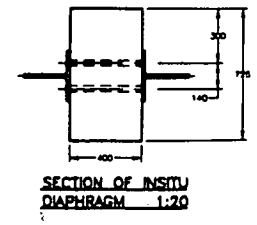
Drawing No.	CA150/2/39	Drawn By	
Rev A		Date	4/8/00
Scale	1:20		
Revisions		Date	By
A	Link spacing reduced to 75mm at towers 51, 52, 54 & 56	11/10/00	



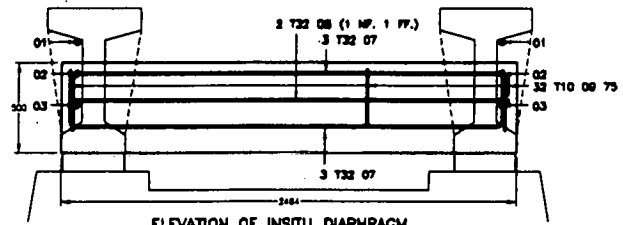
ELEVATION OF INSITU DIAPHRAGM
 ALL TOWERS EXCEPT 51, 52
 54 & 56 1:20



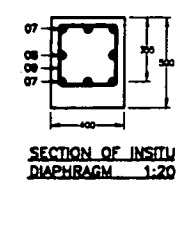
SECTION OF INSITU DIAPHRAGM 1:20



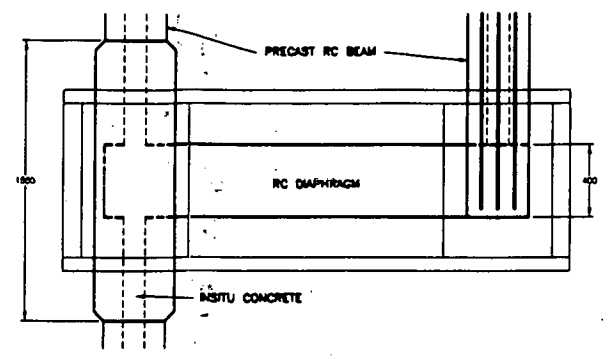
SECTION OF INSITU DIAPHRAGM 1:20



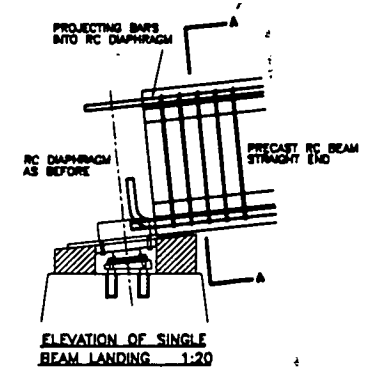
ELEVATION OF INSITU DIAPHRAGM
 TOWER 51 1:20



SECTION OF INSITU DIAPHRAGM 1:20



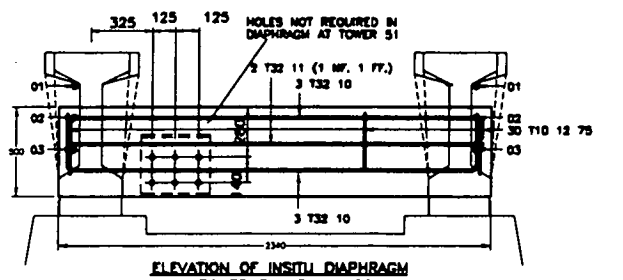
TYPICAL PLAN OF SINGLE BEAM LANDING 1:20



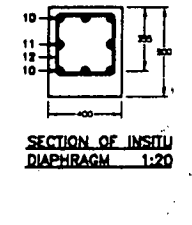
ELEVATION OF SINGLE BEAM LANDING 1:20



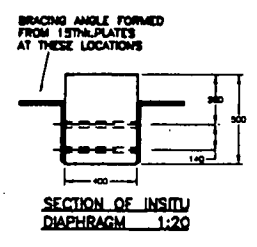
SECTION A-A 1:20



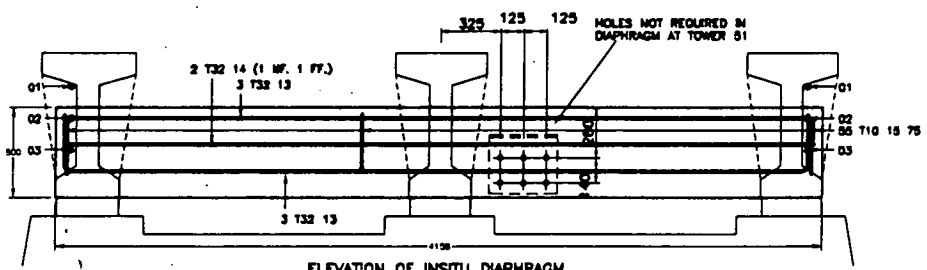
ELEVATION OF INSITU DIAPHRAGM
 TOWER 54 & 56 1:20



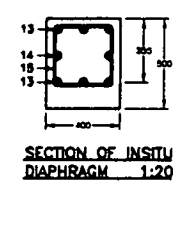
SECTION OF INSITU DIAPHRAGM 1:20



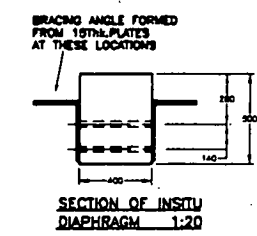
SECTION OF INSITU DIAPHRAGM 1:20



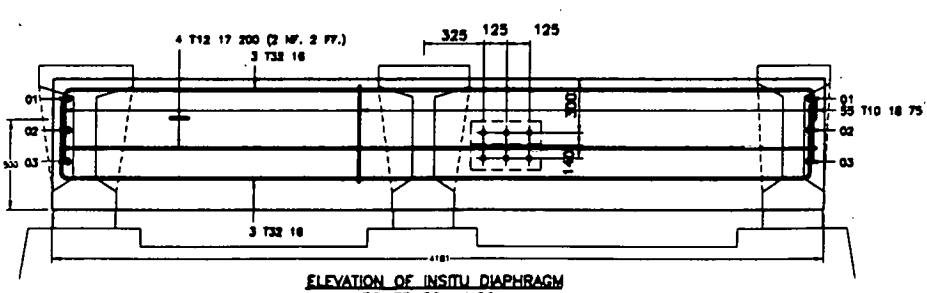
ELEVATION OF INSITU DIAPHRAGM
 TOWER 56 1:20



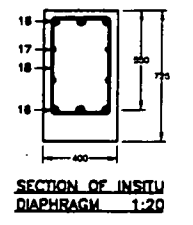
SECTION OF INSITU DIAPHRAGM 1:20



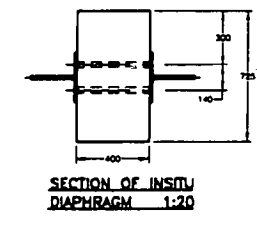
SECTION OF INSITU DIAPHRAGM 1:20



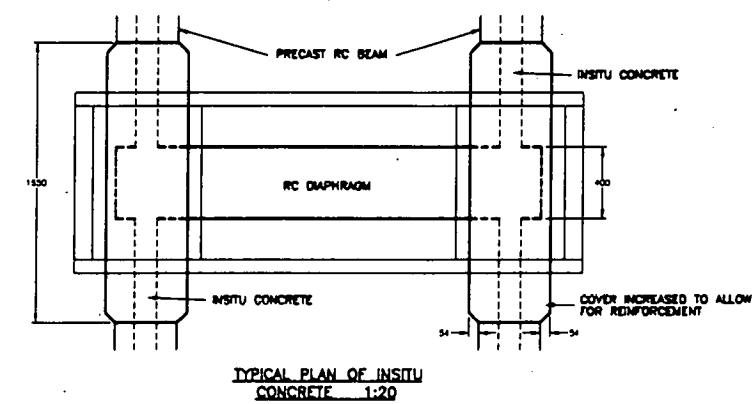
ELEVATION OF INSITU DIAPHRAGM
 TOWER 52 1:20



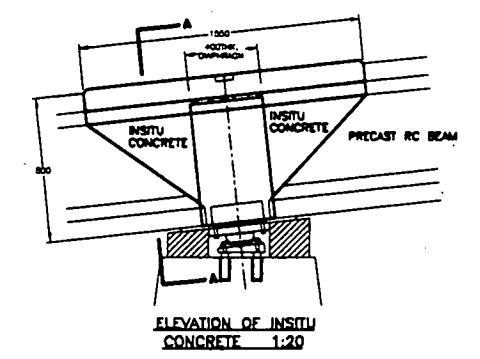
SECTION OF INSITU DIAPHRAGM 1:20



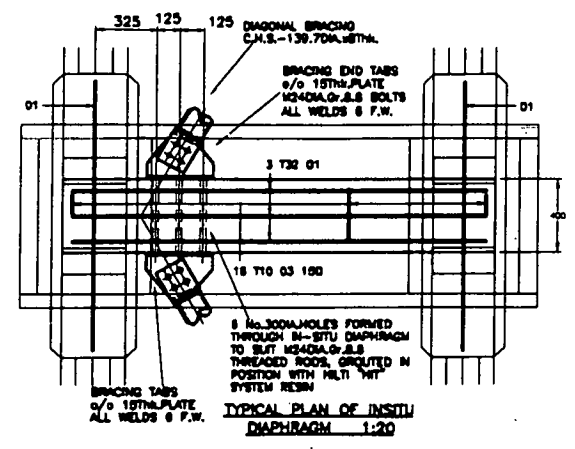
SECTION OF INSITU DIAPHRAGM 1:20



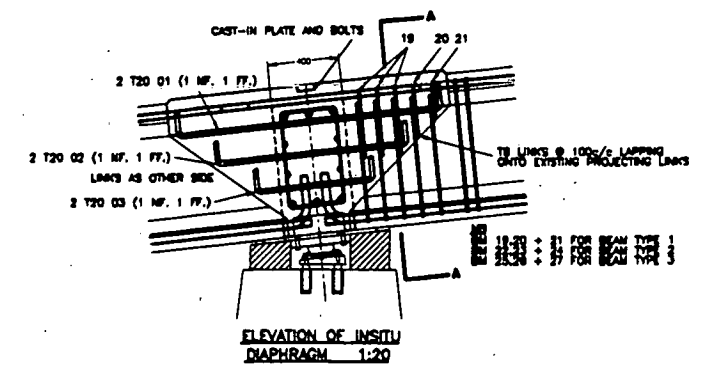
TYPICAL PLAN OF INSITU CONCRETE 1:20



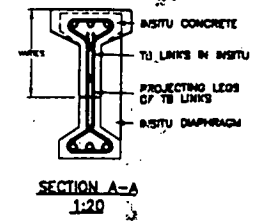
ELEVATION OF INSITU CONCRETE 1:20



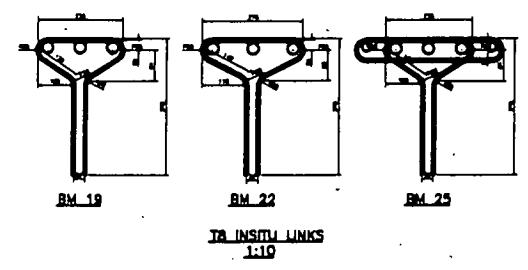
TYPICAL PLAN OF INSITU DIAPHRAGM 1:20



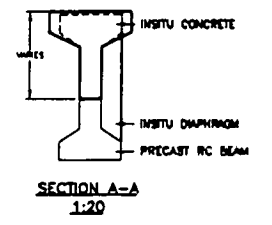
ELEVATION OF INSITU DIAPHRAGM 1:20



SECTION A-A 1:20



INSITU LINKS 1:10



SECTION A-A 1:20

Client:
 CAIRNGORM CHAIRLIFT
 COMPANY

Project:
 CAIRNGORM FUNICULAR

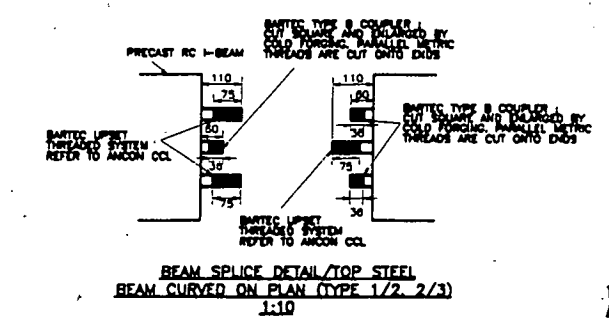
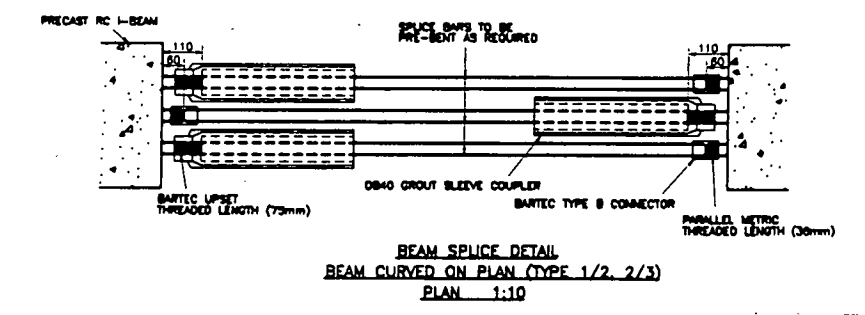
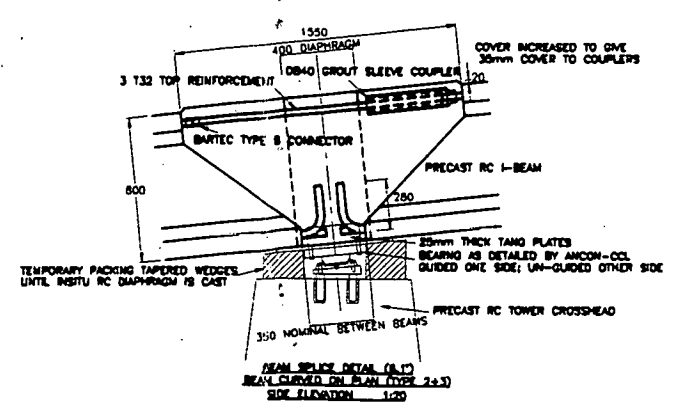
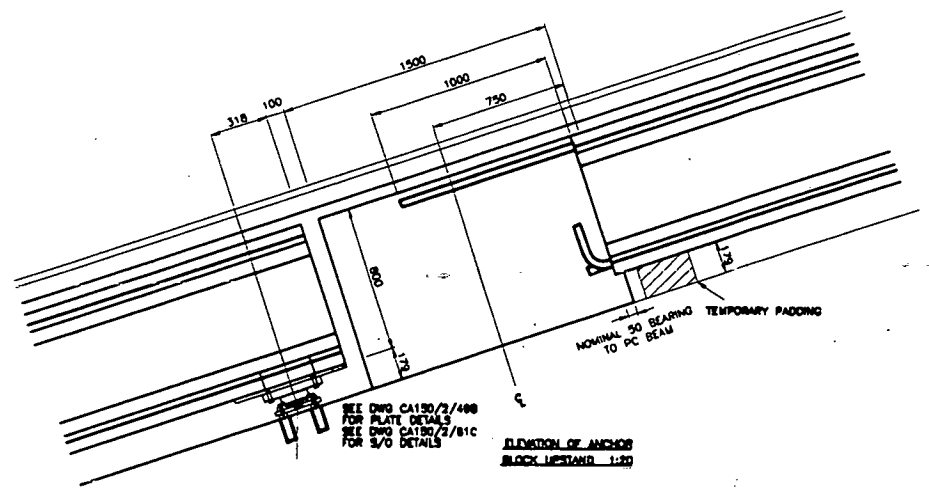
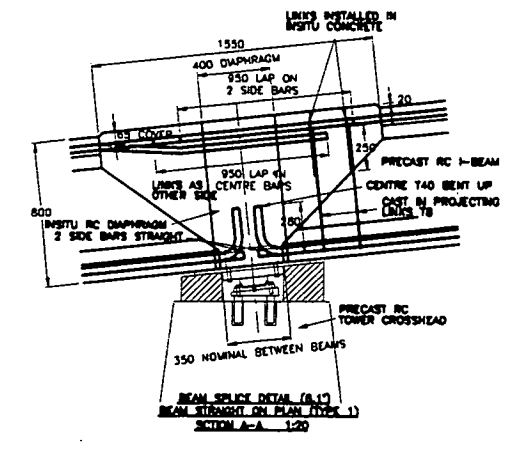
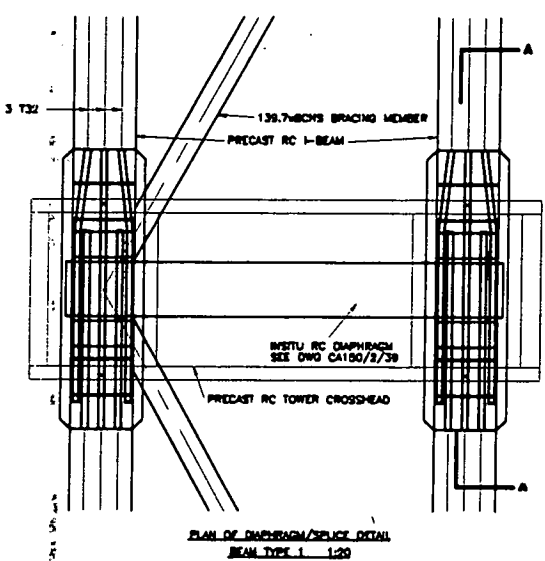
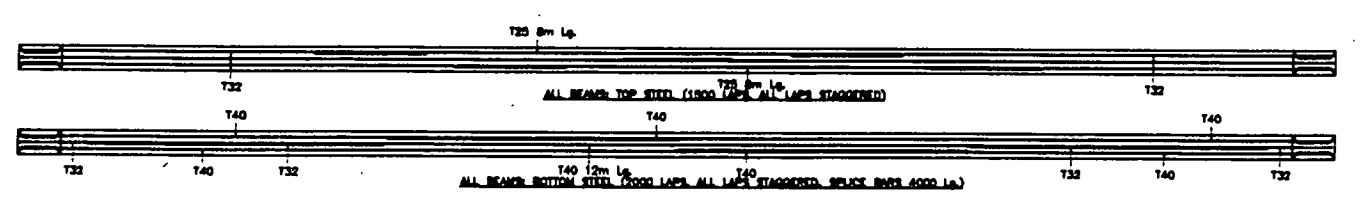
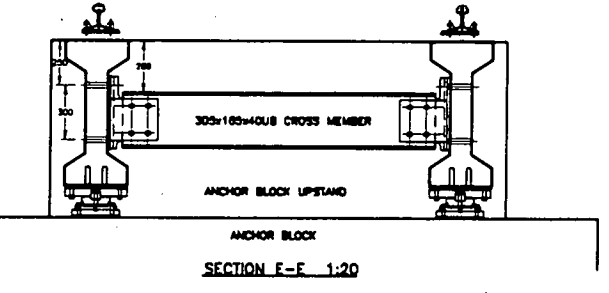
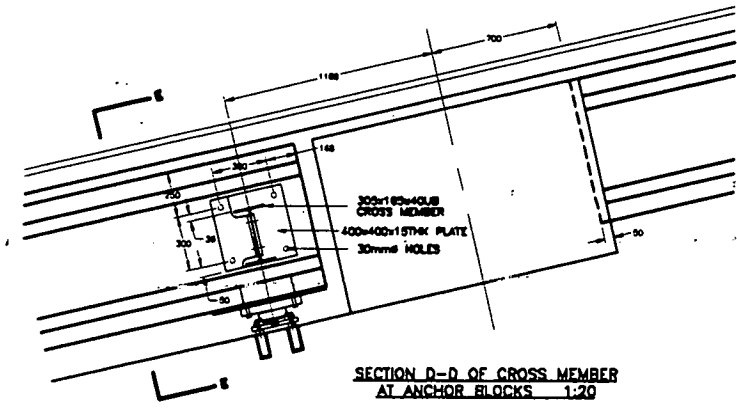
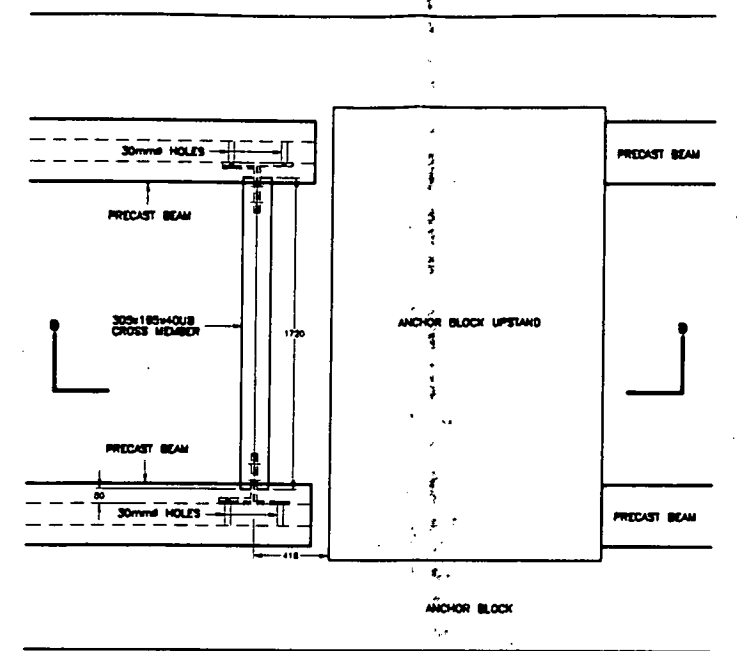
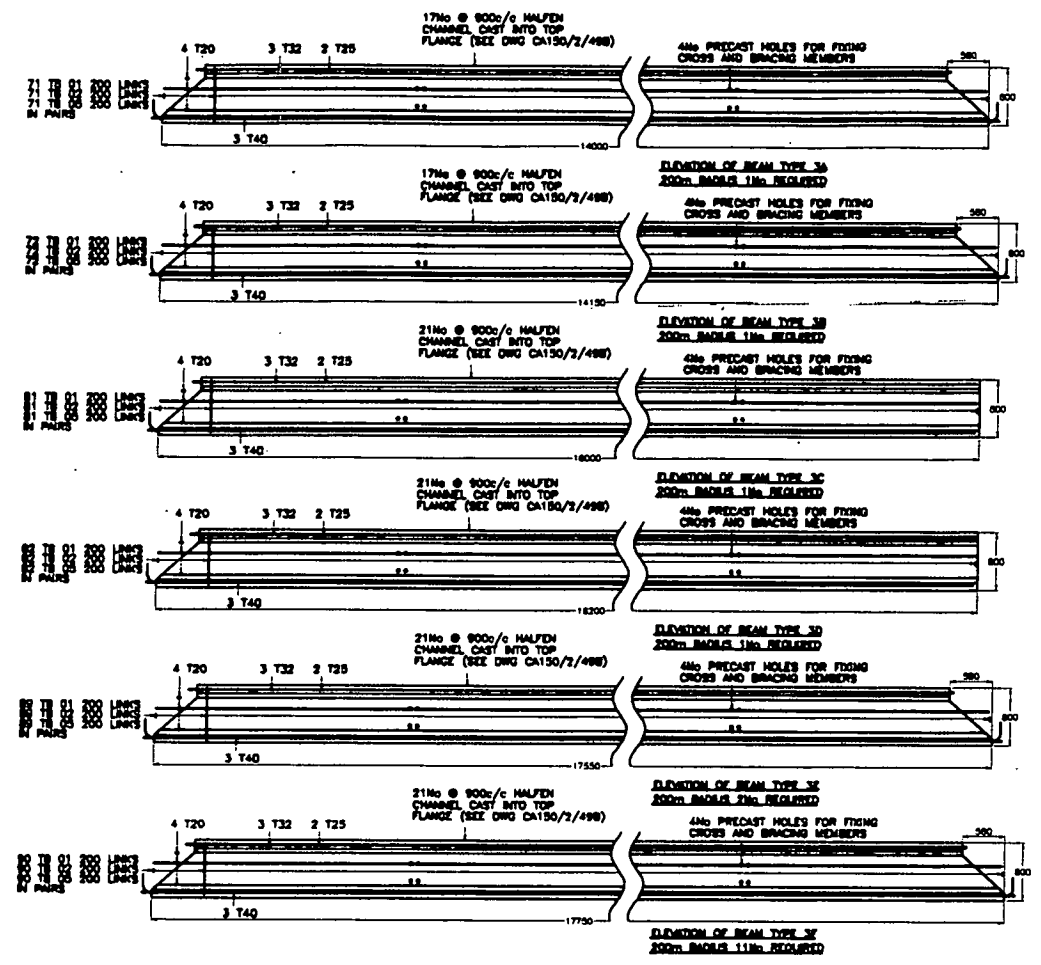
Drawing:
 PRECAST CONCRETE BEAM
 DETAIL 2 OF 2

Drawing No. CA150/2/79
 Rev. C
 Date 13/7/00
 Scale 1:50

Revisions:
 See DWG CA150/2/78A (1 OF 2) for:
 Precast concrete beam amendments.
 A 20/7/00
 Beam/Reinforcement amendments.
 Details added.
 B 17/8/00
 Beam/Reinforcement/Detail amendments
 due to Anchor Blocks.
 C 21/8/00
 Cross member details at Anchor blocks
 added. Text/detail amendments.

REDUCED FROM A1

CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY



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Client

CAIRNGORM CHAIRLIFT
 COMPANY

Project

CAIRNGORM FUNICULAR

Drawing

RAILWAY SUPPORT BEAMS
 BOTTOM STATION - ANCHOR BLOCK 0

Drawing No.

CA150/4/18

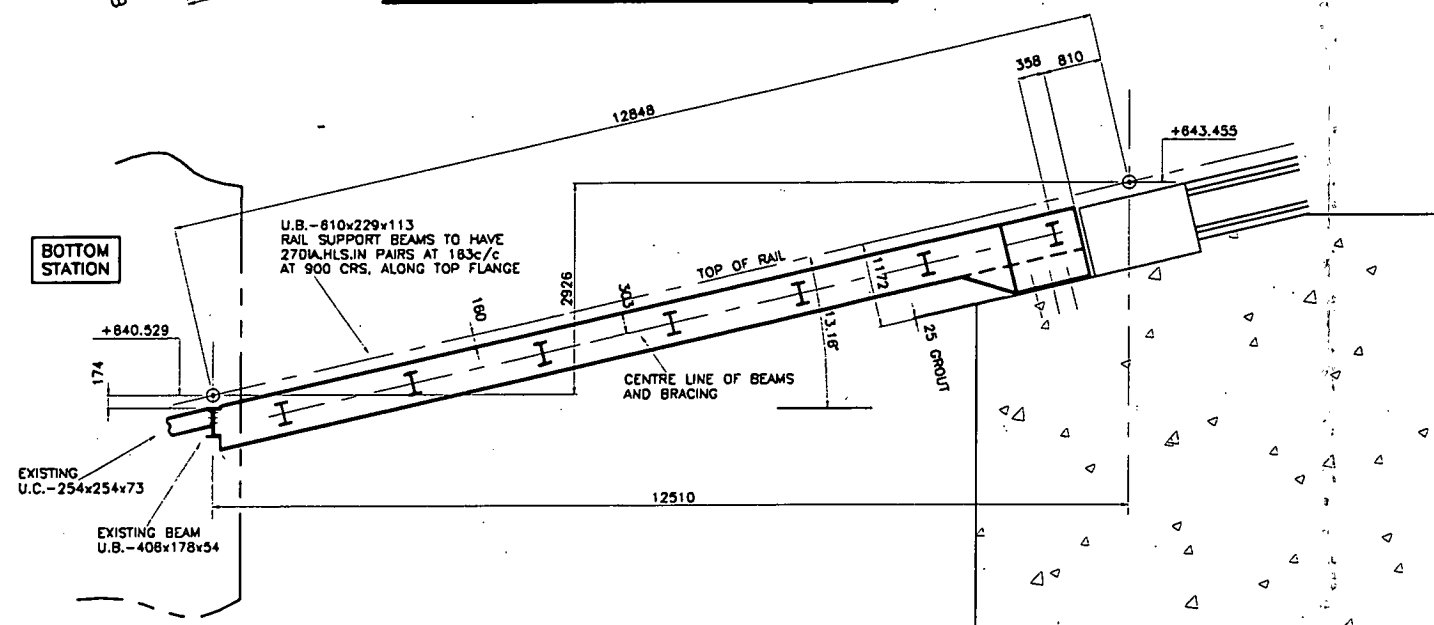
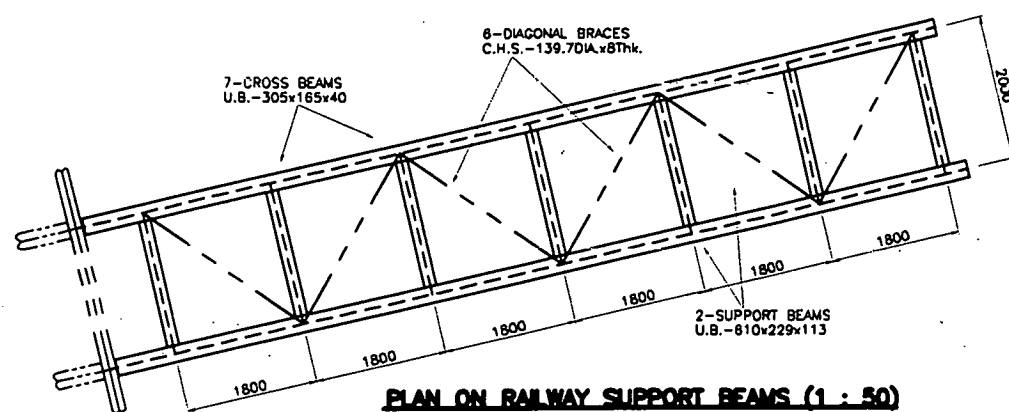
Drawn By

Date 14/7/00

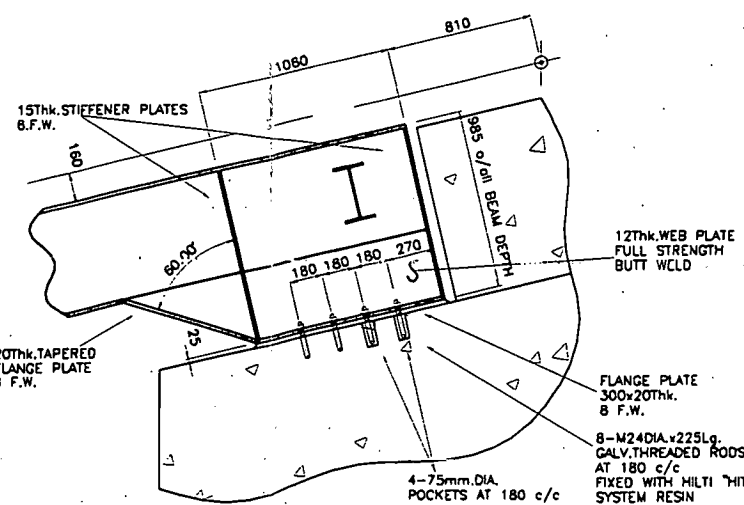
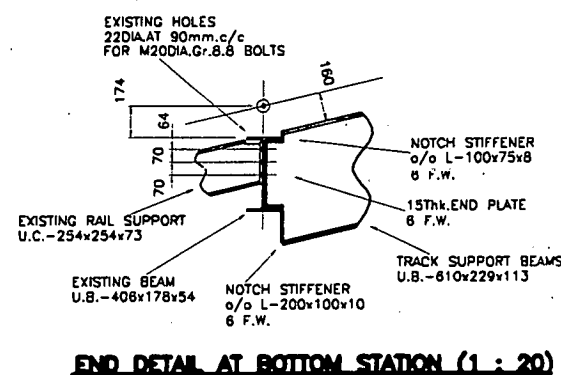
Scale As Shown

Revisions

Date By



ELEVATION ON RAILWAY SUPPORT BEAMS - BOTTOM STATION TO ANCHOR BLOCK 0 (1 : 50)



END DETAIL AT ANCHOR BLOCK (1 : 20)

NEW STEELWORK (GALVANISED)

- Structural Steel Grades:
 - Hot Rolled Hollow Sections EN 10210 S 275 J2H
 - All Other Hot Rolled Sections EN 10113 S 275 J0
- All steelwork connections and design to be in accordance with BS 5950 Part 1 1990.
- All bolts to be cadmium plated I.S.O. bolts grade 4.8 to BS 4190 or 8.8 to BS 3692 U.O.N.
- All welds to be 6mm fillet weld U.O.N.
- Details of all temporary bracings during various stages of construction to be submitted to the Engineer for approval.
- Steelwork to have acid pickling preparation prior to galvanising.
- Steelwork to be galvanised in accordance with BS 729, with a minimum average coating thickness of 85 microns.
- All dimensions marked * to be confirmed on site prior to fabrication of steelwork.

REDUCED FROM A1

L: X = 299552.255 Y = 805312.452
 C: X = 299551.655 Y = 805311.584
 R: X = 299551.118 Y = 805310.807

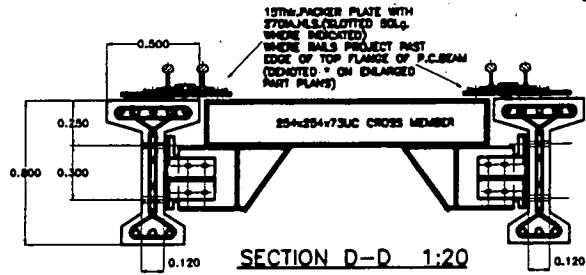
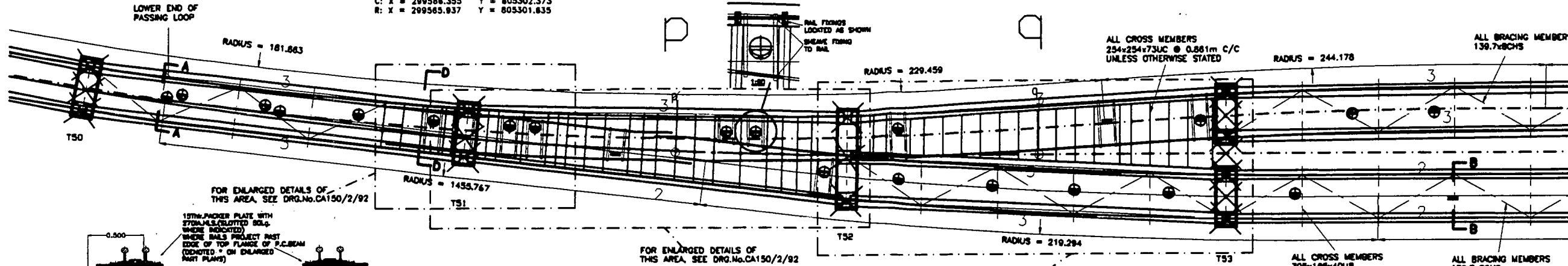
L: X = 299566.985 Y = 805303.483
 C: X = 299566.353 Y = 805302.373
 R: X = 299565.937 Y = 805301.835

L: X = 299582.528 Y = 805298.027
 C: X = 299581.750 Y = 805294.370
 R: X = 299580.895 Y = 805292.550

L: X = 299598.715 Y = 805289.774
 C: X = 299598.273 Y = 805288.805
 R: X = 299597.886 Y = 805287.954

L: X = 299614.556 Y = 805284.556
 C: X = 299614.142 Y = 805283.684
 R: X = 299613.728 Y = 805282.812

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PART PLAN 1 of 2
 SCALE 1:100

Note
 STEELWORK ARRANGEMENT IS PRELIMINARY ONLY
 SUBJECT TO CONFIRMATION BY FUNICULAR SUPPLIER
 FOR TOWER DETAILS T51 TO T57 REFER TO DWG 150/2/57

REDUCED FROM A1

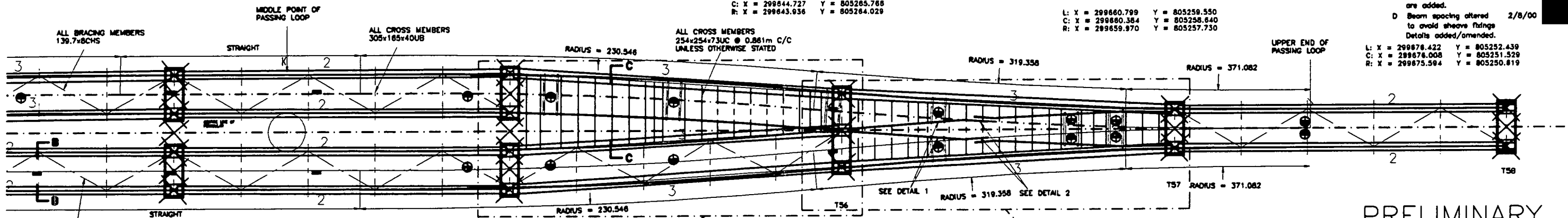
L: X = 299614.556 Y = 805282.794
 C: X = 299614.142 Y = 805281.884
 R: X = 299613.728 Y = 805280.973

L: X = 299630.303 Y = 805275.890
 C: X = 299629.850 Y = 805274.898
 R: X = 299629.438 Y = 805273.785

L: X = 299645.517 Y = 805267.503
 C: X = 299644.727 Y = 805265.768
 R: X = 299643.936 Y = 805264.029

L: X = 299660.799 Y = 805259.550
 C: X = 299660.384 Y = 805258.640
 R: X = 299659.970 Y = 805257.730

L: X = 299676.422 Y = 805252.439
 C: X = 299676.008 Y = 805251.529
 R: X = 299675.594 Y = 805250.619

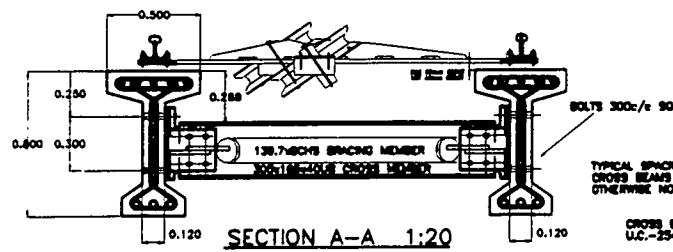


PART PLAN 2 of 2
 SCALE 1:100

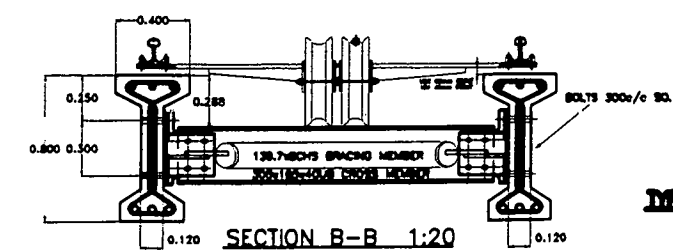
PRELIMINARY

L: X = 299612.899 Y = 805279.153
 C: X = 299612.485 Y = 805278.243
 R: X = 299612.071 Y = 805277.333

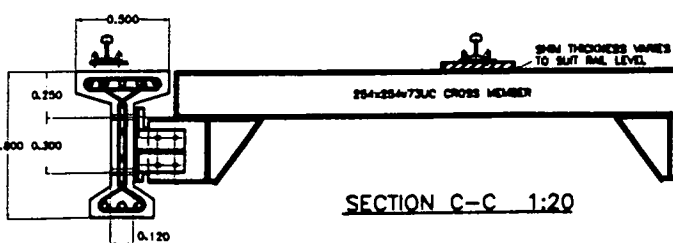
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 C: X = 299626.222 Y = 805271.119
 R: X = 299625.770 Y = 805270.124



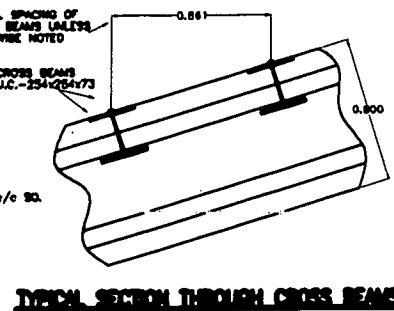
SECTION A-A 1:20



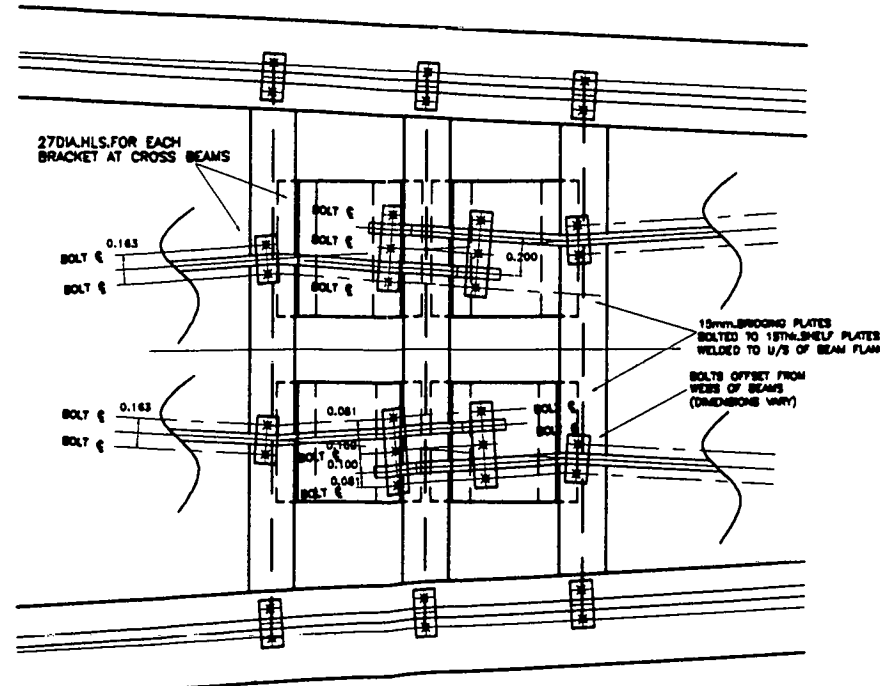
SECTION B-B 1:20



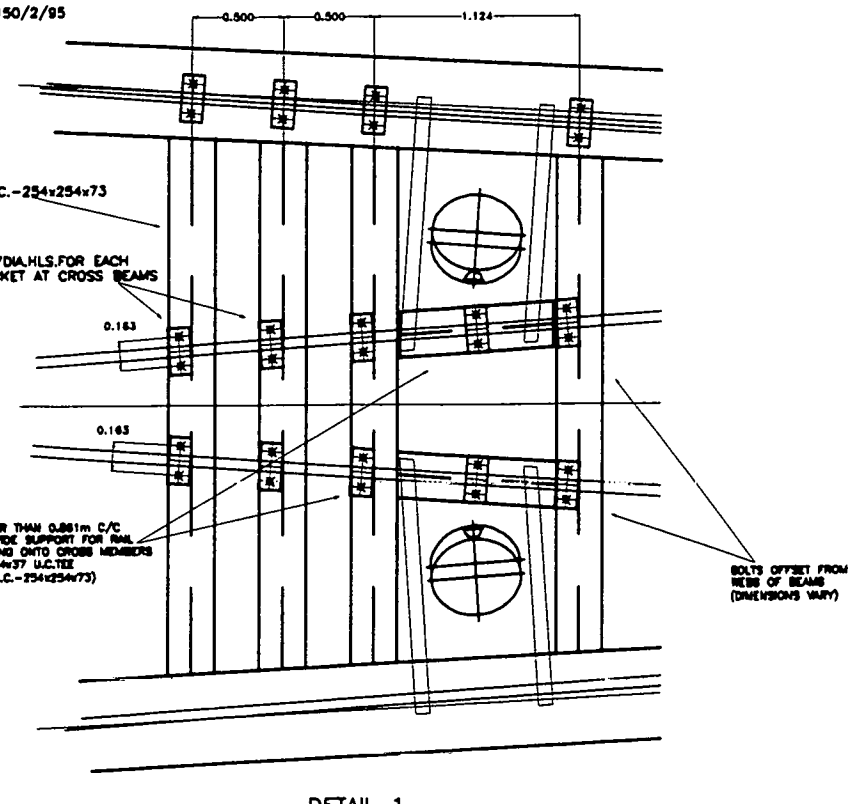
SECTION C-C 1:20



TYPICAL SECTION THROUGH CROSS BEAMS



DETAIL 2
 1:20



DETAIL 1
 1:20

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Client:
**CAIRNGORM CHAIRLIFT
 COMPANY**

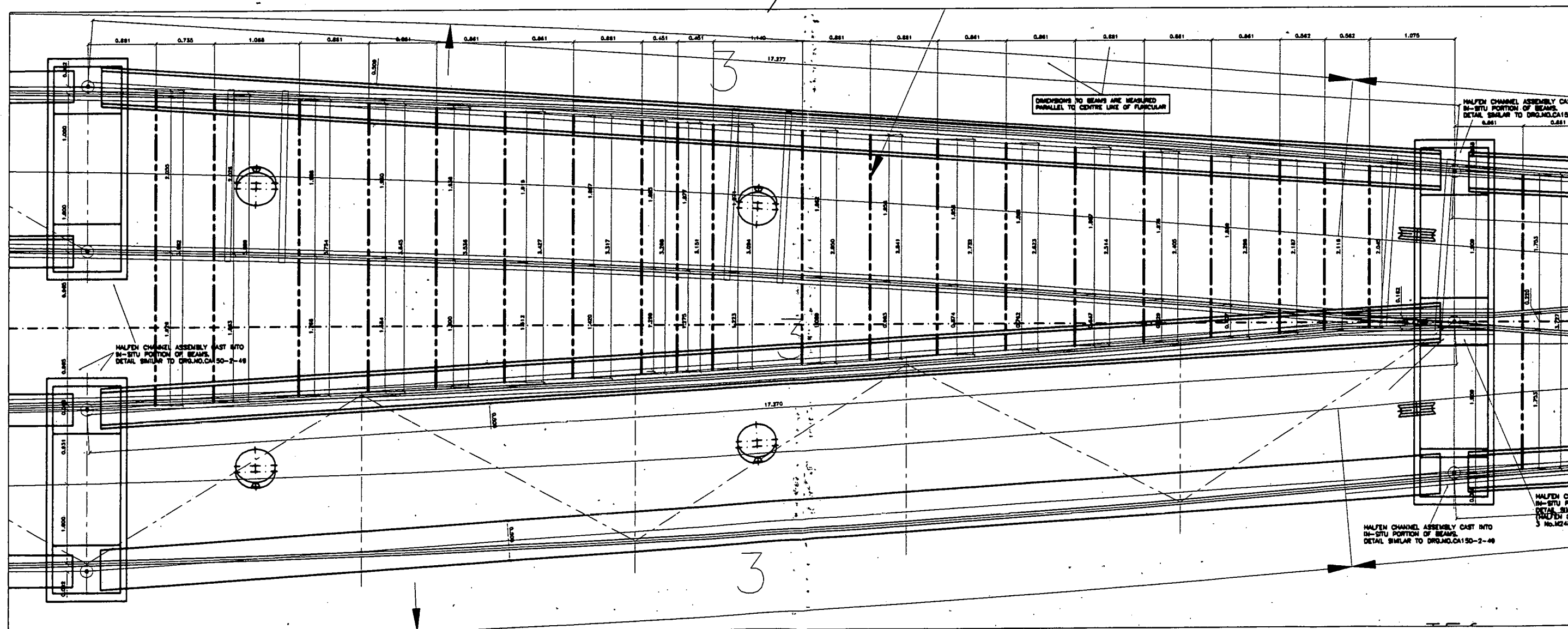
Project:
CAIRNGORM FUNICULAR

Drawing:
**STEELWORK SUPERSTRUCTURE
 OF PASSING LOOP
 ENLARGED PART SETOUT**

Drawing No. CA150/2/94
 Date 26/7/00
 Scale 1 : 25

Revisions Date By

FOR LOCATION OF THIS AREA
 SEE DRG.No.CA150/2/47



PART PLAN ON PASSING LOOP SHOWING SETTING OUT DIM'S FOR CROSS BEAMS

ALL NOTED DIMENSIONS ARE MEASURED
 ON PLAN, AND SHOULD BE MODIFIED
 TO SUIT SLOPE OF RAIL SUPPORT BEAMS

REDUCED FROM A1

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COMPANY**

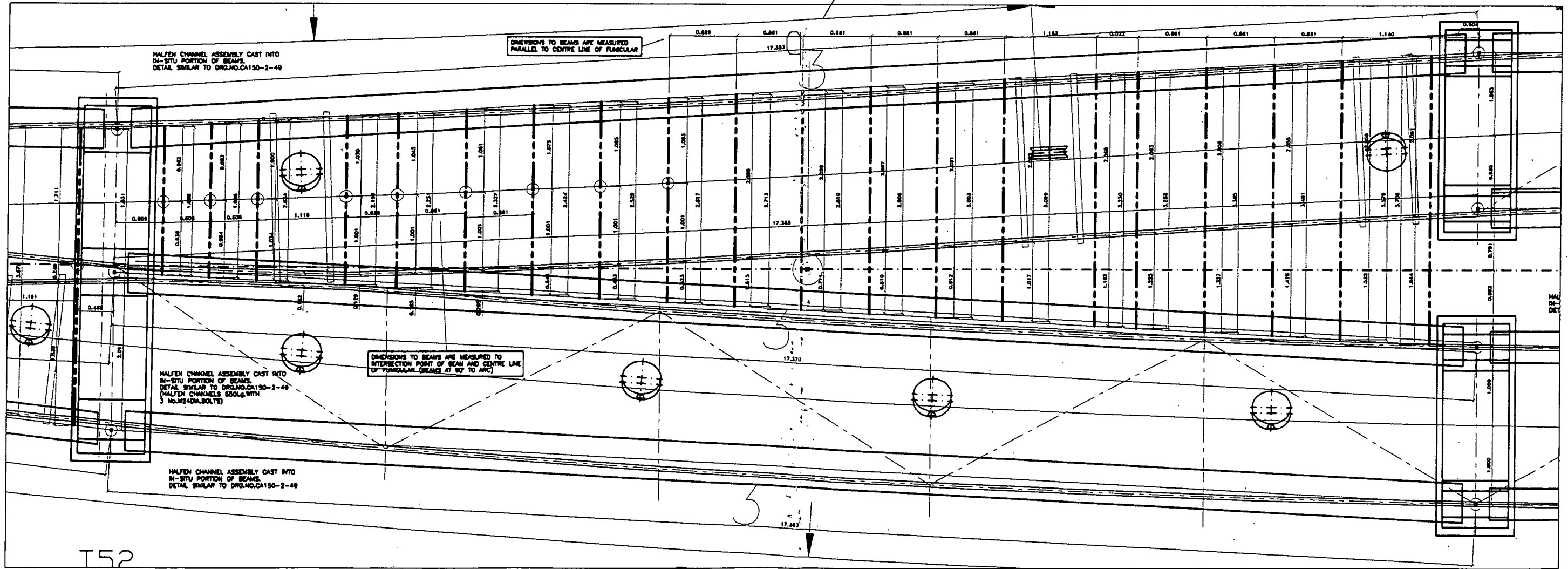
Project
CAIRNGORM FUNCLAR

Drawing
**STEELWORK SUPERSTRUCTURE
OF PASSING LOOP
ENLARGED PART SETOUT**

Drawing No. CA150/2/93
Date 26/7/00
Scale 1 : 25

Revisions

FOR LOCATION OF THIS AREA
SEE DRG.No.CA150/2/47



PART PLAN ON PASSING LOOP SHOWING SETTING OUT DIM'S FOR CROSS BEAMS

ALL NOTED DIMENSIONS ARE MEASURED
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TO SUIT SLOPE OF RAIL SUPPORT BEAMS

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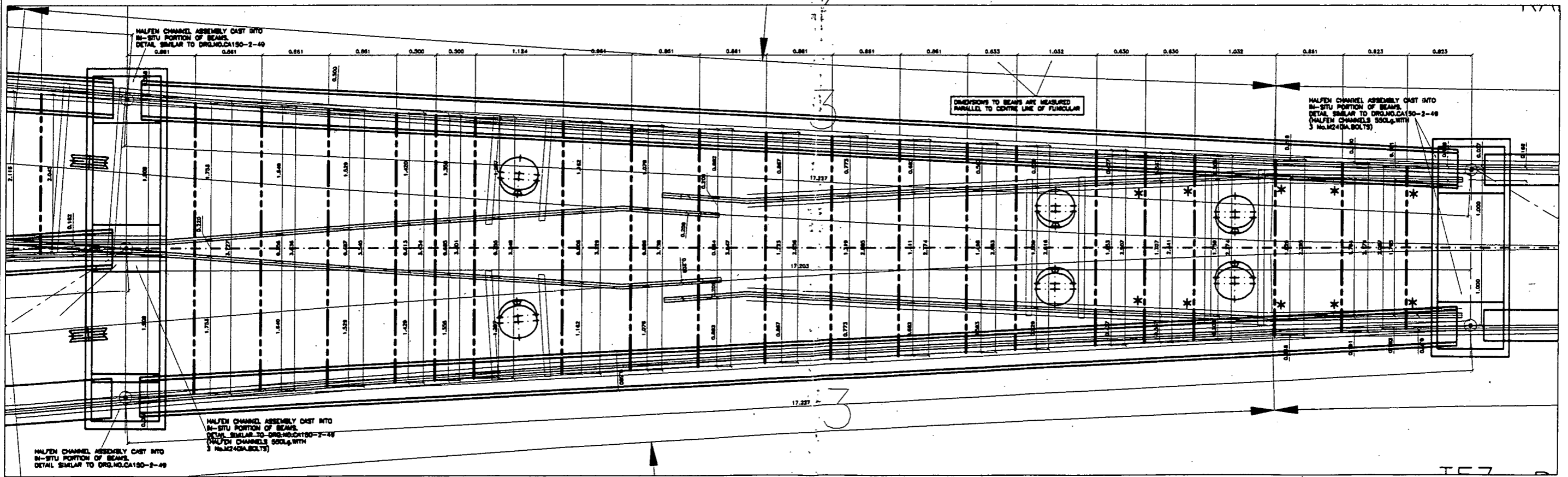
Project
CAIRNGORM FUNICULAR

Drawing
**STEELWORK SUPERSTRUCTURE
OF PASSING LOOP
ENLARGED PART SETOUT**

Drawing No. CA150/2/95
Drawn By [Redacted]
Date 26/7/00
Scale 1:25
Revisions

FOR LOCATION OF THIS AREA
SEE DRG.No.CA150/2/47

* DENOTES LOCATION OF
15THk. PACKER PLATES
WHERE RAILS MISS TOP
FLANGE OF P.C.BEAMS



PART PLAN ON PASSING LOOP SHOWING SETTING OUT DIM'S FOR CROSS BEAMS

ALL NOTED DIMENSIONS ARE MEASURED
ON PLAN, AND SHOULD BE MODIFIED
TO SUIT SLOPE OF RAIL SUPPORT BEAMS

PRELIMINARY

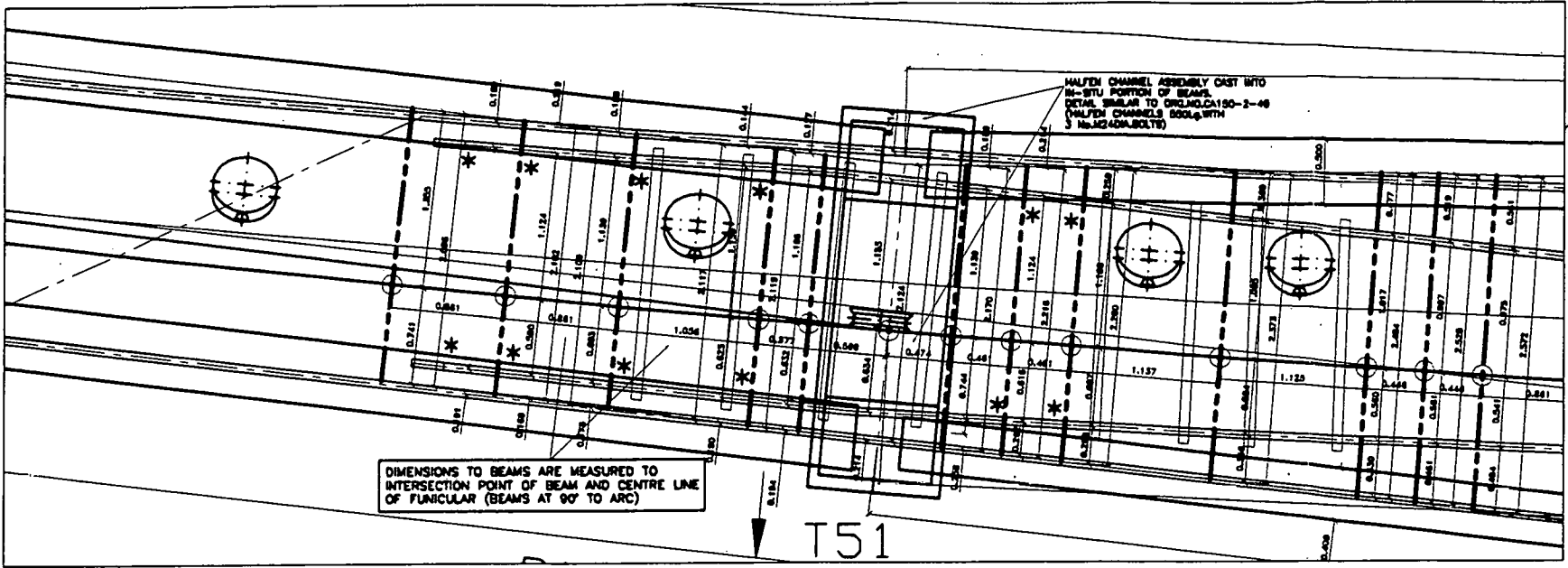
A.F.Cruden Associates
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email: crudens@aol.com

Client:
**CAIRNOORM CHAIRLIFT
COMPANY**

Project:
CAIRNOORM FUNICULAR

Drawing:
**STEELWORK SUPERSTRUCTURE
OF PASSING LOOP
ENLARGED PART SETOUT**

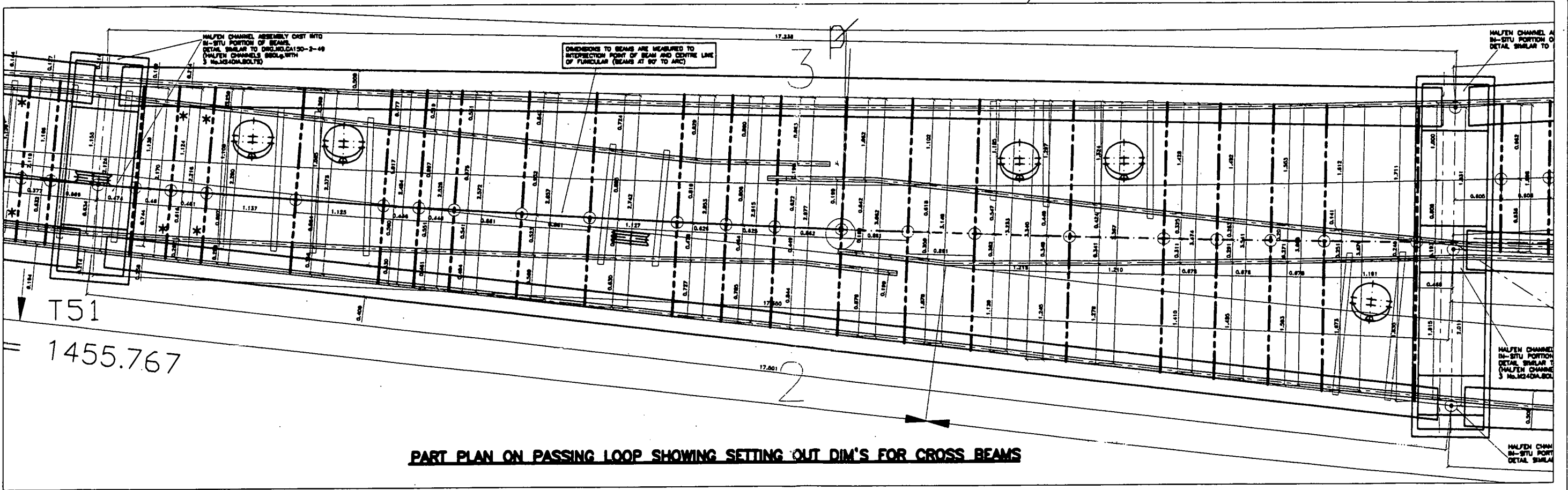
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Revisions



PART PLAN ON PASSING LOOP SHOWING SETTING OUT DIM'S FOR CROSS BEAMS

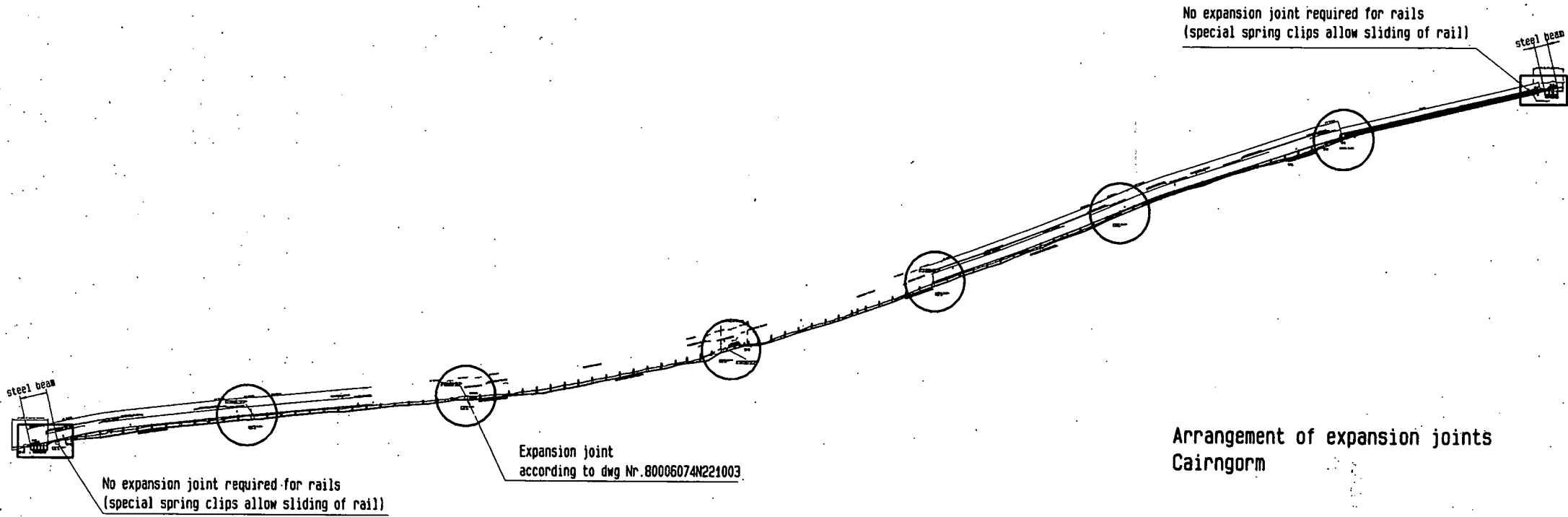
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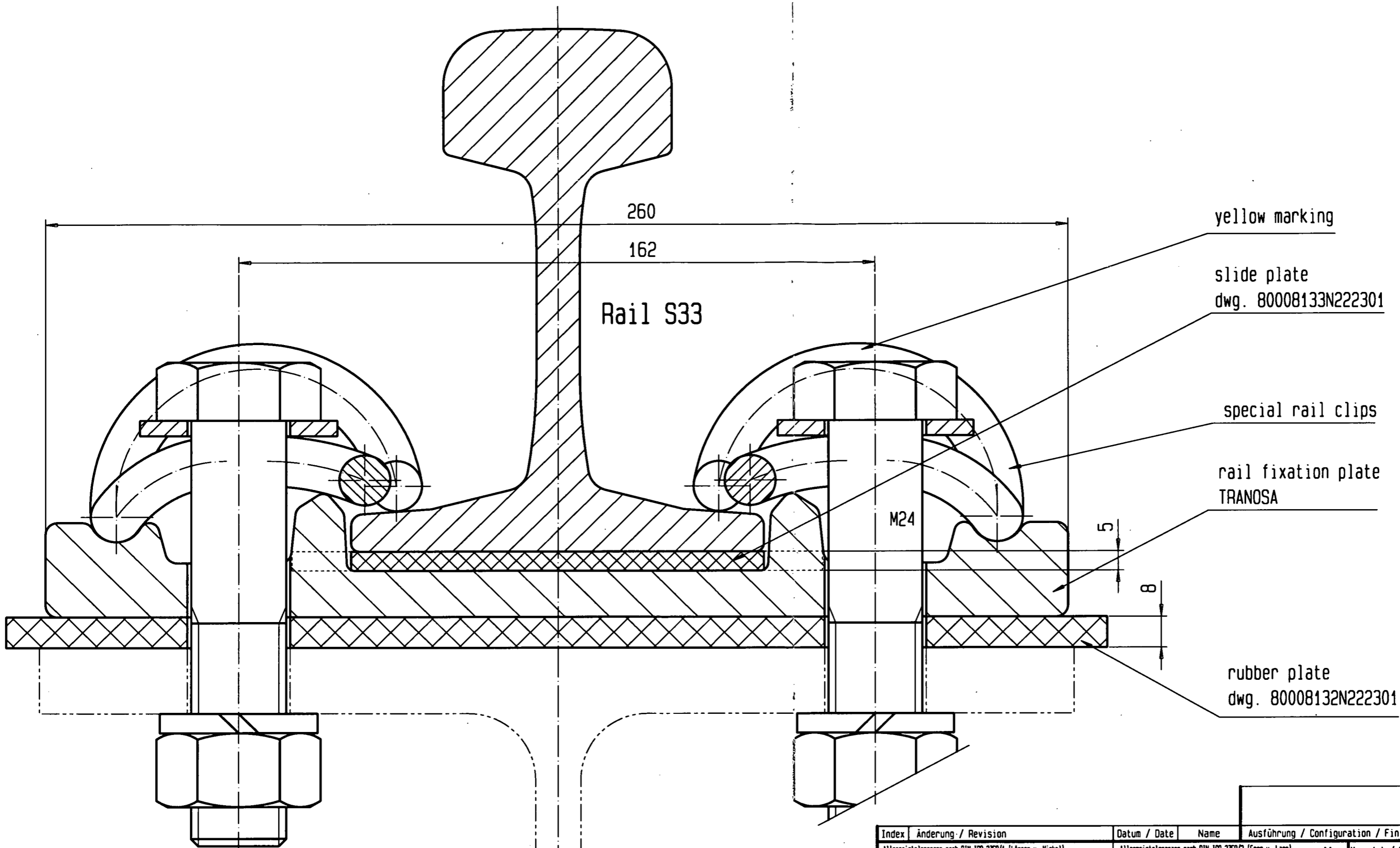


PART PLAN ON PASSING LOOP SHOWING SETTING OUT DIM'S FOR CROSS BEAMS

ALL NOTED DIMENSIONS ARE MEASURED
ON PLAN, AND SHOULD BE MODIFIED
TO SUIT SLOPE OF RAIL SUPPORT BEAMS



Arrangement of expansion joints
Cairngorm



yellow marking

slide plate
dwg. 80008133N222301

special rail clips

rail fixation plate
TRANOSA

rubber plate
dwg. 80008132N222301

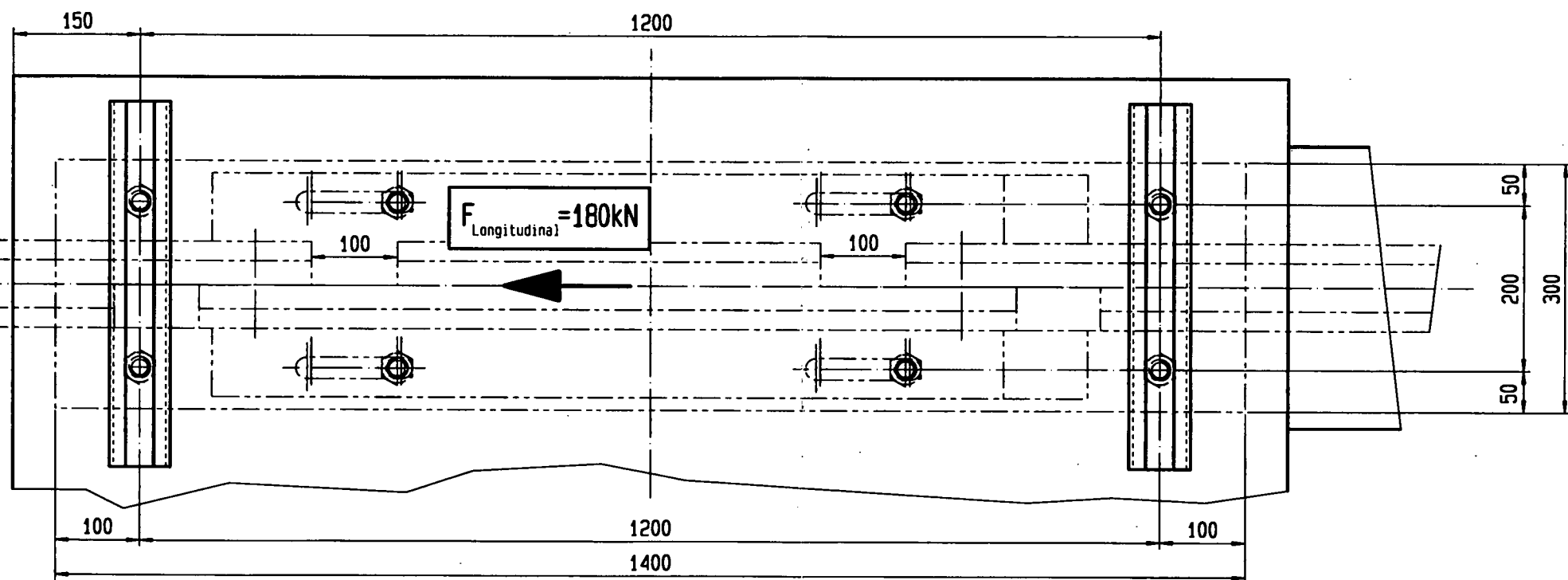
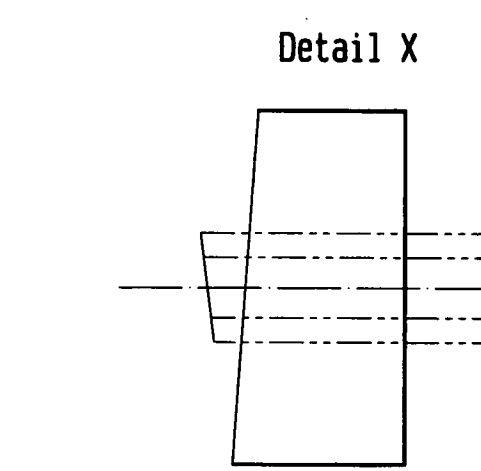
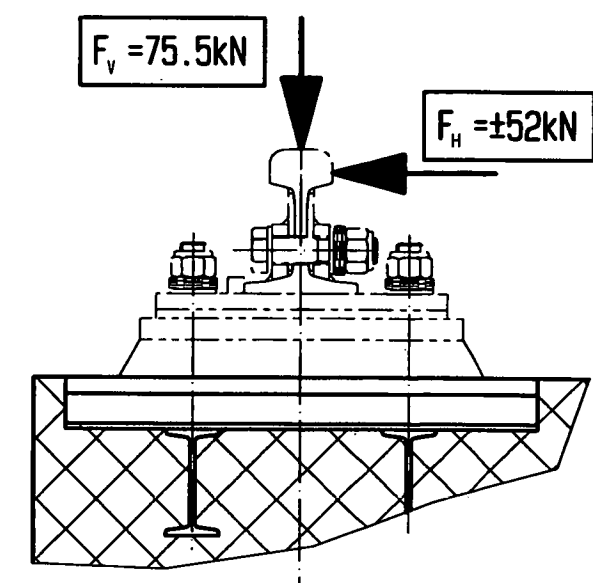
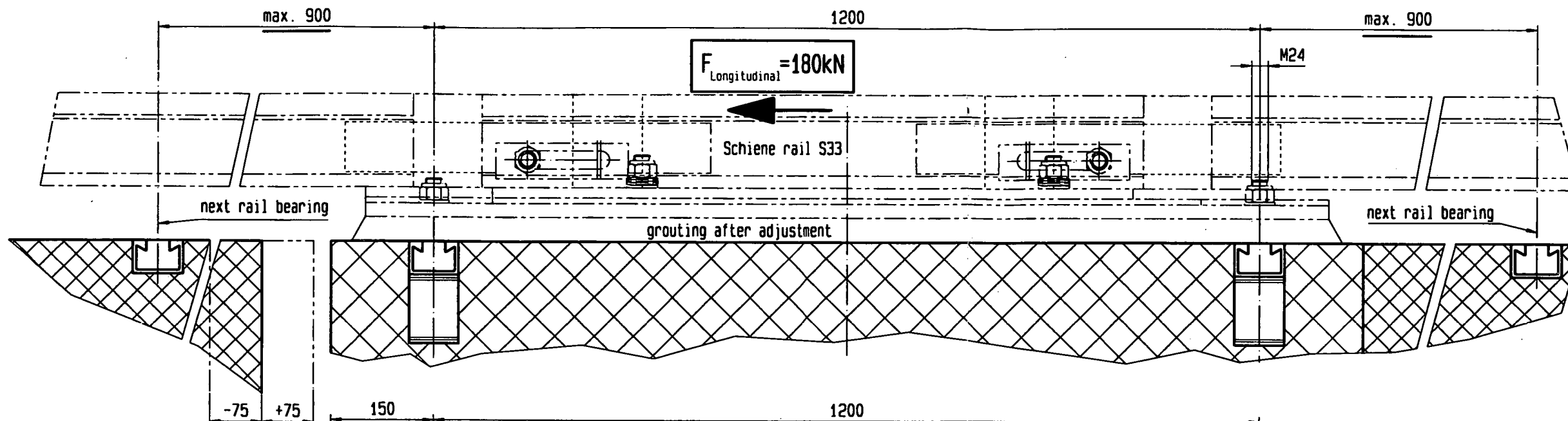
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Index	Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
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	Allgemeintoleranzen nach DIN EN ISO 13920 (Längen u. Winkel) General tolerances as per DIN EN ISO 13920 (lengths a. angles)	B	Allgemeintoleranzen nach DIN EN ISO 13920 (Form u. Lage) General tolerances as per DIN EN ISO 13920 (form + position)	F	1/1 Faktor: 1.000 gez. drawn gepr. approved 2001-05-30 2001-05-30 wia wia
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Auftrag / Order				KONSTRUKTION KZ.: wia	
Stück / Copies				X	
Schienenbefestigung - Station				Ursprungszng. Nr. / Original drwg. no. Ident. Nr. / Ident. no.	
Rail fixation - station funicular Cairngorm				Zeichnungs Nr. / Drawing no. Index 80008966N221002	

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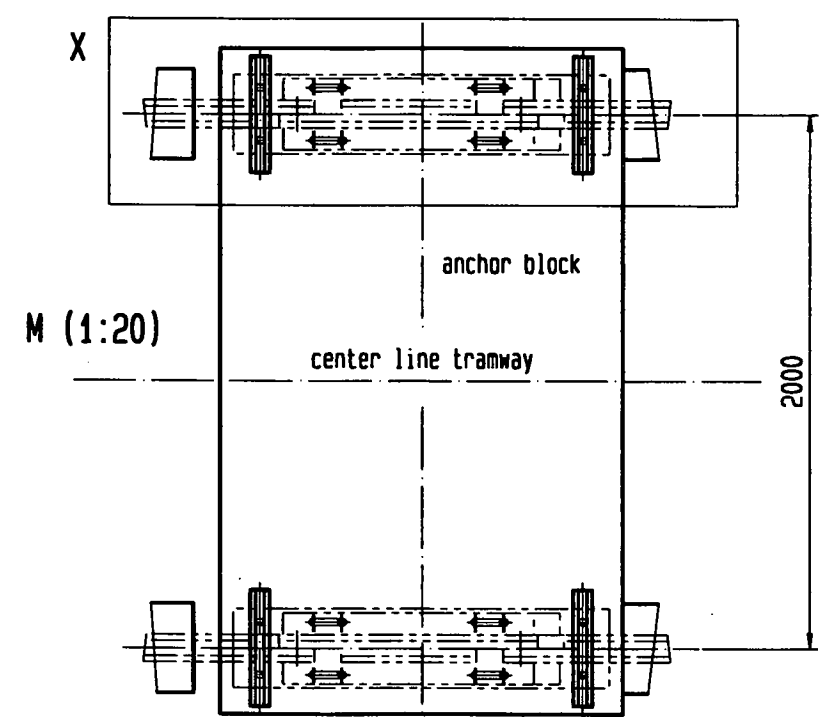
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- A3



Bergseite uphill

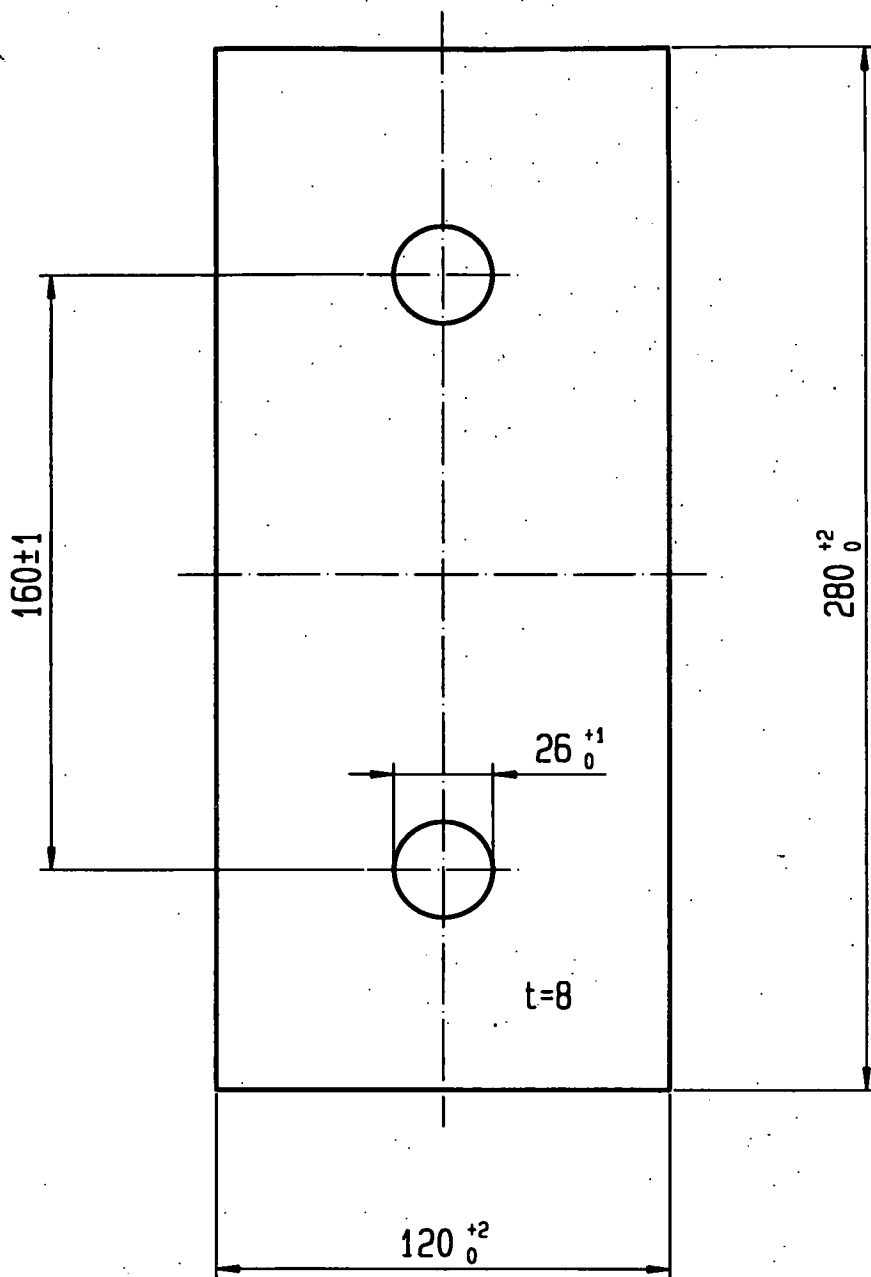
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Bergseite uphill

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Index Änderung / Revision		Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths & angles)		M	Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)		K
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Anlage / Installation		Stück / Copies		X	
Auftrag / Order		Stück / Copies		X	
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2000-12-30		19:22:36		2000-06-13	
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prime painted

20816523

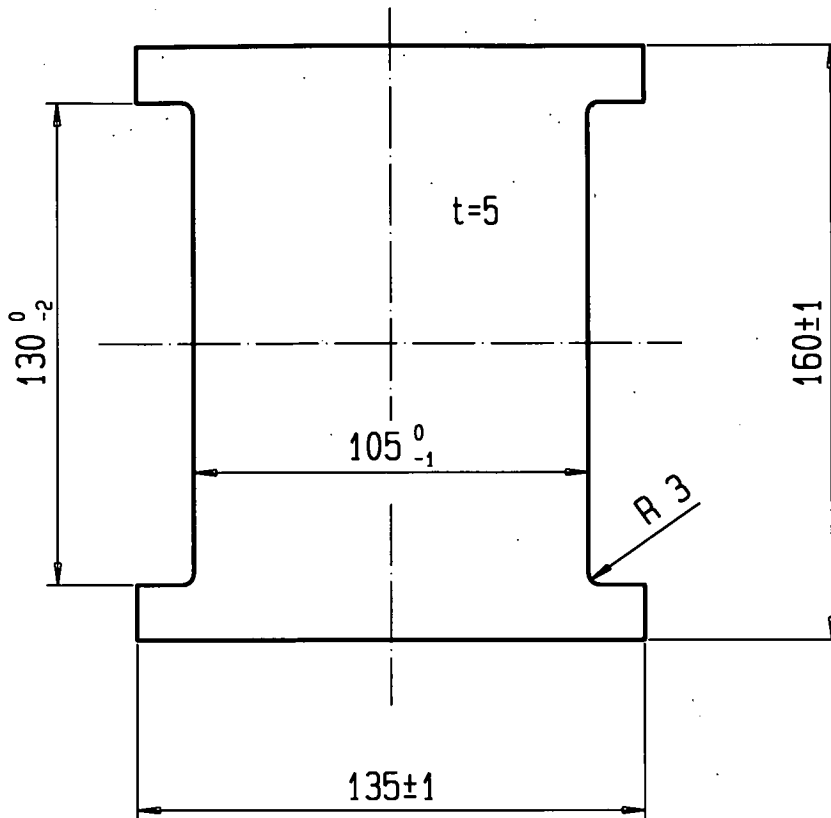
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Auftrag / Order _____ Stück / Copies _____ X				1/2 Faktor: 1.000	2001-04-10
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				Zeichnungs Nr. / Drawing no. Index	
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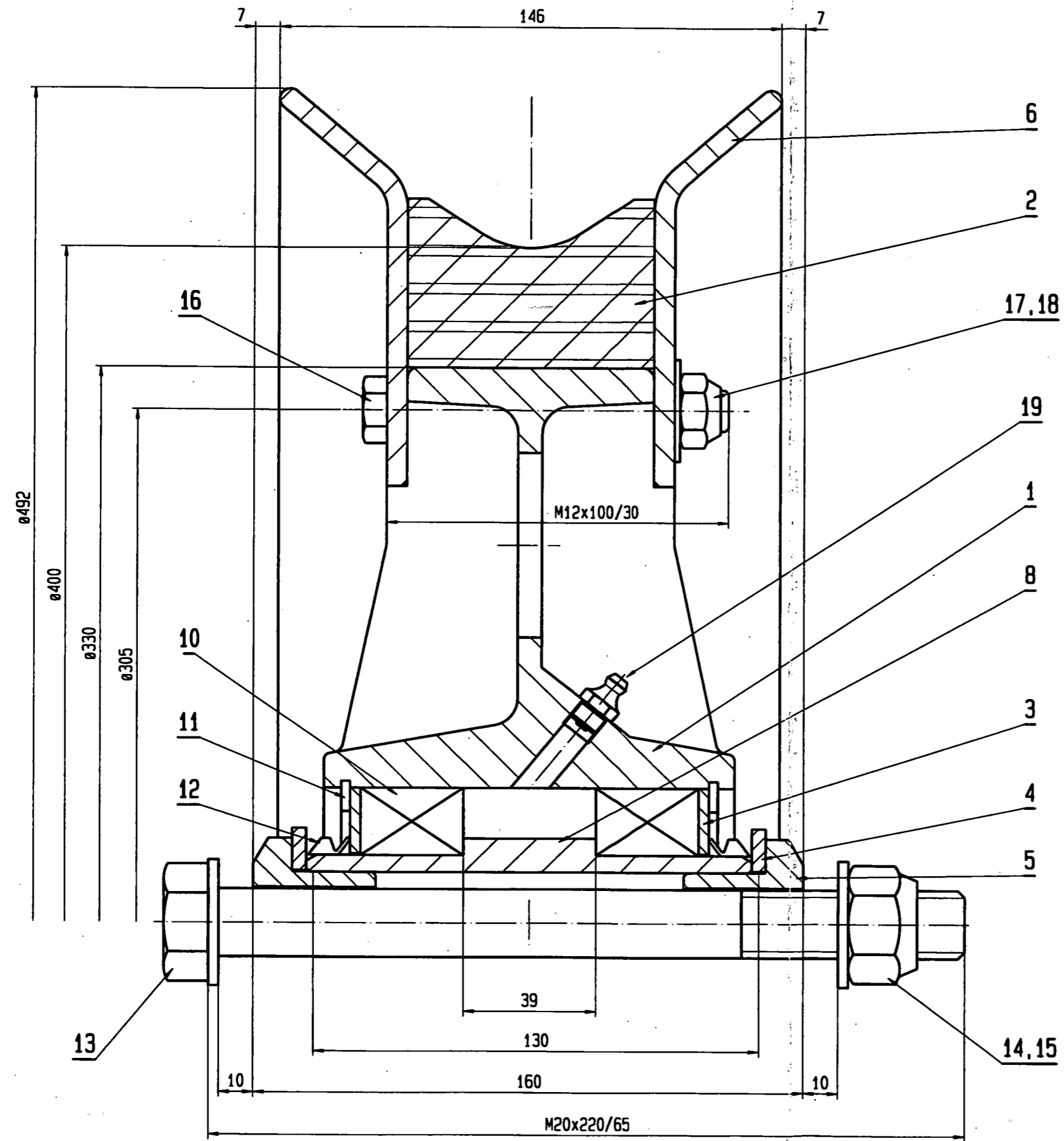
C A4



PTFE
natur. weiss

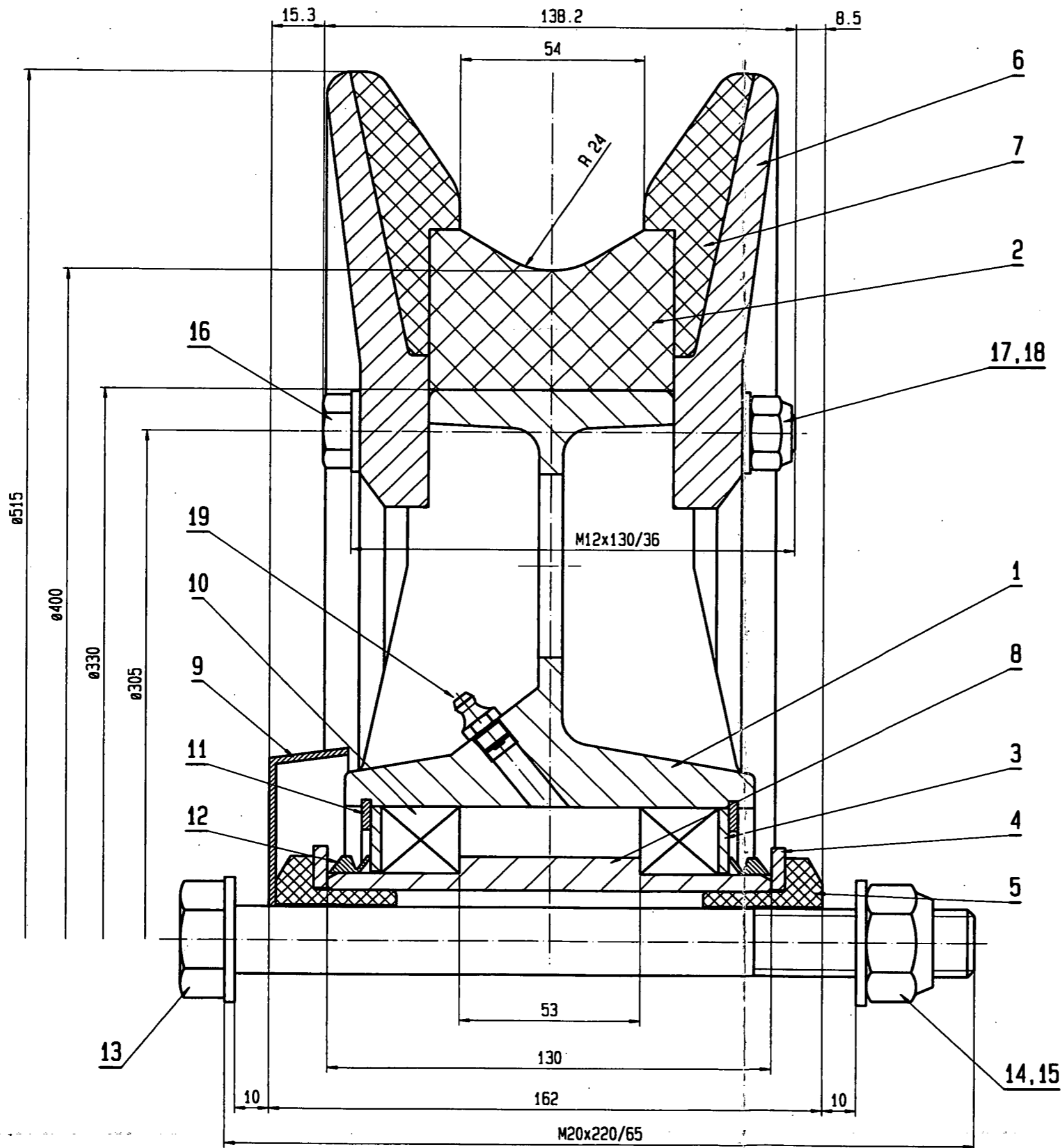
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	M		Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)	K	
	Allgemeintoleranzen nach DIN EN ISO 13320 (Längen u. Winkel) General tolerances as per DIN EN ISO 13320 (lengths & angles)				
	B		Allgemeintoleranzen nach DIN EN ISO 13320 (Form u. Lage) General tolerances as per DIN EN ISO 13320 (form & position)	F	
Anlage / Installation _____				Massstab / Scale	
Auftrag / Order _____				Datum / Date	
Stück / Copies _____				Name	
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ZOOM-Plot				15:42:23	
VR_K KZ.: kax					
Ursprungsng. Nr. / Original drwg. no.				Ident Nr. / Ident no.	
Zeichnungs Nr. / Drawing no.				Index	
80008133N				222301	
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Seiltragrolle ø400

Index / Änderung / Revision		Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
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Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)				F	
Allgemeintoleranzen nach DIN EN ISO 1302 (Längen u. Winkel) General tolerances as per DIN EN ISO 1302 (lengths & angles)				B	
Allgemeintoleranzen nach DIN EN ISO 1302 (Form u. Lage) General tolerances as per DIN EN ISO 1302 (form & position)				F	
Anlage / Installation		Stück / Copies		X	
Auftrag / Order		Stück / Copies		X	
Seiltragrolle ø400		Seilrollen			
2/10-03623		80000507N22300			
vonRoll Seilbahnen AG		Diese Zeichnung ist unser geistiges Eigentum. Sie darf ohne unsere besondere Zustimmung weder vervielfältigt, noch ausgeführt, noch Dritten Personen bekanntgegeben werden. This drawing or information is the property of vonRoll Seilbahnen AG and must not be copied nor utilized in whole or in part without permission and is subject to return upon request.		D-Klasse D-class	C A2

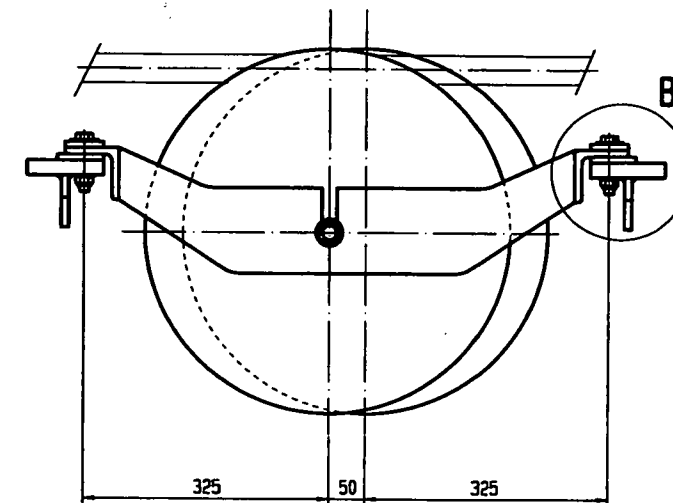
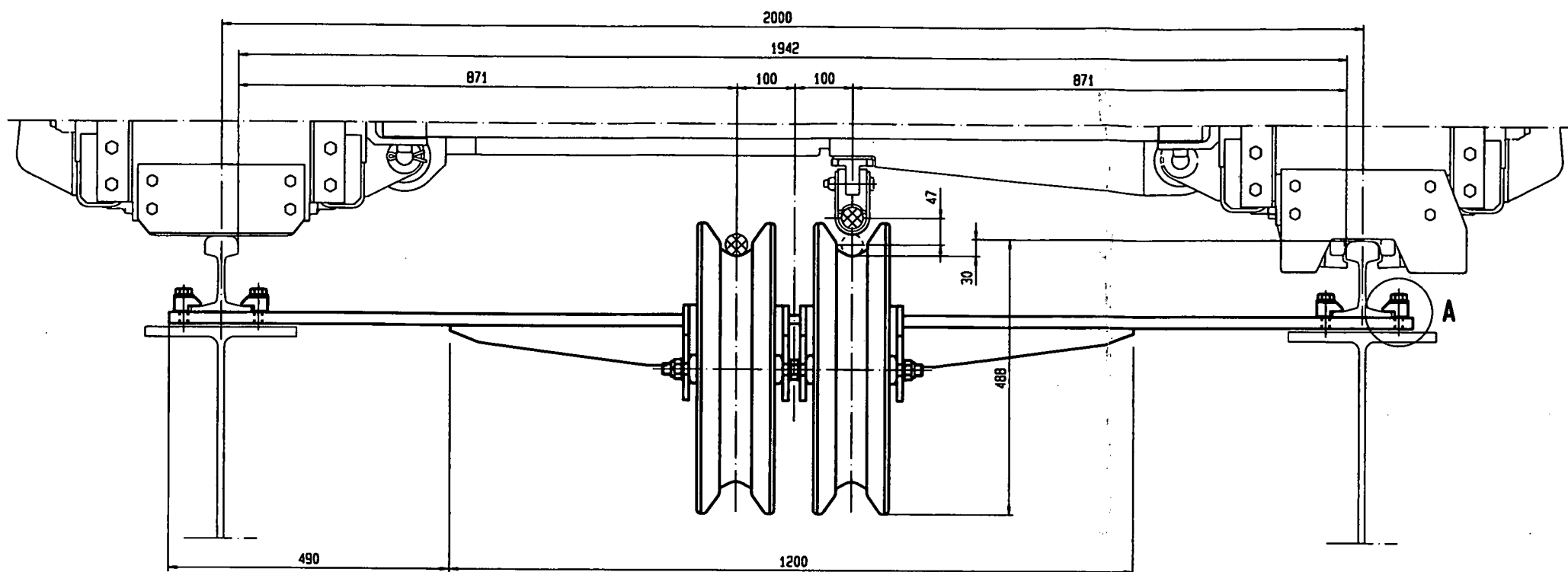


Schrägrolle ø400

Gewicht gemessen: 29,2kg

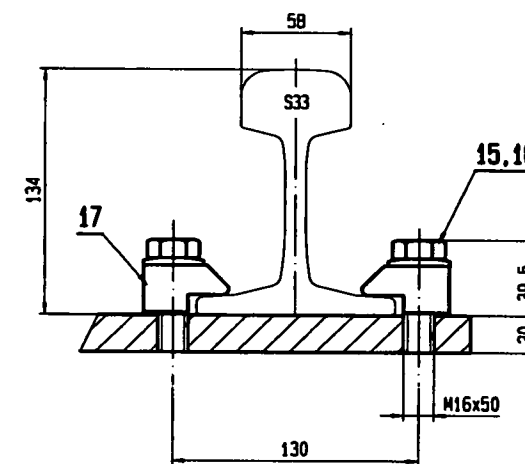
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Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths & angles)		M		Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)		K		20809260	
Allgemeintoleranzen nach DIN EN ISO 1302 (Längen u. Winkel) General tolerances as per DIN EN ISO 1302 (lengths & angles)		B		Allgemeintoleranzen nach DIN EN ISO 1302 (Form u. Lage) General tolerances as per DIN EN ISO 1302 (form & position)		F		1/1	
Anlage / Installation		Auftrag / Order		Stück / Copies		X		Gezeichnet: 2000-12-30 2000-12-30 KONSTRUKTION KZ.: wie	
Schrägrolle ø400 symmetrisch		Rollentyp grün		Seilrollen		80000506N222300		1999-09-08 15:43:39	
vonRoll Seilbahnen AG		Diese Zeichnung ist unser geistiges Eigentum. Sie darf ohne unsere besondere Zustimmung weder vervielfältigt, noch ausgeführt, noch Dritten Person bekanntgegeben werden. This drawing or information is the property of vonRoll Seilbahnen AG and must not be copied or utilized in whole or in part without permission and is subject to return upon request.		D-Klasse		C		A2	

Section C-C



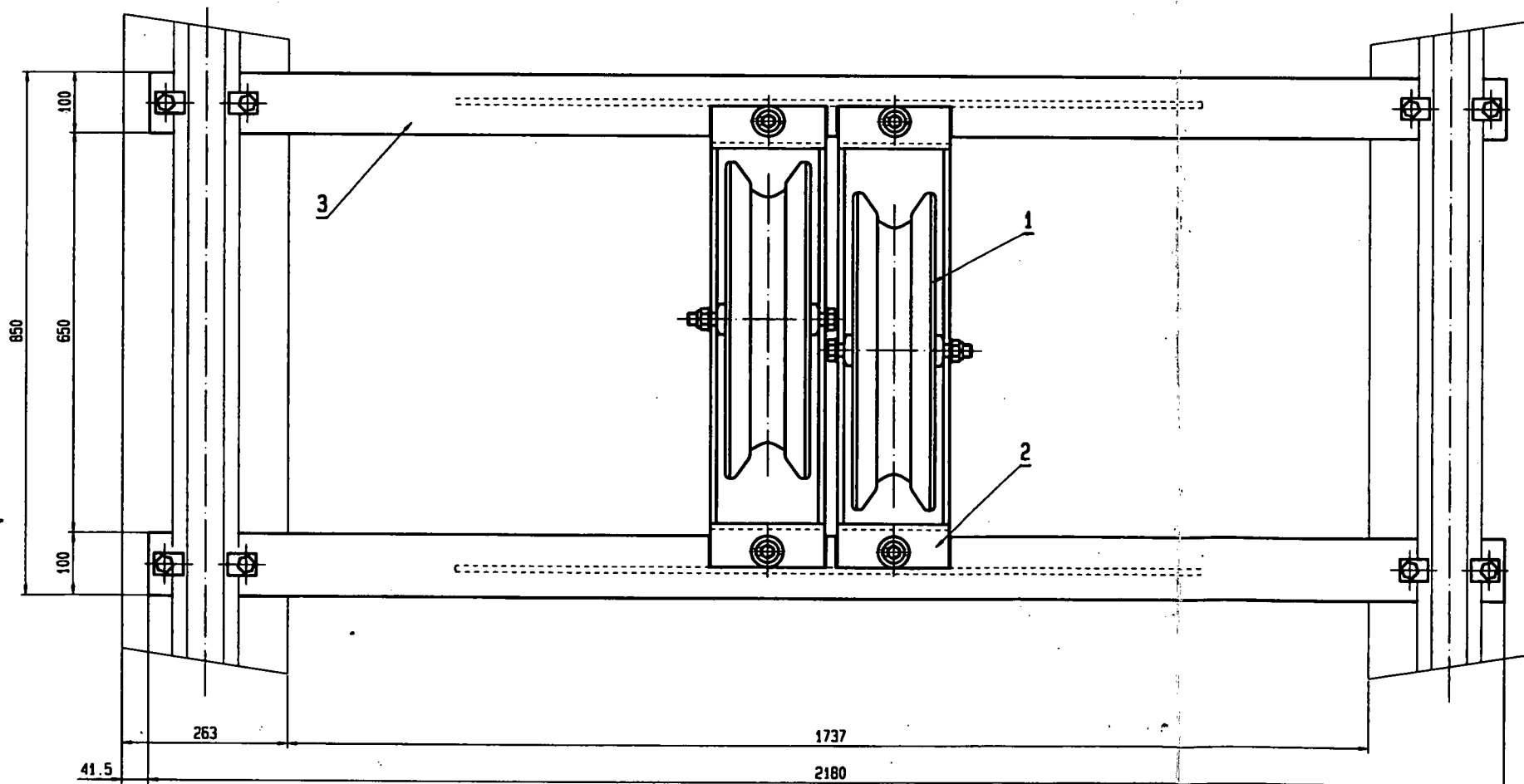
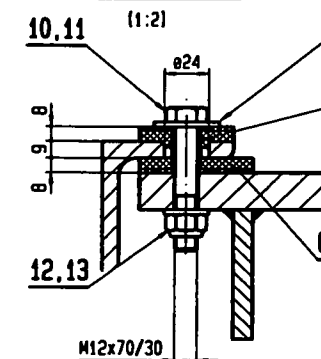
Detail A

(1:2)

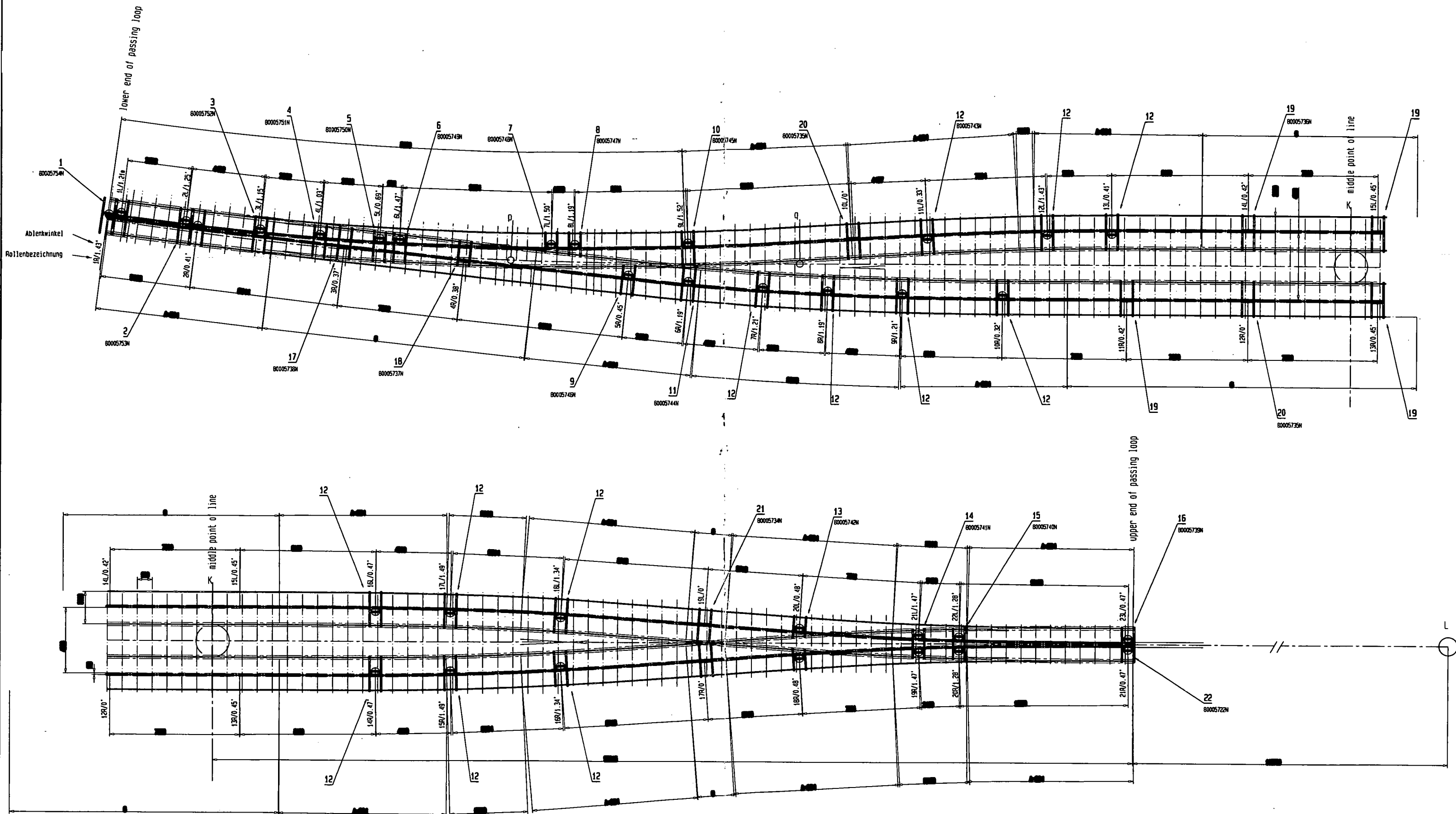


Detail B

(1:2)

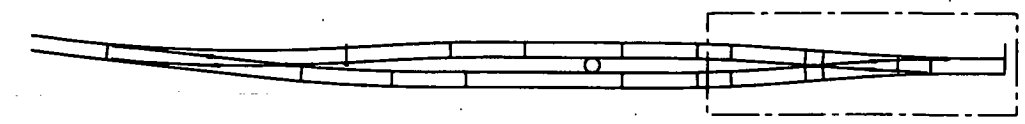
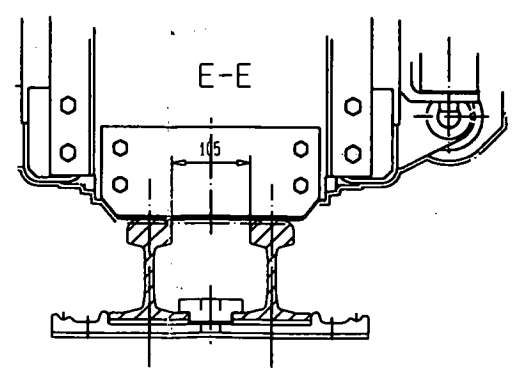
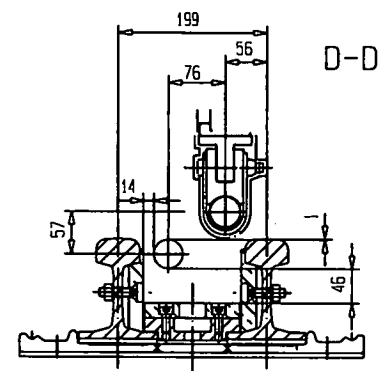
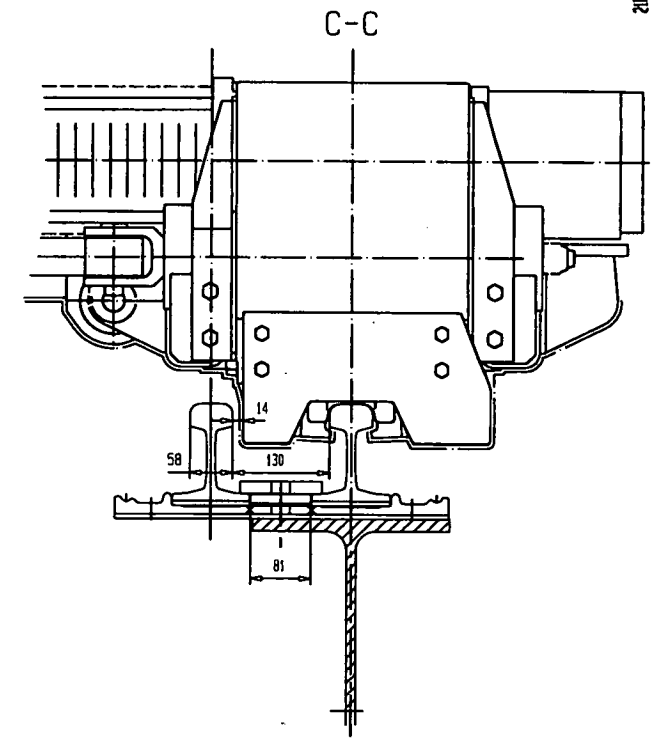
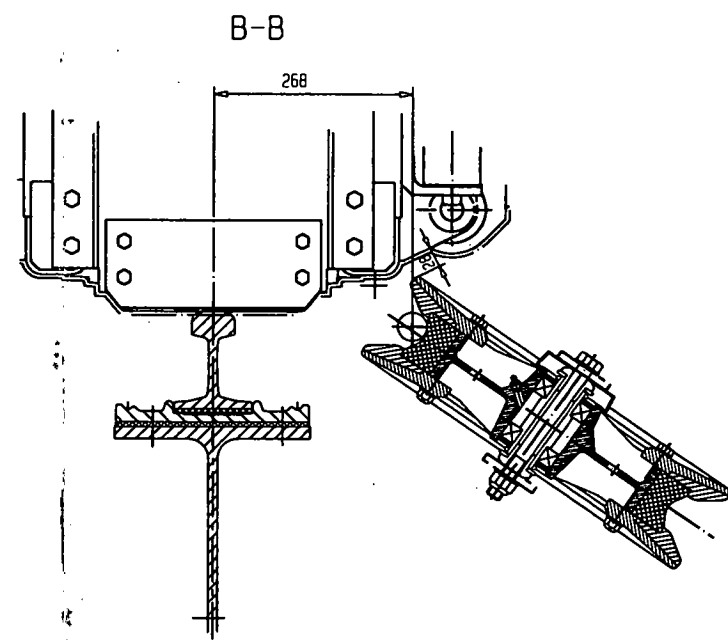
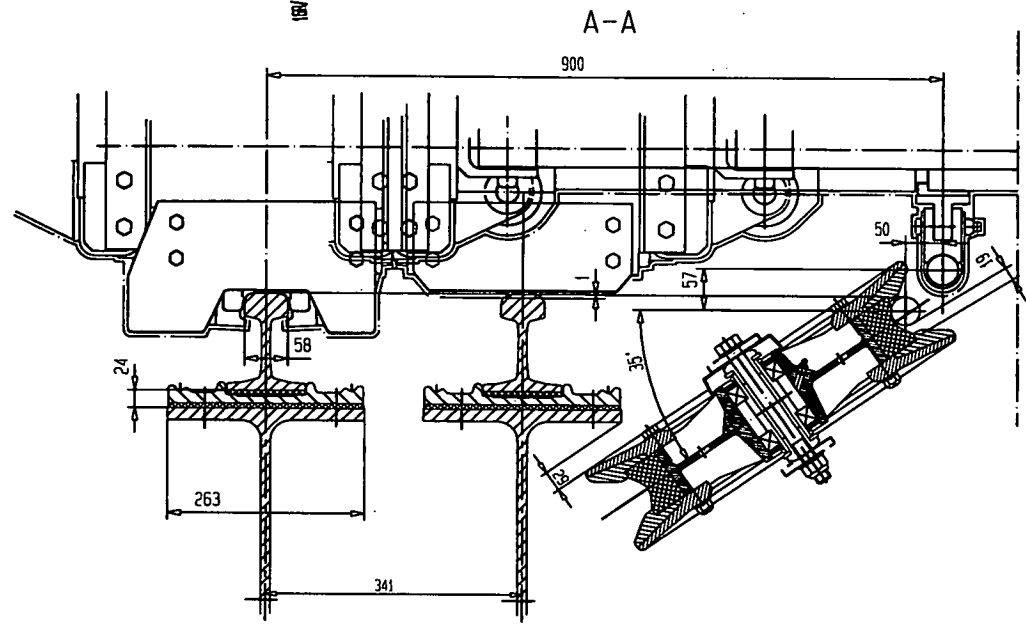
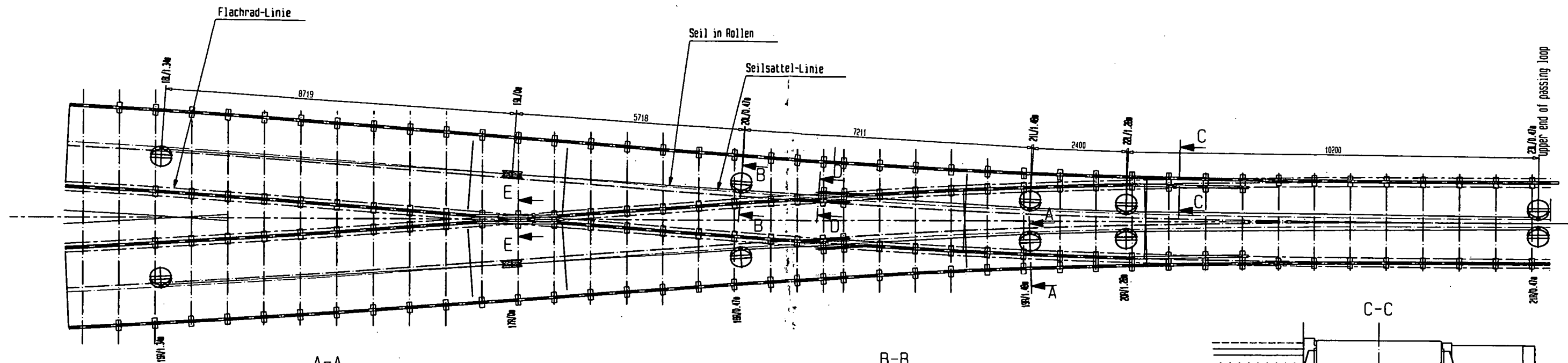


20811944	
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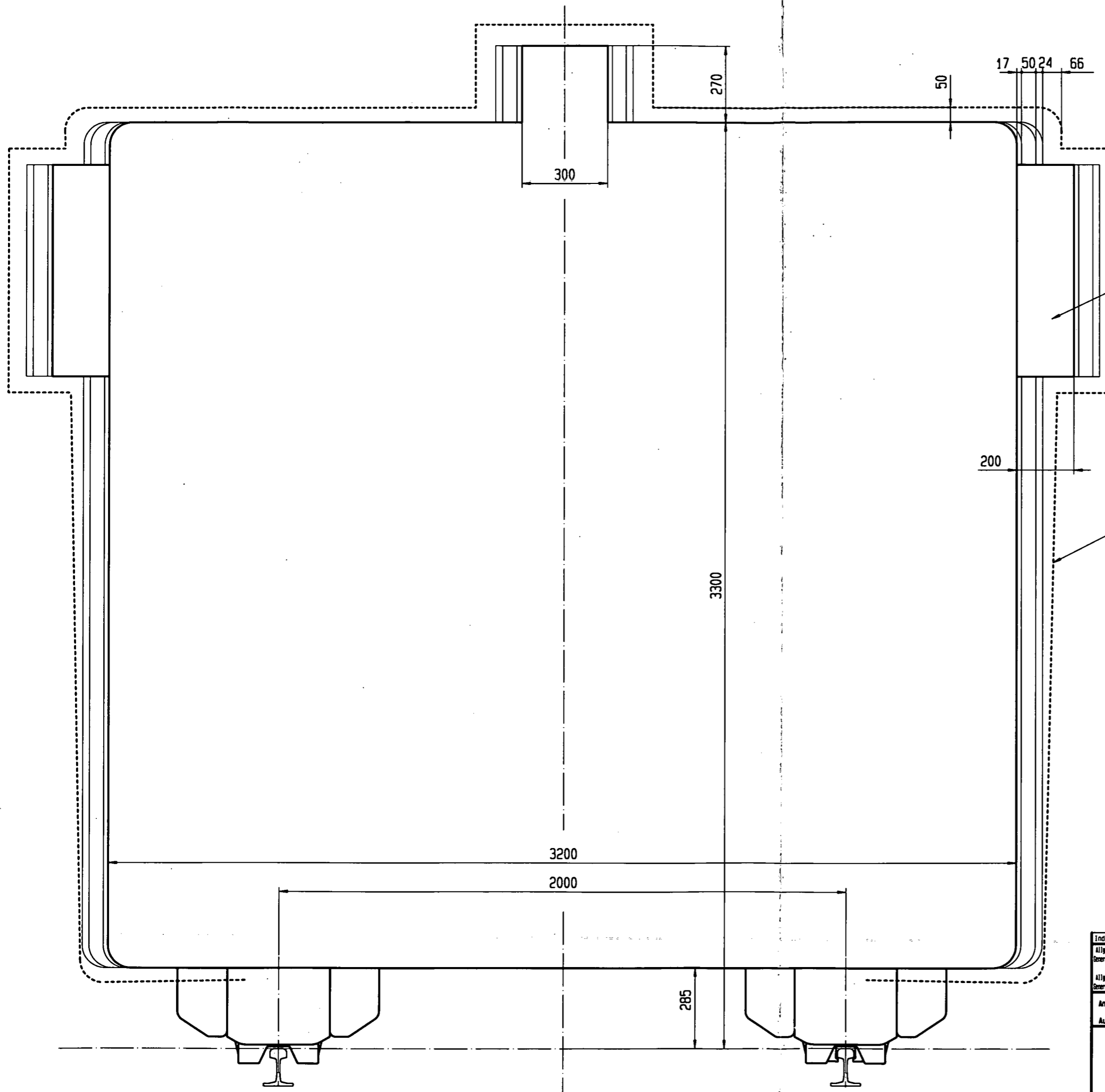


Situation: Ausweiche Berg 1/22-12502
 Ausweiche Tal 1/22-12503

208194	
Datum / Date: 2000-04-25 Zeichner / Drafter: SSB, CAIROU Auftrag / Order: 644000005	Maßstab / Scale: 1:75 Blatt / Sheet: 0/22-12501 Projekt / Project: Ausweiche Vebersicht
0/22-12501 a	
Doppelmayr Seilbahnen AG	



grundiert prime printed		XXXXXXXX	
Datum / Date: 1/22-12502 Name: Ausweiche Berg Auftrag / Description: SSB Cairngorm	Blatt / Sheet: 1/22-12502 Scale: 1:50 Zeichner: SSB-02-20	Blatt Nr. / Sheet no.: 1/22-12502 Blatt Nr. / Sheet no.: 1/22-12502	Blatt Nr. / Sheet no.: 1/22-12502 Blatt Nr. / Sheet no.: 1/22-12502
Doppelmayr Seilbahnen AG			



hand area

prEN 12929-1 6.1
Grenzlinie
Space envelope

BREITE:
 Seitlicher Geleisespur- und Fahrzeugspiel = 7mm
 Abmessungstoleranz (Fahrzeug, Geleise) = 10mm
 40mm seitliche Einfederung = 66mm
 Kinematischer Raumzuschlag = 50mm
 Horizontale Fahrzeugausladung Mitte (R200) = 24mm

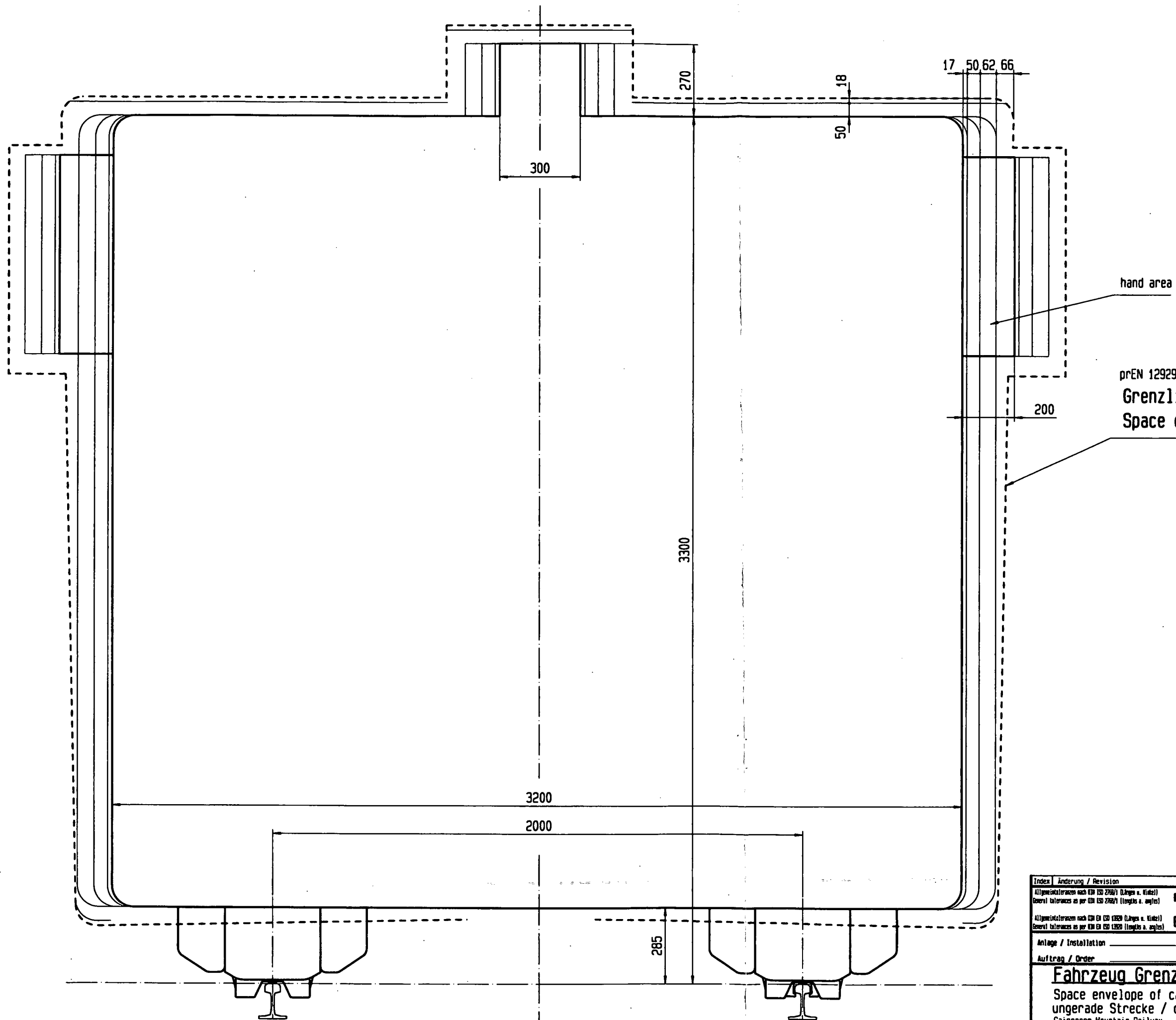
HÖHE:
 Kinematischer Raumzuschlag = 50mm

WIDTH:
 lateral play of carrier and track gauge = 7mm
 dimensional tolerances of the track and carrier = 10mm
 40mm spring deflection (one side) = 66mm
 kinematic space requirement = 50mm
 horizontal movement middle of carrier (R200m) = 24mm

HEIGHT:
 kinematic space requirement = 50mm

20815615

Index	Anderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths & angles)			K	
	Allgemeintoleranzen nach DIN EN ISO 1329 (Längen u. Winkel) General tolerances as per DIN EN ISO 1329 (lengths & angles)			F	
Anlage / Installation				X	
Auftrag / Order				Stück / Copies	
Fahrzeug Grenzlinie Space envelope of carrier Mittelstation / Shielding intermediate station Cairngorm Mountain Railway				Maßstab / Scale 1/10 Faktor: 0,707 gezeichnet / drawn: 2001-01-30 geprüft / approved: 2000-06-03 Geplottet: 2001-02-09 2001-02-09 REKONSTRUKTION KZ.: wie	Datum / Date 2001-01-30 2001-01-31 13:41:41
Ursprungsang. Nr. / Original orig. no. Zeichnungs Nr. / Drawing no. 80007541N221002				Ident. Nr. / Ident. no. Index	



hand area

prEN 12929-1 6.1
Grenzlinie
Space envelope

BREITE:
 Seitlicher Geleisespur- und Fahrzeugspiel = 7mm
 Abmessungstoleranz (Fahrzeug, Geleise) = 10mm
 40mm seitliche Einfederung = 66mm
 Kinematischer Raumzuschlag = 50mm
 Horizontale Fahrzeugausladung (R200m) = 62mm

HÖHE:
 Kinematischer Raumzuschlag = 50mm
 Vertikale Fahrzeugausladung (R700m) = 18mm

WIDTH:
 lateral play of carrier and track gauge = 7mm
 dimensional tolerances of the track and carrier = 10mm
 40mm spring deflection (one side) = 66mm
 kinematic space requirement = 50mm
 horizontal movement of carrier (R200M) = 62mm

HEIGHT:
 kinematic space requirement = 50mm
 vertical movement of carrier (R700m) = 18mm

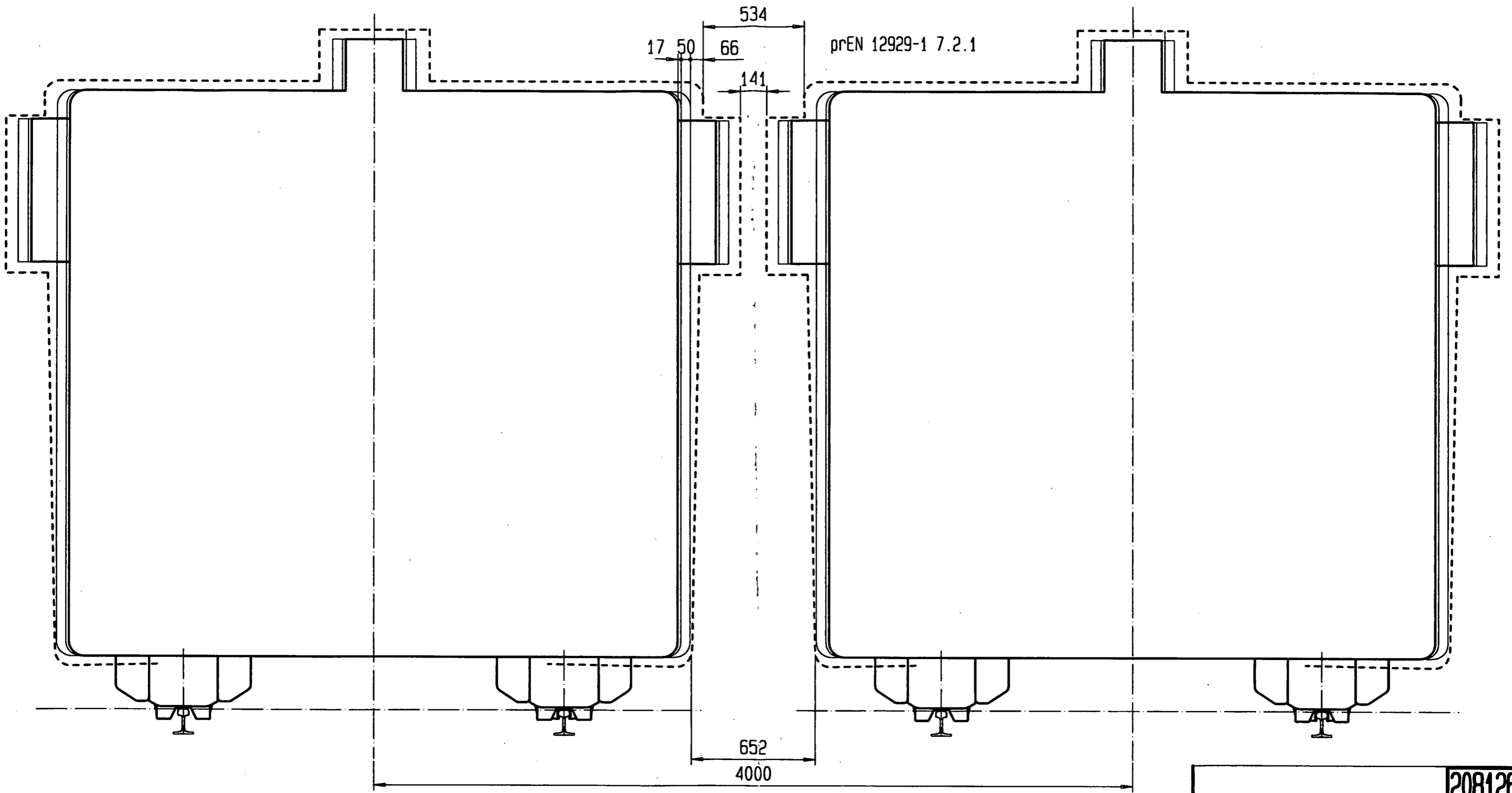
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Index	Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths & angles)		Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)	K	
	Allgemeintoleranzen nach DIN ISO 1389 (Längen u. Winkel) General tolerances as per DIN ISO 1389 (lengths & angles)		Allgemeintoleranzen nach DIN ISO 1389 (Form u. Lage) General tolerances as per DIN ISO 1389 (form & position)	F	
Anlage / Installation				Skizzen / Scale	Datum / Date
Auftrag / Order				1/10	2000-05-03
				Faktor: 0,707	2000-05-03
				Gezeichnet: 2000-12-30	2000-06-05
				2000-12-30	10:49:00
Fahrzeug Grenzlinie. Space envelope of carrier ungerade Strecke / curved track Cairngorm Mountain Railway				Zeichnungs Nr. / Drawing no.	Index
				80006018N221002	

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0-Klasse
0-class
- A2



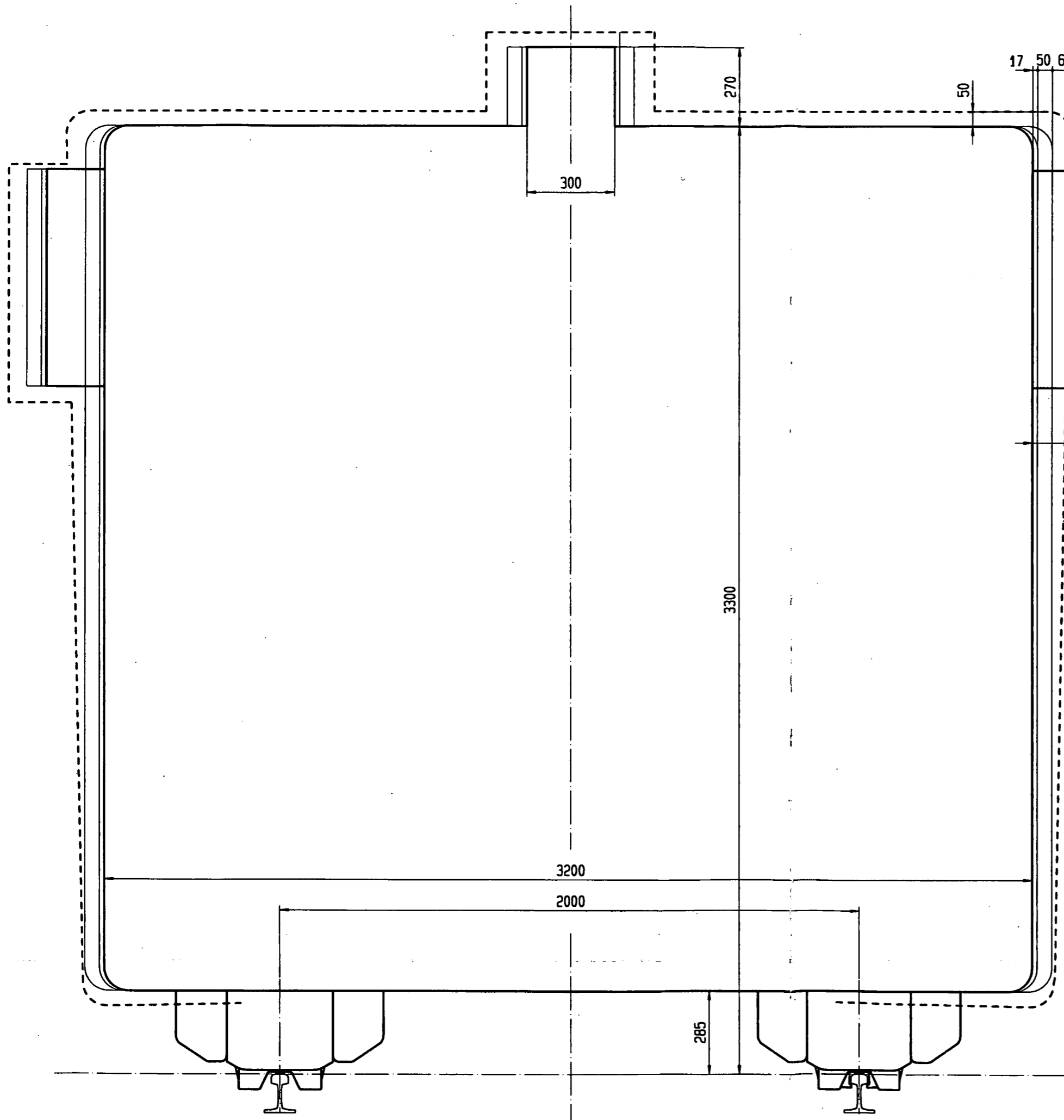
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Index	Anderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths a. angles)	m	Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form + position)	K	
	Allgemeintoleranzen nach DIN EN ISO 13920 (Längen u. Winkel) General tolerances as per DIN EN ISO 13920 (lengths a. angles)	B	Allgemeintoleranzen nach DIN EN ISO 13920 (Form u. Lage) General tolerances as per DIN EN ISO 13920 (form + position)	F	
Anlage / Installation					
Auftrag / Order				Stück / Copies	X
Fahrzeug Grenzlinie. Ausweiche Movement of carrier, passin loop gerade Strecke / straight track Cairngorm Mouten Railway				Massstab / Scale 1/20 Faktor: 1.000	Datum / Date 2000-06-03 Name wia 2000-06-03 Name wia
				Geplottet: 2000-12-30 wia 2000-12-30 KONSTRUKTION KZ.: wia	2000-06-05 10:51:54
				Zeichnungs Nr. 80006019N221002	Index 0-Klasse 0-class

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A3



hand area
 prEN 12929-1 6.1
 Grenzlinie
 Space envelope

BREITE ZUSCHLÄGE:
 Seitlicher Geleisespur- und Fahrzeugspiel = 7mm
 Abmessungstoleranz (Fahrzeug, Geleise) = 10mm
 40mm seitliche Einfederung = 66mm
 Kinematischer Raumzuschlag = 50mm

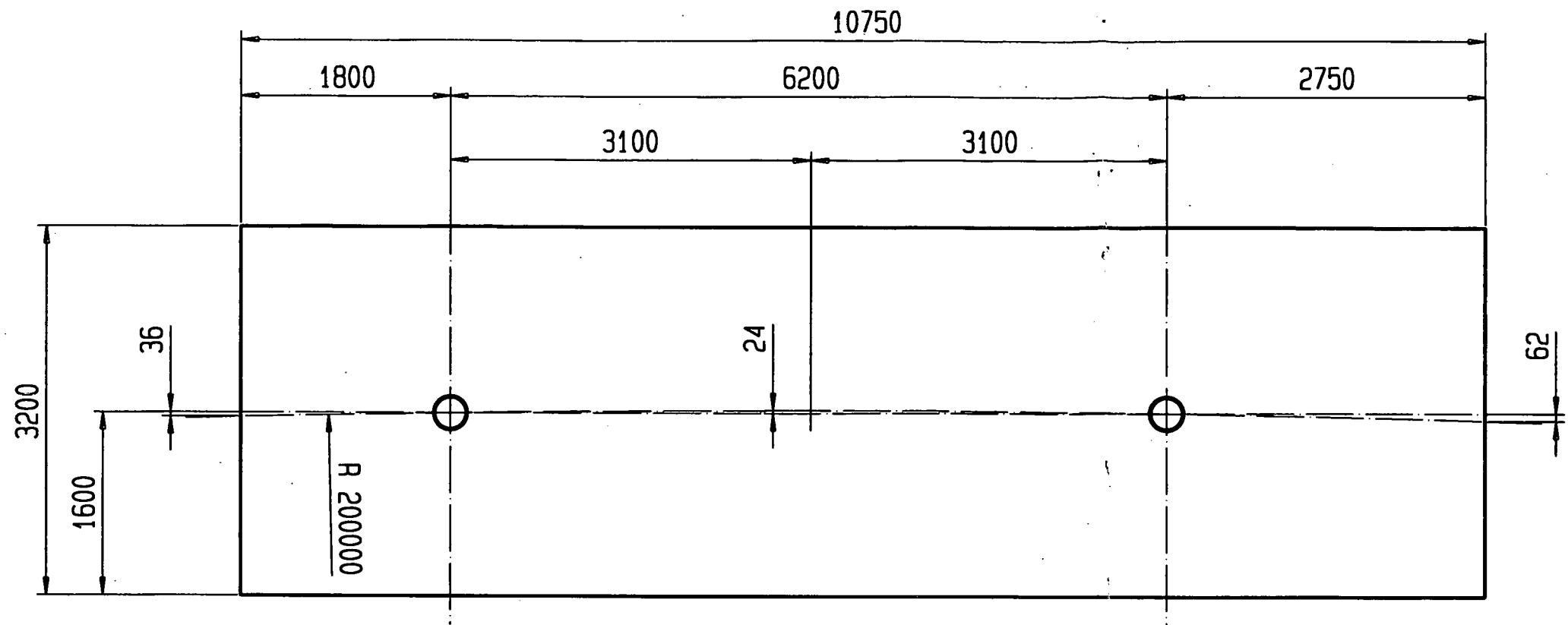
HÖHE ZUSCHLAG:
 Kinematischer Raumzuschlag = 50mm

WIDTH:
 lateral play of carrier and track gauge = 7mm
 dimensional tolerances of the track and carrier = 10mm
 40mm spring deflection (one side) = 66mm
 kinematic space requirement = 50mm

HEIGHT:
 kinematic space requirement = 50mm

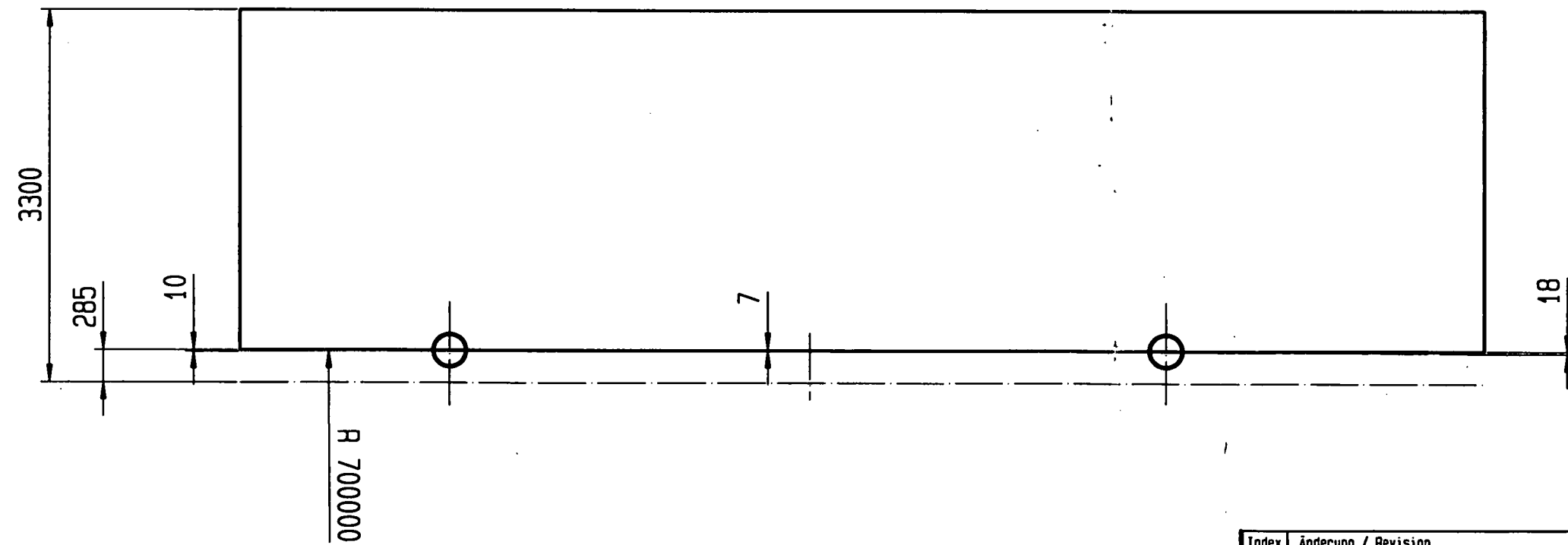
20812653

Index	Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths & angles)			K	
	Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)			F	
	Allgemeintoleranzen nach DIN EN ISO 1302 (Längen u. Winkel) General tolerances as per DIN EN ISO 1302 (lengths & angles)			B	
	Allgemeintoleranzen nach DIN EN ISO 1302 (Form u. Lage) General tolerances as per DIN EN ISO 1302 (form & position)			F	
Anlage / Installation				Maßstab / Scale	Datum / Date
Auftrag / Order				1/10	2000-06-03
				Faktor: 0,707	2000-06-03
				Gezeichnet: 2000-12-30	2000-06-05
				2000-12-30	10:45:46
				KONSTRUKTION KZ.: wie	
Fahrzeug Grenzlinie. Space envelope of carrier gerade Strecke/straight track Cairngorm Mountain Railway				Ursprungs- Nr. / Original draw. no.	Ident. Nr. / Ident. no.
				80006017N221002	



bergwärts
uphill
→

Fahrzeugausladung horizontal
Horizontal movement of carriers
round curves



bergwärts
uphill
→

Fahrzeugausladung vertikal
Vertical movement of carriers
round curves

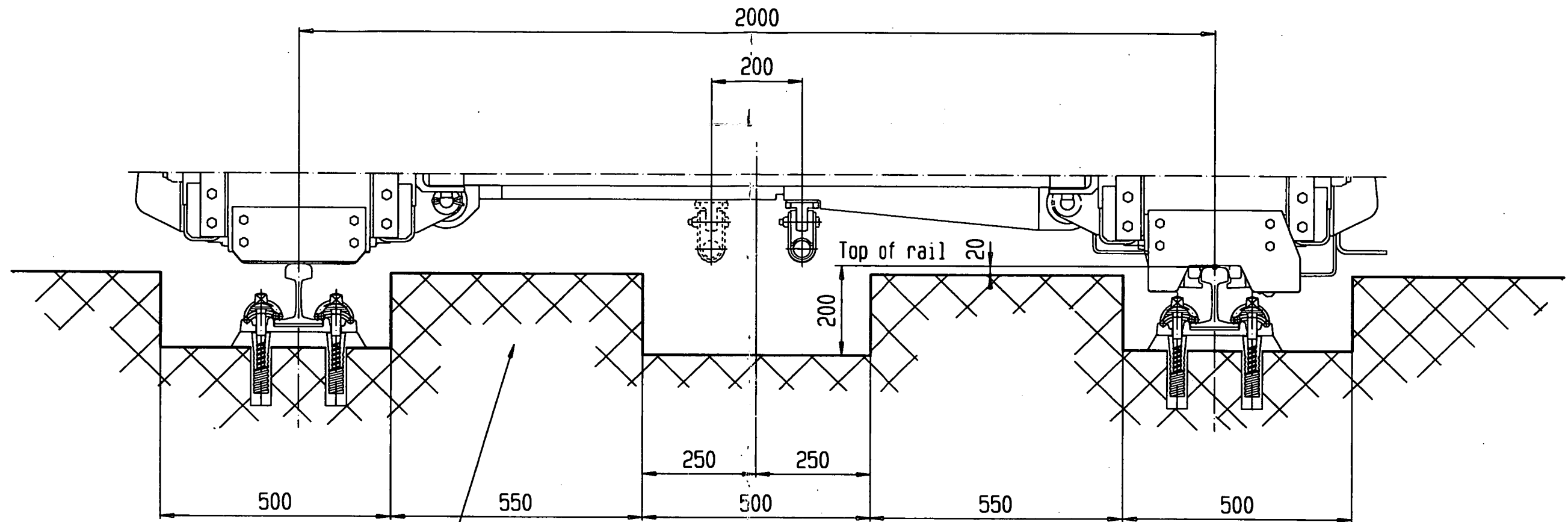
20812651

Index	Anderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths a. angles)	m	Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form + position)	K	
	Allgemeintoleranzen nach DIN EN ISO 13920 (Längen u. Winkel) General tolerances as per DIN EN ISO 13920 (lengths a. angles)	B	Allgemeintoleranzen nach DIN EN ISO 13920 (Form u. Lage) General tolerances as per DIN EN ISO 13920 (form + position)	F	
Anlage / Installation				Stück / Copies	
Auftrag / Order				X	
Fahrzeugausladung Movement of carriers Cairngorm mountain railway				Geplottet: 2000-12-30 via 2000-12-30 KONSTRUKTION KZ.: <i>wia</i>	
				Datum / Date 2000-06-03 Name <i>wia</i>	
				Dateiname / Date name 2000-06-03 <i>wia</i>	
				Zeichnungs-Nr. / Drawing no. 80006014N221002	
				Index	

Doppelmayr Seilbahnen AG

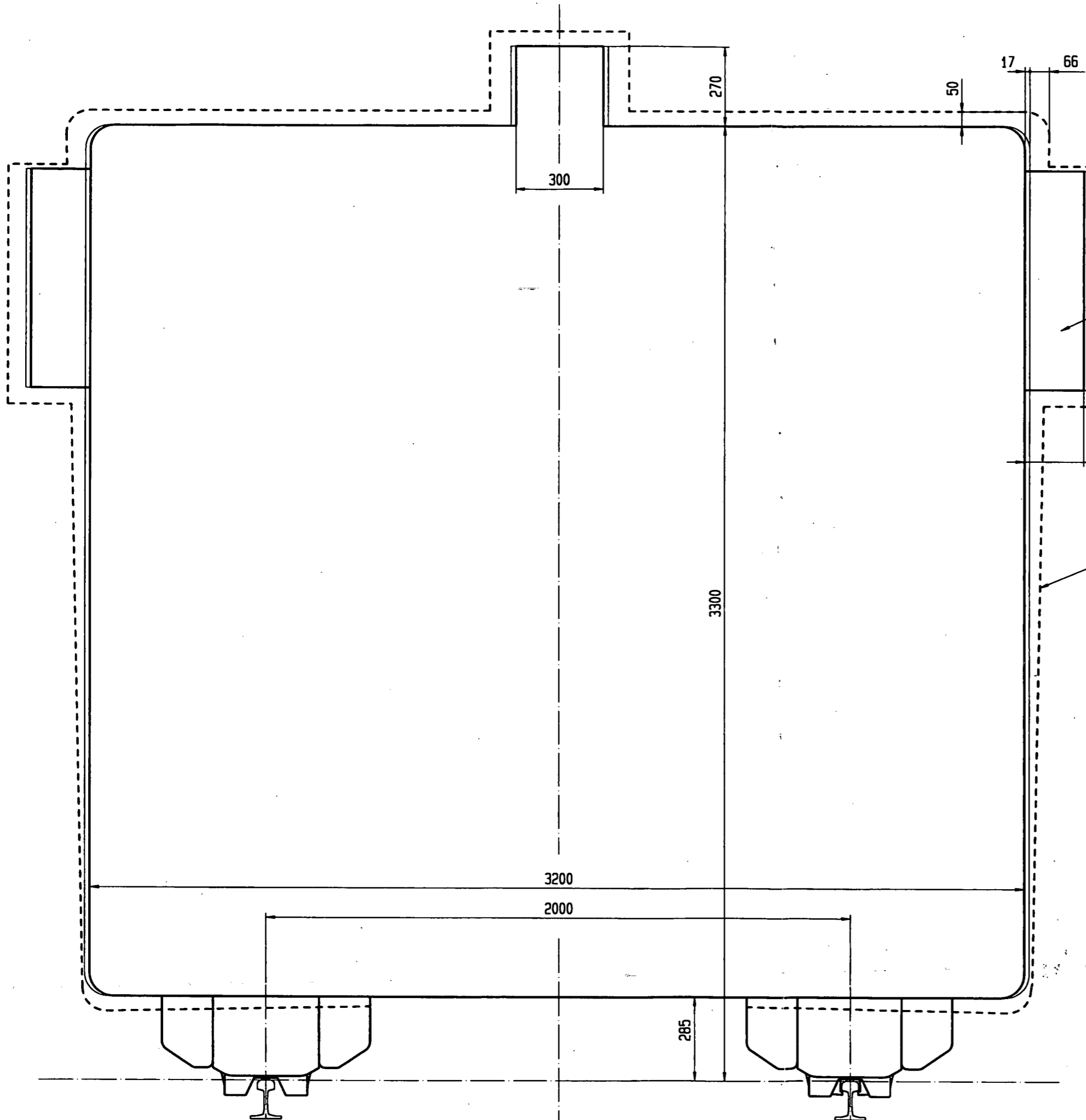
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0-Klasse
0-class
- A3



Required recess under carriage
tunnel entrance

						00000000	
Index	Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.		
	Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths a. angles)	M	Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form + position)	K	Maßstab / Scale	Datum / Date	Name
	Allgemeintoleranzen nach DIN EN ISO 13920 (Längen u. Winkel) General tolerances as per DIN EN ISO 13920 (lengths a. angles)	B	Allgemeintoleranzen nach DIN EN ISO 13920 (Form u. Lage) General tolerances as per DIN EN ISO 13920 (form + position)	F	1/10 Faktor: 1.000	2000-02-17	wia
Anlage / Installation				Stück / Copies		Geplottet: 2000-12-30 wia 2000-12-30 KONSTRUKTION KZ.: wia	
Auftrag / Order				X		2000-02-17 16:09:59	
Recess tunnel entrance Cairngorm funicular						Ursprungszng. Nr. / Original drwg. no. Ident. Nr. / Ident. no.	
						Zeichnungs Nr. / Drawing no. Index 80005447N221003	
Doppelmayr Seilbahnen AG				Diese Zeichnung ist unser geistiges Eigentum. Sie darf ohne unsere besondere Zustimmung weder vervielfältigt, noch ausgeführt, noch dritten Personen bekanntgegeben werden. This drawing or information is the property of Doppelmayr Tramways Ltd. and must not be copied nor utilized in whole or in part without permission and is subject to return upon request.		0-Klasse 0-class - A3	



hand area

prEN 12929-1 6.1
Grenzlinie
Space envelope

BREITE:
Seitlicher Geleisespur- und Fahrzeugspiel = 7mm
Abmessungstoleranz (Fahrzeug, Geleise) = 10mm
40mm seitliche Einfederung = 66mm

HÖHE:
Kinematischer Raumzuschlag = 50mm

WIDTH:
lateral play of carrier and track gauge = 7mm
dimensional tolerances of the track and carrier = 10mm
40mm spring deflection (one side) = 66mm

HEIGHT:
kinematic space requirement = 50mm

20812652

Index / Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
Allgemeintoleranzen nach DIN ISO 2768/2 (Länge u. Winkel) General tolerances as per DIN ISO 2768/2 (length & angles)			K	
Allgemeintoleranzen nach DIN EN ISO 1328 (Länge u. Winkel) General tolerances as per DIN EN ISO 1328 (length & angles)			F	
Maßstab / Scale 1/10 Faktor: 0,707 gepr. 2000-06-03 gepr. 2000-06-03 approved				Datum / Date 2000-06-03 Name via
Anlage / Installation Auftrag / Order Stück / Copies X				Geplottet: 2000-12-30 via 2000-12-30 KONSTRUKTION KZ.: via 2000-06-05 10:43:35
Fahrzeug Grenzlinie. Space envelope of carrier in Station / in station Cairngorm Mountain Railway				Ursprungung. Nr. / Original drwg. no. Ident. Nr. / Ident. no. Zeichnungs Nr. / Drawing no. 80006015N221002

Notes
 1. REFER TO DRAWING No. 1080ET(600)006 FOR DETAIL OF UNDERGROUND CABLE INSTALLATION ALONG LENGTH OF ELECTRICAL SERVICES TRACK.



A	TRACK ROUTE REVISED ENTERING DA...	21/05/99
Rev	Description	By Date

Drg. Status
INFORMATION

Blackwood Partnership
 Consulting Engineers
 6-7 Atholl Place EDINBURGH EH3 6HP
 Tel 0131 229 7268 Fax 0131 221 8300
 E-mail: matt@blackwood.co.uk

Client
 Cairngorm Chairlift Co. Ltd.

Project
 Cairngorm Funicular Railway

Title
 Electrical Services Track
 Sheet 1 of 3

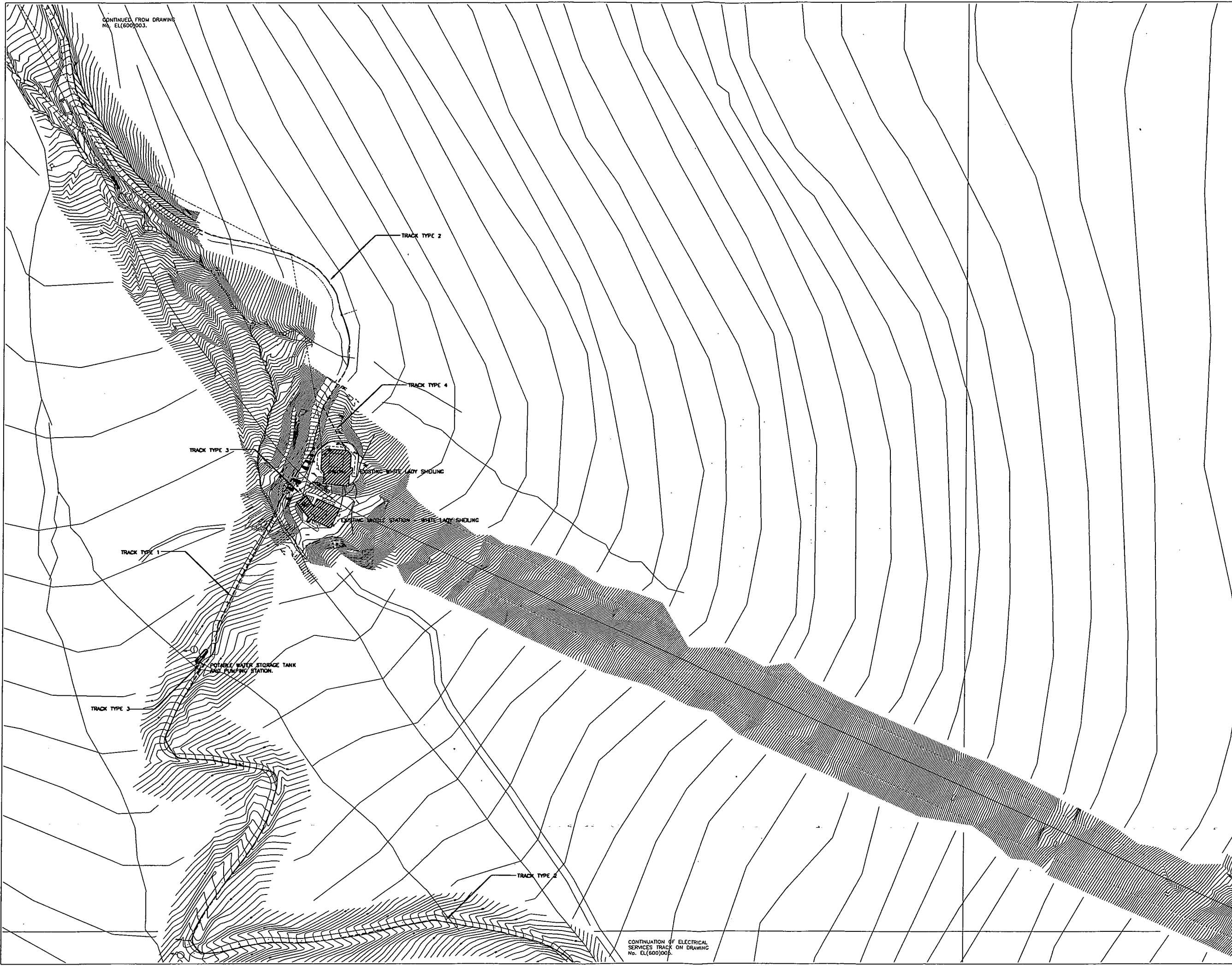
A1 Scale	A3 Scale	Date	Engineer	Checked
1:1250	1:2500	29/07/99		
Drg No	Rev			
1080EL(600)003	A			

CONTINUATION OF ELECTRICAL SERVICES TRACK ON DRAWING No. EL(600)004.

CONTINUED FROM DRAWING
No. EL(600)003.

Drg. No. **1080EL(600)004** Rev -

Notes
1. REFER TO DRAWING No. 1080ET(600)006 FOR DETAIL OF UNDERGROUND CABLE INSTALLATION ALONG LENGTH OF ELECTRICAL SERVICES TRACK.



Drg. Status
INFORMATION

Blackwood Partnership
Consulting Engineers

6-7 Auld Place EDINBURGH EH3 8HP
Tel: 0131 229 7268 Fax: 0131 221 8300
E-mail: mail@blackwood.co.uk

Client
Cairngorm Chairlift Co. Ltd.

Project
Cairngorm Funicular Railway

Title
Electrical Services Track
Sheet 2 of 3

A3 Scale	A3 Scale	Date	Engineer	Checked
1:1250	1:2500	29/07/99	JS	KJ

Drg No
1080EL(600)004 Rev -

CONTINUATION OF ELECTRICAL SERVICES TRACK ON DRAWING No. EL(600)003.

CONTINUED FROM DRAWING
No. EL(600)004.

Drg. No. 1080EL(600)005 Rev A

Notes
1. REFER TO DRAWING No. 1080ET(600)006 FOR DETAIL OF UNDERGROUND CABLE INSTALLATION ALONG LENGTH OF ELECTRICAL SERVICES TRACK.



Rev	Description	By	Date
A	ELECTRIC TRACK ROUTE AMENDED BETWEEN SHEILING AND PTARMICAN.		8/05/99

Drg. Status
INFORMATION

Blackwood Partnership
Consulting Engineers
6-7 Ashell Place
EDINBURGH
EH3 8RP
Tel 0131 229 7268
Fax 0131 221 8300
E-mail: mail@blackwood.co.uk

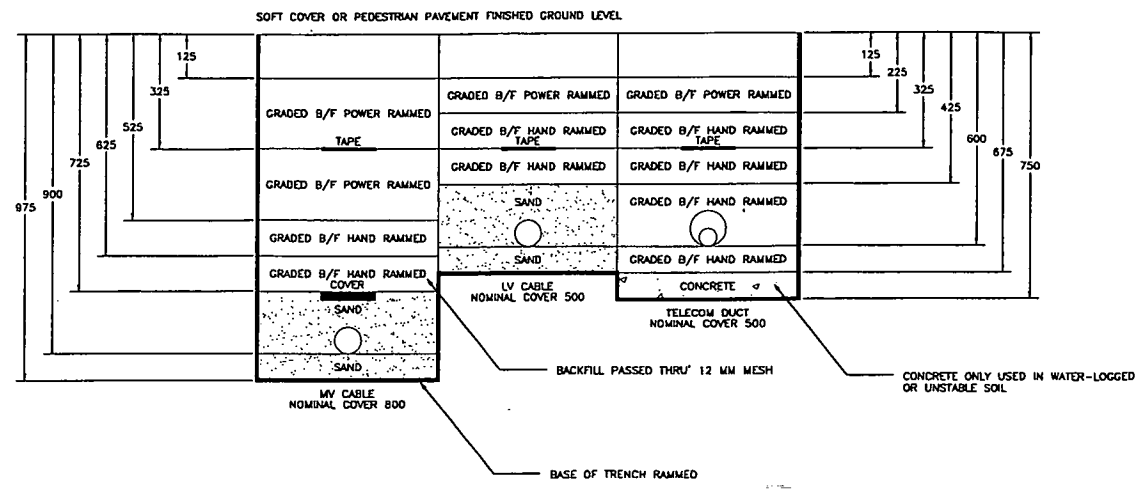
Client
Cairngorm Chairlift Co. Ltd.

Project
Cairngorm Funicular Railway

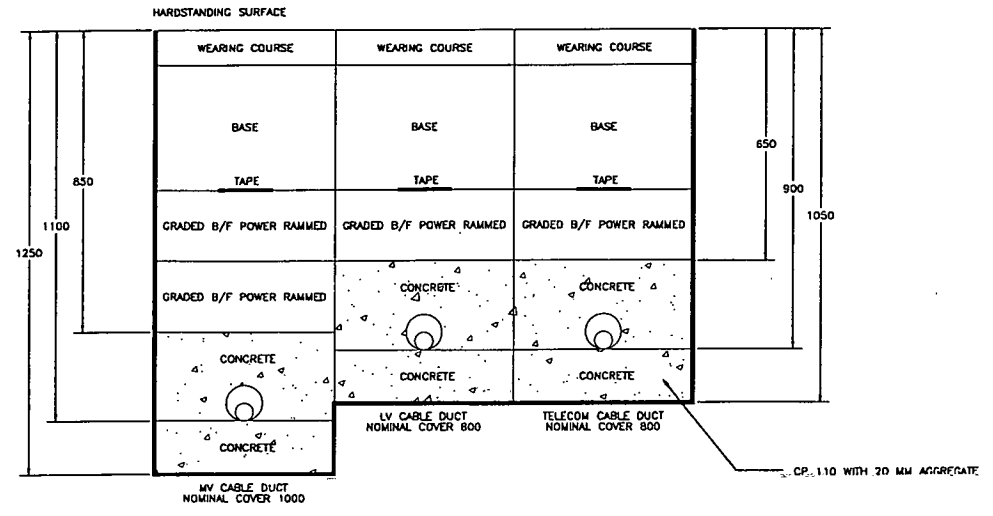
Title
Electrical Services Track
Sheet 3 of 3

A1 Scale	A3 Scale	Date	Engineer	Checked
1:1250	1:2500	29/07/99	JS	KJ

Drg No 1080EL(600)005 Rev A



TYPICAL TRACK SECTION BELOW SOFT COVER OR PEDESTRIAN PAVEMENT



TYPICAL TRACK SECTION BELOW ROADWAY OR HARDSTANDING

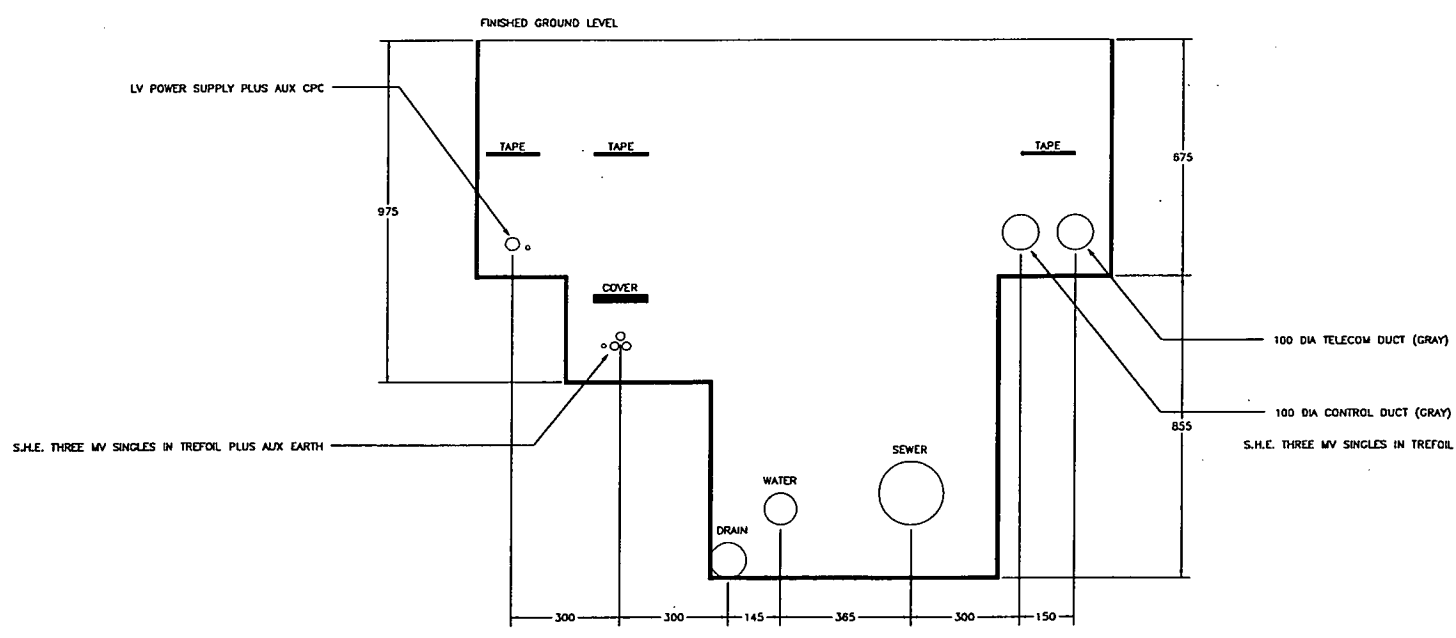
- Notes**
- #1 U/G CABLE INSTALLATIONS SHALL COMPLY WITH DOE STANDARD SPECIFICATION M&E No1 SECTION SIX.
 - #2 DUCT DRAW PITTS SHALL BE AT 100 M INTERVALS ON STRAIGHT RUNS.
 - #3 DUCT DRAW PITTS SHALL BE INSTALLED AT INTERSECTIONS AND CHANGES IN DIRECTION.
 - #4 DUCTS SHALL BE METROFLOW TWINFLEX.
 - #5 DRAWPITS SHALL BE METROFLOW PLASTIC.
 - #6 MV CABLES SHALL BE INSTALLED TO SCOTTISH HYDRO-ELECTRIC SUPPLEMENTARY REQUIREMENTS.

MINIMUM COVER FOR U/G CABLES

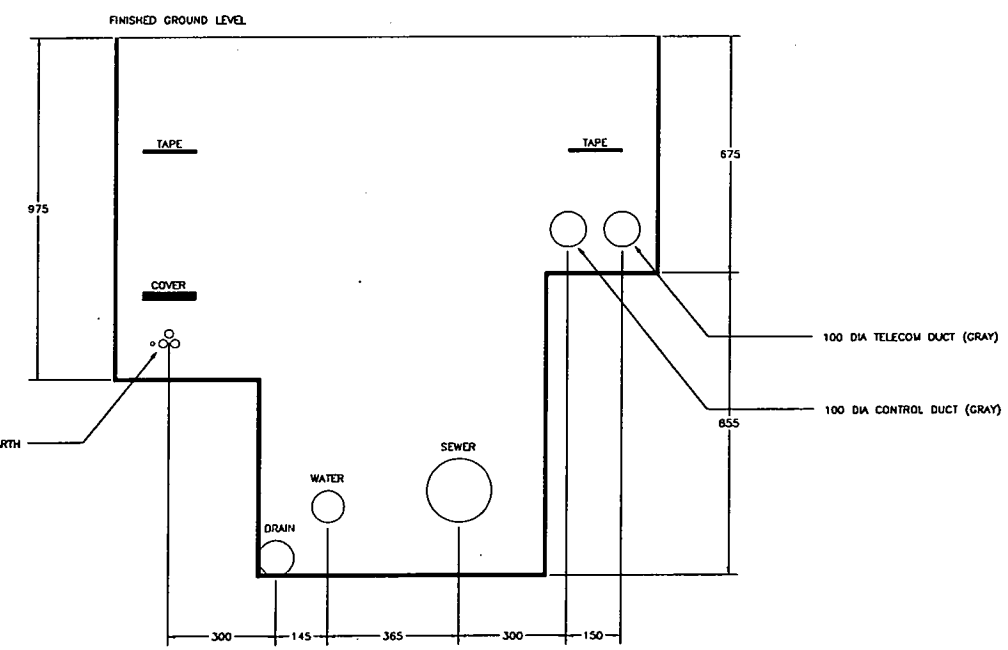
TYPE OF CABLE	LOCATION & DEPTH OF COVER		
	OPEN GROUND & UNDER PAVEMENTS	UNDER ROADWAYS	IN OTHER SITUATIONS
MV	800	1000	AS INDICATED
LV	500	800	
TELECOMS/CONTROL			

MINIMUM SPACING OF U/G CABLES

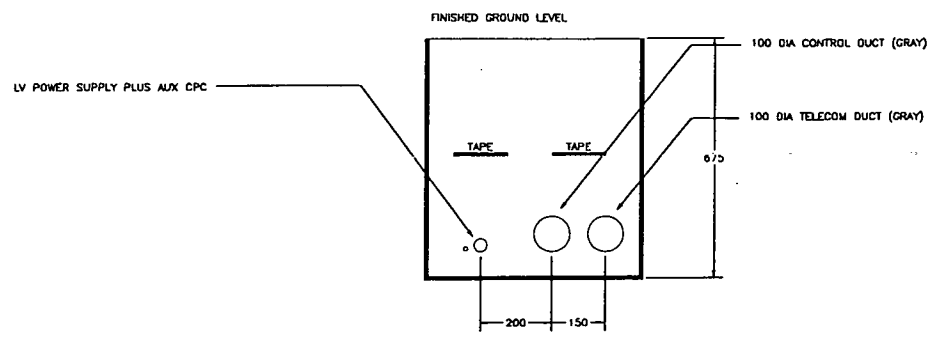
CABLE	MV	LV	TELEPHONE	PIPES
MV	50	300	300	300
LV	300	25	150	300
TELECOM/CONTROL	300	150	50	200



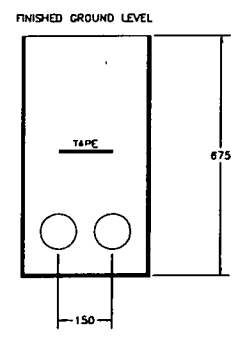
TRACK TYPE 1



TRACK TYPE 2



TRACK TYPE 3



TRACK TYPE 4

Drng. Status INFORMATION



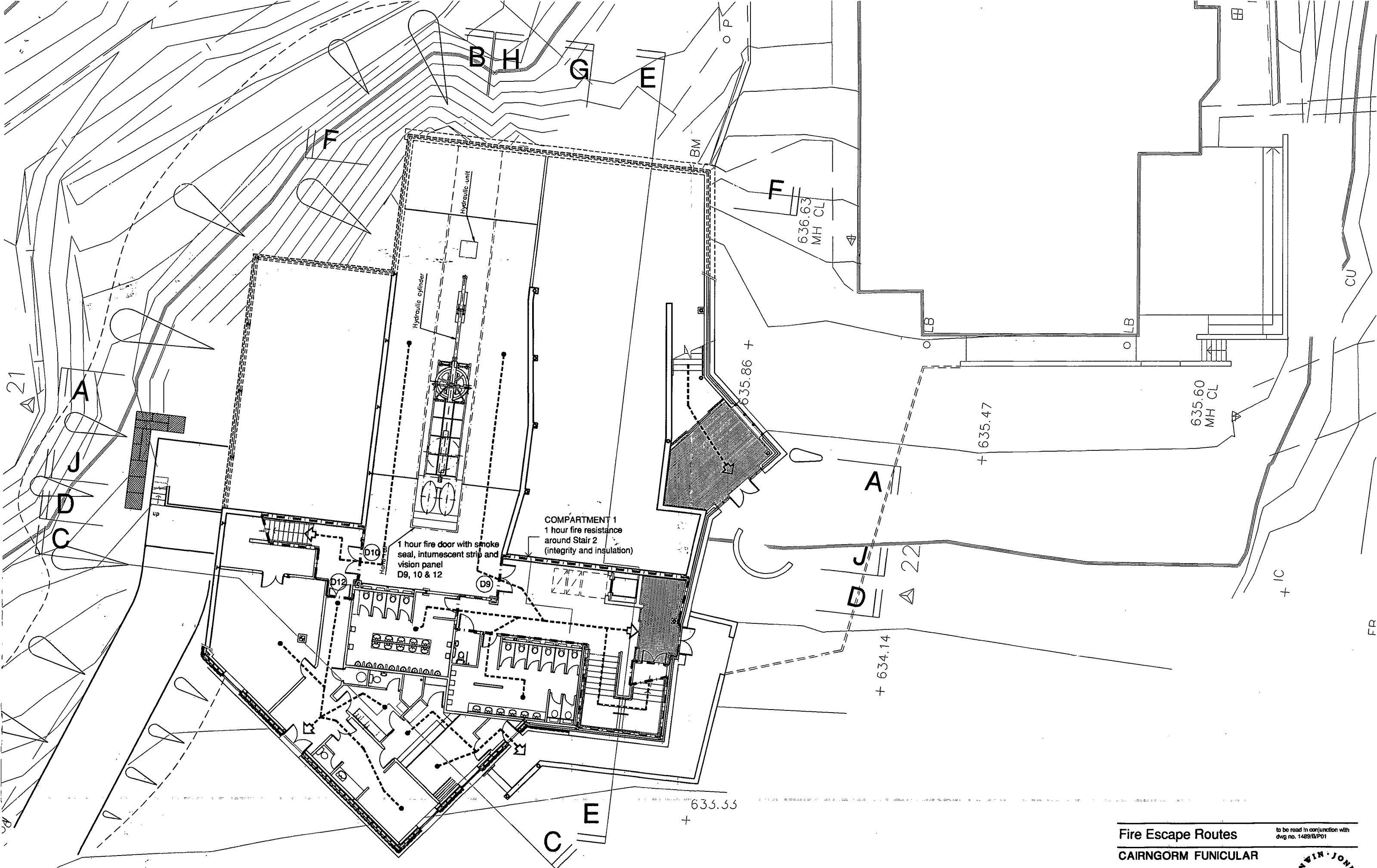
6-7 Atholl Place EDINBURGH EH3 8HP
 Tel 0131 229 7268 Fax 0131 221 8300
 E-mail: mail@blackwood.co.uk

Client: Cairngorm Chairlift Co. Ltd.

Project: Cairngorm Funicular Railway

Title: Underground Cable Installation

A1 Scale: HTS A3 Scale: HTS Date: 21/07/00 Engineer: Checked:



Fire Escape Routes to be read in conjunction with
dwg no. 1489/B/P01

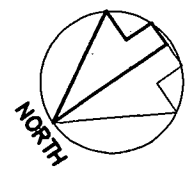
CAIRNGORM FUNICULAR

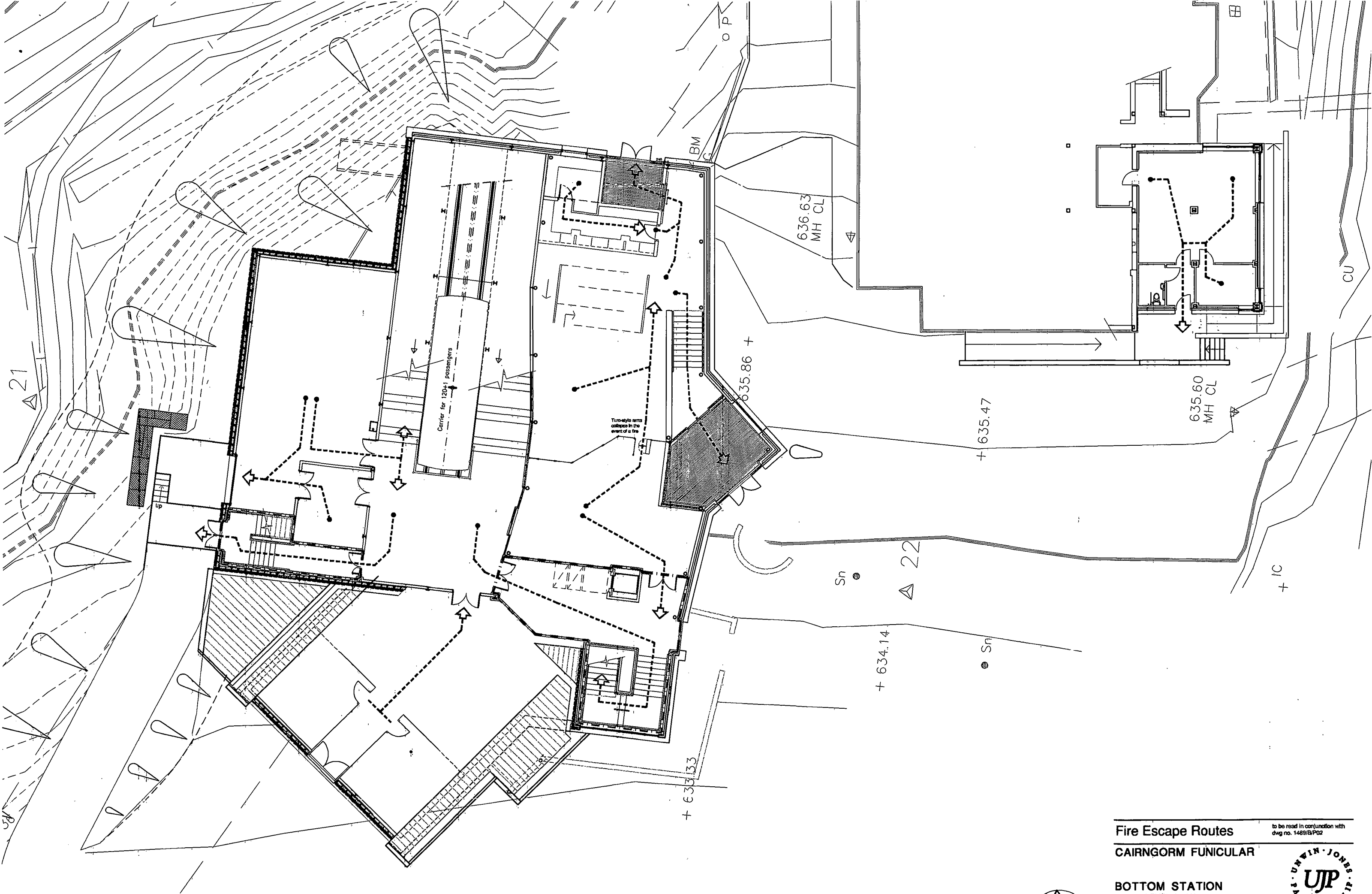
BOTTOM STATION
LOWER LEVEL PLAN
634.00



drawn : scale : 1:100-A1 (t200-A3) **CHARTERED**
date : AUG 99 drawing no : 1489/B/P01/J **ARCHITECTS**

SKIDDER LAKE STUDIO • CALDERWATTS • CARLISLE • CUMBRIA • CA3 2BB • TEL. 01276 52626 • FAX 01276 52469





COIRE CAS CAR PARK

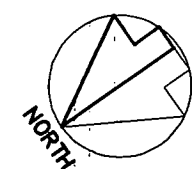
Fire Escape Routes to be read in conjunction with
dwg no. 1489/B/P02

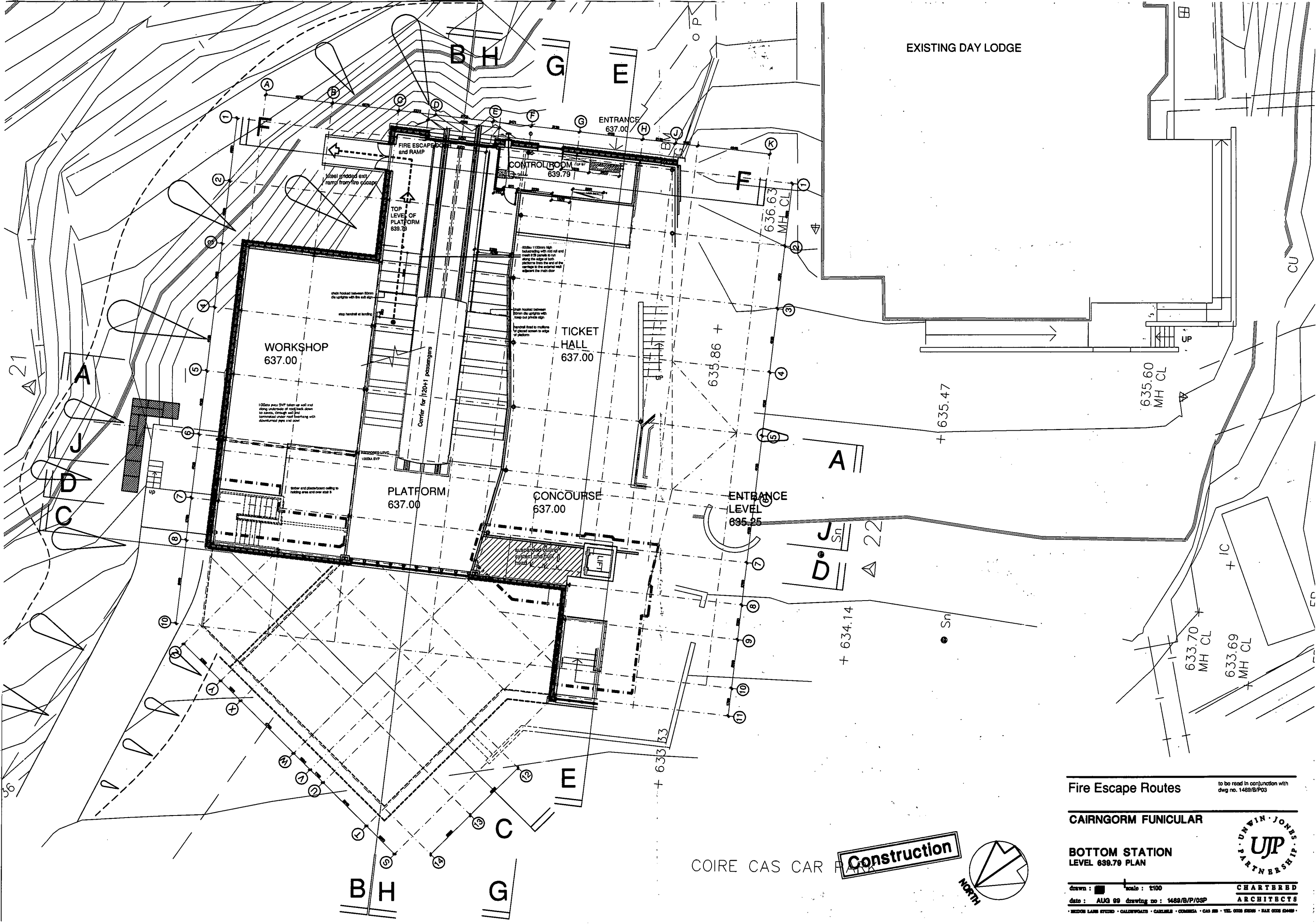
CAIRNGORM FUNICULAR

BOTTOM STATION
UPPER LEVEL PLAN
637.00



drawn: [] scale: 1:100-A1 (t200-A3) **CHARTERED**
date: AUG 88 drawing no: 1489/B/P02J **ARCHITECTS**
• BRIDGES LANDS ETTING • CALDERWORTH • CARLISLE • CUMBERLAND • CUMBRIA • C33 589 • TEL: 01282 52840 • FAX: 01282 52840





EXISTING DAY LODGE

ENTRANCE
637.00

FIRE ESCAPE
and RAMP

CONTROL ROOM
639.79

WORKSHOP
637.00

TICKET
HALL
637.00

PLATFORM
637.00

CONCOURSE
637.00

ENTRANCE
LEVEL
635.25

A

D J Sn

22

+ 634.14

+ 635.47

+ 635.86

635.60
MH CL

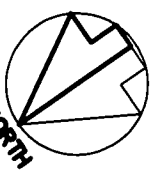
633.70
MH CL

633.69
MH CL

+ IC

COIRE CAS CAR

Construction



Fire Escape Routes

to be read in conjunction with
dwg no. 1489/B/P03

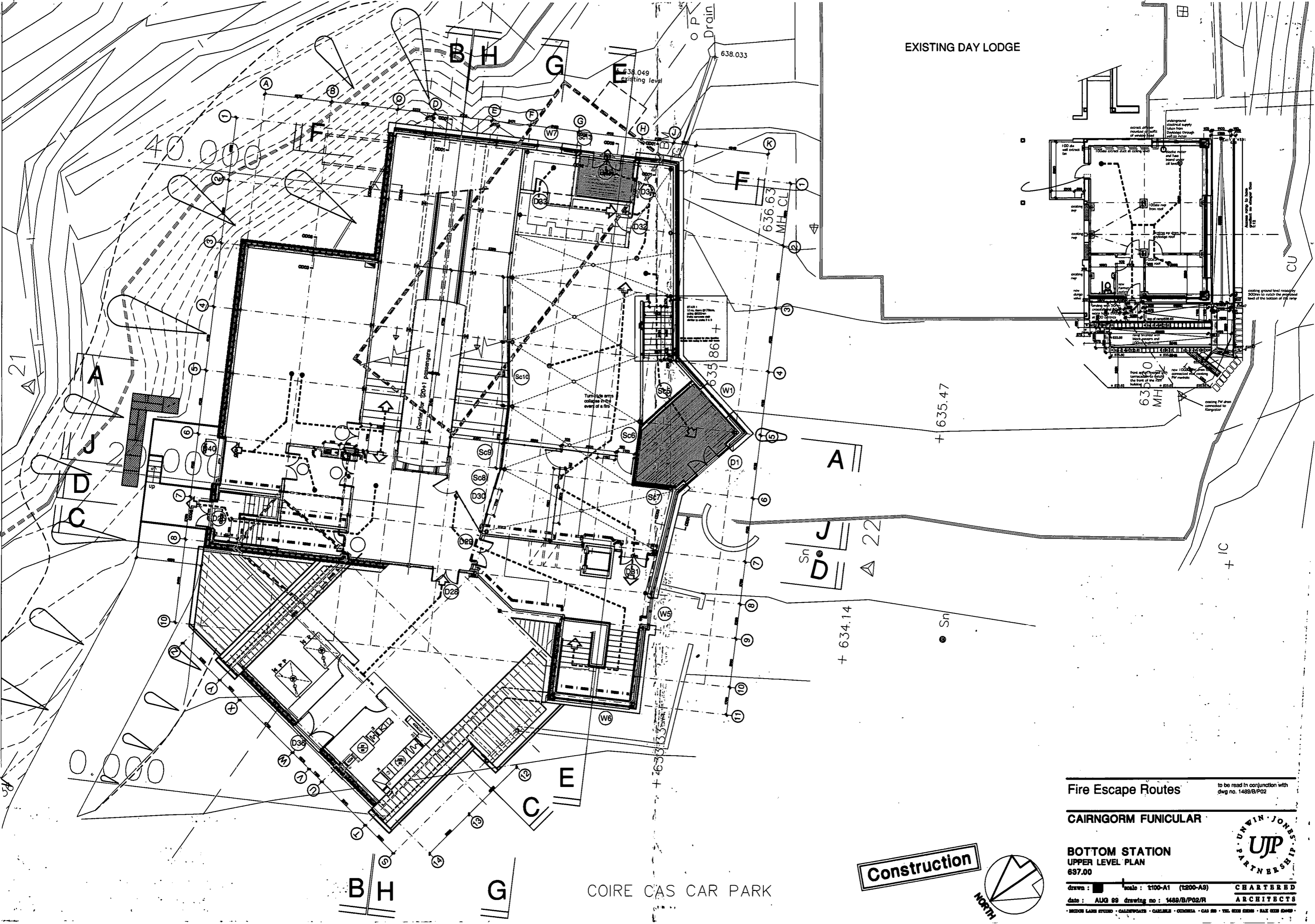
CAIRNGORM FUNICULAR

BOTTOM STATION
LEVEL 639.79 PLAN



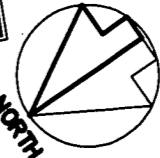
drawn : [] scale : 1:100
date : AUG 99 drawing no : 1489/B/P/03P
CHARTERED ARCHITECTS

• MIDGON LANE STYDRO • CALDWAYGATE • GARGALE • CORNISH • G43 9B • TEL: 0228 2828 • FAX: 0228 2848 •



COIRE CAS CAR PARK

Construction



Fire Escape Routes

to be read in conjunction with
dwg no. 1489/B/P02

CAIRNGORM FUNICULAR

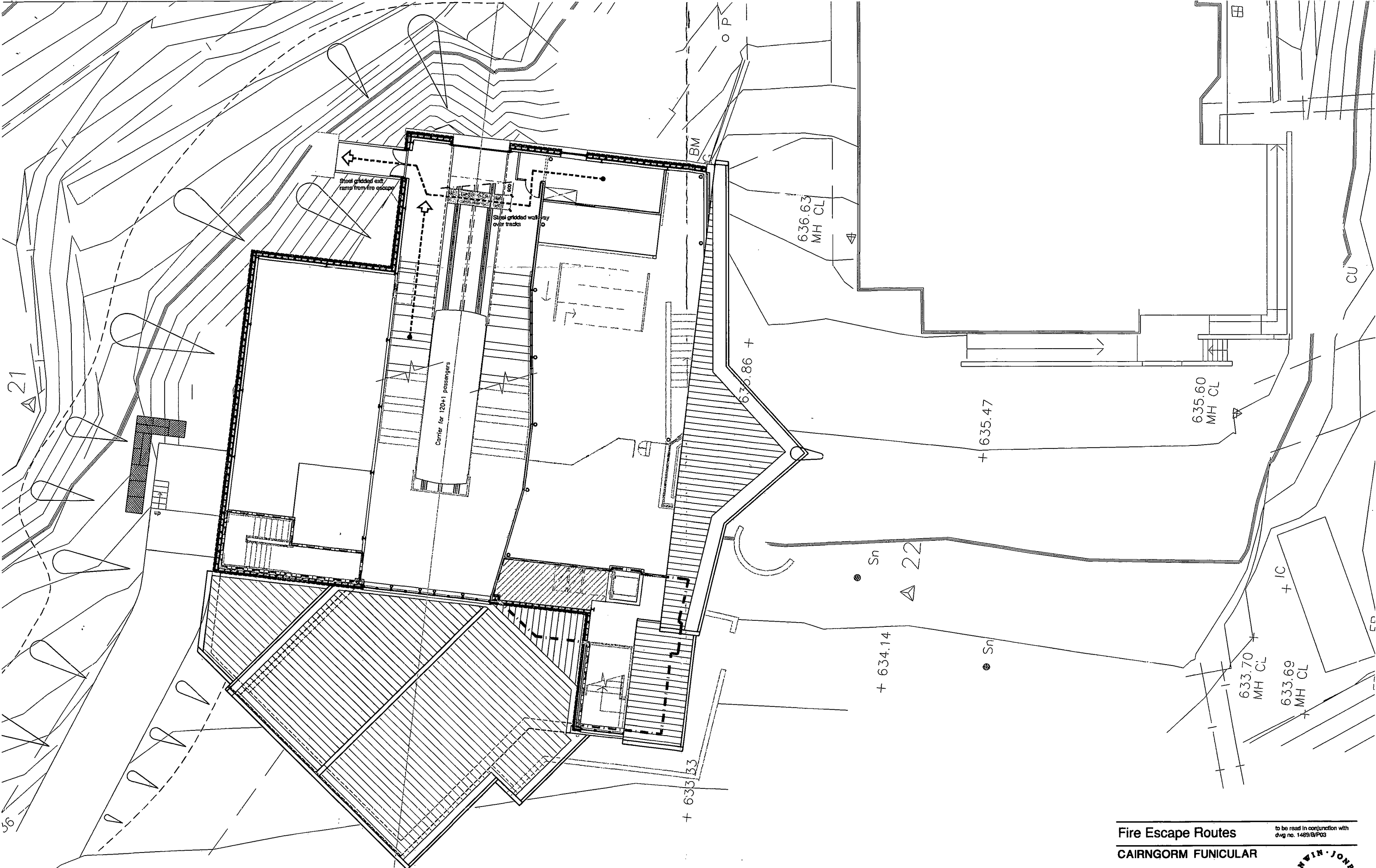
**BOTTOM STATION
UPPER LEVEL PLAN
637.00**

drawn: [] scale: 1:100-A1 (1:200-A3) **CHARTERED ARCHITECTS**

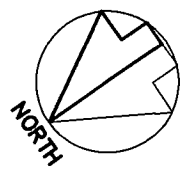
date: AUG 99 drawing no: 1489/B/P02/R



• BECOM LANE STUDIO • CALDERWATTS • GAREBEE • COCHRAN • GAS 88 • TEL: 0228 2288 • FAX: 0228 2288



COIRE CAS CAR PARK



Fire Escape Routes to be read in conjunction with d.wg no. 1489/B/P03

CAIRNGORM FUNICULAR

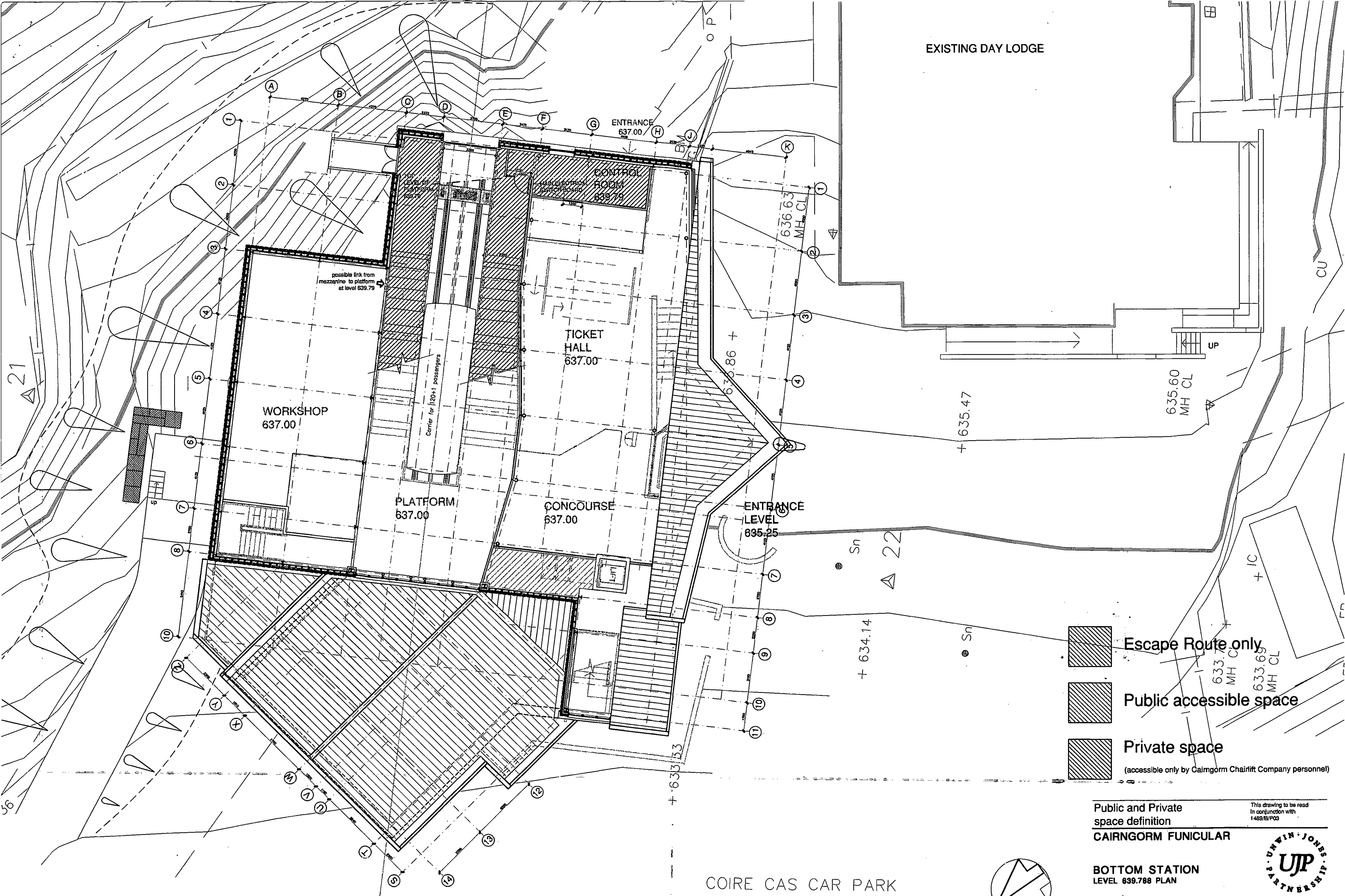
BOTTOM STATION
LEVEL 639.788 PLAN



drawn : scale : 1:100
date : AUG 99 drawing no : 1489/B/P/030

CHARTERED ARCHITECTS

BRIDGE LANE STUDIO • CALDWAY • CARLEZE • CUMBERLAND • CAS 200 • THE GLEN SHOPS • BAY CITY 2000



EXISTING DAY LODGE

ENTRANCE
637.00

CONTROL ROOM
639.79

TICKET HALL
637.00

WORKSHOP
637.00

PLATFORM
637.00

CONCOURSE
637.00

ENTRANCE LEVEL
635.25

possible link from
mezzanine to platform
at level 639.79

Carrier for 120+1 passengers

Escape Route only

Public accessible space

Private space

(accessible only by Cairngorm Chairlift Company personnel)

Public and Private
space definition
CAIRNGORM FUNICULAR

This drawing to be read
in conjunction with
1489/B/P03

BOTTOM STATION
LEVEL 639.788 PLAN

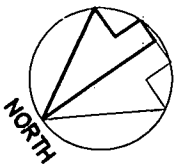


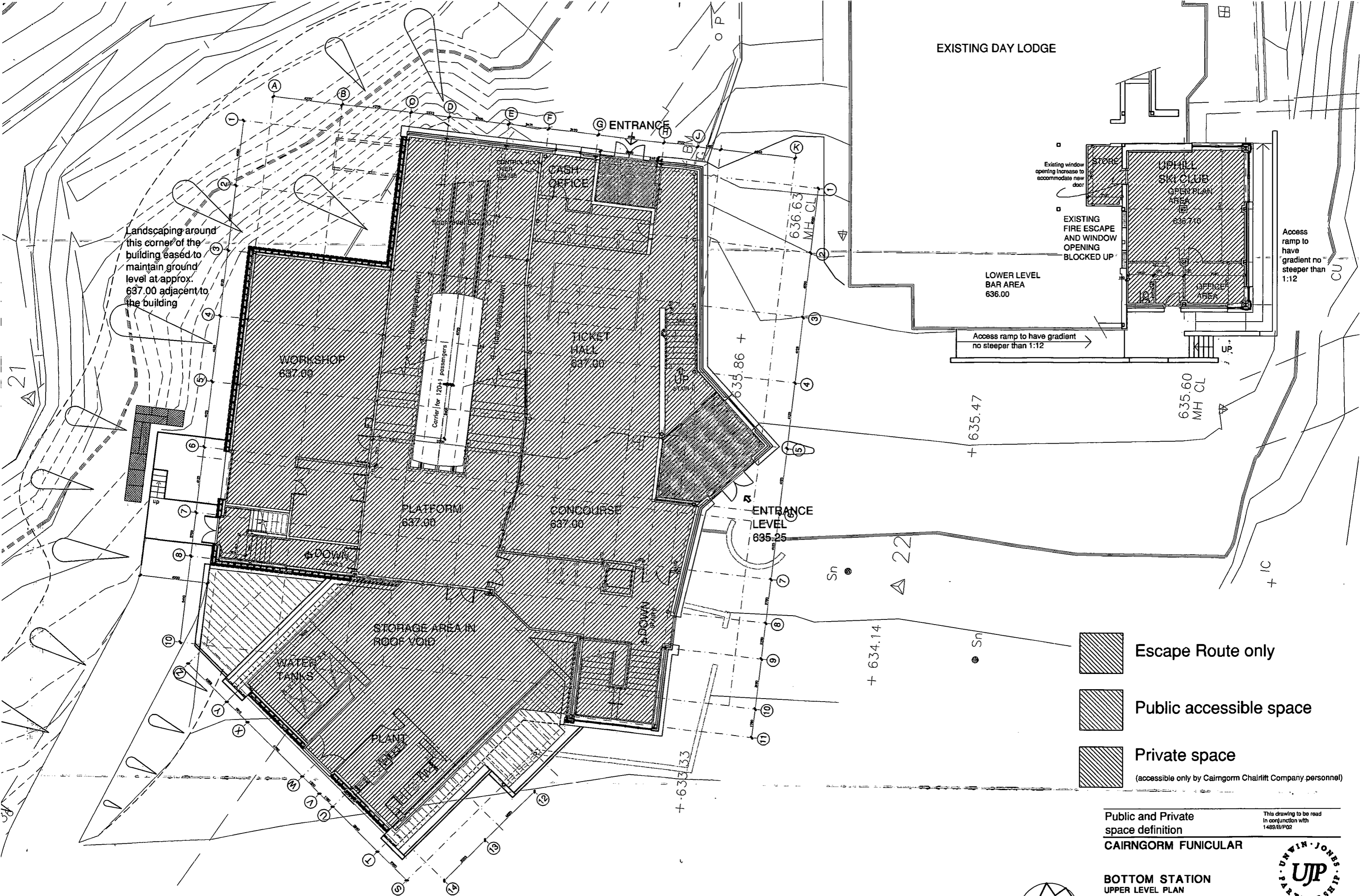
drawn : [] scale : 1:100
date : AUG 99 drawing no : 1489/B/P/03G

CHARTERED ARCHITECTS

• KILDROR LANE STUDIO • CALDWAYGATE • CARLISLE • CUMBERLAND • CA2 9JH • TEL: 01296 58225 • FAX: 01296 58465

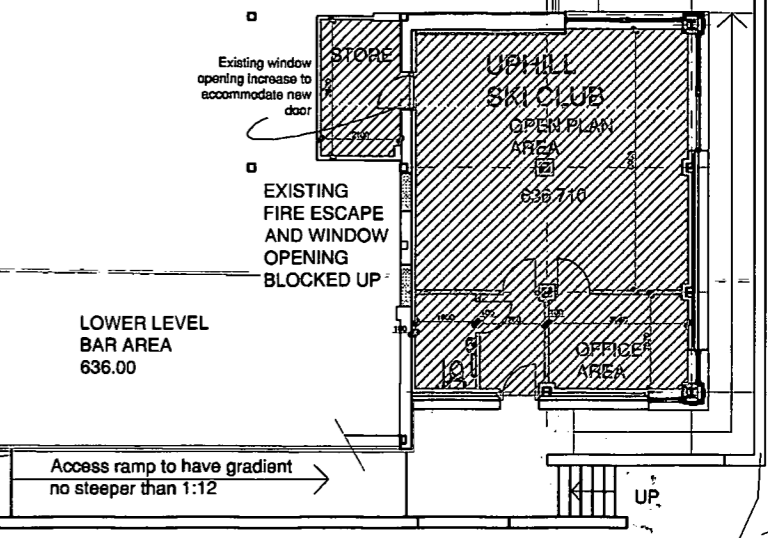
COIRE CAS CAR PARK





Landscaping around this corner of the building eased to maintain ground level at approx. 637.00 adjacent to the building

EXISTING DAY LODGE




-  Escape Route only
-  Public accessible space
-  Private space
(accessible only by Cairngorm Chairlift Company personnel)

Public and Private space definition
In conjunction with 1489/B/P02

CAIRNGORM FUNICULAR

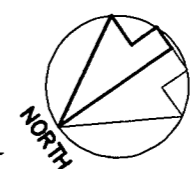
BOTTOM STATION
UPPER LEVEL PLAN
637.00

drawn :  scale : 1:100-A1 (t200-A3) CHARTERED ARCHITECTS
date : AUG 89 drawing no : 1489/B/P02J

This drawing to be read in conjunction with 1489/B/P02



COIRE CAS CAR PARK





EXISTING DAY LODGE

RETAINING WALL
SHIFTED DOWN


COIRE CAS CAR PARK

-  Public accessible space
-  Private space
(accessible only by Cairngorm Chairlift Company personnel)

Public and Private
space definition
in conjunction with
1489/B/P01

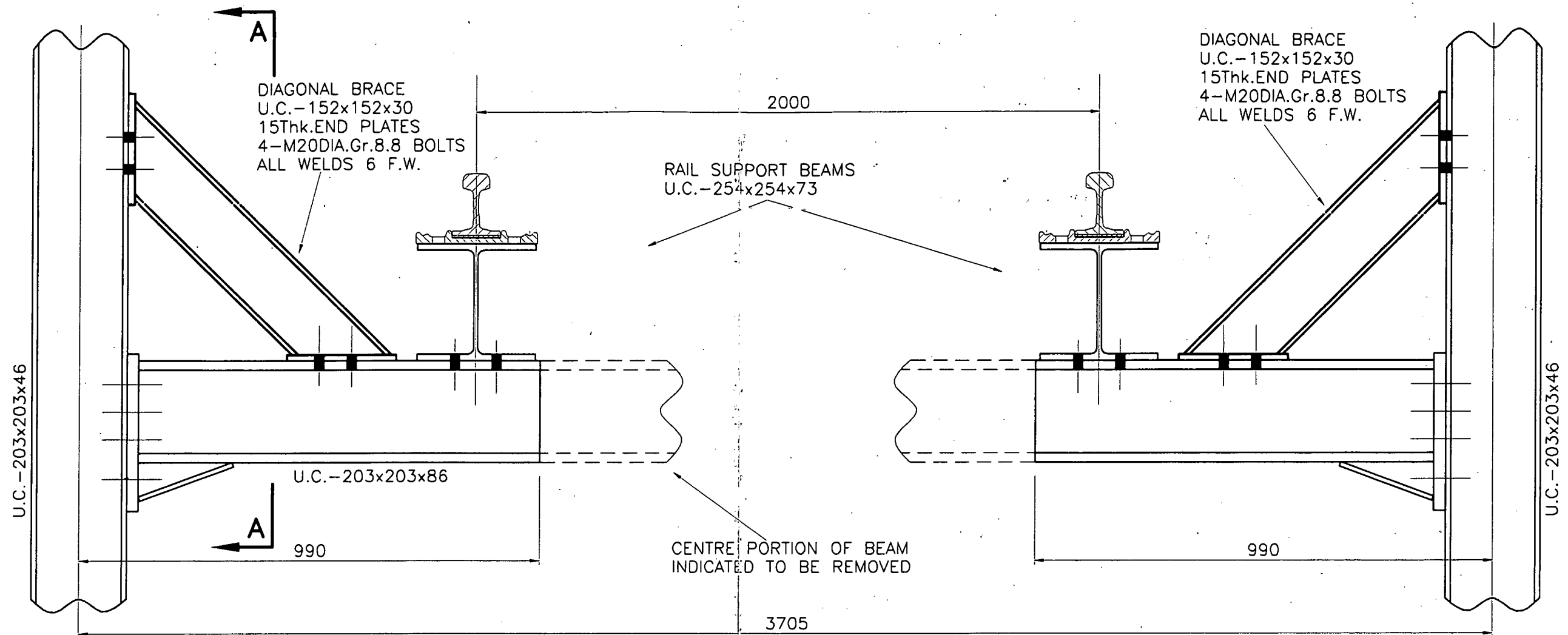
CAIRNGORM FUNICULAR

BOTTOM STATION
LOWER LEVEL PLAN
634.00

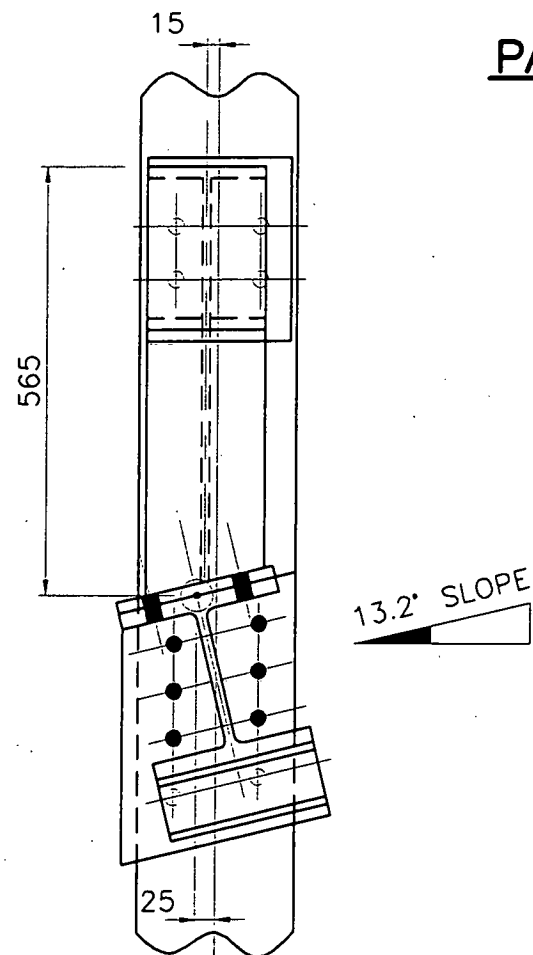
drawn :  scale : 1:100-A1 (t200-A3) **CHARTERED**
date : AUG 99 drawing no : 1489/B/P01 **ARCHITECTS**

This drawing to be read
in conjunction with
1489/B/P01





PART SECTION THROUGH LOWER TRACK SUPPORT BEAM (850mm.FROM GRID 6)



SECTION "A-A"

CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY

A.F. Cruden Associates
 Consulting Engineers
 24 Bank Street
 Inverness IV1 1QU
 Telephone 01463 719200
 Facsimile 01463 719201
 email crudens@aol.com

CAIRNGORM FUNICULAR
 BOTTOM STATION
 PART SECTION THROUGH LOWER TRACK SUPPORT BEAM
 (850mm.FROM GRID LINE 6)
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JOB No.	CA 150/4
DRAWING No.	22
SCALES	1 : 10
AMENDMENT	
DRAWN BY	
DATE	25/7/00

Client:

CAIRNGORM CHAIRLIFT COMPANY

Project:
CAIRNGORM FUNICULAR

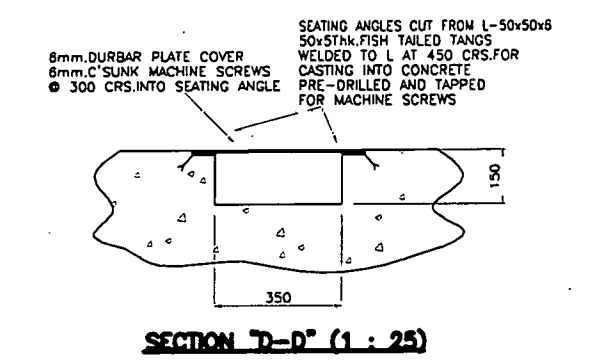
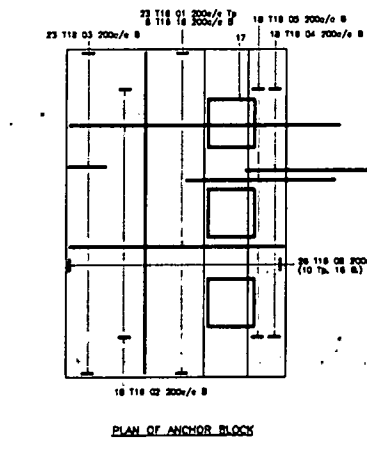
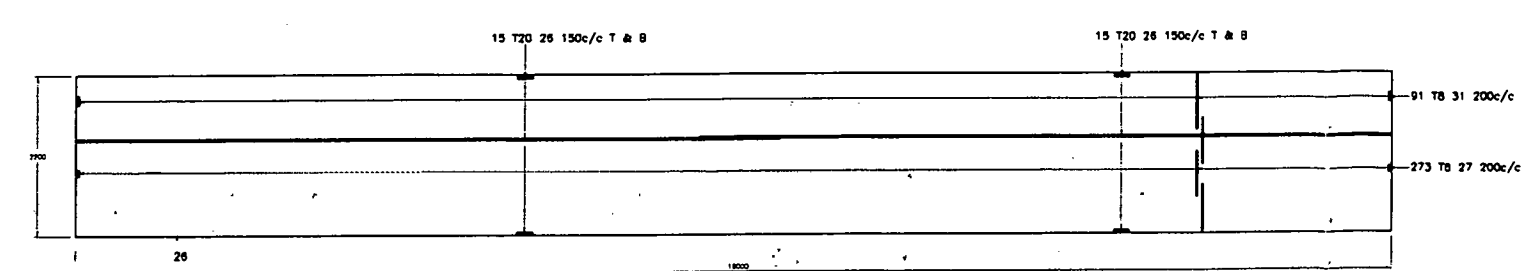
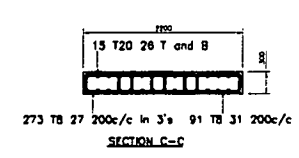
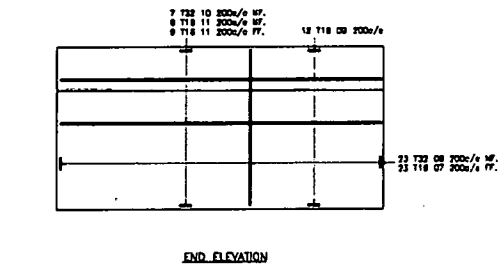
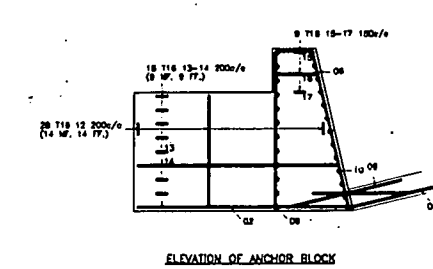
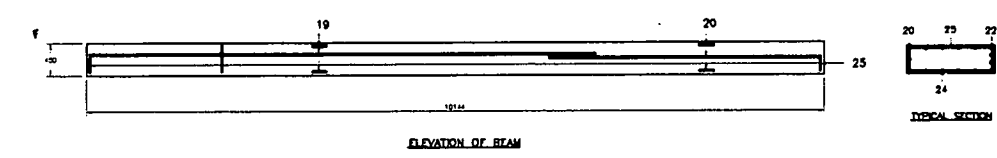
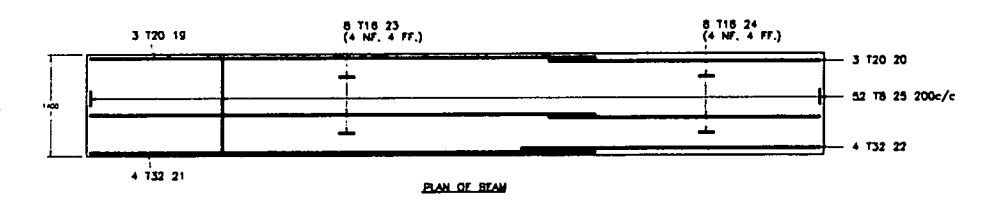
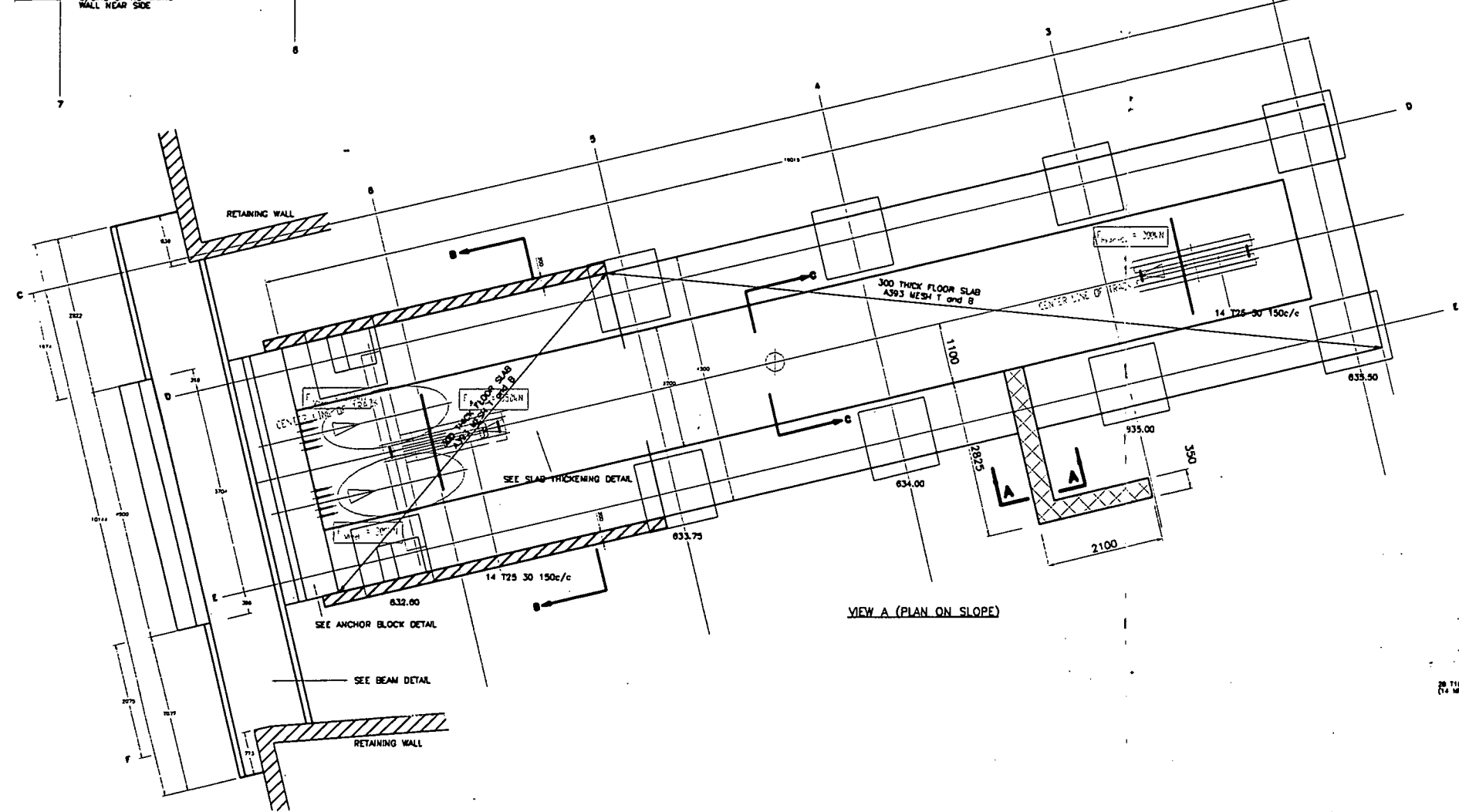
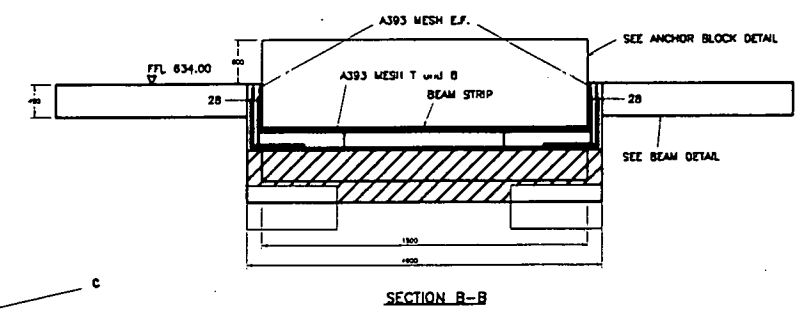
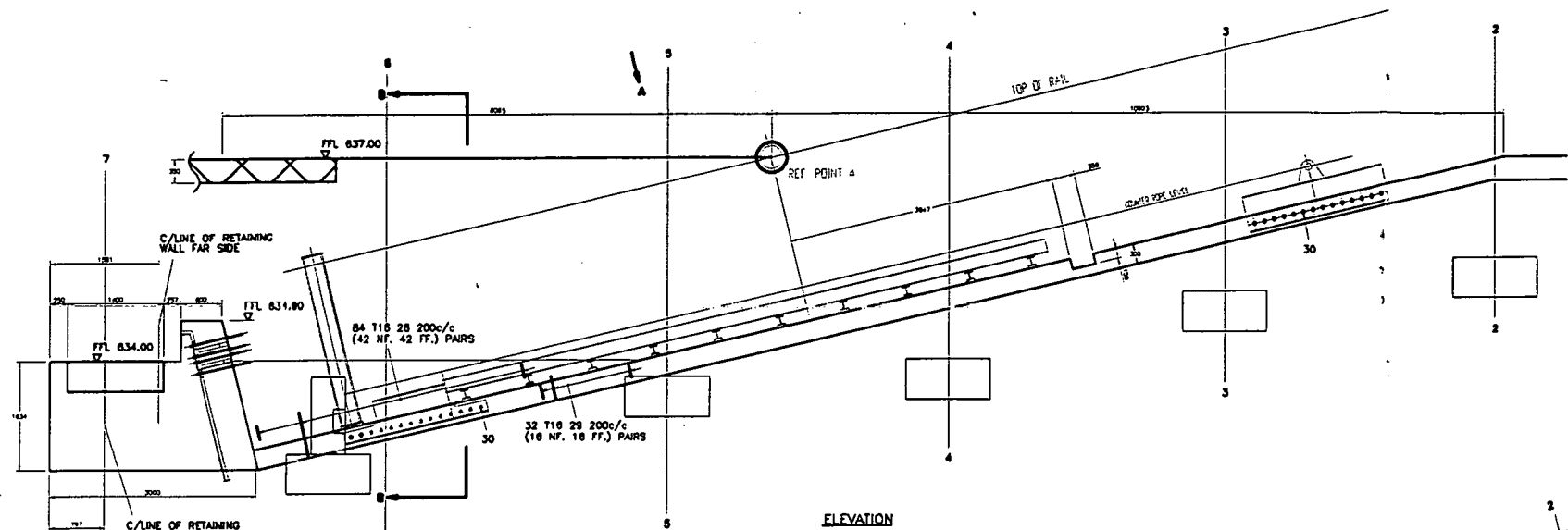
Drawing:
GENERAL ARRANGEMENT AND RC DRAWING OF ANCHOR BLOCK/BEAM. BOTTOM STN

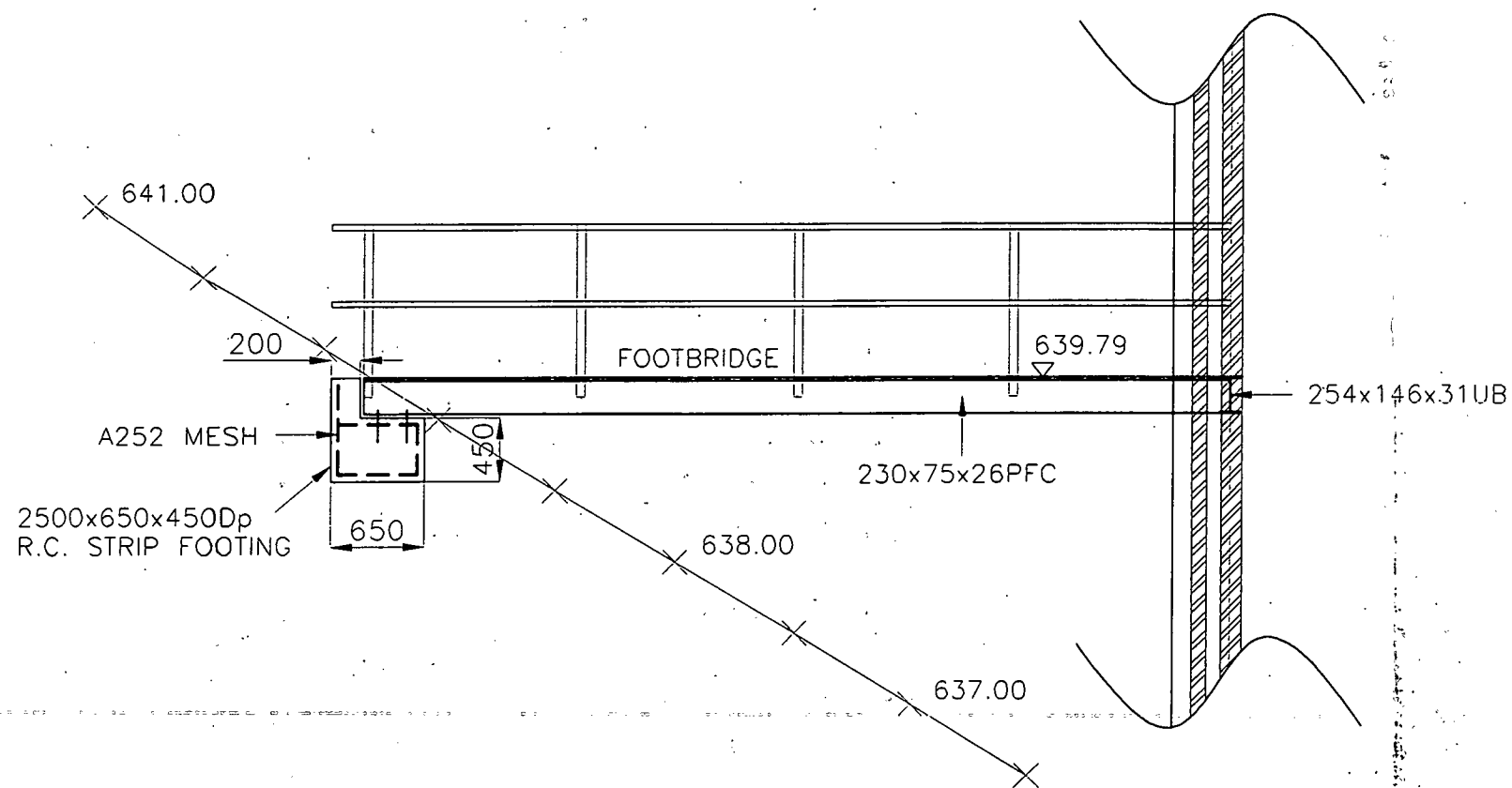
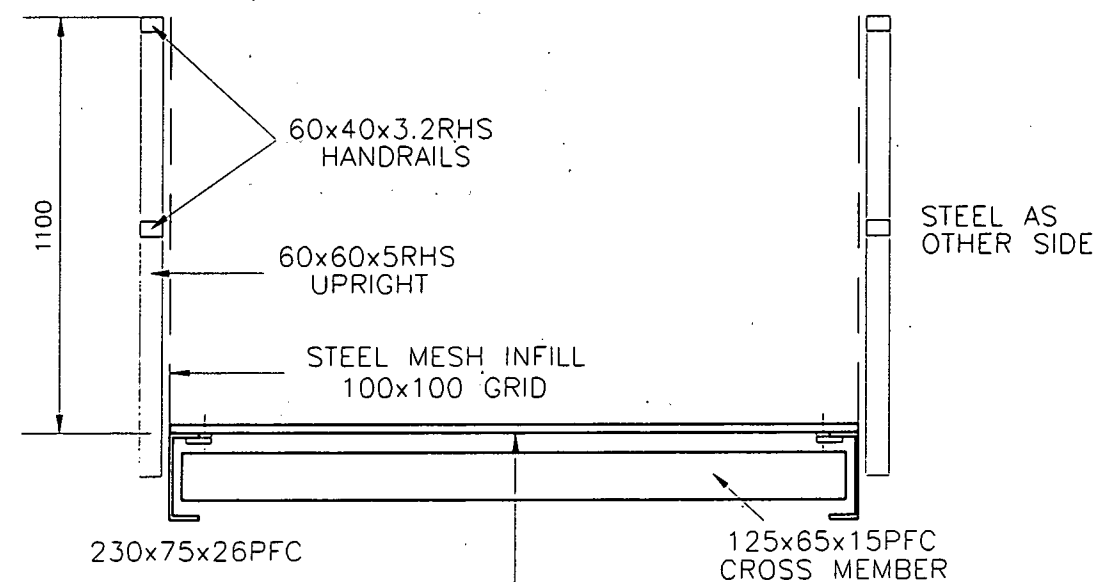
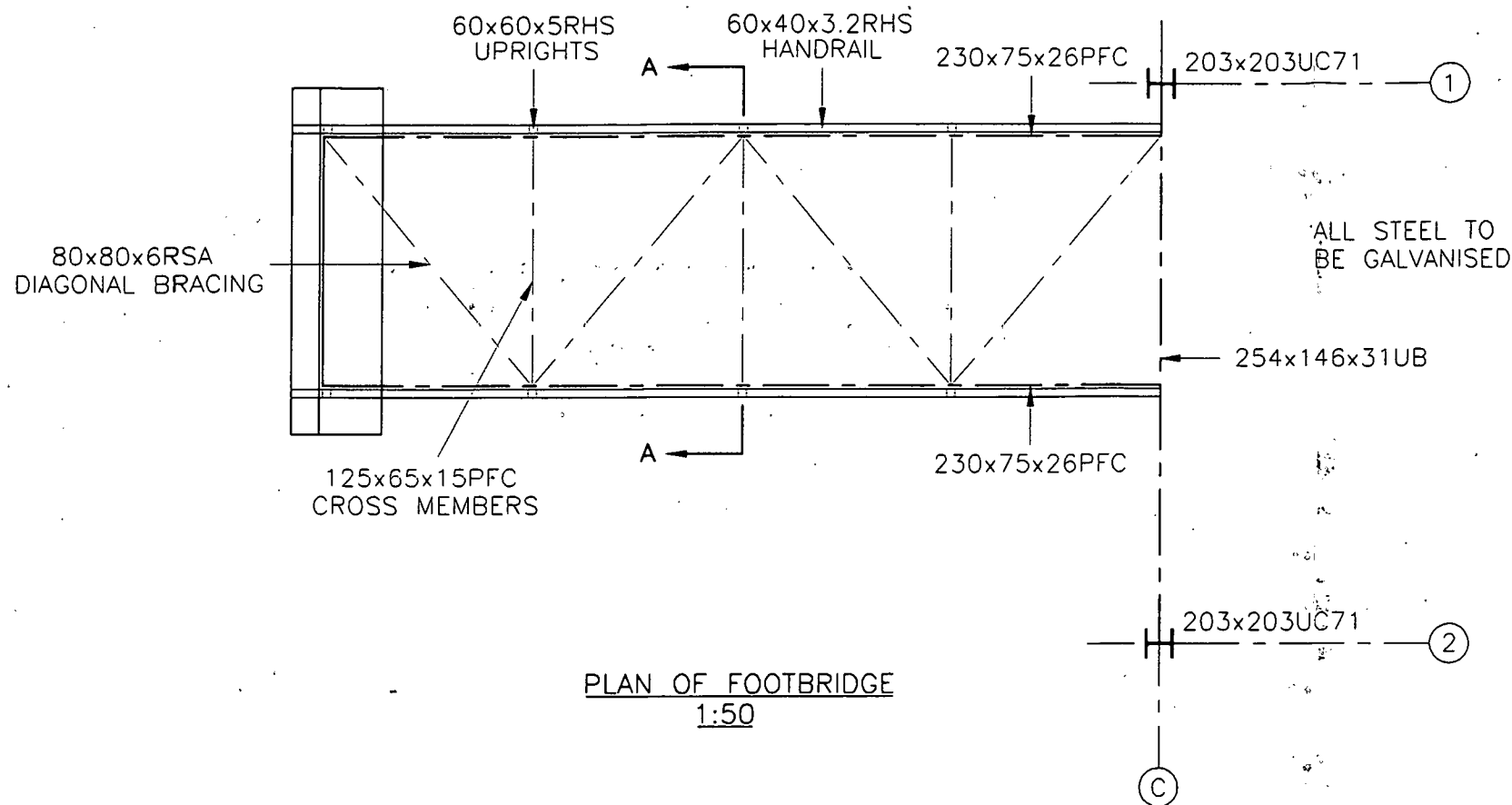
Drawing No. CA150/4/17
 Drawn By [Signature]
 Date 26/5/00
 REV. B
 Scale 1:50

Revisions:

Revisions	Date	By
A	1/6/00	[Signature]
B	20/7/00	[Signature]

Setting Out dimensions relative to existing grid lines added.
 Width of floor thickening revised and pipe duct added.





A.F. Cruden Associates
Consulting Engineers
24 Bank Street
Inverness IV1 1QU
Telephone 01463 719200
Facsimile 01463 719201
email crudens@aol.com

CAIRNGORM CHAIRLIFT COMPANY
CAIRNGORM FUNICULAR
DAYLODGE FOOTBRIDGE DETAILS

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JOB No.	CA150
DRAWING No.	4/15
SCALES	AS SHOWN
AMENDMENT	
DRAWN BY	
DATE	2/3/00

A.F. Cruden Associates
Consulting Engineers
 24 Bank Street
 Inverness IV1 1QU
 Tel: 01483 719200
 Fax: 01483 719201
 email: crudens@aol.com

Client:
CAIRNGORM CHAIRLIFT COMPANY

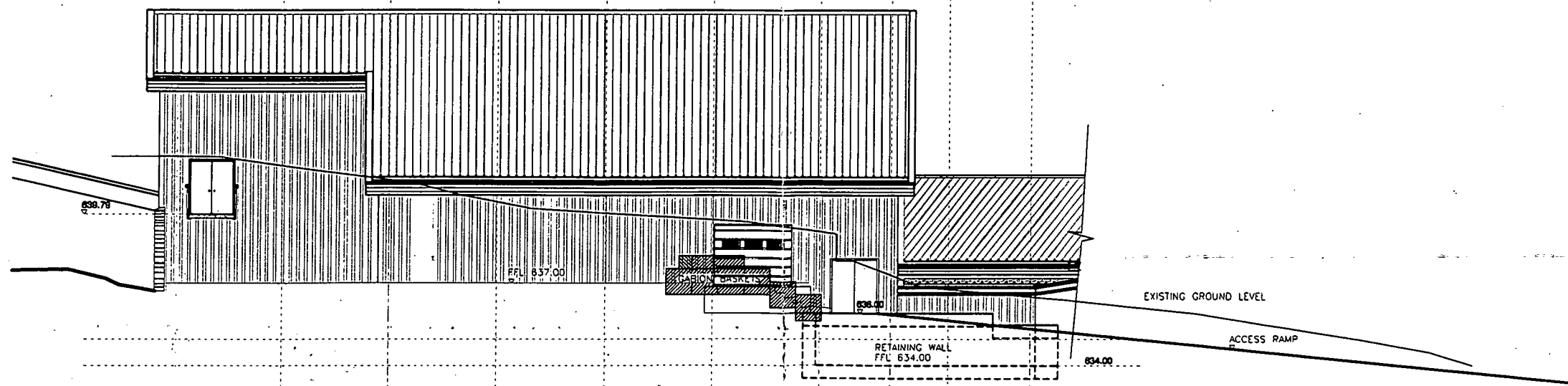
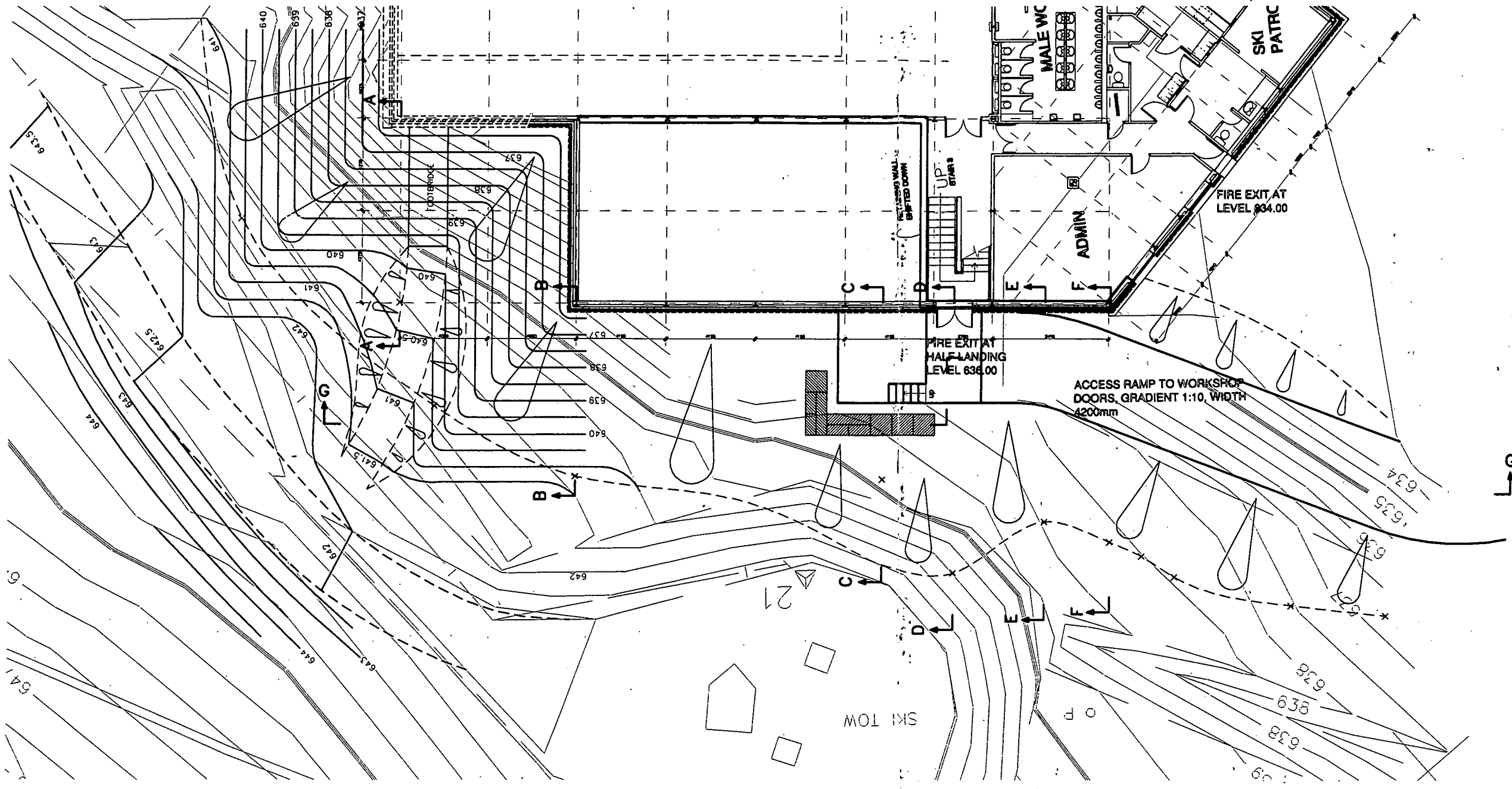
Project:
CAIRNGORM FUNICULAR

Drawing:
NORTH ELEVATION AND PLAN OF ACCESS RAMP AT THE BOTTOM STATION

Drawing No. CA150/4/11
 Date 17/2/00
 Scale 1:100

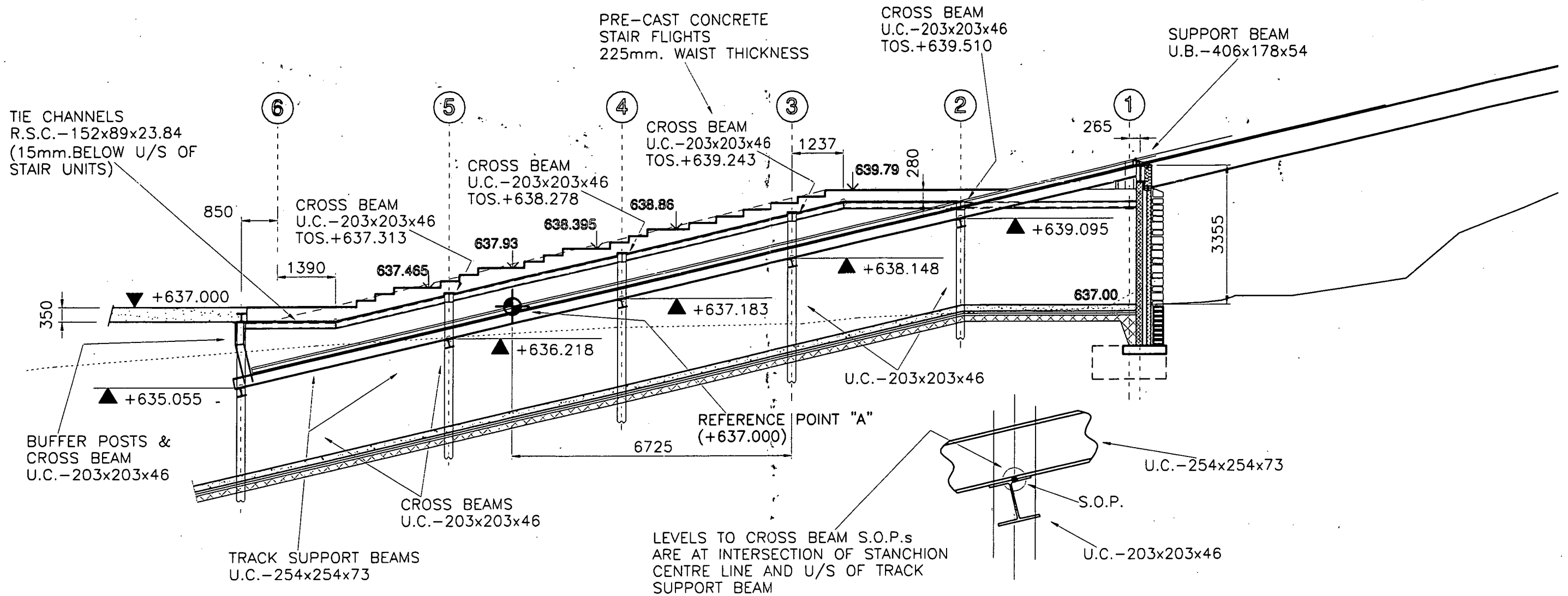
Revisions:
 A Contour amendments at Footbridge. Date 6/4/00

CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY



SECTION G-G

REDUCED FROM A1



PART SECTION THROUGH DAYLODGE AT TRACK ENTRANCE
(BETWEEN GRIDS D AND E)

CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY

A.F. Cruden Associates Consulting Engineers 24 Bank Street Inverness IV1 1QU Telephone 01463 719200 Facsimile 01463 719201 email crudens@aol.com	CAIRNGORM FUNICULAR CAIRNGORM CHAIRLIFT COMPANY	JOB No. CA 150/4 DRAWING No. 09 SCALES 1 : 100
	PART SECTION THROUGH DAYLODGE AT TRACK ENTRANCE	AMENDMENT DRAWN BY DATE 12/4/00
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Client:

CAIRNGORM CHAIRLIFT COMPANY

Project:
CAIRNGORM FUNICULAR

Drawing:
**BOTTOM STATION
 STEELWORK ELEVATIONS**

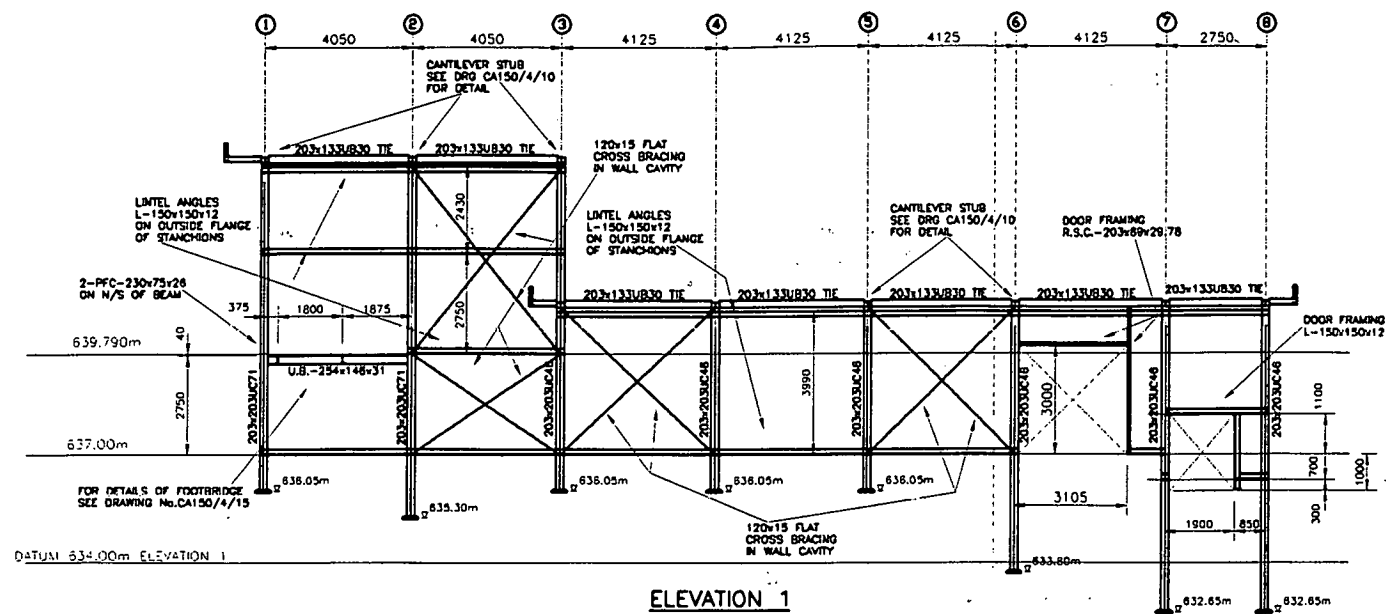
Drawing No. CA150/4/08
 Drawn By

Date 02/08/99

REV.B Scale 1:100

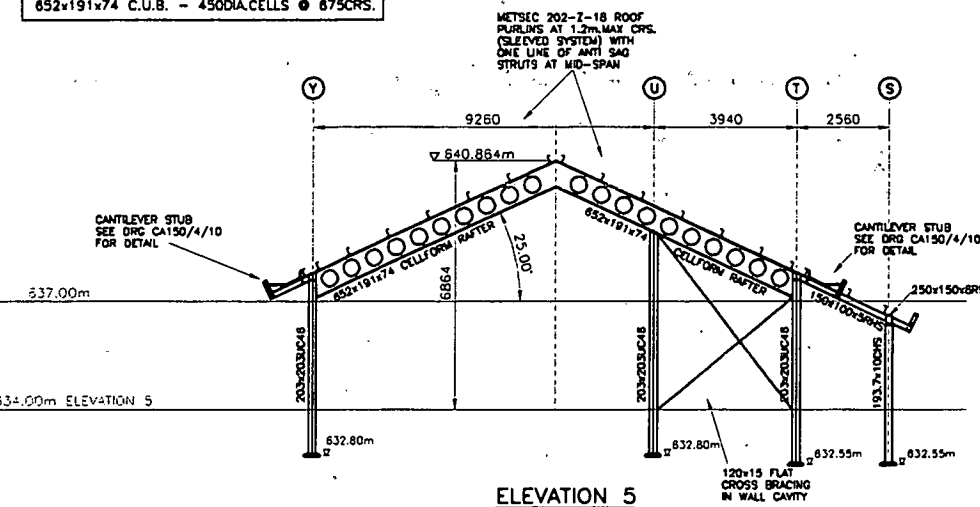
Revisions
 A GENERAL REVISIONS, DIM'S 31/3/00
 ADDED

B GENERAL REVISIONS TO ELEVATIONS "2" & "4-4" CELLFORM INFO ADDED 14/4/00

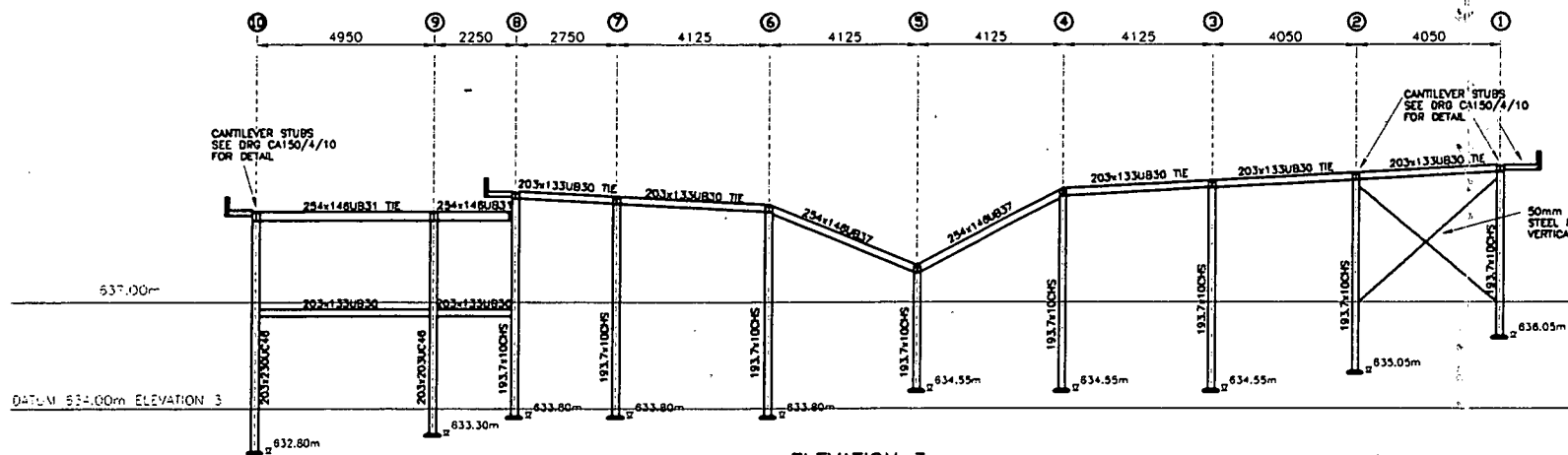


ELEVATION 1

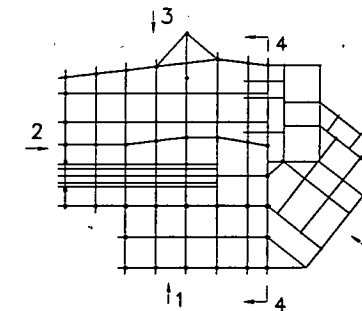
CELLFORM RAFTER INFO.
 627x191x67 C.U.B. - 400DIA.CELLS @ 600CRS.
 652x191x74 C.U.B. - 450DIA.CELLS @ 675CRS.



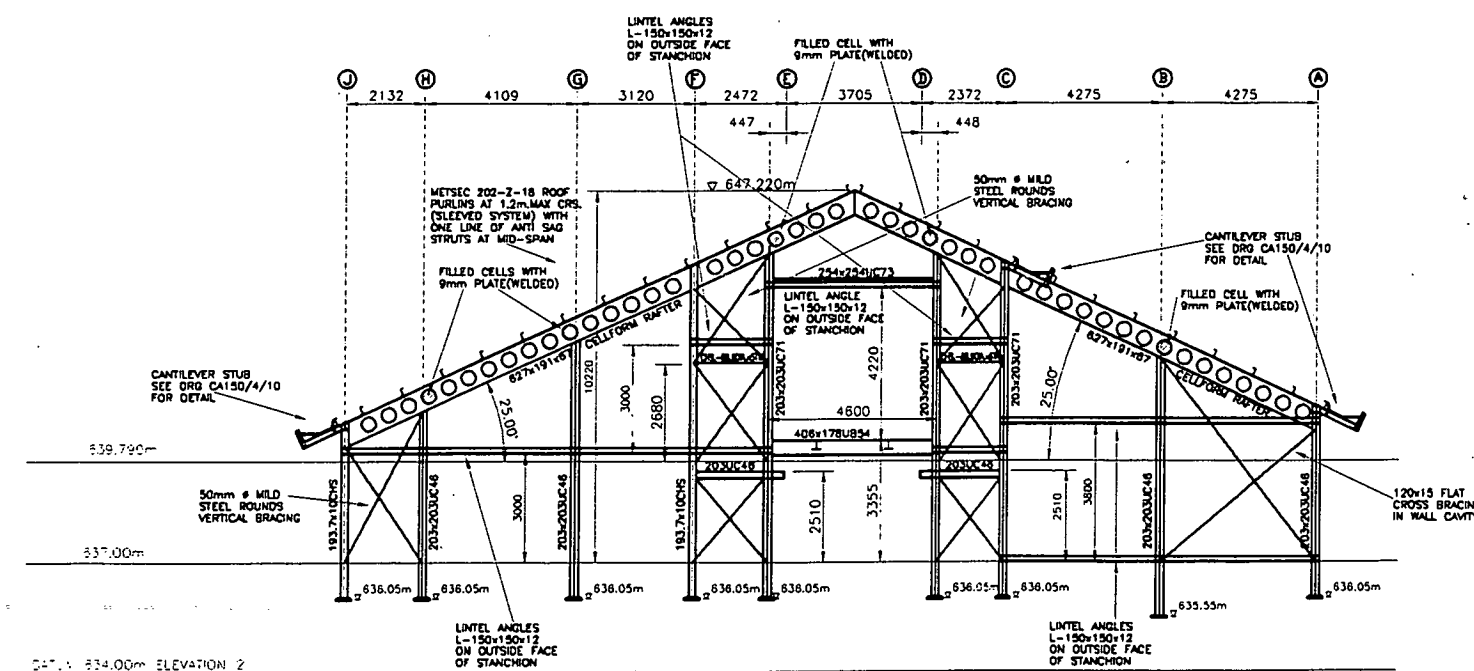
ELEVATION 5



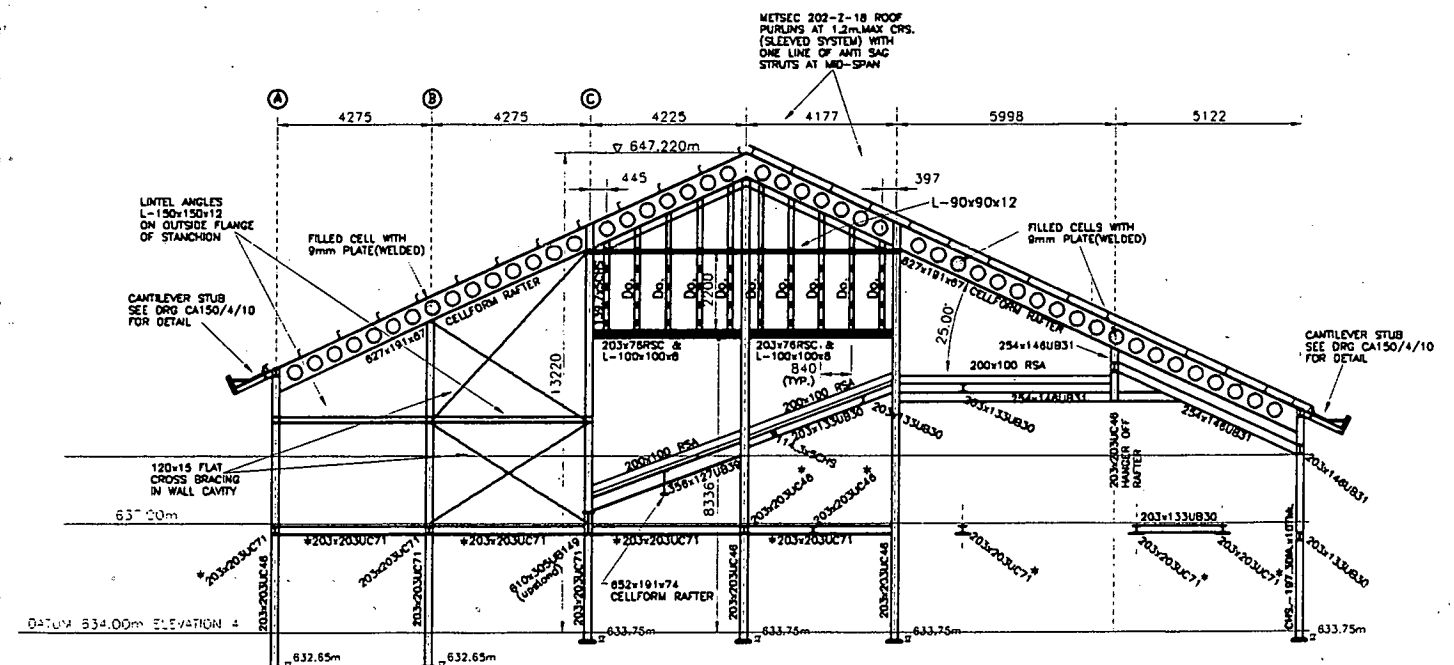
ELEVATION 3



NOTE:
 * DENOTES SLIMFLOR BEAM (SEE TABLE ON DRG CA150/4/05 FOR BEAM CONSTRUCTION)
 INNER LEAF OF ALL EXTERNAL BLOCKWORK WALLS TO BE REINFORCED WITH BRC BF45 (STAINLESS STEEL) OR EQUAL.
 BLOCKWORK TIED TO COLUMNS WITH WALL-TIES @ 225mm VERTICAL CENTRES SHOT-FIRED TO STEEL
 ALL: BASEPLATE LEVELS TO TOP SIDE OF PLATE
 FOR DETAIL OF CANTILEVER STUB EAVES FRAMING REFER TO DRG. CA150/4/10



ELEVATION 2



ELEVATION 4-4

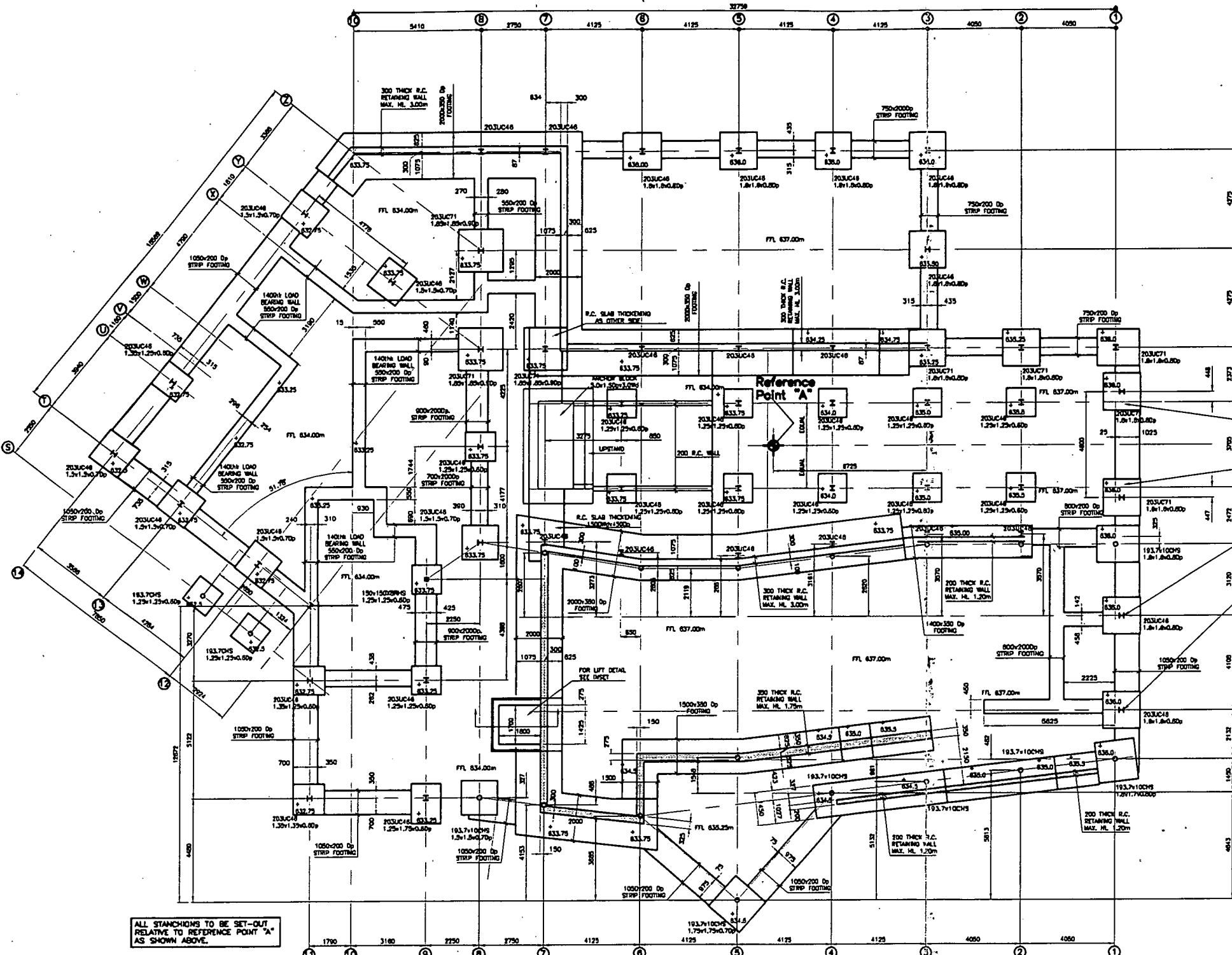
REDUCED FROM A1

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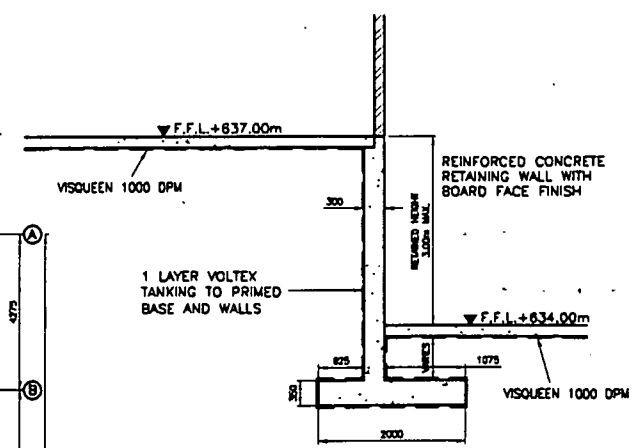
Revisions	Date	By
A	10/8/99	S.A.O.
B	28/1/00	S.A.O.
C	4/4/00	S.A.O.
D	14/4/00	S.A.O.

Retaining wall amended.
 Column position & orientation revised.
 Slab & foundation levels altered.
 Load bearing blockwork walls added.
 Strip footing amendments.
 Column amendments.
 Base pods added.
 Retaining wall amendments.
 Grid references added and grid lines d, e and h re-positioned.
 Columns repositioned on grid line between D & F.
 Columns repositioned on grid line.
 Setout dim's added.

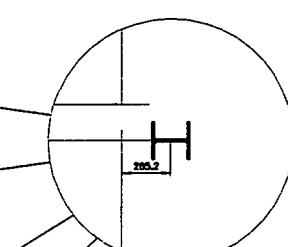


ALL STATIONINGS TO BE SET-OUT RELATIVE TO REFERENCE POINT 'A' AS SHOWN ABOVE.

FOUNDATION PLAN 1 : 100

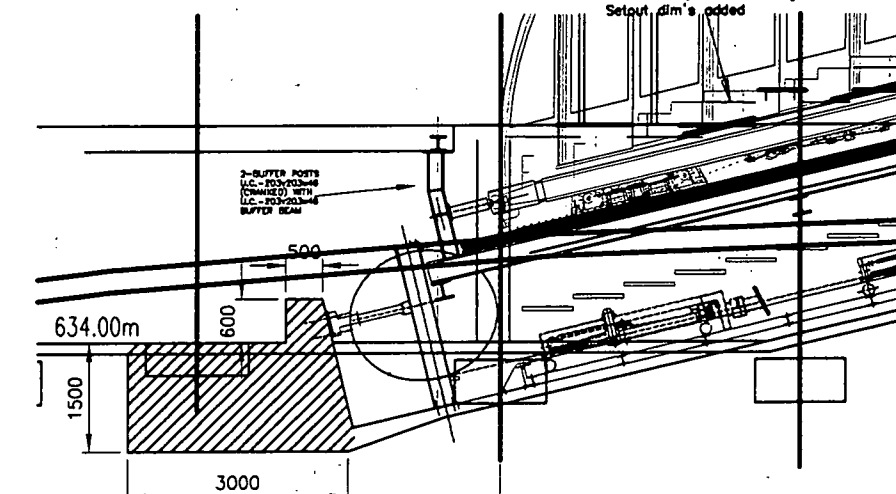


REINFORCED CONCRETE WALL DETAIL 1 : 100



CONTRACT ISSUE FOR CONSTRUCTION FOR INFORMATION ONLY

E DIMENSIONS ADDED TO WALLS/FOUNDATIONS 27/4/00 S.A.O.
 F LIFT PIT DEPTH INCREASED 27/4/00 S.A.O.



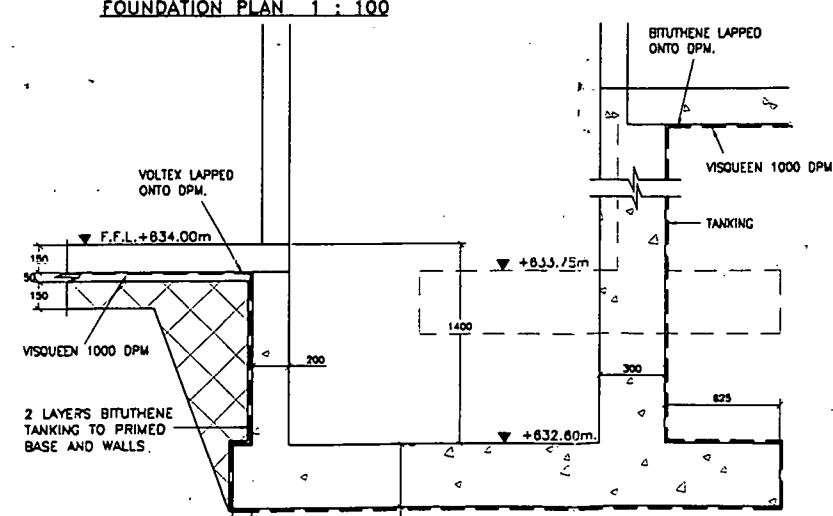
ANCHOR BLOCK CROSS SECTION SCALE: 1:50

GENERAL NOTES

- This drawing and the following notes to be read in conjunction with:
 - Engineer's drawings and specifications.
 - Architect's drawings.
 - Services Engineer's drawings.
- Main contractor to be responsible for checking all site dimensions.
- Filling ground foundations shall be executed in layers not exceeding 250mm in thickness. Well consolidated. Fill material shall be clean granular ballast and must be approved by the Engineer.
- Hardcore shall be good clean stone or ballast broken before placing to pass 75mm ring, and free from all rubbish.
- Foundation sizes are designed on the basis of a safe bearing capacity of 150kN/sq.m. This must be confirmed before construction commences. Soft spots below the foundations are to be removed and made up in lean mix concrete. Soft spots below the floor slab to be upfilled as specified in 3.
- Concrete to have a minimum crushing strength of 30N/sq.mm. at 28 days. Maximum size of aggregate to be 20mm. Ordinary Portland cement to be used.
- No admixtures to be used.
- Aggregate for structural concrete to have a drying shrinkage not exceeding 0.05%.
- Contractors source of aggregate to be approved by Engineer.
- Cover to reinforcement to be 40mm.
- Reinforcement to be in accordance with BS 4449. Mesh fabric to be in accordance with BS4483.
- All bolts to be high yield unless otherwise noted on drawings.
- The location of construction and contraction joints to be agreed with the Engineer. Maximum bay length to be 8m.
- All workmanship to be in accordance with the relevant Clauses in the Codes of Practice and British Standards:
 - Steelwork - BS 5950 Part 2 1985
 - Concrete - BS 8110 Part 1 1985
 - Timber - BS 5288 Part 2 1984
- Notation:
 - A.B.R. - Alternate Bars Reversed
 - A.B.S. - Alternate Bars Staggered
 - B. - Bottom
 - E.F. - Each Face
 - F.F. - Far Face
 - N.F. - Near Face
 - R. - Mid Steel
 - T. - High Yield Steel
 - TP. - Top
- Brickwork and blockwork to have a basic crushing strength of 7N/sq.mm.
- Mortar to be 1:3 cement:sand plus approved plasticiser.
- Wall control joints to be at 6m max or as otherwise noted on plans.
- All strip foundations are to have A252 mesh.

NEW STEELWORK

- Structural Steel Grades:
 - Hot Rolled Hollow Sections EN 10210 S 275 J2
 - All Other Hot Rolled Sections EN 10113 S 275 JR
- All steelwork connections and design to be in accordance with BS 5950 Part 1 1990.
- All bolts to be cadmium plated I.S.O. bolts grade 4.6 to BS 4190 or 8.8 to BS 3692 U.O.N.
- All welds to be 8mm fillet weld U.O.N.
- Details of all temporary bracings during various stages of construction to be submitted to the Engineer for approval.
- Steelwork to be grit blast cleaned to BS 7079 Part A1, preparation grade SA 2 1/2.
- Within 2 hours of blasting, apply twin pack epoxy zinc rich primer to minimum D.F.T. of 20 microns.
- Prior to delivery to site, apply twin pack epoxy, zinc rich, high build primer to minimum D.F.T. of 75 microns.
- After fabrication, welds and damaged areas to be thoroughly wire brushed, scraped and degreased and touched up with the high build primer.
- All dimensions marked * to be confirmed on site prior to fabrication of steelwork.



LIFT PIT DETAIL/ RETAINING WALL 1 : 20

REDUCED FROM A1