

REFERENCE		STRUCTURE			FRAME								DOOR LEAF						IRONMONGERY					NOTES					
DOOR NO.	LOCATION	STRUCTURAL OPENING			WALL TYPE	LINTOL	FRAME SIZE	FRAME TYPE	FRAME FINISH	ARCHITRAVE TYPE	ARCHITRAVE FINISH	THRESHOLD TYPE	THRESHOLD FINISH	DOOR TYPE	DOOR LEAF SIZES				DOOR FINISH	FIRE RESISTANCE	SMOKE SEALS	VISION PANEL	IRONMONGERY (pack type)	KEY TYPE	SIGNAGE (pack type)	NOTES	N x W x H x L LINTEL SIZE		
		width	height	thick											leaf 1	leaf 2	height	thkns											
D1	MAIN ENTRANCE 1092	2000	2250	650	WT1	LT1&2	FR1	TrSW	L	AT1	L	T1	SAA	DT1	950	950	2190	63	L			VP1			FE	FIRE EXIT	1LT1-2450	2LT3-2450	
D2	MAIN ENTRANCE	2000	2250	650	WT1	LT1&2	FR1	TrSW	L	AT1	L	1	SAA	DT1	950	950	2190	63	L			VP1			FE	FIRE EXIT	1LT1-2450	2LT3-2450	
D3	FIRE EXIT 1092	1350	2250	650	WT1	NIL	FR1	TrSW	L	A1	L	T1	SAA	DT1	626	626	2190	63	L			VP1			FE	FIRE EXIT		NIL	
D4	KASSBOHRER	4620	2600	650	WT1	LT4	SP	ST	PPC	SP	PPC	SP	ST	DT5	4620		2800		PPC							PASS DOOR INSERT		STEEL	
D5	HOLDING AREA	1750	2100	650	WT1	LT3&5	FR1	TRSW	L	AT1	L	TH1	SAA	DT1	826	826	2040	63	L			VP1			FE	FIRE EXIT	1LT5-2050	2LT3-2050	
D6	VIEWING AREA	1750	2100	650	WT1	2/LT2	FR1	TrSW	L	AT1	L	TH1	SAA	DT1	826	826	2040	63	L			VP1			FE	FIRE EXIT		2LT2-2050	
D7	TERRACE	1090	2100	650	WT1	NIL	SP	TrSW	L	AT1	L	TH1	SAA	DT1	SP		2040	63	L			VP1			FE	FIRE EXIT	SPECIAL IN WINDOW		
D8	FIRE EXIT	1000	2100	650	WT1	LT3&5	FR1	TrSW	L	AT1	L	TH1	SAA	DT1	926		2040	63	L			VP1			FE	FIRE EXIT	1LT5-1300	2LT3-1300	
D9	STAIR FIRE EXIT	1000	2100	650	WT1	LT3&5	FR1	TrSW	L	AT1	L	TH1	SAA	DT1	926		2040	63	L			VP1			FE	FIRE EXIT	1LT5-1300	2LT3-1300	
D10	CONCOURSE	3545	2500	400	ST	ST	SP	AL	PPC	AT2	PPC	SP	SAA	DT2	905	905	2190	65	PPC			VP2			FE	FIRE EXIT special glazed		STEEL	
D11	CONCOURSE	1750	2100	150	WT5	LT4	FR2	SW	P	AT3	P	TH2	SAA	DT6	826	826	2040	63	BV	FD60	SS	VP2			FE	FIRE EXIT		150X100X2050	
D12	CONCOURSE	1000	2250	150	WT5	NIL	FR2	SW	P	AT3	P	TH2	SAA	DT6	926		2190	63	BV	FD60	SS	VP2			FE	FIRE EXIT		TIMBER STUD	
D13	CONCOURSE	1800	2250	150	WT5	NIL	SP	SP	PPC	SP	PPC	TH2	SAA	SP	1800		2250	SP	PPC	FD60	SS				FE	ROLLER SHUTTER		TIMBER STUD	
D14	CONCOURSE	1000	2250	150	WT5	NIL	FR2	SW	P	AT3	P	TH2	SAA	DT6	926		2190	63	BV	FD60	SS	VP2			FE	FIRE EXIT		TIMBER STUD	
D15	CONCOURSE	1550	2250	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	726	726	2190	63	BV	FD60	SS	VP2			FE	FIRE EXIT		150X100X1800	
D16	SKIPATROL	1750	2100	100	WT2	LT2	FR1	SW	P	AT3	P	TH2	SAA	DT6	826	826	2040	63	BV	FD60	SS	VP2						150X100X1200	
D17	SWITCHGEAR	1550	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	726	726	2040	63	BV	FD60	SS	VP2						150X100X1800	
D18	WATER TANKS	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	NIL	NIL	DT4	826		2040	63	P	FD60	SS	VP2				STORE KEPT DOOR LOCKED		150x100x1200	
D18A	CONTROL ROOM	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT4	826		2040	63	P	FD60	SS	VP2				STORE KEPT DOOR LOCKED		150x100x1200	
D19	MIDDLE STATION	1950	2100	300	WT4	2/LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	926	926	2040	48	P	FD30	SS	VP2			FE	FIRE EXIT		2X150X100X2100	
D20	SWITCH	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT7	826		2040	48	BV	FD30	SS				SW	SWITCH		100X100X1200	
D21	LOBBY 1090	1550	2100	150	WT3	ST	FR2	SW	P	AT3	P	TH2	SAA	DT6	726	726	2040	48	BV	FD30	SS	VP2			FE	SPECIAL LINTEL		STEEL	
D22	DIS TOILET	1000	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT7	926		2025	48	BV						DIS	DISABLED		100X100X1300	
D23	LIFT	1160	2225	200	WT8	LT4	SP	SP	PPC	SP	PPC	SP	SAA	SP	SP					PPC		SP					STEEL LINTEL		STEEL
D24	LIFT	1160	2225	200	WT4	2xLT1	SP	SP	PPC	SP	PPC	SP	SAA	SP	SP					PPC		SP						2X100X100X1300	
D25	RESTAURANT	1000	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	926		2040	63	BV	FD60	SS	VP2						150X100X1300	
D26	RESTAURANT	1000	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	926		2040	63	P	FD60	SS	VP2						150X100X1300	
D27	STAIR LOBBY	1000	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT6	926		2040	63	BV	FD60	SS	VP2			FE	FIRE EXIT		100X100X1300	
D28	SWITCH	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT7	826		2040	48	P	FD30	SS				SW	SWITCH		100X100X1100	
D29	KITCHEN	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT6	826		2040	48	BV	FD30	SS	VP2			KIT	KITCHEN		100X100X1200	
D30	KITCHEN	900	2100	100	WT1	LT1	FR3	SW	P	AT1	P	TH2	SAA	DT4	826		2040	48	P	FD30	SS	VP2					STORE		100X100X1200
D31	KITCHEN	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT4	826		2040	48	P	FD30	SS	VP2					STORE		100X100X1200
D32	KITCHEN STORE	900	2100	100	SP	nil	SP					SP	SAA	SP	826		2040	40									BY SPECIALIST		
D33	KITCHEN STORE	900	2100	100	SP	nil	SP	SP				SP	SAA	SP	826		2040	40	SP								BY SPECIALIST		
D34	KITCHEN	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT6	826		2040	48	BV	FD30	SS	VP2						100X100X1200	
D35	KITCHEN	900	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT6	826		2040	48	BV	FD30	SS	VP2						100X100X1200	
D36	STORE	900	2100	200	WT8	2/LT1	FR3	SW	P	AT2	P	TH2	SAA	DT7	826		2040	63	BV	FD60	SS				ST	STORE		2LT1-1200	
D36A	OMITTED																												
D37	MALE TOILET	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	826		2025	48	BV						M			150X100X1200	
D38	MALE CLEANER	800	2100	100	WT2	LT1	FR3	SW	P	AT3	P	TH2	SAA	DT7	726		2025	48	BV									100X100X1100	
D39	TOILET CUBICLES 1&2	600	1950	22	SP		SP	SP	L					SP	620		1800	22	L								VENESTA TOILET CUBICLES		

Turner & Townsend
Project Management
03 JAN 2001
REF No. PM1006
COPY TO
REPLIED
FILE

For details of all door types and specifications please refer to preliminary key to door schedule

* Height to be confirmed by funicular manufacturer once appointed

NB NO HARDWOOD THRESHOLDS REQUIRED TO INTERNAL DOORSETS
15MM VENTILATION STRIP REQUIRED UNDER CLEANERS STORES AND TOILET DOORS
DOORS, D22, D37, D38, D40, D41, D49, D50, D63.

Construction

rev L. 18.12.00. DP. Kassbohrer amended to 2600
rev K. 07.12.00. DP. AMENDED DOORS
rev J. 05.12.00. DP. AMENDED DOORS D16, D19, D8, D4, LIFT DOORS BY KONE,
Omit MR doors, ASH for Okhume
REV G 15mm vent slits, no hw thresholds,
door thickness, MR doors to wet areas
rev F. 14.07.00. DP. CONSTRUCTION ISSUE.
rev E D4, with man pass insert 07.03.00
rev D D1, 2, 4, 16, 17, 18, 21, 28.02.00
rev C Post tender amendments 22.02.00
rev B omit FD30S, add FD60S

CAIRNGORM FUNICULAR
PTARMIGAN

DOOR SCHEDULE
SHEET 1 OF 2
CONSTRUCTION

drawn: scale: CHARTERED ARCHITECTS

date: SEPT 89 drawing no: 1489/PT/DOOR/01L

BRIDGES LANE STUDIO - CALDWELL - CARLUKE - CUMBERNAULD - GLENGARTNEY - TEL 0225 22666 - FAX 0225 24400



DOOR SCHEDULE - (SHEET 2 of 2)

REFERENCE		STRUCTURE			FRAME								DOOR LEAF				IRONMONGERY					NOTES	N x W x H x L						
DOOR NO.	LOCATION	STRUCTURAL OPENING			WALL TYPE	LINTOL	FRAME SIZE	FRAME TYPE	FRAME FINISH	ARCHITRAVE TYPE	ARCHITRAVE FINISH	THRESHOLD TYPE	THRESHOLD FINISH	DOOR TYPE	DOOR LEAF SIZES				DOOR FINISH	FIRE RESISTANCE	SMOKE SEALS	VISION PANEL	IRONMONGERY (pack type)	KEY TYPE	SIGNAGE (pack type)	NOTES	LINTEL		
		width	height	thick											leaf 1	leaf 2	height	thkns											
D40	MALE STAFF TOILET DOOR	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	826		2025	48	BV							M	TOILET LOCK	150X100X1200	
D41	FEMALE STAFF TOILET	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	826		2025	48	BV							F	TOILET LOCK	150X100X1200	
D42	PLANT ROOM	900	2100	300	WT9	2LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	826		2040	63	BV	FD60	SS	VP2				FE	FIRE EXIT	2x150x100x1200	
D43	OMITTED																												
D44	SUBSTATION	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	NIL		DT4	826		2040	63	P	FD60	SS	VP2				FE	FIRE EXIT	150X100X1200	
D45	KASSBOHRER	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	NIL		DT4	826		2040	63	P	FD60	SS	VP2				FE	FIRE EXIT	150X100X1200	
D46	SUB STATION	2110	2440	150	WT3	ST	FR2	SW	P	AT3	P	NIL		DT3	1015	1015	2400	63	P	FD60	SS							SPECIAL DOUBLE DOORS	SPECIAL STEEL
D46A	SUB STATION	2110	2440	150	WT3	ST	FR2	FR2	P	AT3	P	NIL2		DT3	1015	1015	2400	63	P	FD60	SS							SPECIAL DOUBLE DOORS	SPECIAL STEEL
D47	STAFF ROOM	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	826		2040	63	BV	FD60	SS	VP2			ST	STAFFROOM	150X100X1200		
D48	LOBBY	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	826		2040	63	BV	FD60	SS	VP2				FE	FIRE EXIT	150X100X1200	
D49	FEMALE TOILET	900	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	826		2025	63	BV							F	FEMALE	150X100X1200	
D50	FEMALE CLEANER	800	2100	100	WT 2	LT1	FR 3	SW	P	AT3	P	TH2	SAA	DT7	726		2025	48	P										100X100X1100
D51	7no FEM. CUBICLES	600	1950	22	SP		SP	SP	L					SP	620		1800	22	L									7no VENESTA CUBICLES	
D52	STORE 1088.65	1750	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT 6	826	826	2040	63	BV	FD60	SS1					ST	STORE FIRE DOOR KEPT LOCKED	150x100x2050	
D53	LOBBY 1087.5	1000	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	926		2040	63	BV	FD60	SS	VP2				FE	PC LINTEL ON MS BRACKET	150X100X1300	
D54	STORE 1087.5	1750	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	826	826	2040	63	BV	FD60	SS					ST	STORE FIRE DOOR KEPT LOCKED	150X100X2050	
D55	SHOP	900	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	826		2040	63	BV	FD60	SS	VP2				ST	STORE	150X100X1200	
D56	LOBBY	1000	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	926		2040	63	BV	FD60	SS	VP2				FE		150X100X1300	
D57	LOBBY	1000	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	926		2040	63	BV	FD60	SS	VP2				FE		150x100x1300	
D58	LOBBY	1000	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	926		2040	63	BV	FD60	SS	VP2				FE	PC LINTEL ON MS BRACKET	150x100x1300	
D59	LIFT 1086	1160	2225	200	WT8	2LT1	SP	SP	PPC	SP	PPC	SP	SAA	SP				SP	PPC		SP	SP						LIFT DOOR BY KONE	2x100x100x1500
D60	LIFT 1087.5	1160	2225	200	WT8	ST	SP	SP	PPC	SP	PPC	SP	SAA	SP				SP	PPC		SP	SP						LIFT DOOR BY KONE	SPECIAL STEEL
D61	SHOP LANDING	1750	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	826	826	2040	63	BV	FD60	SS	VP2				FE	FIRE EXIT	150X100X2050	
D62	STORE	1000	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	926		2040	63	BV	FD60	SS					ST	STORE	150x100x1300	
D63	DISABLED TOILET	1000	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT7	926		2025	48	BV							DIS	DISABLED SIGN SPECIAL LOCK LATCH	150x100x1300	
D64	LOBBY	1000	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 6	926		2040	63	BV	FD60	SS	VP2				FE	PC LINTEL ON MS ANGLE	150x100x1200	
D65	HOLDING AREA	1750	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT3	826	826	2040	63	BV	FD60	SS	VP2				FE	FIRE EXIT	150x100x2050	
D66	HOLDING AREA	1950	2100	300	WT4	2LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	926	926	2040	48	BV	FD30	SS	VP2				FE	FIRE EXIT	150x100x2250	
D67	HOLDING AREA	1950	2100	150	WT3	LT2	FR2	SW	P	AT3	P	TH2	SAA	DT6	926	926	2040	48	BV	FD30	SS1	VP2				FE	FIRE EXIT	150x100x2250	
D68	PLANT	900	2100	150	WT3	LT2	FR2	SW	P	AT 3	P	TH2	SAA	DT 7	826		2040	63	BV	FD60	SS					P	PLANT	150x100x1200	

For details of all door types and specifications please refer to preliminary key to door schedule

* Height to be confirmed by funicular manufacturer once appointed

NB NO HARDWOOD THRESHOLDS REQUIRED TO INTERNAL DOORSETS
 15MM VENTILATION STRIP REQUIRED UNDER CLEANERS STORES AND TOILET DOORS
 DOORS, D22, D37, D38, D40, D41, D49, D50, D63.

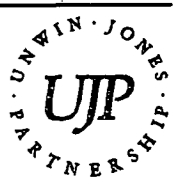
Construction

REV J 07.12.00.DP. doors amended D69 omitted
 REV H 05.12.00.DP.no MR doors,amended doors D45,D66,D67.lift doors by KONE
 REV G 15mm vent slits,no hw thresholds, door thickness,MR doors to wet areas
 rev F. 14.07.00. DP. CONSTRUCTION ISSUE.
 rev E D46&D46A amended 07.03.00
 rev D D46 amend dimensions 28.02.00
 rev C Post tender amendments 22.02.00
 rev B omit FD30S, add FD60S

CAIRNGORM FUNICULAR PTARMIGAN

DOOR SCHEDULE SHEET 2 OF 2 CONSTRUCTION

drawn : scale :
 date : SEPT 99 drawing no : 1489/PT/DOOR/02



CHARTERED ARCHITECTS

CAIRNGORM FUNICULAR - PTARMIGAN - FINISHES SCHEDULE

LOCATION	FLOOR	SKIRTING	DOORS	WALL	WINDOWS	CEILING	ARCHITRAVES	MISC. WOOD	MISC. METAL	NOTES
UPPER LEVEL										
SKIERS IN/OUT	1 & 5	5	1 & 2	2	2	2	1 & 2	1	2	fire rated duct housing
STAIR 1 AND LANDING	3	3	1	2	NIL	2	1 & 2	1	1 & 3	fire rated duct housing
CONCOURSE	3	3	2 & 6 & 8	2	NIL	2	1 & 2	1	1 & 3	
RESTAURANT	4	4	1, 6	2 & 4	1	5	1 & 4	1, 2 & 4	1 & 3	ceiling follow roof
SERVERY	4	4	6 & 9	3	-	4	1 & 4	1, 2, 4, 5	1 & 3	ceiling ht 2700
KITCHEN	2 & 5	2	4 & 6	3	-	4	1	1	3	ceiling ht 2700
REFUSE STORE	2 & 5	2	5	-	-	4	1	1	-	ceiling ht 2400
LIFT	3	NA	SPECIALIST	NIL	-	-	4	-	-	CAR SPECIFICATION BY SPECIALIST
PLATFORMS	3	3	6	NIL	2	2	1 & 2	1	1, 3 & 5	
LOBBY	3	3	6	2	-	1	1 & 2	1	3	2400 ceiling ht
DISABLED TOILET	2	2	4	2	-	3	1	1	1, 2 & 3	2400 ceiling ht.
LIFT MOTOR	6	NA	5	NIL	-	-	1	-	-	
SWITCH	6	NA	5	NIL	-	-	1	-	2	
STAIRS & LAND	3	3	6	2	-	2	1	1, 2 & 4	1 & 3	roof liner
VIEWING AREA	3	3	6	2	2	2	1 & 2	1 & 2	1 & 3	roof liner
TERRACE	SEE NOTE & 5	STONE & SLATE CILL	1	STONE PARAPET	1 & 2	-	1 & 2	-	1 & 4	BLOCK PAVERS & INSULATION TO FALLS & BAUDER
SKI PARKUL	2	2	6	2	-	1	1	-	2	2400 ceiling ht.
SWITCH 1092	6	NIL	5	NIL	-	2	1	1	2	roofliner
TANKS	6	NIL	3	NIL	-	2	3	-	-	roofliner
LOBBY	3	3	1, 5 & 6	2	-	1	1	1	-	2100 ceiling ht
CONTROL ROOM	2	2	6	NIL	3	1	-	6	-	
LOWER LEVEL										
LOBBY	3	3	6 & FE 1	2	-	3	1	1	1 & 3	2400 ceiling ht.
MALE TOILETS	2 & 5	2	4 & SPECIALS	2	-	3	1	1	2 & 3	2400 ceiling ht.
FEMALE TOILETS	2	2	4 & SPECIALS	2	-	3	1	1	2 & 3	2400 ceiling ht.
STAFF TOILETS	2 & 5	2	4	2	-	3	1	1	2 & 3	2400 ceiling ht
STAFF ROOM	2	2	5	2	-	3	1	1 & 3	2 & 3	2400 ceiling ht.
SHOP	6	NIL	6 & LIFT	NIL	-	3	1 & 4	specialist	specialist	3000 ceiling ht.
EXHIBIT	6	NIL	5 & 6	NIL	-	6	1	SEE NOTE	1, 2 & 3	FIT OUT BY SPECIALIST
STAIR & LANDING	3	3	6	2	-	3	1	1, 2 & 4	1 & 3	floor finish 2 to stairs & 3 to landings
DISABLED TOILET	2	2	4	2	-	3	1	1	1, 2 & 3	2400 ceiling ht.
HOLDING AREA	6	NIL	2 & 6 + SCREEN	NIL	2	6	1 & 2	1 & 2	1, 2 & 3	ceiling soffit of slab
STORES	6	NIL	5	NIL	-	6	1	1	2 & 3	ceiling soffit of slab
FIRE EXIT	2	2	1 & 5	NIL	-	6	1	1	1, 2 & 3	ceiling soffit of slab
PLANT ROOM	6	NIL	5	NIL	-	6	1	1	2 & 3	
SWITCH 1089	6	NIL	11	1	-	6	3	-	2 & 3	
TANKS	6	NIL	5	NIL	-	6	-	-	2 & 3	
KASSBOHRER	6	NIL	6, 7, 11	NIL	-	-	-	-	2 & 3	
ROOF PLANT	NIL	NIL	5	NIL	-	2	1	1	1 & 2	

FINISHES SCHEDULE - 1489/PT/F502

Floors

- Flow Forge 30/100 galvanised flooring with angle support by Redman Fisher, tel. 01902 880880.
- Waterproof concrete, roddable floor gully.
- Freudenberg 2mm. Noraplan 'stone', Aqualock system & latex screed. (Noraplan 'stone al' to KITCHEN) colour ref 2102 GREEN
- Freudenberg 3.5mm. Norament 'lago', Aqualock system & latex screed. colour ref. 4520 to main areas. ref 4539 to wide landings.
- Freudenberg 3.5mm. Norament 'slate', Aqualock system & latex screed. colour to be agreed
- 5.0mm dia. upvc roddable floor gullies with silt trap, grating.
- 2 coats pva concrete floor sealed.

Skirtings

- OMITTED.
- Freudenberg Noraplan 'stone' turned up wall 150mm with cove former and mastic seal.
- Freudenberg Norament 'lago' turned up wall 150mm with cove skirting former and mastic seal. MDF skirting in restaurant.
- 100mm x 25mm moulded and painted mdf to detail.
- Black or dark colour 150mm high piolite resin masonry paint.

Doors

- Swedor timber doorset prefinished external type. 15mm reveal behind stone or cladding.
- BESAM automatic SAA sliding doors and frames, prefinished.
- Internal glazed timber doors and frames, FD305 or FD605, 2 undercoat and 1 gloss. Swedor Hills or similar.
- Internal timber doors and frames plywood faced solid core. Finish 2 undercoat and 1 gloss paint.
- Ditto but FD305 or FD605
- Ditto but FD305 or FD605 and glazed vision panels.
- Nassau or Henderson overhead insulated polyester coated steel sectional doors, fitted with strengthening, threshold trimmed to prevent snow build up, electrical supply and special seal to detail.
- Specialist FD60 overhead galvanised m.s. roller shutter on fusible link in CONCOURSE.
- Roller shutter, overhead galvanised m.s., to SERVERY 3 no. by specialist.
- DELETED
- Special steel framed, louvred door with baffle.

Walls

- 7N solid dense paint quality blockwork, flush pointed primer/sealer 2 coats (clear).
- Ditto but with Piolite resin based masonry paint (colour scheme to be advised). 1 coat mist & 2 coats full.
- Ditto but with Respertex lining board on framing by kitchen fit out.
- Masonry paint on MDF and framing to restaurant columns.

Windows

- Nordan fixed light coupled units, lacquer (prefinished) treated softwood, double glazed (10-12-6) polyester coated aluminium external trims. Set in 15mm reveal behind timber cladding or stonework. Stormproof, under cill heater. Paint finished mdf cill.
- Nordan fixed light coupled units ND92, polyester coated aluminium with steel core, designed to withstand wind loading, thermal checked minimum (10-12-6) double glazing. Man safe attachments for window cleaning. Incorporate louvre panel and special baffled plenum by Engineer under cill heater. Fixed to main steel.
- SPECIAL PAINTED TIMBER FRAMED BAY WINDOW WITH GLAZED ROOF.

Ceilings

- Matt emulsion on 12.5mm moisture resistance Gypsum plasterboard, taped joints and 2 coats topcoat on MF system OR 50x100mm sw frame at 600mm centres. 1 mist and two coats emulsion
- Moogovens roofliner - milled finished aluminium.
- Armstrong suspended ceiling tile 600 x 600 x 24. Type Prima Dune with exposed grid, anti-corrosive grid, lay in tile and clips. Recessed edge detail
- 12.5mm MR plasterboard and taped joints and finish on 50x100mm sw at 600mm centres with 1 mist coat as item 1. and two coats special emulsion to kitchen and servery.
- 12.5mm MR plasterboard and finish as item 1. on 50x50mm sw fixed to underside of Z roof purlins at 600 max. centres. Roof beams finished as delivered treated 1 coat clear varnish.
- Exposed soffit of Holonib floor panel.

Architraves

- 38 x 38mm mdf 2 x rounded corners finish 2 undercoat and 1 coat gloss.
- Polyester coated aluminium edge trims and flashings by specialist.
- Polyester coated, mild steel edge trims and floor linings to door opening by specialist - curtain wall.
- Galvanised trims by lift specialist.

Miscellaneous woodwork

- Plywood pipe boxing on 50 x 50 s.w. frame at 600 centres.
- MDF wall capping and architrave cover mould - finish 2 undercoats and 1 gloss paint.
- Prefinished kitchen units and w/top.
- Painted mdf or lipped plywood on 50 x 25mm fascia or windows and between trusses.
- Kitchen servery to detail.
- Control room of painted timber frame with safety glazing.

Miscellaneous metalwork

- 50mm diameter painted galvanised mild steel handrail by local fabricator, on brackets to blockwork.
- Painted pipework on boards.
- Steelwork beams and columns. Intumescent paint to 1 hour f.r. TO EXPOSED SUPPORTING STEELWORK
- Terrace steel beam and handrails finish galvanised mild steel, 2 undercoats and 2 gloss paint.

REV.I / DP / 14.08.01 / OMIT WALL SEALER, WALL PAINT TO STATION

REV.H / DP / 13.07.01 / WALL & FLOOR FINISHES UPDATED

REV.G / DP / 10.07.01 / FLOOR FINISHES UPDATED

REV.F / DP / 23.05.01 / FREUDENBERG FLOOR FINISHES ADDED.

REV.E / DP / 27.11.00 / CEILINGS AMENDED

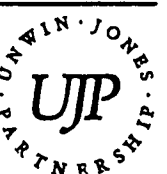
REV.D / DP / 04.07.00 / CONSTRUCTION ISSUE.

REV.C / DP / 17.01.00 / AMENDED TO OMIT ALTROSEAL ETC

REV.B / GRS / 05.10.99 / REDRAWN & AMENDED

CAIRNGORM FUNICULAR
PTARMIGAN

FINISHES SCHEDULE
SHEET 1 OF 1

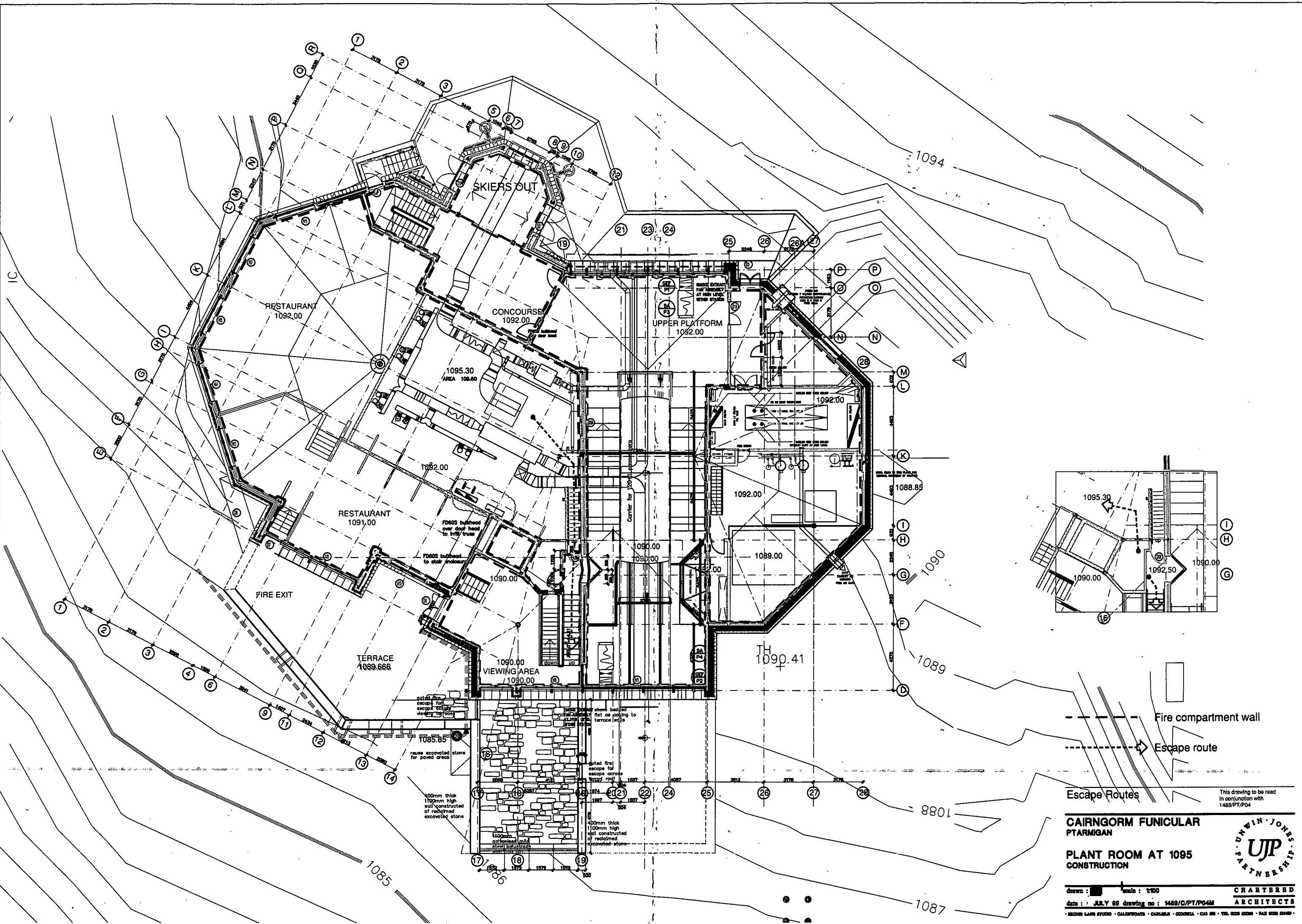


drawn : [redacted] scale : NO SCALE CHARTERED

date : OCT 99 drawing no : 1489/PT/FN/01/1 ARCHITECTS

BRIDGES LANE STUDIO • CALDWAYATE • CARLEILE • CUMBERIA • CA1 9B • TEL 0223 28205 • FAX 0223 24429

Construction



--- Fire compartment wall
 - - - - -> Escape route

Escape Routes
 This drawing to be read in conjunction with 1489/PT/P04

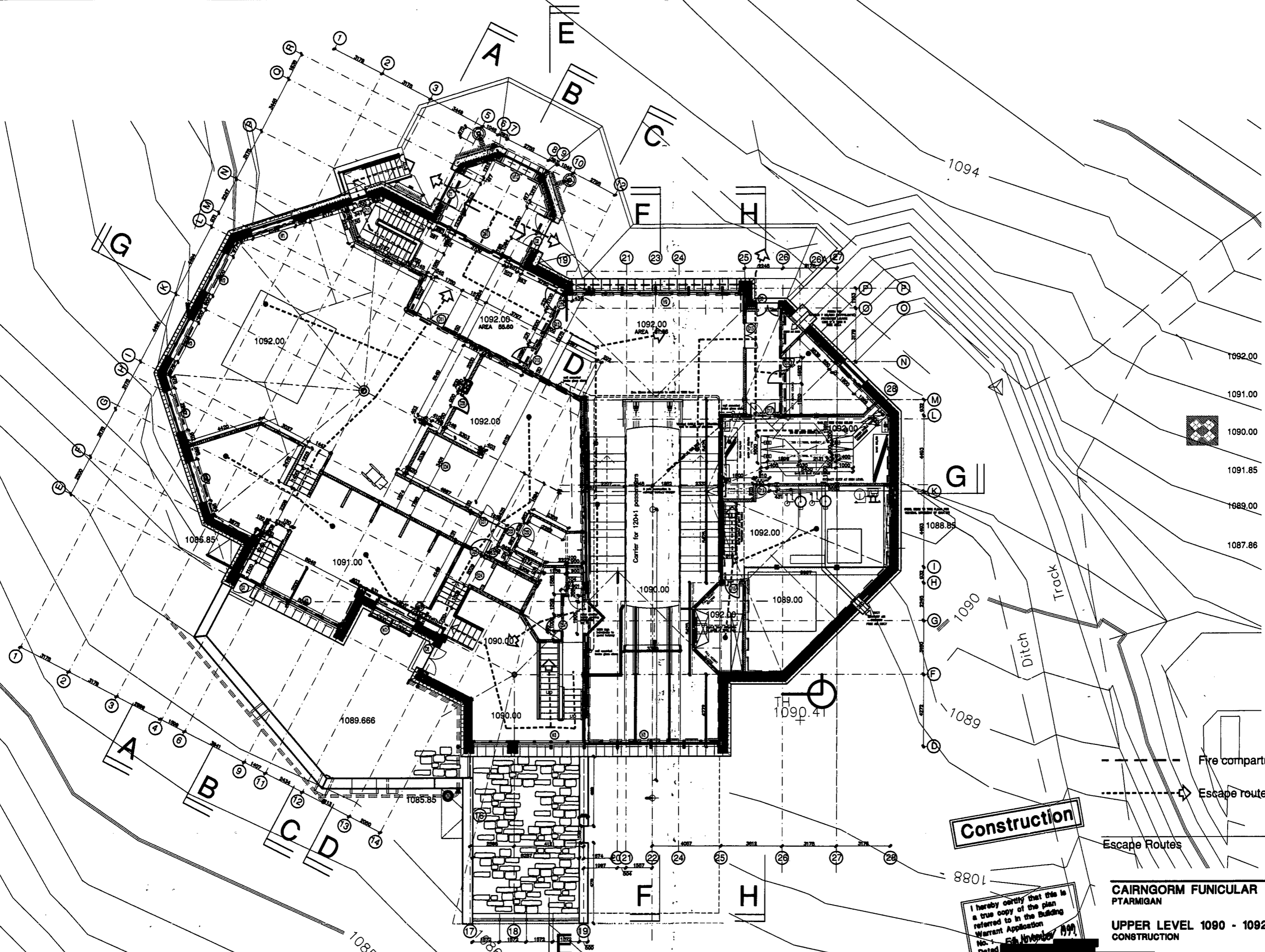
**CAIRNGORM FUNICULAR
 PTARMIGAN**

**PLANT ROOM AT 1095
 CONSTRUCTION**



drawn : [] scale : 1:100
 date : JULY 99 drawing no : 1489/C/PT/P04M
 CHARTERED ARCHITECTS
 MEDON LANE STUDIO • CALDWAY • CHARLES • GORDON • CAS 88 • TEL: 0208 8288 • FAX: 0208 8288

UPPER LEVEL 1090 - 1092



Construction

I hereby certify that this is a true copy of the plan referred to in the Building Warrant Application.
No. 54 November 1999
Signed: [Redacted]

- Fire compartment wall
- - - - -> Escape route
- Escape Routes

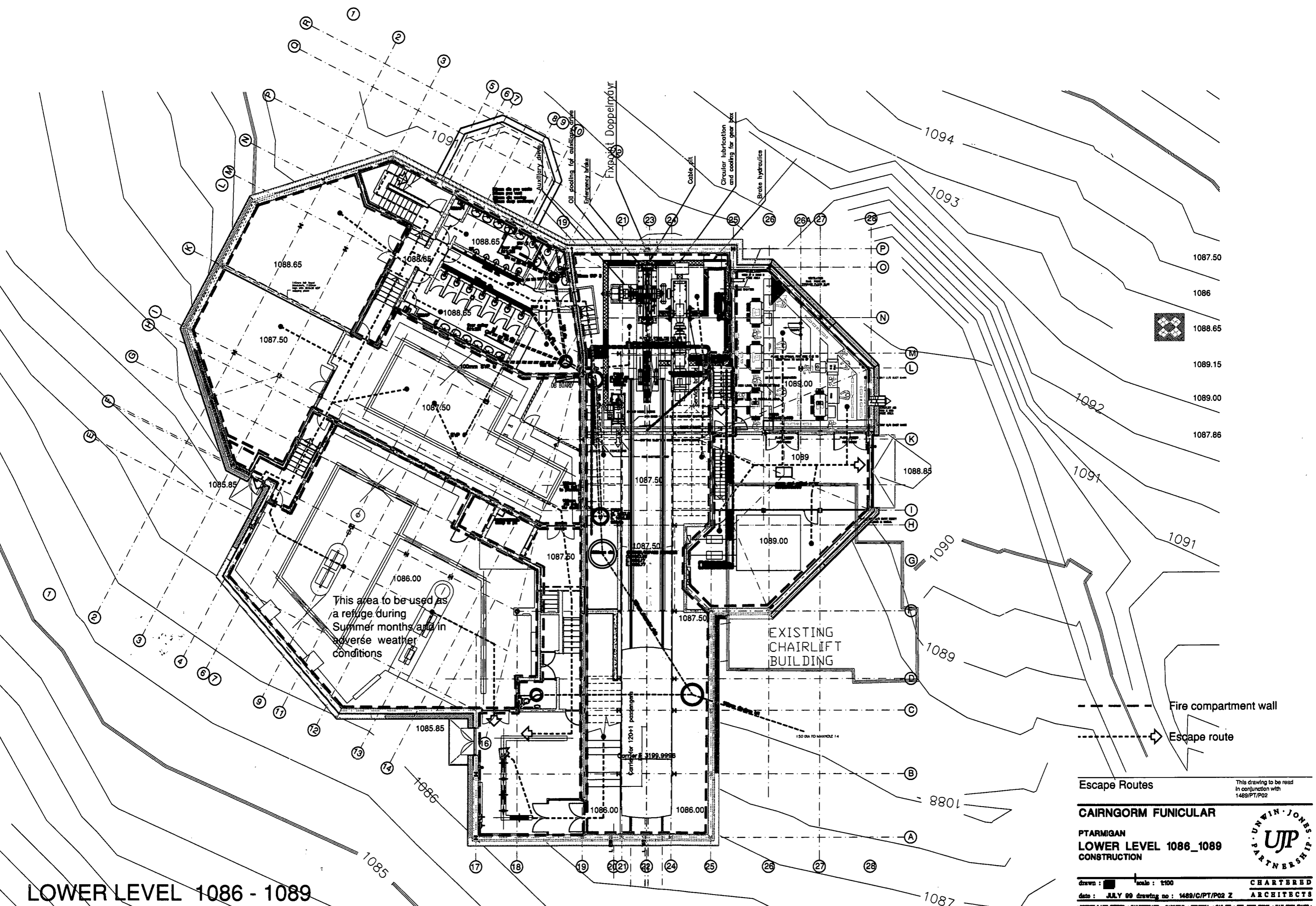
This drawing to be read in conjunction with 1489/PT/P03

**CAIRNGORM FUNICULAR
PTARMIGAN**
**UPPER LEVEL 1090 - 1092
CONSTRUCTION**



scale: 1:100
date: JULY 99-drawing no: 1489/O/PT/P03 AA
ARCHITECTS
CHARTERED ARCHITECTS
• BRIDGES • LANDSCAPE ARCHITECTURE • PLANNING • CONSULTANTS • CIVIL ENGINEERS • ELECTRICAL ENGINEERS • MECHANICAL ENGINEERS • STRUCTURAL ENGINEERS

LOWER LEVEL 1086 - 1089

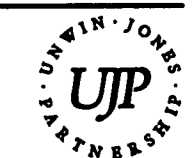


This area to be used as a refuge during Summer months and in adverse weather conditions

EXISTING CHAIRLIFT BUILDING

--- Fire compartment wall
 - - - - - Escape route

Escape Routes
 This drawing to be read in conjunction with 1489/PT/P02
CAIRNGORM FUNICULAR
 PTARMIGAN
 LOWER LEVEL 1086_1089
 CONSTRUCTION



drawn : [] scale : 1:100
 date : JULY 99 drawing no : 1489/C/PT/P02 Z
 CHARTERED ARCHITECTS
 MEDON LAKE STUDIO • CALLEDWATER • GLENMEL • GLENMEL • GLENMEL • TEL: 01833 82866 • FAX: 01833 82867

ALL C.H.S. RAFTER BRACING TO HAVE CIRCULAR PLATES ON END CONNECTIONS.

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Fax: 01463 719201
email: crudens@aol.com

FOR SECTIONS "6-6" & "7-7"
SEE DRAWING No. CA150/6-12

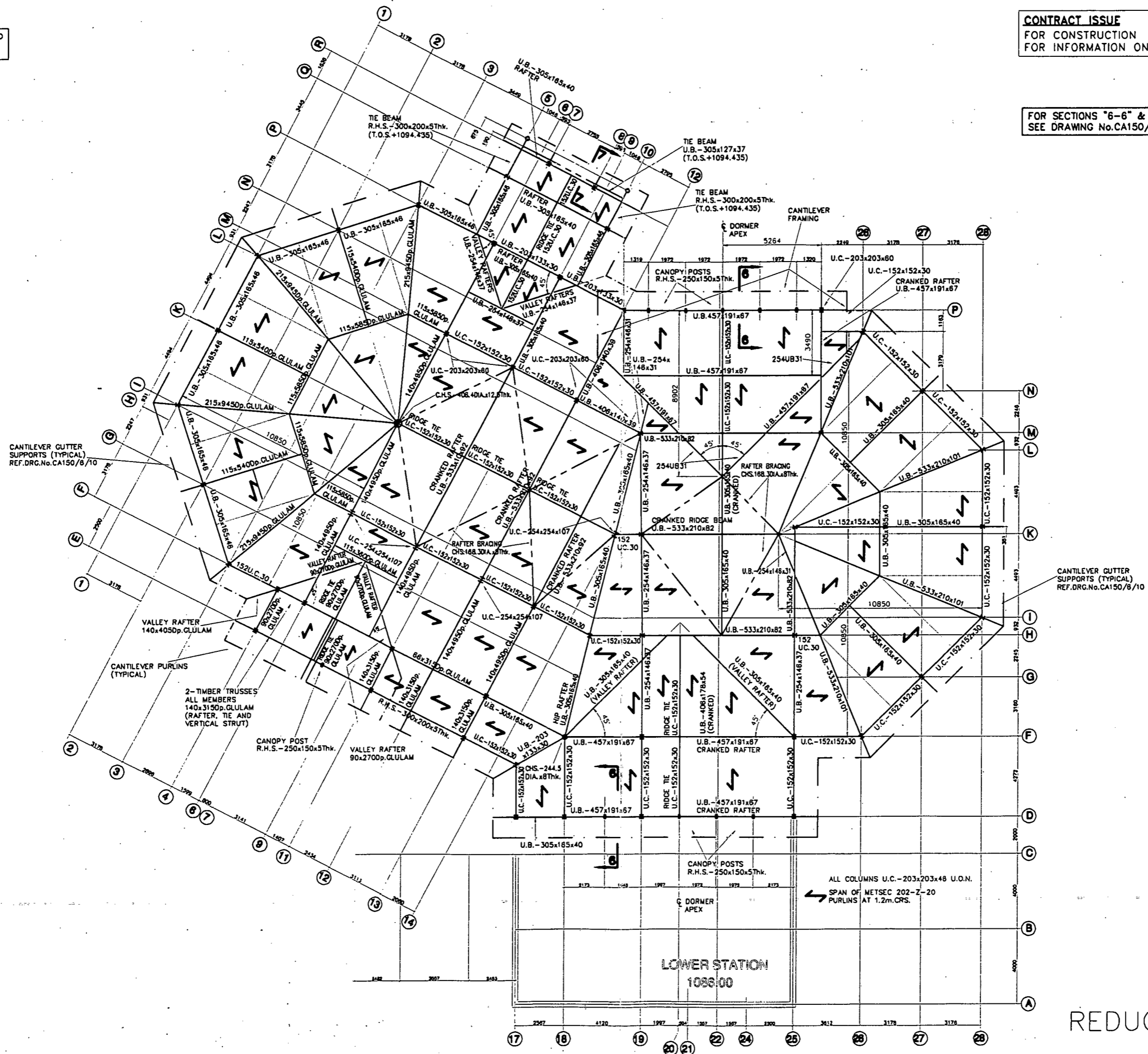
Client
CAIRNGORM CHAIRLIFT COMPANY

Project
CAIRNGORM FUNICULAR

Drawing
ROOF PLAN

Drawing No. **CA150/6/03**
Date **6/8/99**
Scale **1:100**

Revisions	Date	By
A ISSUED FOR BILLING	27/8/99	
B GENERALLY REVISED	5/5/00	
C GENERALLY REVISED	11/5/00	
D GLULAM RAFTERS ADDED IN LIEU OF STEELWORK AT DORMER AREA ENTRANCE AREA UPDATED	24/5/00	
E RAFTER SECTIONS AT VALLEY UPDATED DORMER SET-OUT ADDED	7/5/00	



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 Fax: 01463 719201
 email: crudens@aol.com

Client:

CAIRNGORM CHAIRLIFT
 COMPANY

Project:

CAIRNGORM FUNICULAR

Drawing:

PLAN ON PLANT ROOM

Drawing No.:

CA150/6/04

Drawn By:

[Redacted]

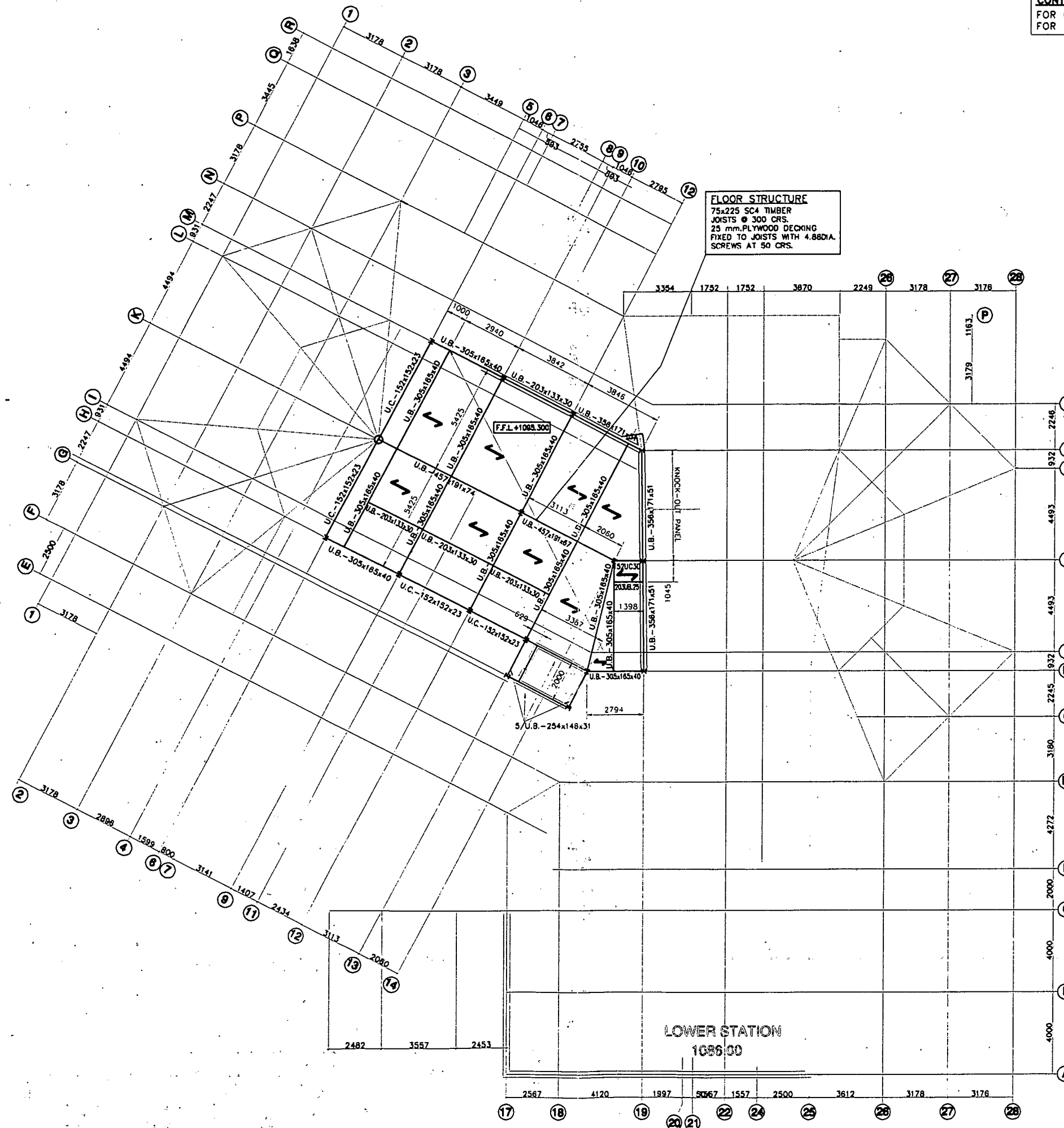
Date: 9/8/99

REV. B

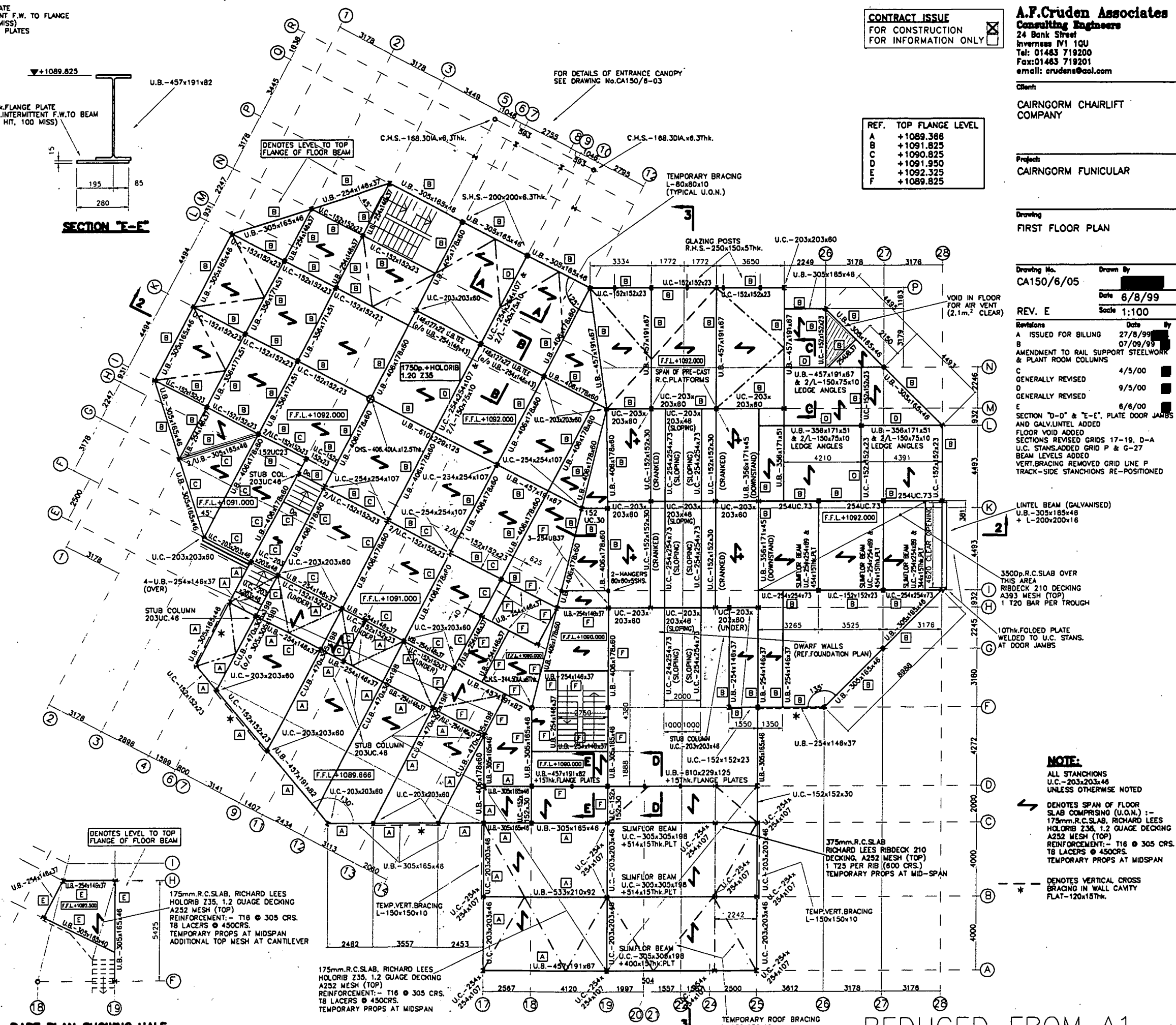
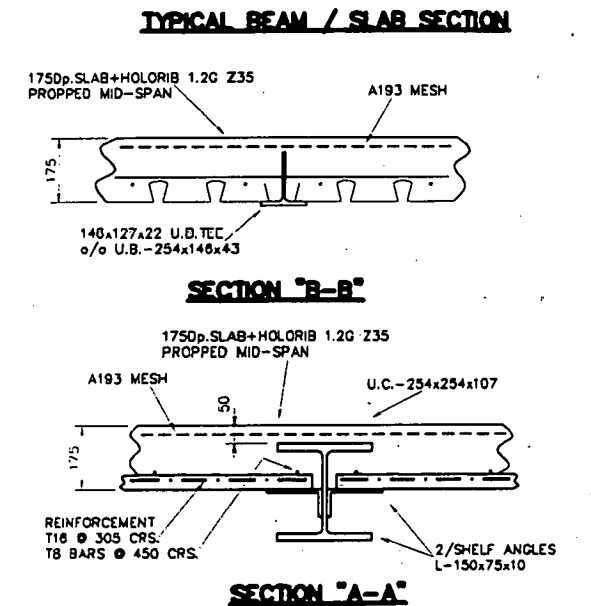
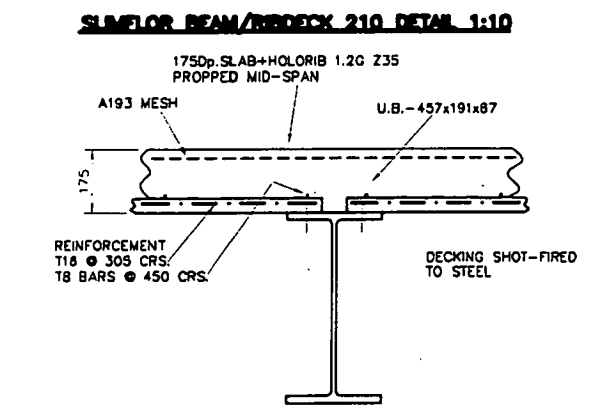
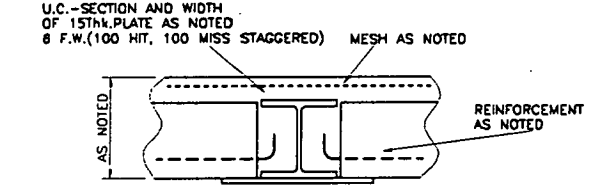
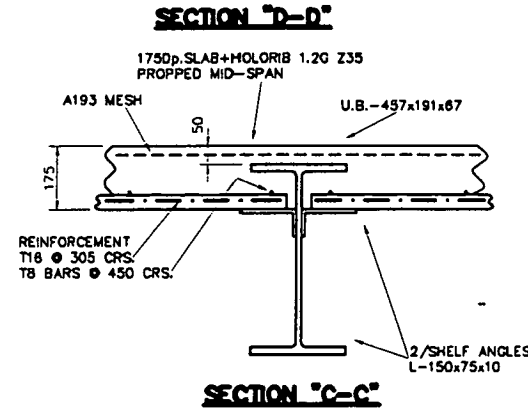
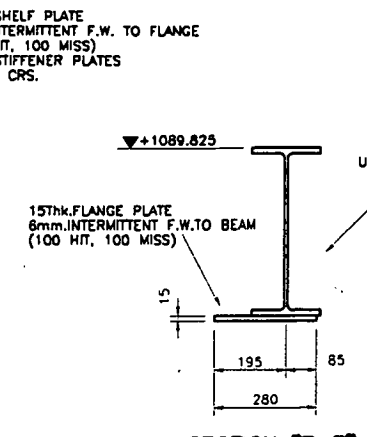
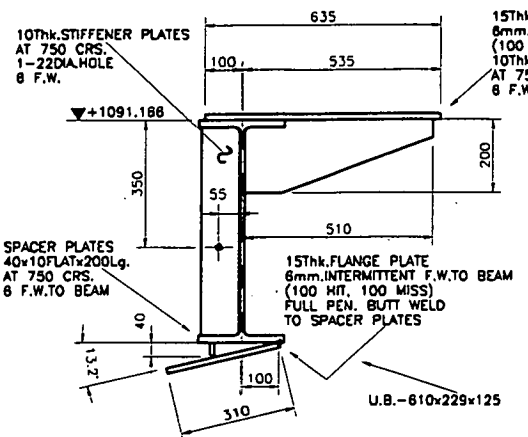
Scale: 1:100

Revisions:

Revisions	Date	By
A ISSUED FOR BILLING	27/8/99	[Redacted]
B PLANT ROOM REVISED	4/5/00	[Redacted]



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REF.	TOP FLANGE LEVEL
A	+1089.388
B	+1091.825
C	+1090.825
D	+1091.950
E	+1092.325
F	+1089.825

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Client:
CAIRNGORM CHAIRLIFT COMPANY

Project:
CAIRNGORM FUNICULAR

Drawing:
FIRST FLOOR PLAN

Drawing No.: CA150/6/05
Date: 6/8/99

REV.	DATE	BY	DESCRIPTION
A	27/8/99		ISSUED FOR BILLING
B	07/09/99		AMENDMENT TO RAIL SUPPORT STEELWORK & PLANT ROOM COLUMNS
C	4/5/00		SPAN OF PRE-CAST R.C. PLATFORMS
D	9/5/00		GENERALLY REVISED
E	6/6/00		GENERALLY REVISED

NOTE:
ALL STANCHIONS U.C.-203x203x48 UNLESS OTHERWISE NOTED
DENOTES SPAN OF FLOOR SLAB COMPRISING (U.O.N.) :- 175mm R.C. SLAB, RICHARD LEE'S HOLORIB Z35, 1.2 GAUGE DECKING A252 MESH (TOP) REINFORCEMENT:- T16 @ 305 CRS. T8 LACERS @ 450 CRS. TEMPORARY PROPS AT MIDSPAN
DENOTES VERTICAL CROSS BRACING IN WALL CAVITY FLAT-120x18THK.

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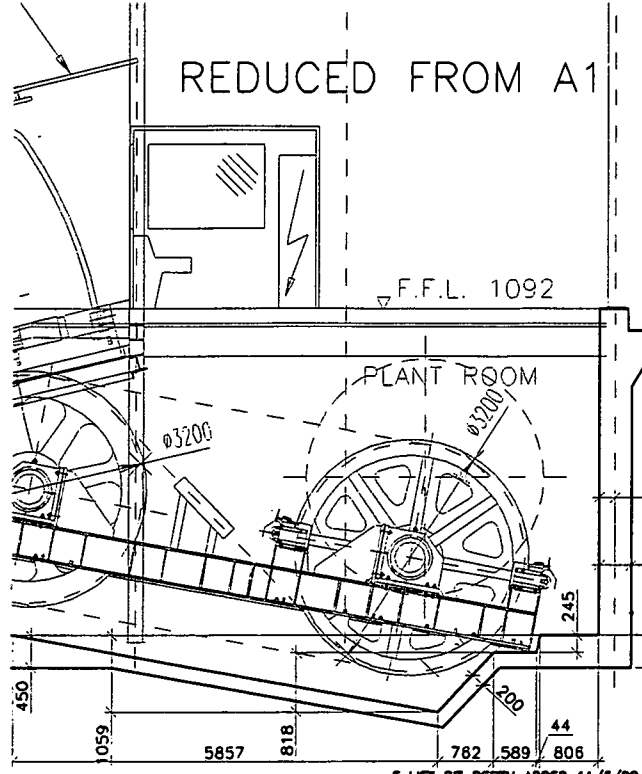
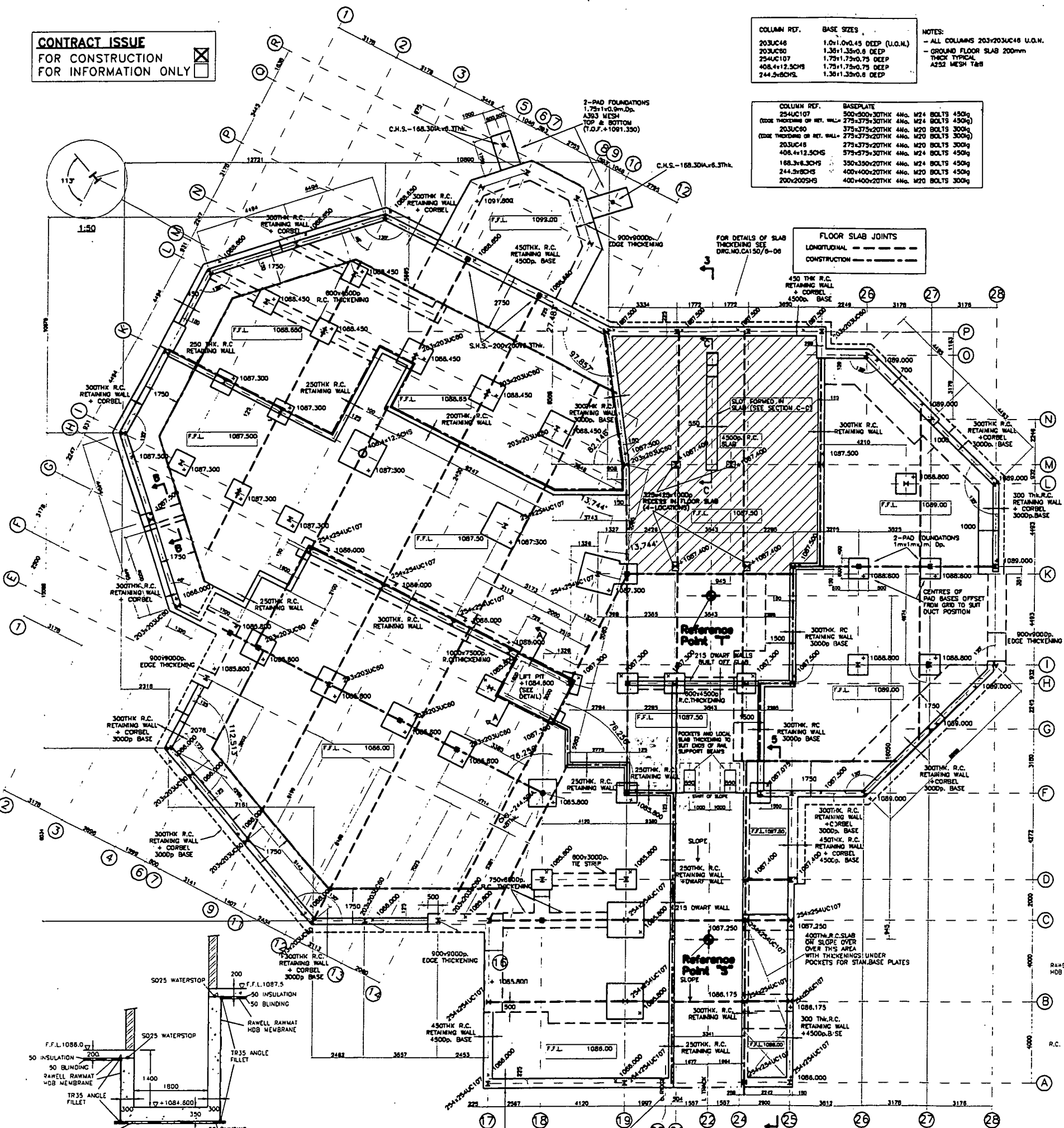
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COLUMN REF.	BASE SIZES
203UC46	1.0x1.0x0.45 DEEP (U.O.N.)
203UC30	1.3x1.3x0.8 DEEP
254UC107	1.75x1.75x0.75 DEEP
408.4x12.5CHS	1.75x1.75x0.75 DEEP
244.5x8CHS	1.3x1.3x0.8 DEEP

NOTES:
 - ALL COLUMNS 203x203UC46 U.O.N.
 - GROUND FLOOR SLAB 200mm THICK TYPICAL
 A252 MESH TAB

COLUMN REF.	BASEPLATE
254UC107	500x500x30THK 4No. M24 BOLTS 450kg
(CODE THICKNESS OF RET. WALL)	275x375x30THK 4No. M24 BOLTS 450kg
203UC60	375x375x20THK 4No. M20 BOLTS 300kg
(CODE THICKNESS OF RET. WALL)	275x375x20THK 4No. M20 BOLTS 300kg
203UC46	275x375x20THK 4No. M20 BOLTS 300kg
408.4x12.5CHS	275x375x20THK 4No. M24 BOLTS 450kg
168.3x6.3CHS	350x350x20THK 4No. M24 BOLTS 450kg
244.5x8CHS	400x400x20THK 4No. M20 BOLTS 450kg
200x200SHS	400x400x20THK 4No. M20 BOLTS 300kg

FLOOR SLAB JOINTS
 LONGITUDINAL - - - - -
 CONSTRUCTION - - - - -



SECTION C-C
 1:50

F LIFT PIT DEPTH ADDED 11/5/00 S.A.O.
 STANCHIONS RE-POSITIONED
 G SECTION "C-C" REVISED 7/5/00 S.O.
 BASES ON GRID X RE-POSITIONED,
 AND INCREASED IN DEPTH
 TO SUIT DUCT
 U.G. STANS ADDED GRID P
 STANCHIONS AT F18.P4 & P9
 REVISED TO HOLLOW SECTION
 TRACK-SIDE STANCHIONS RE-POSITIONED
 H PLANT ROOM STANLGRID M 13/7/00 S.O.
 AMENDMENTS TO TANKING DETAILS.
 RE-POSITIONED, TANKS REMOVED AND
 FOUND LEVELS REVISED AT GRIDS
 24-25, A-D. LIFT PIT REVISED

A.F. Cruden Associates
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 Fax: 01463 719201
 email: crudens@aol.com

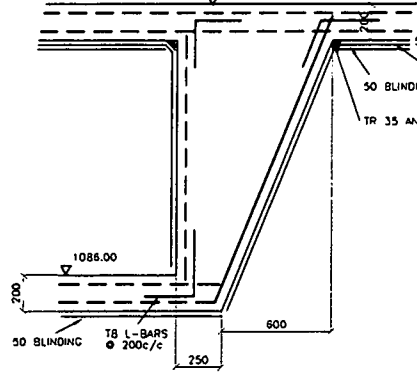
Client:
CAIRNGORM CHAIRLIFT COMPANY

Project:
CAIRNGORM FUNICULAR

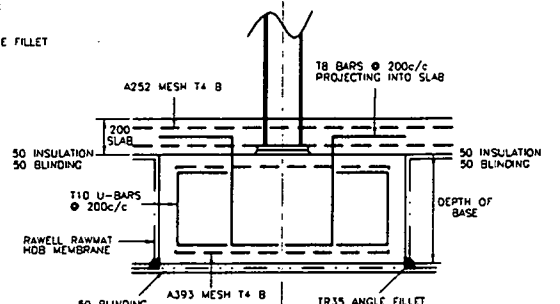
Drawing:
FOUNDATION PLAN & DETAILS

Drawing No. CA150/6/07
 Date 30/08/99
 REV. H Scale AS SHOWN

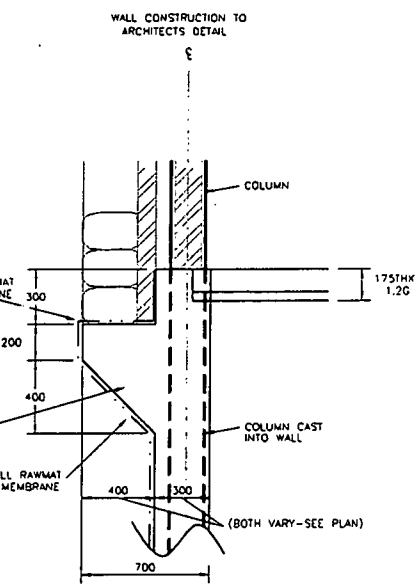
- Revisions
- | Rev. | Date | By |
|------|---------|----|
| A | 8/9/99 | |
| B | 14/1/00 | |
| C | 17/3/00 | |
| D | 22/3/00 | |
| E | 20/4/00 | |



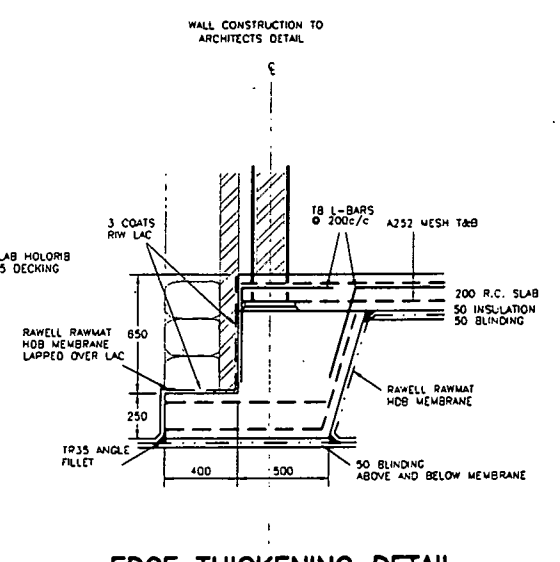
STEPPED FOUNDATION DETAIL
 SECTION B-B 1:20



TYPICAL PAD FOUNDATION DETAIL
 1:20



RETAINING WALL - CORBEL DETAIL
 1:20



EDGE THICKENING DETAIL
 1:20

LIFT PIT DETAIL
 SECTION A-A 1:50

FOUNDATION PLAN
 1:100

ALL STANCHIONS TO BE SET-OUT
 RELATIVE TO REFERENCE POINTS
 "S" AND "T" AS SHOWN ABOVE.

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Inverness IV1 1QU
Tel: 01463 719200
Fax: 01463 719201
email: crudens@aol.com

Client
**CARINGORM CHAIRLIFT
COMPANY**

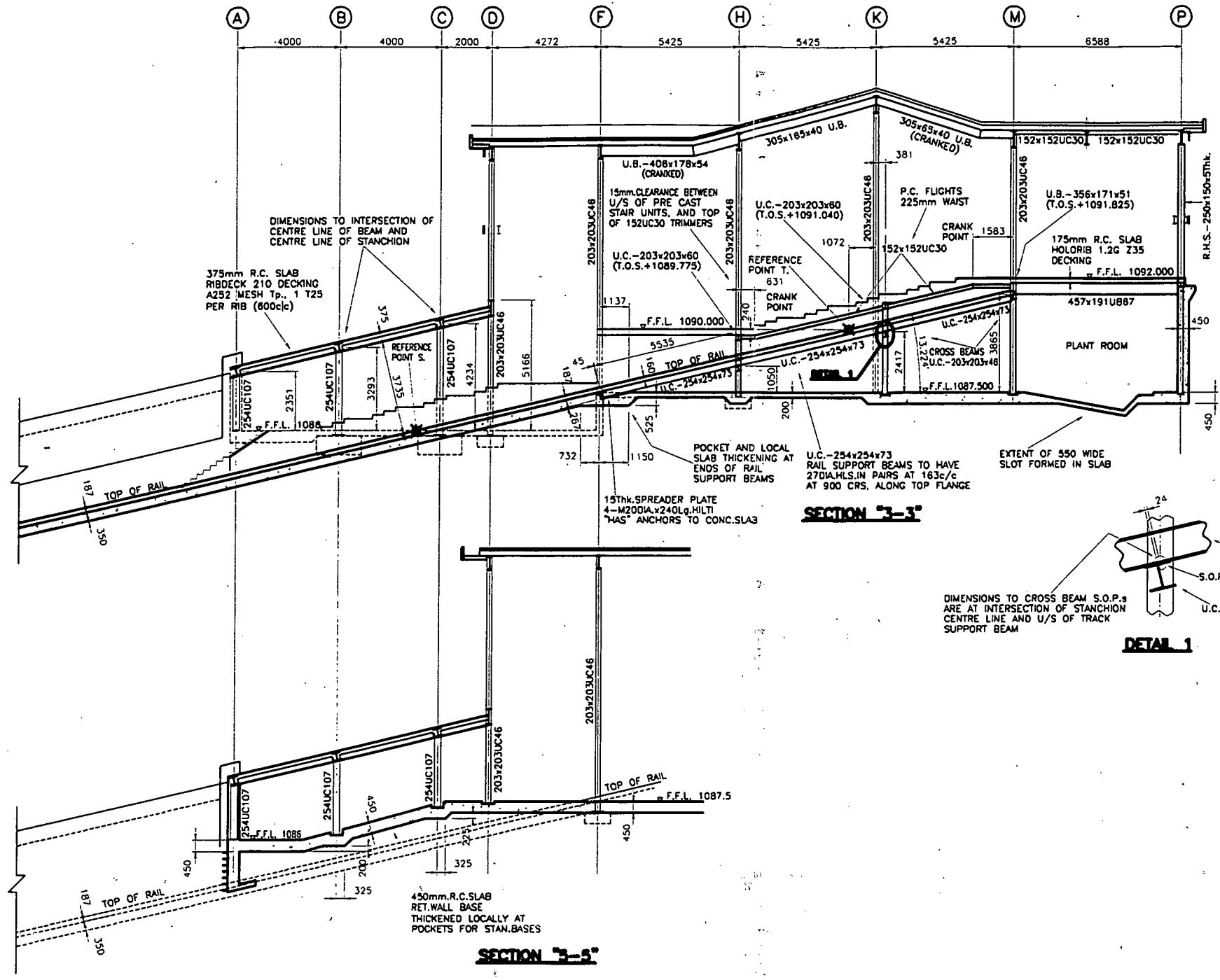
Project
CAIRNGORM FUNICULAR

Drawing
PTARMIGAN - SECTIONS

Drawing No. CA150/6/08
Date 9/8/99

REV. C Scale 1:100

Revisions	Date	By
A GENERAL REVISIONS	5/5/00	
B PLATFORM STEEL REVISED	4/8/00	
C TANKS REMOVED AT SECTION "3-5"	13/7/00	
BEAM ARRANGEMENT MODIFIED AT PLATFORM (GRID M)		



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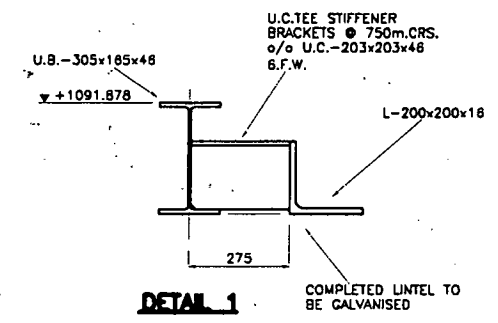
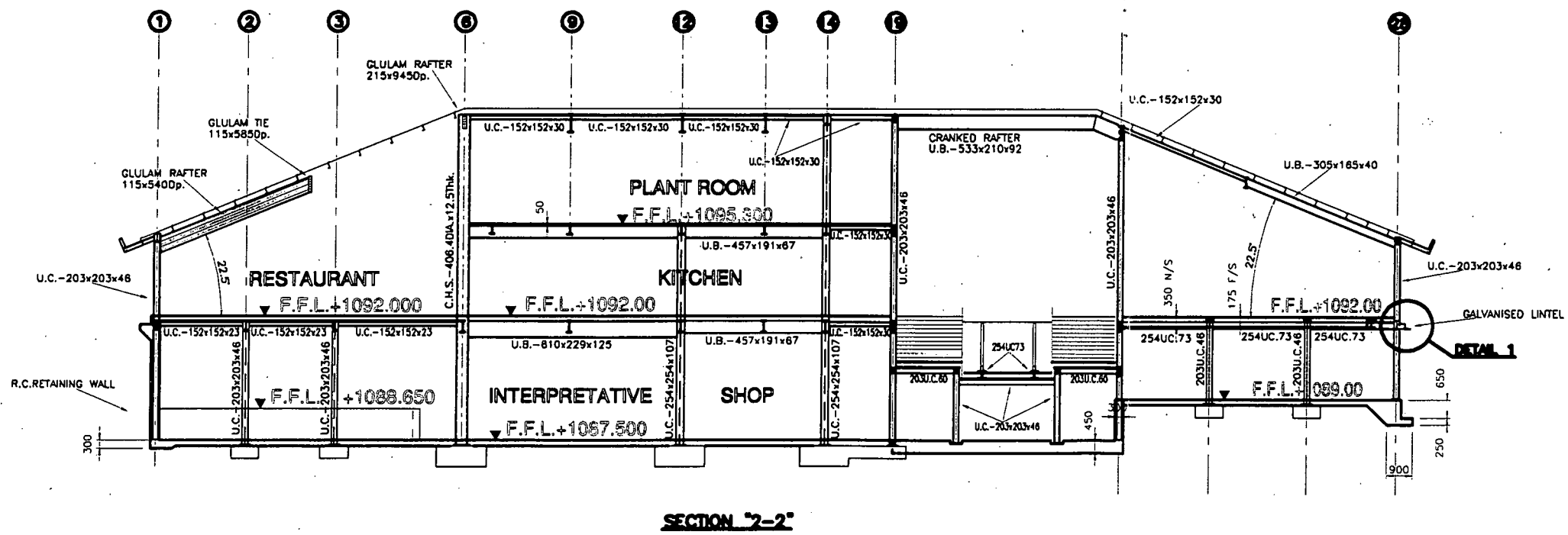
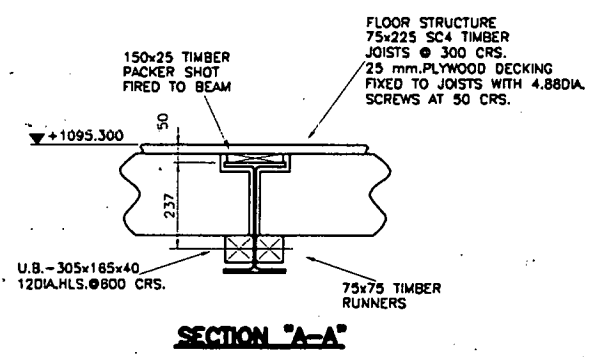
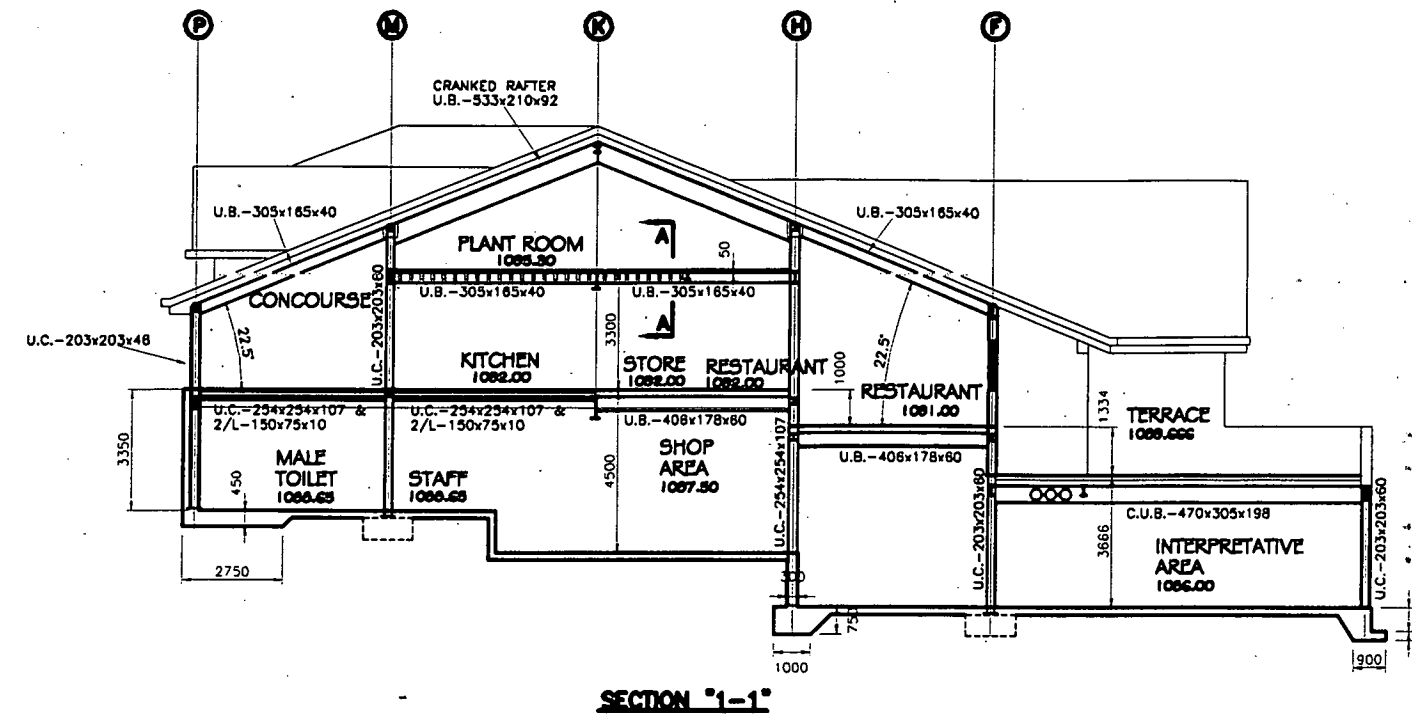
A.F. Cruden Associates
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 Fax: 01463 719201
 email: crudens@aol.com

Client
CARINGORM CHAIRLIFT COMPANY

Project
CAIRNGORM FUNICULAR

Drawing
PTARMIGAN - SECTIONS

Drawing No.	CA150/6/09	Drawn By	
REV. B		Date	9/8/99
Revisions		Scale	1:100
A	FOUNDATIONS/RETAINING WALLS AMENDED SUPERSEDES PREVIOUS DRG.	Date	1/9/99
B	GENERALLY UPDATED	Date	5/5/00



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Client:
CAIRNGORM CHAIRLIFT COMPANY

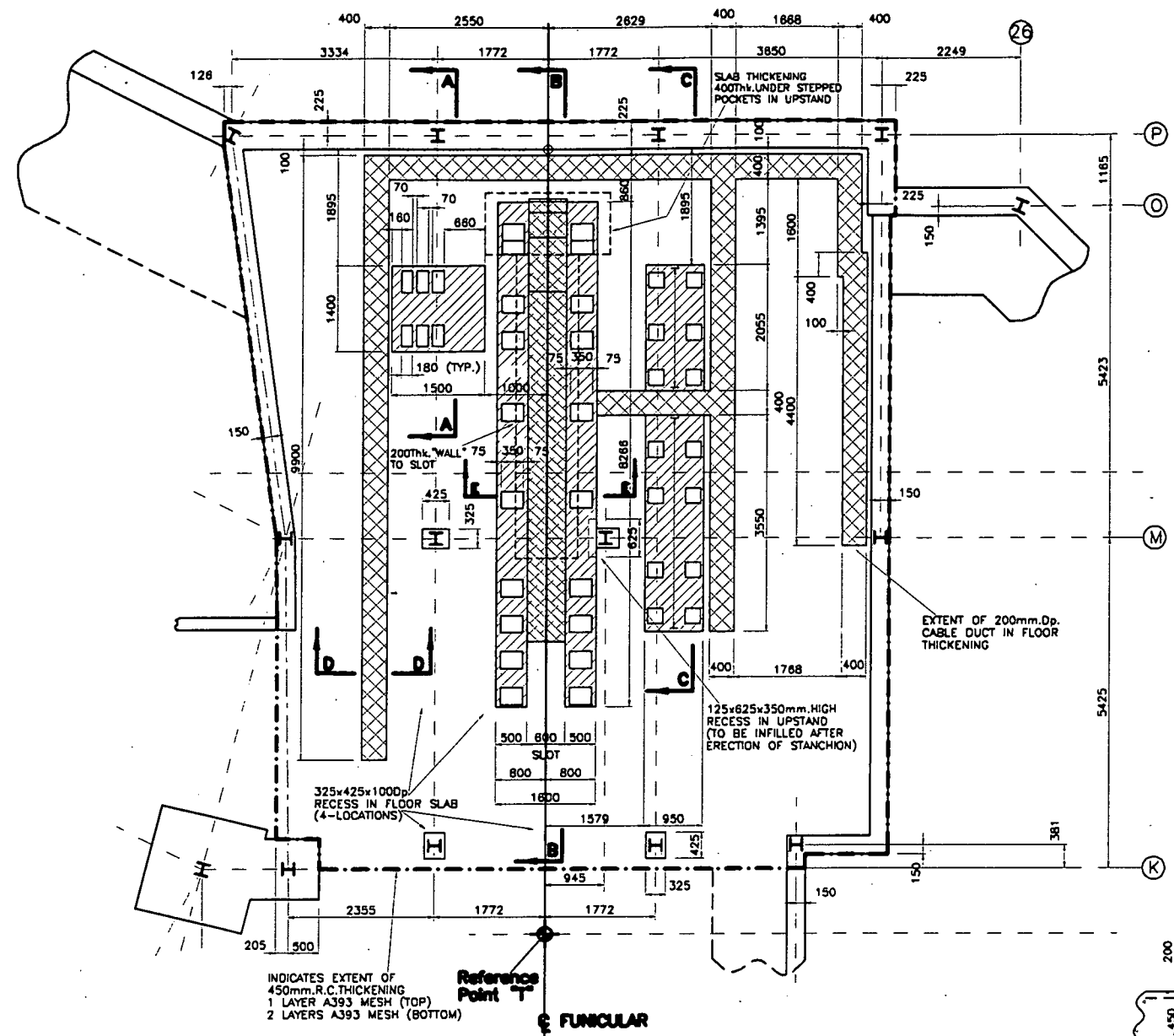
Project:
CAIRNGORM FUNICULAR

Drawing:
PLAN ON PLANT ROOM FLOOR THICKENING

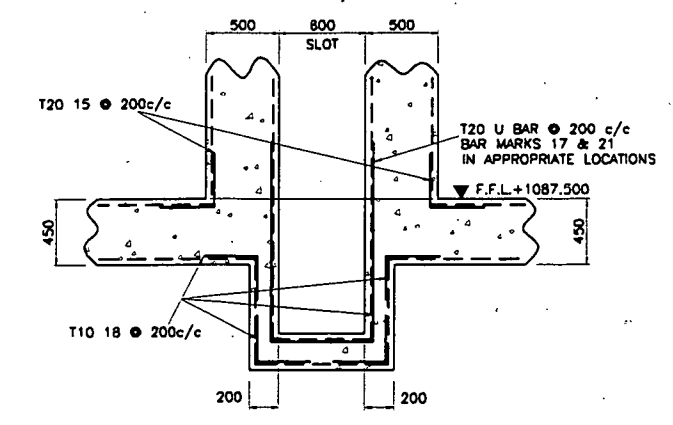
Drawing No. CA150/6/06
 Drawn By [Redacted]

REV. A Date 14/7/00
 Scale AS SHOWN

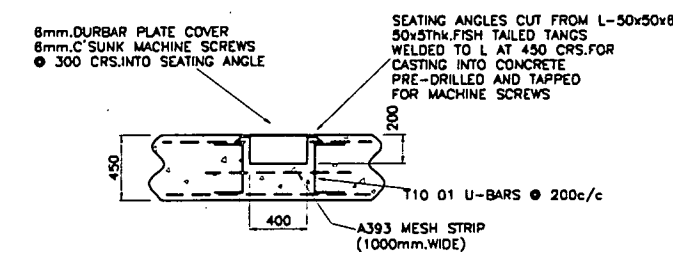
Revisions
 A BAR MARKS ADDED 24/7/00



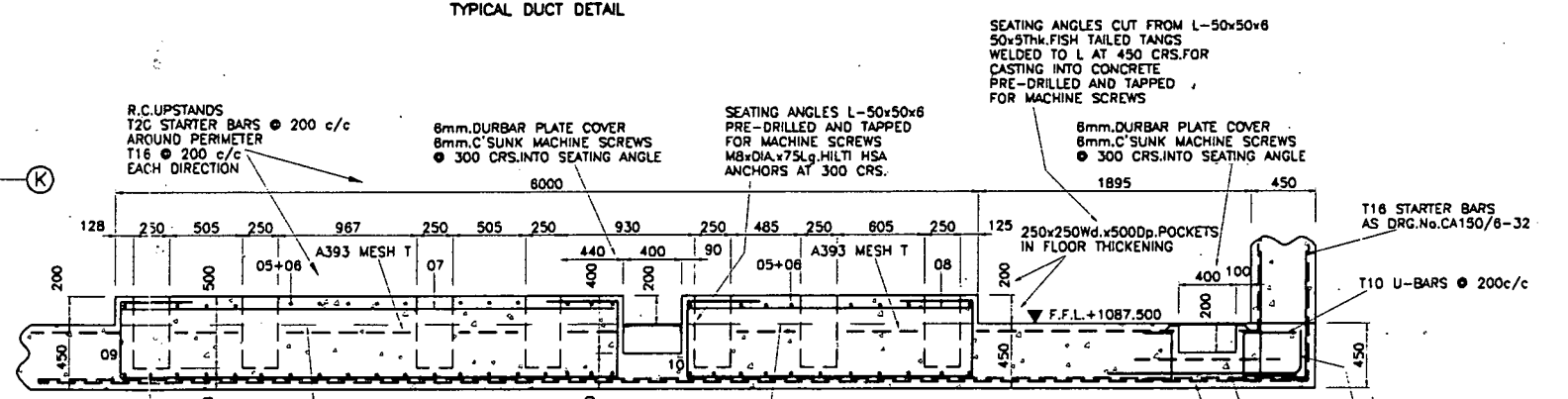
PLAN ON PLANT ROOM FLOOR THICKENING (1 : 50)



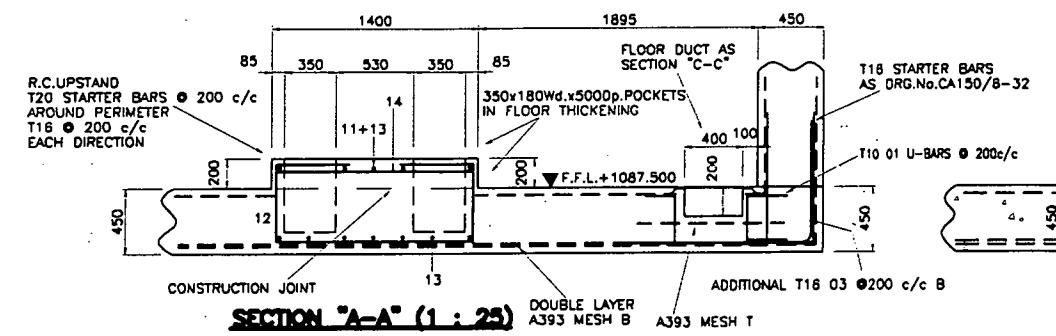
SECTION E-E (1 : 25)



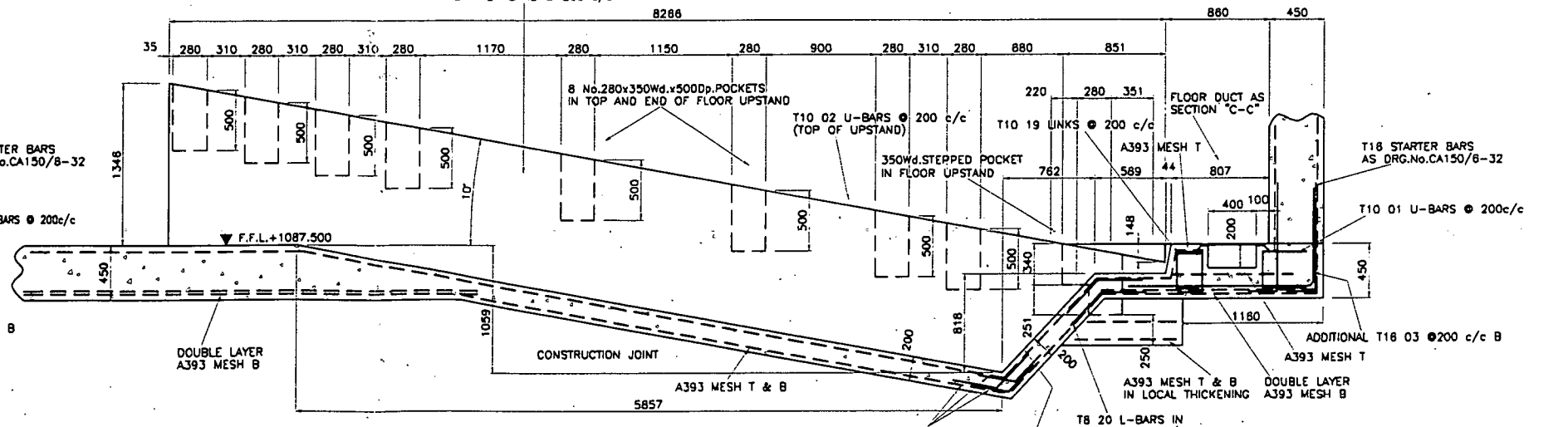
SECTION D-D (1 : 25)
 TYPICAL DUCT DETAIL



SECTION C-C (1 : 25)



SECTION A-A (1 : 25)



SECTION B-B (1 : 25)

REDUCED FROM A1

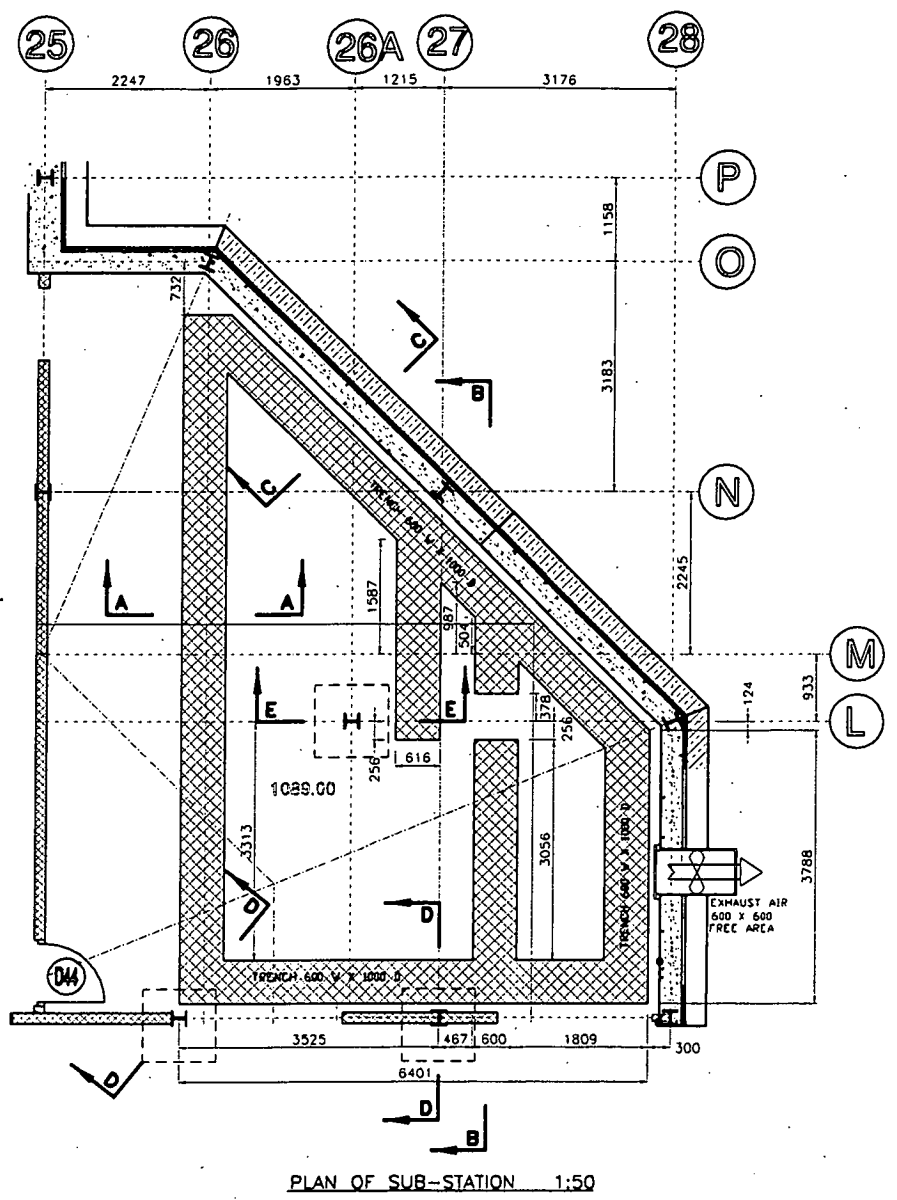
A.F. Cruden Associates
Consulting Engineers
 24 Bank Street
 Inverness IV1 1QU
 Tel: 01463 719200
 Fax: 01463 719201
 email: arudens@aol.com

Client
CAIRNGORM CHAIRLIFT COMPANY

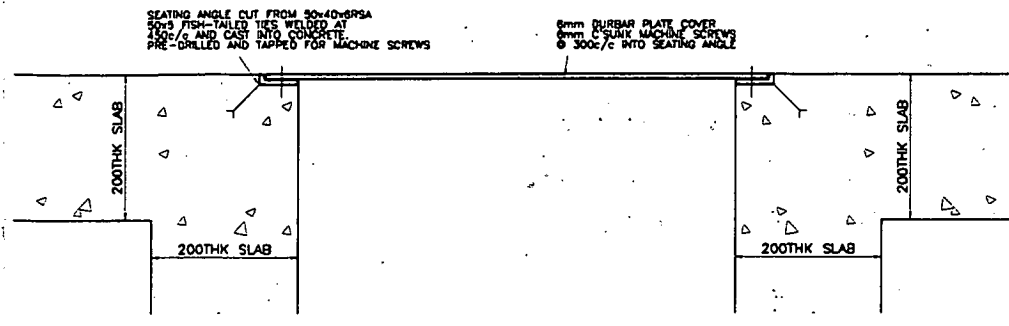
Project
CAIRNGORM FUNICULAR

Drawing
PLAN/SECTIONS ON PTARMIGAN SUB-STATION

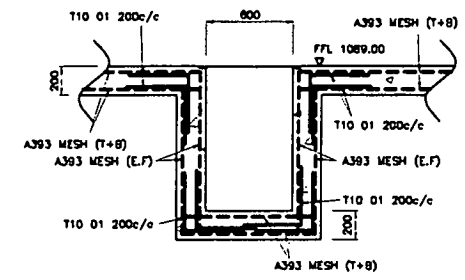
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Date	1/9/00	Scale	AS SHOWN
Revisions		Date	By



PLAN OF SUB-STATION 1:50

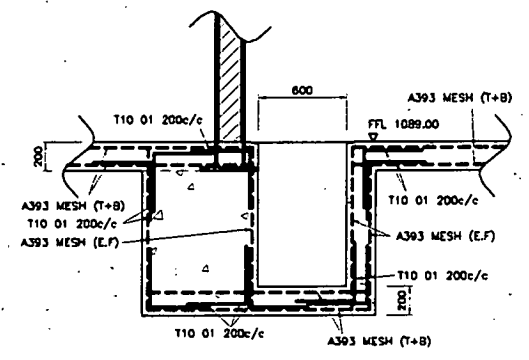


SECTION AT STEEL ANGLE AND COVER PLATE 1:5

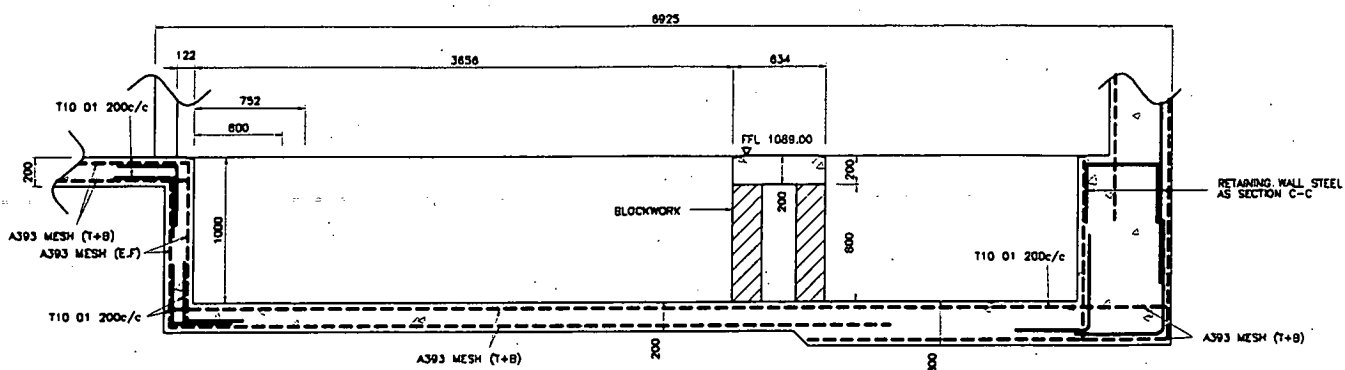


SECTION A-A 1:25

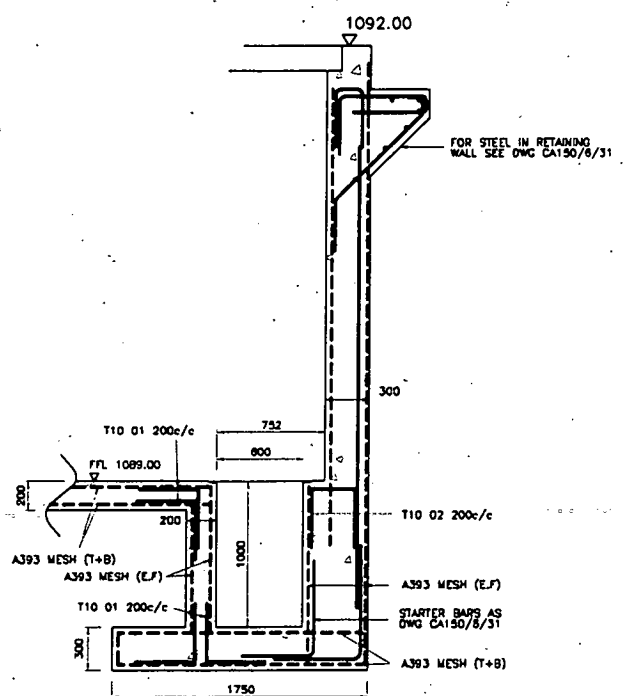
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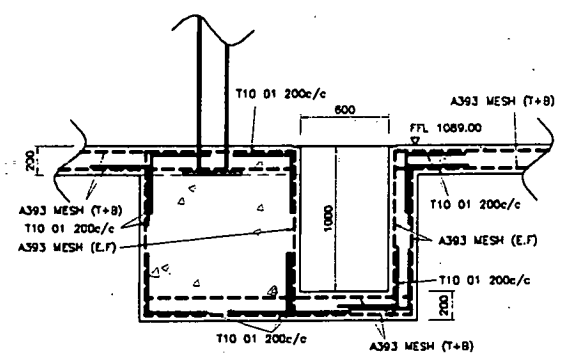
SECTION D-D 1:25



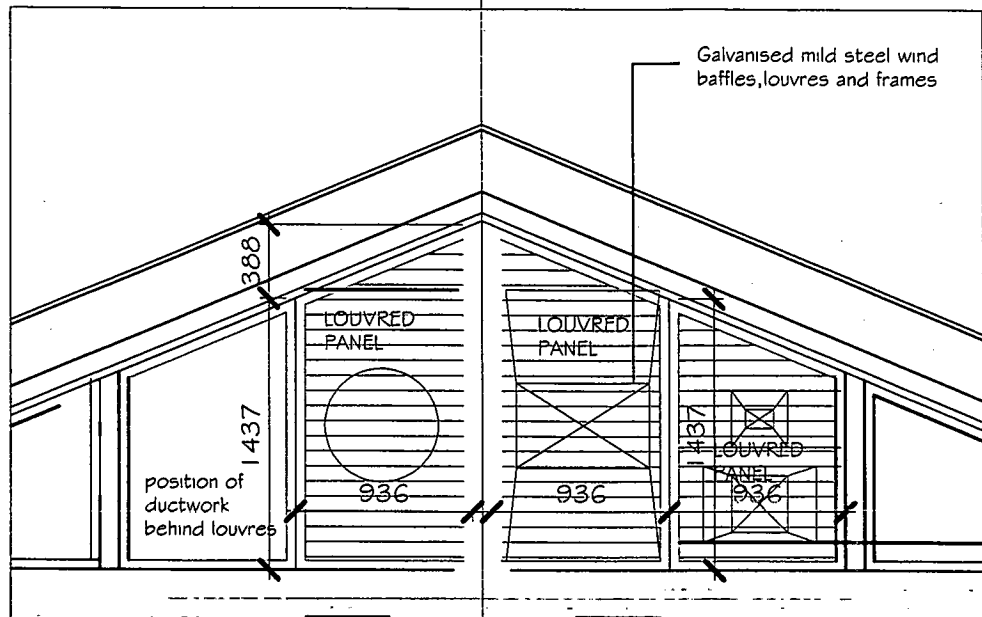
SECTION B-B 1:25



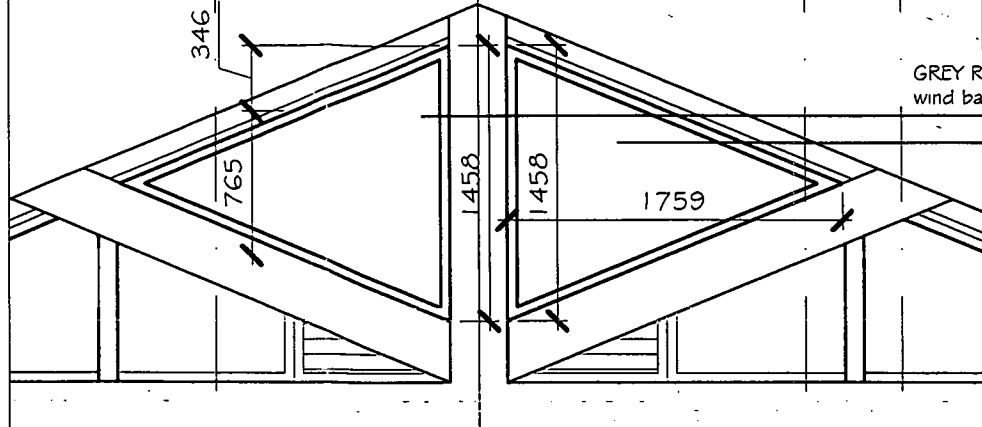
SECTION C-C 1:25



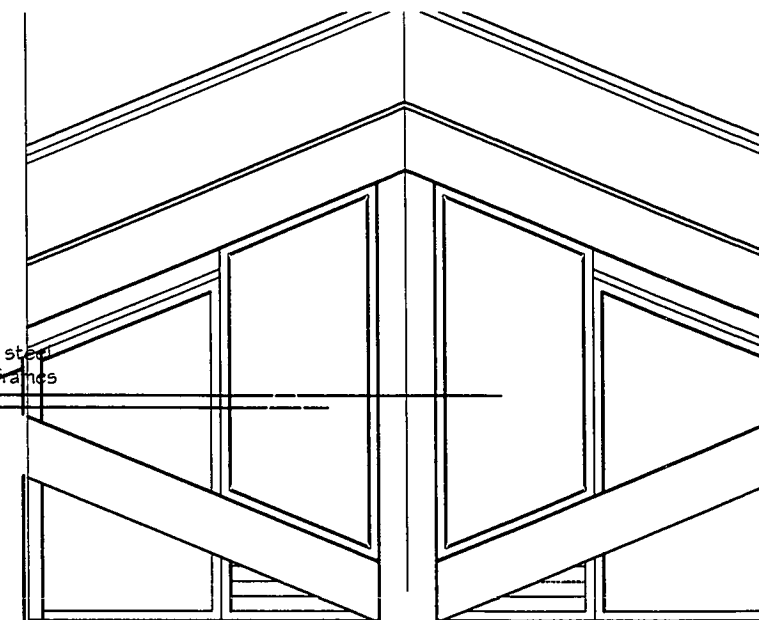
SECTION E-E 1:25



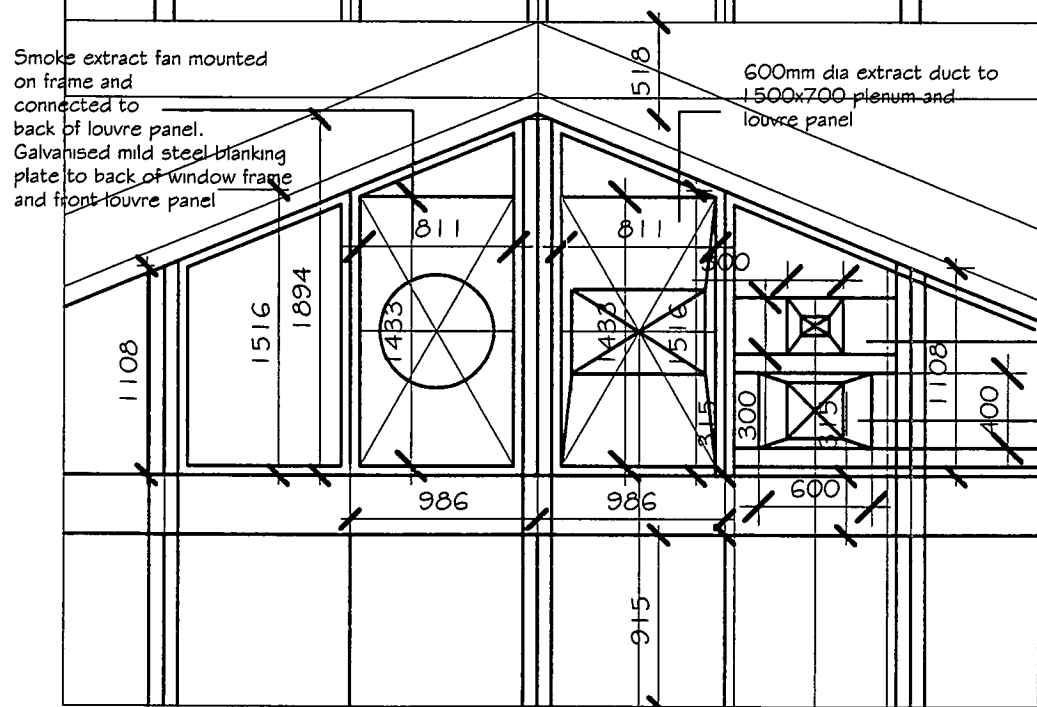
ELEVATION OF LOUVRE PANEL ON GRID P



ELEVATION OF SHIELDING GL. P



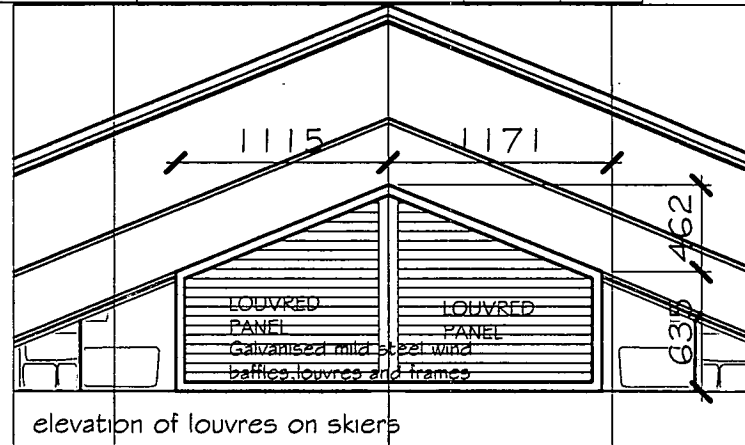
elevation of shielding on GL D



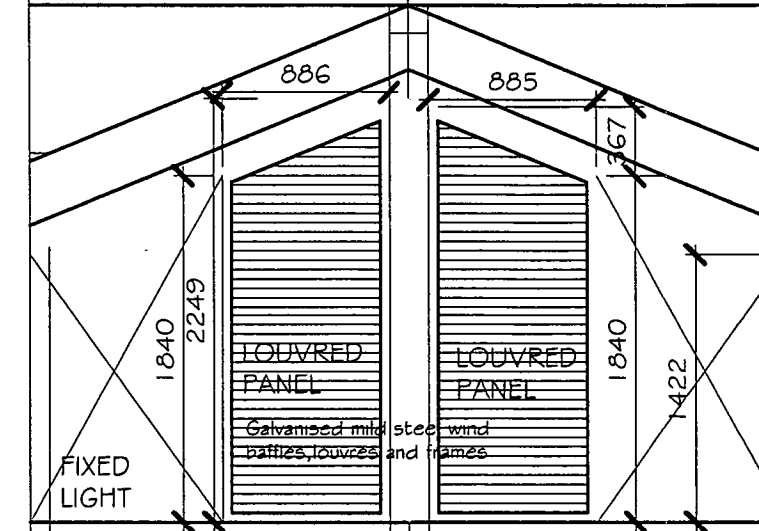
EXTERNAL ELEVATION OF DUCT AND PLENUM BEHIND LOUVRES ON GRID LINE P

150x100mm extract duct to 300x300 plenum to louvre panel
300x300 extract duct to 600x400 plenum to louvre panel

underside of beam 1095.304



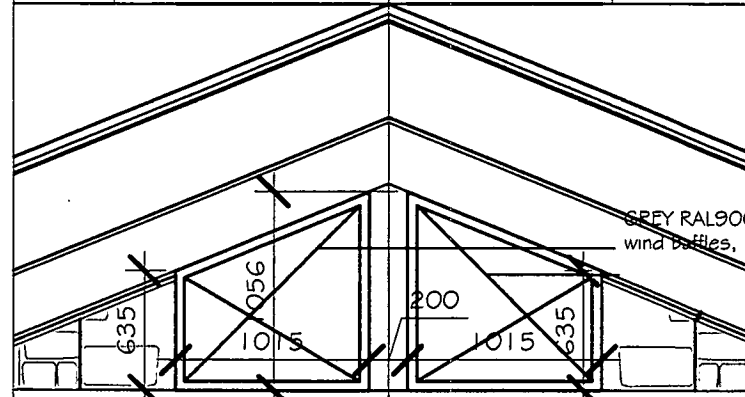
elevation of louvres on skiers



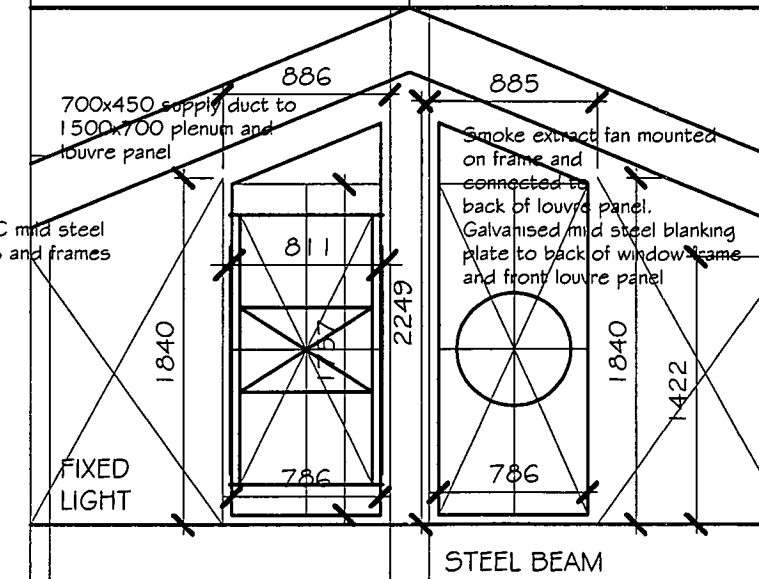
elevation of shielding on GL D STEEL BEAM

construction

ENSURE SITE MEASUREMENT BEFORE FABRICATION

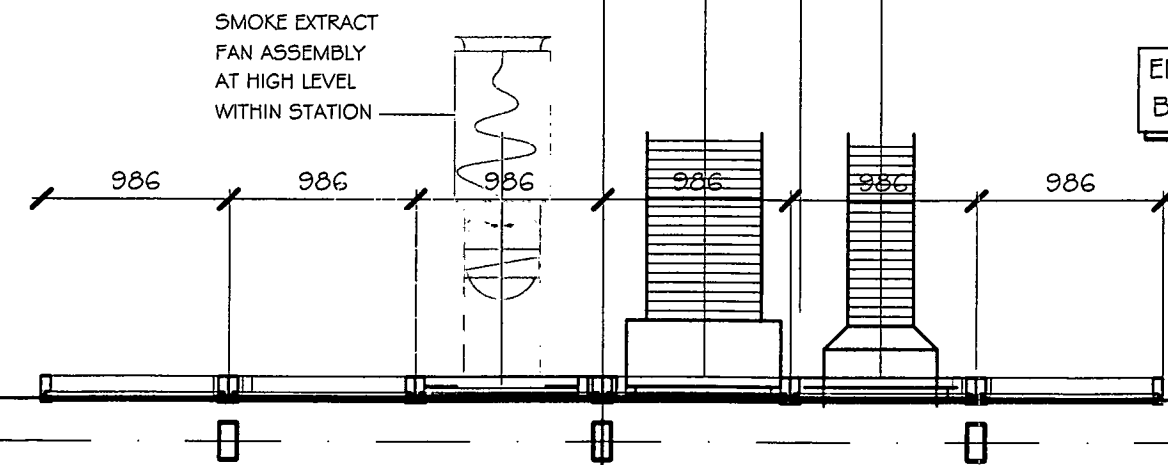


elevation of shielding skiers

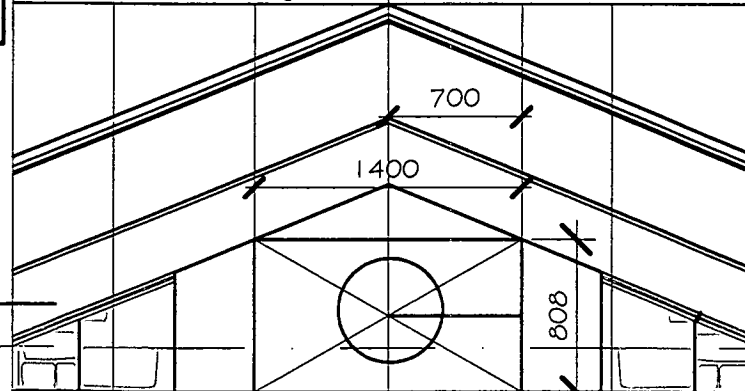


elevation behind louvres on GL D

REV B 13.07.01. DP GREY RAL9007 PPC MILD STEEL WIND SHIELDS AND ANGLE FRAME MOUNTED IN TRUSSES, CHECK ALL DIMENSIONS ON SITE BEFORE FABRICATION
REV A 1.3.1. DP RECTANGULAR DUCTWORK, GALVANISED MS BAFFLES OR POLYCARBONATE



PLAN OF DUCT AND PLENUM BEHIND LOUVRES ON GRID LINE P



elevation of plenum on skiers

CAIRNGORM FUNNICULAR
PTARMGAN

LOUVRES AND SHIELDING
GABLE ENDS



Notes

LIGHTING FIXTURES	
	LIGHTING FIXTURE OR LAMP - GENERAL SYMBOL
	LIGHTING FIXTURE OR LAMP - WALL MOUNTED
	OUTDOOR LIGHTING COLUMN
	LIGHTING BOLLARD
	ANGLEPOISE
	PROJECTOR
	SPOTLIGHT
	FLOODLIGHT
	FLUORESCENT LAMP (1)
	FLUORESCENT LAMP (2)
	FLUORESCENT LAMP (WALL MOUNTED)
	LIGHTING FIXTURE OR LAMP - GENERAL SYMBOL
	LIGHTING FIXTURE OR LAMP - WALL MOUNTED
	FLUORESCENT FIXTURE
	MODULAR FLUORESCENT FIXTURE
	ILLUMINATED SIGN
	AUXILIARY APPARATUS FOR HID LAMP IF SEPARATE FROM FIXTURE
	EMERGENCY LIGHTING FIXTURE
	EMERGENCY LIGHTING FIXTURE - WALL MOUNTED
	ILLUMINATED EMERGENCY SIGN
	PRESENCE DETECTOR
	LIGHT SENSOR

LOCAL SWITCHES	
	SP 1 WAY
	DP 1 WAY
	SP 2 WAY
	SP INTERMEDIATE
	CORD OPERATED SP 1WAY
	CORD OPERATED DP 1 WAY
	DP 1 WAY 1 GANG WITH FLEX OUTLET
	DP 1 WAY 1 GANG WITH PILOT LAMP
	DP 1 WAY 1 GANG WITH PILOT LAMP & FLEX OUTLET
	DIMMER SWITCH
	PERIOD LIMITED LIGHTING SWITCH
	TIME SWITCH
	THERMOSTAT
	KEY OPERATED SWITCH

FUSED CONNECTION UNITS 13 AMP	
	FUSED CONNECTION UNIT
	FUSED CONNECTION UNIT SWITCHED
	FUSED CONNECTION UNIT SWITCHED WITH FRONT CABLE ENTRY
	FUSED CONNECTION UNIT SWITCHED WITH INDICATOR LIGHT
	FUSED CONNECTION UNIT WITH INDICATOR LIGHT
	FUSED CONNECTION UNIT SWITCHED WITH INDICATOR LIGHT & FRONT CABLE ENTRY

CONNECTION UNITS	
	FLEX CONNECTION UNIT
	COOKER CONNECTION UNIT

COOKER CONTROL UNITS	
	AUXILIARY CIRCUIT 13A WITH 13A SOCKET OUTLET WITHOUT PILOT LAMPS
	AUXILIARY CIRCUIT 13A WITH 13A SOCKET OUTLET WITH PILOT LAMPS

SOCKET OUTLETS 13 AMP	
	UNSWITCHED
	SP SWITCHED
	SP SWITCHED WITH PILOT LAMP
	SP SWITCHED WITH PILOT LAMP AND 30mA RCD
	SP SWITCH INTERLOCKING
	DP SWITCHED
	MULTIPLE SOCKET OUTLET eg SP SWITCHED 2 GANG
	SHAVER SOCKET OUTLET
	FLOOR SOCKET OUTLET

SOCKET OUTLETS (VOLTAGE & FREQUENCY DISCRIMINATING)	
	UNSWITCHED BS4343

SHAVER OUTLETS	
	SHAVER UNIT TO BS 4573 NOT FOR USE IN BATHROOM
	SHAVER UNIT TO BS 3052 FOR USE IN BATHROOM

LIGHTNING PROTECTION & EARTHING	
	LIGHTNING PROTECTION, EARTHING & INSPECTION POINT

SWITCHGEAR	
	MAIN CONTROL OR INTAKE POINT OR MAIN SWITCHBOARD POSITION
	DISTRIBUTION BOARD OR POINT
	DISTRIBUTION BOARD WITH SWITCH
	CONSUMER UNIT - PROTECTIVE DEVICE HRC FUSE
	CONSUMER UNIT - PROTECTIVE DEVICE MCB
	CONTROL PANEL OR GROUP STARTER PANEL
	SWITCH eg 3 POLE & NEUTRAL RATED 30AMP
	SWITCH WITH PILOT LAMP
	CHANGEOVER SWITCH eg 4 POLE RATED 100AMP
	STARTER
	AIR BREAK CONTACTOR eg 3 POLE RATED 60AMP
	INTEGRATING METER - EXAMPLE kWh

ELECTRICAL HVAC EQUIPMENT	
	AXIAL FAN
	RADIAL FAN
	FAN CONTROLLER
	PUMP
	AC PUMP
	DC PUMP
	2 PORT CONTROL VALVE
	3 PORT CONTROL VALVE
	4 PORT CONTROL VALVE
	DAMPER ACTUATOR
	DETECTOR eg TEMPERATURE DETECTOR
	IMMERSION DETECTOR eg TEMPERATURE DETECTOR
	SOLAR DETECTOR
	ELECTRO-MECHANICAL CONTROLLER eg THERMOSTAT
	IMMERSION ELECTRO-MECHANICAL CONTROLLER eg THERMOSTAT
	ELECTRONIC CONTROLLER
	ELECTRONIC CONTROLLER WITH DETECTOR
	SETTING UNIT
	INDICATING UNIT
	HEATER

AUDIBLE WARNING SYSTEM	
	BELL
	BUZZER
	PUSH
	TRANSFORMER

FIRE ALARMS	
	BELL
	SIREN
	CALL POINT
	HEAT DETECTOR
	SMOKE DETECTOR
	REMOTE LED
	BATTERY CHARGER
	INDICATOR PANEL
	FIRE ALARM CONTROL PANEL

INTRUDER DETECTION	
	PIR
	DOOR CONTACT
	PANIC BUTTON
	SECURITY CONTROL PANEL
	REMOTE INPUT/OUTPUT DEVICE

COMMUNICATIONS EQUIPMENT	
	LOUDSPEAKER
	BI-DIRECTIONAL LOUDSPEAKER
	AMPLIFIER
	MICROPHONE
	AERIAL
	DIN SOCKET OUTLET
	SOCKET OUTLET - TELEVISION
	DATA OUTLET
	TELEPHONE OUTLET
	TELEPHONE HANDSET
	TELEX EQUIPMENT
	CLOSED CIRCUIT TELEVISION

ROUTING OF CONDUCTORS	
	WIRING ON SURFACE
	WIRING UNDER SURFACE
	WIRING IN CONDUIT
	WIRING IN TRUNKING
	WIRING GOING UPWARDS
	WIRING GOING DOWNWARDS
	WIRING PASSING THROUGH VERTICALLY

INTRUDER DETECTION SYMBOLS ADDED			
Rev	Description	By	Date
A			20/04/00

Dr. Status
CONSTRUCTION

Blackwood Partnership
Consulting Engineers

6-7 Atholl Place
EDINBURGH
EH3 8HP
E-mail: mail@blackwood.co.uk

Tel 0131 229 7268
Fax 0131 221 8300

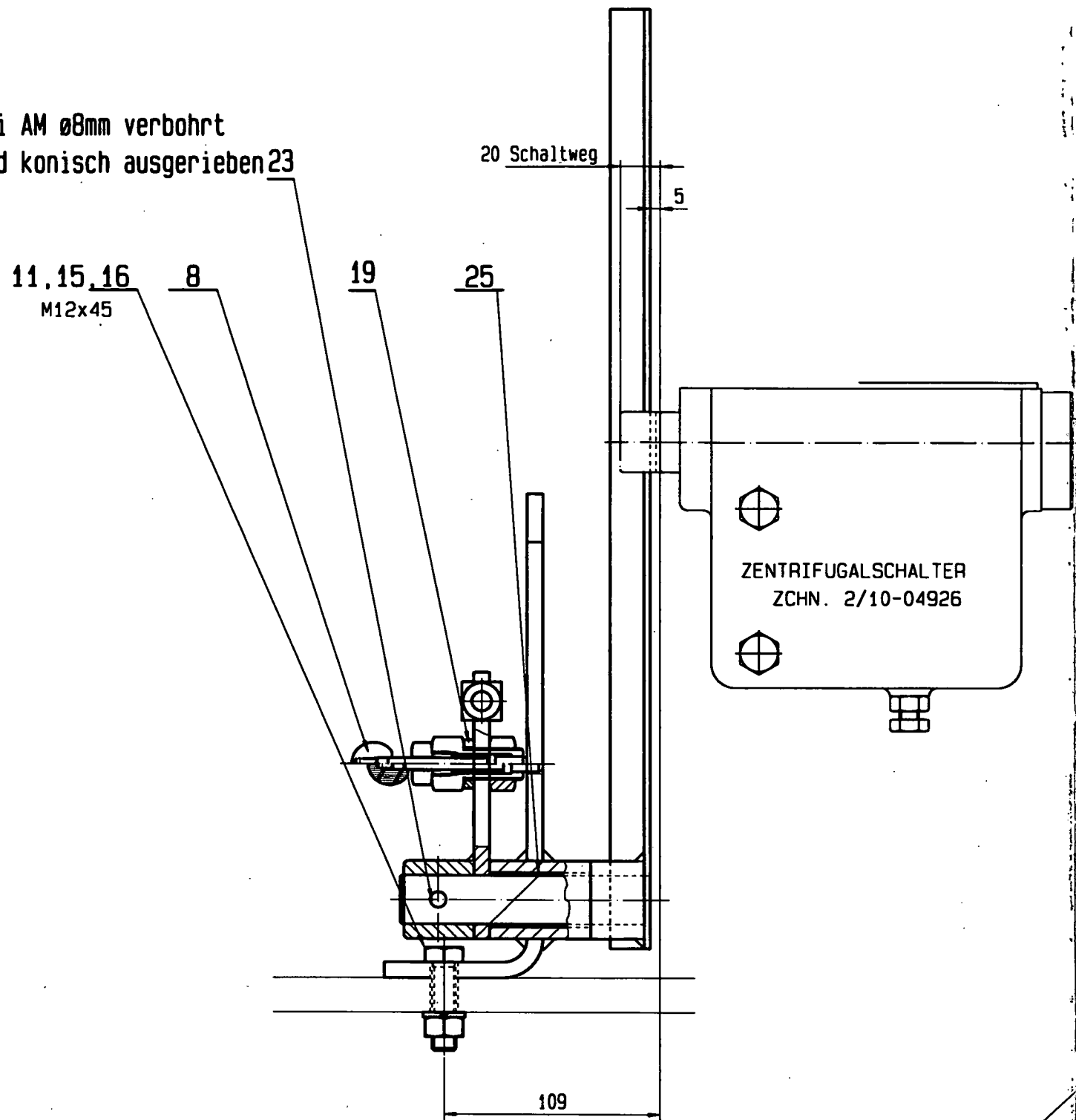
Client
Cairngorm Chairlift Co. Ltd.

Project
Cairngorm Funicular Railway

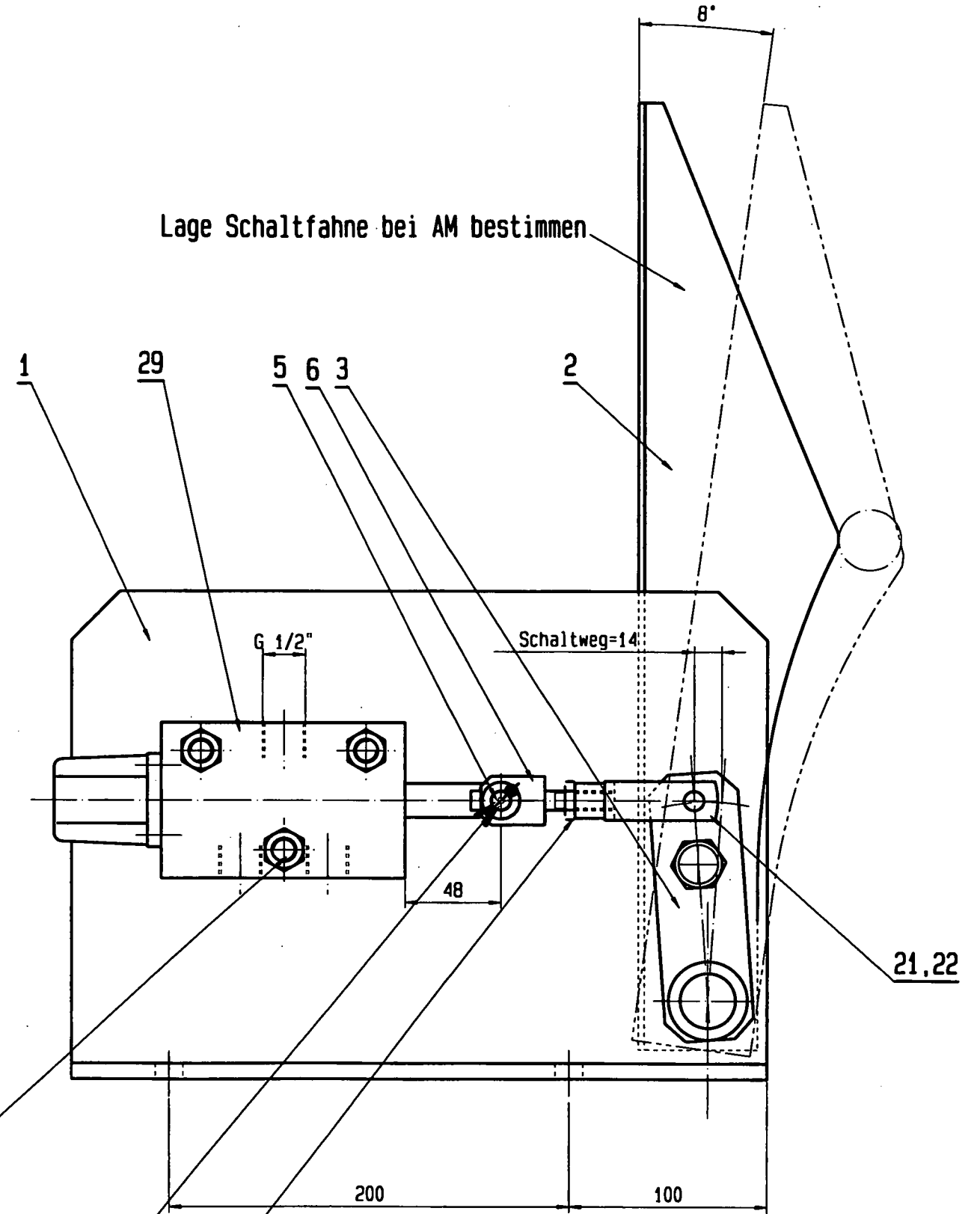
Title
Key to Symbols

A1 Scale	A3 Scale	Date	Engineer	Checked
NTS	NTS	08/07/99	JS	KJ
Dr. No				Rev
1080ET(600)001				A

Bei AM ø8mm verbohrt
und konisch ausgerieben 23



Lage Schaltfahne bei AM bestimmen



12, 15, 16, 17

M12x70
Zwischen Ventil Pos. 29
und Support Pos. 1
U-scheibe unterlegen
wegen Dreipunktauflage

20, 27

18

Schaltfahne Pos 2 und Ventil Pos 29
in geschalteter Stellung gezeichnet

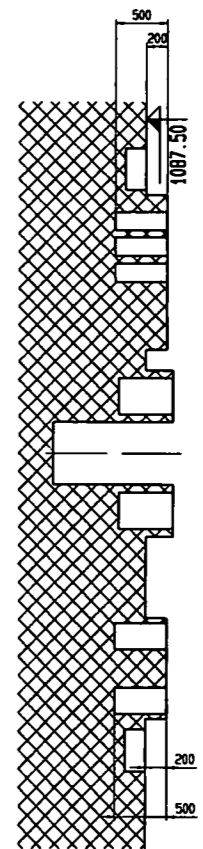
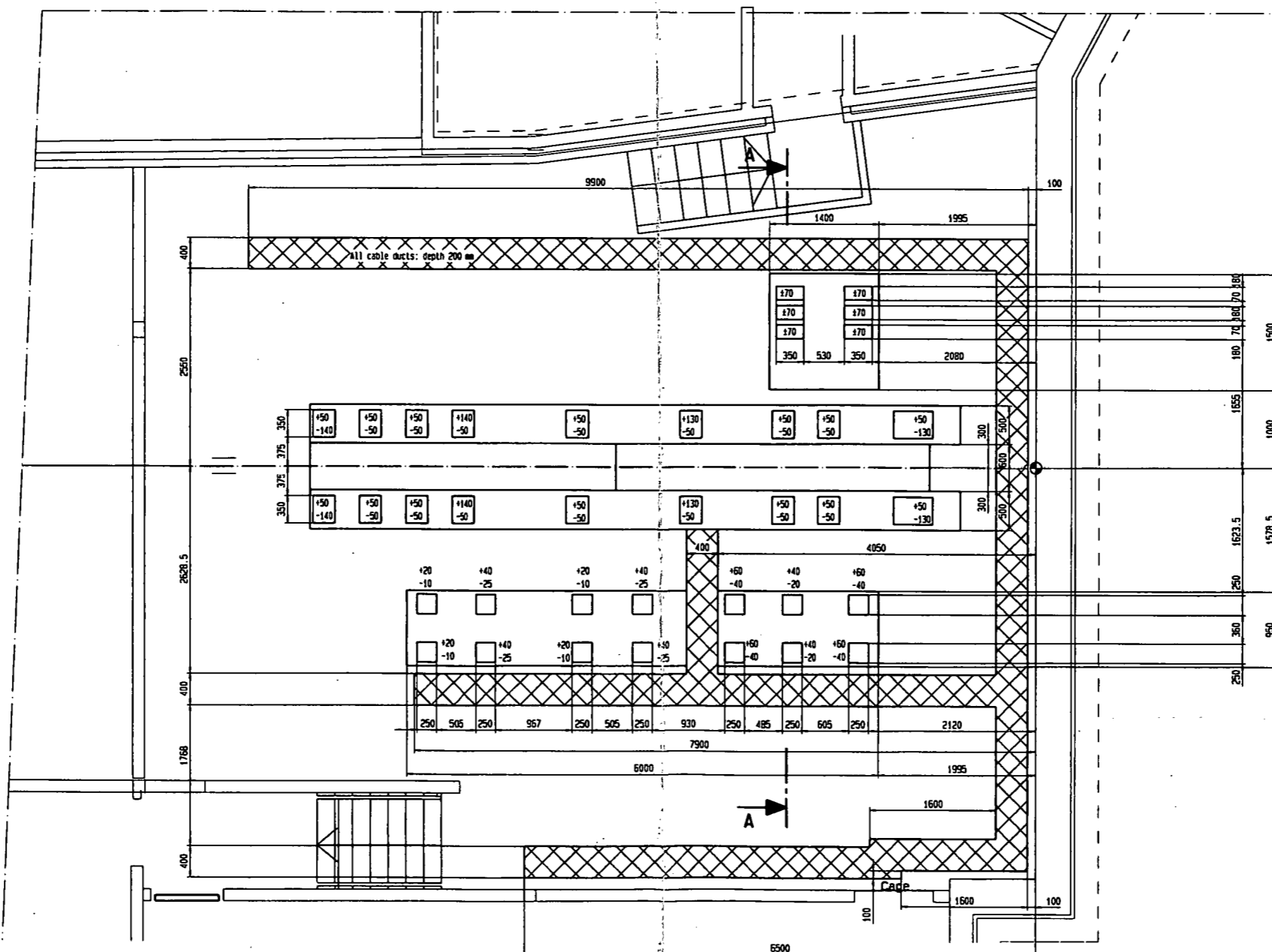
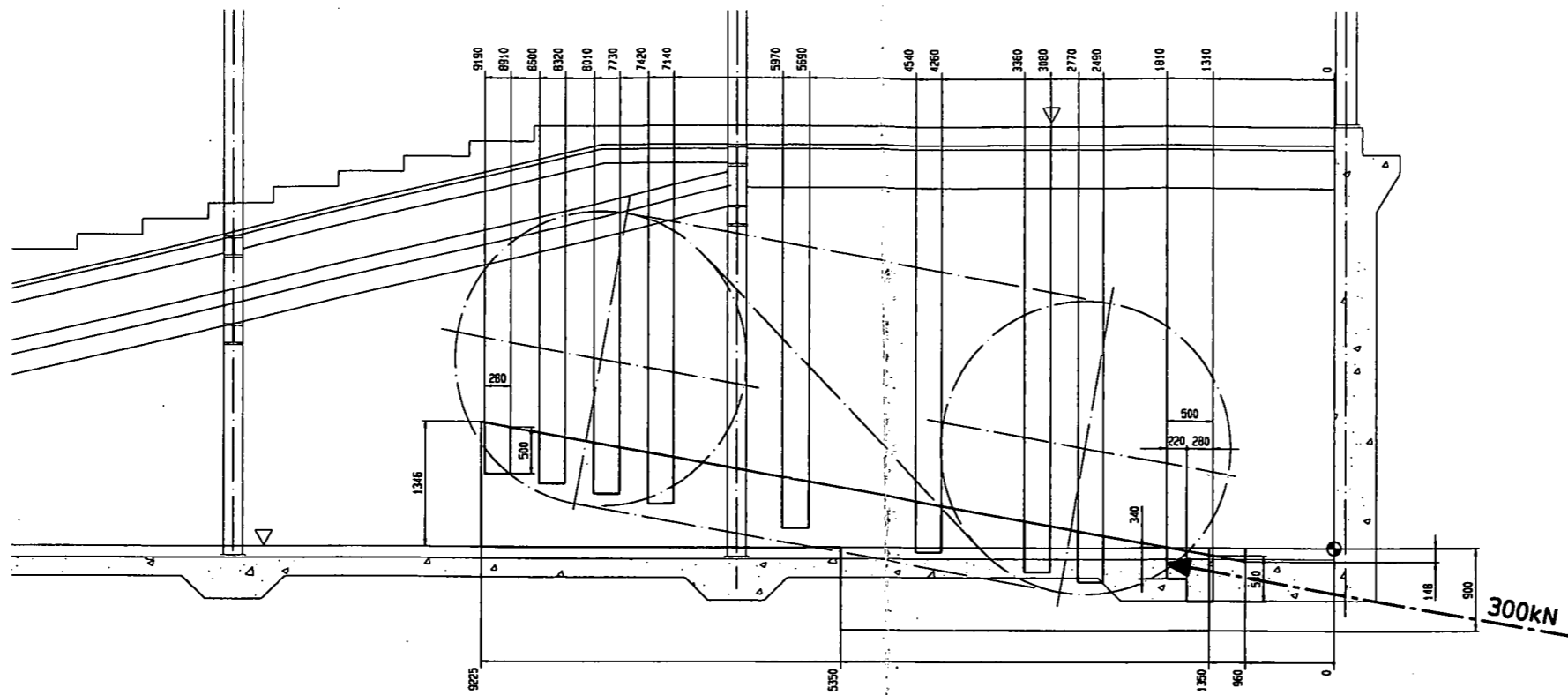
20801566

Index / Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
<small>Allgemeintoleranzen nach DIN ISO 2768/2 (Längen u. Winkel) General tolerances as per DIN ISO 2768/2 (lengths & angles)</small>			K	
<small>Allgemeintoleranzen nach DIN ISO 1300 (Längen u. Winkel) General tolerances as per DIN ISO 1300 (lengths & angles)</small>			F	
Maßstab / Scale: 1/2 Faktor: 0,707				Datum / Date: 1999-01-14 Name: ne
Anlage / Installation: _____ Auftrag / Order: _____				Gezeichnet: 2001-01-03 wie 2001-01-03 KONSTRUKTION KZ.: wie Datum / Date: 2000-04-06 Name: 07:59:14
Zentrifugalauslösung				Ursprung. Nr. / Original org. no.: 80000280N225000 Ident. Nr. / Ident. no.: 20800813
Zeichnungs Nr. / Drawing no.: 80000562N225000				Index:

VORROLL Seilbahnen AG

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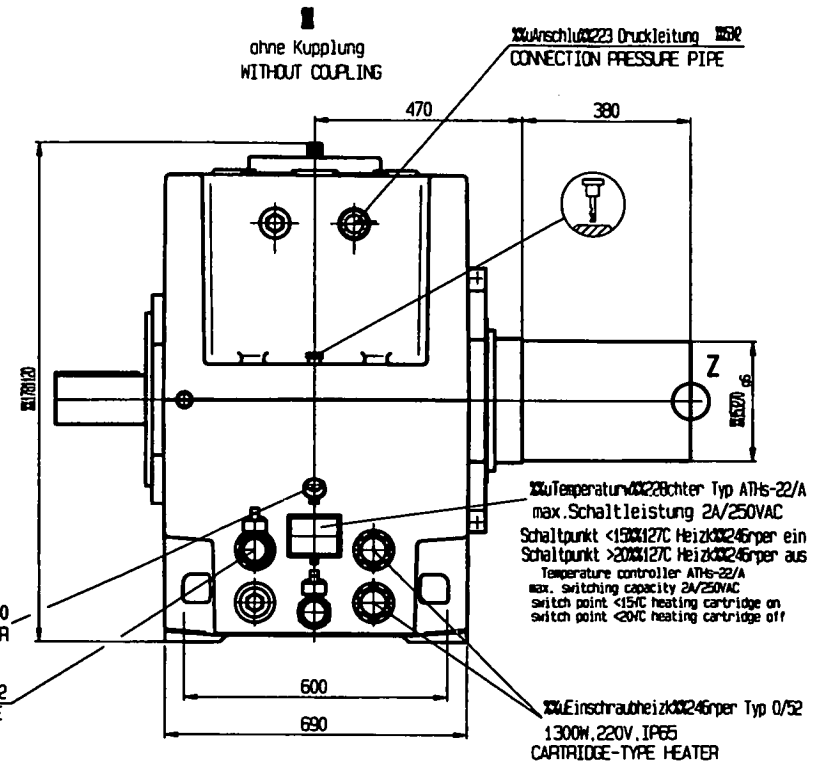
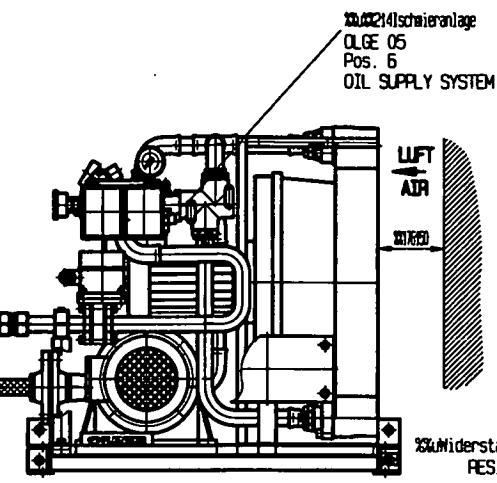
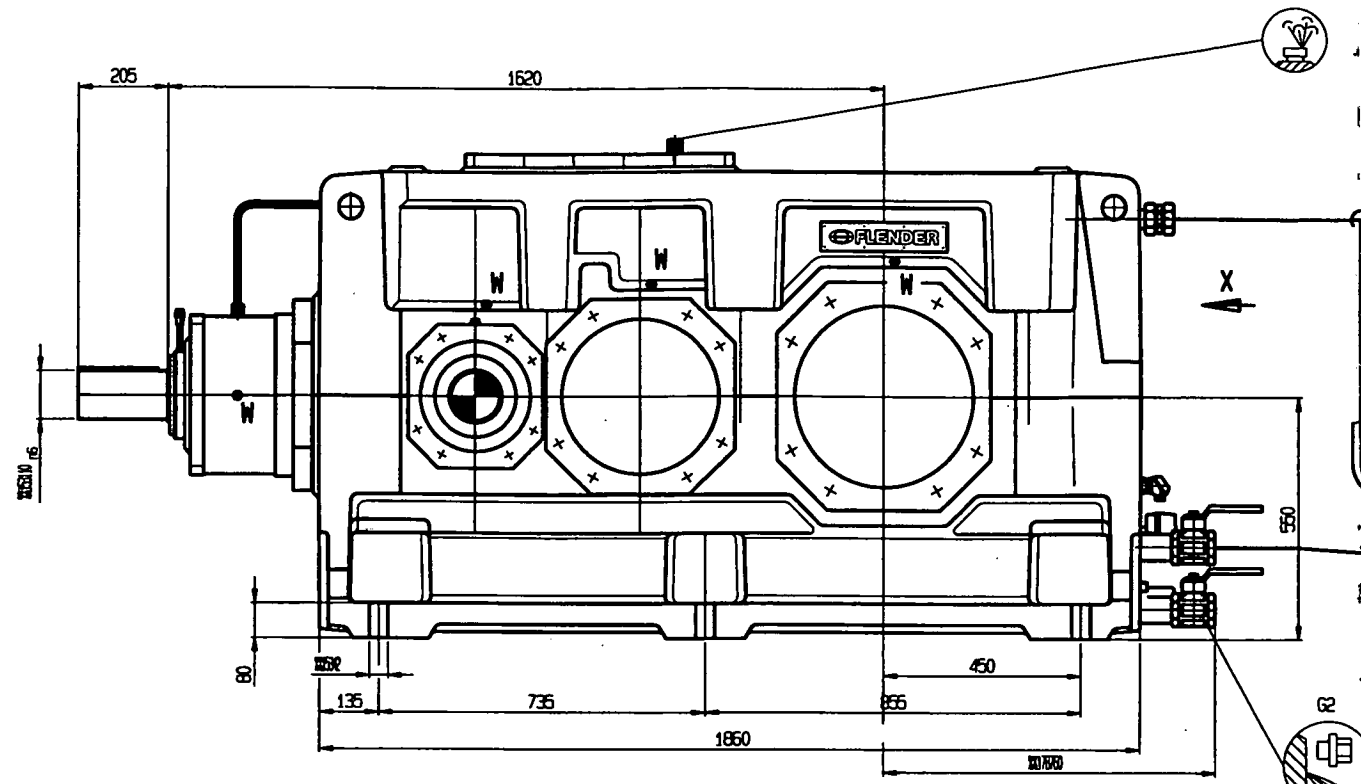
9-Klasse
9-class
C A2



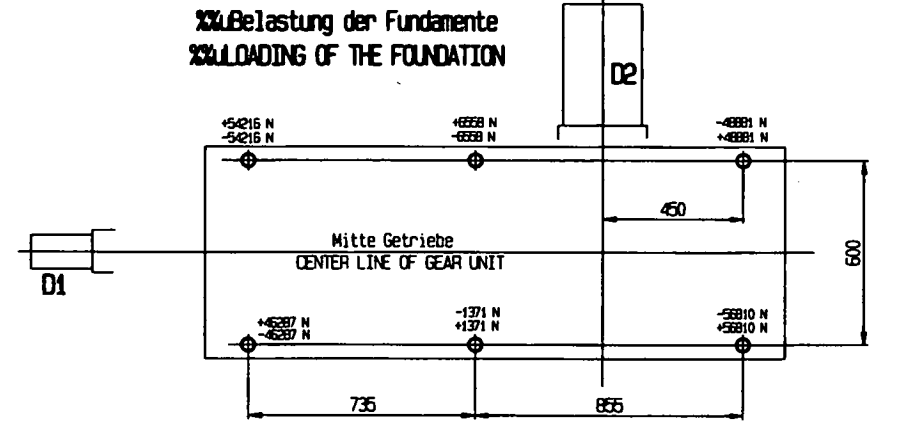
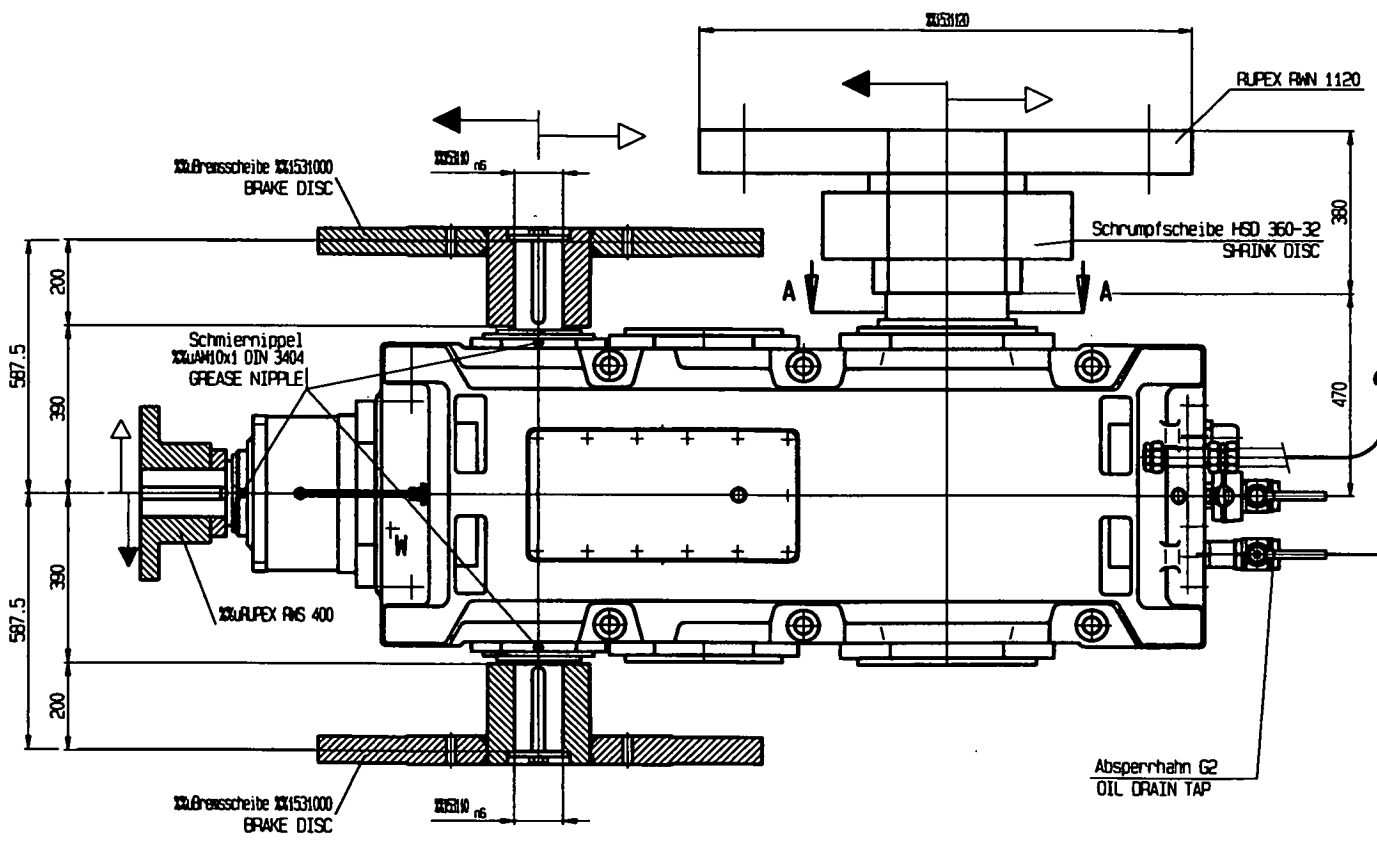
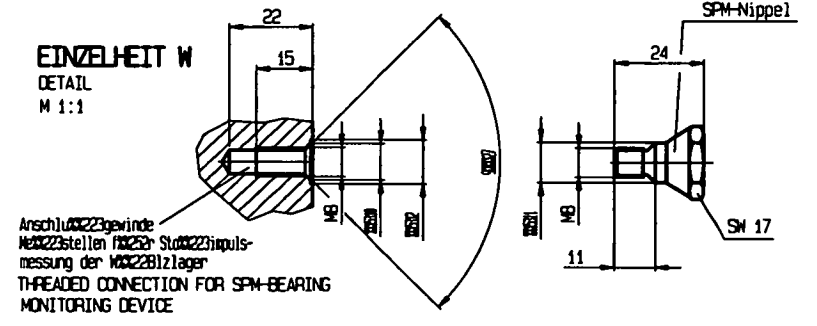
Recesses : rough surfaces
 All forces are given without factor of safety
 (without prestress forces of anchors)
 Forces in kN (per recess)
 + = pressure
 - = tension

SECTION A-A

Project / Drawing No.		Date		Scale	
1/25		2000-07-14		17.25:23	
Recess- and force plan		80005446/221003		a	
Doppelmayr Seilbahnen AG		Seilbahnen AG		10	



Achtung!
 Getriebe nur in Verbindung mit Schmieranlage betreiben.
 Mindest-Vorlaufzeit 3 min.
ATTENTION!
 The gear unit may be driven only together with the oil lubricating system.
 The oil lubricating system must be switched on three minutes before starting up the gear unit.

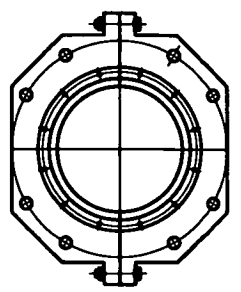


Max. Loads on the foundation:
 -Fv_max. = -54215 N
 Normal Force Fv < 0 → Foundation bolts under Tension
 Fv_max. = +56810 N
 Normal Force Fv > 0 → Foundation bolts under compression

Max. Fundament-Kräfte:
 -Fv_max. = -54215 N
 Normalkraft Fv < 0 → Abhebekraft des Fußes vom Fundament (Schraube wird zusätzlich belastet)
 +Fv_max. = +56810 N
 Normalkraft Fv > 0 → Druckkraft des Fußes auf das Fundament (Schraube wird entlastet)

Welle Shaft	D1 Antrieb Drive	DZ1	DZ2	D2 Abtrieb Output
Lager Bearing	32226 NU2230EC3	32324 NU15120/20	22334CC/W33 NU15170/30	183056 SL C3 NU15380/40
n /min	1563	1091	269.5	59.9

Zweitteiliger Lagerdeckel
 TWO-PART BEARING COVER



The purchaser is responsible for the provision of safety guards.
 Umlaufende Teile müssen von der Gefahr gegen unbeabsichtigtes Berühren gesichert werden! (Besitz technischer Arbeitsmittel)

Shaft ends with keyways and keys acc. to DIN 6885/1, and center, acc. to DIN 332, form DS.
 Wellenenden mit Nuten und Paßfedern nach DIN 6885/1 und Zentrierungen nach DIN 332, Form DS

Arrows show relative directions of rotation.
 Gleichartige Pfeile kennzeichnen die Abtriebsrichtungen!

SERIAL NO.	FABRIK-NR.	405.003.500-005-1...1
TYPE	BAUART	839H
SIZE	BEWEISE	18
DESIGN	ABFRIEDRING	A
POWER RATING	LEISTUNG	385 kW
INPUT SPEED	ANTRIEBSDREHZAHL n1	1563.3 1/min
OUTPUT SPEED	ABTRIEBSDREHZAHL n2	59.9 1/min
EXACT RATIO	ÜBERSETZUNG	25.936
OIL QUANTITY	ÖLMENGE	2078 30 l
OIL VISCOSITY	ÖL-VISKÖSITÄT	ISO VG 220 (LP-Öl) DIN 51517/3

405.003.500

FLENDER
BOCHOLT

MASSZUG B3SH 18_3
DIMENSION DRAWING

61M8805897_info

5500

1:8.5

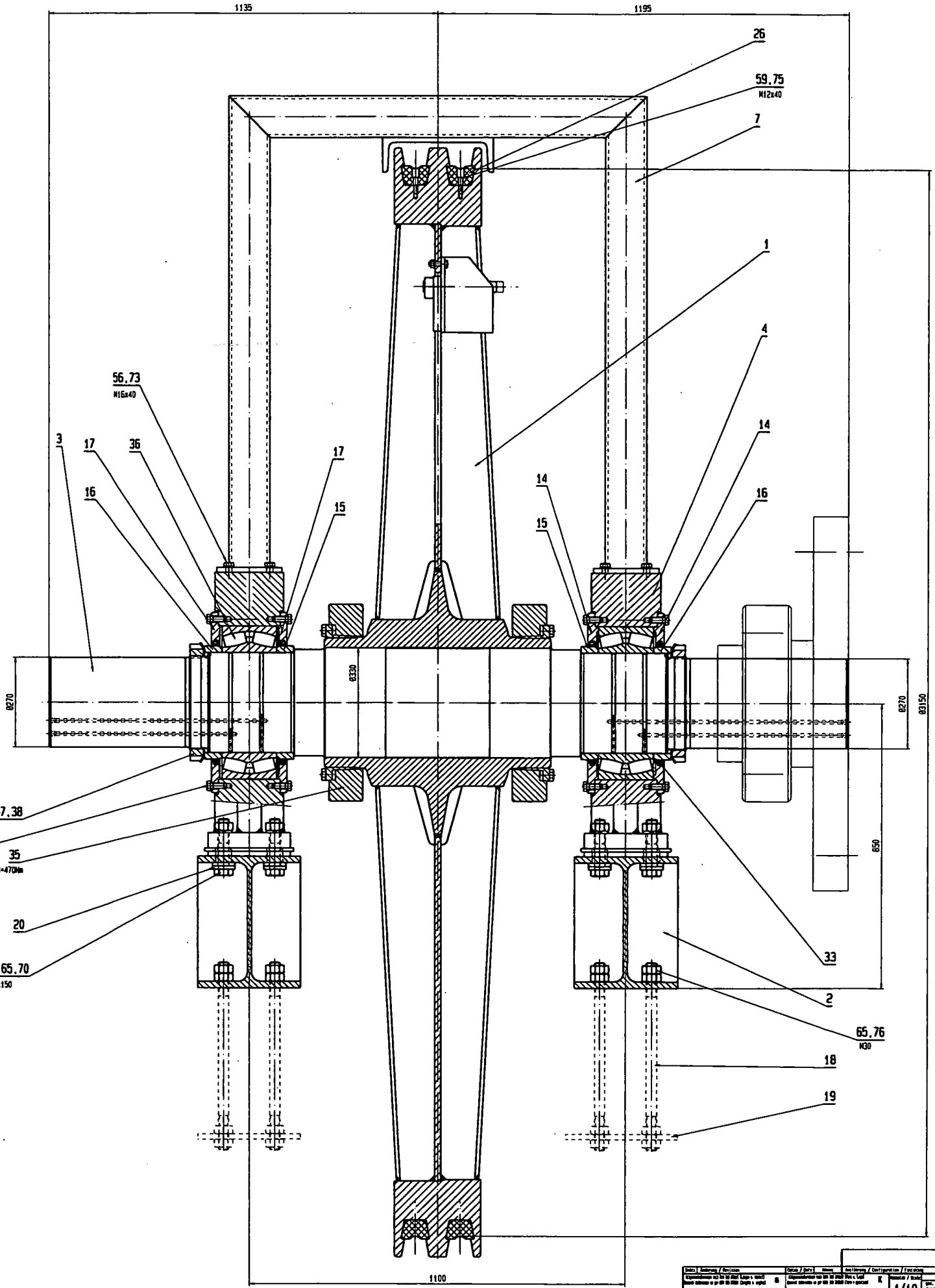
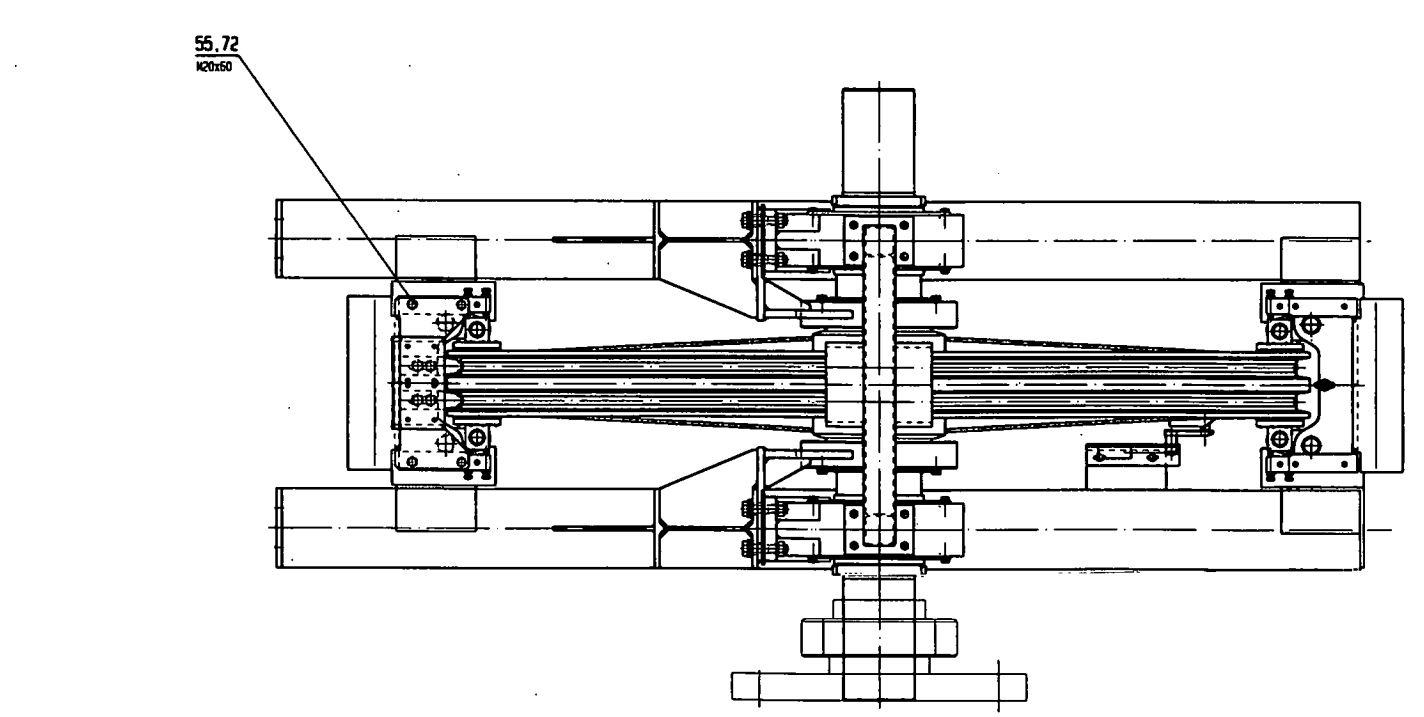
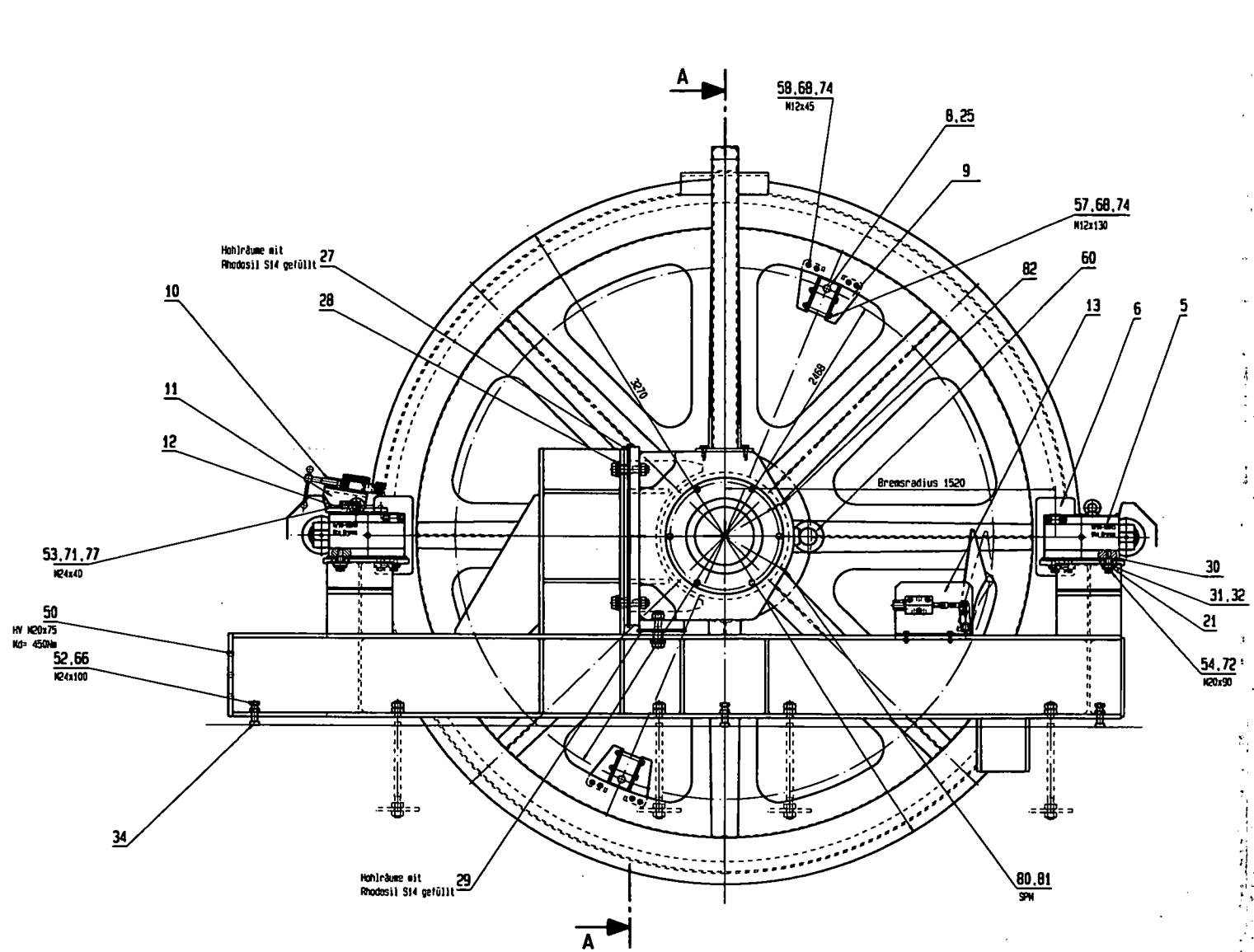
2000-05-24

2000-05-24

2000-05-24

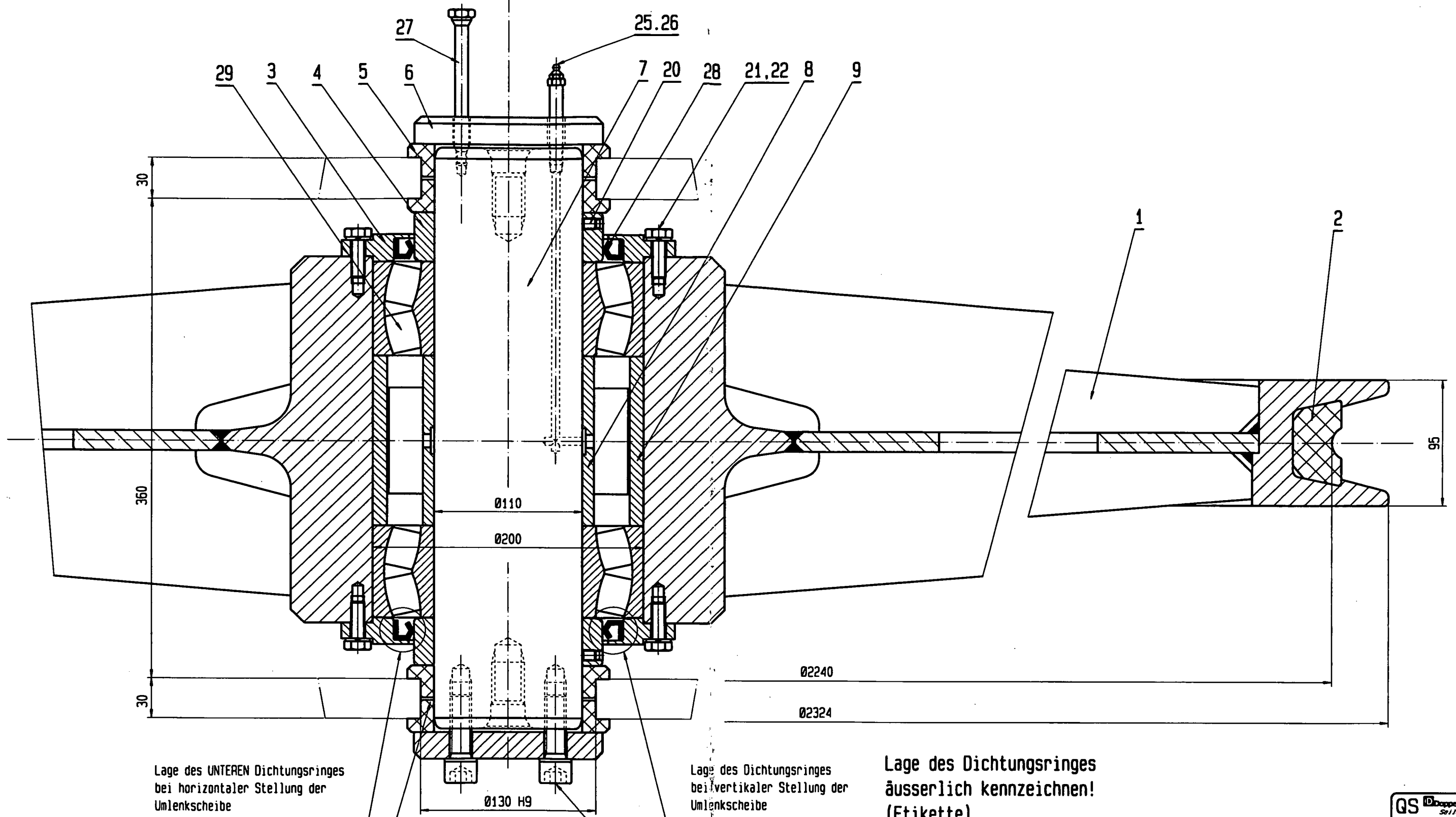
0290

Made in mm



SCHNITT A-A
M=1.5

2011762		1/10		2007-07-03		13:42:11	
Antriebscheibe ø3150 komplett				80005672225000			
Doppelmayr Seilbahnen AG				B 10			

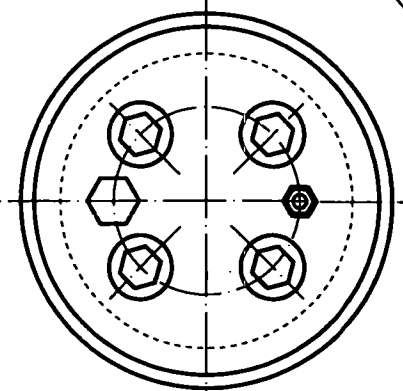


Lage des UNTEREN Dichtungsringes bei horizontaler Stellung der Umlenkscheibe

Lage des Dichtungsringes bei vertikaler Stellung der Umlenkscheibe

Lage des Dichtungsringes äusserlich kennzeichnen! (Etikette)

Hohlräume mit RODORSIL füllen



QS **Doppelmayr** Seilbahnen
 DATUM : 28.03.2000
 VISUM : KS

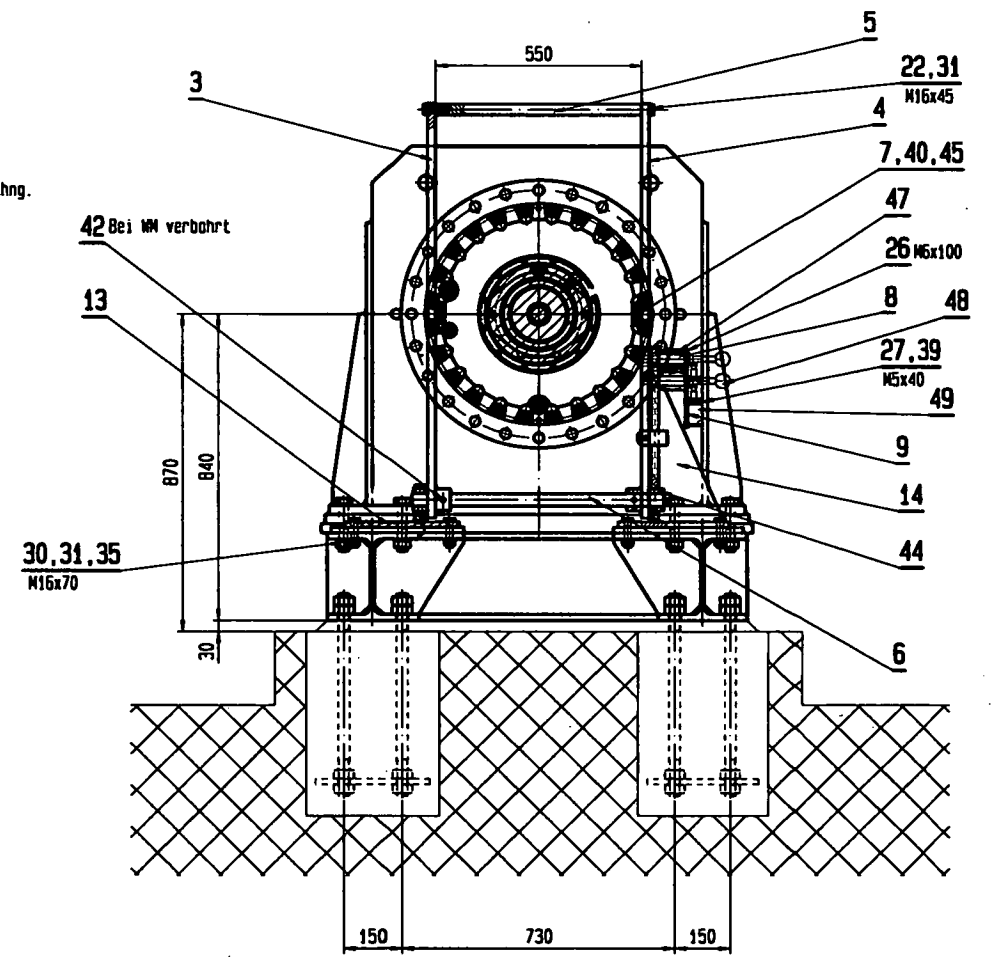
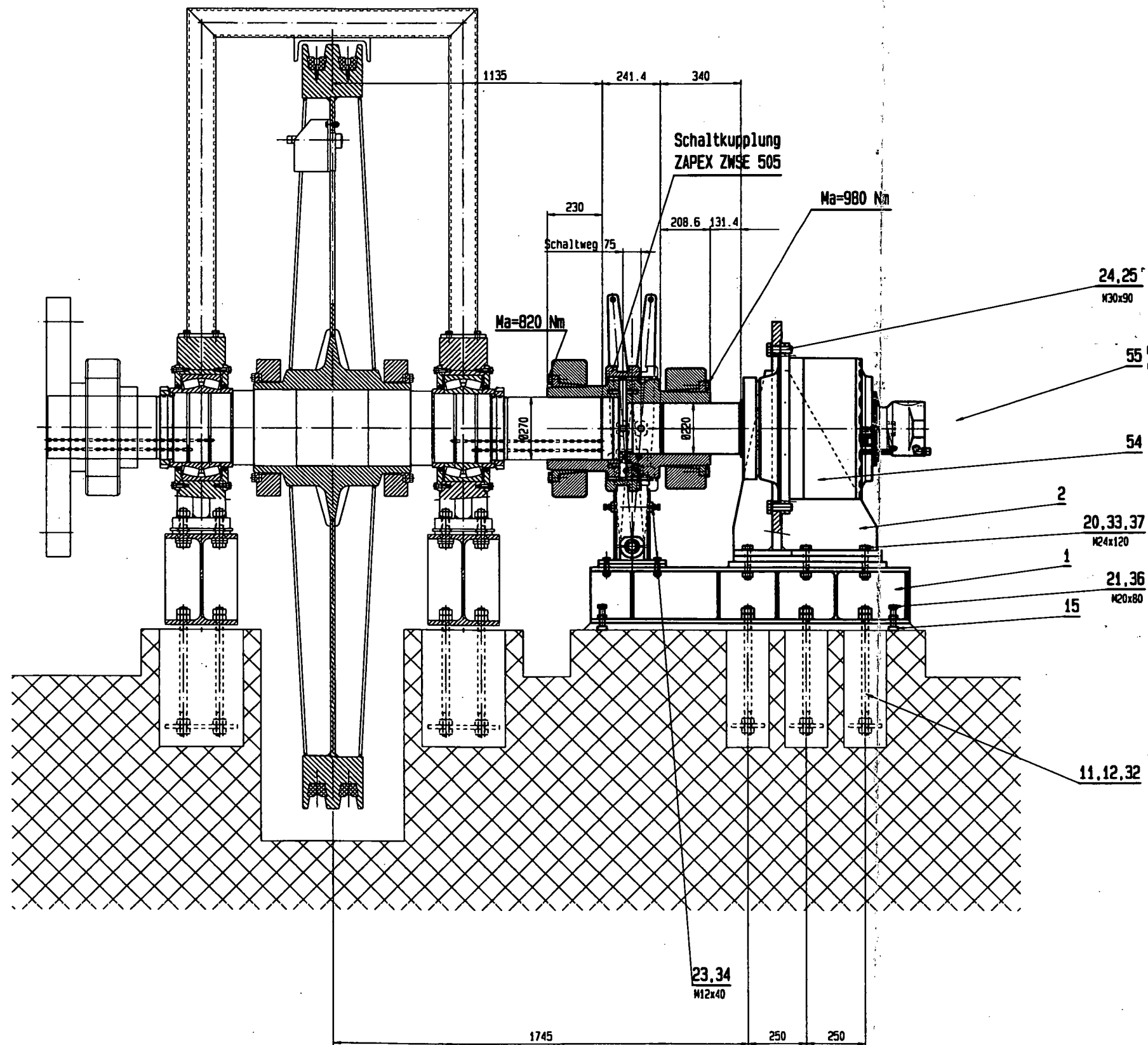
20812030

Index / Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
Allgemeine Toleranzen nach DIN ISO 2768/1 (Lage u. Winkel) General tolerances as per DIN ISO 2768/1 (tolerances & angles)			K	
Allgemeine Toleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form & position)			F	
Allgemeine Toleranzen nach DIN EN ISO 13269 (Lage u. Winkel) General tolerances as per DIN EN ISO 13269 (tolerances & angles)			B	
Allgemeine Toleranzen nach DIN EN ISO 13269 (Form u. Lage) General tolerances as per DIN EN ISO 13269 (form & position)			F	
Anlage / Installation			X	
Auftrag / Order			Stück / Copies	
Maßstab / Scale 1/2				Datum / Date 2000-03-28 via
Gezeichnet: 2001-01-03 2001-01-03				Datum / Date 2000-09-22 13:39:41
Ursprung: Nr. / Original drawing no.				Ident. Nr. / Ident. no.
Zeichnungs Nr. / Drawing no. 80005635N223700				Index

Doppelmayr Seilbahnen AG

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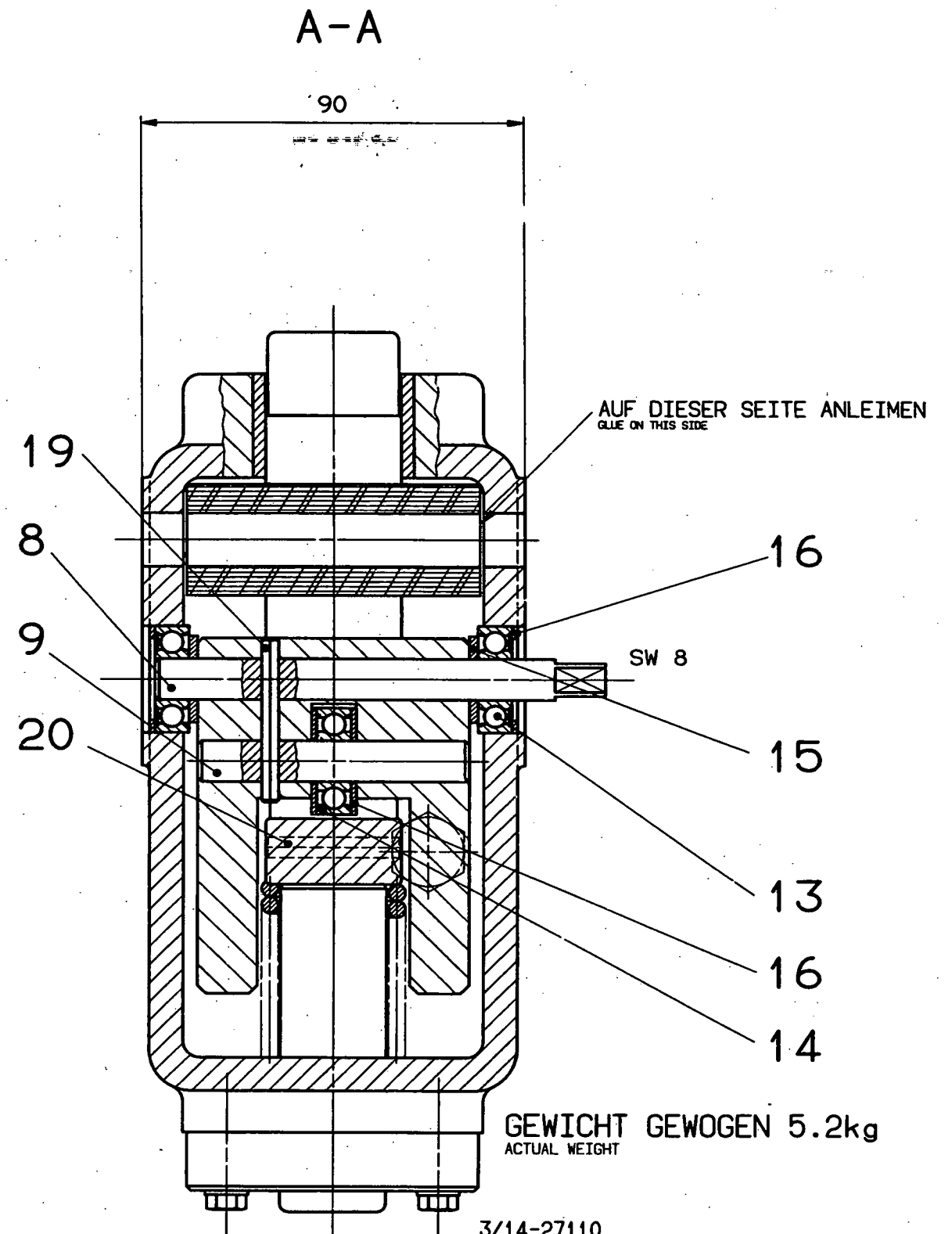
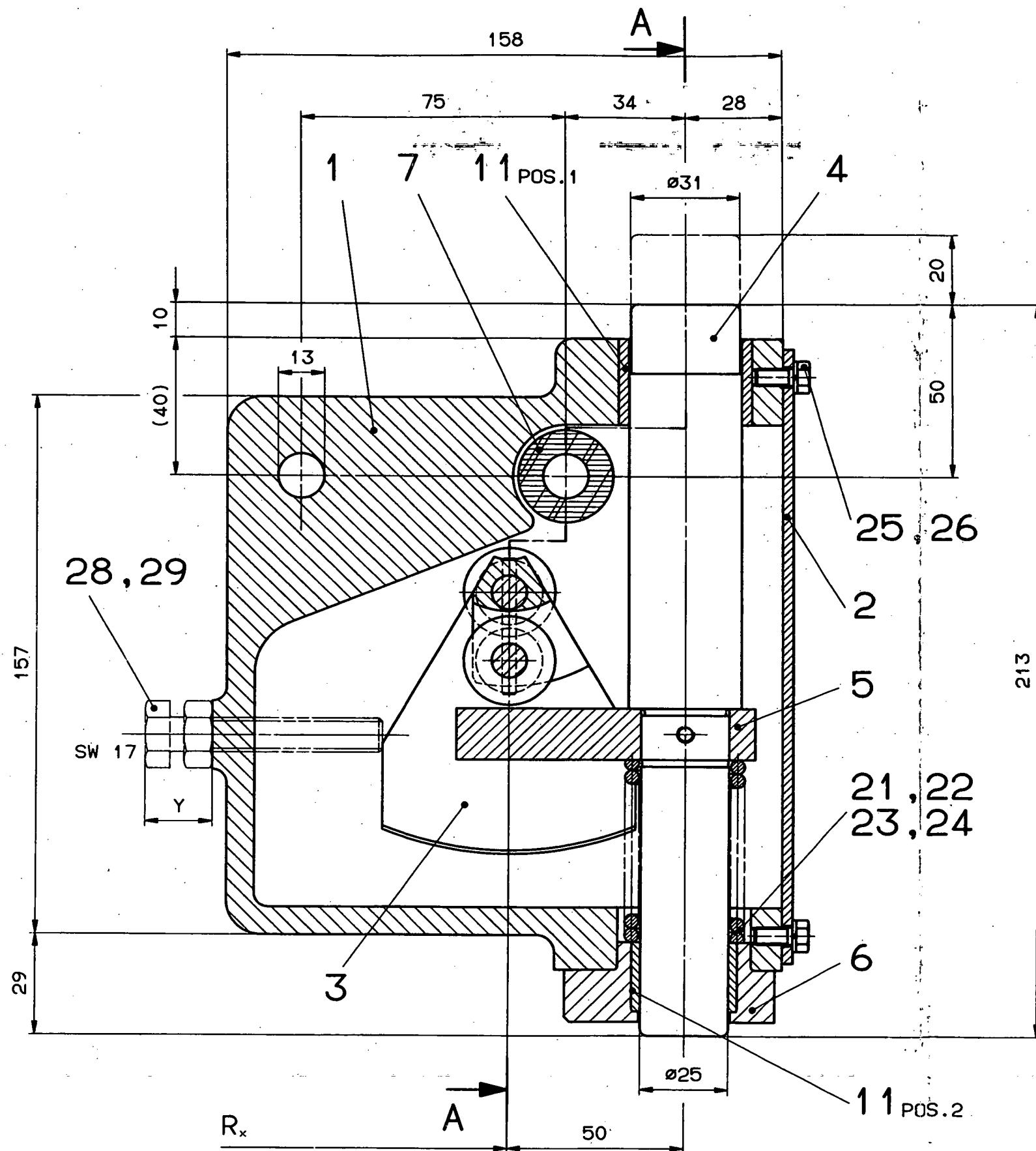
D-Klasse
 0-Klasse
B A2



GS **Doppelmayr**
DATUM : 05.07.00
VISUM : KS

20812000

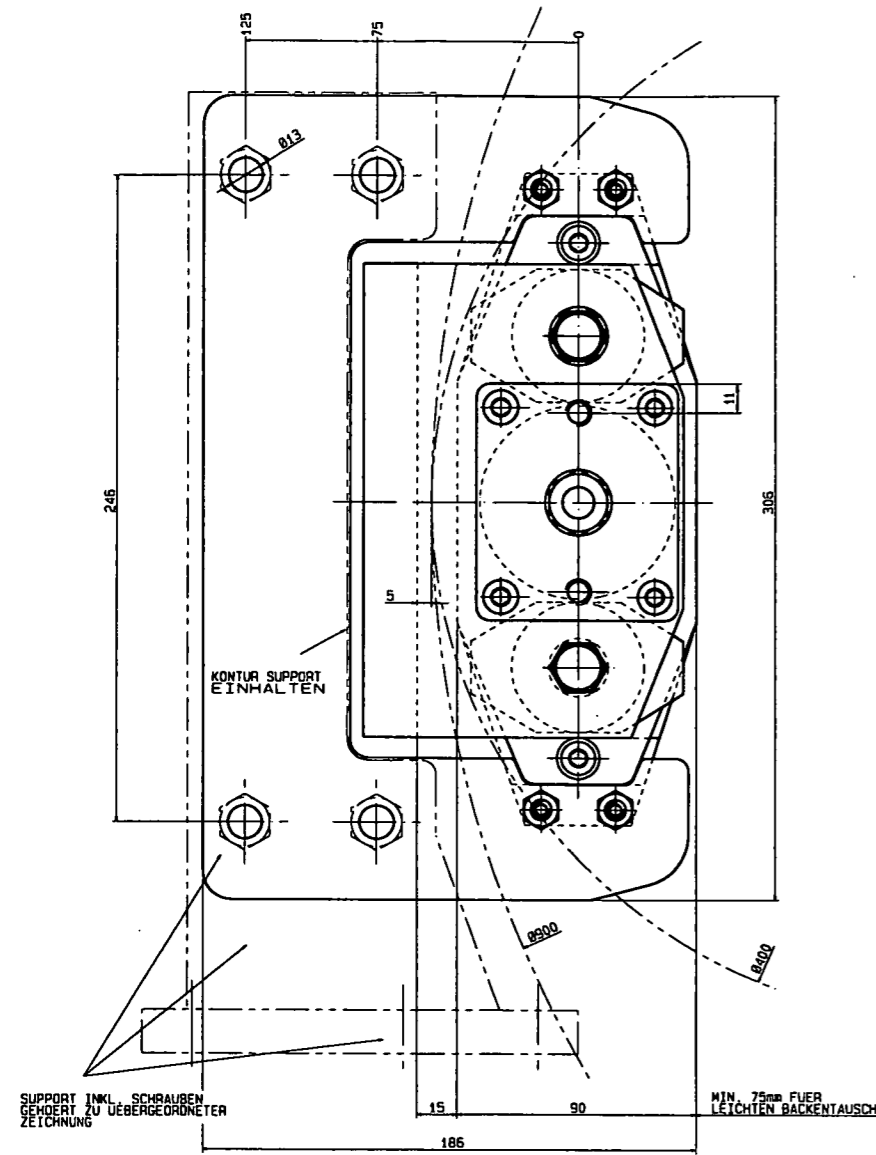
Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Zeichnung	Blatt Nr. / Sheet no.
1/10	2000-07-05			
Hilfsantrieb komplett				
80005770N225300				
Doppelmayr Seilbahnen AG				



KUGELLAGER, BUECHSEN UND BOLZEN MIT
 ASEOL SILITEA 4-018 LEICHT EINFETTEN
 BALLBEARING, BUSHING AND BOLTS GREASE WITH ASEOL SILITEA 4-018

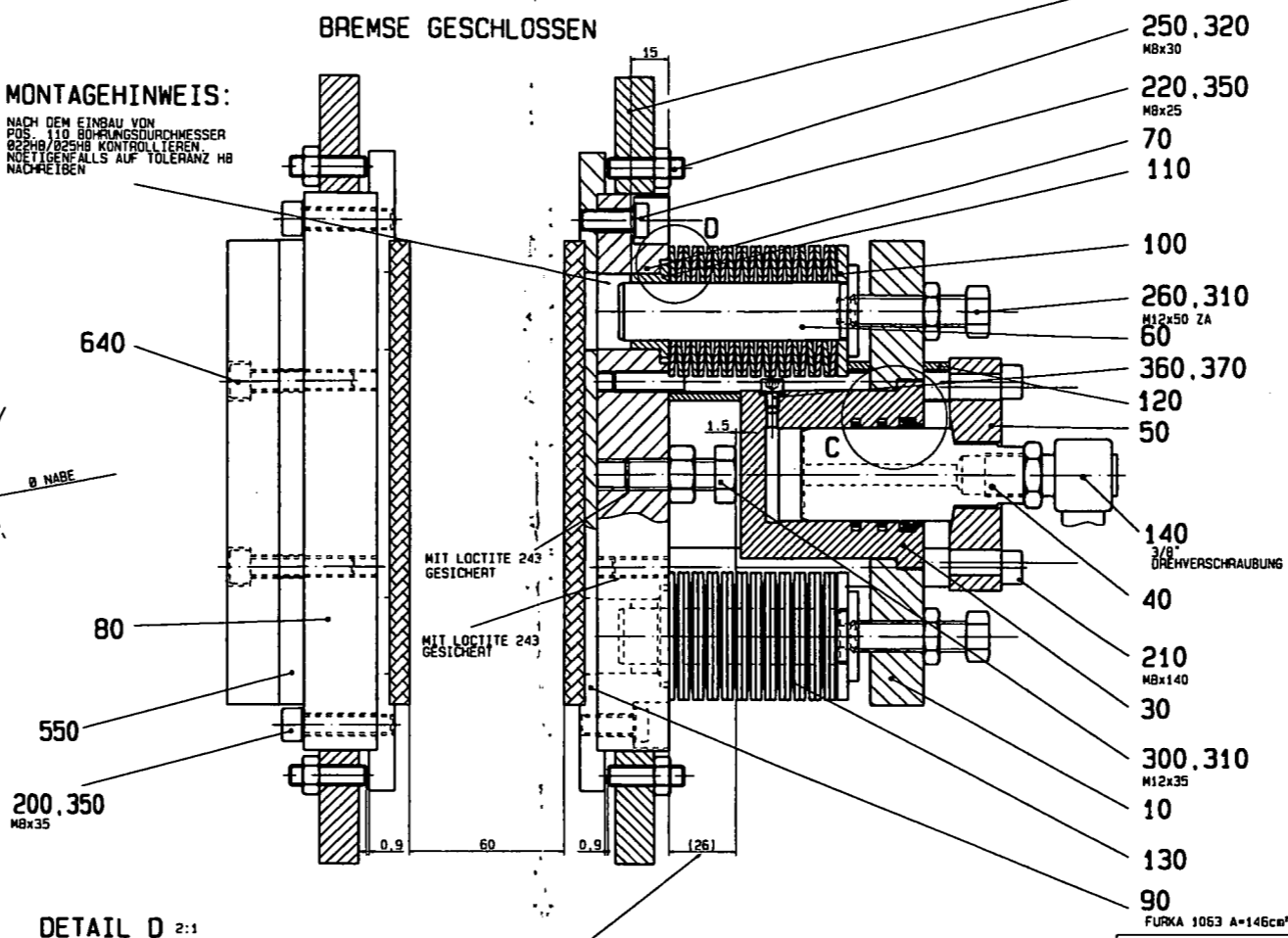
Bei Massen ohne Toleranzen oben gelten folgende zulässige Abweichungen: Spanen/Läufen DIN 7169 Schweißen DIN 8570 B	Index	Aenderung	Dat.	Vis.						
	(A)	GEHAEUSE GEANDERT	05.12.72	HI						19.04.95
	(B)	GEHAEUSE GEANDERT	18.06.85	MN						12.02.97
	(C)	DS FORDERNEN NACHTRAGEN	07.11.88	MR						
W-stoff										
Mod.Nr.										
Aehnlich wie od. stammt von										
Diese Zeichnung ist unser Eigentum. Jede Vervielfältigung, Verwendung oder Mitteilung an dritte Personen ist strafbar und wird gerichtlich verfolgt.										

CENTRIFUGAL SWITCH		Masstab	504	Q-Klasse	C	RM-Nr.	707341
ZENTRIFUGALSCHALTER		1:1	Ersetzt durch:				
vonRoll SEILBAHNEN AG		Ersetzt fuer:					
		2/10-04926					

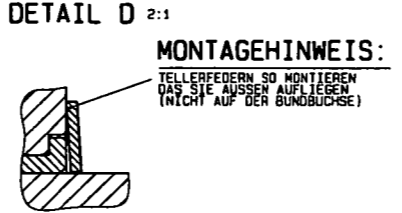


SUPPORT INKL. SCHRAUBEN GENDERT ZU UEBERGEORDNETER ZEICHNUNG

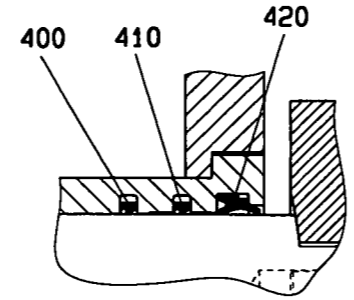
MIN. 75mm FUER LEICHTEN BACKENTAUSCH



MONTAGEHINWEIS:
 NACH DEM EINBAU VON POS. 110 BOHRUNGSDURCHMESSER 02240/02540 KONTROLLIEREN, NOTFALLS AUF TOLERANZ HB NACHREIBEN



DETAIL C 2:1



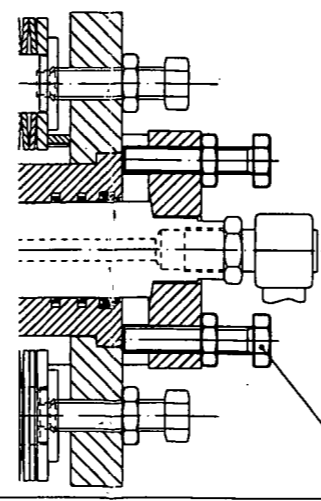
ACHTUNG:
 VOR FUNKTIONSKONTROLLE SCHRAUBE POS. 300 AUF WASSER 26mm EINSTELLEN

MONTAGEHINWEISE:
 POS. 30 SO DREHEN, DASS POS. 360 LEICHT ZUGAENGLICH IST
 ANZUGSMOMENT POS. 210 = 12Nm
 KUGELSLITZ ZWISCHEN POS. 40 UND POS. 50 SCHMIEREN
 TELLERFEDERN VOR MONTAGE MIT ULTRATHERM SCHMIEREN

HINWEIS FUER AM:
 DIE IM WERK AUSGERICHTETE BREMSE NICHT MEHR VOM SUPPORT LOESEN (ERGIBT PRO SEITE 0,75mm BACKENSPIEL)
 FEDERPAKETLAENGE X DARF IM ZUSTAND BREMSE GEÖFFNET 56mm NICHT UNTERSCHREITEN
 1,5mm ZWISCHEN POS. 30 UND POS. 300 IM ZUSTAND BREMSE GESCHLOSSEN EINSTELLEN (ERGIBT PRO SEITE 0,75mm BACKENSPIEL)
 0,5mm ZWISCHEN POS. 80 UND POS. 250 IM ZUSTAND BREMSE GESCHLOSSEN EINSTELLEN (IM ZUSTAND GEÖFFNET SPIEL VON CA. 0,3mm ÜBERPRÜFEN)

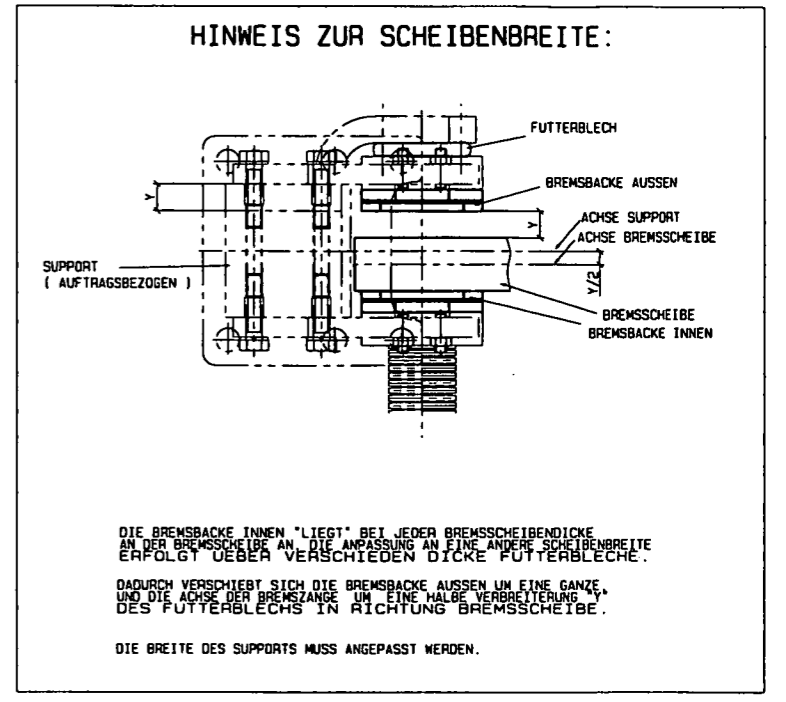
BACKENSPIEL:
BREMS-EINWITTLUNG:

BETRIEBSBREMSE MANUELL ÖFFNEN



Achtung:
 VOR INBETRIEBNAHME SIND DIE SCHRAUBEN POS. 700 IMMER ZU ENTFERNEN UND AM VORGESEHENEN ORT ZU PLAZIEREN (SIEHE ZCHN. 80004038N225100)

700.710 Schraubenkopf gelb



DIE BREMSBACKE INNEN "LIEGT" BEI JEDER BREMSSCHEIBENDICKE AN DER BREMSSCHEIBE AN, DIE ANPASSUNG AN EINE ANDERE SCHEIBENBREITE ERFOLGT ÜBER VERSCHIEDENE DICKE FUTTERBLECHE.
 DADURCH VERSCHIEBT SICH DIE BREMSBACKE AUSSEN UM EINE GANZE UND DIE AXCHSE DER BREMSZANGE UM EINE HALBE VERBREITERUNG DES FUTTERBLECHS IN RICHTUNG BREMSSCHEIBE.
 DIE BREITE DES SUPPORTS MUSS ANGEPA SST WERDEN.

TYPENAUSWAHL

(kN)

BREMSEKRAFT (BREMSDURCHMESSER) RESTDRUCK INBEGRIFFEN	BREMSTYP			P Q R S U				
	5	C	VI	04	04	7,8	08	27
7				07	05	9,6	07	20
6				01	01	4,9	07	20
5				06	06	6	08	20
4				01	09	6,7	02	20
4				06	04	9,7	06	20
3				03	09	6	07	20
3				02	08	7,5	00	23
2				06	07	9,8	08	17
2				03	09	4,4	07	27
1				07	09	6,6	01	19
0								

AUSLEGUNGSHINWEIS
 BREMSE SO AUSLEGEN, DASS DIE FEDERPAKETLAENGE X 58-67mm BETRÄGT
 EINE UNGERADE TELLERFEDERANZAHL WÄHLEN (SIEHE DETAIL D)

FEDERPAKET	KOLBEN
1 50x25.4x1.5 27 Stk.	A 30 mm 7.07 cm ²
2 45x22.4x1.75 27 Stk.	B 36 mm 10.18 cm ²
3 50x22.4x2 23 Stk.	C 42 mm 13.85 cm ²
4 50x22.4x2 25 Stk.	
5 50x25.5x2.5 19 Stk.	

Bestimmung der Supportbreite

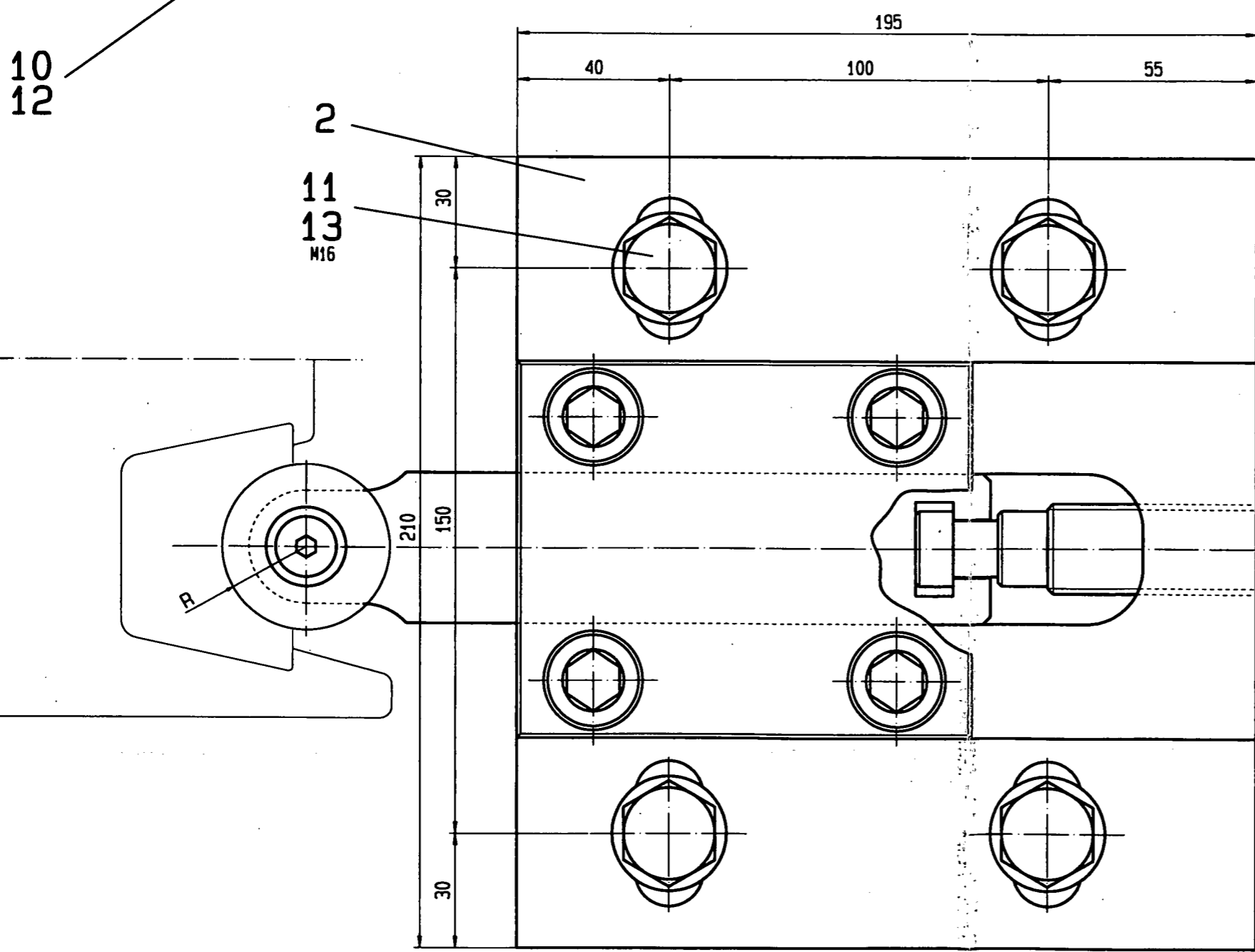
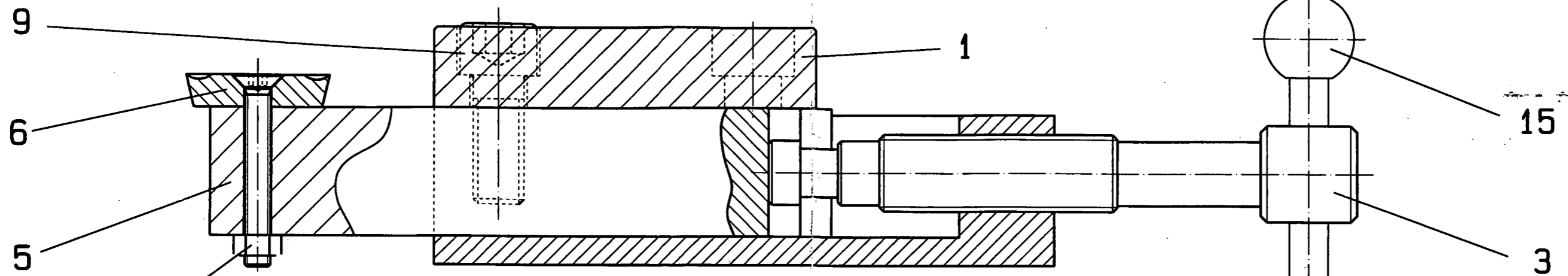
Brems-scheibenbreite	Supportbreite B	BESTEHENDE SUPPORTE ID.-NR.	ZEICHN.-NR.
70	110	2080xxxx	8000xxxxN225101
60	100	2080xxxx	8000xxxxN225101
50	90	20802202	80000977N225101
40	80	20803293	80001459N225101
30	70	20801245	80000554N225101
25	65	20800524	80000121N225101

Scheibenbreite

10-Nummer	25	30	40	50	60	70
1	2030001	20801892	20802383	20802405	20802393	20802399
2	2030002	20802379	20802384	20802399	20802394	20802400
3	2030003	20802380	20802385	20802390	20802395	20802401
4	2030004	20802381	20802386	20802391	20802396	20802402
5	2030005	20801927	20802387	20802392	20802397	20802403
6	2030006	20802382	20802388	20801894	20802398	20802404

GEZEICHNET:
 TYP: 1V
 SCHEIBENBREITE: 60
 ID.NR.: 20802396

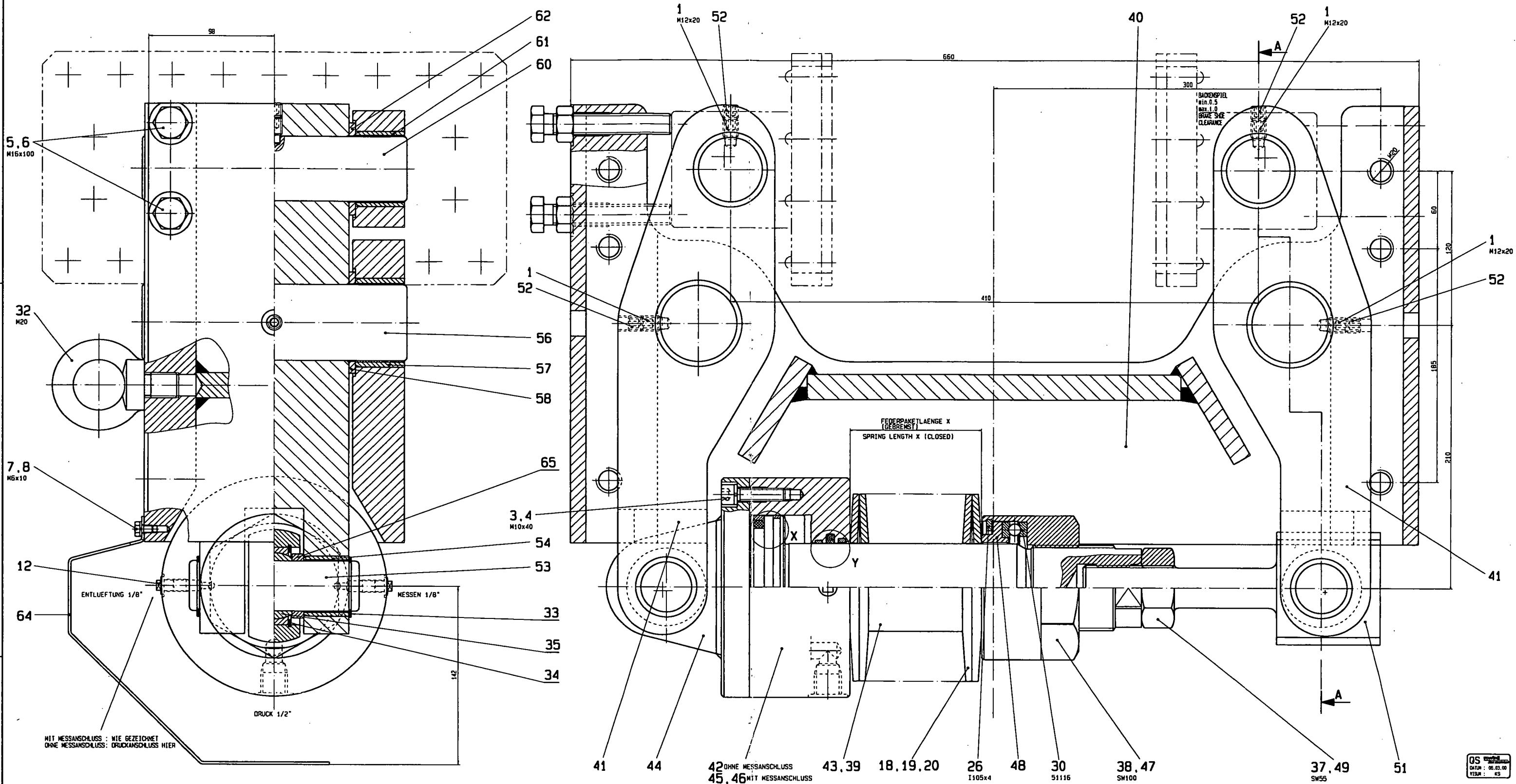
0/15-00990
 Service brake
BETRIEBSBREMSE 10kN
 vonRoll SEILBAHREN AG
 0/16-01900



Rillen ø	R	ID-Nr.
30	15	20802058
32	16	20803679
34	17	
36	18	20803680
38	19	
40	20	20803681
42	21	20803682

20804805 Ausdrehapparat ohne Platte Pos. 6

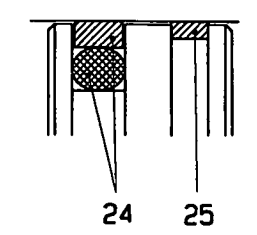
Bei Massen ohne Toleranzangaben gelten folgende zulässige Abweichungen: Spanen/Umformen DIN 7188 a Schweißen DIN 8570 B	<input type="checkbox"/>	Aenderung	<input type="checkbox"/>	Det.	<input type="checkbox"/>	Vis.	<input type="checkbox"/>			09.07.93	GREBENSCHKE	
	<input type="checkbox"/>									09.07.93	GREBENSCHKE	
	<input type="checkbox"/>									02.07.98	ne	
	<input type="checkbox"/>											
M-stoff												
Mod.Nr.												
Aehnlich wie od. stammt von												
2/22-08562												
Diese Zeichnung ist unser Eigentum. Jede Vervielfältigung, Verwendung oder Mitteilung an dritte Personen ist strafbar und wird gerichtlich verfolgt.	Groove cutting device Mandrinadora AUSDREHAPPARAT								Massstab 1:1	Bgr.-Nr. 505	Q-Klasse C	545975
	vonRoll SEILBAHNEN AG								Geplattet: 2001-01-03 via	Ersetzt durch: Ersetzt fuer:		
									2/22-09208			



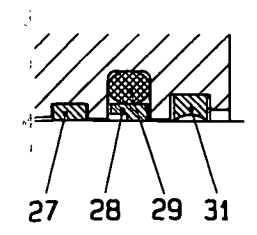
HIT MESSANSCHLUSS : WIE GEZEICHNET
OHNE MESSANSCHLUSS : DRUCKANSCHLUSS HIER

FEDERPAKETLAENGE X
(GEBREMST)
SPRING LENGTH X (CLOSED)

DETAIL X (2.5:1)

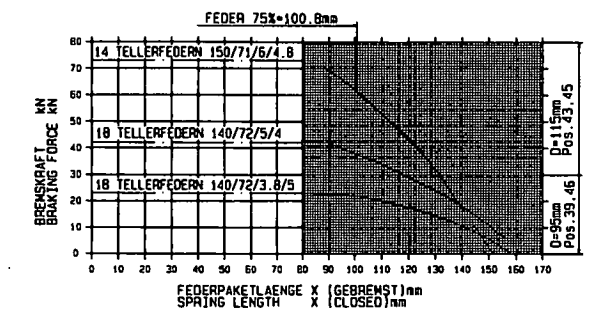


DETAIL Y (2.5:1)



BREMSKRAFT (kN) ??0.35

JEDES FEDERPAKET NUR IM DICK AUSGEZEICHNETEN BEREICH VERWENDEN
EACH SPRING MUST ONLY BE USED ON THE THICK LINE PORTION OF THE CURVE

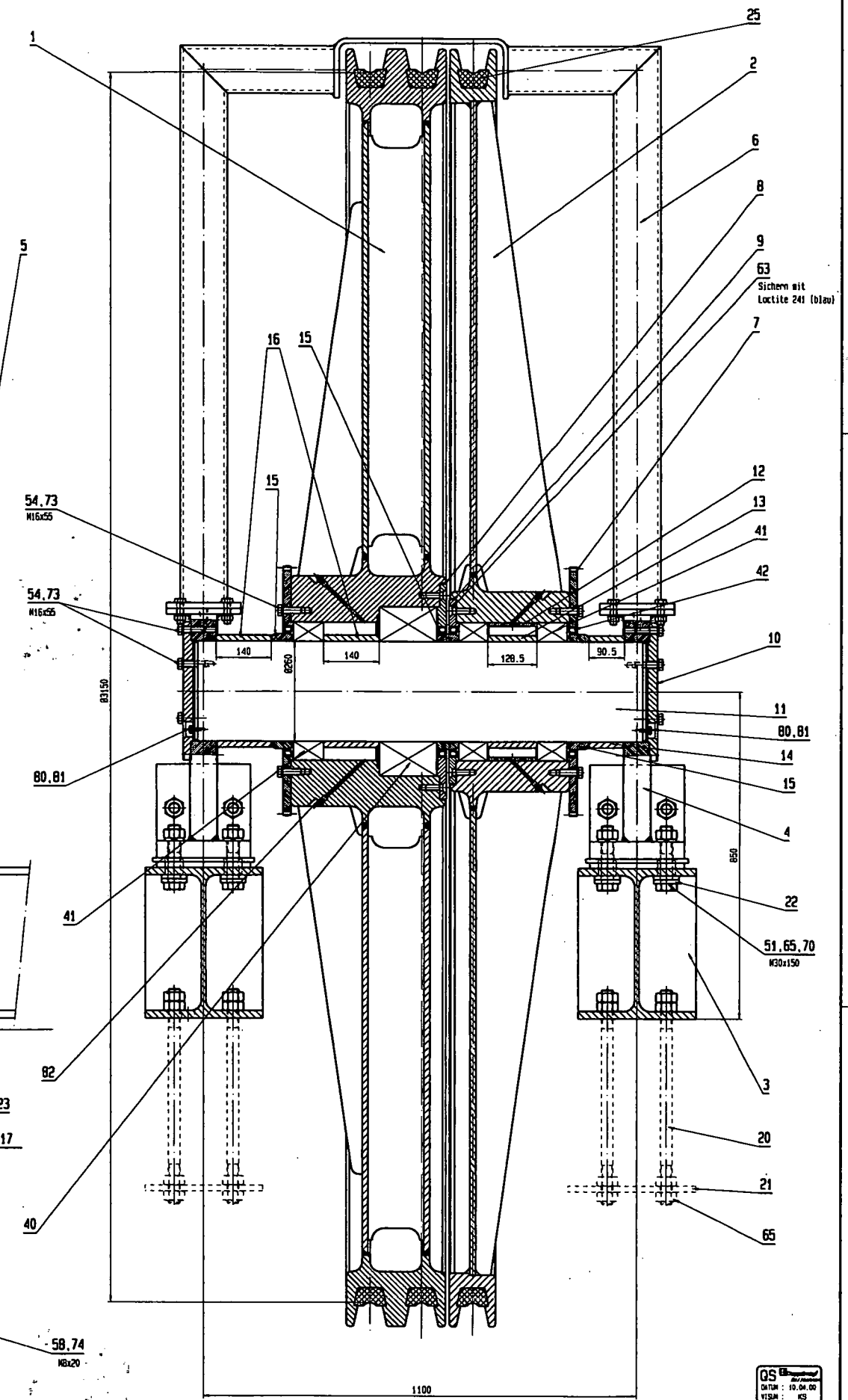
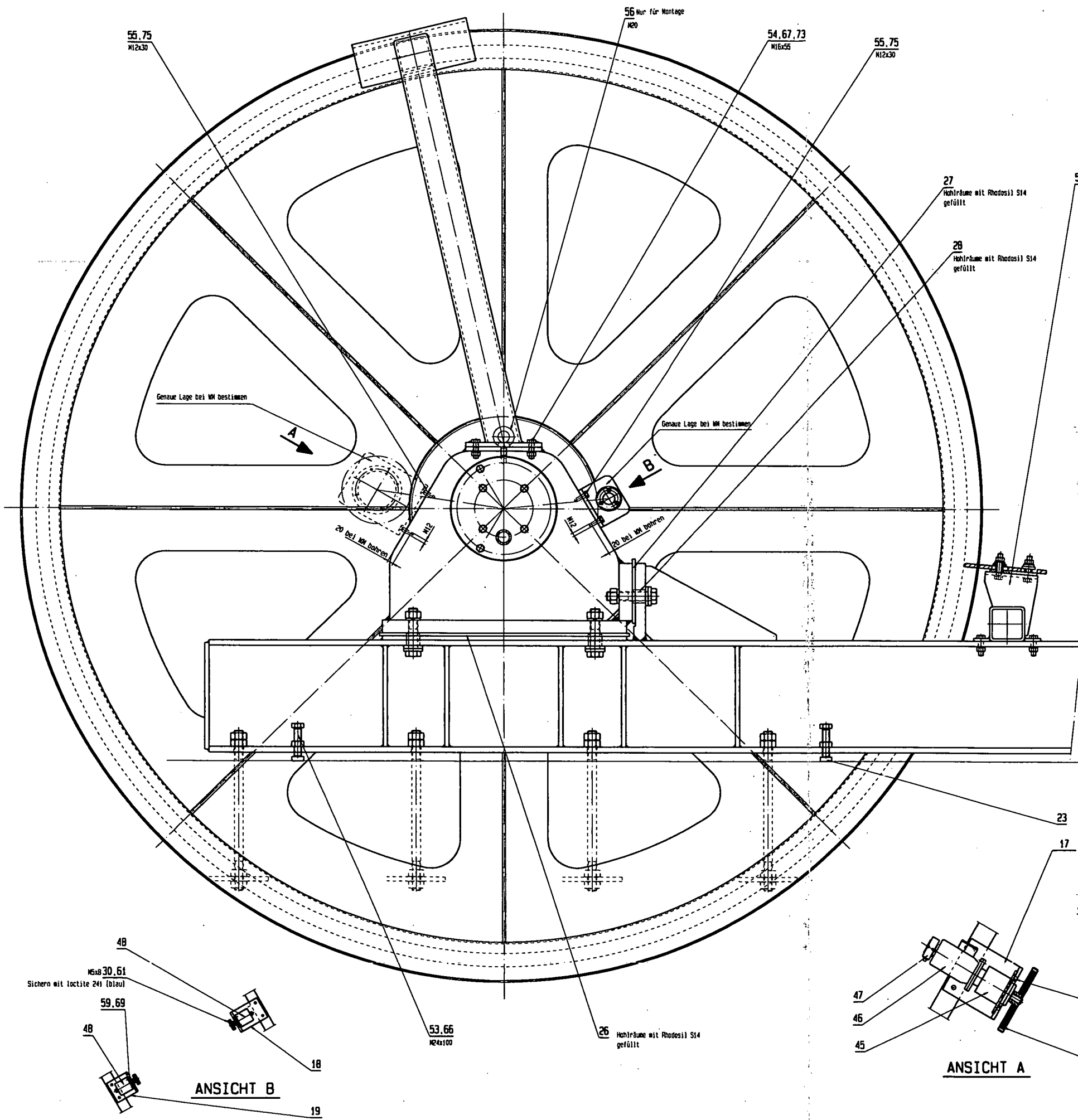


ZYLINDERFLAECHE $A=65.38\text{cm}^2$ (Pos. 24, 42, 43, 45)
 $A=32.40\text{cm}^2$ (Pos. 23, 39, 46)

OFFNUNGSDRUCK = $\frac{\text{BREMSKRAFT (N)}}{80}$ = N/cm²
(Pos. 23, 39, 46)
= $\frac{\text{BREMSKRAFT (N)}}{40}$ = N/cm²

BREMSZANGE MIT ENDSCHALTER: 0/10-08316
GEWICHT ca. 230kg

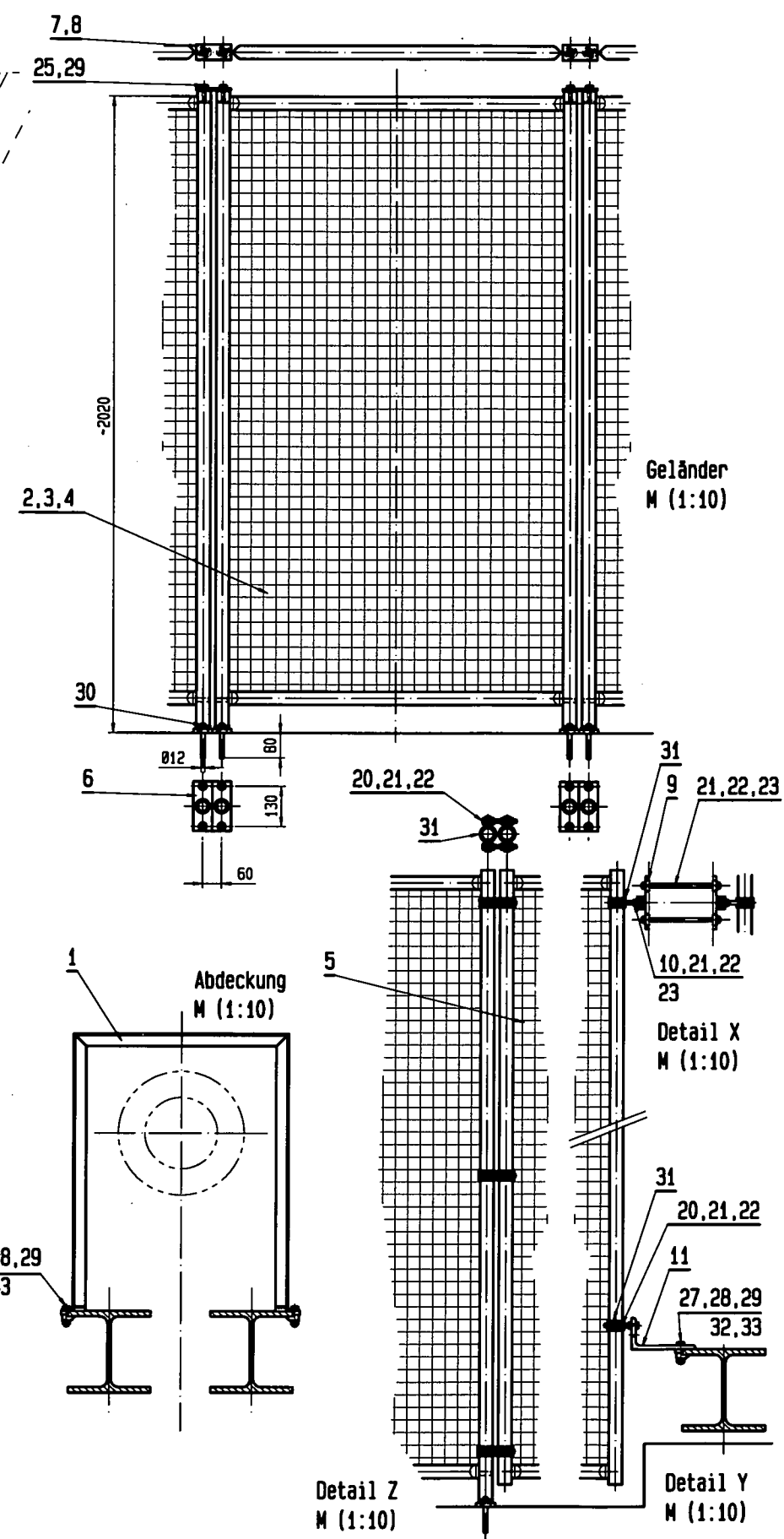
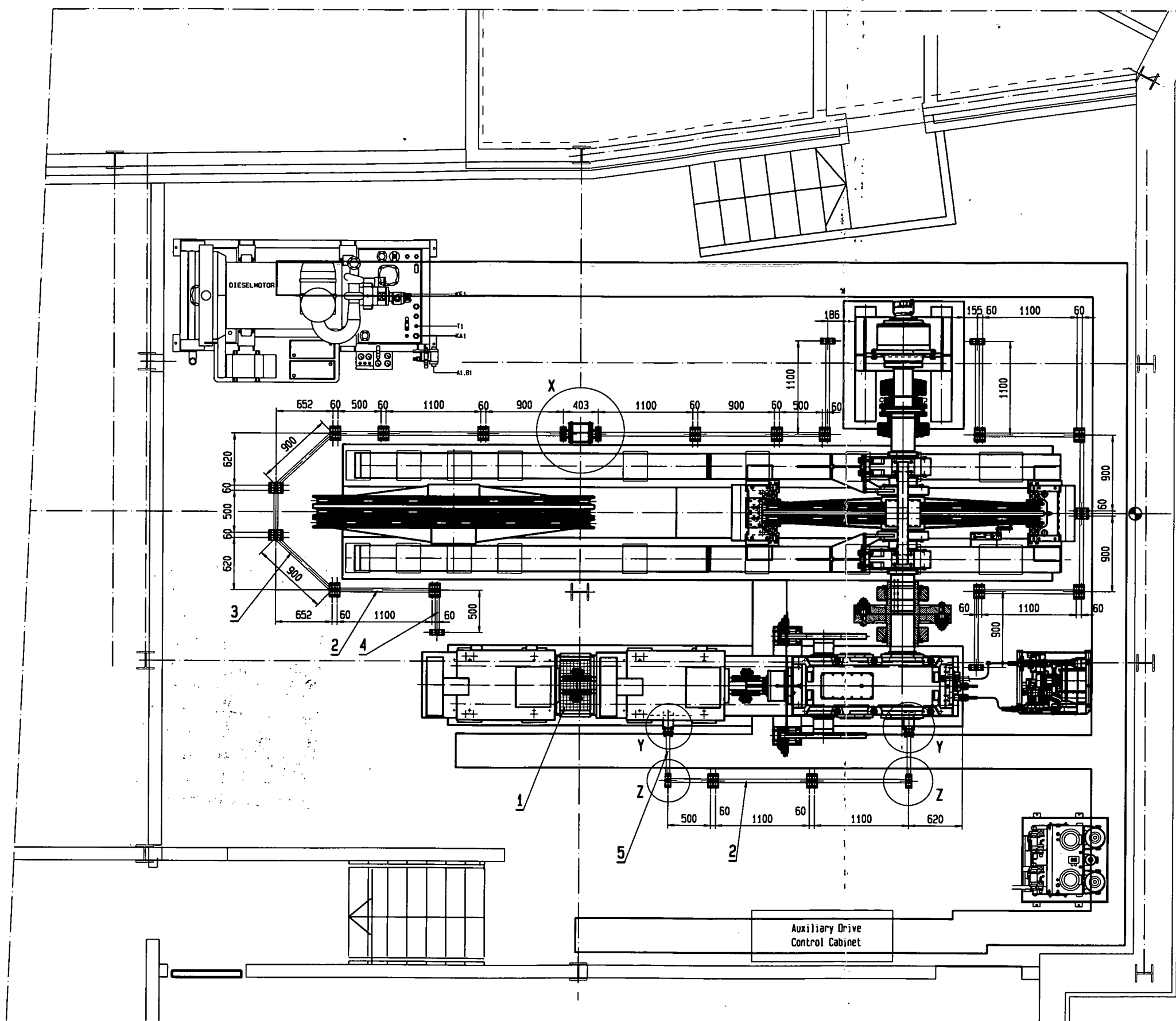
20811199	
1/1	2000-03-08
0/10-08316	03.09.131
Bremszange 60kN/660	
ohne Becken	
mit Radialgelenklager Pos. 35	
800054381/05000	
Doppelmayr Seilbahnen AG	



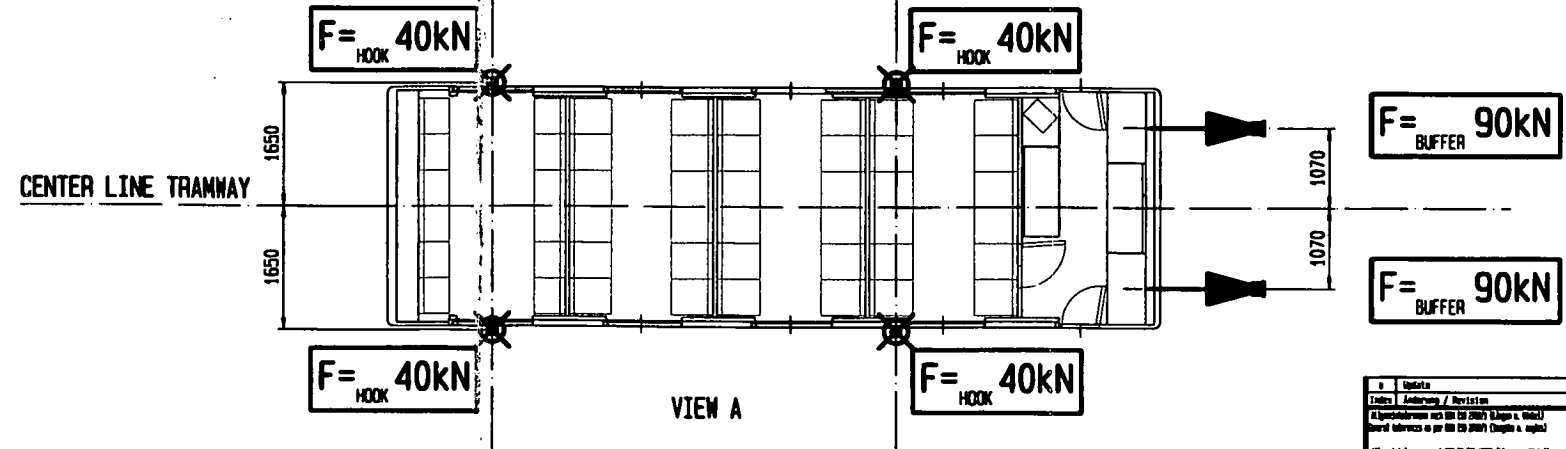
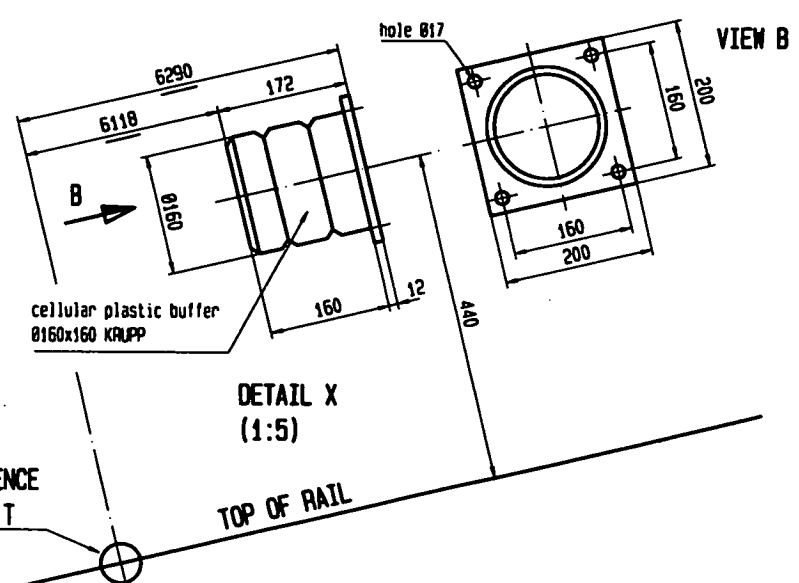
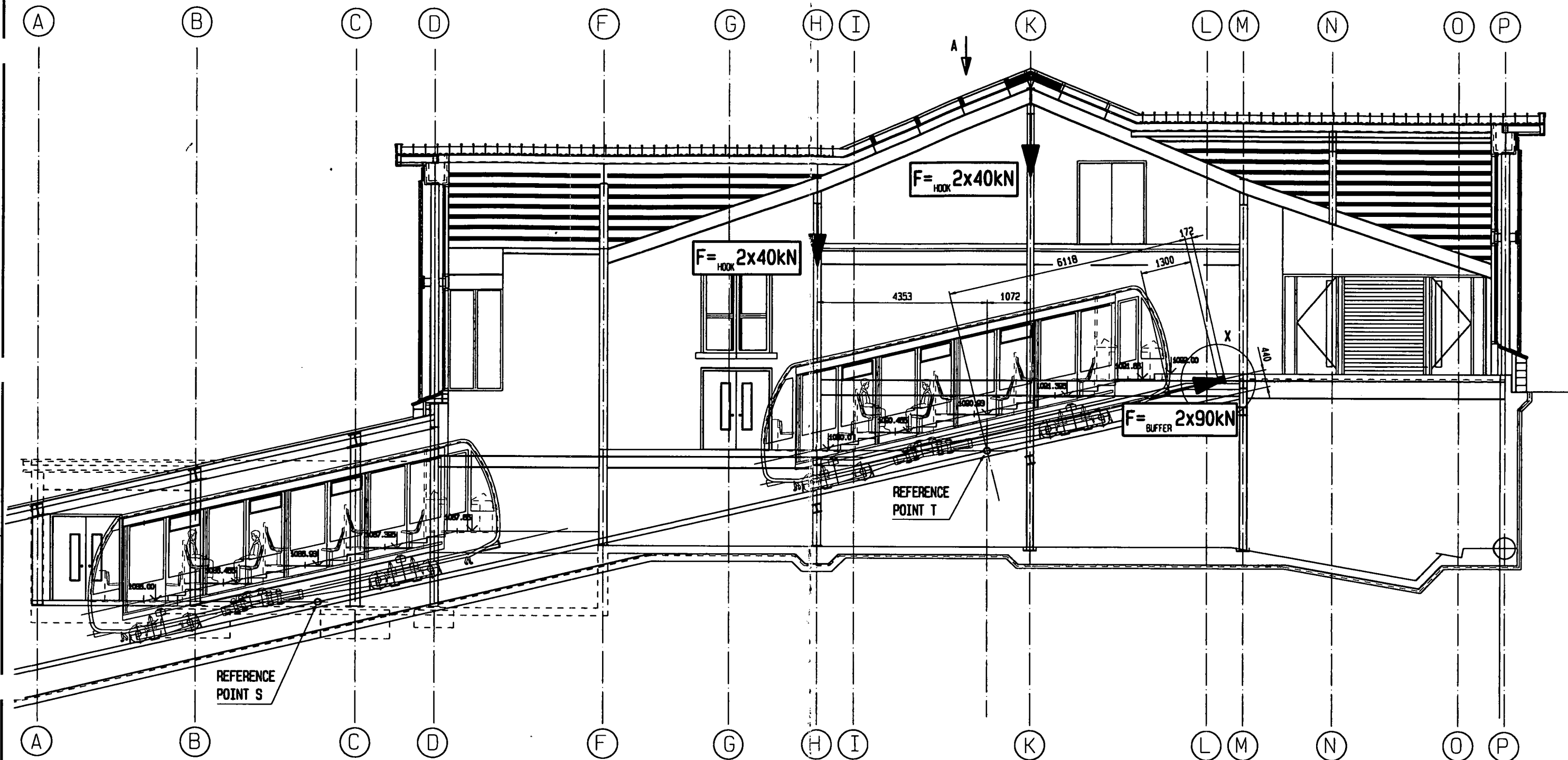
ANSICHT A

ANSICHT B

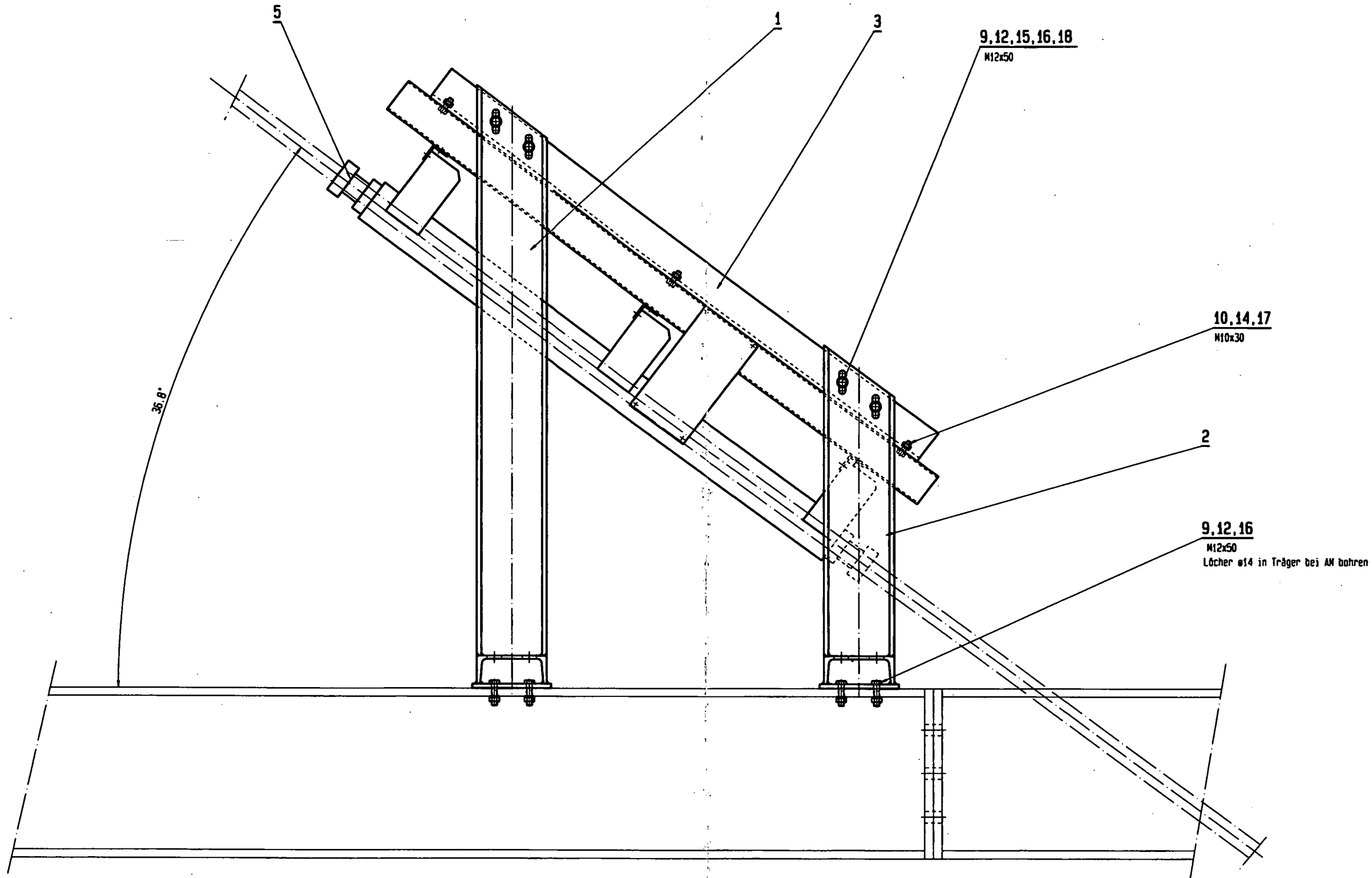
20811811		1/5		2007-07-07		10:30:12	
Gegenscheiben komplett				counter sheave complete			
Doppelmayr Seilbahnen AG				80005701N225000			



20815679																									
<table border="1"> <tr> <th>Änderung / Revision</th> <th>Datum / Date</th> <th>Name</th> <th>Ausführung / Configuration / Execution</th> <th>Blatt Nr. / Sheet No.</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Execution	Blatt Nr. / Sheet No.						<table border="1"> <tr> <th>Blatt Nr. / Sheet No.</th> <th>Datum / Date</th> <th>Name</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	Blatt Nr. / Sheet No.	Datum / Date	Name											
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Antrieb Schutzgitter fencing protective equipment Cairngorm funicular																									
80007485/225000																									
© Doppelmayr Seilbahnen AG																									

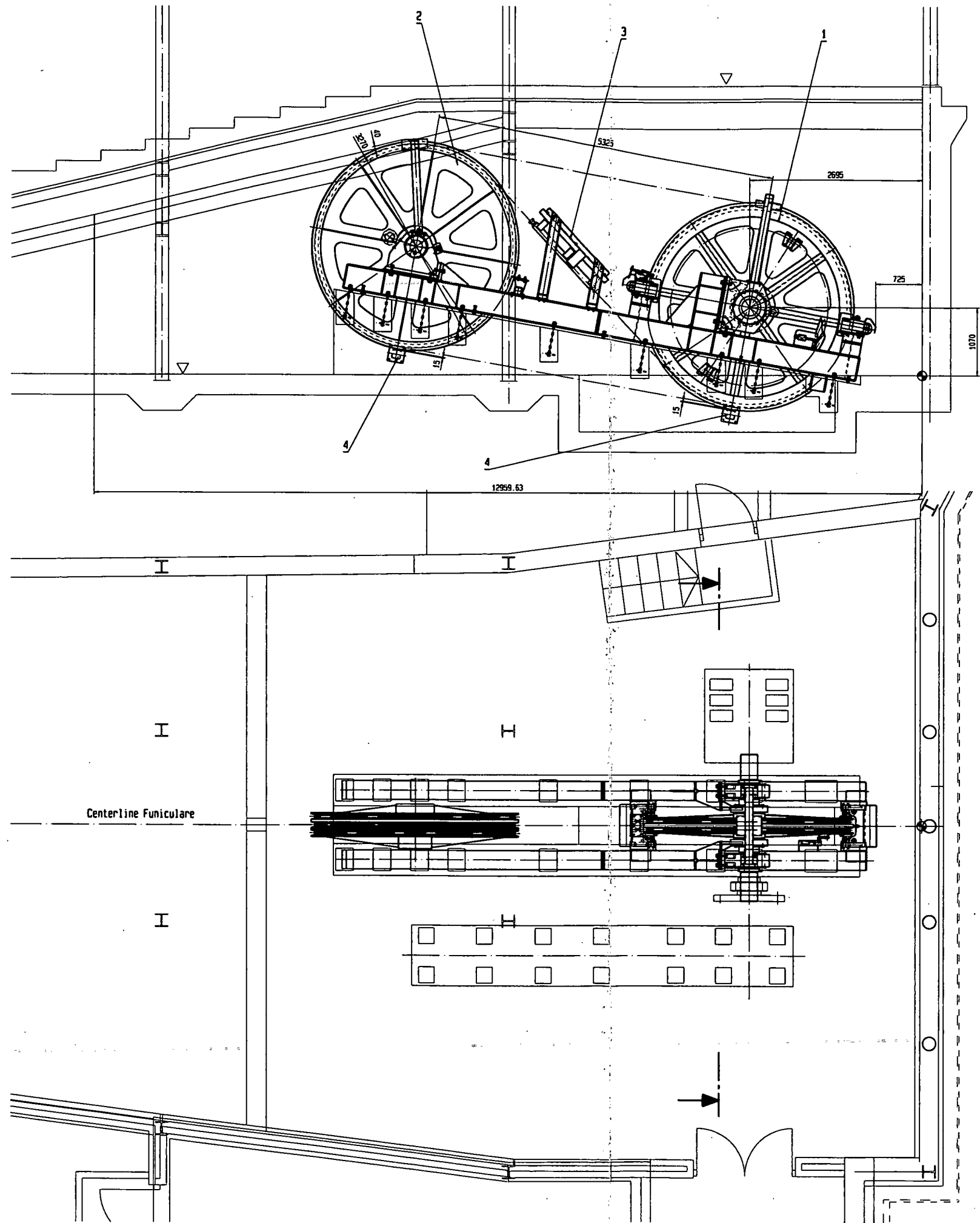


00000000																												
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№	Update / Revision	21.07.2000	v1.0	name	ausführung / Configuration / Fließplan	Form Nr. / Blatt Nr.																						
1	Algemeinbauwerk nach DIN EN 12002 (Lage u. Inhalt)				K																							
2	Algemeinbauwerk nach DIN EN 12002 (Lage u. Inhalt)				F																							
1/50	2000-07-21	16:41:59																										
2000-01-03	2000-07-21																											
Force plan top station Cairngorm Funicular																												
80005580N221003																												
Doppelmayr Seilbahnen AG																												



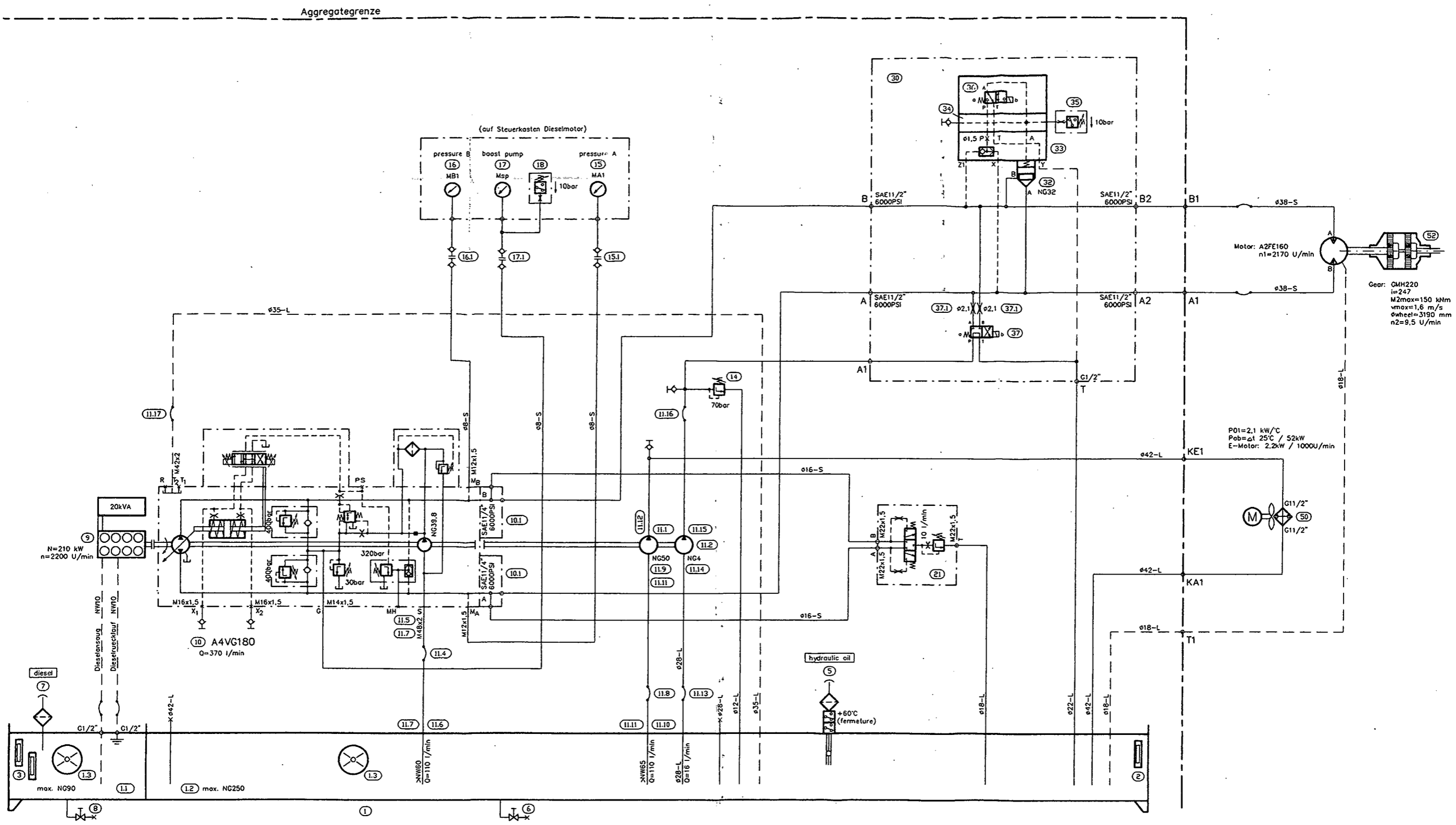
20811674

Index / Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Form Nr. / Form no.
A1			K	
A2			F	
Anlage / Installation				2001-01-03
Anfertiger / Designer				2000-03-31
Seilkondensator komplett				15:04:16
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800056031225000				
Doppelmayr Seilbahnen AG				C A1



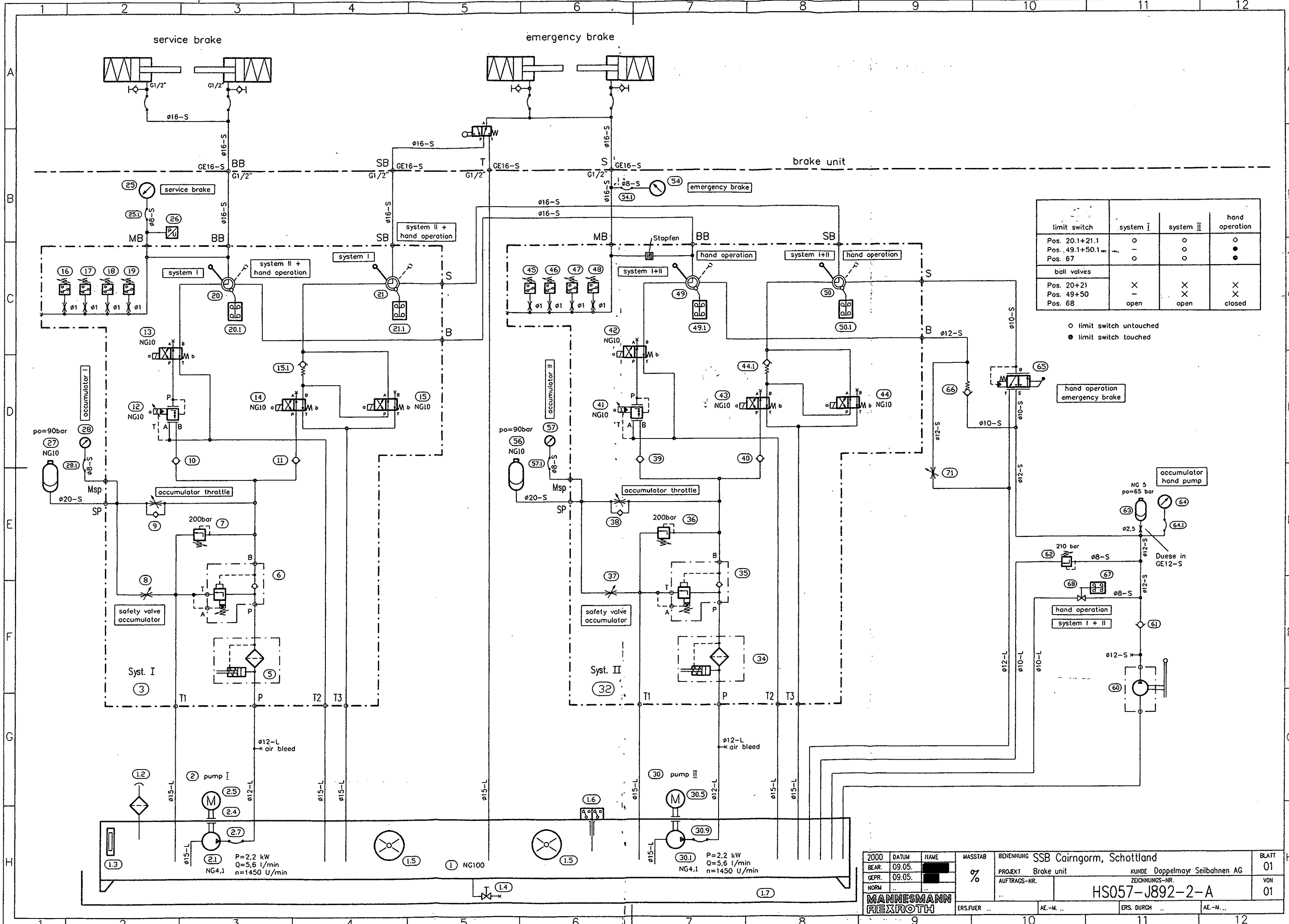
20811844	
Date / Datum 2007-01-23 Scale / Maßstab 1/25 Project / Projekt 2007-01-23 Drawing No. / Zeichnungs-Nr. 20811844	Title / Titel Seiltrieb komplett Rope drive complete Funicular Cairngorm
Manufacturer / Hersteller Doppelmayr Seilbahnen AG	Drawing Code / Zeichnungs-Code 80005704225000

DIESE UNTERLAGE DARF WEDER KOPPIERT NOCH DRITTEN PERSONEN AEBLICH GEMACHT WERDEN. GESETZ BEZ. URHEBERRECHT



2000	DATUM	NAME	MASSTAB	BEZÜG	SSB Cairngorm, Schottland	BLATT
BEAR.	11.05.		%	PROJEKT	Auxiliary drive	01
GEPR.	11.05.			AUFTRAGS-NR.		VON
NORM					HS057-J852-2-A	01
MANNESMANN REXROTH			ERS.FUER	AE.-M.	ERS. DURCH	AE.-M.

DIESE UNTERLAGE DARF WEDER KOPIERT NOCH DRITTEN PERSONEN ZUGÄNGLICH GEMACHT WERDEN. GESETZ BETR. URHEBERRECHT



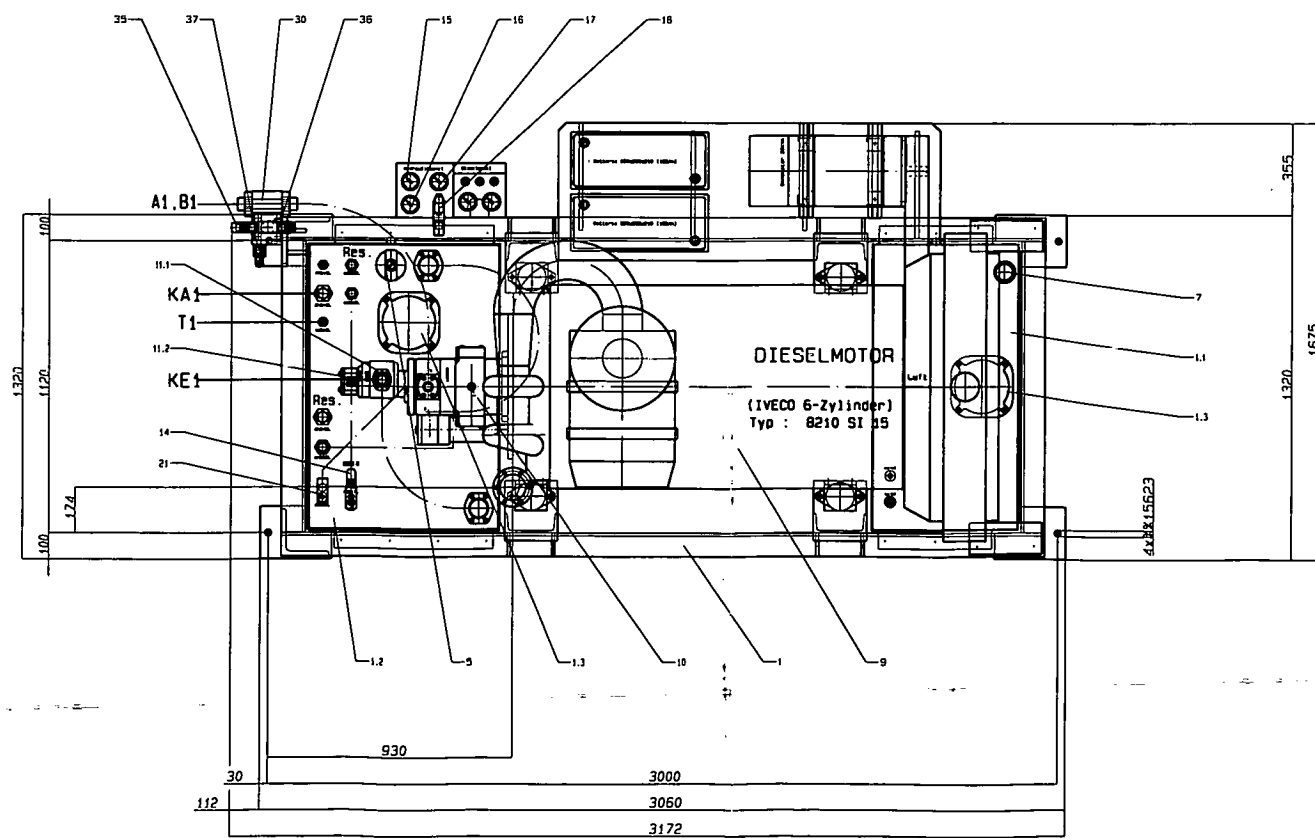
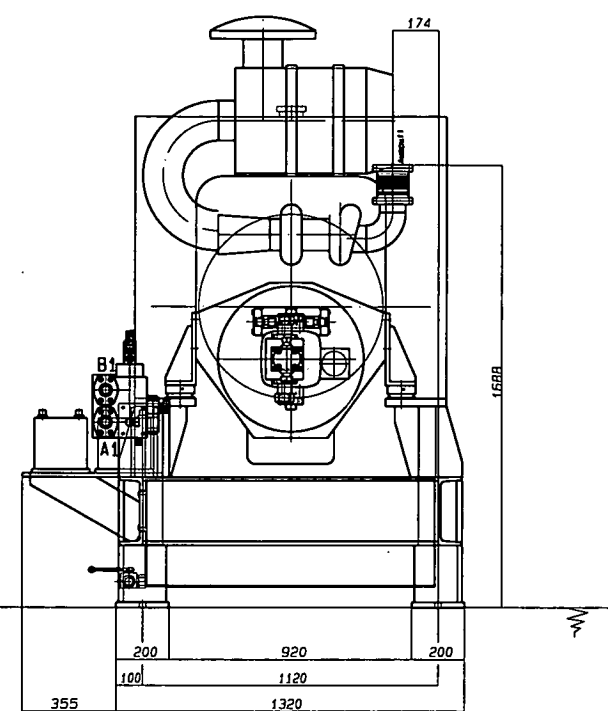
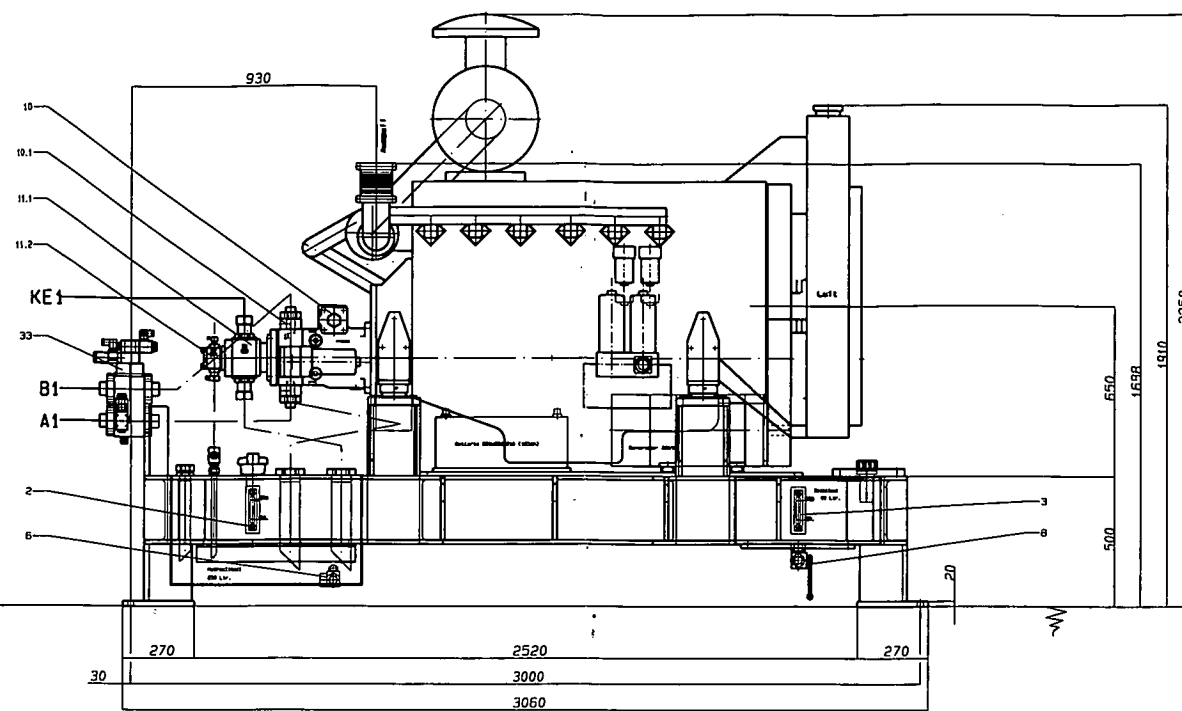
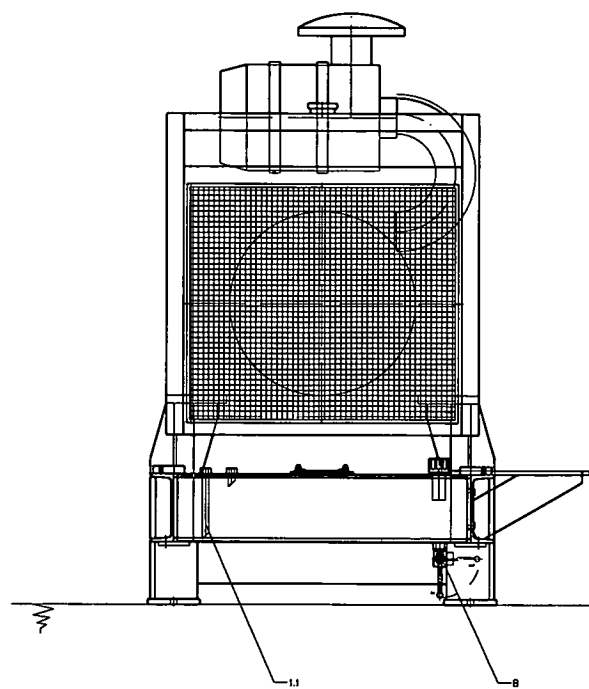
	system I	system II	hand operation
limit switch			
Pos. 20.1+21.1	○	○	○
Pos. 49.1+50.1	●	●	●
Pos. 67	○	○	●
ball valves			
Pos. 20+21	X	X	X
Pos. 49+50	-	X	X
Pos. 68	open	open	closed

○ limit switch untouched
● limit switch touched

② pump I
P=2,2 kW
Q=5,6 l/min
n=1450 U/min
NG4,1

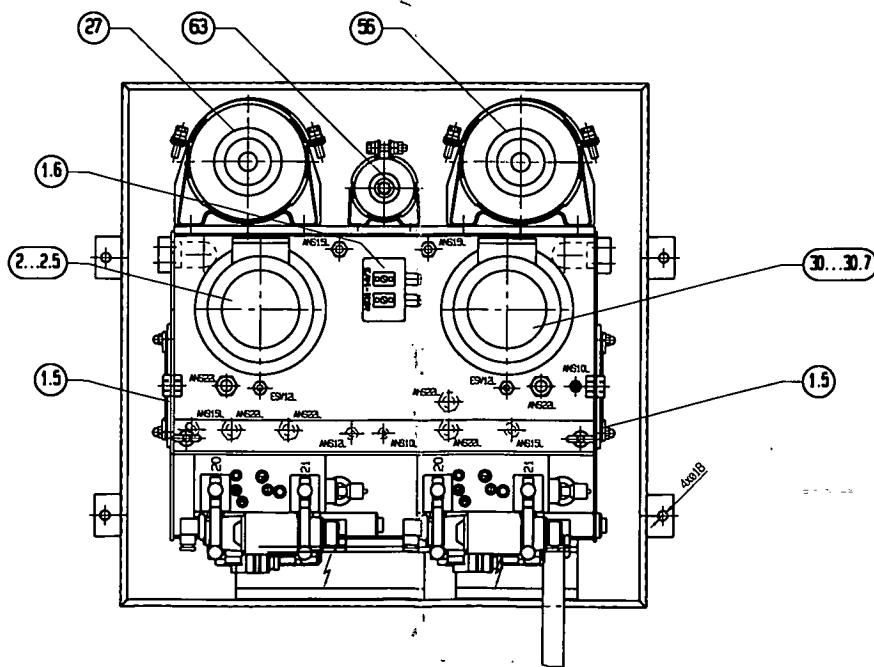
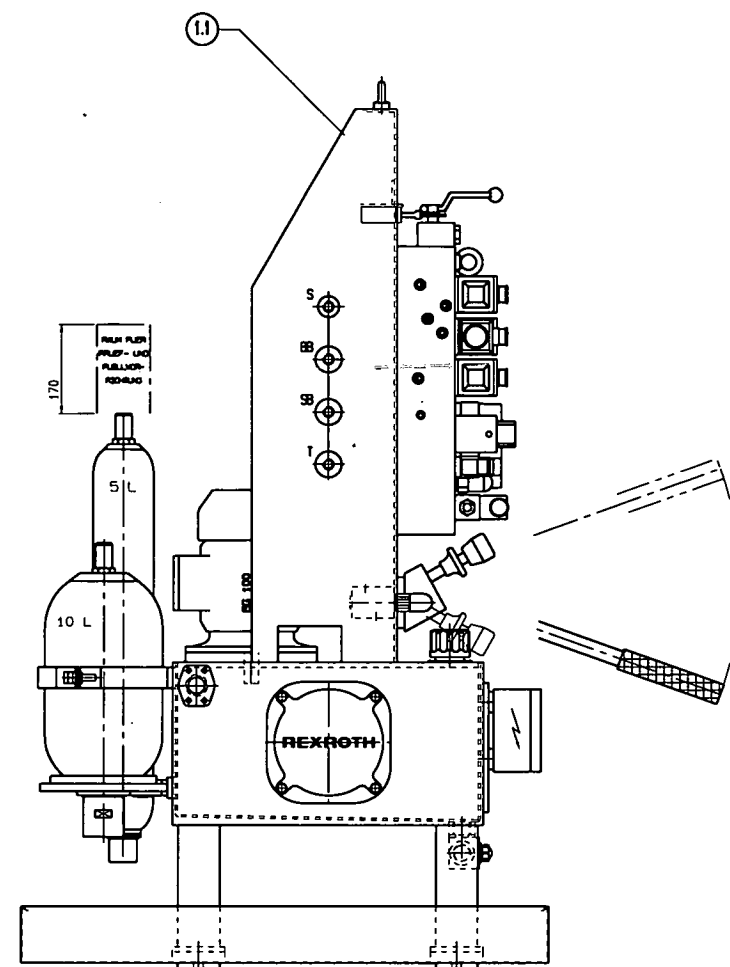
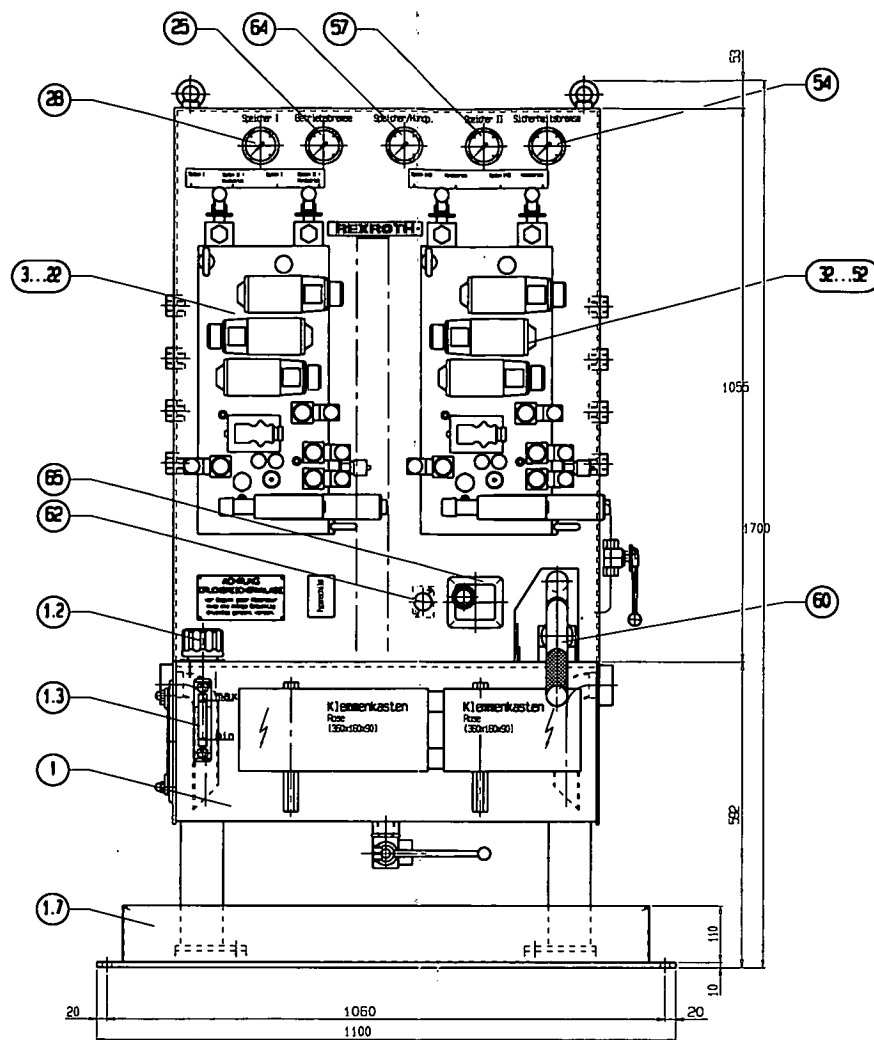
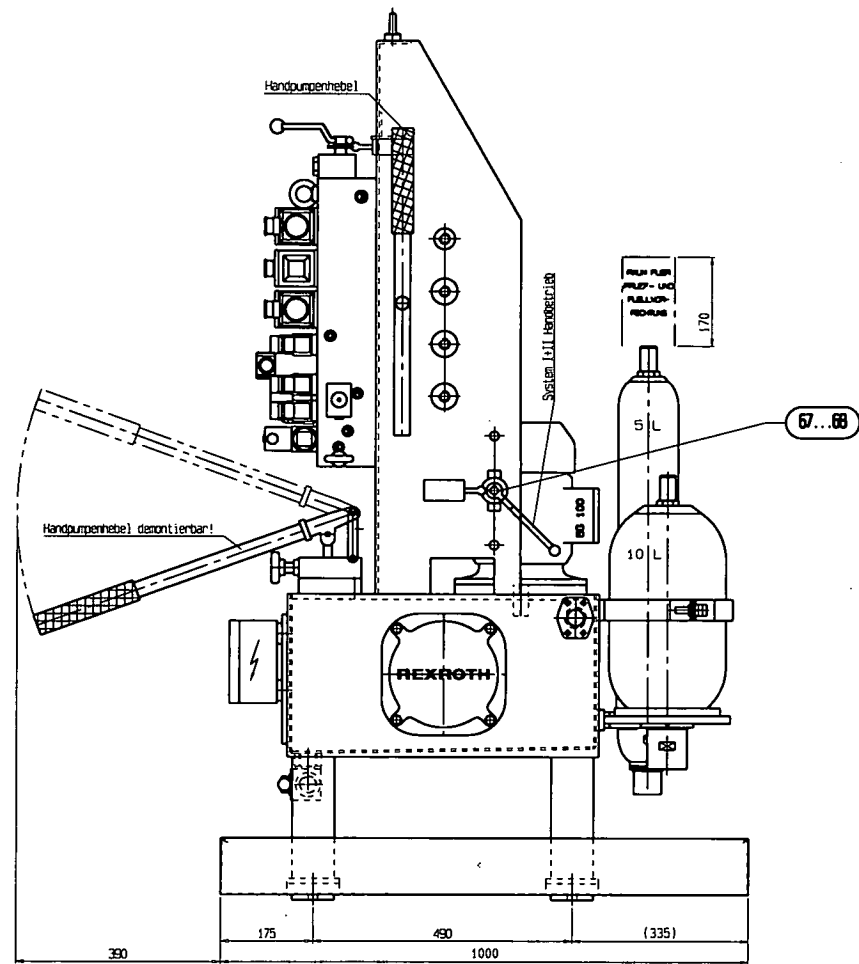
③ pump II
P=2,2 kW
Q=5,6 l/min
n=1450 U/min
NG4,1

2000	DATUM	NAME	MASSTAB	BENENNUNG	SSB Cairngorm, Schottland	BLATT
BEAR.	09.05.		%	PROJEKT	Brake unit	01
GEPR.	09.05.			AUFTRAGS-NR.		VON
NORM						01
MANNESMANN REXROTH				HS057-J892-2-A		
ERS.FUER		AE.-M.		ERS. DURCH		AE.-M.



VERBRAUCHERANSCHL.	11	15618-L	F
	KE1, KA1	15642-L	F
	A1, B1	SAE 11/2", 6000 PSI	F
VERBRAUCHERANSCHL.	11	15335	153R ROHR BZW. GEWINDBUCHUNG
AB VENTIL UND VERROHRUNG MIT ABGANGSVERSCHRAUBUNG BZW. FLANSCH MIT ABGANGSLEISTE			RICHTUNG C, A, F, D
VERROHRUNG:			MIT ELASTISCHER PROFILDICHTUNG MIT O-RING
VERSCHRAUBUNG LEICHTE REIHE			
VERSCHRAUBUNG SCHWERE REIHE			
VERSCHRAUBUNG MIT 24° ANSCHNITTSSKEGEL			
RA-FLANSCH (R045501 UND R045502)			
DIN-FLANSCH (A822-04) BZW. SAE-FLANSCH (A822-15)			
REXROTH-KOM. NR.	17/25006135/23125		
KUNDEN-KOM. NR.	16560		
KENNWORT	SSB Cairngorm, Schottland		
SCHALTSCHHEMA	HS057-JB52-2-A		
BETRIEBSDRUCK	Nach Schaltschema		
BEZEICHNUNG DER POS.	SIEHE GERÄT 149 TELISTE		
STICH BEZEICHNUNG	POS.	FEHRTGABE	TEILE-NR.
1			15618-L
2			15642-L
3			SAE 11/2", 6000 PSI
4			15335
5			15618-L
6			15642-L
7			SAE 11/2", 6000 PSI
8			15335
9			15618-L
10			15642-L
11			SAE 11/2", 6000 PSI
12			15335
13			15618-L
14			15642-L
15			SAE 11/2", 6000 PSI
16			15335
17			15618-L
18			15642-L
19			SAE 11/2", 6000 PSI
20			15335
21			15618-L
22			15642-L
23			SAE 11/2", 6000 PSI
24			15335

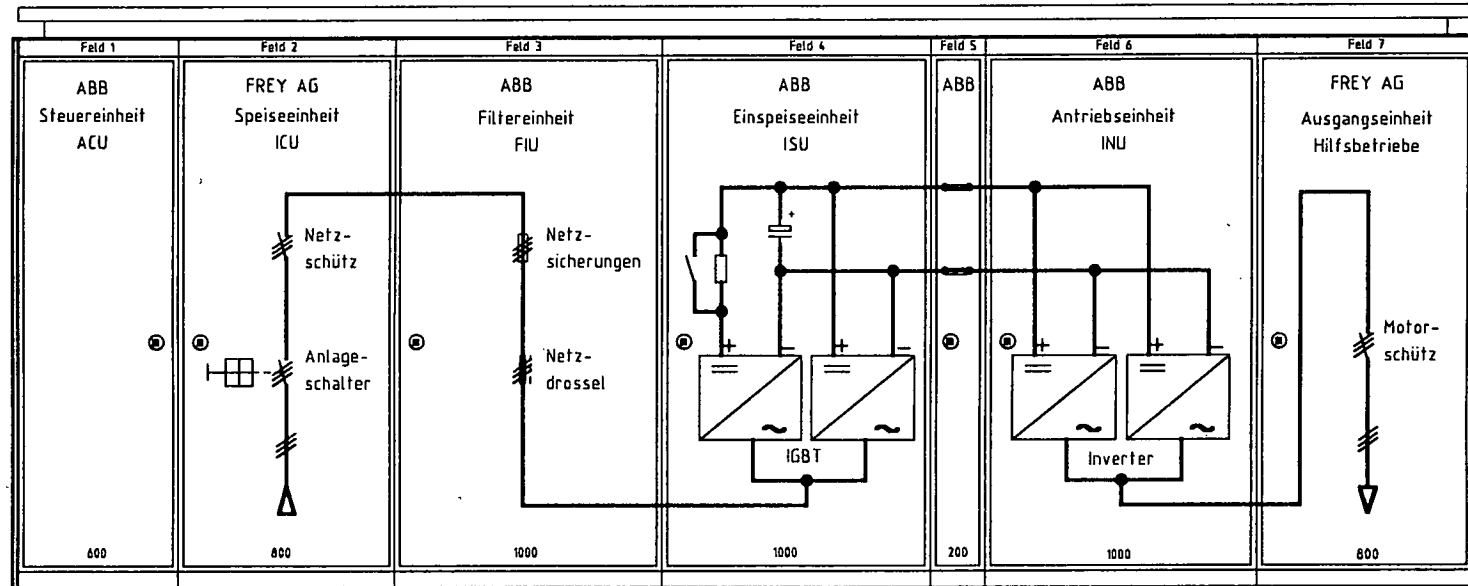
DIESE LAYOUTS SIND NUR FÜR DEN INTERIÖR VERWENDET. KEINE VERWENDUNG FÜR ANDERE ZWECKE.



Nutzerschleuse:
 S = 61/2"
 3B, 8B, T = 63/4"

VERBAUDERSCHLEUSE:		RICHTUNG																																																																																																																																																																																																															
AB-VENTIL UND VERPFLUG	MIT ABGANGSVERPFLUG BZM. FLANSCH																																																																																																																																																																																																																
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VERPFLUG:	MIT ELASTISCHER PROFILDÜBLUNG	MIT D-RING																																																																																																																																																																																																															
VERPFLUG LEICHTE REIHE	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																																																																																																															
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AUFBAU ACS 600 MULTI DRIVE FREQUENZUMRICHTER



Einspeisung
Power Supply
3x400VAC+N+E/50Hz

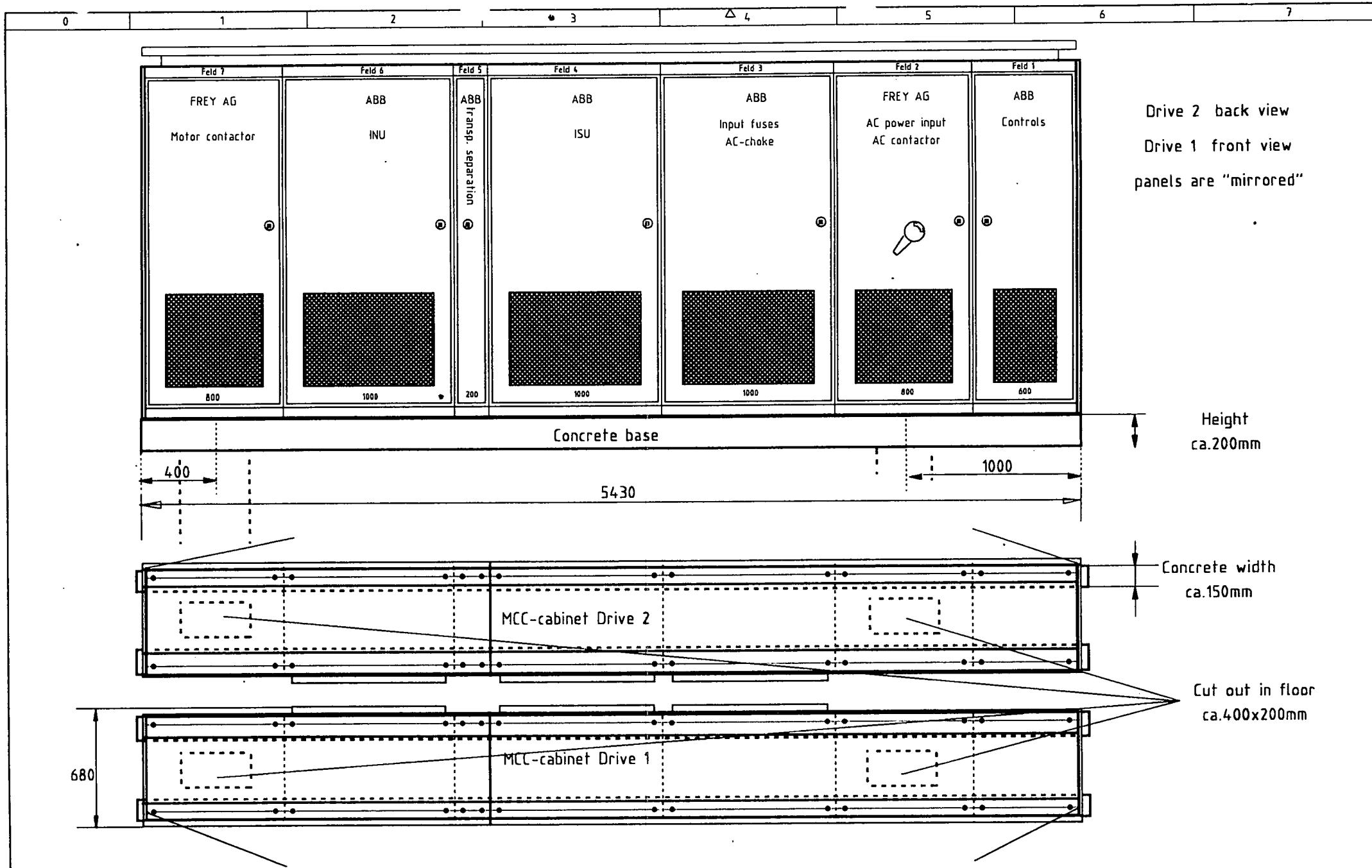
Motorenabgang M2BA 400 LKC 6
3x400VAC/50Hz/500KW/880A

3 Kabel 3x150mm²
Typ GN-CLN-Beta

MCC 2 +SS0
5430x2117.5x685mm
Color : RAL 7035

M 1:20 A3

c			status		Doppelmayr Seilbahnen AG	FREYAG STANS	5 ZEICHNUNGEN ACS 600 Multi Drive Motor Control Cabinet Drive 2 +SS0	00-9700	AST-SS0
b			date	09.11.2000, 7:17h	Funicular Cairngorm				
a			design	Sh Oc					
modification	date	name	origin	00-9728	Scotland				



Drive 2 back view
 Drive 1 front view
 panels are "mirrored"

rev. 03.08.2000 Ae

M 1:20 A3

c			status		Doppelmayr Seilbahnen AG
b			date	09.11.2000, 7:17h	Funicular Cairngorm
a			design	Sh Oc	Scotland
	modification	date	name	origin	00-9728

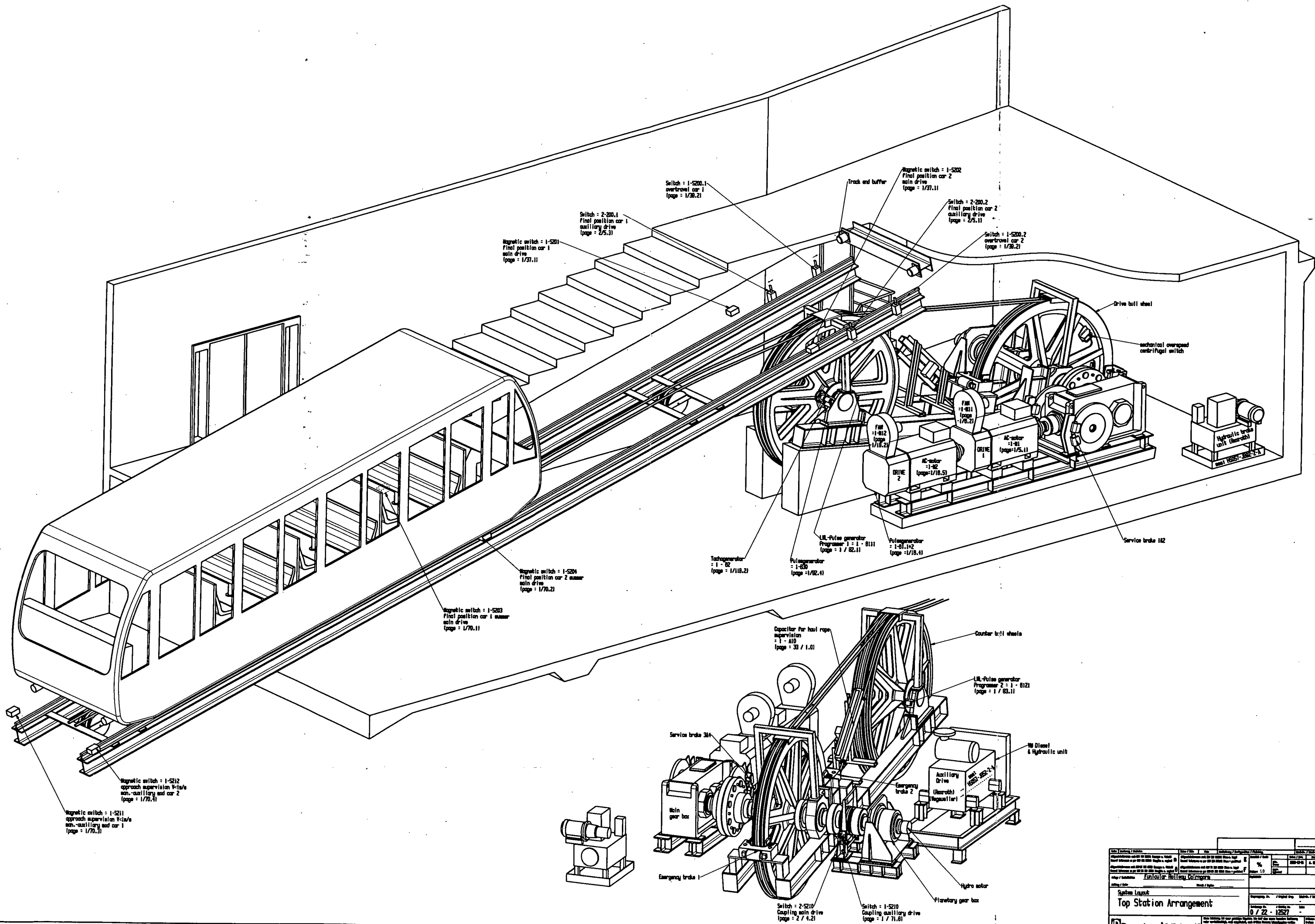
Doppelmayr Seilbahnen AG
 Funicular Cairngorm
 Scotland



5 ZEICHNUNGEN
 Concrete base to control Cabinet 1+2 +SS0
 Upper Station Switch Room

00-9700

AST-SS0
 page 4



System Layout		Top Station Arrangement	
<p>System Layout Top Station Arrangement</p>		<p>Project No. / Drawing No. / Station / Station</p> <p>Scale: 1:1</p> <p>Date: 07/22/1957</p>	
<p>Project: Tunnel Railway, Garmisch</p>		<p>Scale: 1:1</p>	
<p>Project: Tunnel Railway, Garmisch</p>		<p>Scale: 1:1</p>	

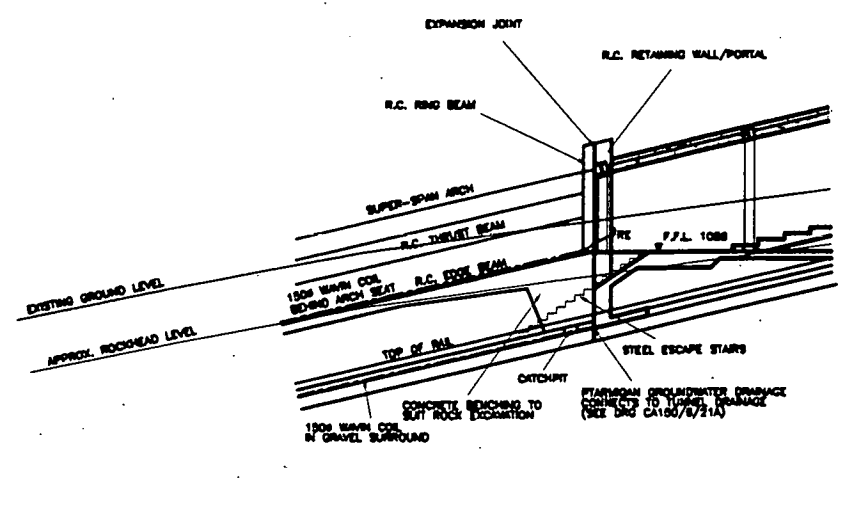
Client
CAIRNGORM CHAIRLIFT COMPANY

Project
CAIRNGORM FUNICULAR

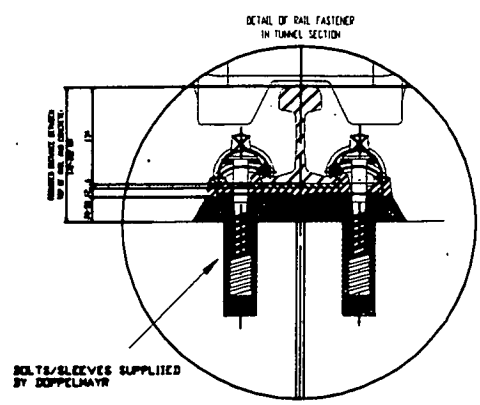
Drawing
**TUNNEL DETAILS
 PTARMIGAN STATION**

Drawing No. **CA150/2/54** Drawn By
 Date **18/2/00**
 REV. B Scale **AS SHOWN**

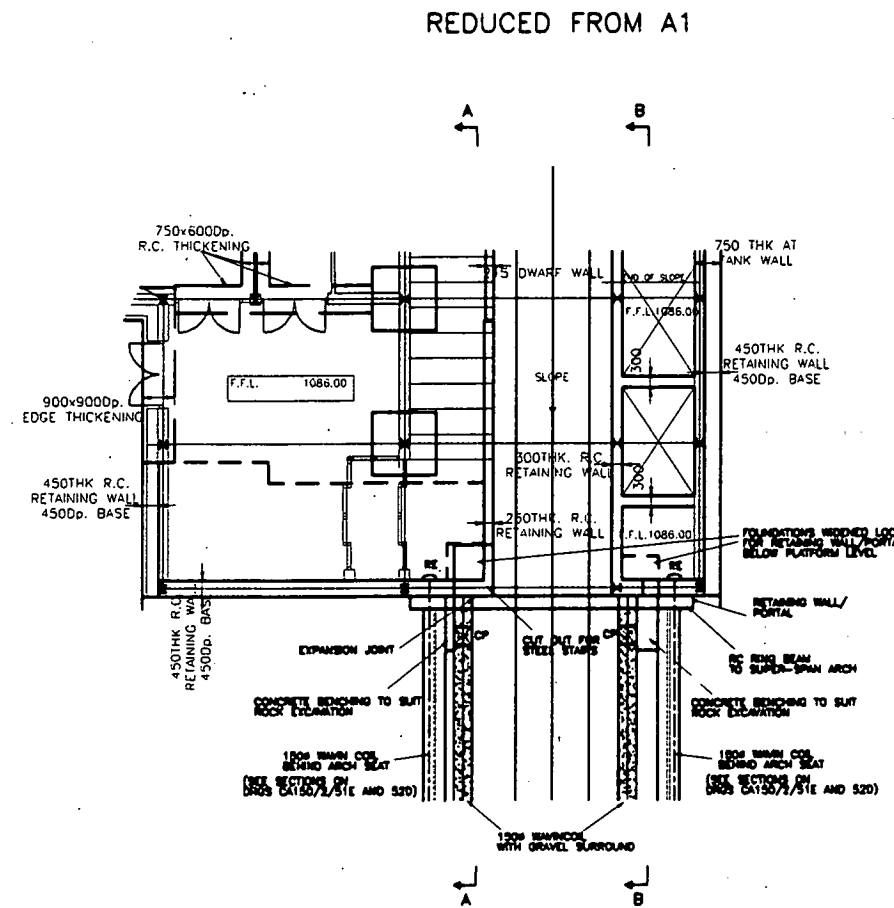
Revisions
 Date By
 A **13/3/00**
 Tunnel drainage added.
 B **10/5/00**
 Ptarmigan ret. wall amended



SECTION A-A 1:100

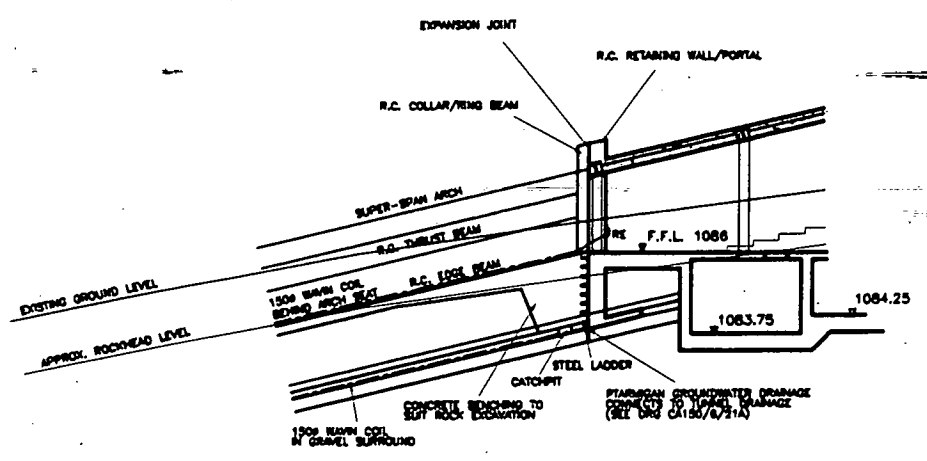


RAIL FIXING DETAIL 1:5

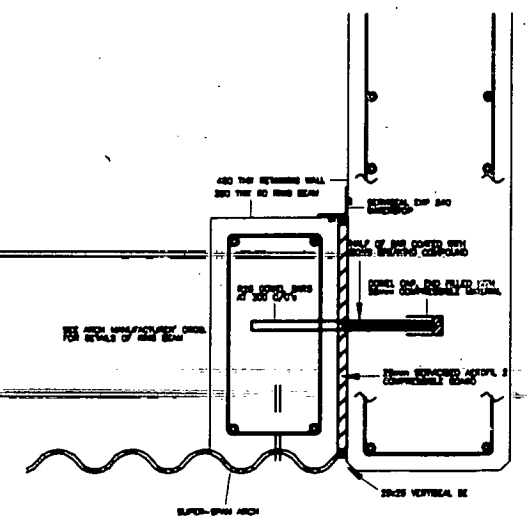


RING BEAM/PORTAL - PLAN 1:100

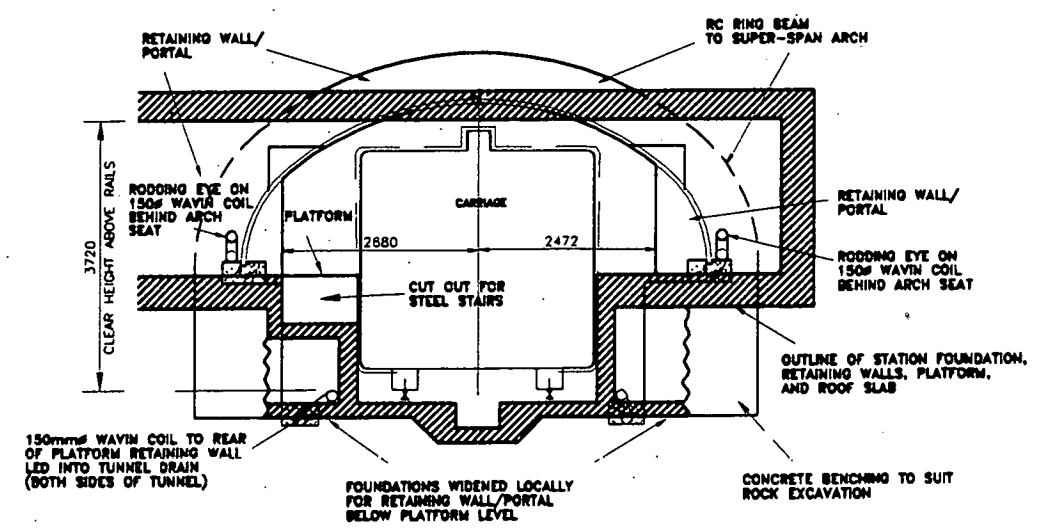
CONTRACT ISSUE
 FOR CONSTRUCTION
 FOR INFORMATION ONLY



SECTION B-B 1:100



**EXPANSION JOINT DETAIL
 AT RING BEAM/PORTAL 1:10**



RING BEAM/PORTAL - ELEVATION 1:50

REDUCED FROM A1

A.F.Cruden Associates
 Consulting Engineers
 24 Bank Street
 Inverness IV1 1QU
 Tel: 01463 718200
 Fax: 01463 718201
 email: crudens@aol.com

Client

CAIRNGORM CHAIRLIFT
 COMPANY

Project

CAIRNGORM FUNICULAR

Drawing

EARTHWORKS/LANDSCAPING
 AT TUNNEL ENTRANCE

Drawing No.

CA150/2/55

Drawn By

[Redacted]

REV. A

Date 8/3/00

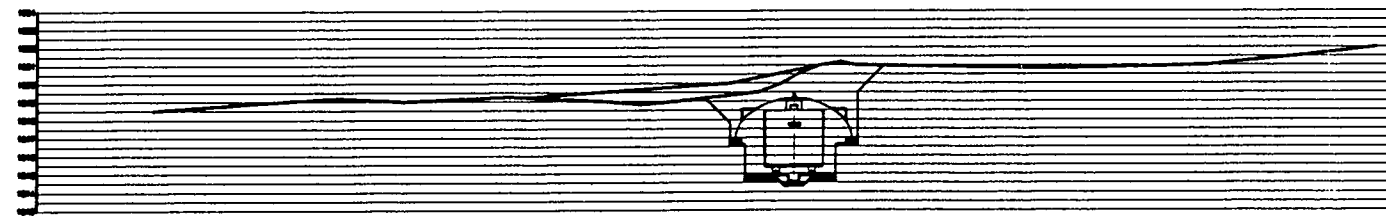
Scale AS SHOWN

Revisions

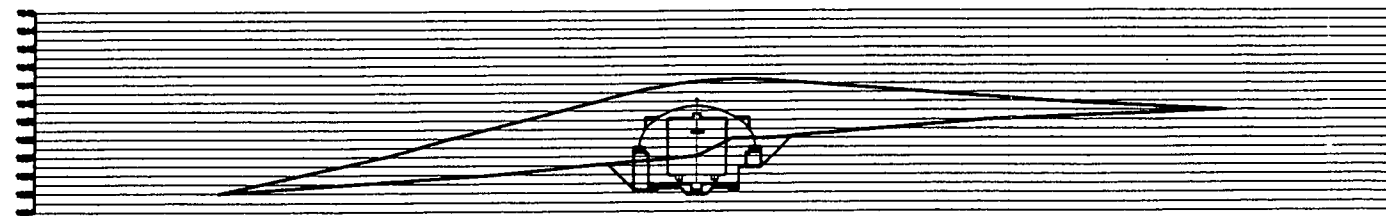
Date By

A 20/3/00 [Redacted]
 Earthworks/Landscaping amendments.
 Tunnel amendments.
 Tunnel drainage added.
 Retaining walls at tunnel entrance added.

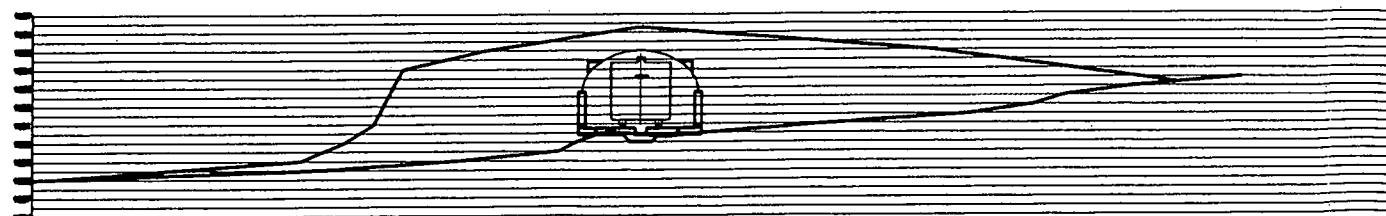
PLAN OF EARTHWORKS/LANDSCAPING AT TUNNEL ENTRANCE 1:500



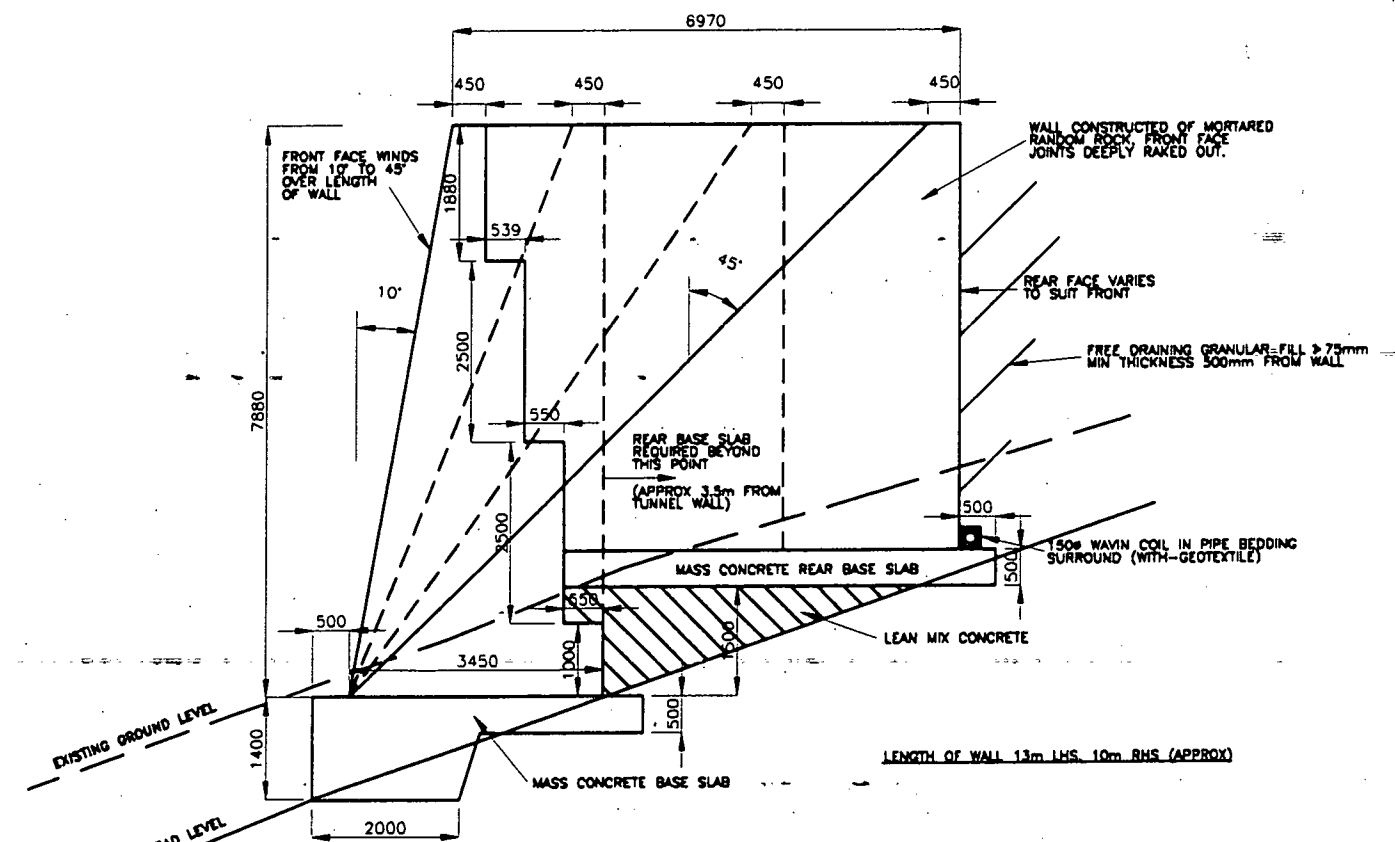
SECTION C-C 1:200



SECTION B-B 1:200



SECTION A-A 1:200



RETAINING WALLS AT TUNNEL ENTRANCE
 SECTION 1:50

Client:

CAIRNGORM CHAIRLIFT
 COMPANY

Project:

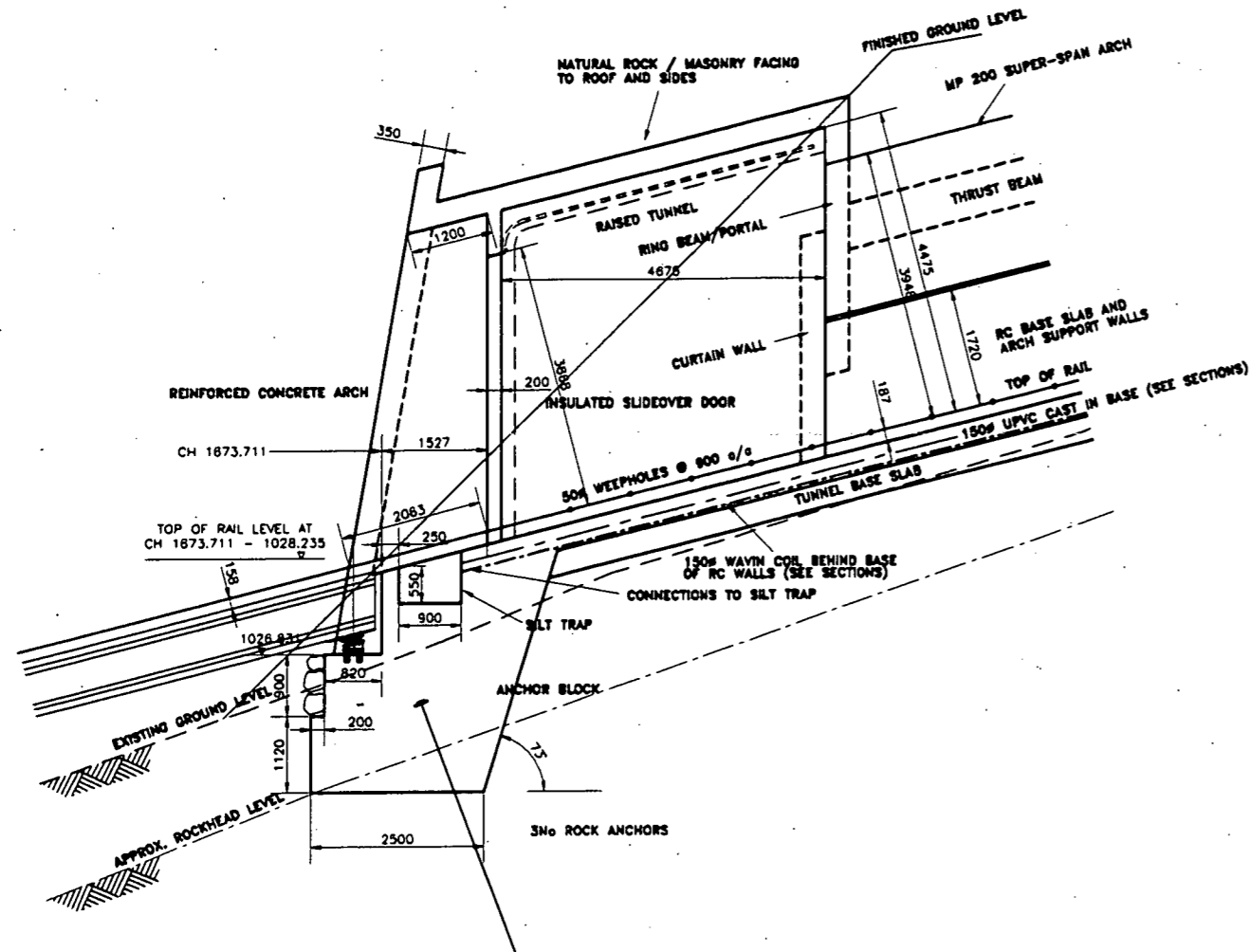
CAIRNGORM FUNICULAR

Drawing:

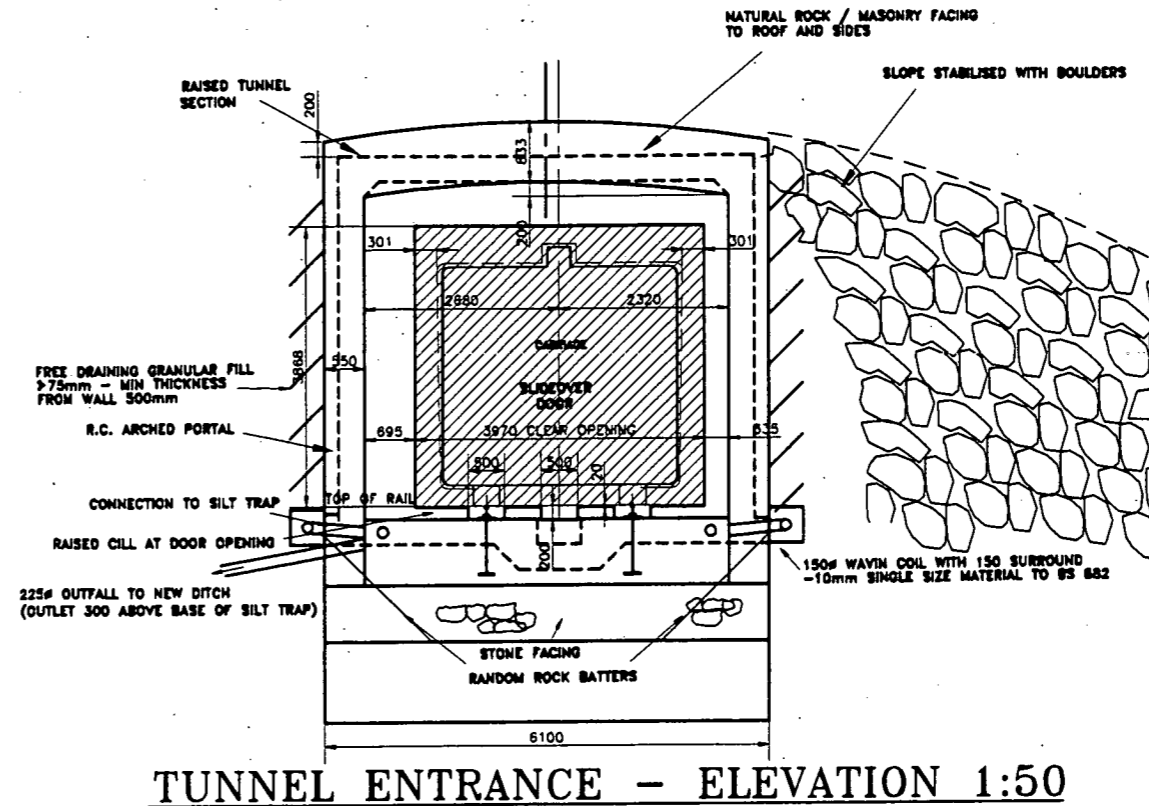
TUNNEL DETAILS
 (SHEET 1 OF 2)

Drawing No.	CA150/2/51	Drawn By	
REV. H		Date	26/04/99
		Scale	AS SHOWN

Revisions	Date	By
A	27/10/99	L
B	19/1/00	
Carriage amendments. Super-span arch adapted in lieu of RC bar Tunnel Cross Section, Elevation of Tunnel Entrance and Typical Tunnel Section amended.		
C	1/2/00	
Cross Section of Raised Tunnel added.		
Dimension changes Section amended.		
D	23/2/00	
Cross sections amended and re-arranged with DRG. CA150/2/52		
E	13/3/00	
Tunnel drainage added.		
F	5/4/00	
Setting out reference added. Door head raised 20mm.		
G	20/8/00	
Tunnel entrance amended		
H	4/7/00	
Additional dimensions		

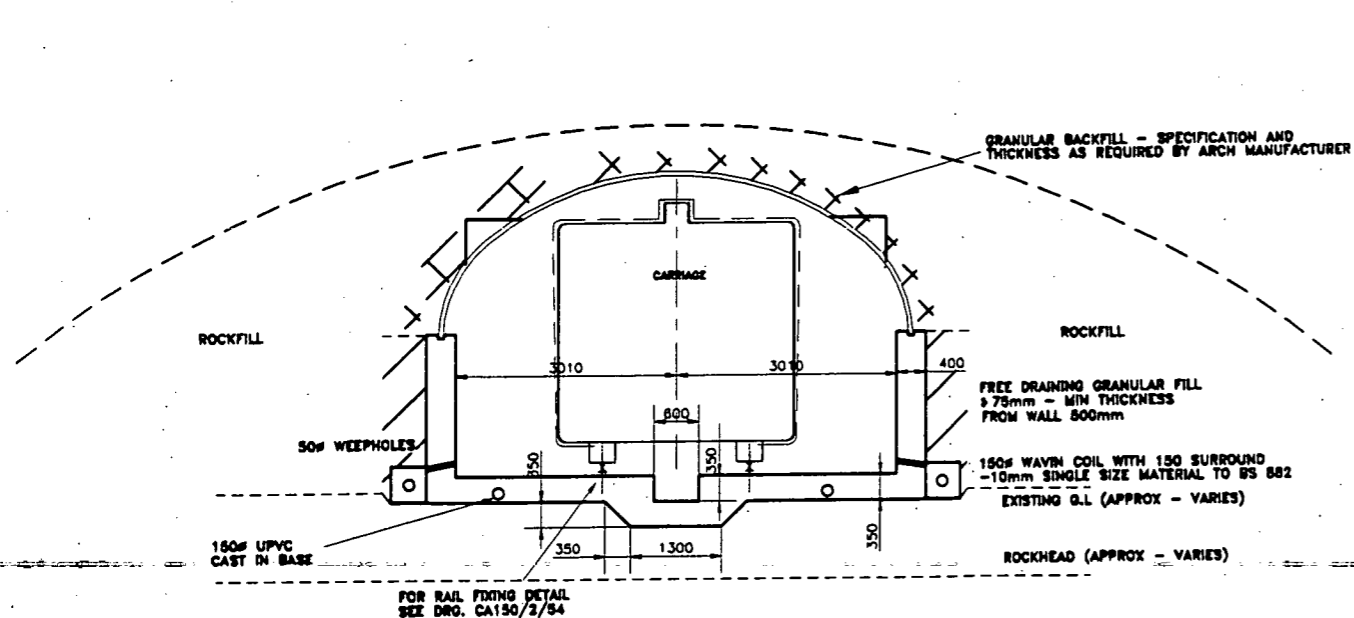


TUNNEL ENTRANCE - SECTION 1:50

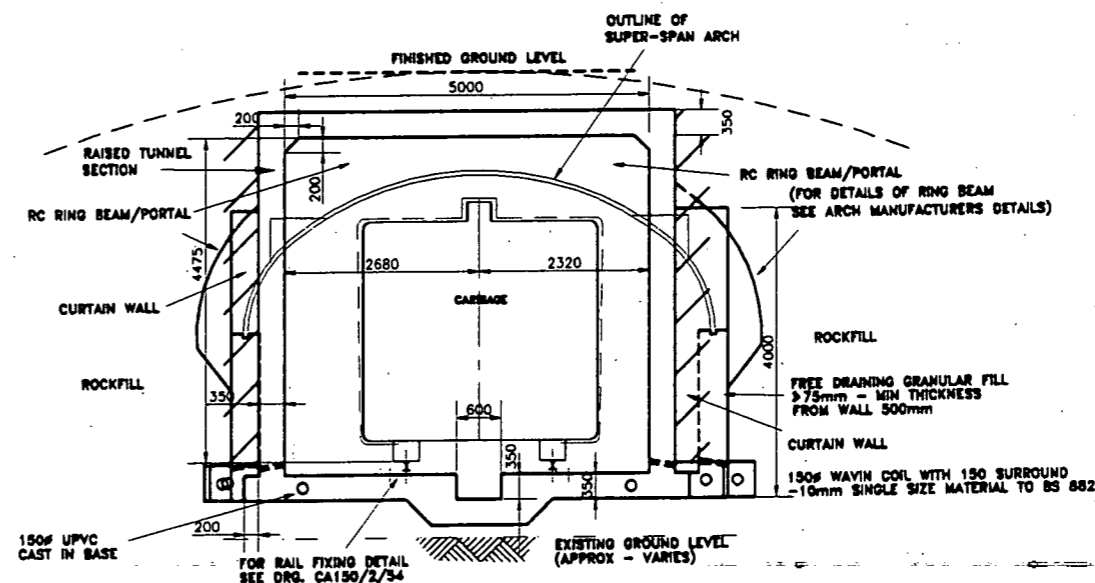


TUNNEL ENTRANCE - ELEVATION 1:50

REDUCED FROM A1



**BASE SLAB AND ARCH SUPPORT WALLS
 SECTION 1:50**



**RAISED TUNNEL/ARCH SUPPORT WALLS
 SECTION 1:50**

A.F. Cruden Associates
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 Tel: 01463 719200
 Fax: 01463 719201
 email: arudene@aol.com

Client

CAIRNGORM CHAIRLIFT COMPANY

Project

CAIRNGORM FUNICULAR

Drawing

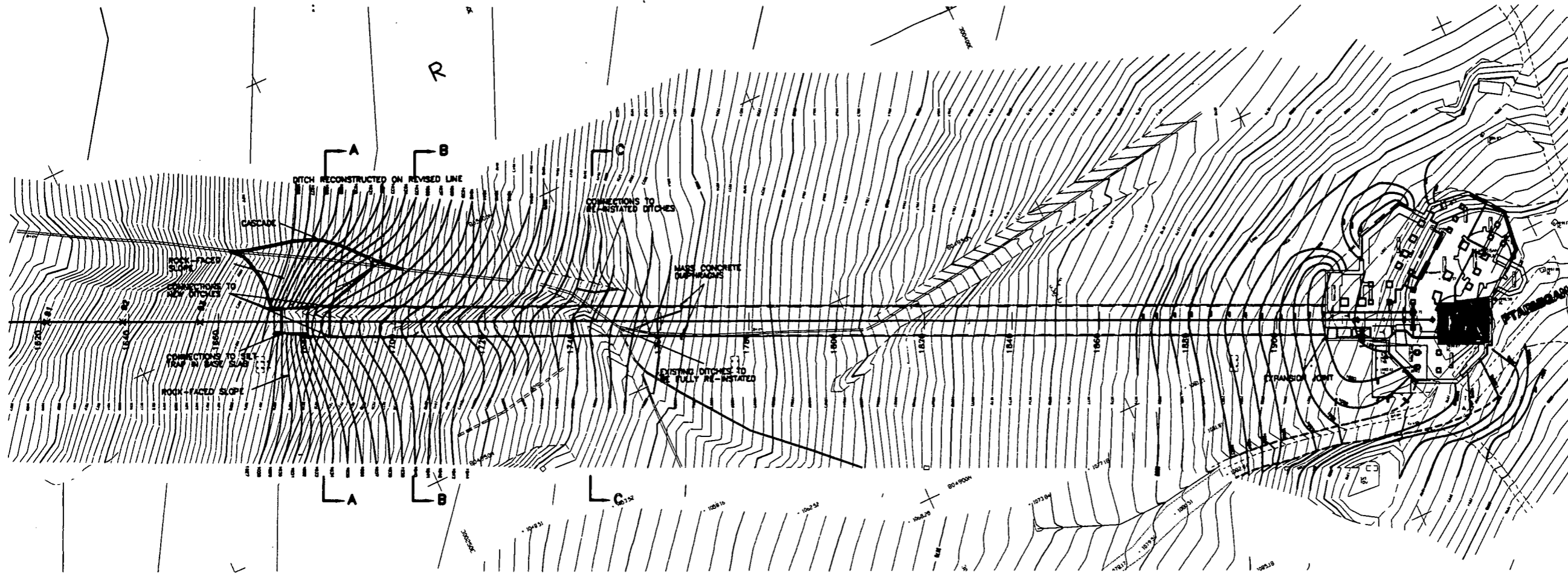
TUNNEL GENERAL ARRANGEMENT

Drawing No. **CA150/2/50** Drawn By

REV. C Date **23/04/99**

Scale **AS SHOWN**

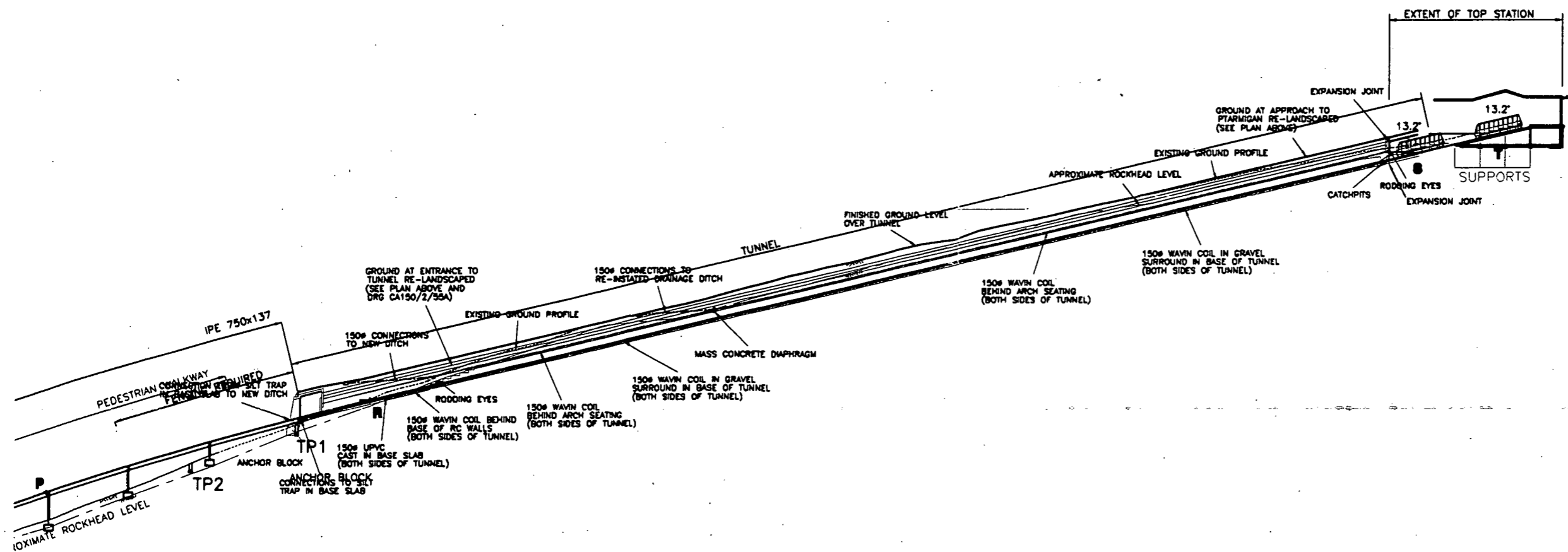
Revisions	Date	By
A	14/3/00	
Updated Funicular geometry and top station. Tunnel amendments. Earthworks/Landscaping amendments. Tunnel drainage added.		
B	20/3/00	
Earthworks/Landscaping amendments. Contour amendments.		
C	10/5/00	
Contours of Ptarmigan amended.		



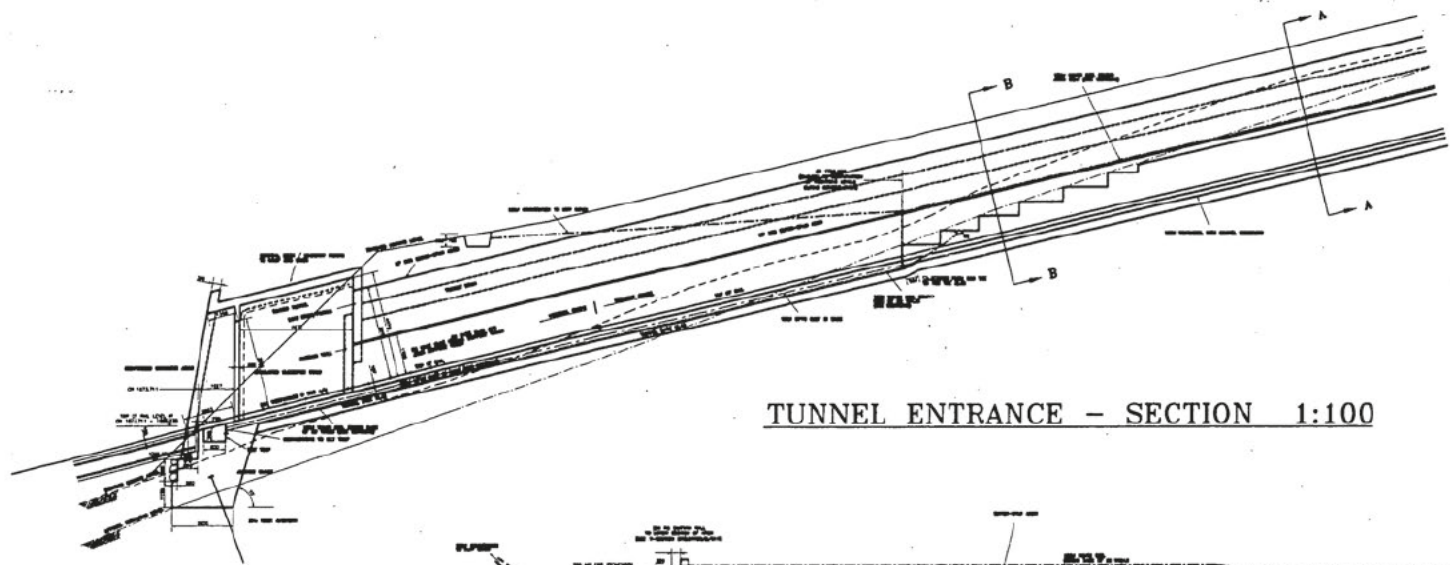
PLAN 1:500

CONTRACT ISSUE
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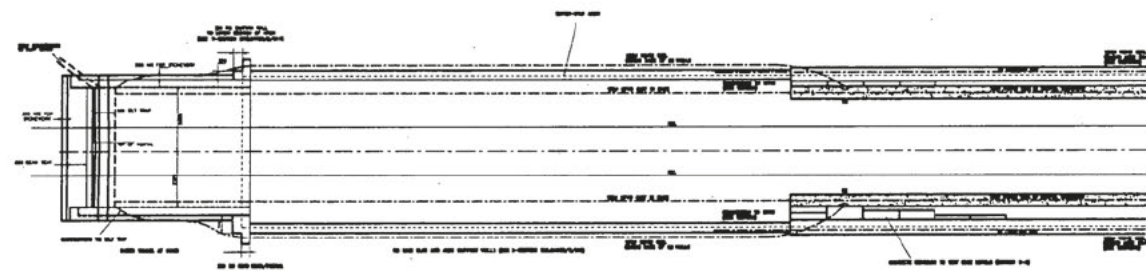
REDUCED FROM A1



LONG SECTION 1:500

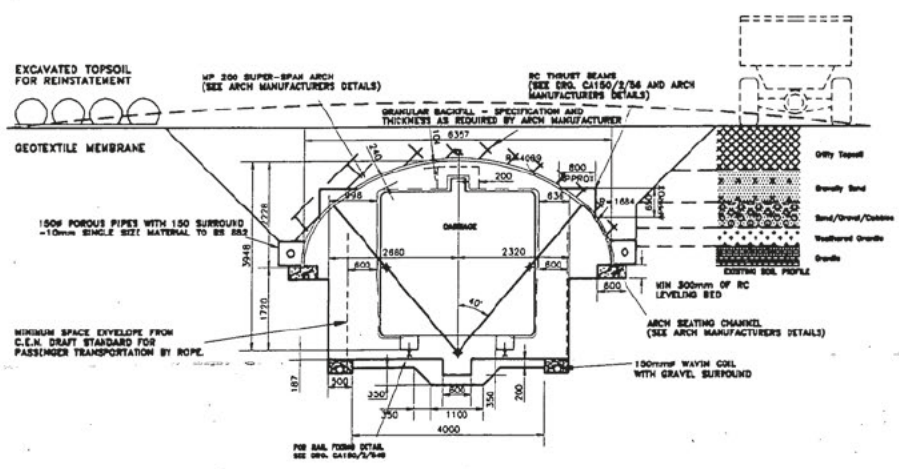


TUNNEL ENTRANCE - SECTION 1:100



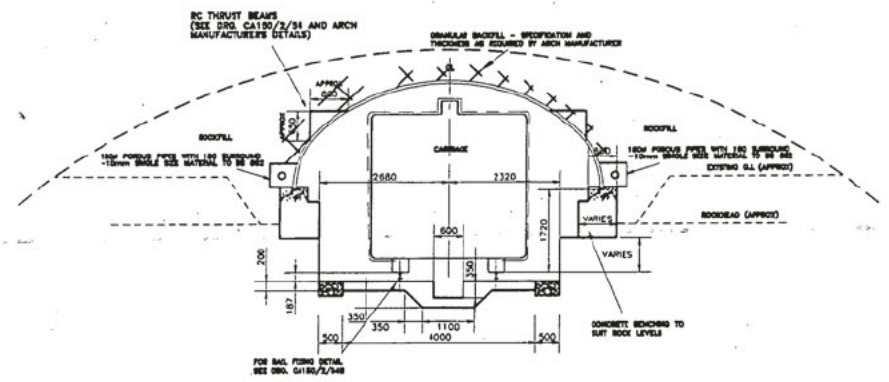
VERTICAL PLAN 1:100

REDUCED FROM A1



TUNNEL CROSS SECTION A-A 1:50

NOTE: ALL TUNNEL DIMENSIONS ARE PRELIMINARY
SUBJECT TO CONFIRMATION BY SUPPLIER



TUNNEL CROSS SECTION B-B 1:50

A.F. Cruden Associates
Consulting Engineers
24 Bank Street
Inverness IV1 1QU
Tel 01463 718200
Fax 01463 718201
email: arvdens@aol.com

Client
**CAIRNGORM CHARLIFT
COMPANY**

Project
CAIRNGORM FUNICULAR

Drawing
**TUNNEL DETAILS
(SHEET 2 OF 2)**

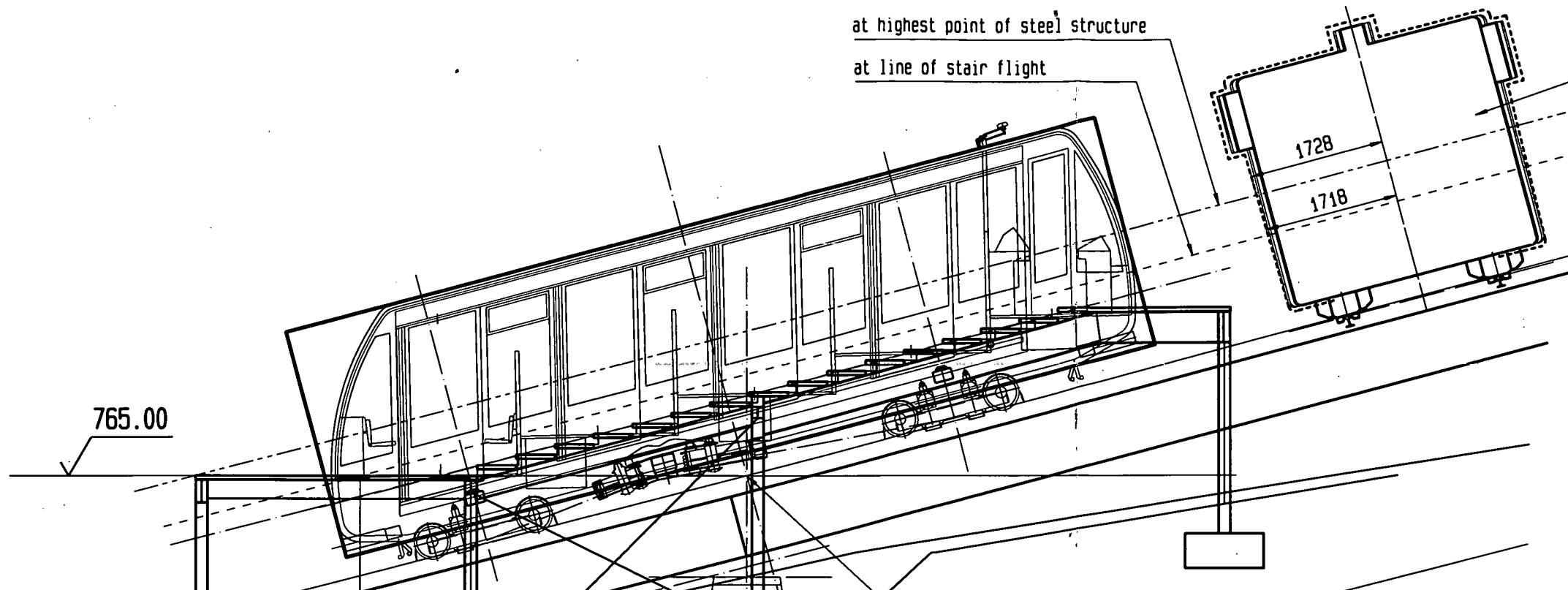
Drawing No.	Drawn By
CA150/2/52	Person
REV F	Date 27/1/00
	Scale AS SHOWN

- A. Redrawn. Person 2/2/00
Tunnel sections added
- B. Plan added. Person 8/2/00
Section at top level
moved to Drg. CA150/2/54
Tunnel amendments.
- C. Cross sections Person 3/2/00
amended and re-arranged
with Drg. CA150/2/51
- D. Tunnel drainage added Person 3/3/00
- E. Setting out Person 4/00
reference added.
Door head raised 20mm.
- F. Tunnel entrance gkc4/7/00
amended 20/8/00.
Additional dimensions

This drawing is copyright of
A.F. Cruden Associates

at highest point of steel structure
at line of stair flight

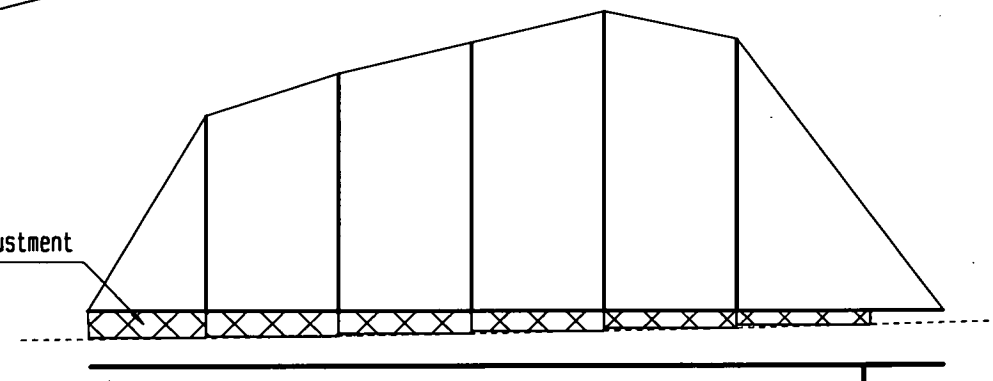
Space envelope of carrier
DWG.-No. 80007541N221002



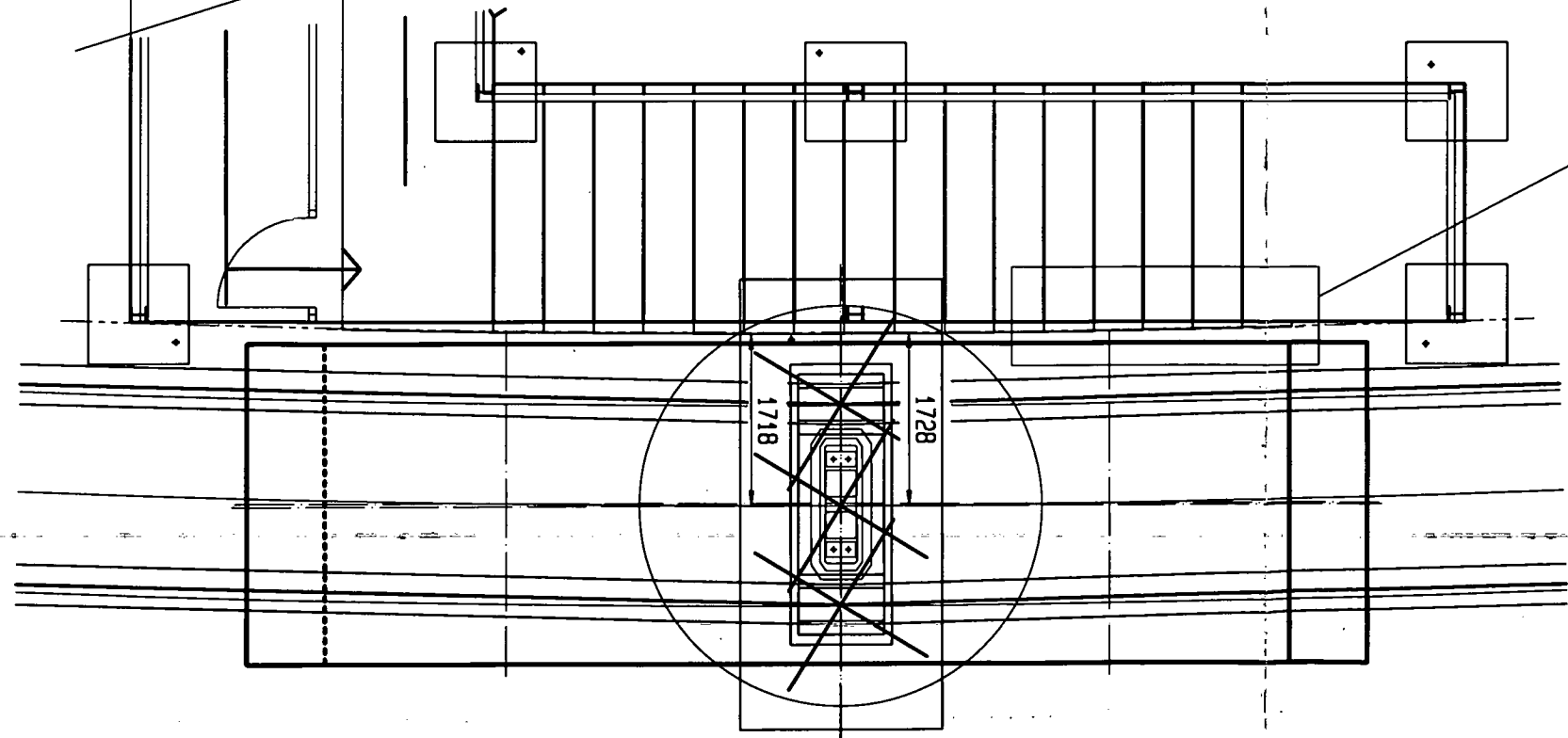
765.00

ref. point J

step-in plastic pieces for final adjustment



Detail S(1:20)



PRELIMINARY

20815618

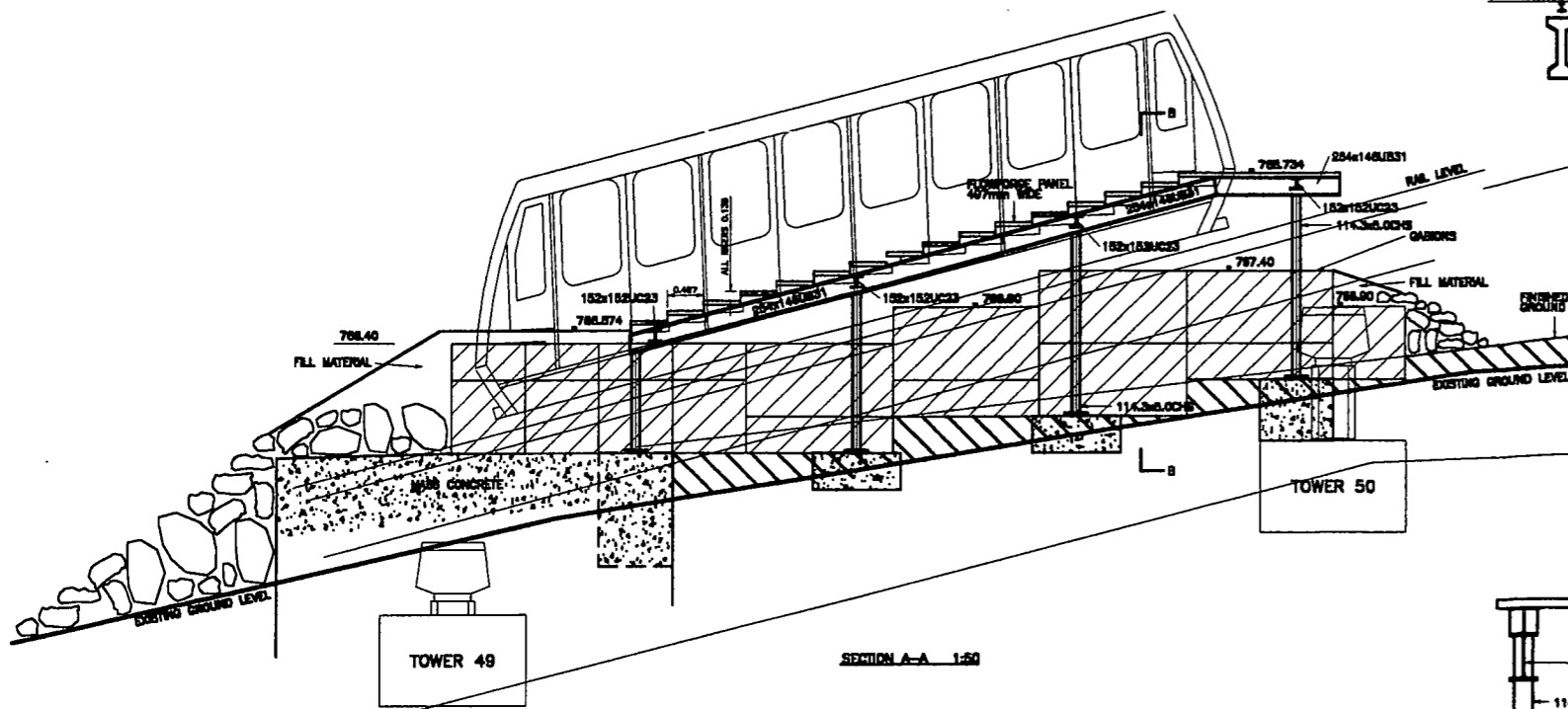
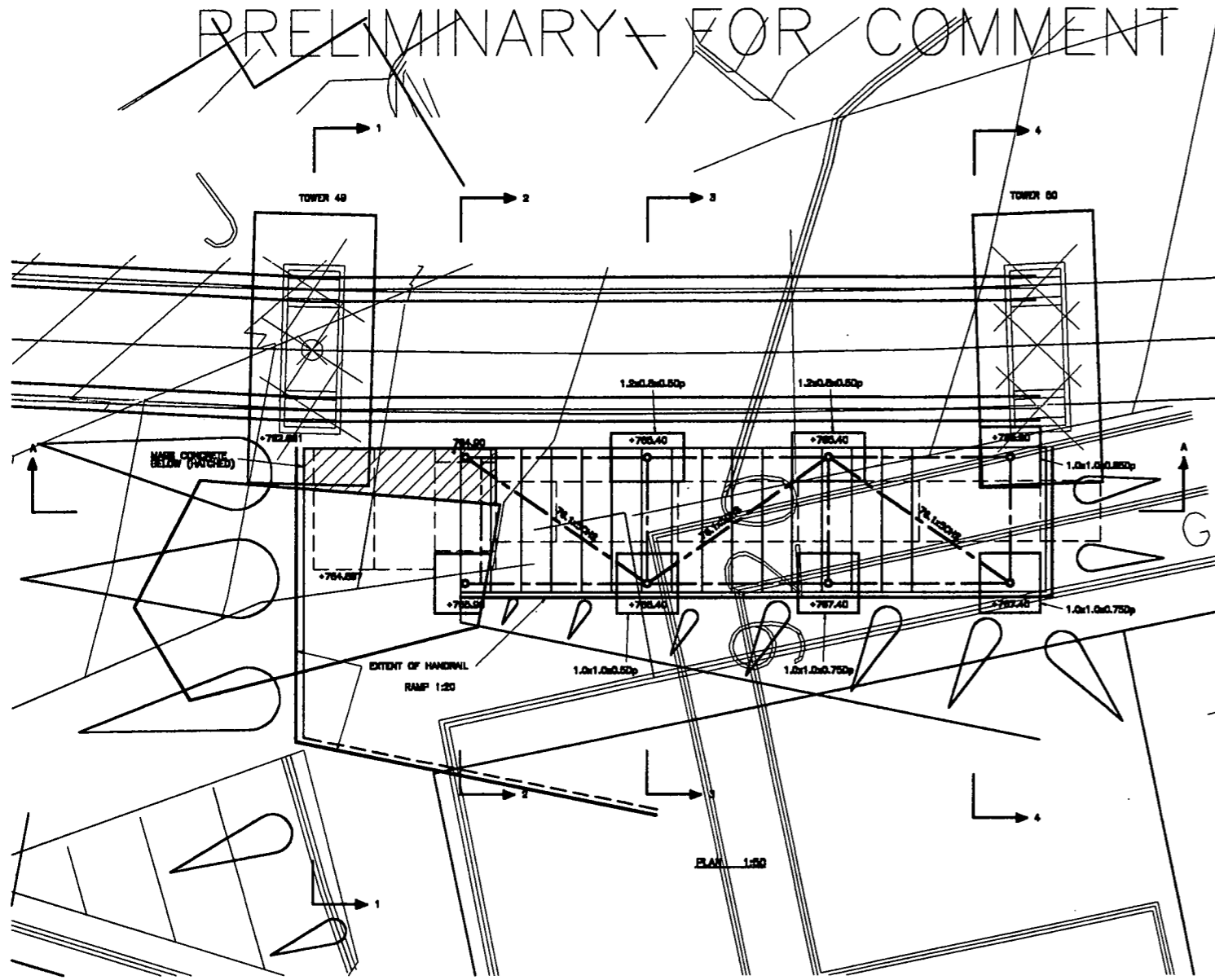
Index / Änderung / Revision	Datum / Date	Name	Ausführung / Configuration / Finishing	Ident. Nr. / Ident. no.
Allgemeintoleranzen nach DIN ISO 2768/1 (Längen u. Winkel) General tolerances as per DIN ISO 2768/1 (lengths u. angles)	M		K	
Allgemeintoleranzen nach DIN ISO 2768/2 (Form u. Lage) General tolerances as per DIN ISO 2768/2 (form u. position)			F	
Allgemeintoleranzen nach DIN EN ISO 1302 (Längen u. Winkel) General tolerances as per DIN EN ISO 1302 (lengths u. angles)	B			
Allgemeintoleranzen nach DIN EN ISO 1302 (Form u. Lage) General tolerances as per DIN EN ISO 1302 (form u. position)				
Anlage / Installation			Stück / Copies	X
Auftrag / Order				
Messstab / Scale			1/50	gez. drawn gepr. approved
Datum / Date			2001-01-31	via
Name			2001-01-31	via
Gezeichnet: 2001-02-09 via			2001-01-31	14:04:29
KONSTRUKTION KZ.: via				
Ursprungszug. Nr. / Original drawing no.			Ident. Nr. / Ident. no.	
Zeichnungs Nr. / Drawing no.			Index	
80007542N221002				

Doppelmayr Seilbahnen AG

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8-Klasse
8-C1855
- A2

PRELIMINARY FOR COMMENT



REDUCED FROM A1

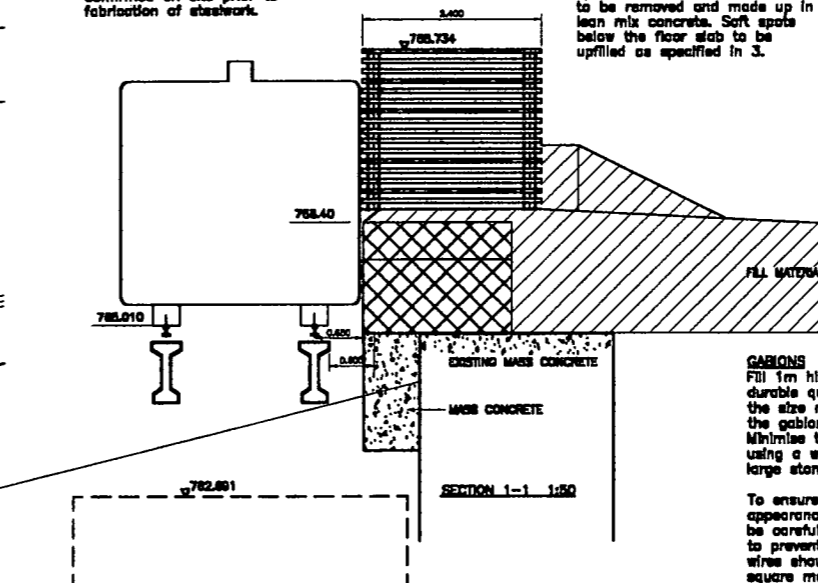
NEW STEELWORK (GALVANISED)

- 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 1985.
- All bolts to be minimum plated I.S.O. bolts grade 4.6 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 bracing during various stages of construction to be submitted to the Engineer for approval.
- Steelwork to have acid pickling preparation prior to galvanizing.
- 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.

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 around 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 0.02%.
- 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 mesh 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 6m.
- 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 5268 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. - Mild 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.
- Wall ties to be at 450mm o/c vertically 900mm o/c horizontally.
- 2 rows stainless steel bed joint reinforcement to be provided above and below structural openings extending 500mm from each edge.



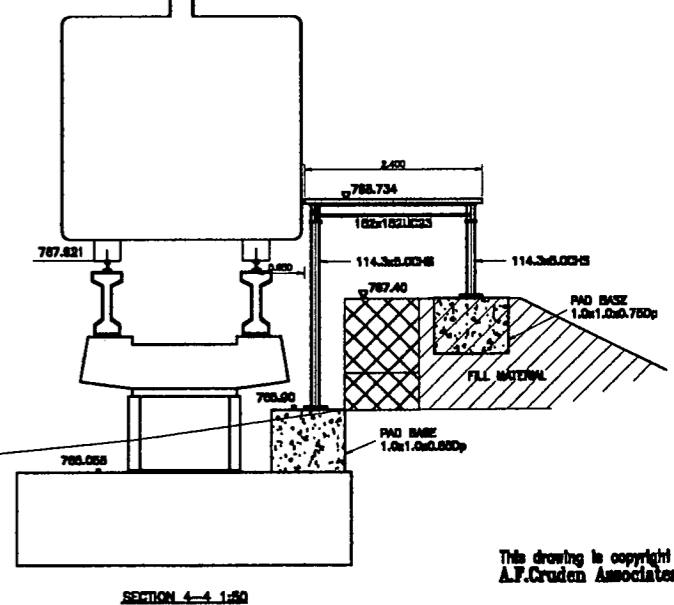
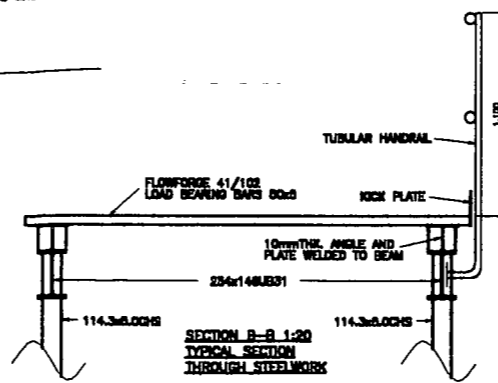
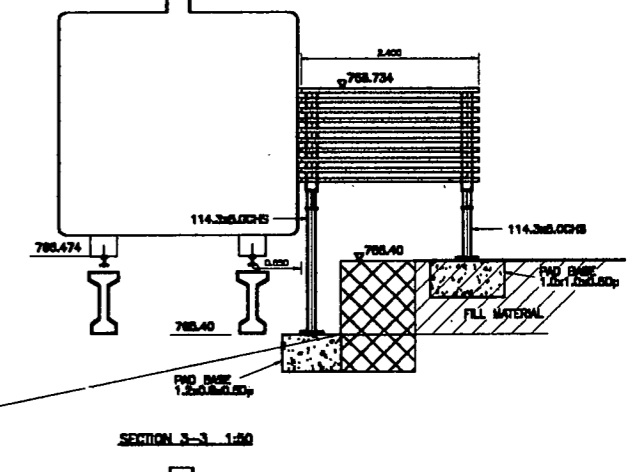
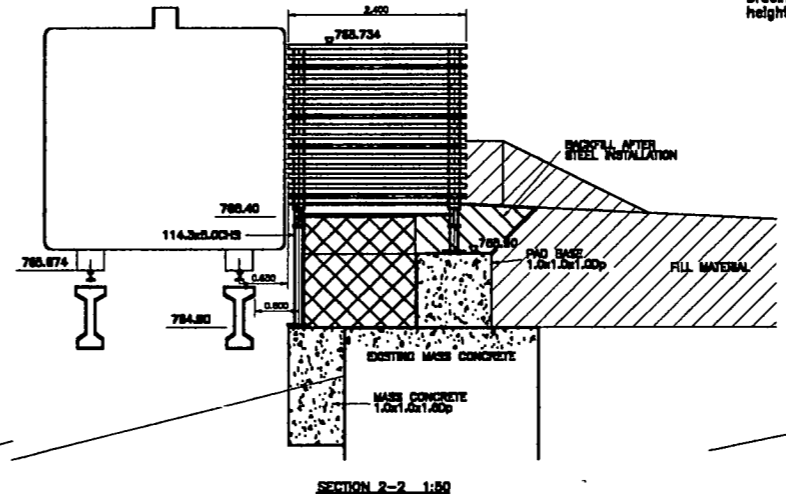
GABLES
Fill 1m high gables with hard durable quarried or rounded stone in the size range 100-200mm, keeping the gables under tension. Minimise the number of voids by using a well graded stone & avoid large stones to keep compact.

To ensure a good finished appearance all visible faces should be carefully hand-packed & braced to prevent bulging. Four bracing wires should be provided for each square metre of visible face, fixed at 1/3 & 2/3 levels for 1m deep gables. For 0.5m deep units, bracing may be fixed at the half height level, if required.

Tying wire should be threaded around two mesh openings on the front & rear faces, bracing the ends together in the middle. Tension the brace by winching until the front face is in line. Care should be taken to ensure all the braces are of uniform length to avoid a concentration of load.

Overfill the gable by 50-75mm approx. to allow for settlement.

Fold the lid down, stretch into position with the aid of a suitable lever, lace the lid to the front, the ends and to the top of the diaphragm.



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Consulting Engineers
24 Bank Street
Inverness IV1 1QU
Tel: 01463 718200
Fax: 01463 718201
email: services@afcrudonassociates.co.uk
Client:

CAIRNGORM CHAIRLIFT COMPANY

Project
CAIRNGORM FUNICULAR

Drawing
MIDDLE STATION PLATFORM DETAILS

Drawing No. CA150/5/02
Date 7/08/01

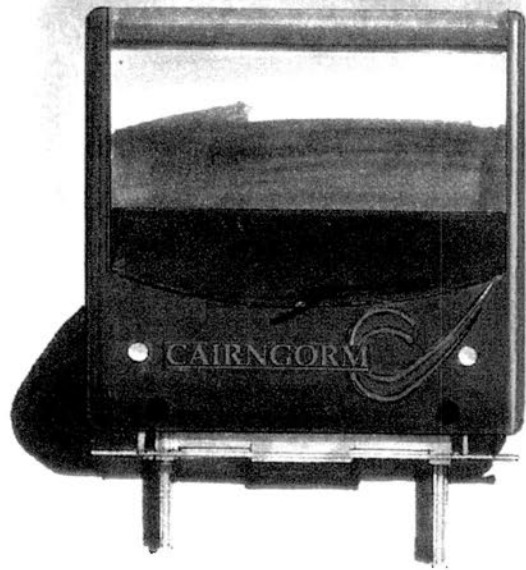
Scale NTS
Date 21/9/01

Revised A
Date 21/9/01

Updated for pricing

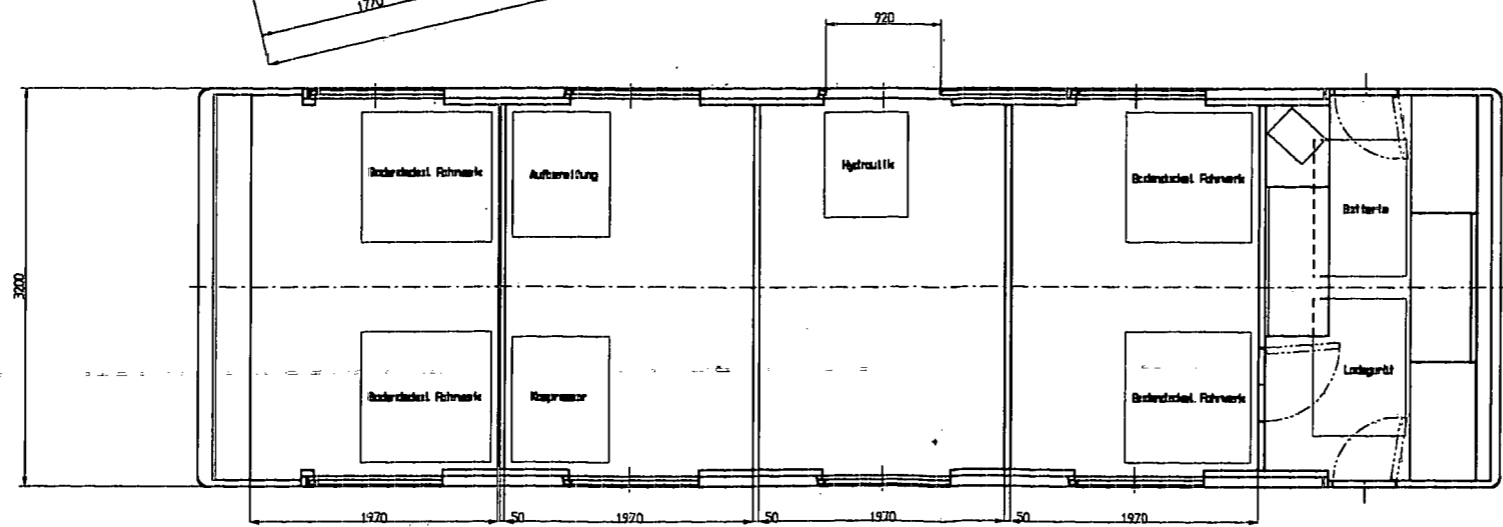
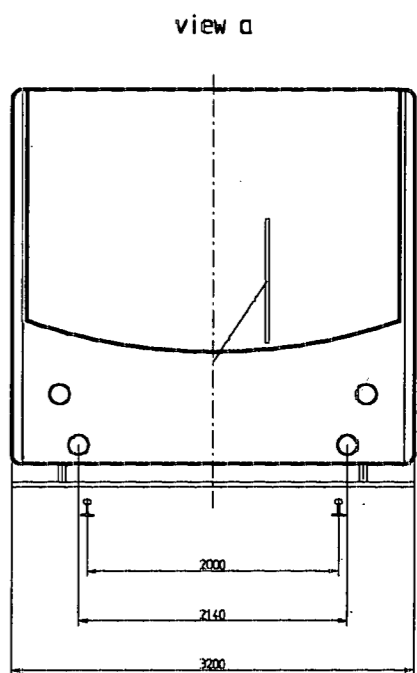
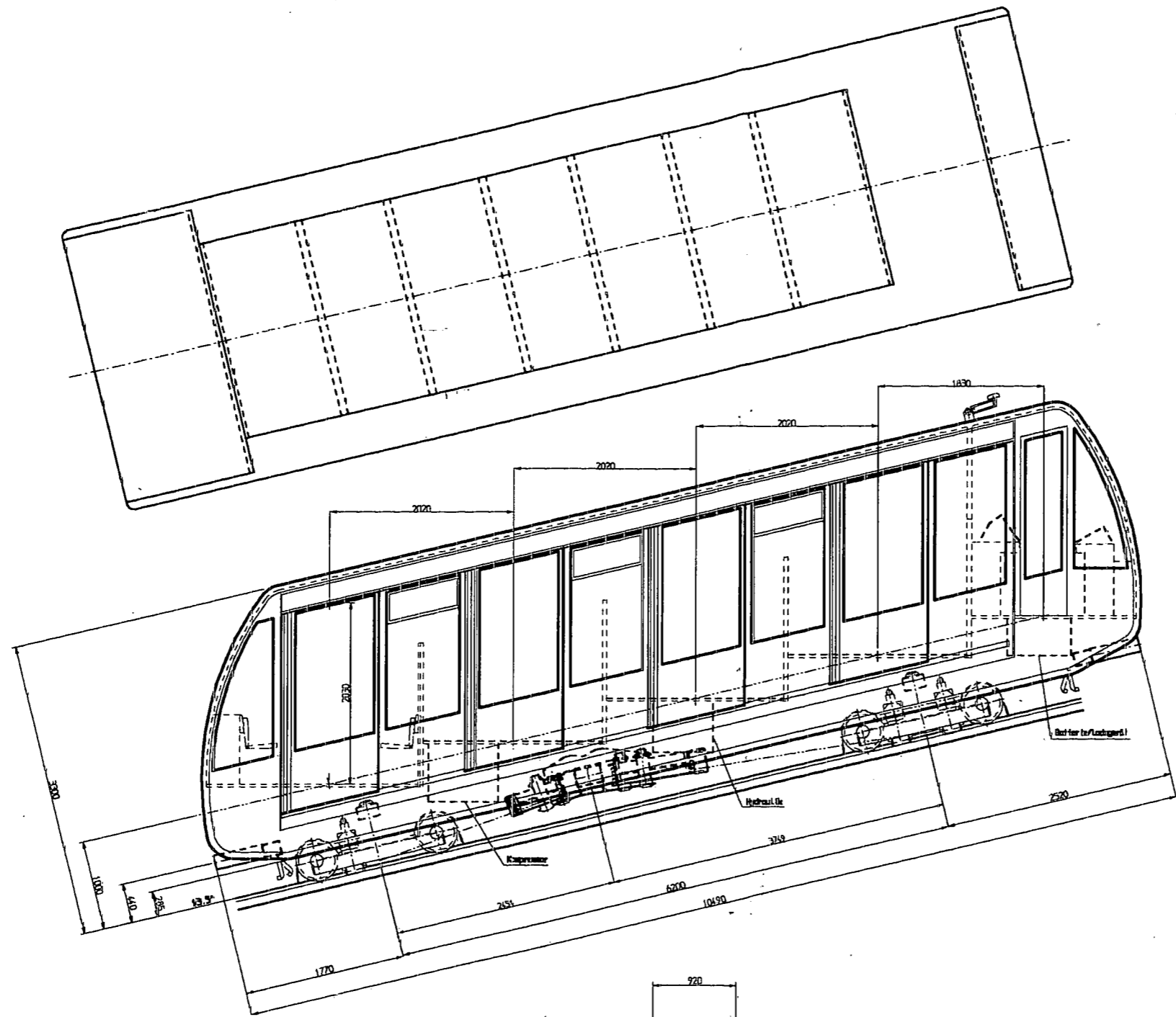
CAIRNGORM FUNICULAR RAILWAY

Body Colour : BLUE PMS 280
Graphics : TERRA COTA PMS 159
Glass colour : Tinted GREY



G GANGLOFF
BERNE-SUISSE

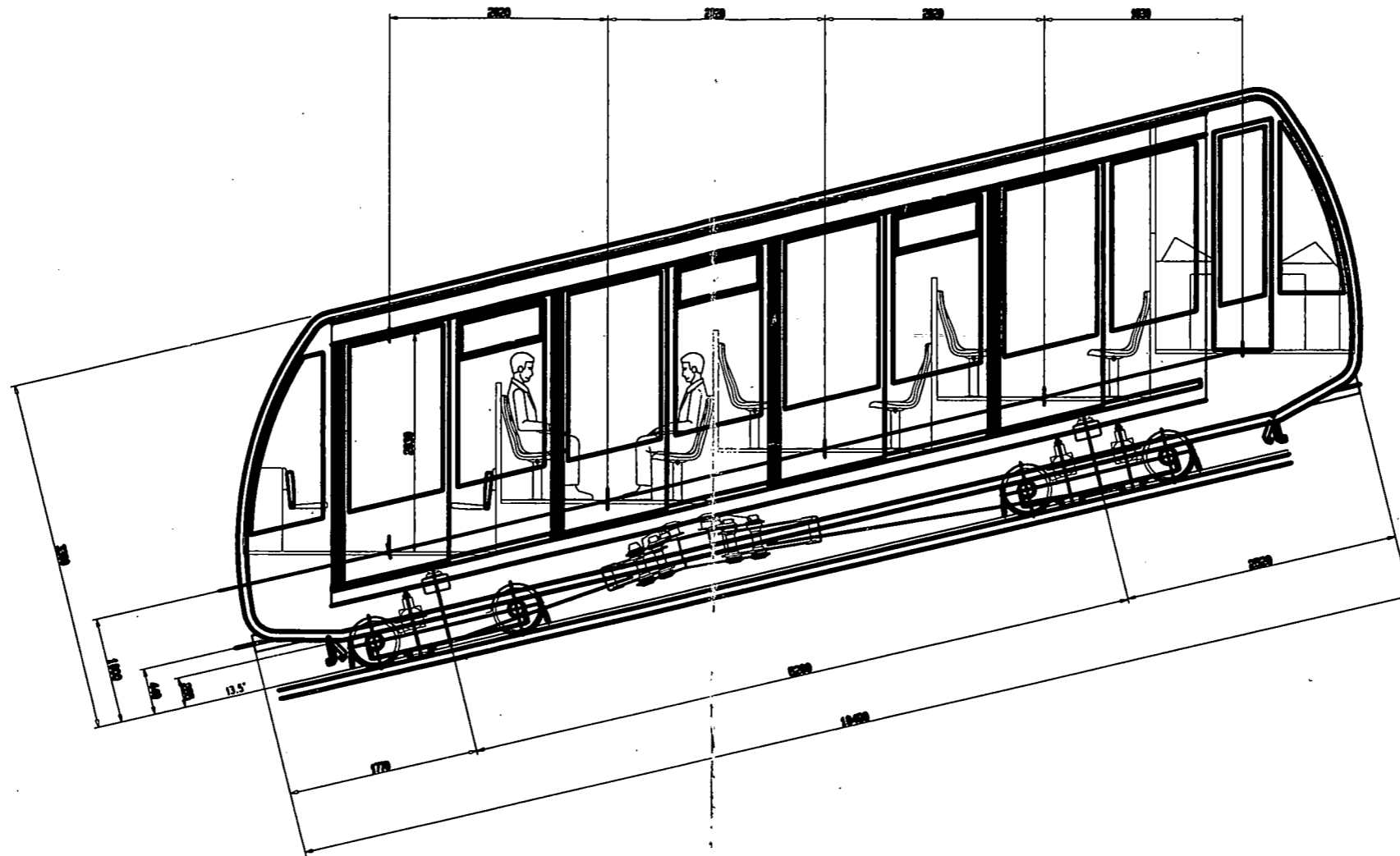
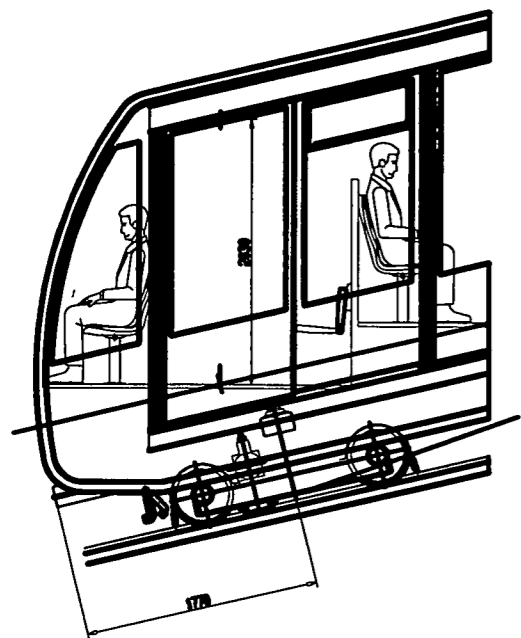
*MOVES YOUR PASSENGERS
INTO THE FUTURE*
APR. 3rd . 2000



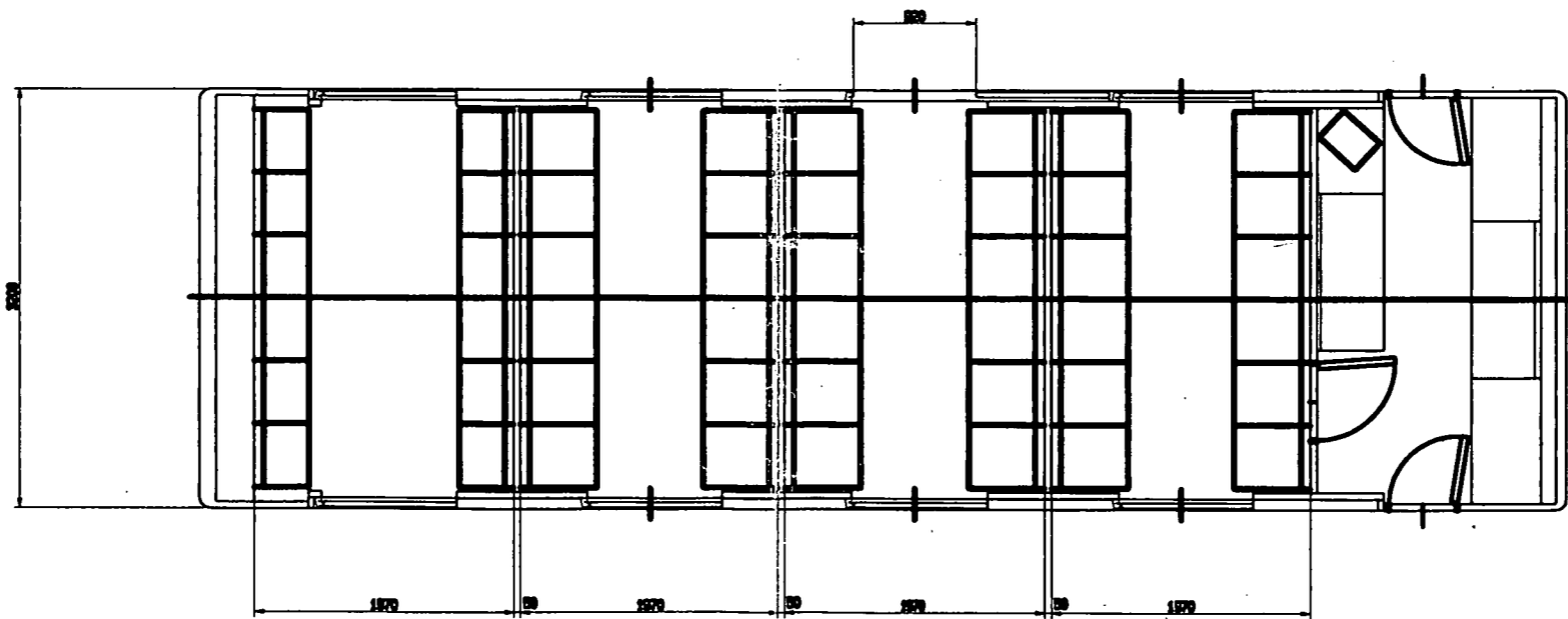
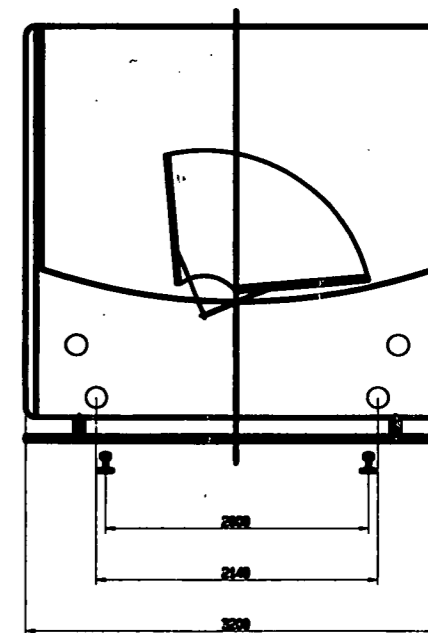
	summer	winter
compartment 1	12	30
compartment 2	12	30
compartment 3	12	30
compartment 4	12	30
total	48	120
density : 0.18 m / passenger		

Erstellt	Geprüft	Freigegeben	Rev.	Proj. Nr.	Proj. Name	Proj. Datum	Proj. Status
Publikaer Göttingen car for 120+1 passengers				0-10.22.302 C			

variant



view a

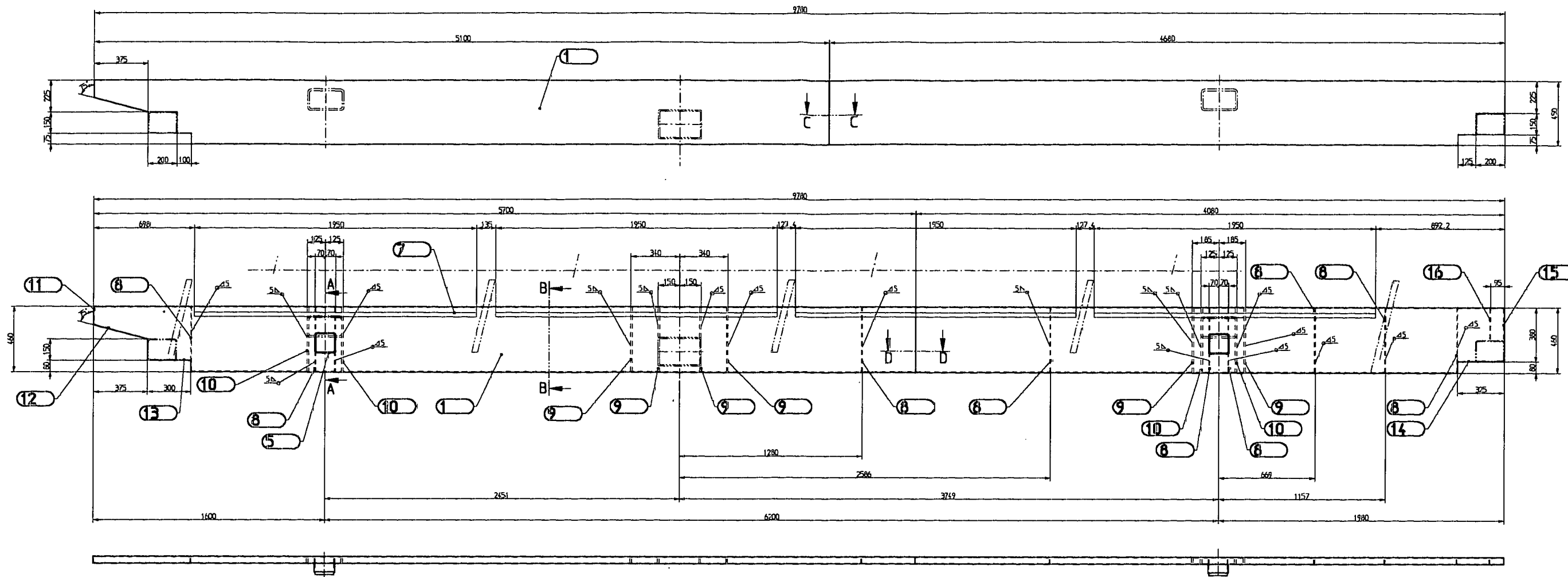


	summer	winter
compartment 1	12	30
compartment 2	12	30
compartment 3	12	30
compartment 4	12	30
total	48	120
density : 0.18 m / passenger		

/users/via/cargap1

Funicular Cairngore
car for 120+1 passengers

Carrozzino Ganzhoff AG Bern
0-10.22.302

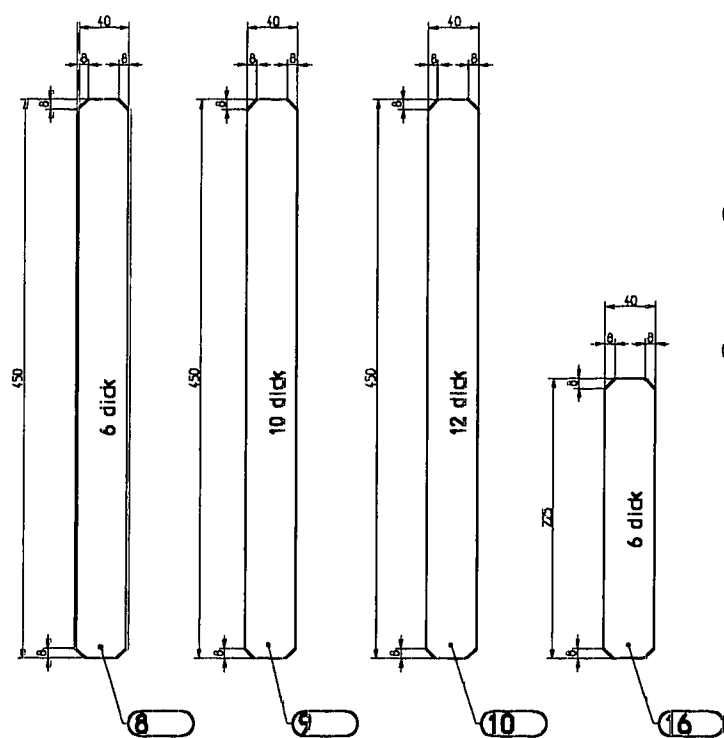


Untergurt paarweise hergestellt

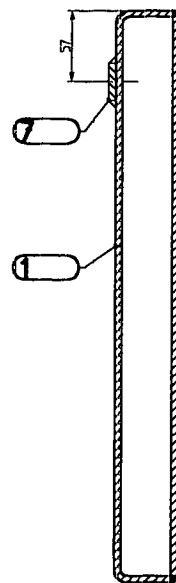
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EN 440 G3 3Si1

Schutzgas : Atal 6

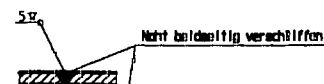
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Oberflächenmagnetrisssgeprüft



Schnitt B-B



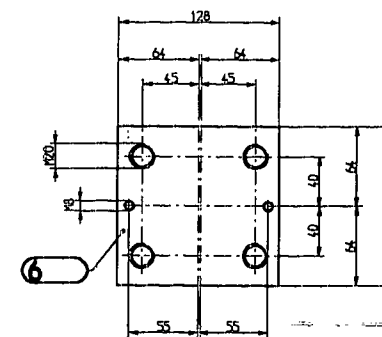
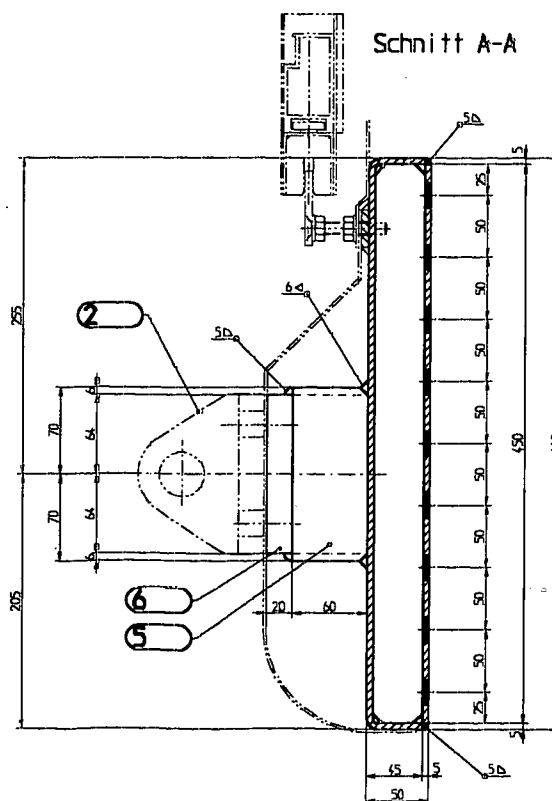
Schnitt C-C



Schnitt D-D



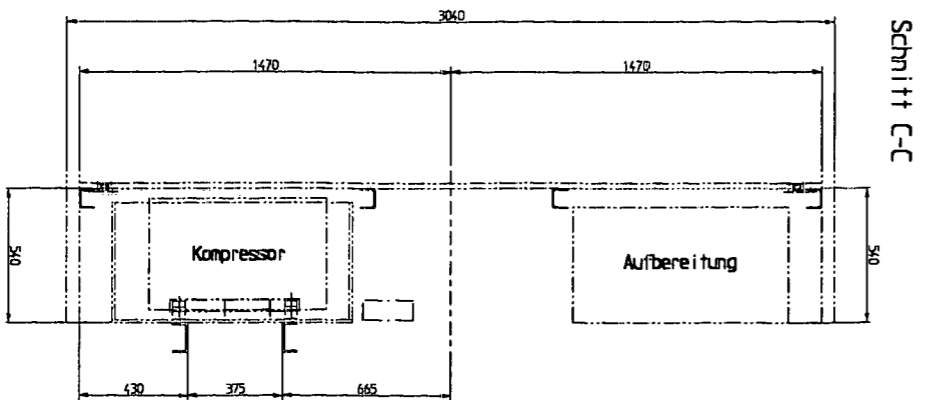
Schnitt A-A



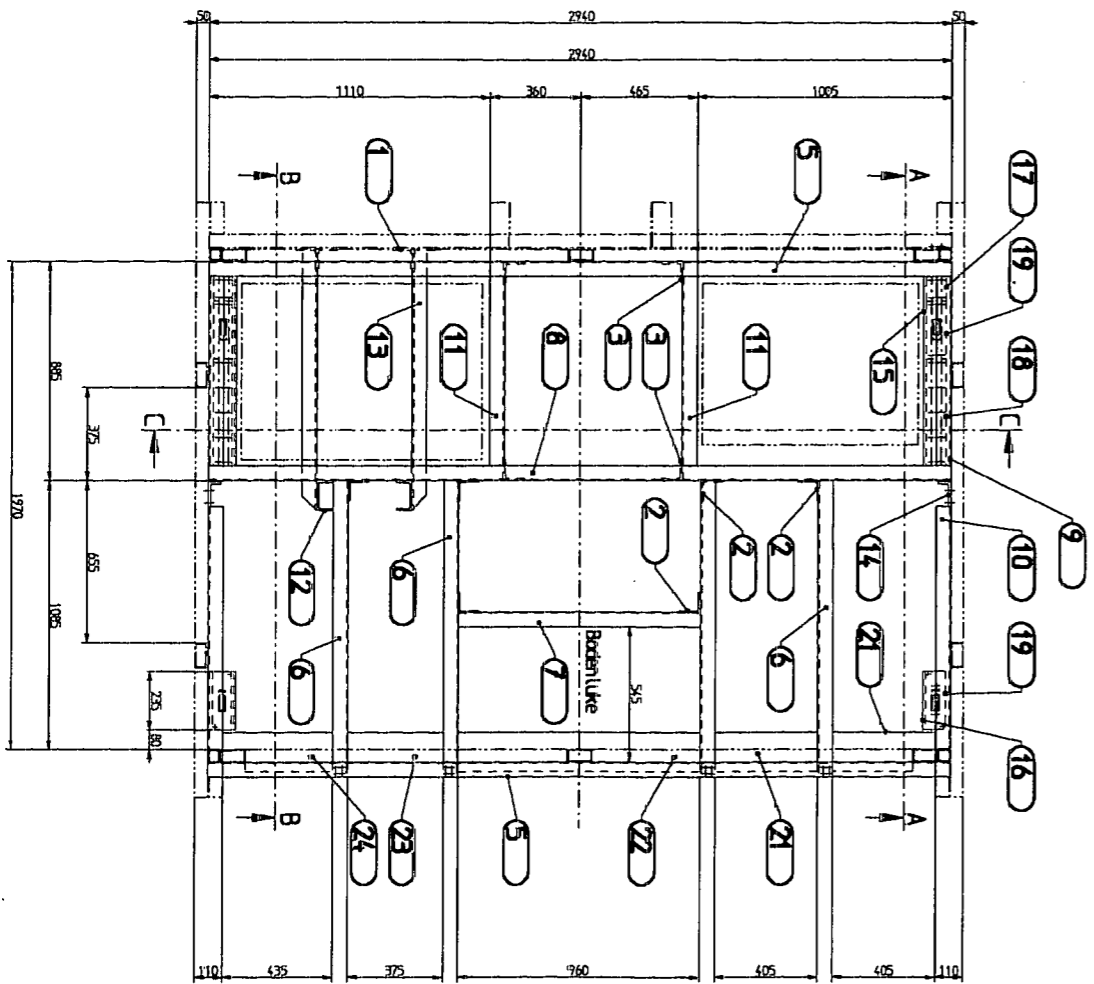
Kanten gebrochen 0,2 · 0,5 x 45°
Allgemeintoleranzen SH 250 440-a

Pos.	Menge	Bezeichnung	Material	Maßstab	Gezeichnet	Geprüft	Freigegeben
1	16	Blech 40/6	Dorex 420 225	mit Mat.-Attest			
2	15	Blech 40/5	Dorex 420 227.25	mit Mat.-Attest			
3	14	Blech 40/5	Dorex 420 127.25	mit Mat.-Attest			
4	13	Blech 40/5	Dorex 420 102.25	mit Mat.-Attest			
5	12	Blech 40/5	Dorex-420 390.6	mit Mat.-Attest			
6	11	Blech 40/5	Dorex 420 120.56	mit Mat.-Attest			
7	10	Blech 40/12	Dorex 420 450	mit Mat.-Attest			
8	9	Blech 40/10	Dorex 420 450	mit Mat.-Attest			
9	8	Blech 40/6	Dorex 420 450	mit Mat.-Attest			
10	7	Ø 30/6	SI.37-2 1950				
11	6	Ø 128/20	aus 140/20	SI.52-3 128	mit Mat.-Attest		
12	5	Ø TPS 140/140/5		SI.52-3 60	mit Mat.-Attest		
13	4						
14	3						
15	2	Abbeheben				2-16.52.010	
16	1	Untergurt Abkantprofil				2-11.10.025A	

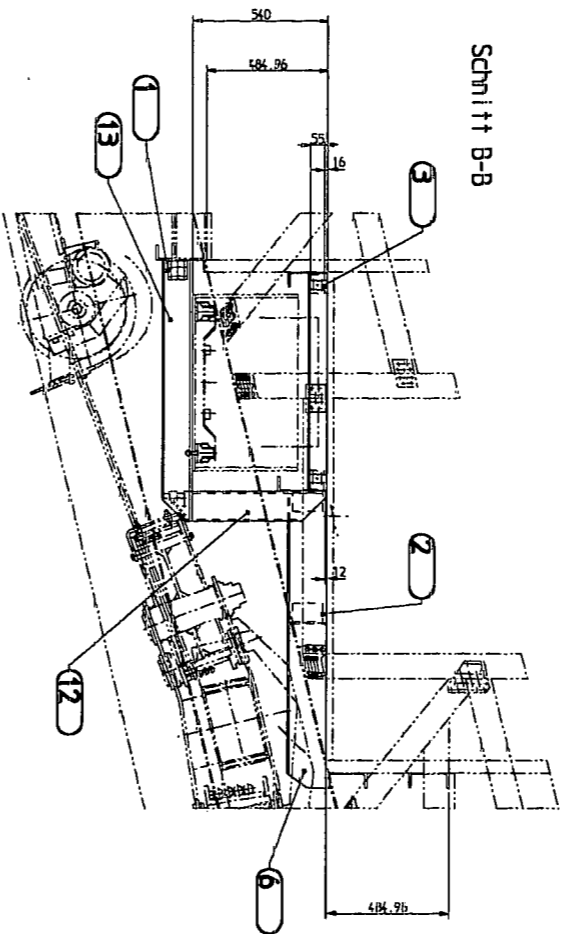
Pos.	Menge	Bezeichnung	Material	Maßstab	Gezeichnet	Geprüft	Freigegeben
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2	1	Untergurt					
3	1	Untergurt					
4	1	Untergurt					
5	1	Untergurt					
6	1	Untergurt					
7	1	Untergurt					
8	1	Untergurt					
9	1	Untergurt					
10	1	Untergurt					
11	1	Untergurt					
12	1	Untergurt					
13	1	Untergurt					
14	1	Untergurt					
15	1	Untergurt					
16	1	Untergurt					



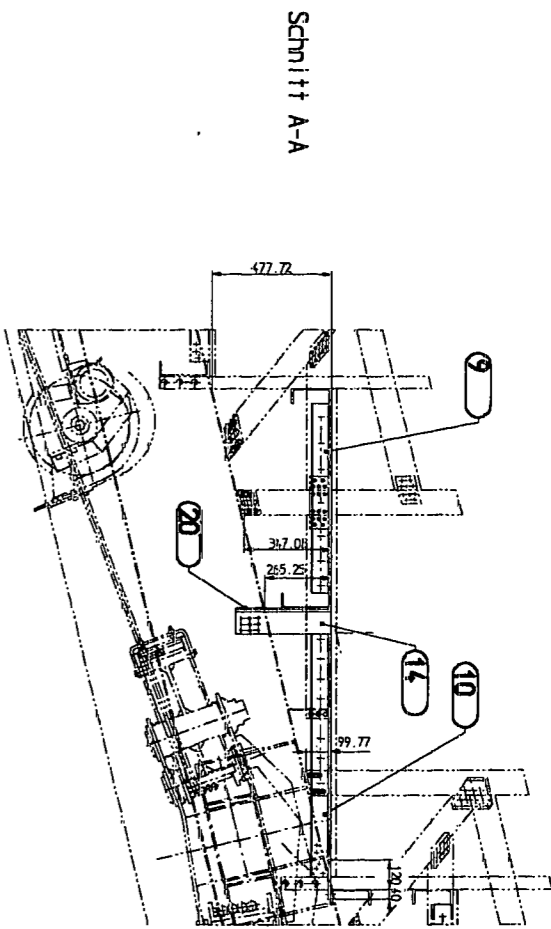
Schnitt C-C



Wagen 1 links gezeichnet
Wagen 2 rechts gegengleich



Schnitt B-B



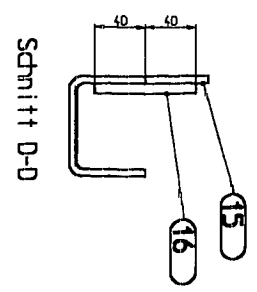
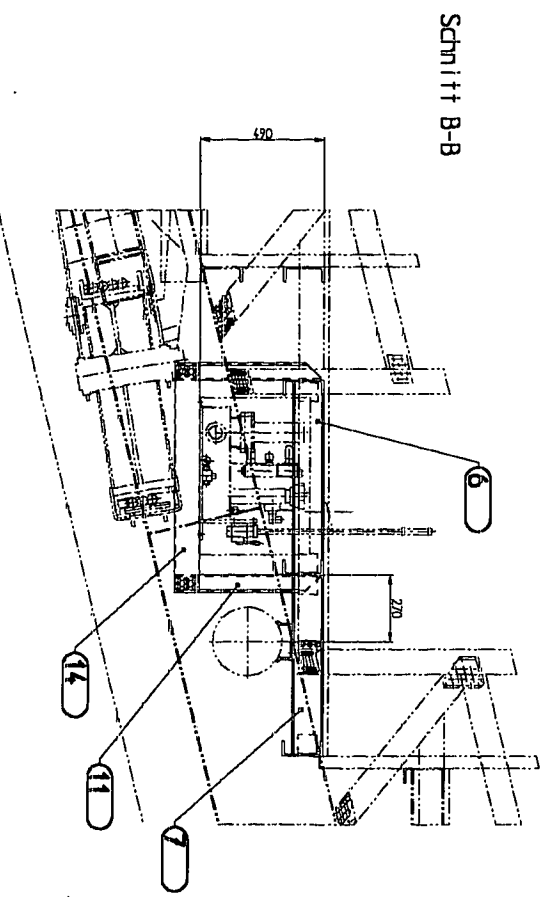
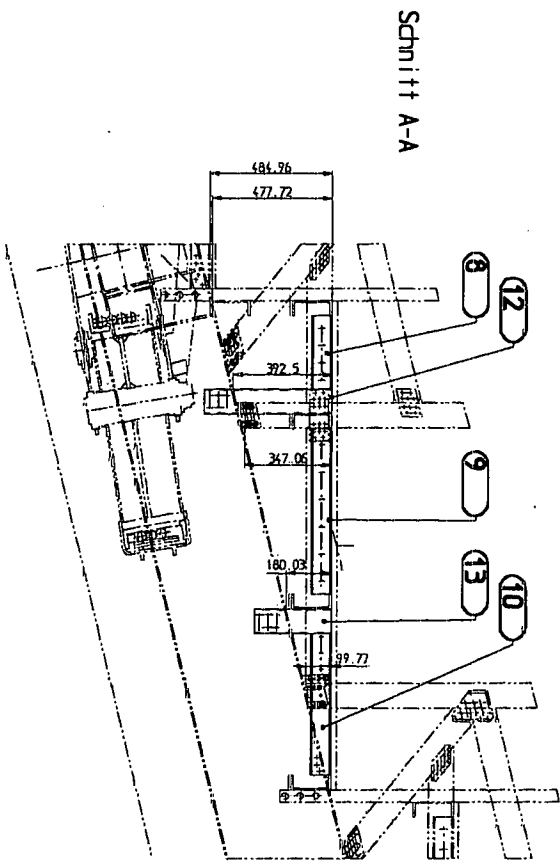
Schnitt A-A

Details Bodengerippe siehe
Zeichnung 0-12.19.33Z

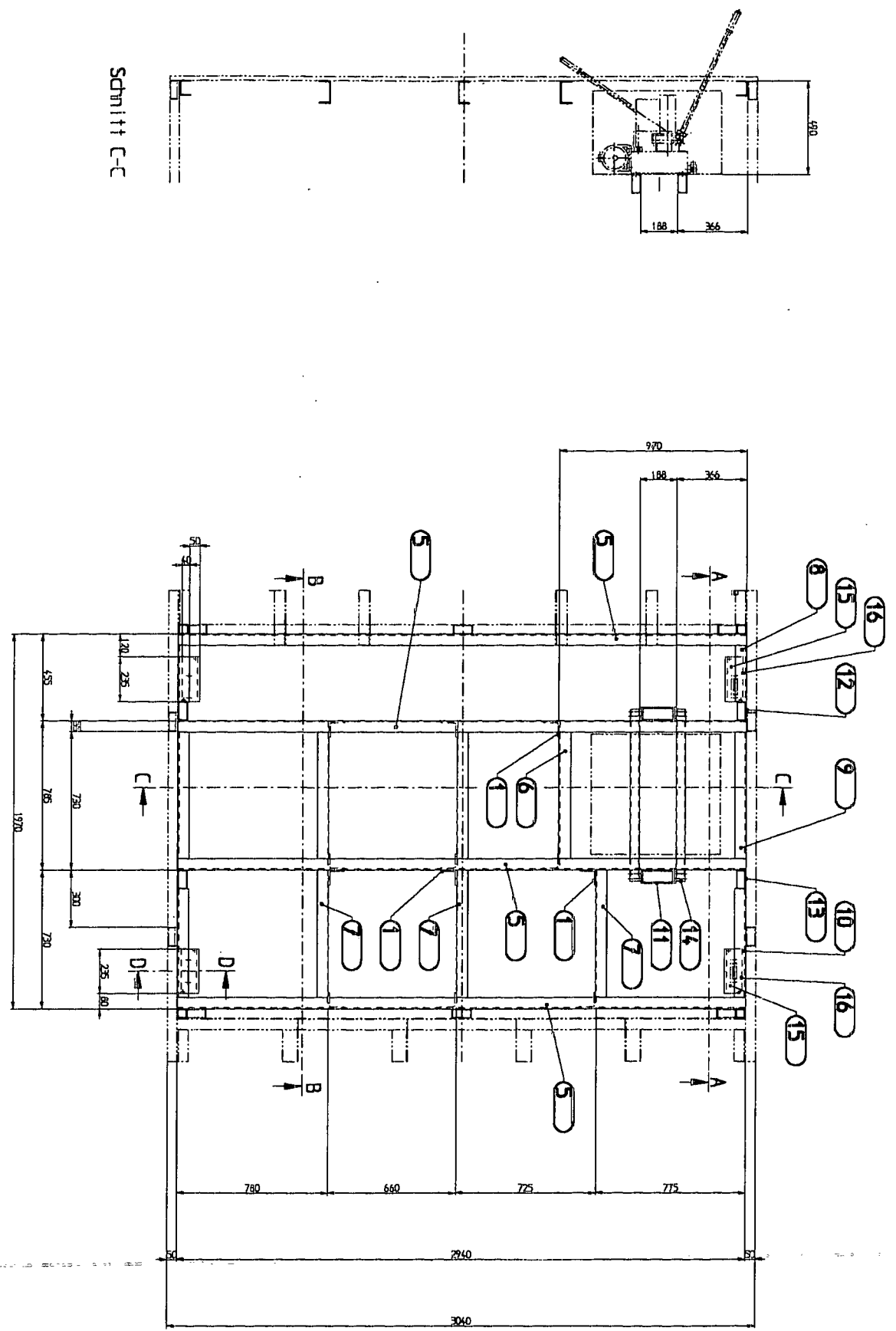
Art	Menge	Bezeichnung	Einheit	Grundeinheit	Grundeinheit	Grundeinheit
		Material through				
		Quantity				
		Replacement for				
		SSB Caligona				
		Floor frame compartment 2				
		Bodengerippe Abteil 2				
		Mesh				00.06.00
		Material				
		1:10				
Carrosserie Gangloff AG Bern 0-12.19.331						

Blatt	01/00	Proj.		Zeichner		Prüfer	
Objekt	S50 Coilwagen						
Projektiert durch	S50 Coilwagen						
Entworfen für	S50 Coilwagen						
Titel	Floor frame compartment 3						
Zeichnung	Bodengerippe Abteil 3						
Maßstab	1:10	1:2					
Blatt	0-12.19.333						
Unternehmen	Carrosserie Gungloff AG Bern						

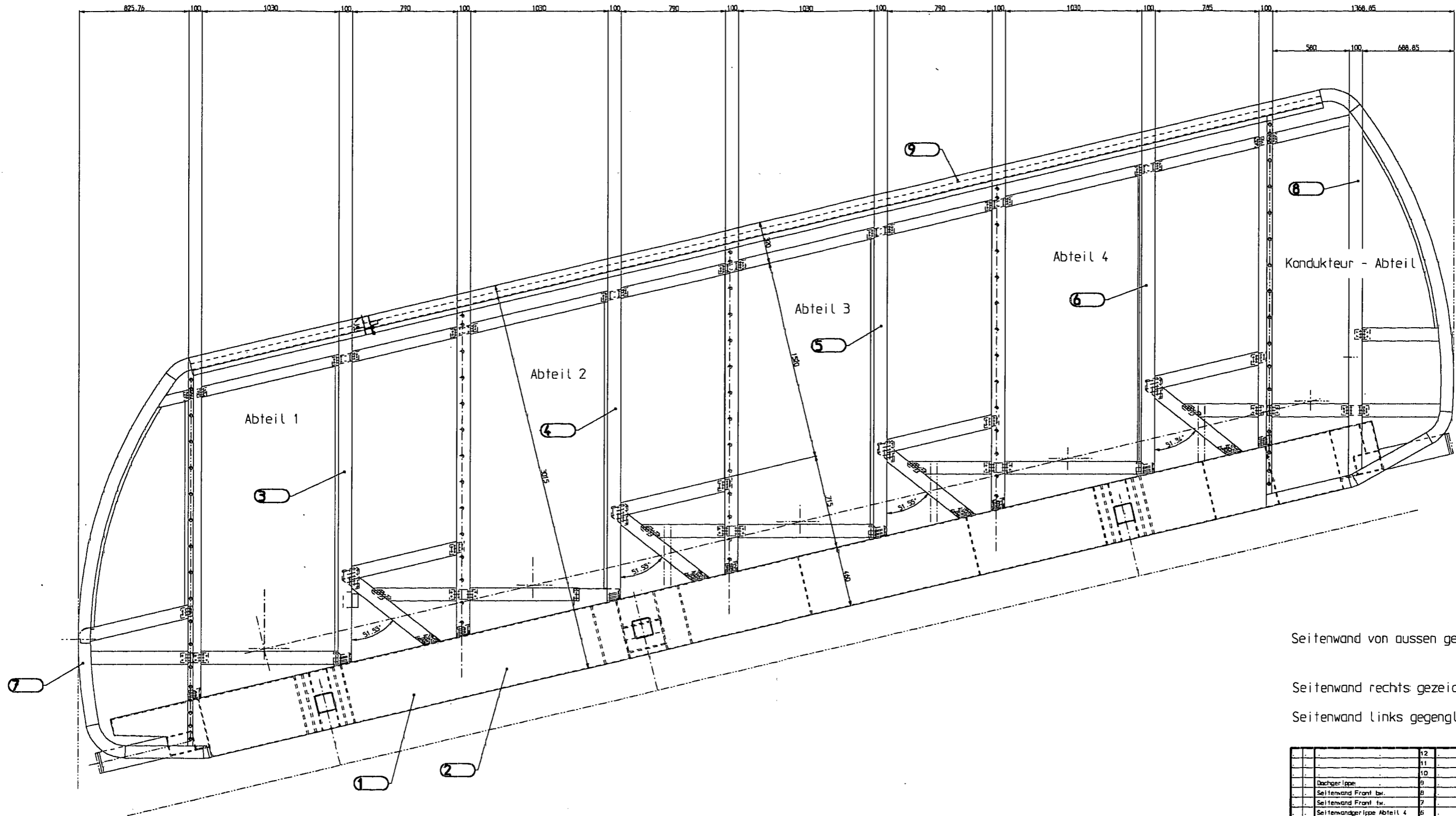
Detail's Bodengerippe siehe Zeichnung 0-12.19.334



Wagen 1 links gezeichnet
Wagen 2 rechts gegengleich



Schnitt C-C



Seitenwand von aussen gezeichnet

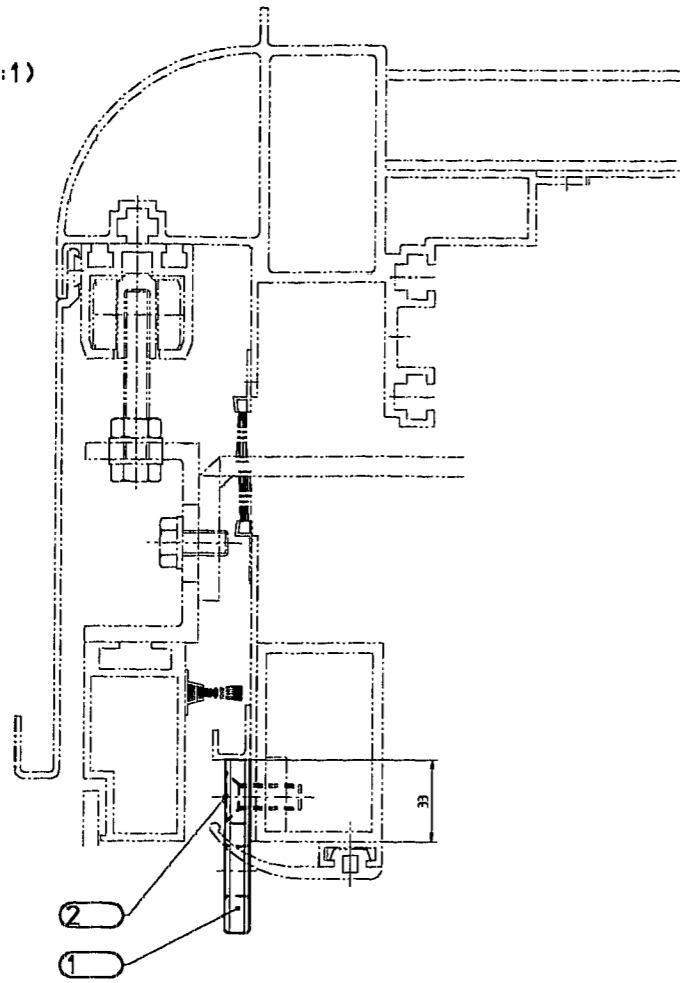
Seitenwand rechts gezeichnet

Seitenwand links gegengleich

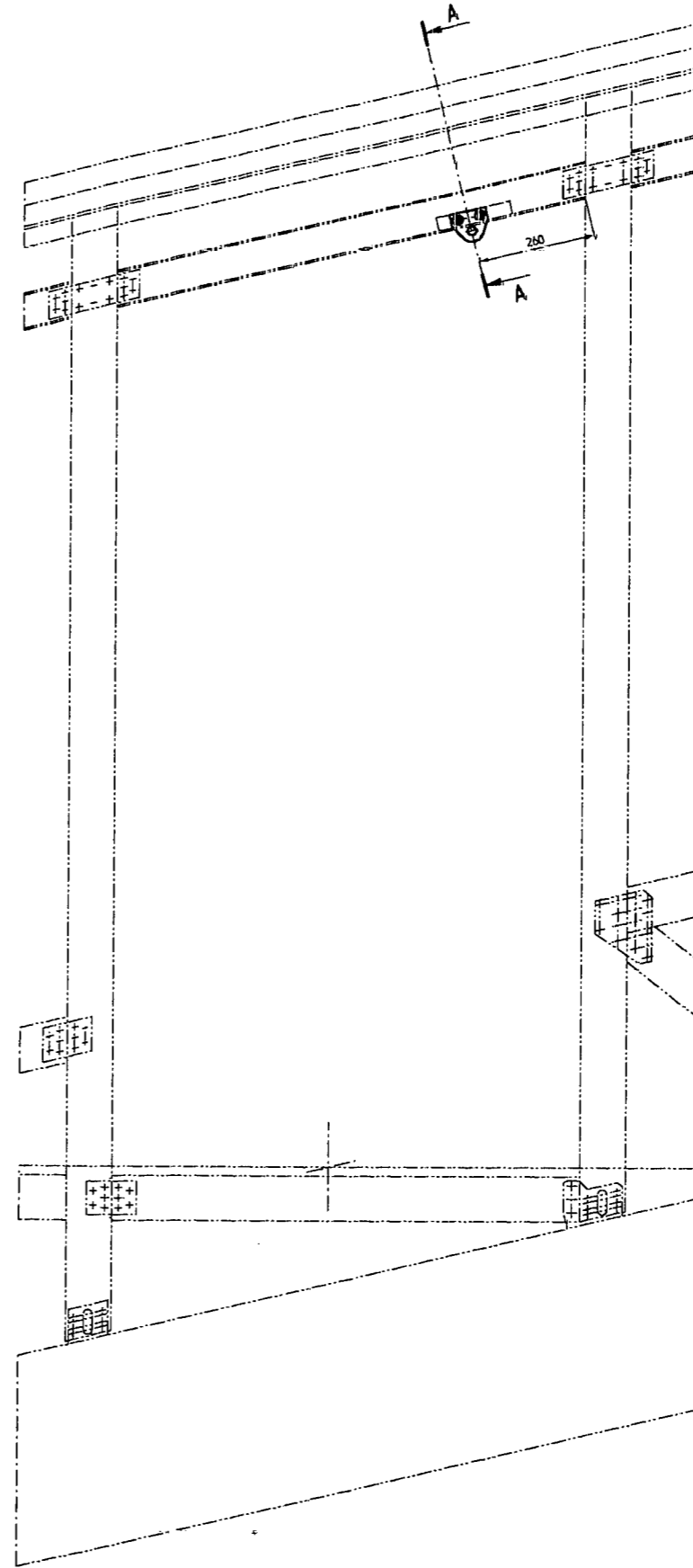
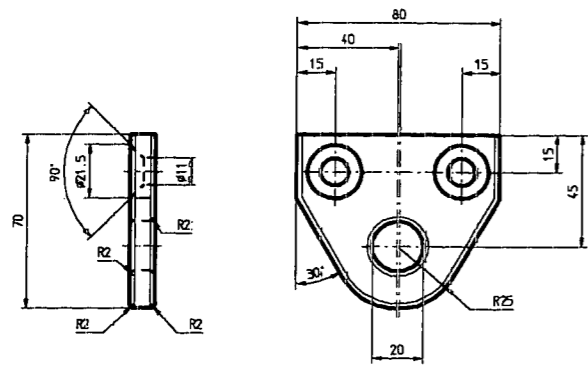
		12	
		11	
		10	
		9	
Dachgerippe	8		0-12.16.105
Seitenwand Front bw.	8		0-12.14.131
Seitenwand Front fw.	7		0-12.14.130
Seitenwandgerippe Abteil 4	6		0-12.10.663
Seitenwandgerippe Abteil 3	5		0-12.10.662
Seitenwandgerippe Abteil 2	4		0-12.10.660
Seitenwandgerippe Abteil 1	3		0-12.10.658
Unterbau Wagen 2	2		0-11.10.032
Unterbau Wagen 1	1		0-11.10.026
Abteil	1		
Material			
Verfahren			
Kontrolliert			
Gezeichnet von			
SSB Carlingam			
eidewall. assembly			
Zusammenbau Seitenwand			
Scale		1:10	
Carrocerie Gangloff AG Bern			
Network			

0-12.10.666

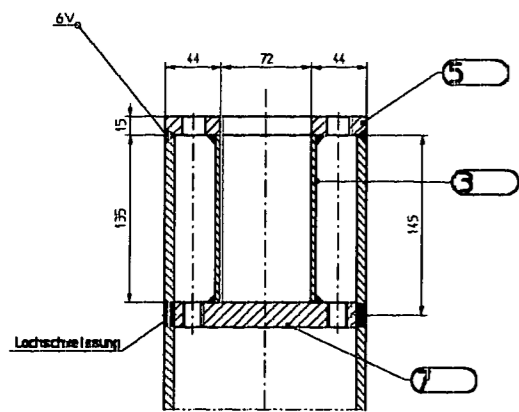
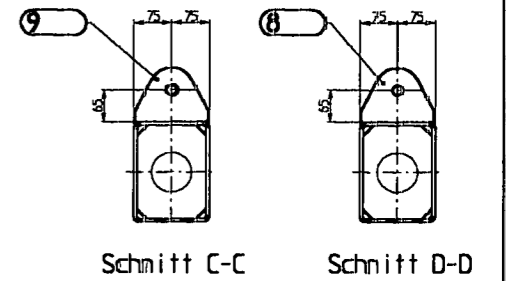
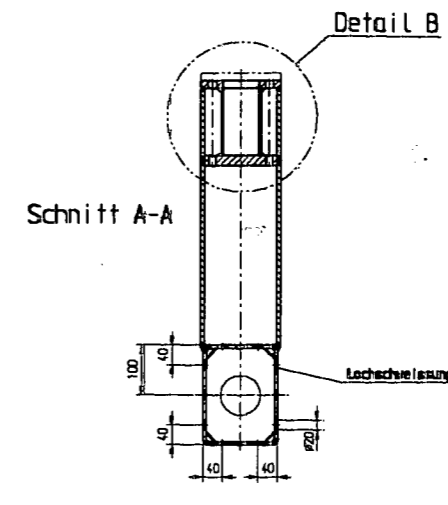
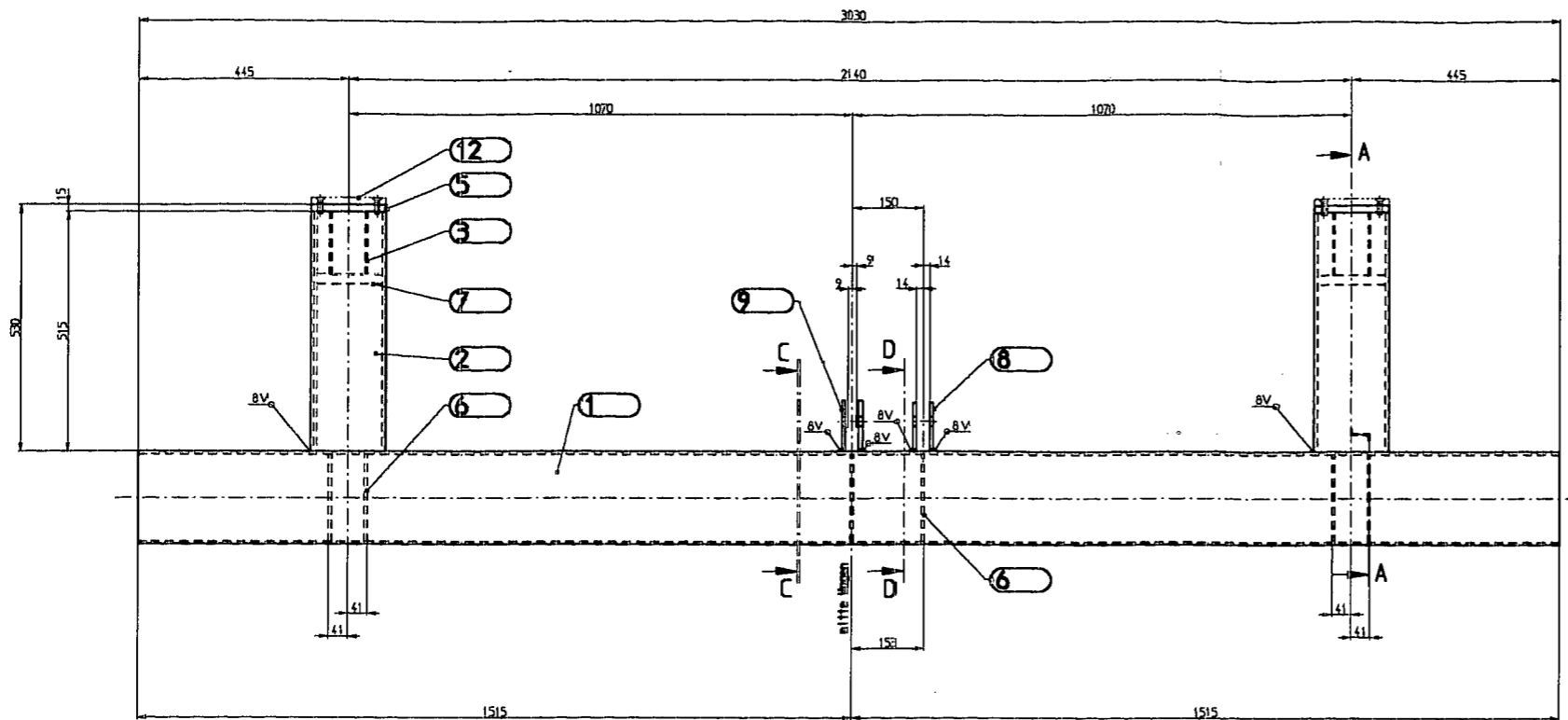
A-A (1:1)



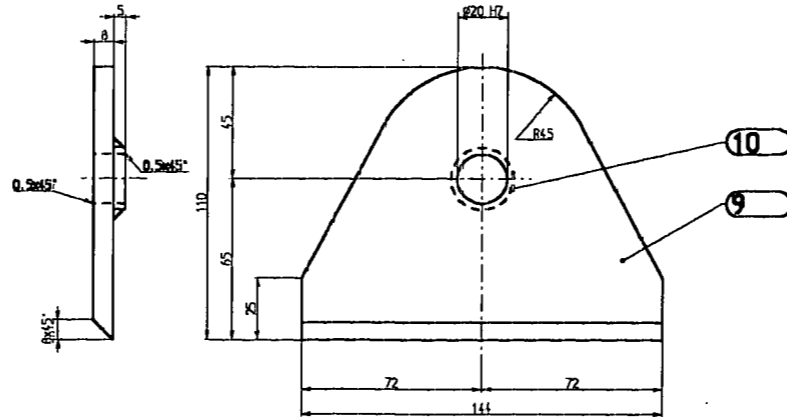
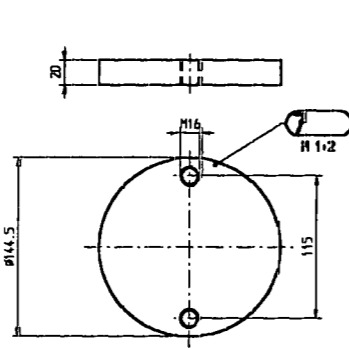
Pos.1 (1:1)



1		b			
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4		3			
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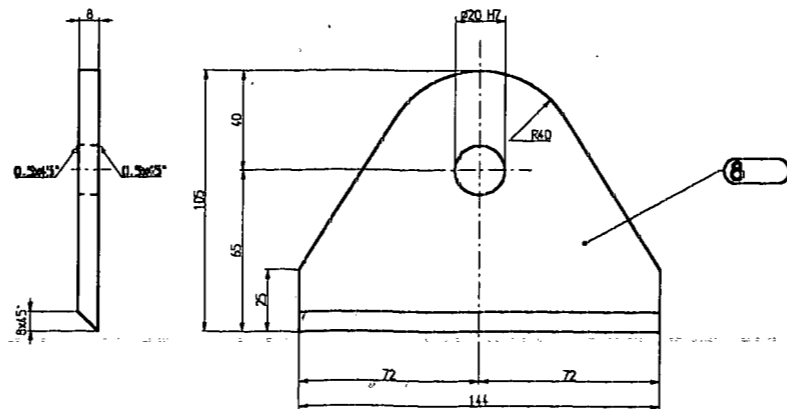
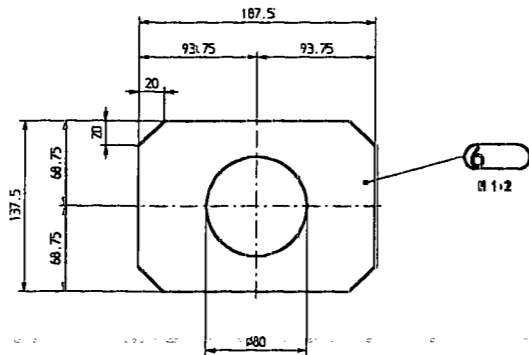
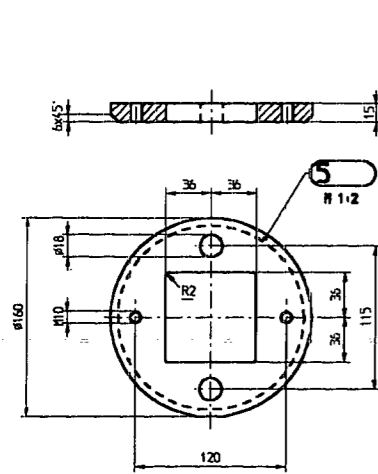
Detail B
H 1:2



Schweissen: OK AUTROD 12.51
EN 440 G3 3S11

Schutzgas: Atal 6

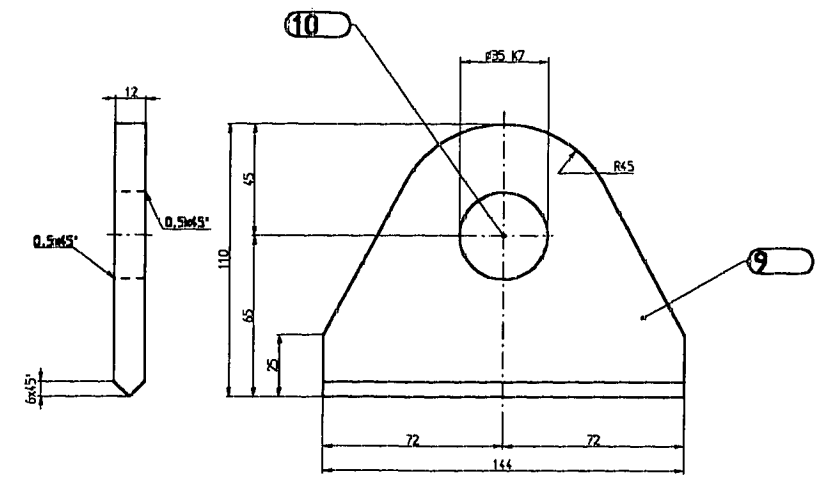
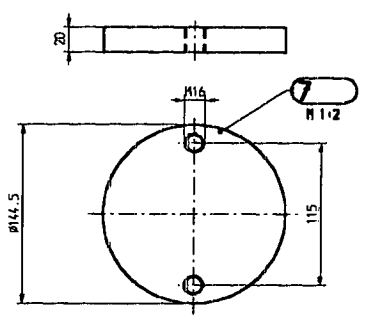
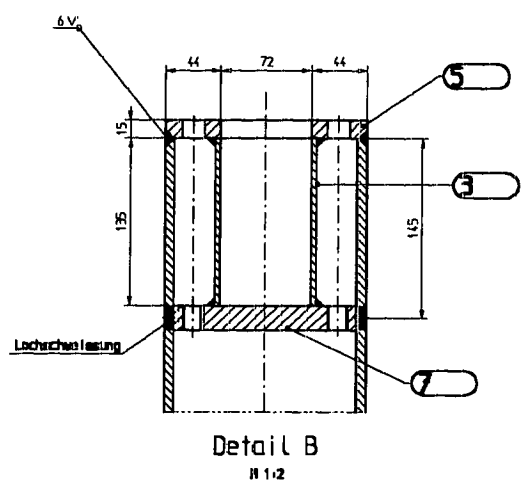
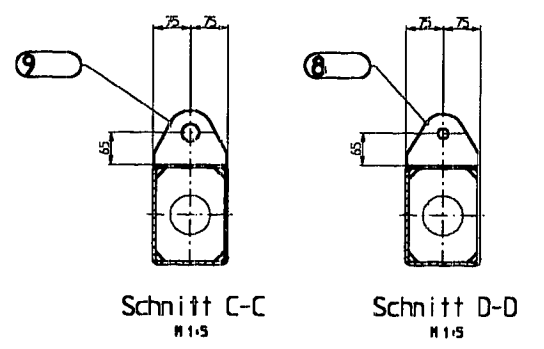
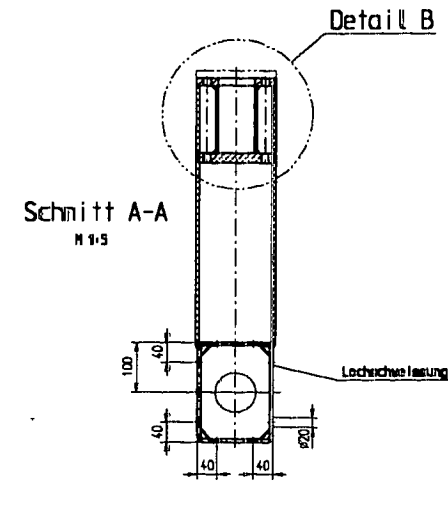
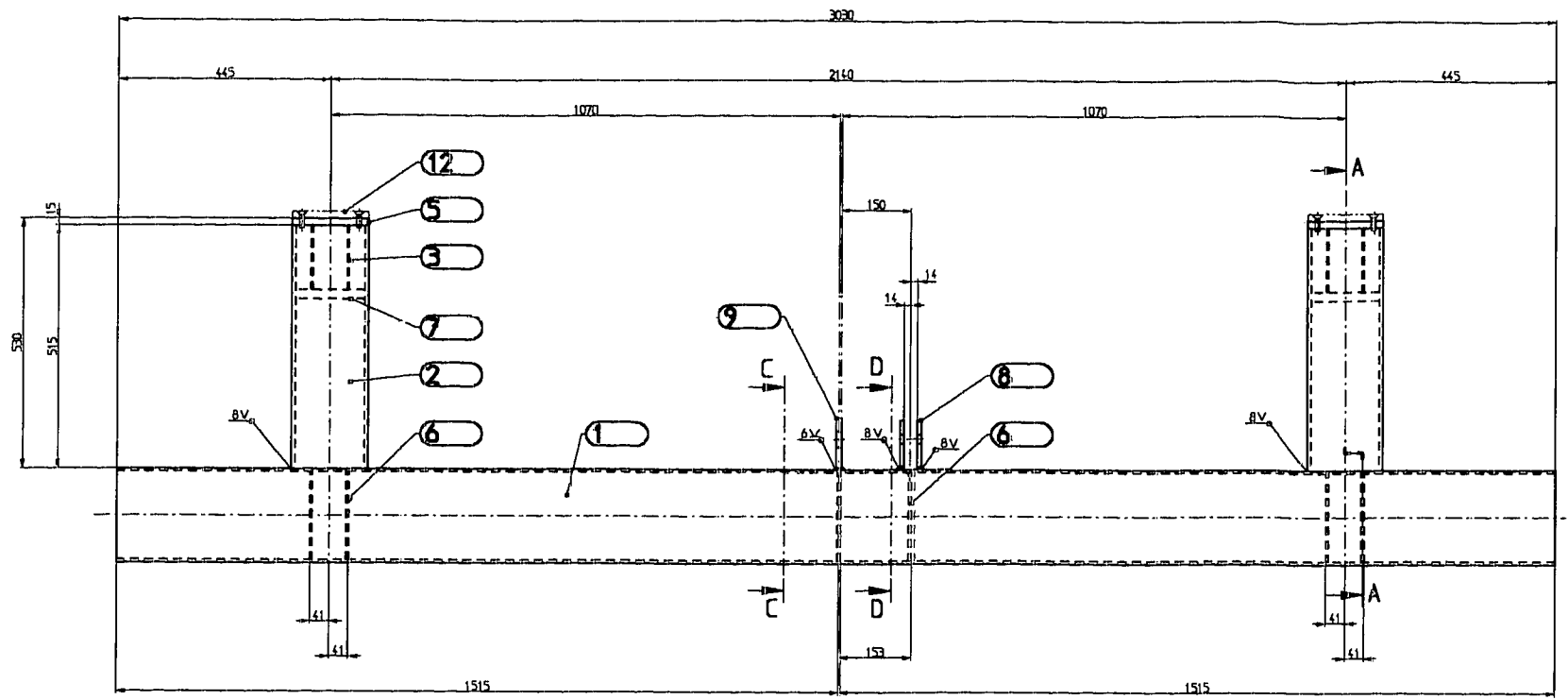
Schweissnahtprüfung: Alle vermassigten Schweißnähte werden
Oberflächenmagnetrisssgeprüft



Kanten gebrochen 0.2 ... 0.5x15°
Allgemeintoleranzen SN 258 440-a
Messlinie: 1:1
Maßstab: 1:1
Verfahren: 1:1
Zustand: 1:1
1:1

* Maß ohne Schweißzugabe

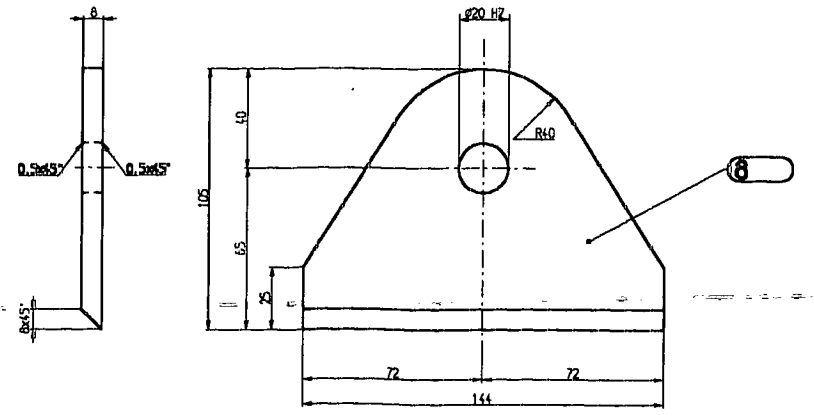
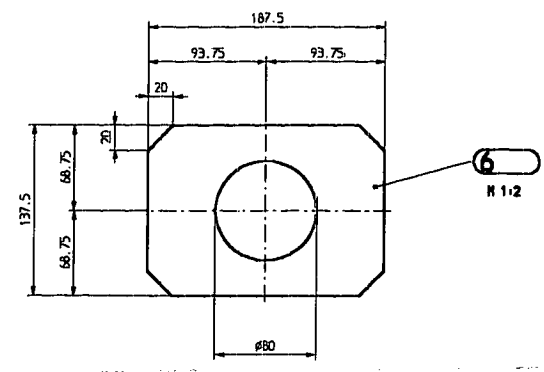
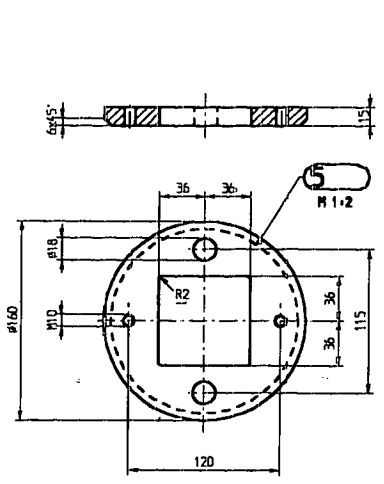
Stück	Bezeichnung	Menge	Material	Norm	Profil	Größe	Größe	Größe	Größe														
2	2	Pufferplatte	12						3-16-SB-016														
			11																				
2	2	Ø 25	10	St.52-3	5				mit Mat.-Auffest														
2	2	Blech 144/8	9	St.52-3	110				mit Mat.-Auffest														
2	2	Blech 144/8	8	St.52-3	105				mit Mat.-Auffest														
2	2	Blech 141.5	7	St.37-2	20																		
6	6	Blech 137.5/6	6	St.52-3	187.5				mit Mat.-Auffest														
2	2	Blech Ø160	5	St.37-2	15																		
2	2	TPS 80/80/4	3	St.52-3	x135				mit Mat.-Auffest														
2	2	Ø 160/145	2	St.35	x515				mit Mat.-Auffest														
1	1	TPS 200/150/6	1	St.52-3	x300				mit Mat.-Auffest														
<p>Materialangaben:</p> <table border="1"> <tr> <td>Material</td> <td>Größe</td> <td>Größe</td> <td>Größe</td> </tr> <tr> <td>Material</td> <td>Größe</td> <td>Größe</td> <td>Größe</td> </tr> </table> <p>Revised through:</p> <table border="1"> <tr> <td>Revised</td> <td>By</td> <td>Date</td> </tr> <tr> <td>Revised</td> <td>By</td> <td>Date</td> </tr> </table> <p>Gezeichnet für: Kopie für: SSB Collingram buffer beam, valley side Pufferträger fw. Wagen 1 Links Date: 11.10.02 Scale: 1:1 Project no: 115 1:2 1:1</p>										Material	Größe	Größe	Größe	Material	Größe	Größe	Größe	Revised	By	Date	Revised	By	Date
Material	Größe	Größe	Größe																				
Material	Größe	Größe	Größe																				
Revised	By	Date																					
Revised	By	Date																					



Schweißen: OK AUTROD 12.51
EN 440 G3 3Si1

Schutzgas : Atal 6

Schweißnahtprüfung : Alle vermassten Schweißnähte werden Oberflächenmagnetrisprüft



* Mass ohne Schweisszugabe

Kanten gebrochen 0.2 ... 0.5x5'
Allgemeintoleranzen SN Z58 440-n
Toleranzen (mm) 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.2 1.5 2.0 2.5 3.0 4.0 5.0 6.3 8.0 10 12 15 20 25 30 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000 6300 8000 10000

Pos.	Menge	Bezeichnung	Material	Norm	Material	Norm	Material	Norm
2	2	Pufferplatte	12				3-16.58.016	
1	1	Gelenklager	GE 20 C	10			5107	
1	1	Blech 144/12	7	St. S2-3	110		mit Mat.-Attest	
2	2	Blech 144/8	8	St. S2-3	105		mit Mat.-Attest	
2	2	Blech 114.5	7	St. S2-2	20			
6	6	Blech 137.5/6	6	St. S2-3	187.5		mit Mat.-Attest	
2	2	Blech 1160	5	St. S2-2	15			
2	2	TPS 80/80/4	3	St. S2-3	+135		mit Mat.-Attest	
2	2	TPS 160/145	2	St. S2-3	+515		mit Mat.-Attest	
1	1	TPS 200/150/6	1	St. S2-3	+3000		mit Mat.-Attest	

SSB Caligaris
buffer beam, valley side
Pufferträger fw.
Wagen 2 rechts

0-11.10.024