

LINE	No. REQD.		MARK	DESCRIPTION	MAT'L	LENGTH		R.B.	LINE	REMARKS	SPlicing _____ ALLOWED		WEIGHT
	SHIP	FAB.									CUTTING	INSTRUCTIONS	
1	30		A33	INSULATION 570 x 76.2 (3")	SEE SPEC'S.	2438 (8'-0")				PLAIN MATERIAL			
3													
4													
5	12		B33	BAR 25.4 x 3.18 (1" x 3/8")	A36	6096 (20'-0")							
6													
7													
8	12		C33	⌀ 573 x 3.42 (10 GA.)	A36	6096							
9													
10													

PLAIN MATERIAL

INSULATION, RETAINING ⌀ & BAR AT INNER WEB  
OF RING GIRDER.

GENERAL NOTES:

- 1.) FOR FIELD ASSEMBLY SEE DWG. E1C.
- 2.) INSULATION INSTALLED BY B.S. LTD.  
FOR CUTTING & NESTING OF INSULATION  
SEE DWG. N1a

3R/300940

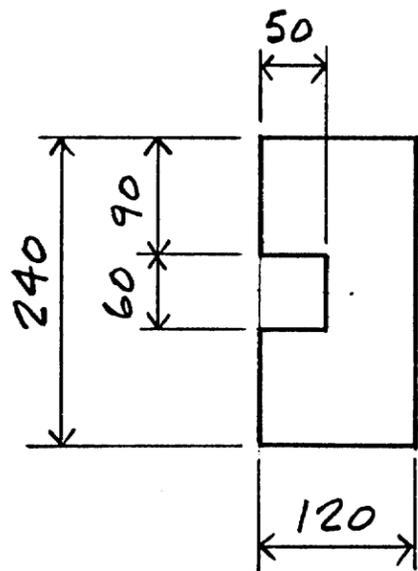
No. DIV.	1	2	3	4	5	6	7	8	9	10	HOLES	PAINT & PREP	REVISION	CONTRACT	DWG. No.	REV.		
											DATE	CH'KD	DATE	NO BY	DATE	1420	33a	1
BRITAIN STEEL LTD. NEW WESTMINSTER B.C.												MADE	DATE	NO BY	DATE	INSUL. QTY. & THICKNESS		
												GA.	JUNE					
												NOV	1983					
												SEE	MEMO					



LINE	No. REQD.		MARK	DESCRIPTION	MAT'L	LENGTH		R.B.	LINE	REMARKS	SPLICING _____ ALLOWED		WEIGHT
	SHIP	FAB.									CUTTING	INSTRUCTIONS	
2	7		D33	INSULATION 585 x 76.2 (3")	SEE SPEC'S.	2 438 (8'-0")				PLAIN MATERIAL			
5	3		F33	ϕ 585 x 3.42 (10 GA.)	A36	6 096 (20'-0")							
8	2		G33	BAR 25.4 x 3.18 (1" x 3/8")	A36	6 096							
10	2		H33	L 25.4 x 25.4 x 3.18 (L 1" x 1" x 3/8")	A36	6 096							
12	3		K33	ϕ 120 x 6.35 (1/4")	A36	240							

PLAIN MATERIAL

INSULATION, RETAINING ϕ, BAR AND ANGLE AT HAUNCH.



3-REQ'D. ~ STIFFENER ~ MK. K33

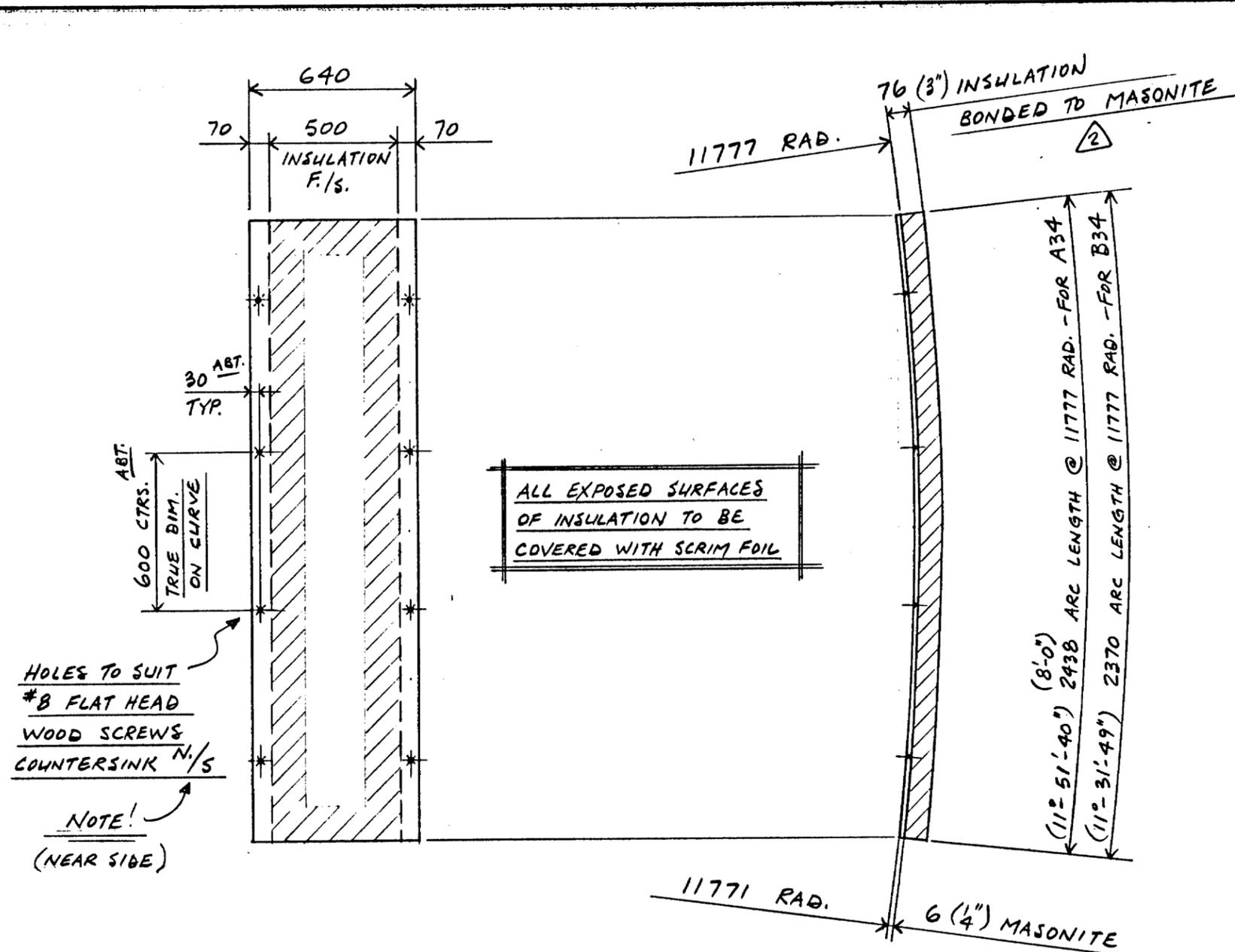
GENERAL NOTES:

- 1.) FOR FIELD ASSEMBLY SEE DWG. E5a.
- 2.) INSULATION INSTALLED BY B.S. LTD.  
FOR CUTTING AND NESTING OF  
INSULATION SEE DWG. N1a

3R/30094

No. DIV.	1	2	3	4	5	6	7	8	9	10	HOLES	PAINT & PREP	G.A. JUNE /	INSUL. QTY	THICKNESS	REVISION	CONTRACT	DWG. No.	REV
																SEE MEMO	1420	33	A





ALL EXPOSED SURFACES  
OF INSULATION TO BE  
COVERED WITH SCRIM FOIL

Holes to suit  
#8 flat head  
wood screws  
countersink N/S

NOTE!  
(NEAR SIDE)

34-REQ'D. ~ MK. A34  
2-REQ'D. ~ MK. B34

GENERAL NOTES:

- 1.) SEE SPEC'S. FOR INSULATION & SCRIM FOIL TYPE.
- 2.) INSULATION MUST BE FORMED TO RADIUS CURVE.
- 3.) LINER MAT'L. IS 6(1/4") THK. OIL TEMPERED MASONITE.
- 4.) BONDING AGENT REQ'D. SUPPLIER TO DETERMINE QTY.
- 5.) FOR FIELD INSTALLATION SEE DWG. E100.
- 6.) FOR CUTTING & NESTING OF INSUL. SEE DWG. N16
- 7.) FOR CUTTING & NESTING OF MASONITE SEE DWG. N2.
- 8.) FOR SCRIM FOIL CUTTING SEE DWG. SC2.

3R1300942

By	Date	Revision
G.A. JUNE 1		NOTE CHANGED
G.A. MAY 23		AS NOTED

LINE	SHIP	FAB	MARK	DESCRIPTION	MAT'L	FT.	INS.	R.B.	LINE	REMARKS	CUTTING INSTRUCTIONS	WEIGHT	DIVISIONS
1	No. REQD.					LENGTH					SPLICING	ALLOWED	
7													
6													
5													
4													
3													
2													
1													



MATERIAL SEE NOTES  
SURF. PREP. SEE NOTES  
PAINT SEE NOTES  
OPEN HOLES AS NOTED

DETAILS OF LINER & INSULATION  
@ INNER FLG. OF ARCH GIRDER  
FOR 4.2 M TELESCOPE DOME  
LA PALMA

DRAWN G.V.A. DATE Nov/88 CHECKED DATE

DRAWING No. 1420-34 REV. 2

BRITAIN STEEL LTD. 401 SALTER AVENUE, NEW WESTMINSTER, B.C.

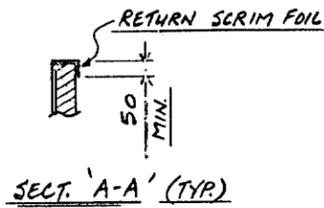
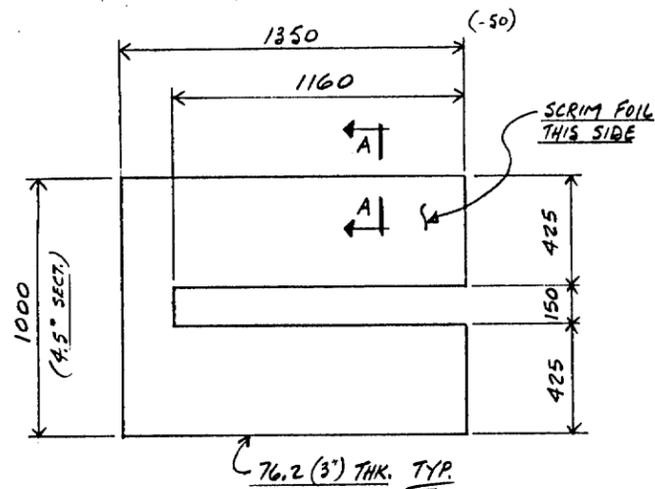
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m - a b c d f g h k m n p s t v w y

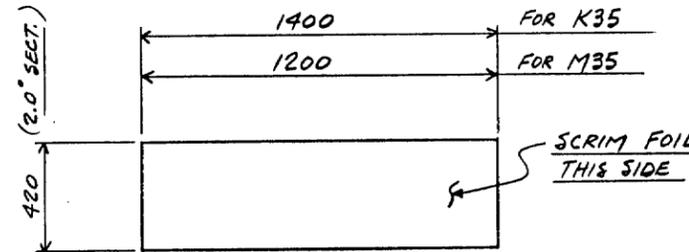
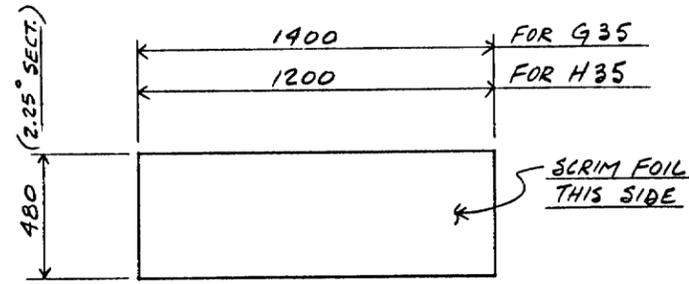
SHOP DEPARTMENT

INS / F / S / O / M / T / P / SH / DP / AS / PA / ER

No. PRINTS

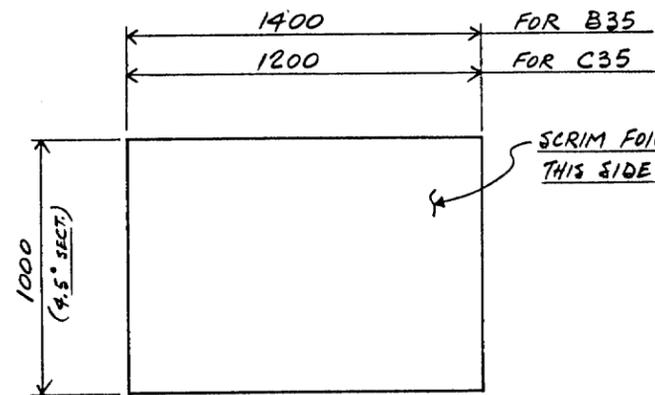


(ATM. SHUTTER VENT SECT.) 4-REQ'D. ~ INSULATION ~ MK. G35 (SHOP INSTALLED)  
 (ATM. SHUTTER VENT SECT.) 2-REQ'D. ~ INSULATION ~ MK. H35 (SHOP INSTALLED)

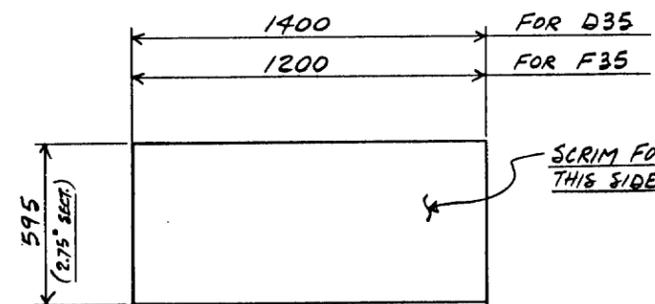


$\frac{2}{\text{TOP SHUTTER POWER SECT.}}$  } 6-REQ'D. ~ INSULATION ~ MK. K35 (SHOP INSTALLED)  
 $\frac{4}{\text{TOP SHUTTER VENT SECT.}}$  }  
 $\frac{3}{\text{TOP SHUTTER VENT SECT.}}$  } 4-REQ'D. ~ INSULATION ~ MK. M35 (SHOP INSTALLED)  
 $\frac{2}{\text{TOP SHUTTER POWER SECT.}}$  }

6-REQ'D. ~ INSULATION ~ MK. A35 (SHOP INSTALLED)



82-REQ'D. ~ INSULATION ~ MK. B35 { 38 SHOP INSTALLED  
 44 SHIPPED TO FIELD }  
 38-REQ'D. ~ INSULATION ~ MK. C35 { 16 SHOP INSTALLED  
 22 SHIPPED TO FIELD }



8-REQ'D. ~ INSULATION ~ MK. D35 (SHIPPED TO FIELD)  
 4-REQ'D. ~ INSULATION ~ MK. F35 (SHIPPED TO FIELD)

**MATERIAL BILL**  
BRITAIN STEEL LTD.

CONTRACT 1420

NO	MARK	QTY.	SHAPE	SIZE	LENGTH	REMARKS	MATL. TYPE	UNIT	WEIGHT
1									
2	A35	6	INS.	1000x76.2(3)	1350	SHOP INSTALLED	SEE		
3							SPEC'S.		
4	B35	82	INS.	1000x76.2	1400	38-SHOP INSTALLED			
5						44-SHIPPED TO SITE			
6									
7	C35	38	INS.	1000x76.2	1200	16-SHOP INSTALLED			
8						22-SHIPPED TO SITE			
9									
10	D35	8	INS.	595x76.2	1400	SHIPPED TO FIELD			
11									
12	F35	4	INS.	595x76.2	1200	SHIPPED TO FIELD			
13									
14	G35	4	INS.	480x76.2	1400	SHOP INSTALLED			
15									
16	H35	2	INS.	480x76.2	1200	SHOP INSTALLED			
17									
18	K35	6	INS.	420x76.2	1400	SHOP INSTALLED			
19									
20	M35	4	INS.	420x76.2	1200	SHOP INSTALLED			
21									
22									
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GENERAL NOTES:

- 1) SEE SPEC'S. FOR INSULATION & SCRIM FOIL TYPE.
- 2) INSULATION & SCRIM FOIL INSTALLED BY BRITAIN STEEL LTD. SEE DWG.
- 3) FOR CUTTING OF SCRIM FOIL SEE DWG. SC1.
- 4) FOR CUTTING & NESTING OF INSULATION SEE DWG. N/A.

3R/300943

	MATERIAL	DETAILS	
	SURF. PREP. & PAINT	SHUTTER INSULATION DETAILS	
OPEN HOLES	FOR 9.2M TELESCOPE DOME LA PALMA		
DRAWN	DATE	CHECKED	DATE
G.V.A.	JUNE/84		
DRAWING No. 1420-35a		REV	
BRITAIN STEEL LTD. 401 SALTER AVENUE, NEW WESTMINSTER, S.C.			

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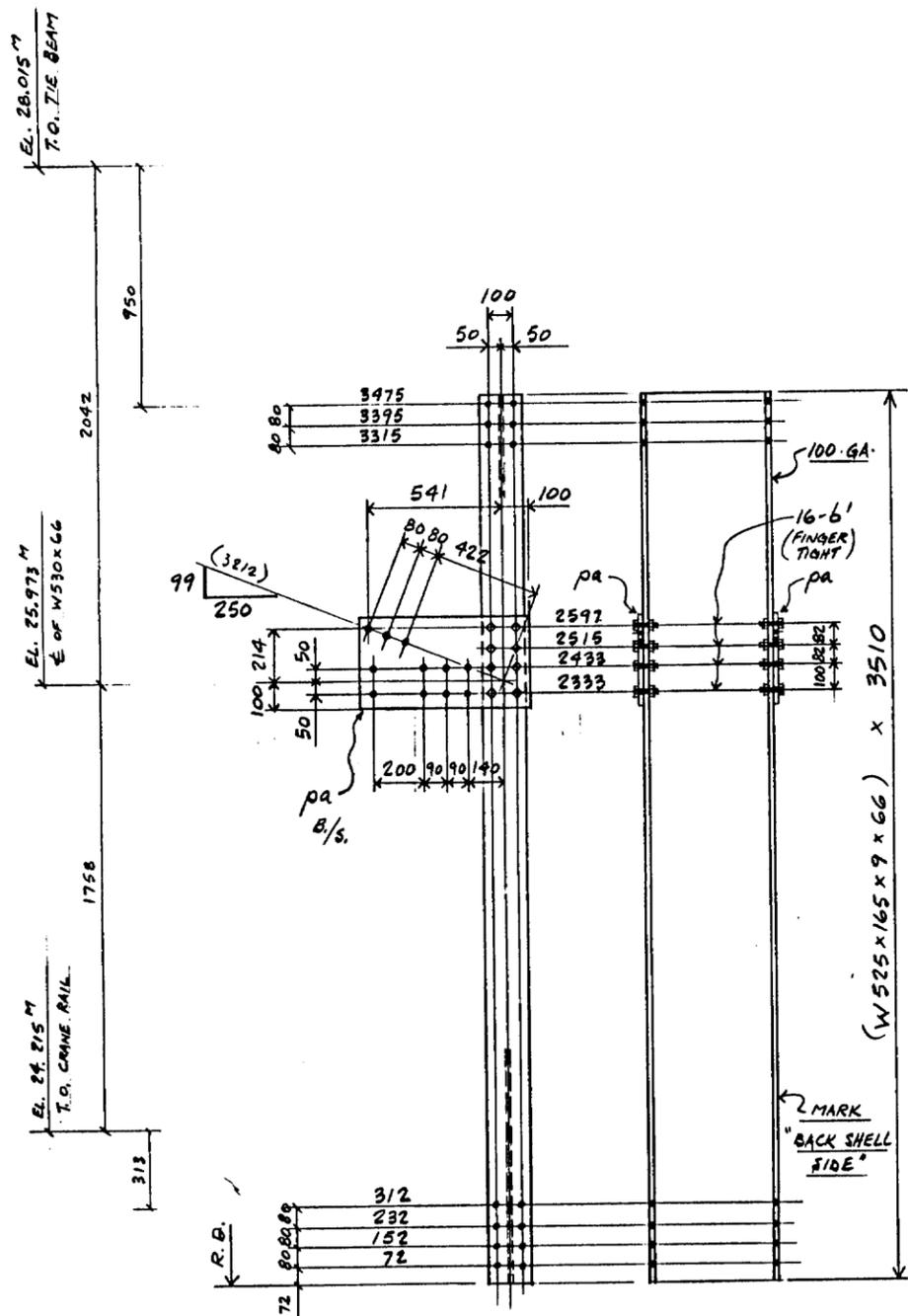
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s-abcdefghijklmnpstvw

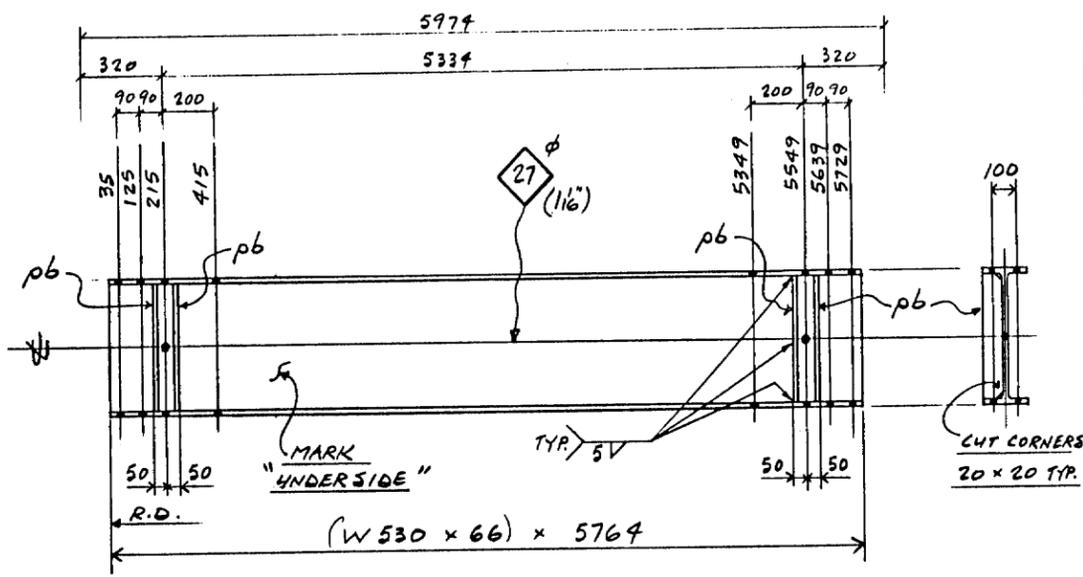
SHOP DEPARTMENT / INS / F / S / O / M / T / P / SH / DP / AS / PA / ER / NO. PRINTS



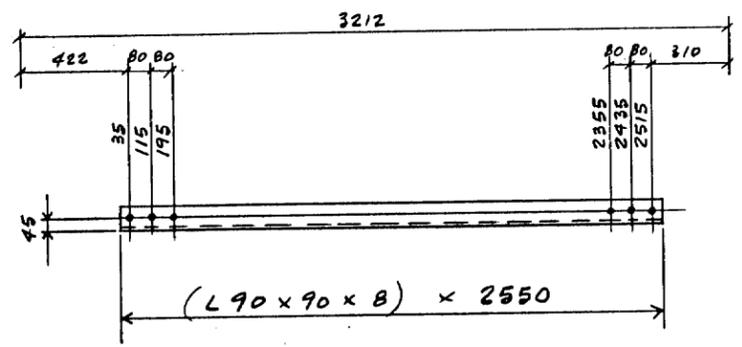




ONE REQ'D. ~ PORTAL HANGER ~ MK. B36



ONE REQ'D. ~ PORTAL STRUT ~ MK. C36



4-REQ'D. ~ PORTAL BRACE ~ MK. D36

MATERIAL BILL  
BRITAIN STEEL LTD.

CONTRACT 1420

LINE NO.	MARK	QTY.	SHAPE	SIZE	LENGTH	REMARKS	MATL. TYPE	W	D	WEIGHT
1										
2						ONE REQ'D. ~ MK. B36				
3										
4		1	W	530 x 66	3510	(W21 x 44)		44W	33	
5	pa	2	R	350 x 9.5 (3/8)	675					
6	pb	16	ROST	3/8" A325	x 2'					
7										
8										
9						ONE REQ'D. ~ MK. C36				
10										
11		1	W	530 x 66	5764	(W21 x 44)		44W	31	
12	pb	4	R	78 x 9.5 (3/8)	500					
13										
14										
15										
16						4-REQ'D. ~ MK. D36				
17										
18		4	L	90 x 90 x 8	2550	(L3 1/2" x 3 1/2" x 3/8")		44W	3 B	
19										
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GENERAL NOTES:

1) FOR FIELD ASSEMBLY SEE DWG. D3

3R/300946

	MATERIAL	G40 21 (44W)	REVISION	
	SURF. PREP. & PAINT	SEE MEMO	DETAILS	PORTAL HANGER STRUT & BRACE
	OPEN HOLES	1/2" MIN (21#)	FOR	4.2 M TELESCOPE DOME LA PALMA
	DRAWN	G.V.A. Nov/83	CHECKED	DATE
BRITAIN STEEL LTD. 401 SALTER AVENUE, NEW WESTMINSTER, B.C.			DRAWING NO.	1420-365
SHOP DEPARTMENT		INS / P / S / O / M / T / P / SH / DP / AS / PA / ER		

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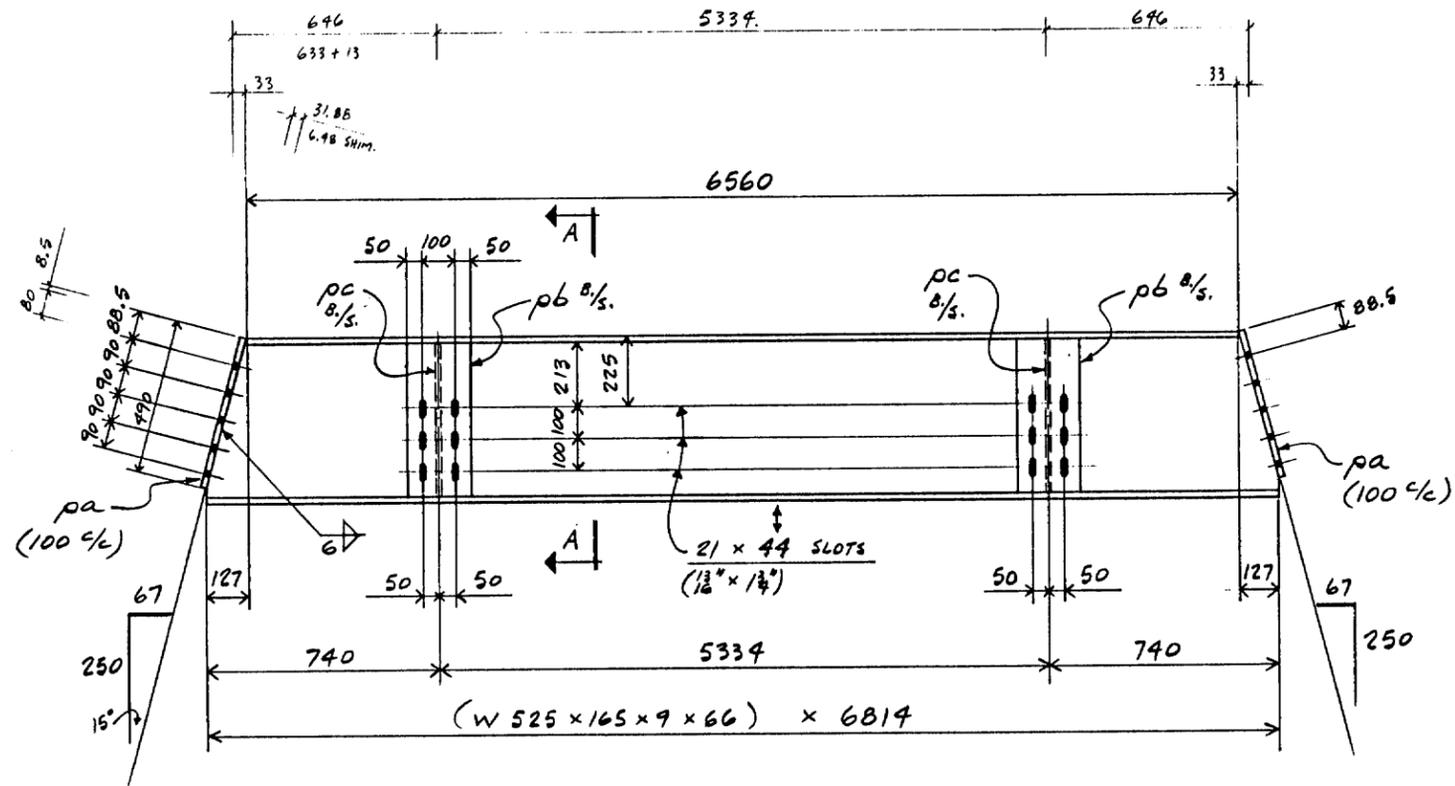
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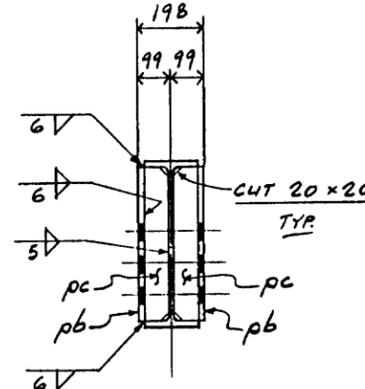
**MATERIAL BILL**  
BRITAIN STEEL LTD.

CONTRACT 1420

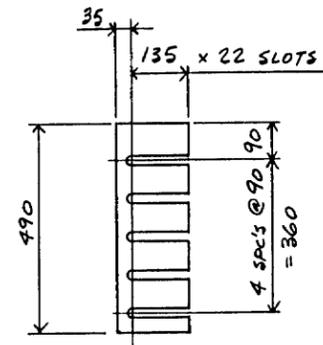
LINE NO.	MARK	QTY.	SHAPE	SIZE	LENGTH	REMARKS	MATL. TYPE	UNIT	WEIGHT
1									
2			ONE REQ'D. ~ MK. P36						
3									
4		1	W	530 x 66	6814	(W21 x 94) B.C.2E	44W	32	
5	pa	2	R	170 x 12.7 (6)	490				
6	pb	4	R	200 x 16 (6)	500				
7	pc	4	R	78 x 8 (6)	500				
8									
9									
10									
11			ONE REQ'D. ~ MK. S36						
12									
13		1	W	200 x 36	5130	(WB x 24)	44W	34	
14	pd	4	R	395 x 9.5 (6)	695				
15	b'	24	BLT	3/4" A325	x 2"				
16									
17									
18	T36	2	R	170 x 4.76 (6)	490				A36
19	V36	2	L	170 x 3.18 (6)	490				
20	W36	2	L	170 x 1.59 (6)	490				
21									
22									
23									
24									
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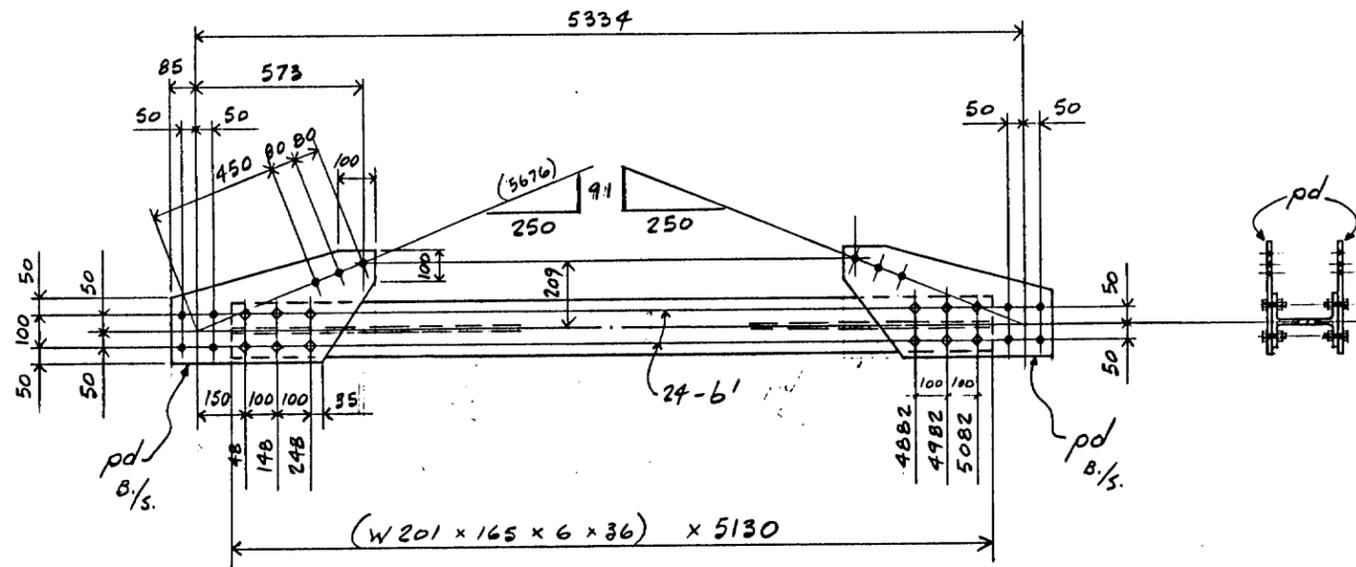
ONE REQ'D. ~ BRACE FRAME BEAM ~ MK. P36  
(TEMPORARY SUPPORT)



SECTION 'A-A'



2-REQ'D. ~ SHIM ~ MK. T36  
2-REQ'D. ~ ( ~ MK. V36  
2-REQ'D. ~ ( ~ MK. W36  
(FOR BRACE FRAME BEAM)



ONE REQ'D. ~ BRACE FRAME STRUT ~ MK. S36  
(TEMPORARY SUPPORT)

GENERAL NOTES:

- 1.) FOR FIELD ASSEMBLY SEE DWG. D3
- 2.) FOR REMOVAL OF TEMPORARY SUPPORTS SEE DWG'S. R1, R2 ETC.

3R1300948

	MATERIAL	G4021 (44W) U/D	SEE MEMO			
	SURF. PREP.	PAINT				
	OPEN HOLES	1 3/8" U/D (21#)				
	DRAWN	G.V.A.	DATE	CHECKED	DATE	DRAWING No.
BRITAIN STEEL LTD. 401 SALTER AVENUE, NEW WESTMINSTER, B.C.						

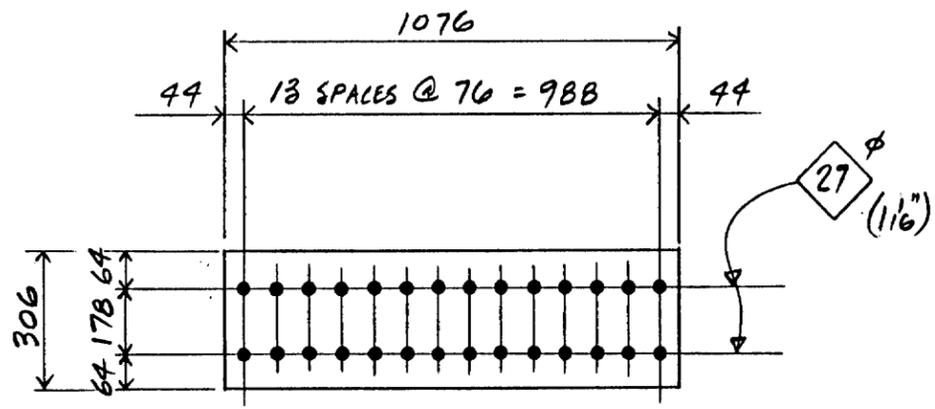
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m-abcdefghijklmnpstvw y

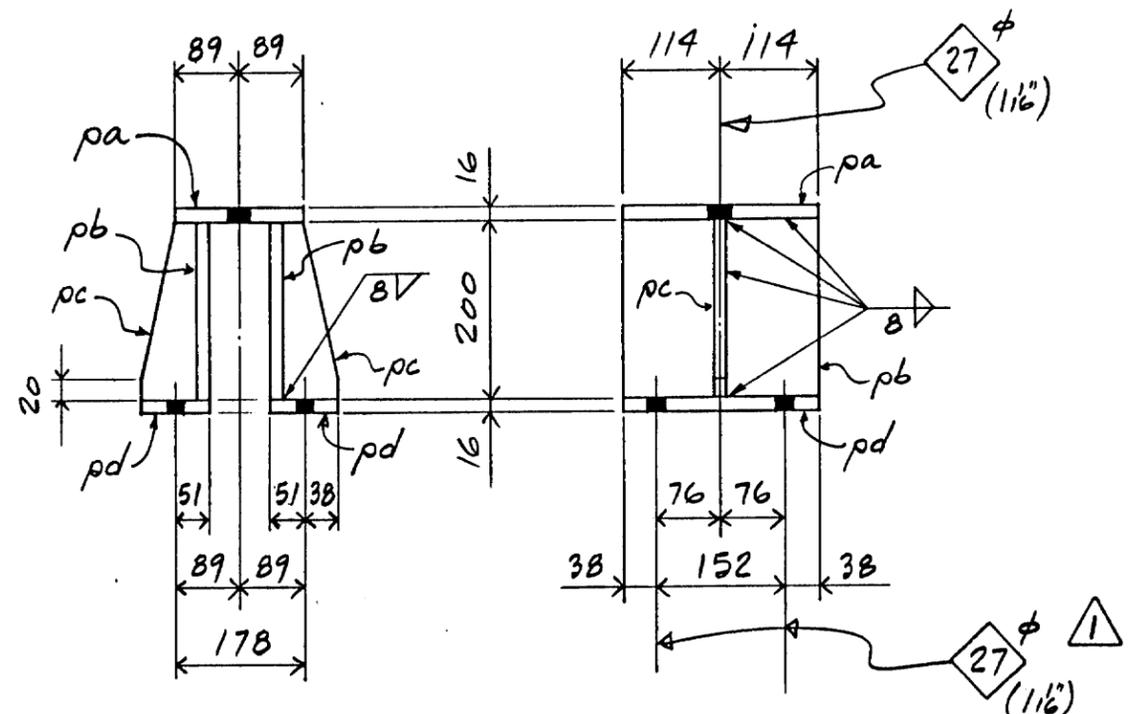
s-abcdefghijklmnpstvw y

SHOP DEPARTMENT INS F S O M T P SH DP AS PA ER No PRINTS

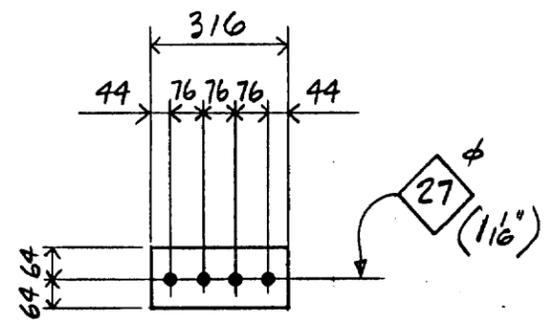




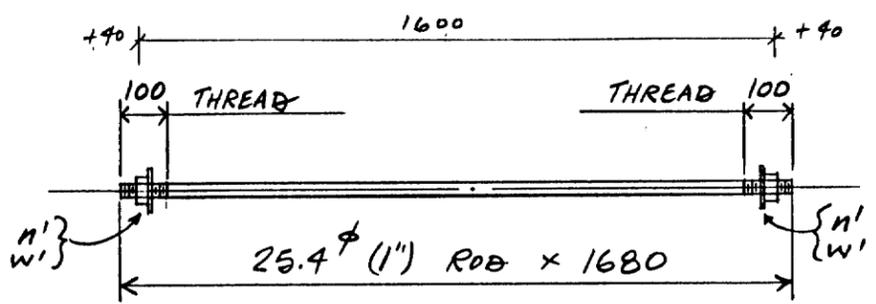
2 REQ'D. ~ SPLICE  $\bar{R}$  ~ MK. AF36



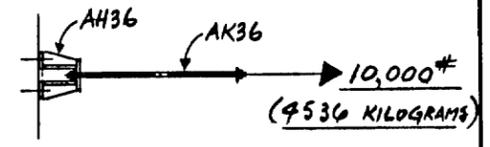
2-REQ'D. ~ HANGER BRACKET ~ MK. AH36 (NO PAINT)



4 REQ'D. ~ SPLICE  $\bar{R}$  ~ MK. AG36



2-REQ'D. ~ HANGER ROD ~ MK. AK36 (NO PAINT)



LOAD TEST BRACKET & ROD AND STAMP FOR 10,000# PULL

GENERAL NOTES:

- 1.) FOR FIELD ASSEMBLY SEE DWGS R3, R5 & 36m

15	2	AM36	BAR 50.8 $\phi$ (2")		1076		PLAIN MAT'L.
14							
13	4	W1	STD. WASHER (1" $\phi$ )				LOAD TEST
12	4	N1	HVY. HEX NUT (1" $\phi$ )				
11	2	AK36	ROD 25.4 $\phi$ (1")	4140	1680	T.Z.E.	
10							
9	4	pd	$\bar{R}$ 89 x 16 (5/8")	44W		228	LOAD TEST
8	4	pc	$\bar{R}$ 73 x 16			200	
7	4	pb	$\bar{R}$ 200 x 16			228	
6	2	pa	$\bar{R}$ 178 x 16 (5/8")	44W		228	
5			2-REQ'D. ~ MK. AH36				
4							
3	4	AG36	$\bar{R}$ 128 x 16 (5/8")	44W		316	
2							
1	2	AF36	$\bar{R}$ 306 x 25.4 (1")	44W		1076	

3R/300950

GA APR 5 HOLE DIA. INCREASED  
No. BY DATE REVISION



MATERIAL	G40.21 (44W) 1/2	DETAILS OF	CRANE BEAM
SURF. PREP. & PAINT	SEE MEMO & NOTED	MISC. ITEMS:	
OPEN HOLES	AS NOTED	FOR	4.2 M TELESCOPE DOME LA PALMA
DRAWN	DATE	CHECKED	DATE
G.V.A.	Nov/88		
DRAWING No.		1420-369	

BRITAIN STEEL LTD. 401 SALTER AVENUE, NEW WESTMINSTER, B.C.

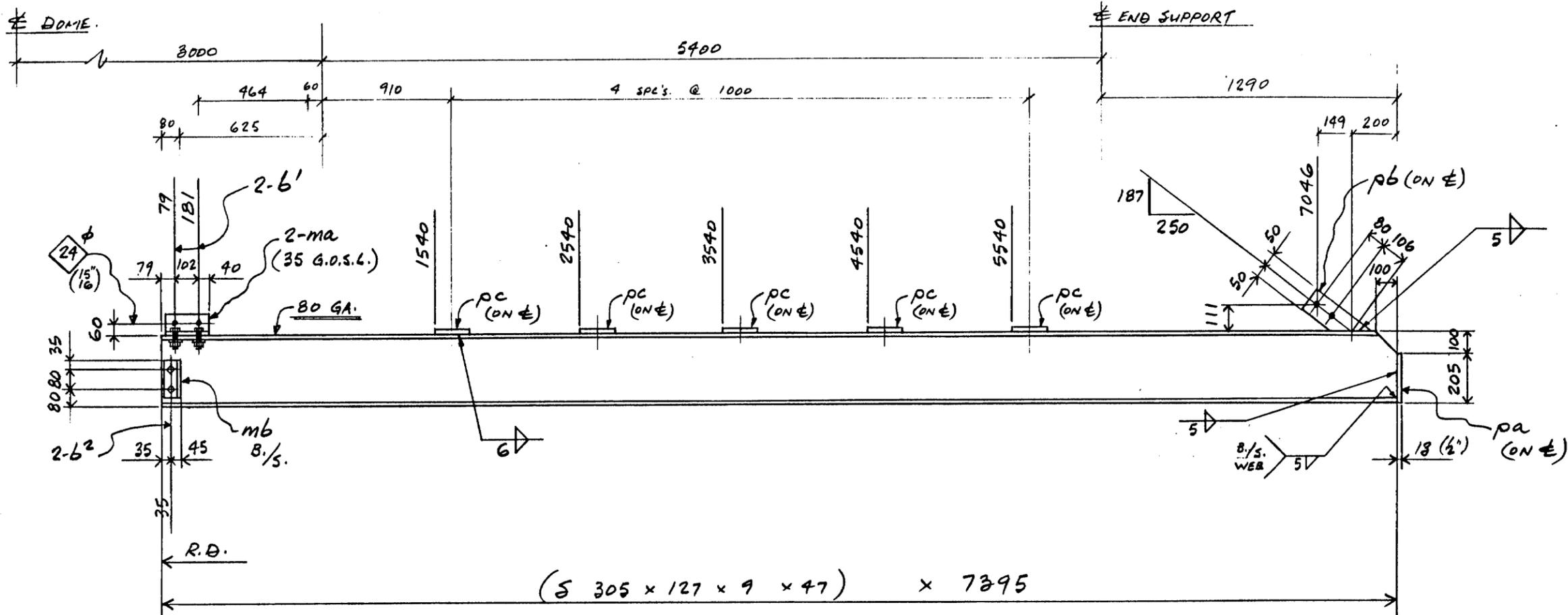
p - a b c d f g h k m n p s t v w y

m - a b c d f g h k m n p s t v w y

SHOP DEPARTMENT

INS / F / S / O / M / T / P / SH / DP / AS / PA / ER

No. PRINTS



ONE REQ'D. ~ MONORAIL ~ MK. AN36

GENERAL NOTES:

1.) FOR FIELD ASSEMBLY SEE DWG. R4 + D1

LINE	SHIP No. REQD.	FAB	MARK	DESCRIPTION	MAT'L	LENGTH	R.B.	LINE	REMARKS	CUTTING INSTRUCTIONS	WEIGHT	DIVISIONS
										SPLICING	ALLOWED	
10	2	62		BOLT 3/4" A325		24"						
9	4	61		BOLT 3/4" A325		24"			%W REV. WASHERS			
8	5	PC		R 150 x 16 (3/8")	44W	150						
7	1	pb		R 100 x 9.5 (3/8")		290						
6	1	pa		R 150 x 13 (1/2")		205						
5	2	mb		L 76 x 76 x 8		150			(L 3" x 3" x 5/16")			
4	2	ma		L 90 x 64 x 8		182			(L 3 1/2" x 2 1/2" x 3/8")			
3	1			S 310 x 47	44W	7395			(S 12 x 31.8)			
2				ONE REQ'D. ~ MK. AN36								
1												

3R1300951



MATERIAL	G40.21 (44W)
SURF. PREP.	SEE MEMO
PAINT	
OPEN HOLES	13/16" (21)
DRAWN	G.V.A.
DATE	Nov/83
CHECKED	
DATE	

No.	BY	DATE	REVISION

DETAILS OF MONORAIL

FOR 4.2 M TELESCOPE DOME  
LA PALMA

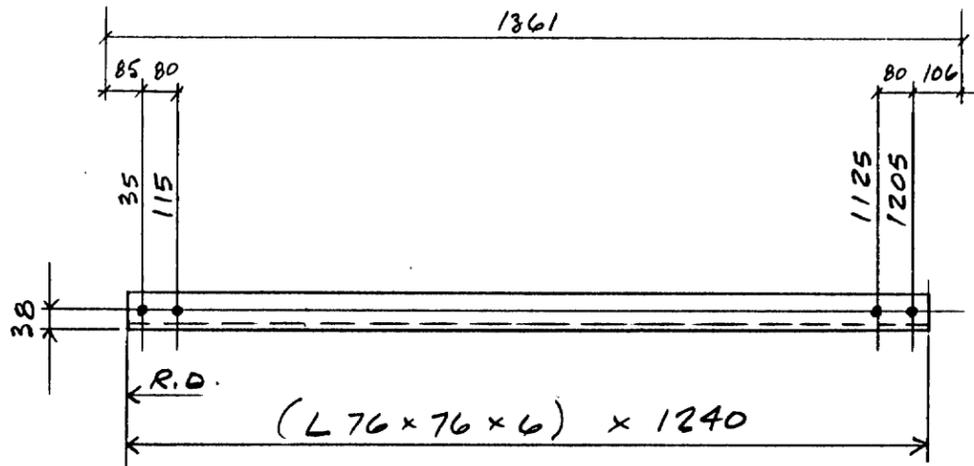
DRAWING No. 1420-36h

**BRITAIN STEEL LTD.** 401 SALTER AVENUE, NEW WESTMINSTER, B.C.

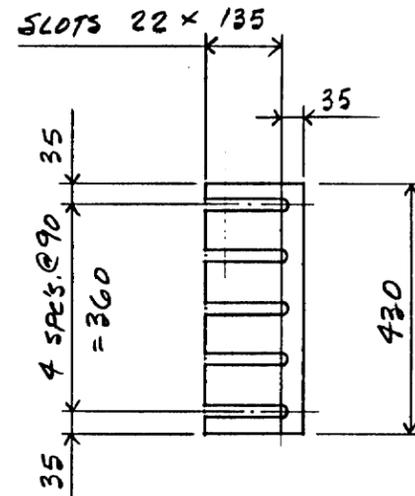
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m - a b c d f g h k m n p s t v w y

SHOP DEPARTMENT / INS / F / S / O / M / T / P / SH / DP / AS / PA / ER / No. PRINTS



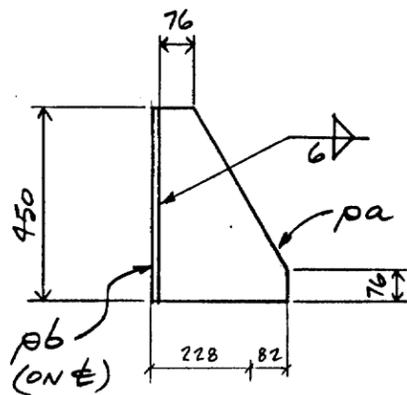
ONE REQ'D. ~ MONORAIL BRACE ~ MK. AP36



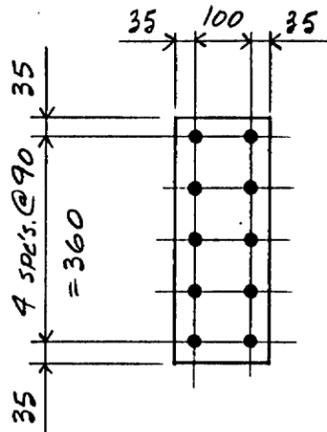
2-REQ'D. ~ SHIM ~ MK. AT36

2-REQ'D. ~ MK. AV36

2-REQ'D. ~ MK. AW36



2-REQ'D. ~ CRANE STOP ~ MK. AS36



2-REQ'D. ~ END PL ~ MK. AY36

GENERAL NOTES:-

- 1) FOR FIELD ASSEMBLY SEE DWG. D1
- 2) FOR FIELD ASSEMBLY OF END PL ~ MK. AY36 SEE DWG. 36 M.

LINE	SHIP No. REQD.	FAB	MARK	DESCRIPTION	MAT'L	LENGTH	R.B.	LINE	REMARKS	CUTTING INSTRUCTIONS	WEIGHT	DIVISIONS
										SPLICING	ALLOWED	
12	2	AY36	PL	170 x 13 (1/2")	44W	430						
11												
10	2	AW36	PL	170 x 1.59 (1/16")	A36	430			SHIMS			
9	2	AV36	PL	x 3.18 (1/8")								
8	2	AT36	PL	x 4.76 (3/16")								
7												
6	2	pb	PL	230 x 13 (1/2")	44W	450						
5	2	pa	PL	297 x 13 (1/2")	44W	450						
4				2-REQ'D. ~ MK. AS36								
3												
2	ONE	AP36	L	76 x 76 x 6	44W	1240						
1												

3R/300952



MATERIAL G40.21 (44W) 1/2"  
 SURF. PREP. & PAINT SEE MEMO  
 OPEN HOLES 13/16" (21#)

DRAWN G.V.A. DATE Nov./83  
 CHECKED DATE

No.	BY	DATE	REVISION

DETAILS OF CRANE BEAM  
 MISC. ITEMS  
 FOR 4.2 M TELESCOPE DOME  
 LA PALMA

DRAWING No. 1420-36k

**BRITAIN STEEL LTD.** 401 SALTER AVENUE, NEW WESTMINSTER, B.C.

p - a b c d f g h k m n p s t v w y

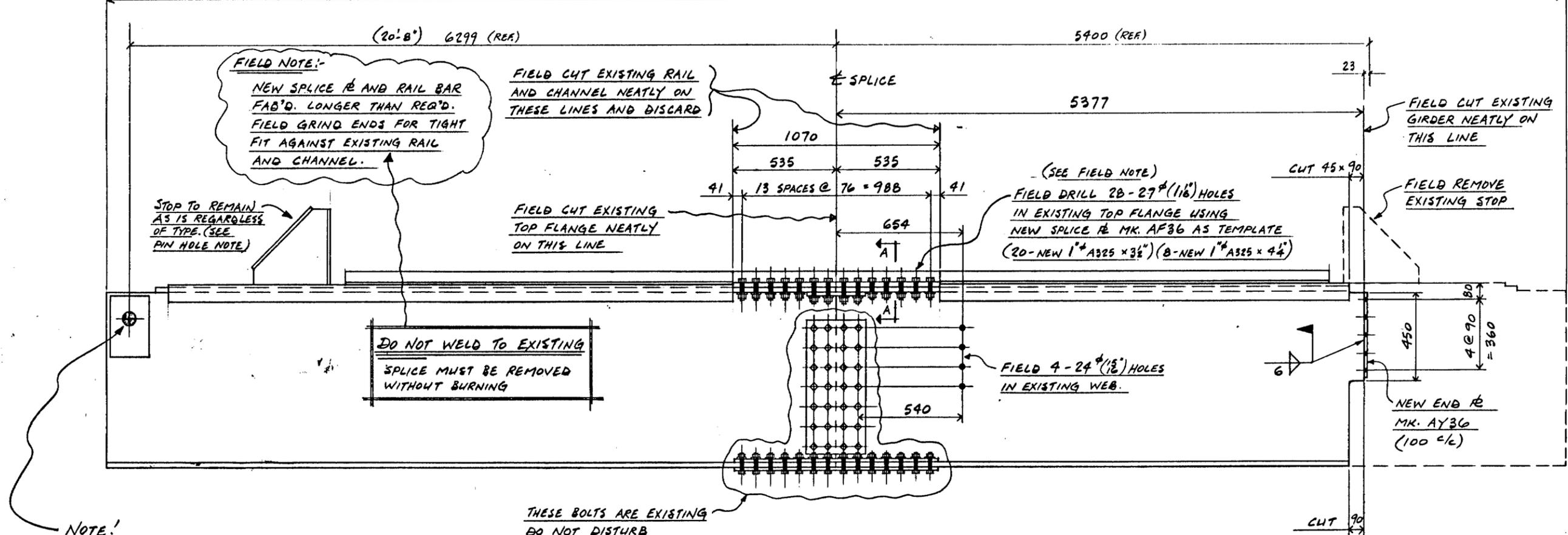
m - a b c d f g h k m n p s t v w y

SHOP DEPARTMENT

INS / F / S / O / M / T / P / SH / DP / AS / PA / ER

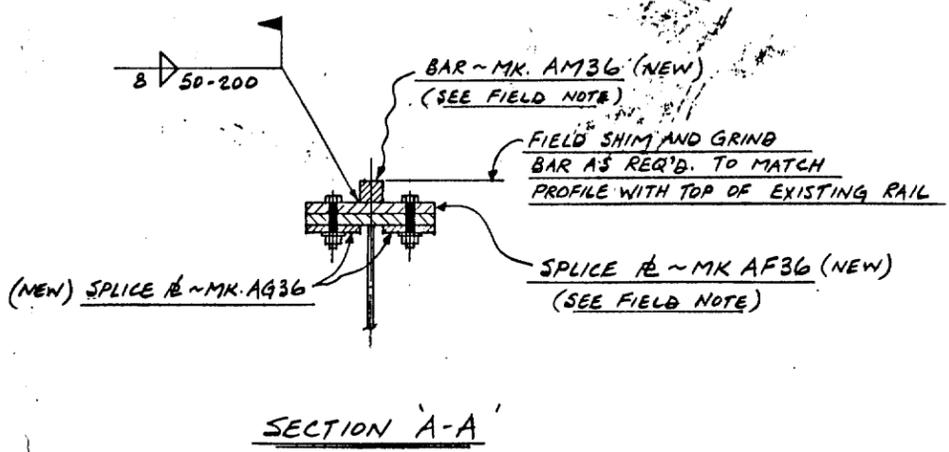
No. PRINTS

EXISTING CRANE BEAMS ~ BACK SHELL END →



**NOTE!**  
 PIN HOLE CONNECTION MAY BE DAMAGED AT ONE END OF EXISTING CRANE BEAMS. THIS IS UNDAMAGED END

FIELD WORK REQ'D. FOR TWO EXISTING CRANE GIRDBERS (FROM I.N.T. DOME) PRIOR TO ERECTION IN 4.2<sup>m</sup> DOME



- GENERAL NOTES:**
- 1) FOR FIELD ASSEMBLY SEE DWGS R1 TO R9.
  - 2) FOR NEW MAT'L. ON THIS DWG. SEE DWG. 369 & 36k

3R/300953

	MATERIAL	SEE MEMO	NO.	BY	DATE	REVISION
	SURF. PREP. & PAINT	AS NOTED	DETAILS FIELD WORK TO EXISTING GIRDBERS			
	OPEN HOLES	AS NOTED	FOR 4.2 <sup>m</sup> TELESCOPE DOME LA PALMA			
DRAWN	DATE	CHECKED	DATE	DRAWING NO.	REV.	
G.V.A.	Nov. 82			1420-36m		
<b>BRITAIN STEEL LTD.</b> 401 SALTER AVENUE, NEW WESTMINSTER, B.C.						
SHOP DEPARTMENT			INS / F / S / O / M / T / P / SH / DP / AS / PA / ER			

p-abcdefghijklmnpstvw

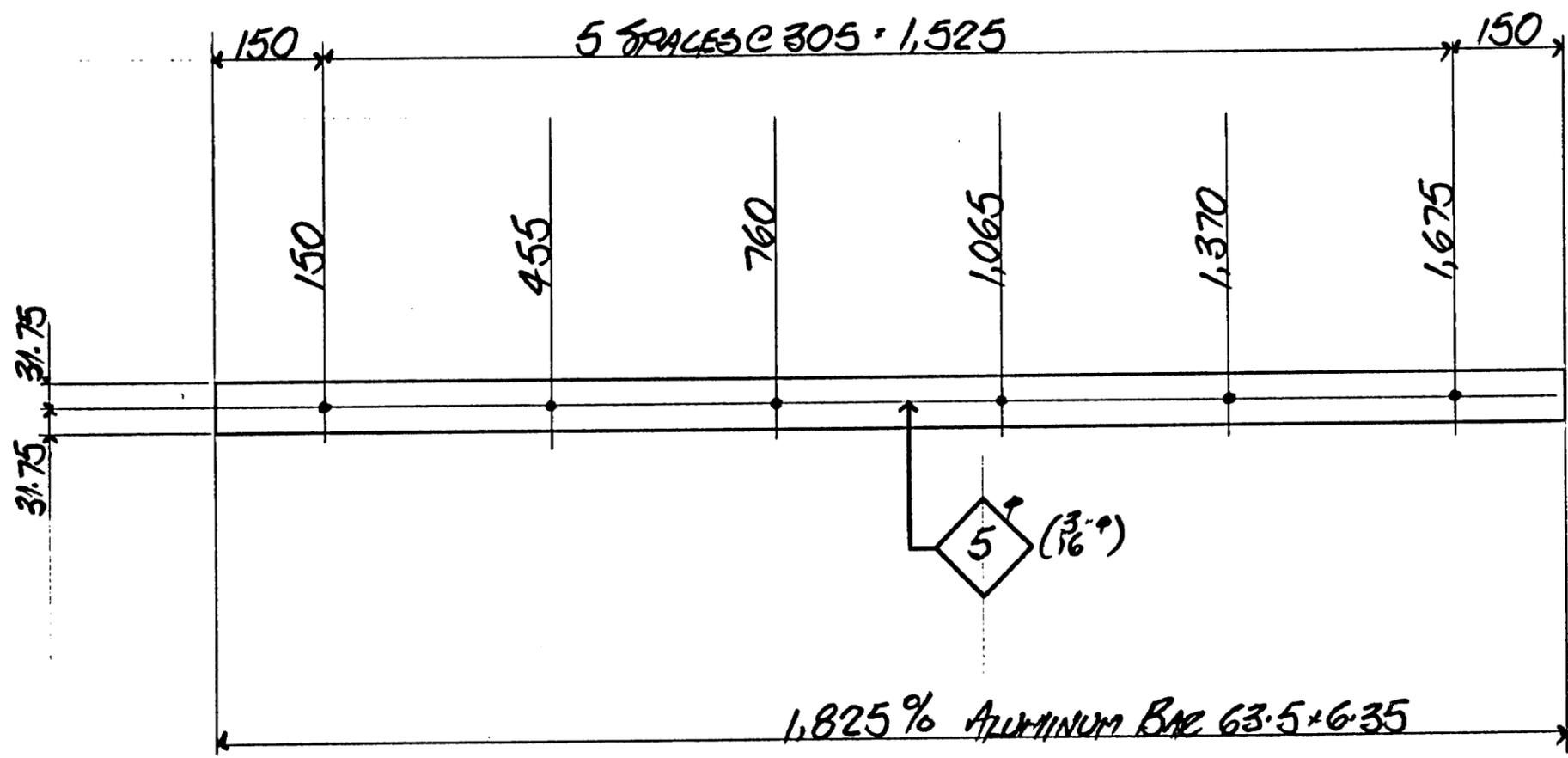
n-abcdefghijklmnpstvw

s-abcdefghijklmnpstvw

No. PRINTS



LINE	No. REQD.		MARK	DESCRIPTION	MAT'L	LENGTH		R.B.	LINE	REMARKS	SPLICING _____ ALLOWED		WEIGHT
	SHIP	FAB.				FT.	INS.				CUTTING	INSTRUCTIONS	
1	<del>60</del>	60	B37	BAR 63.5x6.35	ALUMINUM	1,	825			(2 1/2 x 1/4)	PO.#		
2	75	75											
3													
4													
5													
6													
7													
8													
9													
10													



△ 75  
60 REQD - LINER SEAL STRIP MK B37

NOTE:  
 THIS DRG REPLACES  
 DRG 37 (2)

3R/300955

BRITAIN NEW WESTMINSTER B.C.

BRITAIN STEEL LTD.

MADE BY: RL DATE: FEB/85

DATE: 10

CH'KD: 9

DATE: 8

PAINT & NONE PREP

NO. BY DATE

REVISION

CONTRACT 1420

DWG. NO. REV 37a

QUANTITY REVISED

3R/300955