

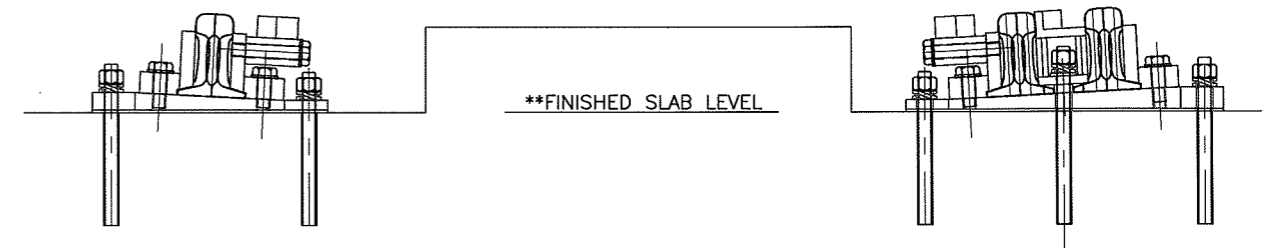
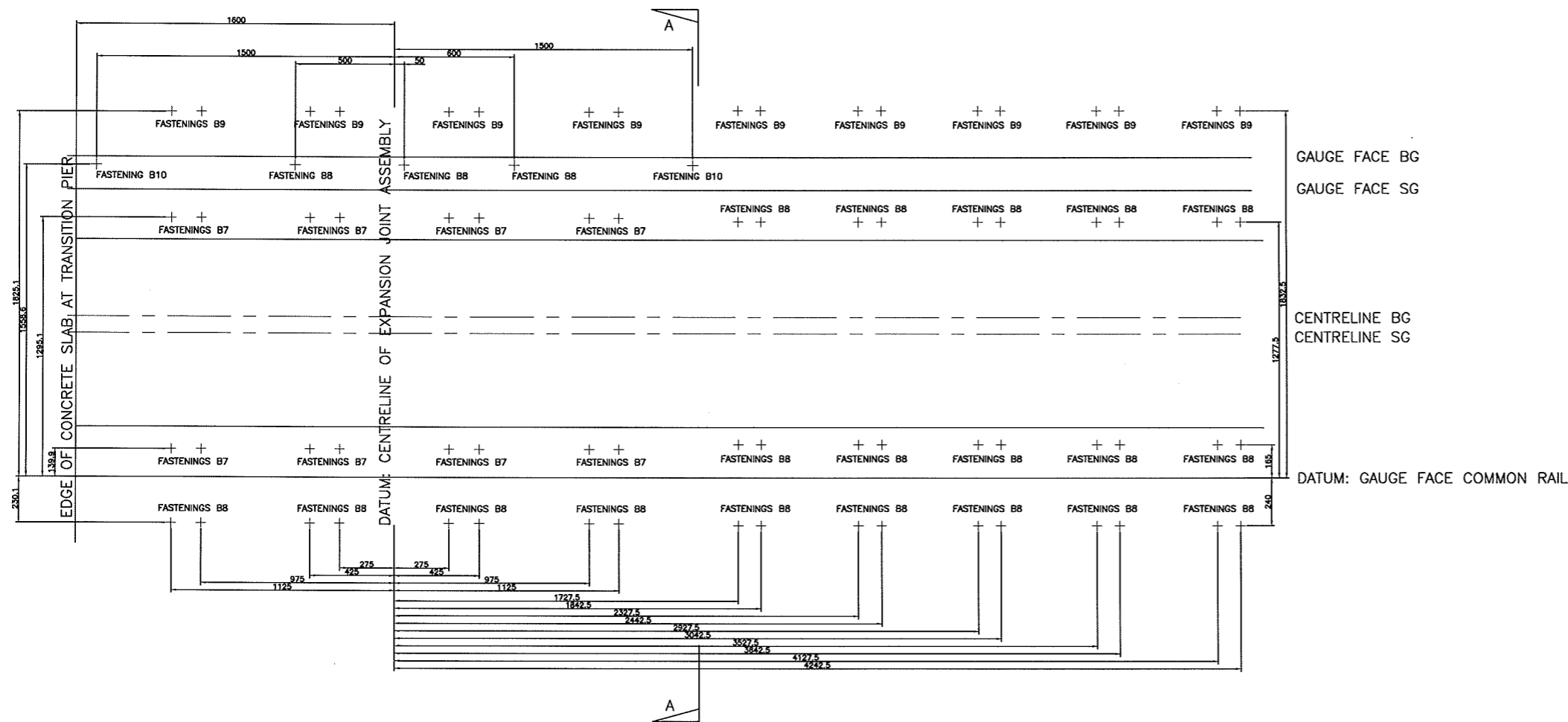


(i)	Use in other rail networks						
	N/A						
(ii)	Use in the ARTC network						
	N/A						
(iii)	Issues arising from usage of the equipment/system	No impact on train operations or signalling. A detailed inspection and maintenance plan is attached.					
(iv)	Changes required to infrastructure or systems for use of the equipment						
	N/A						
9	Reliability						
	N/A						
10	Maintainability	A Maintenance Plan has been prepared covering routine inspections, repair of worn components, replacement of fastenings, and dismantling & reassembly.					
11	Approval *						
	DUAL GAUGE EXPANSION JOINT FOR USE IN 1600 mm / 1435 mm DUAL GAUGE TRACK.						
12	Conditions of Approval *						
<<NOTE: Review Panel may add additional Conditions of Approval>>							
13	Does the Originator accept the additional Conditions of Approval as set by the Review Panel:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>

14	Sign off	ARTC office use only	
	Review Panel:	SAFETY COMMITTEE APPROVED  _____  _____  _____	14/11/08 Date: 24/12/07 Date: 19/12/07 Date: 18/12/07



SECTION A-A
Scale 1:5



SETTING OUT PLAN OF FASTENINGS FOR SLAB-SUPPORTED EXPANSION JOINT
Scale 1:10

- NOTES:
- ** Finished slab level refers to slab level adopted for adjacent mixed gauge turnout 44mm above general slab level in regions of standard vibration-insulated fastenings.
 - Refer to field assembly procedure shown on sheet 26.
 - B8 holding down bolts are chemically anchored M24 studs such as Hilti HUV capsule with HAS-R stainless steel rod installed in accordance with the manufacturer's recommendations. Grip length excluding spring washer not less than 40mm.
 - B7 holding down bolts are chemically anchored M24 studs such as Hilti HUV capsule with HAS-R stainless steel rod installed in accordance with the manufacturer's recommendations. Grip length excluding spring washer not less than 50mm.
 - Dimensions of hole positions are provided for information. The preferred installation procedure is to line and level the rails and drill for fastenings through the baseplates. (Refer sheet 26.)

REVISION	DATE	DESCRIPTION
A	21-2-07	Issued for construction

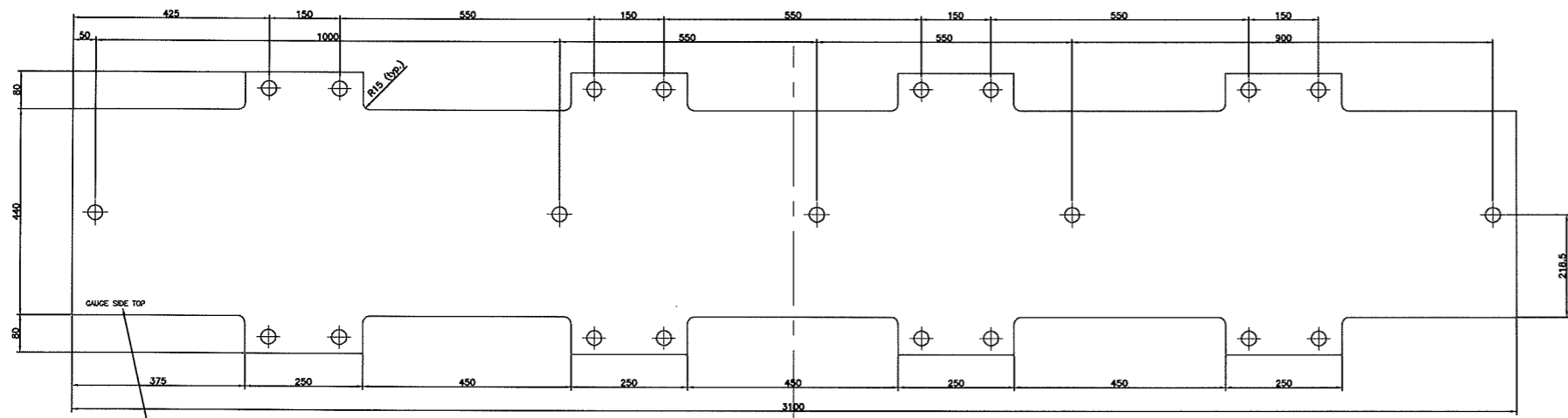
Railway & Civil
Engineering Consulting

54 Oakley Avenue, Brookmore, SA 5083
Phone: (08) 8344 8939
Fax: (08) 8344 9420
Mobile: 0415 890 784
E-mail: jhs@eng@railnet.net.au

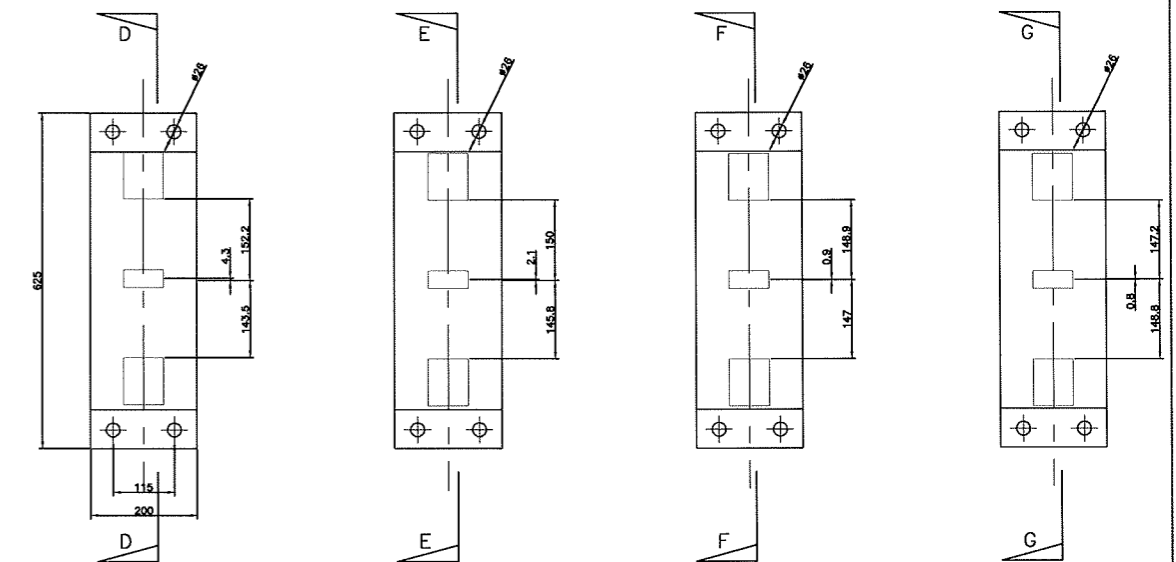
SCALE
DESIGNED RAW
DESIGN RAW
CHECKED RAW
APPROVED
DATE Nov '06

PORT RIVER EXPRESSWAY
STAGE 3 RAIL WORKS
RAIL EXPANSION JOINT
SLAB-MOUNTING DETAILS

ISSUE	A
SHEET	1
SIZE	A0
JN0607-21	



Item 8 - DUAL RAIL HDPE PAD (H)
1 off 5mm HDPE per slab-supported joint assembly.
All holes 32mm dia.
Scale 1:5



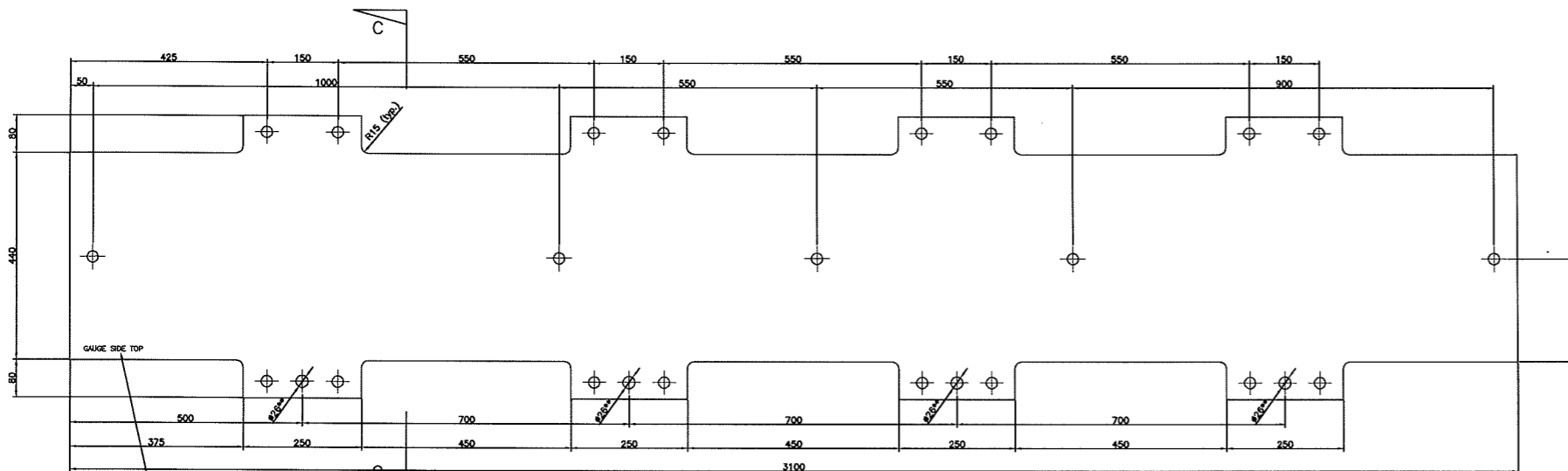
Item 42 - BASEPLATE
1 in 20 CANT - 2 off
Scale 1:5

Item 43 - BASEPLATE
1 in 30 CANT - 1 off
Scale 1:5

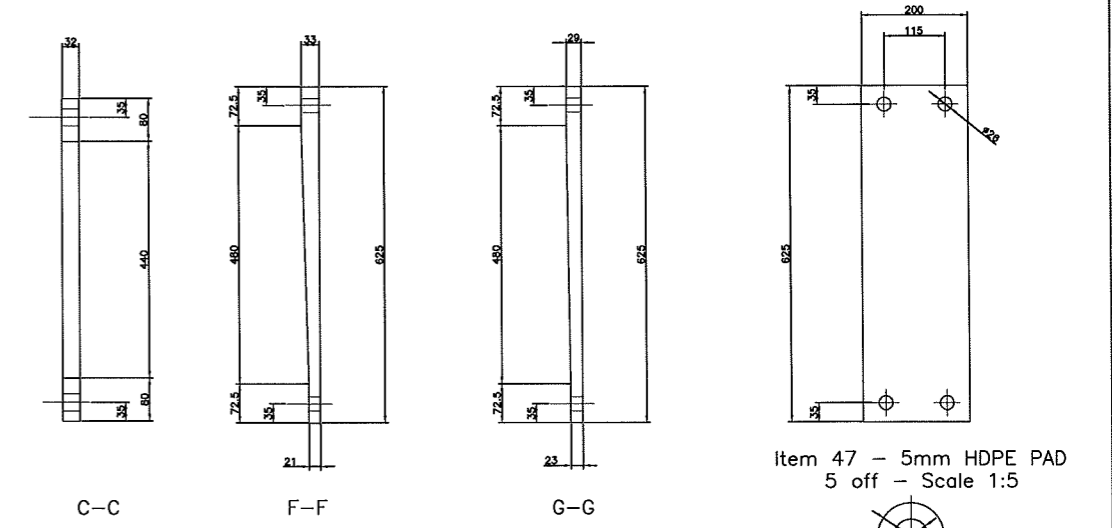
Item 44 - BASEPLATE
1 in 40 CANT - 1 off
Scale 1:5

Item 45 - BASEPLATE
1 in 80 CANT - 1 off
Scale 1:5

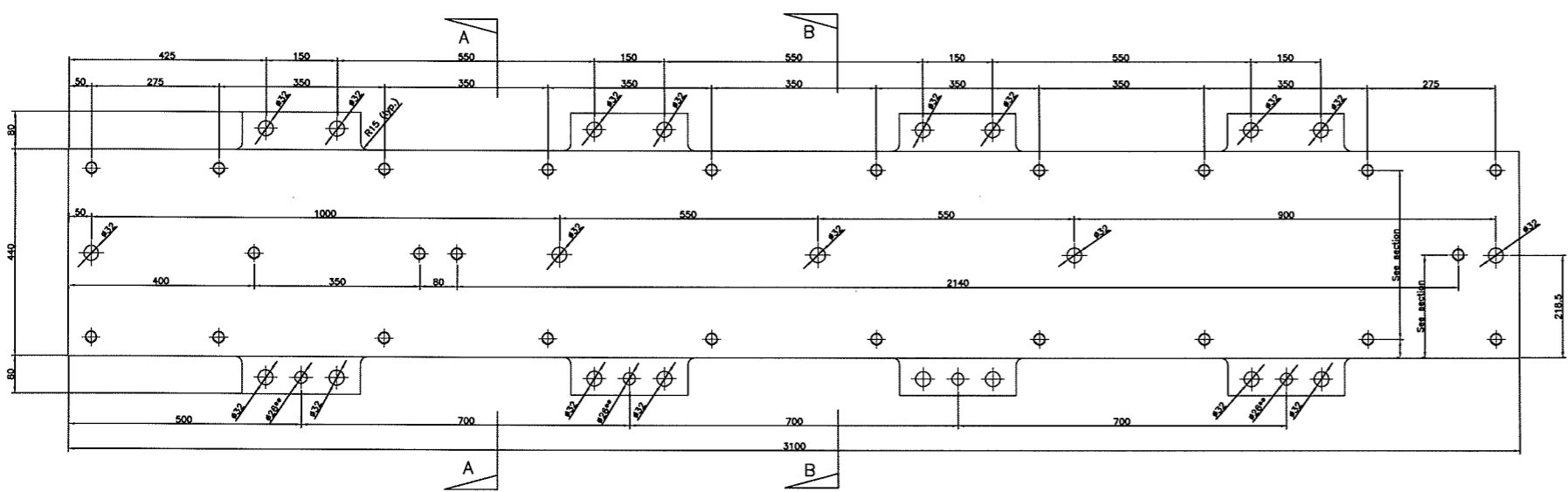
NOTE: Items 42 to 45 machined ex 40mm plate



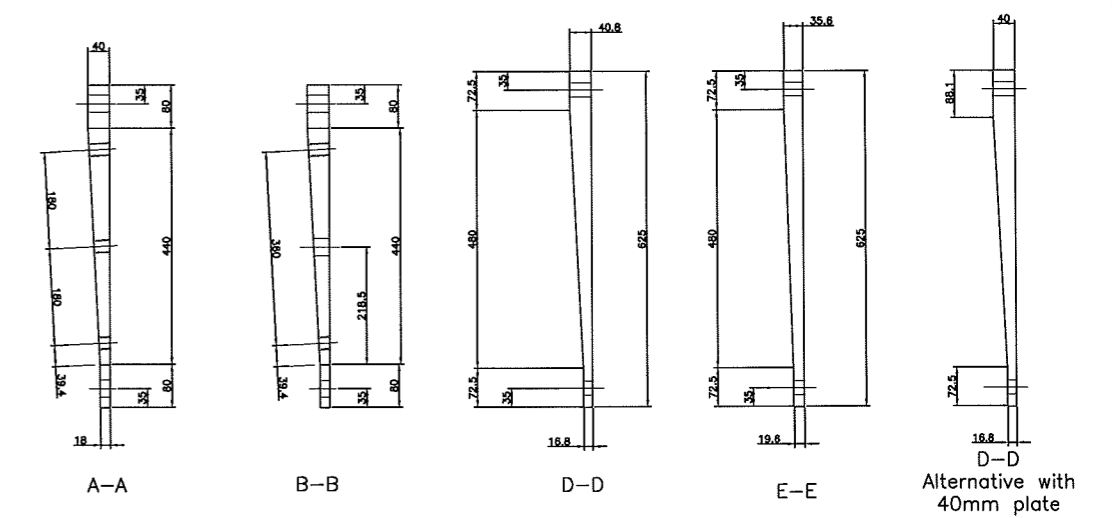
Item 5 - STEEL SUPPORT DUAL RAIL TOP FIXING PLATE (H)
1 off per steel-supported joint assembly
All holes drilled and tapped for M24 bolts except where noted
Scale 1:5



Item 47 - 5mm HDPE PAD
5 off - Scale 1:5



Items 4 & 6 - DUAL RAIL CANTED BASEPLATE (H)
Machined from 40mm m.s. plate
1 off Item 4 per steel-supported joint assembly
1 off Item 6 per slab-mounted joint assembly
Scale 1:5



SECTIONS
Scale 1:5

**NOTE: 26 dia. holes in Item 4 only

REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION
A	21-2-07	Alternative section D-D added for 40mm plate. Issued for construction			

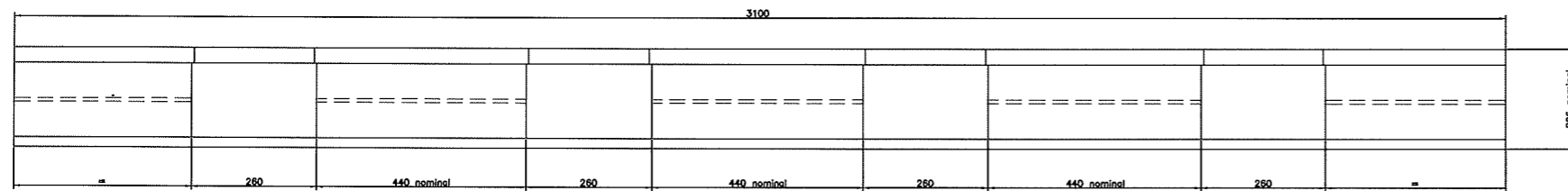
Jans Railway & Civil
Engineering Consulting

50 Gilling Street, Broadview, SA 5083
Phone: (08) 8344 6200
Fax: (08) 8344 6200
Mobile: 0418 597 754
E-mail: jans@jansrail.net.au

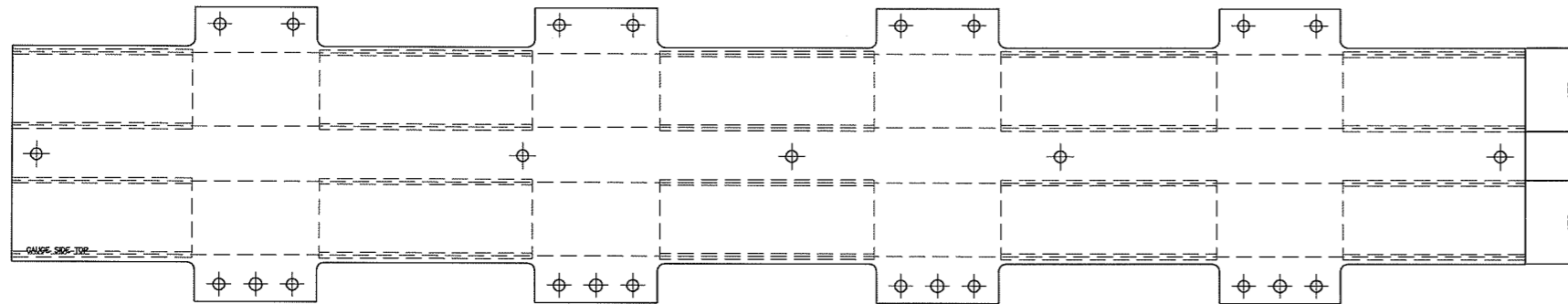
SCALE As shown
DESIGNED RAW
DRAWN RAW
CHECKED RAW
APPROVED
DATE Dec '06

PORT RIVER EXPRESSWAY
STAGE 3 RAIL WORKS
RAIL EXPANSION JOINT
DUAL RAIL PLATE DETAILS

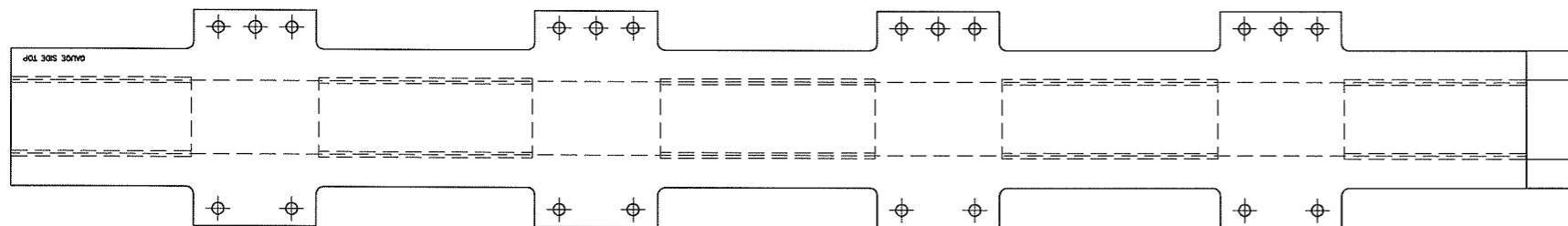
ISSUE	A
SHEET	AO
NO.	JN0607-23



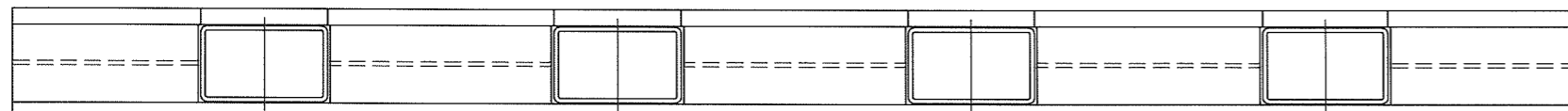
ELEVATION
COMMON OR DUAL RAIL SUPPORT ASSEMBLY
See plan views below
Scale 1:5



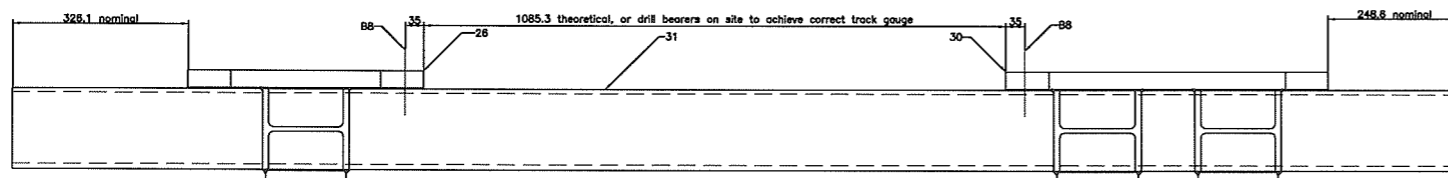
Item 30 - DUAL RAIL SUPPORT ASSEMBLY (H)
1 off per steel-supported joint
Scale 1:5



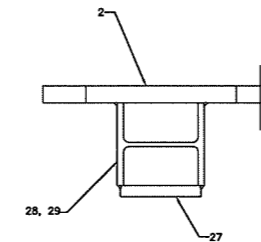
Item 26 - COMMON RAIL SUPPORT ASSEMBLY
1 off per steel-supported joint
Scale 1:5



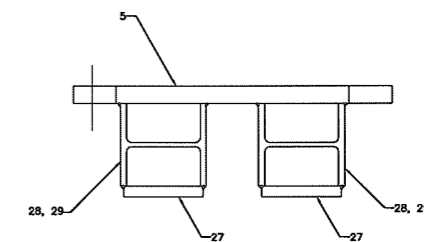
LONGITUDINAL ELEVATION OF STEEL SUPPORT ASSEMBLY COMPLETE
Scale 1:5



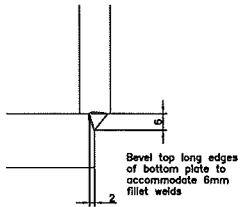
END ELEVATION OF STEEL SUPPORT ASSEMBLY COMPLETE
Scale 1:5



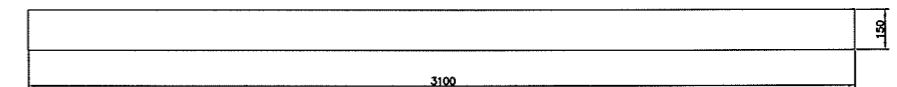
END ELEVATION
COMMON RAIL SUPPORT ASSEMBLY
See plan views below
Scale 1:5



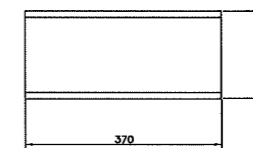
END ELEVATION
DUAL RAIL SUPPORT ASSEMBLY
See plan views below
Scale 1:5



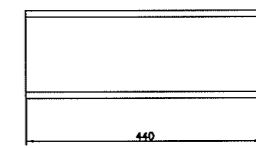
BOTTOM PLATE TO UC
WELD PREPARATION DETAIL
Scale 1:1



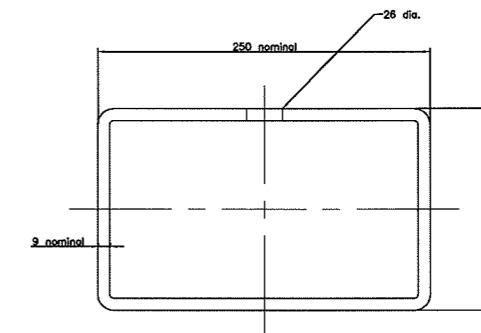
Item 27 - BOTTOM PLATE
3 off ex 150X20 m.s. flat
Scale 1:10



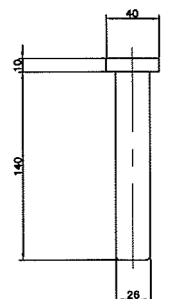
Item 28 - SHORT UC SECTION
6 off ex 150 UC 37.2
Scale 1:5



Item 29 - LONG UC SECTION
9 off ex 150 UC 37.2
Scale 1:5



Item 31 - STEEL BEARER SECTION
4 off x 2700 long ex 250x150x9 RHS
Scale 1:2



Item B11 - M.S. PIN
8 off
Scale 1:2

SCHEDULE				
ITEM	SUB-ITEM	DESCRIPTION	NO. OFF	DRAWING
		STEEL SUPPORT ASSEMBLY - COMPLETE		
28		COMMON RAIL SUPPORT ASSEMBLY		JN0607-24
	2	TOP PLATE	1	JN0607-22
	27	BOTTOM PLATE	1	JN0607-24
	28	LONG COLUMN SECTION	3	JN0607-24
	29	SHORT COLUMN SECTION	2	JN0607-24
30		DUAL RAIL SUPPORT ASSEMBLY		JN0607-24
	5	TOP PLATE	1	JN0607-23
	27	BOTTOM PLATE	2	JN0607-24
	28	LONG COLUMN SECTION	6	JN0607-24
	29	SHORT COLUMN SECTION	4	JN0607-24
31		BEARER	4	JN0607-24

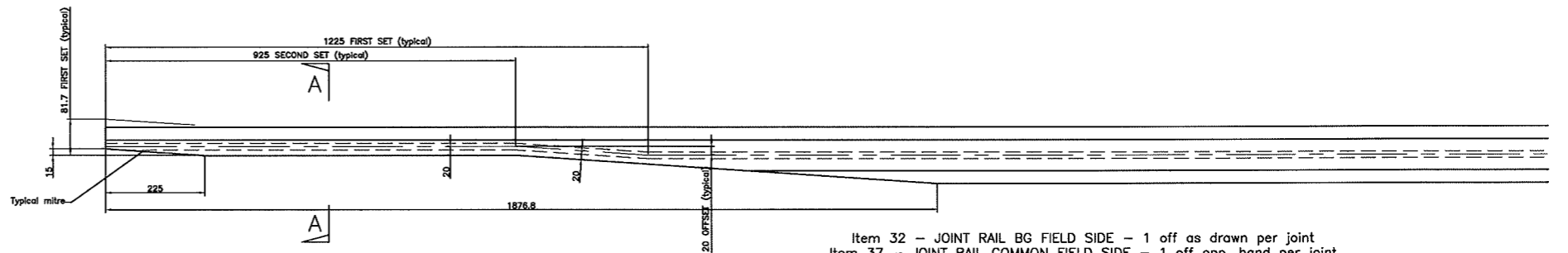
REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION
A	21-2-07	Issued for construction			



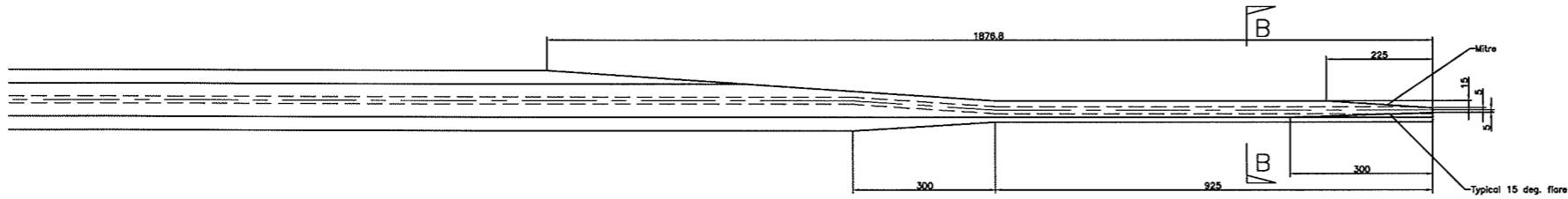
SCALE As shown	DESIGNED RAW
DRAWN RAW	CHECKED RAW
APPROVED	DATE Dec '06

PORT RIVER EXPRESSWAY
STAGE 3 RAIL WORKS
RAIL EXPANSION JOINT
STEEL SUPPORT ASSEMBLY
AND DETAILS

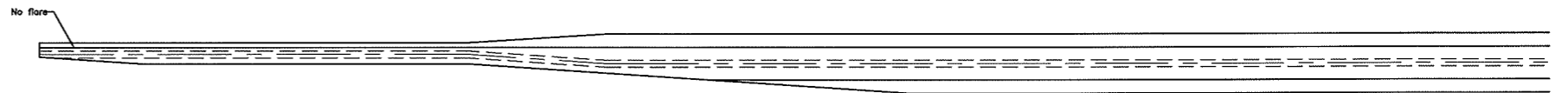
ISSUE	A
SHRINK SIZE	
AO	JN0607-24



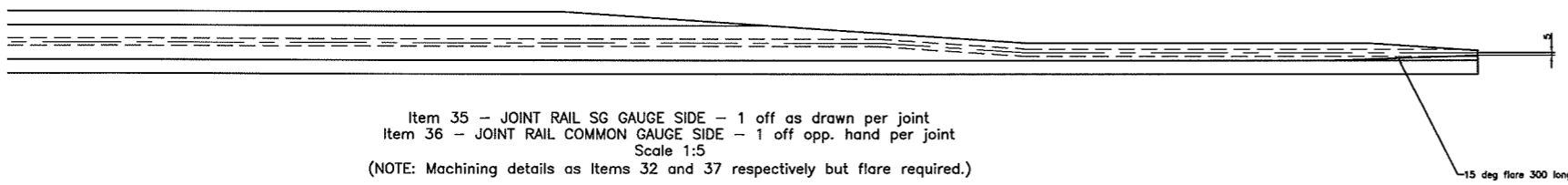
Item 32 - JOINT RAIL BG FIELD SIDE - 1 off as drawn per joint
 Item 37 - JOINT RAIL COMMON FIELD SIDE - 1 off opp. hand per joint
 Scale 1:5



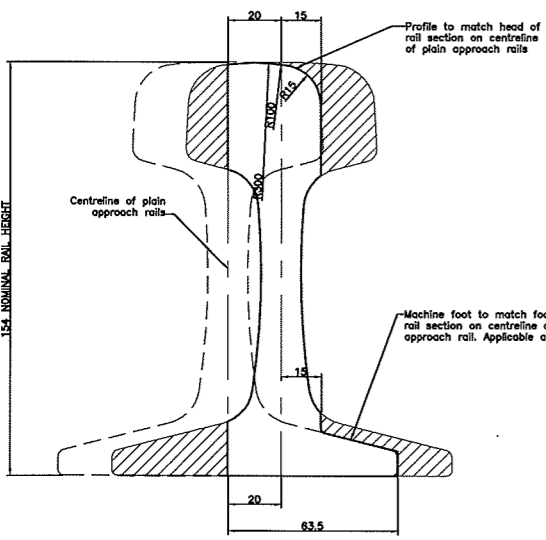
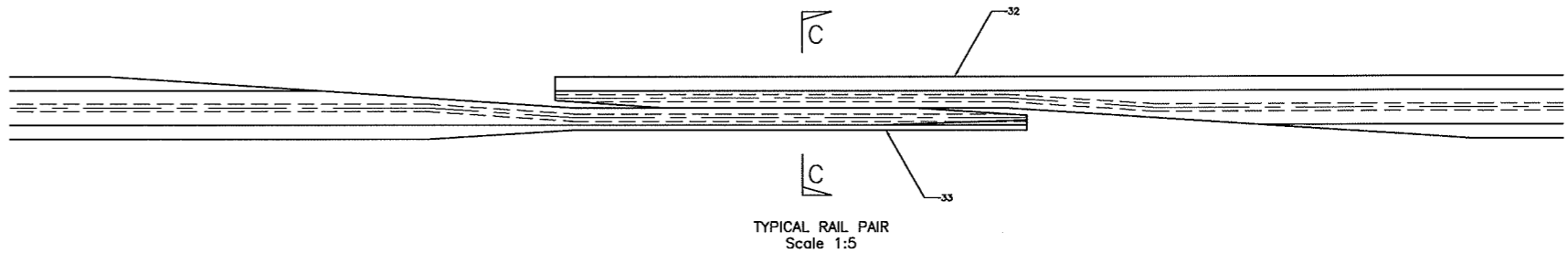
Item 33 - JOINT RAIL BG GAUGE SIDE (H) - 1 off as drawn per joint
 Scale 1:5



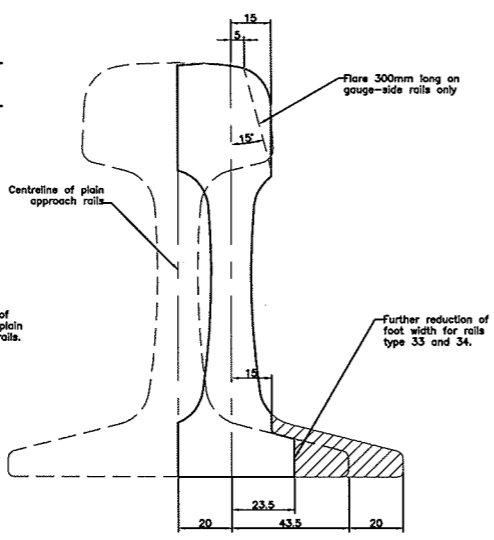
Item 34 - JOINT RAIL SG FIELD SIDE (H) - 1 off as drawn per joint
 Scale 1:5
 (NOTE: Machining details as for Item 33 but no flare.)



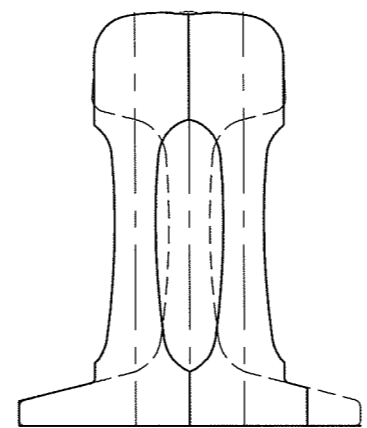
Item 35 - JOINT RAIL SG GAUGE SIDE - 1 off as drawn per joint
 Item 36 - JOINT RAIL COMMON GAUGE SIDE - 1 off opp. hand per joint
 Scale 1:5
 (NOTE: Machining details as Items 32 and 37 respectively but flare required.)



SECTION A-A
 Scale 1:1



SECTION B-B
 Scale 1:1



SECTION C-C
 Scale 1:1

SCHEDULE OF OVERALL RAIL LENGTHS					
ITEM	DESCRIPTION	SLAB-MOUNTED JOINT	NO. OFF	STEEL-SUPPORTED JOINT	NO. OFF
32	BG FIELD SIDE	5200	1	6900 nominal	1
33	BG GAUGE SIDE	6200	1	5900 nominal	1
34	SG FIELD SIDE	5200	1	6900 nominal	1
35	SG GAUGE SIDE	6200	1	5900 nominal	1
36	COMMON RAIL GAUGE SIDE	6200	1	5900 nominal	1
37	COMMON RAIL FIELD SIDE	5200	1	6900 nominal	1

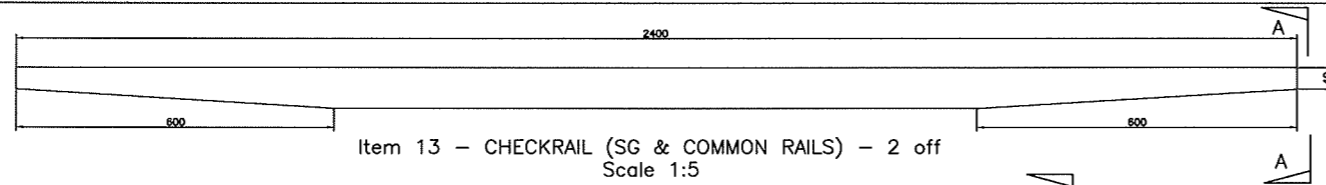
REVISION	DATE	DESCRIPTION	REVISION	DATE	DESCRIPTION
A	17-1-07		A	17-1-07	
B	21-2-07		B	21-2-07	

Railway & Civil
 Engineering Consulting
 56 Coleridge Avenue, Broadmead, SA 5083
 Phone: (08) 8344 6000
 Fax: (08) 8344 6020
 Mobile: 0418 659 734
 E-mail: jrc@railnet.net.au

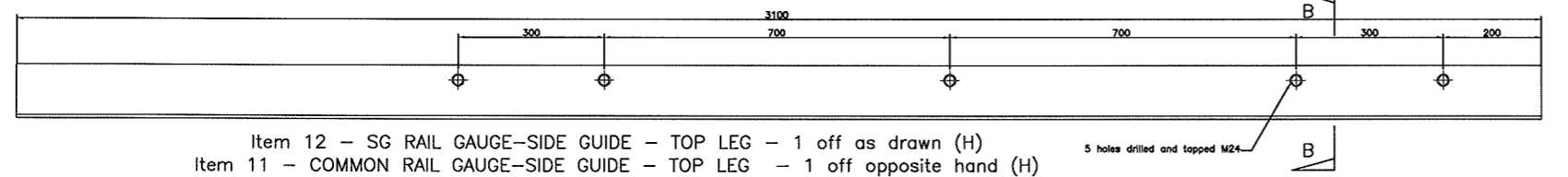
SCALE: As shown
 DESIGNED: RAW
 DRAWN: RAW
 CHECKED: RAW
 APPROVED: [Signature]
 DATE: Nov. '06

PORT RIVER EXPRESSWAY
 STAGE 3 RAIL WORKS
 RAIL EXPANSION JOINT
 50kg AS RAIL MACHINING DETAILS

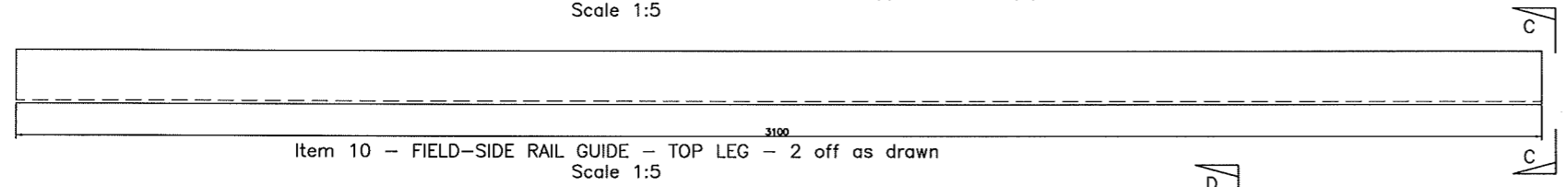
ISSUE: AB
 SHEET: 02
 AO JN0607-25



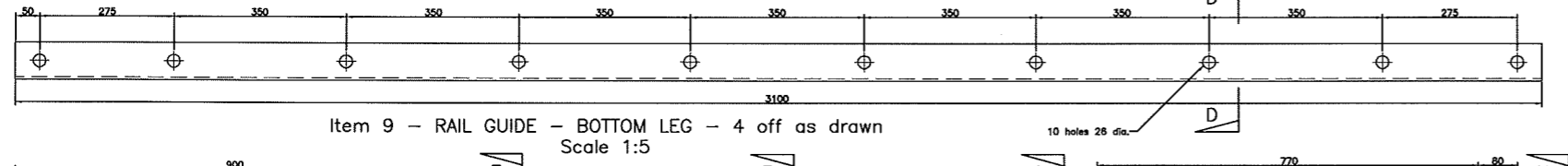
Item 13 - CHECKRAIL (SG & COMMON RAILS) - 2 off
Scale 1:5



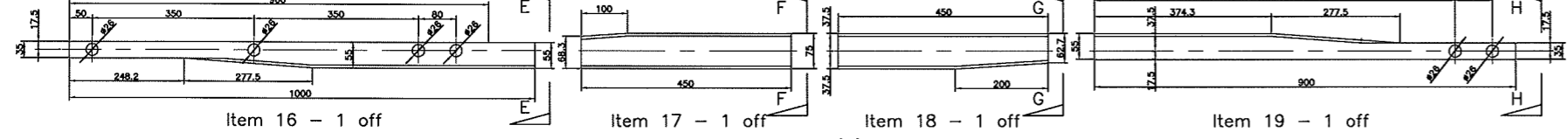
Item 12 - SG RAIL GAUGE-SIDE GUIDE - TOP LEG - 1 off as drawn (H)
Item 11 - COMMON RAIL GAUGE-SIDE GUIDE - TOP LEG - 1 off opposite hand (H)
Scale 1:5



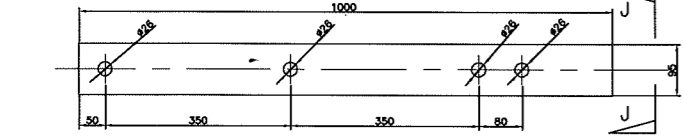
Item 10 - FIELD-SIDE RAIL GUIDE - TOP LEG - 2 off as drawn
Scale 1:5



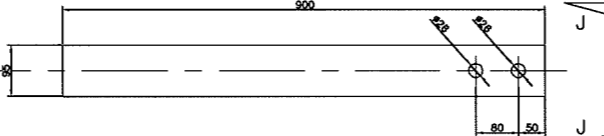
Item 9 - RAIL GUIDE - BOTTOM LEG - 4 off as drawn
Scale 1:5



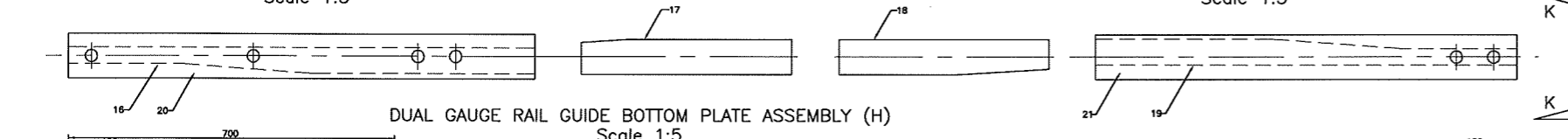
DUAL GAUGE RAIL GUIDE BOTTOM PLATES (H)
ex 75x16 flat
Scale 1:5



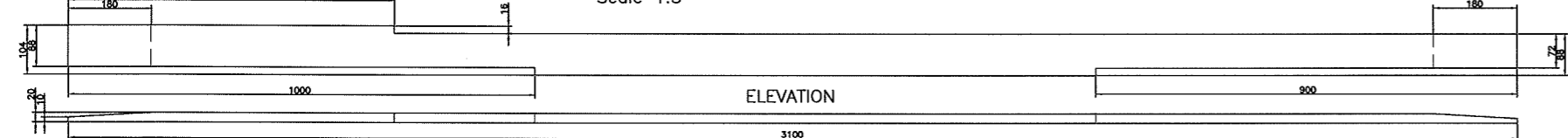
Item 20 - DUAL GAUGE RAIL GUIDE AUXILIARY BOTTOM PLATE
1 off ex 100x16 flat as drawn
Scale 1:5



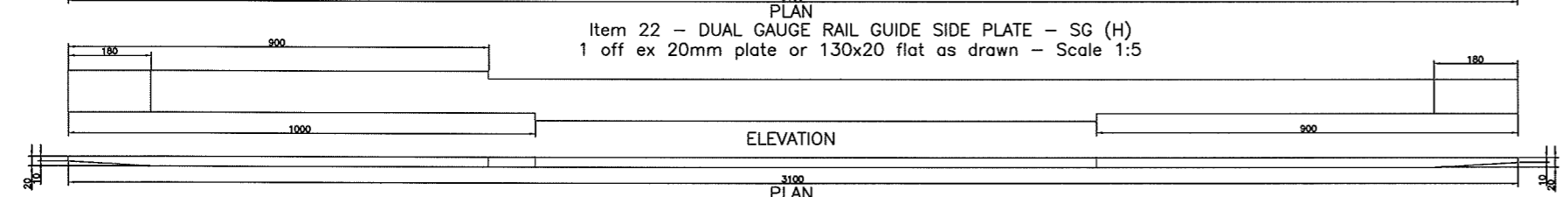
Item 21 - DUAL GAUGE RAIL GUIDE AUXILIARY BOTTOM PLATE
1 off ex 100x16 flat as drawn
Scale 1:5



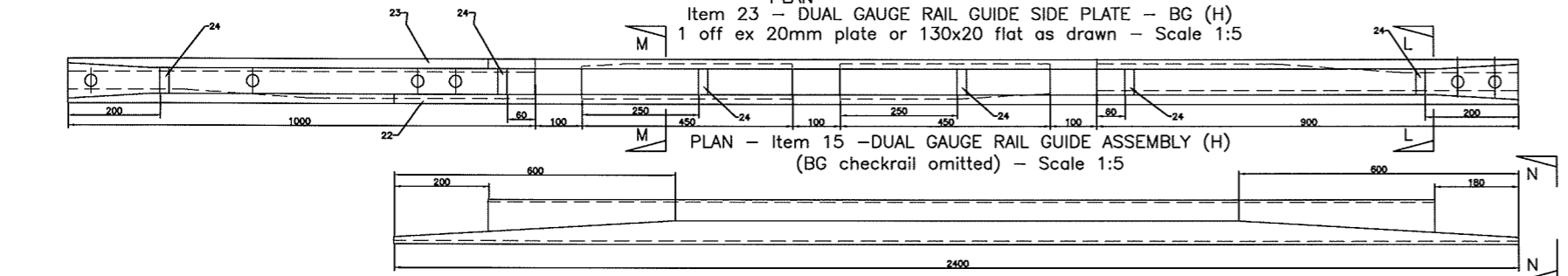
DUAL GAUGE RAIL GUIDE BOTTOM PLATE ASSEMBLY (H)
Scale 1:5



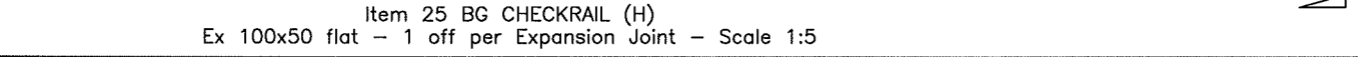
Item 22 - DUAL GAUGE RAIL GUIDE SIDE PLATE - SG (H)
1 off ex 20mm plate or 130x20 flat as drawn - Scale 1:5



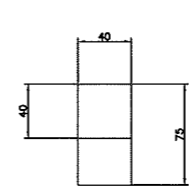
Item 23 - DUAL GAUGE RAIL GUIDE SIDE PLATE - BG (H)
1 off ex 20mm plate or 130x20 flat as drawn - Scale 1:5



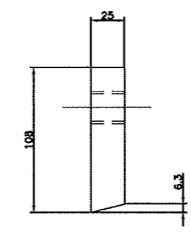
Item 15 - DUAL GAUGE RAIL GUIDE ASSEMBLY (H)
(BG checkrail omitted) - Scale 1:5



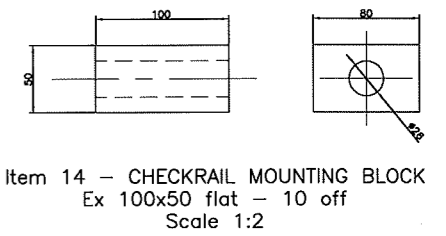
Item 25 BG CHECKRAIL (H)
Ex 100x50 flat - 1 off per Expansion Joint - Scale 1:5



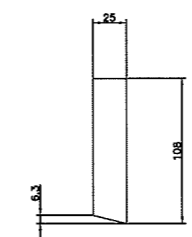
VIEW A-A
Scale 1:2



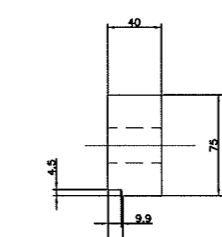
SECTION B-B
Scale 1:2



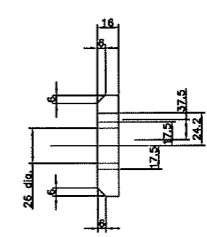
Item 14 - CHECKRAIL MOUNTING BLOCK
Ex 100x50 flat - 10 off
Scale 1:2



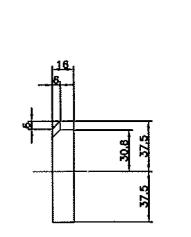
VIEW C-C
Scale 1:2



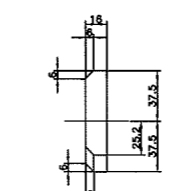
SECTION D-D
Scale 1:2



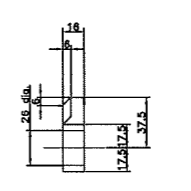
VIEW E-E
Scale 1:2



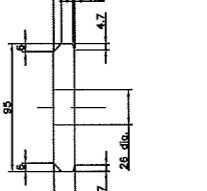
VIEW F-F
Scale 1:2



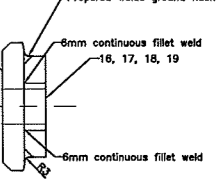
VIEW G-G
Scale 1:2



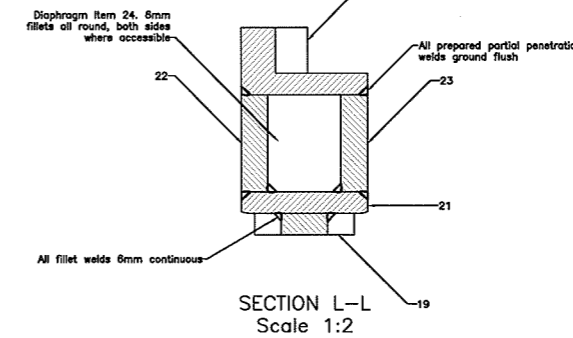
VIEW H-H
Scale 1:2



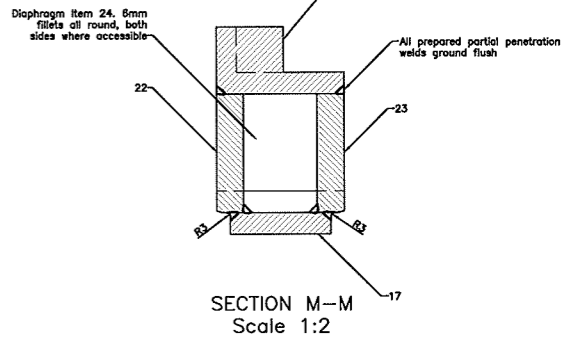
VIEW J-J
Scale 1:2



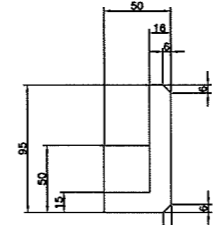
VIEW K-K
Scale 1:2



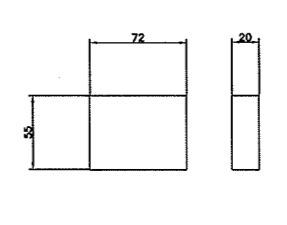
SECTION L-L
Scale 1:2



SECTION M-M
Scale 1:2



VIEW N-N
Scale 1:2



Item 24 - DIAPHRAGM
Ex 75x20 flat - 6 off
Scale 1:2

- NOTES:
- All quantities are per dual gauge expansion joint complete. Rail guide components are common to steel-supported or slab-mounted joints.
 - The drawings show a right-handed joint, with the gauge-side points facing to the right as viewed from the common rail side. Components which are handed are denoted with (H) in the view of the item or assembly. A left-handed joint can be produced by changing the hand of all handed items.
 - Tolerances are +/- 0.5mm on all dimensions relevant to the cross-sections of the guides and +/- 2mm on all longitudinal measurements.
 - All welding shall comply with AS 1554.

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DESIGNED: RAW
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CHECKED: RAW
APPROVED: [Signature]
DATE: Dec '06

PORT RIVER EXPRESSWAY
STAGE 3 RAIL WORKS
RAIL EXPANSION JOINT

RAIL GUIDE DETAILS

ISSUE: A

SHRIMP SIZE: AO

JN0607-26

SHOP ASSEMBLY

- Fabricate U-shaped section of dual rail guides as detailed on Sheet 26, consisting of bottom plates (Items 18-19), auxiliary bottom plates (Items 20, 21), side plates (Items 22, 23), complete with diaphragm (Item 24). Ensure sideplates are plumb and overall width does not exceed 95mm.
- Weld BG checkrail (Item 25) to top of U-shaped section and grind welds designated on Sheet 28 flush.
- Use the top plates of the steel support assemblies (with or without the other steel support assembly elements) as a base for shop assembly of slab-mounted and steel-supported joint assemblies.
- Secure cantilevered dual-rail baseplate to the steel top plate and bolt into position with 16 of the 18 M24 bolts (omitting one bolt at each end of the centre row of bolts).
- Position joint rails on the cantilevered baseplate and lower the dual-rail guide into position. Secure with four M24 bolts. Check BG and SG rails are 165mm apart (gauge face to gauge face). Check clearance between rail feet and lower chamfers of the rail guide. Remove material from the gauge side and/or lower chamfers of the guide if necessary to achieve a sliding fit between correctly spaced rails and the guide.
- Temporarily secure the upper legs of the L-shaped external rail guides against each joint rail. Use shims to ensure a minimum clearance along the length of the assembly between the undersides and top edges of the upper legs and the feet and heads of the joint rails of 1 mm.
- Fit the bottom legs of the external rail guides against the upper legs. Drift the holes if necessary to enable installation of all fixing bolts. Tack weld upper legs to bottom legs and remove to complete welding.
- Bolt the checkrail mounting blocks to the rail guide upper legs on the gauge side of each assembly. Ensure the top faces of the blocks are parallel with the top edges of the L-shaped guides.
- Fit the checkrails on the mounting blocks and check 45mm flangeway and top level with top of rail. Tack weld checkrail to blocks and remove for completion of welding.

FIELD ASSEMBLY - GENERAL

- The neutral position of the joint rails is with their noses 475mm beyond the centreline of the assembly. Refer Sheet 20. All joint rails can move up to 200mm in either direction from this position. If the requirements of the installation site are asymmetric and greater movement is required at one end of the joint, this can be achieved at the expense of movement available at the other end by adopting a neutral position towards the end with less required movement.
- Rail lengths at installation must be determined by the installation contractor on the basis of measured rail and bridge temperatures and the positions of the bridge structures relative to their designed neutral positions.

FIELD ASSEMBLY - SLAB-SUPPORTED JOINT

- Place baseplates on deck slab in correct longitudinal position as shown on Sheet 21.
- Place joint rails with required welding gaps and with the practical points positioned on the baseplates at the neutral positions corrected for measured rail and bridge temperatures.
- Install rail guides with fixing bolts snug tight.
- Adjust all rails for correct alignment, gauge and level. Insert shims or packers as required to achieve required levels.
- Drill slab and install external holding down bolts through the baseplates.
- Remove the dual rail guide and drill and install the remaining five holding down bolts.
- Tension the holding down bolts in accordance with the manufacturer's recommendations.
- Re-install the dual rail guide and tighten all fixing bolts by the port-turn method.

FIELD ASSEMBLY - STEEL-SUPPORTED JOINT IN BALLASTED TRACK

- Assemble support units with RHS bearers in place in required joint position. Fix baseplates to the support units. Note that one bolt of each end of the centre row of bolts on the dual rail baseplate is omitted at this stage.
- Place joint rails with required welding gaps and with the practical points positioned on the baseplates at the neutral positions corrected for measured rail and bridge temperatures.
- Install all rail guides with fixing bolts snug tight.
- Adjust guides to ensure rails can slide in the joint and tighten all external fixing bolts fully by the port turn method.
- Remove the dual rail guide and fully tighten the three inner-most bolts.
- Re-install the dual rail guide and fully tighten the remaining bolts by the port turn method.
- Adjust rails for correct gauge and position bearers in accordance with the drawings. Drill bearers and insert steel pins.

TAMPING OF JOINT IN BALLASTED TRACK

The outer two steel bearers must be tamped before the inner two steel bearers to establish the required vertical alignment. The procedure is outlined in the notice below. The track maintainer may wish to install a notice visible to tamping operators in each direction.

**SPECIAL TAMPING NOTICE
SKIP TWO MARKED
SLEEPERS
TAMP NEXT TWO THEN SET
BACK AND SQUEEZE
SKIPPED SLEEPERS
WITHOUT LIFTING**

TAMPING INSTRUCTIONS
Refer to notes above

SCHEDULE OF MATERIALS

SLAB-MOUNTED RAIL EXPANSION JOINT			
ITEM	DESCRIPTION	NO. OFF	REMARKS
JOINT RAILS			
32	BG FIELD SIDE	1	50kg AS x 5200 long
33	SG GAUGE SIDE	1	50kg AS x 5200 long
34	SG FIELD SIDE	1	50kg AS x 5200 long
35	SG GAUGE SIDE	1	50kg AS x 5200 long
36	COMMON RAIL GAUGE-SIDE	1	50kg AS x 5200 long
37	COMMON RAIL FIELD-SIDE	1	50kg AS x 5200 long
COMMON RAIL JOINT ASSEMBLY			
1	CANTILEVER BASEPLATE	1	ex 32mm plate
9	RAIL GUIDE - BOTTOM LEG	2	ex 75x40 flat x 3100 long
10	RAIL GUIDE - FIELD SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
11	RAIL GUIDE - GAUGE SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
13	SG CHECKRAIL	1	ex 75x40 flat x 2400 long
14	CHECKRAIL MOUNTING BLOCKS	5	ex 100x50 flat x 80mm long
B2	BOLT M24x60mm	10	GRADE 8.8TF
B4	BOLT M24x70mm	10	GRADE 8.8TF
B6	BOLT M24x130mm	5	GRADE 8.8TF
DUAL RAIL JOINT ASSEMBLY			
6	CANTILEVER BASEPLATE	1	ex 50mm plate
9	RAIL GUIDE - BOTTOM LEG	2	ex 75x40 flat x 3100 long
10	RAIL GUIDE - FIELD SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
12	RAIL GUIDE - GAUGE SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
13	SG CHECKRAIL	1	ex 75x40 flat x 2400 long
14	CHECKRAIL MOUNTING BLOCKS	5	ex 100x50 flat x 80mm long
19	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 1000 long
17	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
18	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
19	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
20	RAIL GUIDE AUXILIARY BOTTOM PLATE	1	ex 100x16 flat x 900 long
21	RAIL GUIDE AUXILIARY BOTTOM PLATE	1	ex 100x16 flat x 900 long
22	SIDE PLATE - SG	1	ex 20 plate or 130x20 flat x 3100 long
23	SIDE PLATE - BG	1	ex 20 plate or 130x20 flat x 3100 long
24	DIAPHRAGM	0	ex 75x20 flat x 55 long
25	BG CHECKRAIL	1	ex 100x50 flat x 2400 long
48	TAPERED WASHER	5	ex 6mm plate
B2	BOLT M24x60mm	14	GRADE 8.8TF
B4	BOLT M24x70mm	10	GRADE 8.8TF
B6	BOLT M24x130mm	5	GRADE 8.8TF
APPROACH BASEPLATES			
38	CANTILEVER COMMON RAIL BASEPLATE 1 in 20	2	ex 32 plate (475x200)
39	CANTILEVER COMMON RAIL BASEPLATE 1 in 30	1	ex 32 plate (475x200)
40	CANTILEVER COMMON RAIL BASEPLATE 1 in 40	1	ex 32 plate (475x200)
41	CANTILEVER COMMON RAIL BASEPLATE 1 in 60	1	ex 32 plate (475x200)
42	CANTILEVER DUAL RAIL BASEPLATE 1 in 20	2	ex 40 plate (625x200)
43	CANTILEVER DUAL RAIL BASEPLATE 1 in 30	1	ex 40 plate (625x200)
44	CANTILEVER DUAL RAIL BASEPLATE 1 in 40	1	ex 40 plate (625x200)
45	CANTILEVER DUAL RAIL BASEPLATE 1 in 60	1	ex 40 plate (625x200)
PANDROL SHOULDERS			
PANDROL DUAL GAUGE SHOULDER		20	22,23
PANDROL DUAL GAUGE SHOULDER		5	23
SLAB MOUNTING ITEMS			
7	CONFORMING HOPE SHIM - COMMON RAIL	1	ex 5mm HOPE
8	CONFORMING HOPE SHIM - DUAL RAIL	1	ex 5mm HOPE
46	CONFORMING HOPE SHIM - COMMON RAIL	5	ex 5mm HOPE
47	CONFORMING HOPE SHIM - DUAL RAIL	5	ex 5mm HOPE
B7	STUD M24x285mm PLUS RESIN CAPSULE	16	GRADE 8.8TF
B8	STUD M24x300mm PLUS RESIN CAPSULE	41	GRADE 8.8TF
B9	STUD M24x310mm PLUS RESIN CAPSULE	18	GRADE 8.8TF
B10	STUD M24x330mm PLUS RESIN CAPSULE	2	GRADE 8.8TF
B12	SPRING WASHER/DOUBLE HELICAL	77	DELUCOR Fw6

STEEL-SUPPORTED RAIL EXPANSION JOINT			
ITEM	DESCRIPTION	NO. OFF	REMARKS
JOINT RAILS			
32	BG FIELD SIDE	1	50kg AS x 6900 long
33	SG GAUGE SIDE	1	50kg AS x 6900 long
34	SG FIELD SIDE	1	50kg AS x 6900 long
35	SG GAUGE SIDE	1	50kg AS x 6900 long
36	COMMON RAIL GAUGE-SIDE	1	50kg AS x 6900 long
37	COMMON RAIL FIELD-SIDE	1	50kg AS x 6900 long
COMMON RAIL JOINT ASSEMBLY			
3	CANTILEVER BASEPLATE	1	ex 32mm plate
9	RAIL GUIDE - BOTTOM LEG	2	ex 75x40 flat x 3100 long
10	RAIL GUIDE - FIELD SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
11	RAIL GUIDE - GAUGE SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
13	SG CHECKRAIL	1	ex 75x40 flat x 2400 long
14	CHECKRAIL MOUNTING BLOCKS	5	ex 100x50 flat x 80mm long
B1	BOLT M24x50mm	8	GRADE 8.8TF
B2	BOLT M24x60mm	10	GRADE 8.8TF
B3	BOLT M24x65mm	8	GRADE 8.8TF
B4	BOLT M24x70mm	10	GRADE 8.8TF
B6	BOLT M24x130mm	5	GRADE 8.8TF
DUAL RAIL JOINT ASSEMBLY			
6	CANTILEVER BASEPLATE	1	ex 50mm plate
9	RAIL GUIDE - BOTTOM LEG	2	ex 75x40 flat x 3100 long
10	RAIL GUIDE - FIELD SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
12	RAIL GUIDE - GAUGE SIDE - UPPER LEG	1	ex 25 plate or 130x25 flat x 3100 long
13	SG CHECKRAIL	1	ex 75x40 flat x 2400 long
14	CHECKRAIL MOUNTING BLOCKS	5	ex 100x50 flat x 80mm long
16	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 1000 long
17	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
18	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
19	RAIL GUIDE BOTTOM PLATE	1	ex 75x16 flat x 450 long
20	RAIL GUIDE AUXILIARY BOTTOM PLATE	1	ex 100x16 flat x 900 long
21	RAIL GUIDE AUXILIARY BOTTOM PLATE	1	ex 100x16 flat x 900 long
22	SIDE PLATE - SG	1	ex 20 plate or 130x20 flat x 3100 long
23	SIDE PLATE - BG	1	ex 20 plate or 130x20 flat x 3100 long
24	DIAPHRAGM	0	ex 75x20 flat x 55 long
25	BG CHECKRAIL	1	ex 100x50 flat x 2400 long
48	TAPERED WASHER	5	ex 6mm plate
B1	BOLT M24x50mm	8	GRADE 8.8TF
B2	BOLT M24x60mm	14	GRADE 8.8TF
B3	BOLT M24x65mm	3	GRADE 8.8TF
B4	BOLT M24x70mm	18	GRADE 8.8TF
B5	BOLT M24x80mm	2	GRADE 8.8TF
B6	BOLT M24x130mm	5	GRADE 8.8TF
STEEL SUPPORT UNIT - COMMON RAIL			
27	CONFORMING TOP PLATE	1	ex 32mm plate
28	COLUMN SECTION	2	ex 150x37.2 x 3100 long
29	COLUMN SECTION	4	ex 150x37.2 x 430 long
STEEL SUPPORT UNIT - DUAL RAIL			
5	CONFORMING TOP PLATE	1	ex 32mm plate
27	BOTTOM PLATE	1	ex 150x20 flat x 2650 long
28	COLUMN SECTION	4	ex 150x37.2 x 190 long
29	COLUMN SECTION	8	ex 150x37.2 x 410 long
STEEL BEARERS			
31	STEEL BEARERS	4	ex 250x150x9RHS x 2525 long
B11	STEEL PIN 24 DIAMETER	8	ex 40mm round x 150 o.s. long

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PORT RIVER EXPRESSWAY
STAGE 3 RAIL WORKS
RAIL EXPANSION JOINT
SHOP AND FIELD ASSEMBLY
PROCEDURES

ISSUE	A
SHEET	AO
NO	JN0607-27