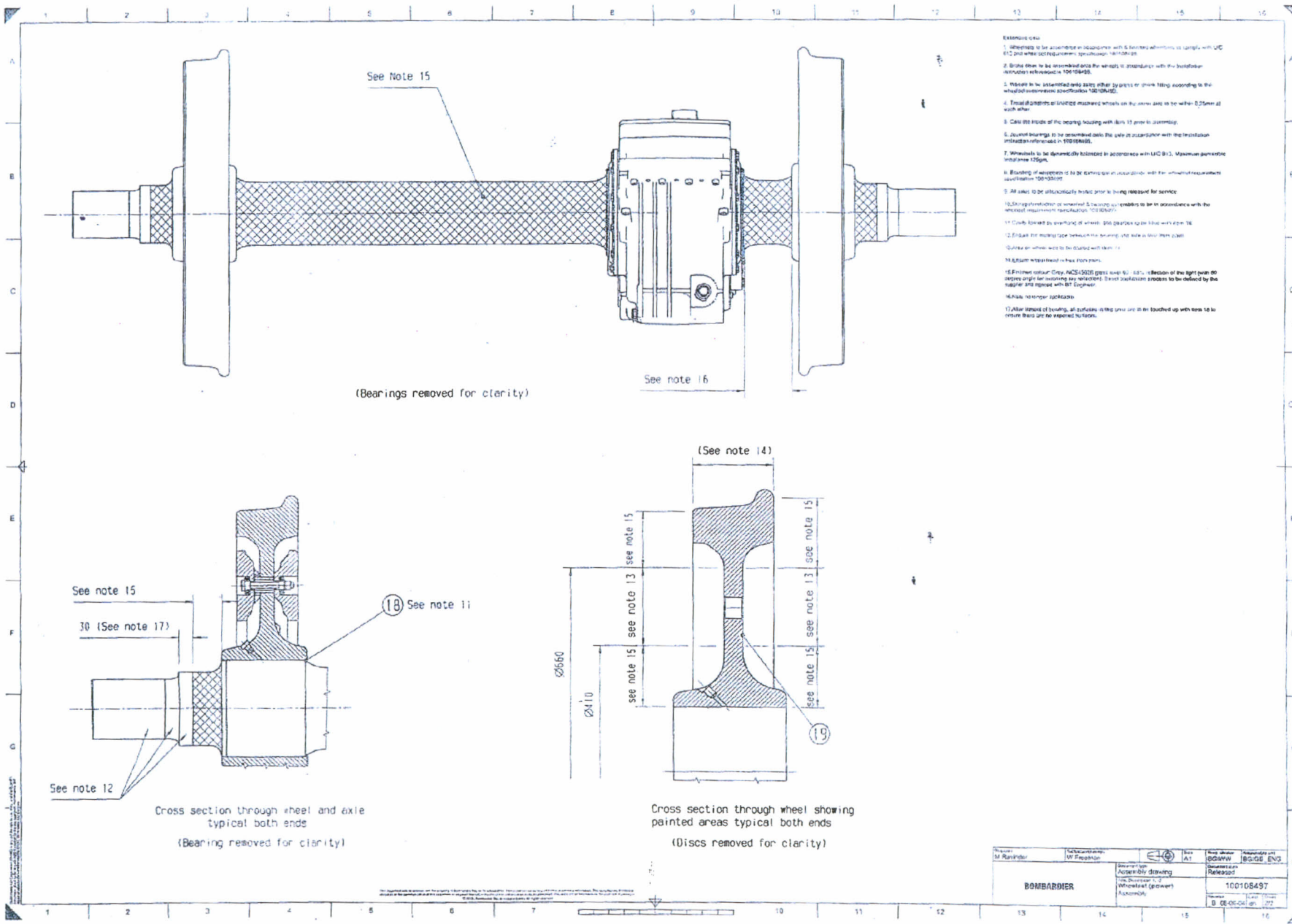


Volume, Description, Page, Clause, Location etc.	Amendments
Technical specification clause no 4.2.3	<p>REPLACE: The gap in the resistance column shall be large enough so that parts like transmission system on the Power Axle (M) of Rolling Stock and gears already mounted on the axle do not obstruct the mounting and dismounting operations for wheels. Sizing of the gap in the resistance column shall be made as per rolling stock wheel assembly drawing.</p> <p>WITH: The gap in the resistance column shall be large enough so that parts like transmission system on the Power Axle (M) of Rolling Stock and gears already mounted on the axle do not obstruct the mounting and dismounting operations for wheels. Sizing of the gap in the resistance column shall be made as per rolling stock wheel assembly drawings as enclosed for tendering purpose but detailed drawings will be provided during the design stage.</p>
Technical specification clause no 12.5.2	<p>REPLACE: The warranty period shall be 24 months after the date of issue of successful commissioning and proving test certificate of the last Surface Wheel Lathe jack at site. Any approval or acceptance issued by the Client during the course of installation, commissioning & proving out tests shall not in any way limit the Contractor's liability.</p> <p>WITH: The warranty period shall be 24 months after the date of issue of successful commissioning and proving test certificate of the last Wheel press at site. Any approval or acceptance issued by the Client during the course of installation, commissioning & proving out tests shall not in any way limit the Contractor's liability.</p>
Technical specification clause no 1	NO change.
Technical specification clause no 4.10	No change.

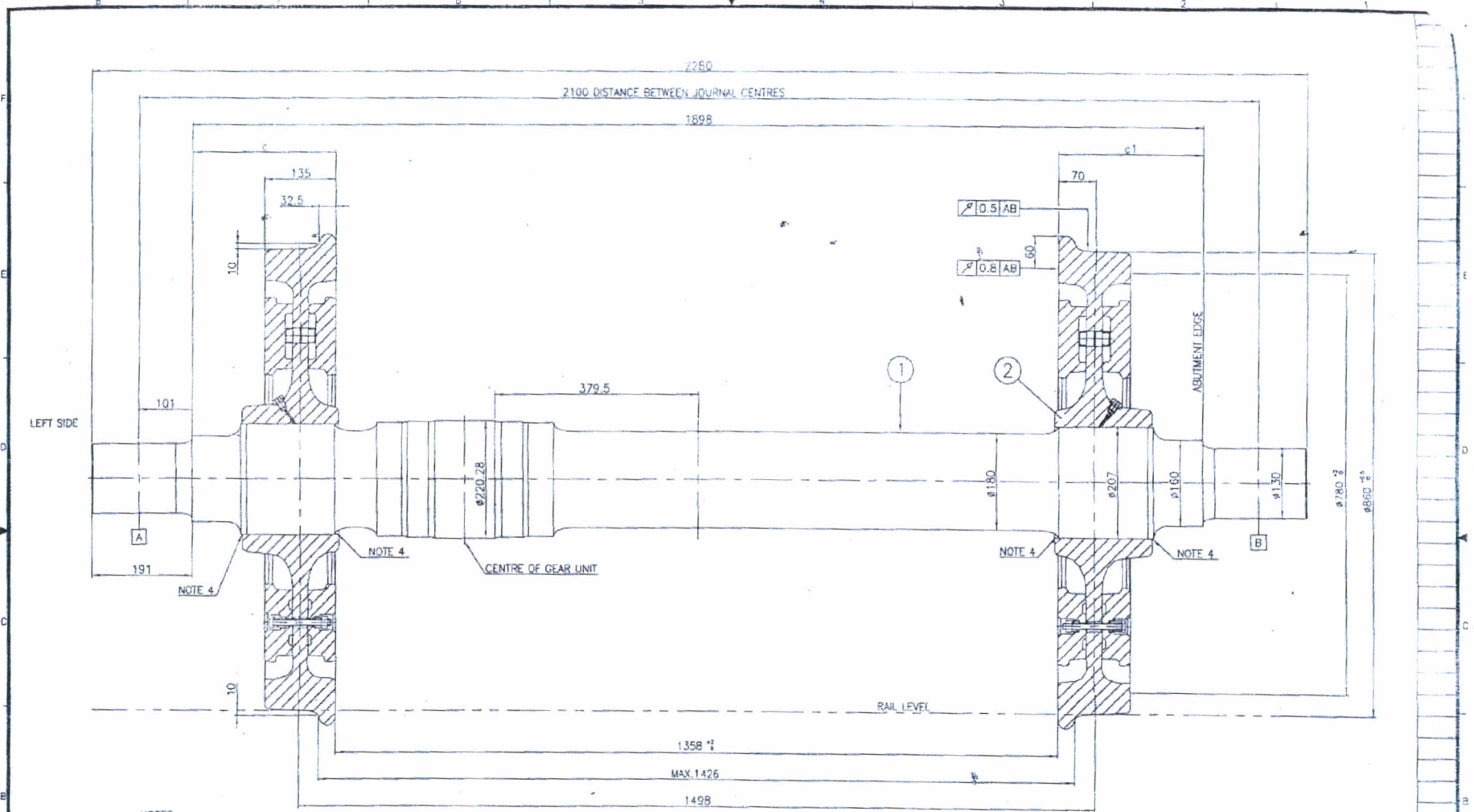
Re-2



- EXPLANATORY NOTES**
1. Assembly to be assembled in accordance with 6. Service advisory is largely with UIC 612 and wheel set equipment specifications 140104/01.
 2. Brakes shall be assembled onto the wheels in accordance with the installation instructions referenced in 100104/03.
 3. Wheels to be inspected daily using either by press or shank filing according to the wheel set maintenance specifications 100104/02.
 4. Final 20 degrees of conical mounted wheels on the axle are to be within 0.25mm of each other.
 5. Care the inside of the bearing housing with item 13 prior to assembly.
 6. Journal bearings to be assembled onto the axle in accordance with the installation instructions referenced in 100104/03.
 7. Wheelsets to be dynamically balanced in accordance with UIC 613. Maximum permissible imbalance 15gms.
 8. Banding of equipment to be in accordance with applicable with the technical requirements specification 100103/07.
 9. All axles to be ultrasonically tested prior to being released for service.
 10. All components of wheelset & bearing assembly to be in accordance with the wheelset equipment manufacturing 100104/01.
 11. Check for wear of axle: 250 grams scale load with item 18.
 12. Engage the motorcycle between the bearing and axle to bear item 18. Grease on wheel sets to be started with item 11.
 13. Minimum wheelset to free from rain.
 14. Finishes colour: Grey, ACS-15020 (grey) with 60-80% reflection of light (max 80 degree angle) for surface by reflection. Discs (dark grey) to be defined by the holder and agreed with BE Engineer.
 15. Finish to be as specified.
 16. After finish of bearing, all surfaces in the groove to be touched up with item 16 to ensure there are no exposed surfaces.

Author M Ravinder	Checked/Reviewed M Pappan	Scale A1	Drawn/Checked S. GAWW	Released/Approved S. GAWW
Title Assembly drawing Wheelset (gross) Axle only		Drawing No. 100108497		
Company BOMBARDIER		Revision B 08-06-04 en 077		

RS-3



NOTES

1. DIFFERENCE BETWEEN "c" AND "c1" SHALL BE MAX. 1mm.
2. IMBALANCES OF BOTH WHEELS OF WHEELSET ARE ON THE SAME PLANE WHICH PASSED THROUGH AXIS OF AXLE AND IMBALANCES ARE POSITIONED AT SAME SIDE OF AXLE
3. PRESS FITTING THE MAXIMUM FORCE REACHED DURING THE PRESS-FITTING OPERATION SHALL BE MIN. 704 kN, MAX. 1200 kN
4. SPACE WILL BE FILLED WITH SEALING COMPOUND LOCTITE 5699-ULTRAGRAY.
5. MAX. AXLELOAD IS 17 ton.

2	TRP09105AB/RS3	WHEEL ASSEMBLY	ASSY	2		
1	TRP09101AB/RS3	AXLE MOTOR	EX41 CATEGORY 2	1		
NO.	PART NO.	DESCRIPTION	MATERIAL	QTY	W.T.	REMARKS

TOLERANCES ON SURFACE TO 1:50		TOLERANCES OTHER THAN SPECIFIED TO 2:100		TITLE		WHEEL & AXLE ASS'Y (M)	
DRN	J.H.JUNG	21.11.2007		DRG. NO.	MS	TRP09101AB/RS3	Ver
CHK	H.S.OH	18.04.2008		APP	C.G.KIM	18.04.2008	Rev
SIZE	A2	MAT'L	ASSY	SCALE	1/5	SHEET	1 OF 1

MARK	DATE	DETAIL OF REVISION (E/C ZONE)	E.C. NO.	DGN	CHK	APP	OPM Drawing No
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DELHI METRO RAIL CORPORATION