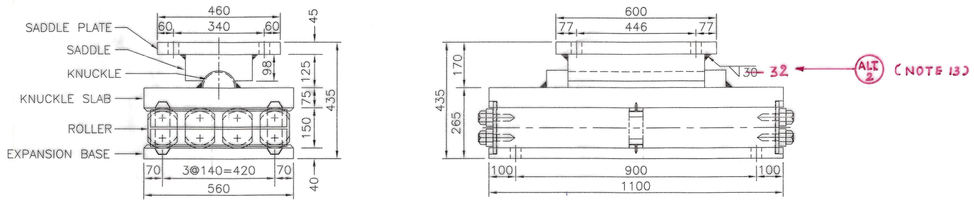
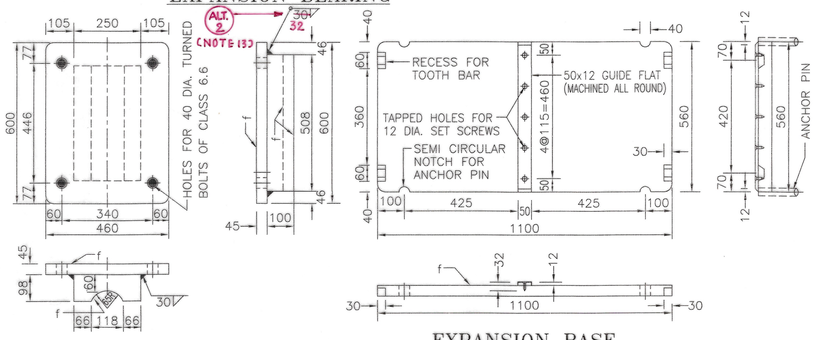
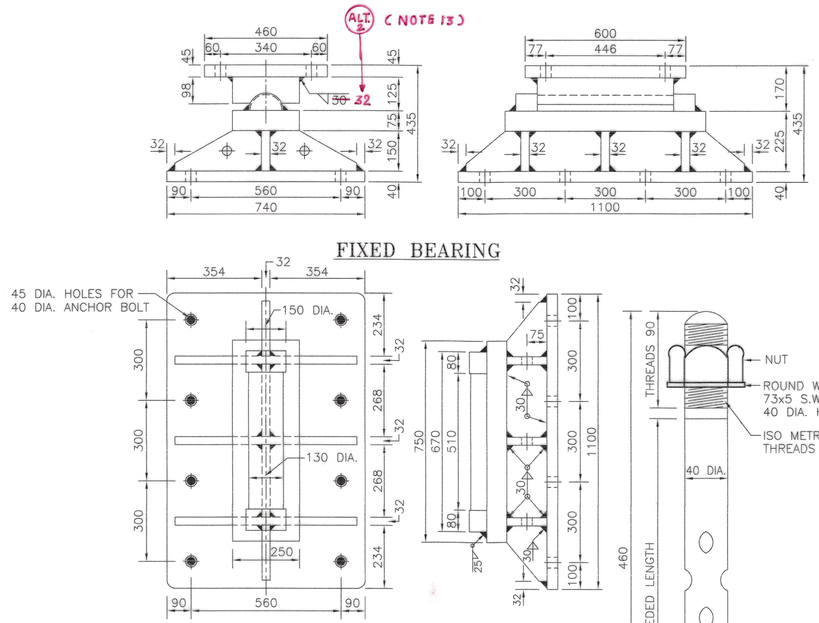


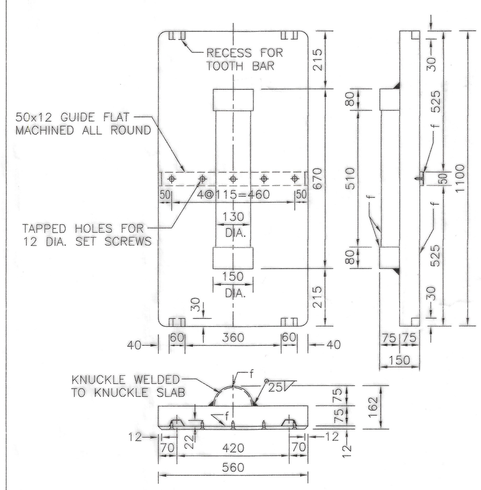
EXPANSION BEARING



FIXED BEARING

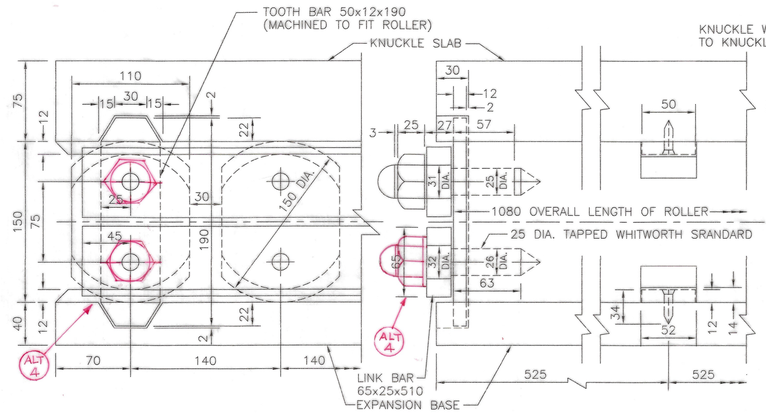


SADDLE & SADDLE PLATE

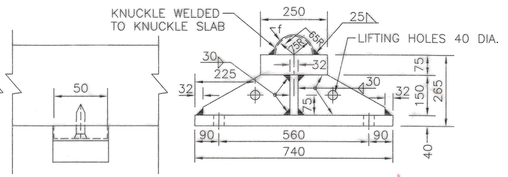


ROLLER END WITH TOOTH BAR

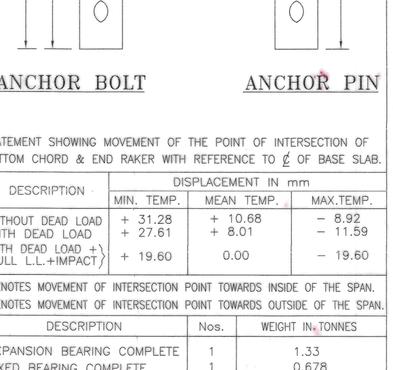
DETAILS OF BEARING



KNUCKLE & KNUCKLE SLAB

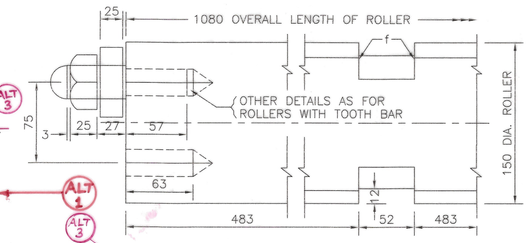


FIXED KNUCKLE



13. ALL AROUND 32 MM WELD EXCEPT 15MM WELD IN 4x54 MM LENGTH NEAR BOLT HOLES. (ALT 2) (ALT 3)

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ~~DESIGNED FOR R.C.BED BLOCK OF ORDINARY CONCRETE (M-150) ADOPTING 42.2 Kg/sq cm PERMISSIBLE PRESSURE.~~
3. THE DESIGN IS IN ACCORDANCE WITH IRS STEEL BRIDGE CODE WITH 25t LOADING-2008 & WELDED BRIDGE CODE.
4. WELDABLE MATERIAL TO BE USED, EXCEPT ROLLERS, SHALL BE OF MILD STEEL TO IS:2062, QUALITY 'Bo' FULLY KILLED & FULLY NORMALIZED. OTHER MATERIAL WHERE WELDING IS NOT INVOLVED CAN BE AS PER IS: 2062, QUALITY 'A' SEMI KILLED MINIMUM.
5. ROLLERS, WHEN FORGED, SHALL BE TO CLASS 3 OF IS:2004-1978. ALTERNATIVELY THEY MAY BE TURNED FROM CARRIAGE AND WAGON AXLE MANUFACTURED AFTER 1931.
6. ALL THE EDGES OF THE PLATES SHOULD BE MACHINED FLAME CUT, SAWN OR PLANED.
7. HOLES FOR TURNED BOLTS SHOULD BE 1mm UNDER DRILLED IN SHOP AND SHOULD BE REAMED AT SITE TO MATCH THE DIA OF THE TURNED BOLTS.
8. ALL MACHINED SURFACES ARE SHOWN THUS --- f.
9. THE BASE SLAB SHOULD BE SO POSITIONED THAT THE TOOTH BARS OF ROLLERS ARE VERTICAL AT MEAN TEMPERATURE WHEN LIVE LOAD, WITH FULL IMPACT, OCCUPIES FULL SPAN.
10. PRE-HEATING FOR WELDING THE JOINTS, SHALL BE CARRIED OUT WHEN CONDITIONS WARRANT THE SAME.
11. ROLLERS ARE TO BE MACHINED ALL OVER.
12. METHOD OF ASSEMBLY AND WELDING SHOULD BE SO AS TO ENSURE PERFECT CONTACT BETWEEN MACHINED SURFACES OF THE FINISHED BEARINGS.



ORDINARY ROLLER END

2. THE BASE PLATE OF BEARINGS HAVE BEEN DESIGNED, ADOPTING 42.2 Kg/sq.cm PERMISSIBLE PRESSURE. THE PIER CAP AND BEARING PEDESTALS SHALL BE DESIGNED SUITABLY AS PER RELEVANT CODES & MANUALS.

STATEMENT SHOWING MOVEMENT OF THE POINT OF INTERSECTION OF BOTTOM CHORD & END RAKER WITH REFERENCE TO ℄ OF BASE SLAB.

DESCRIPTION	DISPLACEMENT IN mm		
	MIN. TEMP.	MEAN TEMP.	MAX.TEMP.
WITHOUT DEAD LOAD	+ 31.28	+ 10.68	- 8.92
WITH DEAD LOAD	+ 27.61	+ 8.01	- 11.59
WITH DEAD LOAD + FULL L.L.+IMPACT	+ 19.60	0.00	- 19.60

+ DENOTES MOVEMENT OF INTERSECTION POINT TOWARDS INSIDE OF THE SPAN.
- DENOTES MOVEMENT OF INTERSECTION POINT TOWARDS OUTSIDE OF THE SPAN.

DESCRIPTION	Nos.	WEIGHT IN TONNES
EXPANSION BEARING COMPLETE	1	1.33
FIXED BEARING COMPLETE	1	0.678

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ALT:	DESCRIPTION	DATE
4.	VIEW CORRECTED.	
3.	NOTE NO.2 MODIFIED.	
2.	WELD SIZE ALTERED & NOTE NO. 13 ADDED FOR WELDING BETWEEN SADDLE & SADDLE PLATE.	
1	NOTE NO 4 ALTERED.	

NOTE	SPECIFICATION	SCALE
	IRS WELDED BRIDGE CODE - 1972 STEEL BRIDGE CODE - 1962 FABRICATION & ERECTION IRS B1-2001	MILLIMETRES 25 0 25 50 75 100 125 1:2.5 100 0 100 200 300 400 500 1:10

अ0 अ0 मा0 स0
R. D. S. O.

25टी भारण -2008
25T LOADING - 2008
45.7 मी0 पाट
45.7 m SPAN
खुलापेटा गर्डर (वेल्डेड पारगामी प्रकार)
OPEN WEB GIRDER (WELDED THROUGH TYPE)
धारकों का विवरण
DETAILS OF BEARINGS

RDSO/B-17181/3

CALCULATION REGISTER No.DD/2014/26	COMPUTERISED BY: (PRAMOD SAH/SSE)	(HARIOM NARAYAN) SCRUTINISED & CHECKED BY ADE/SS-III	(SRIJAN TRIPATHI) SCRUTINISED & CHECKED BY DBS/SB-I	APPROVED BY EDBS (A.K.DADARYA)	AutoCAD FILE No. B17181/3	FLOPPY No.
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