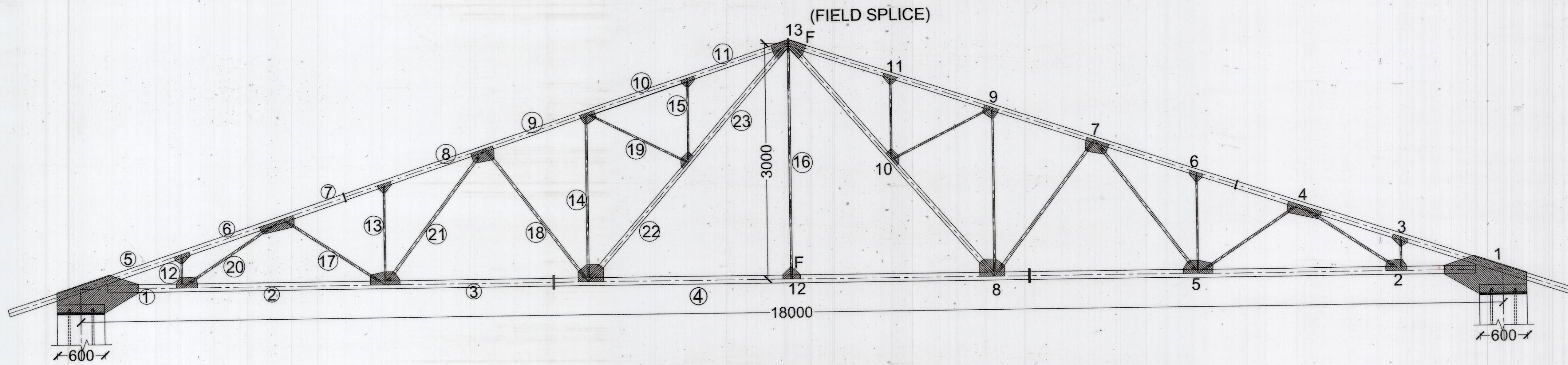
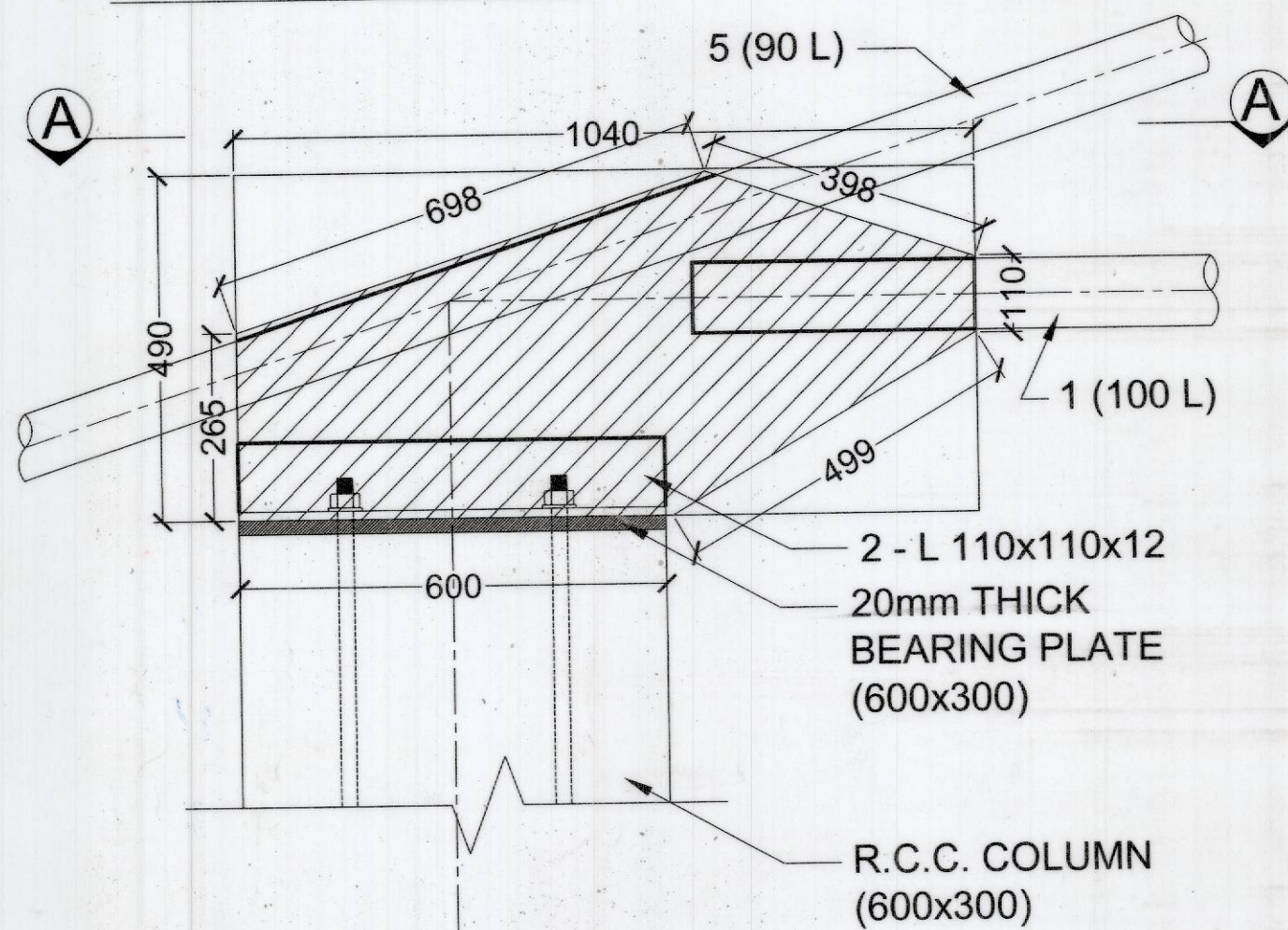
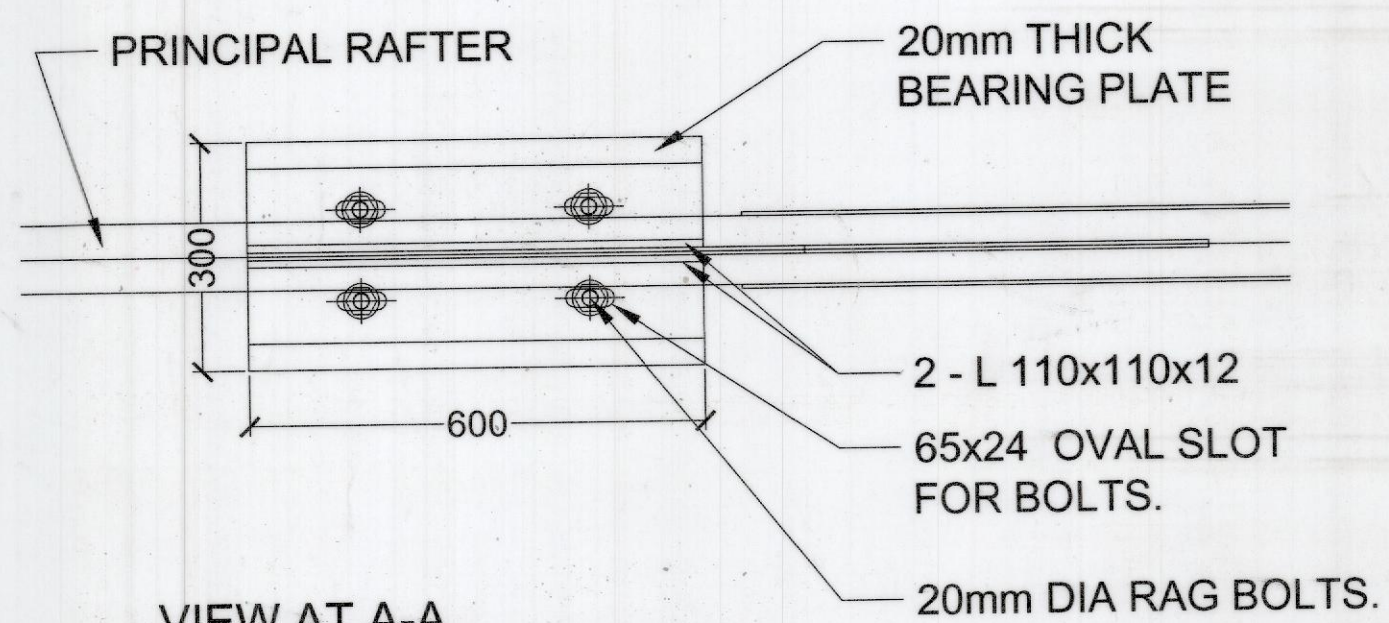




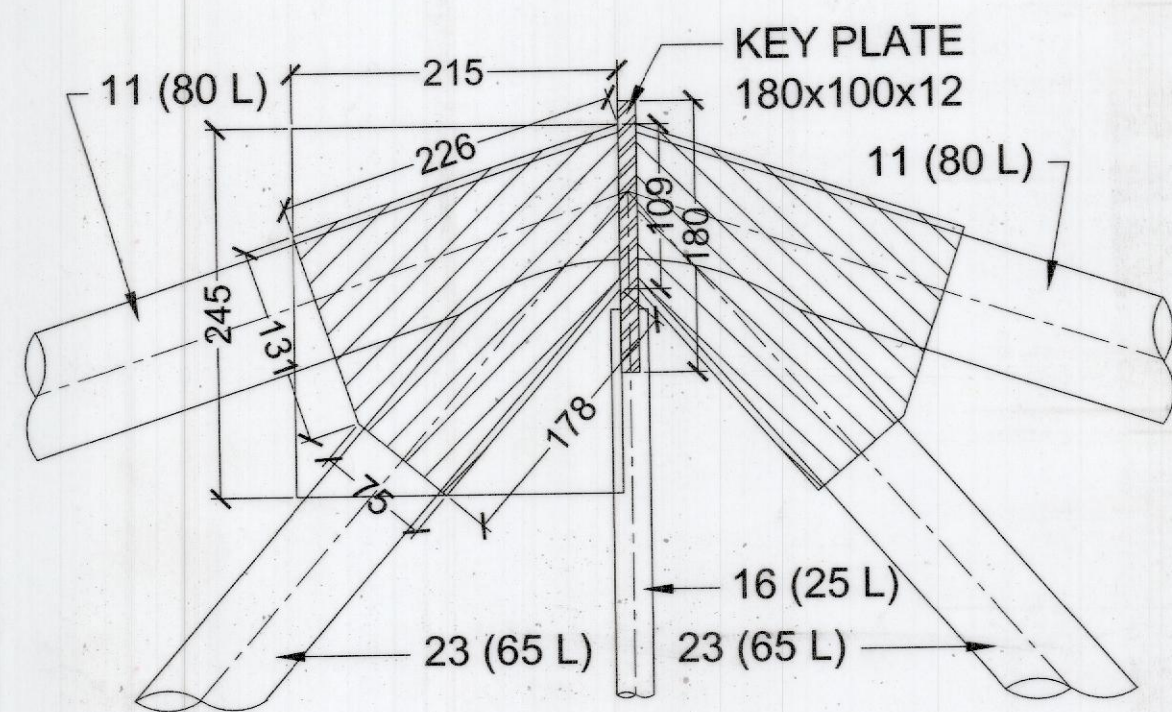
VIEW OF TRUSS



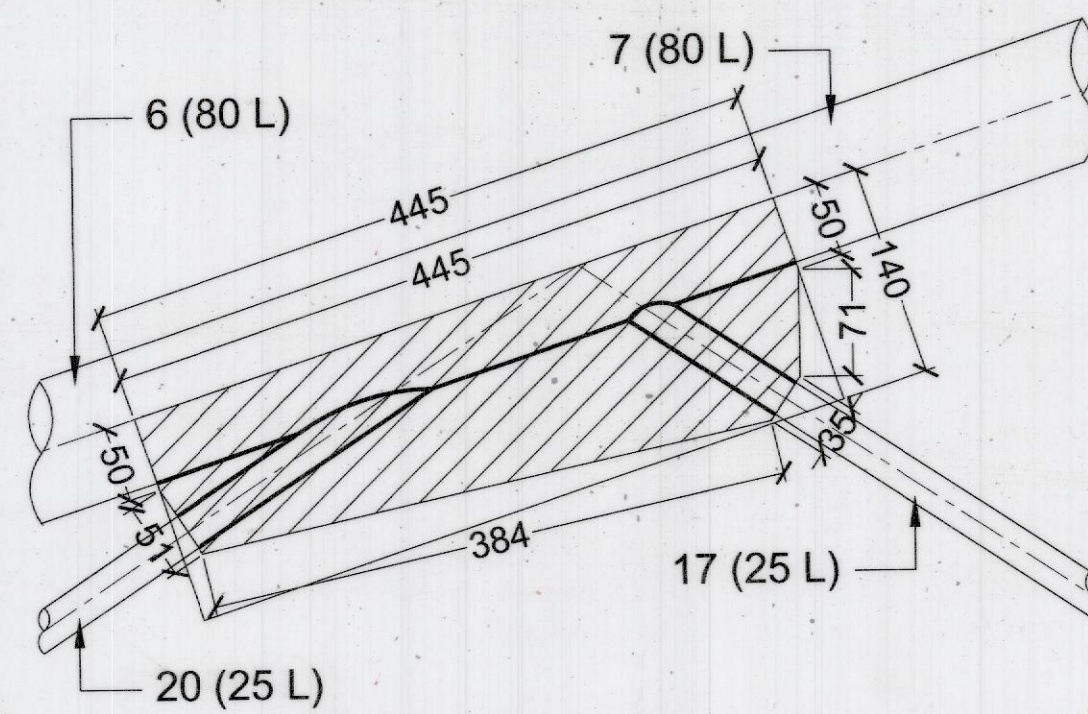
DETAIL OF JOINT 1



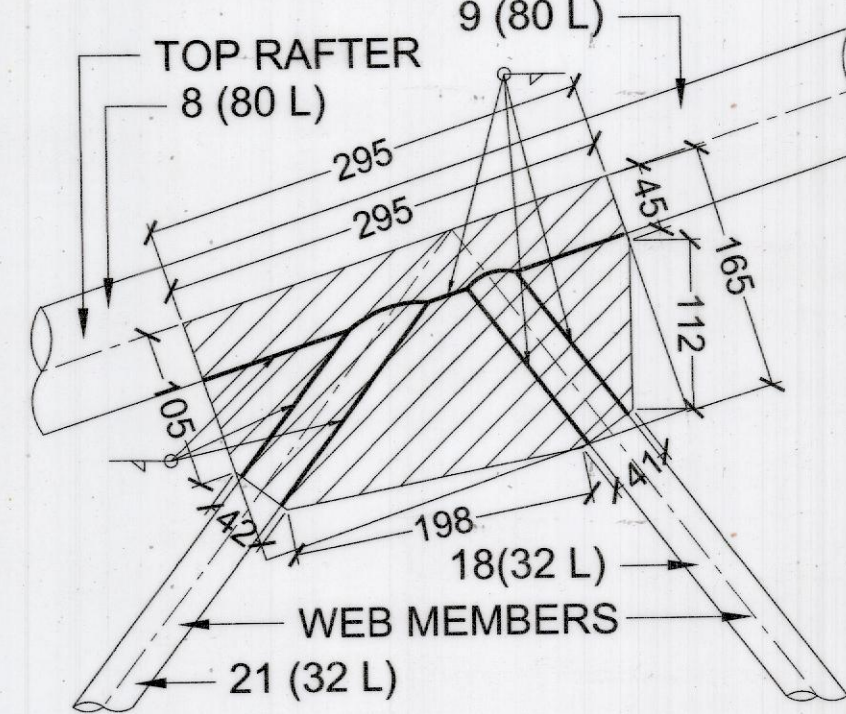
VIEW AT A-A



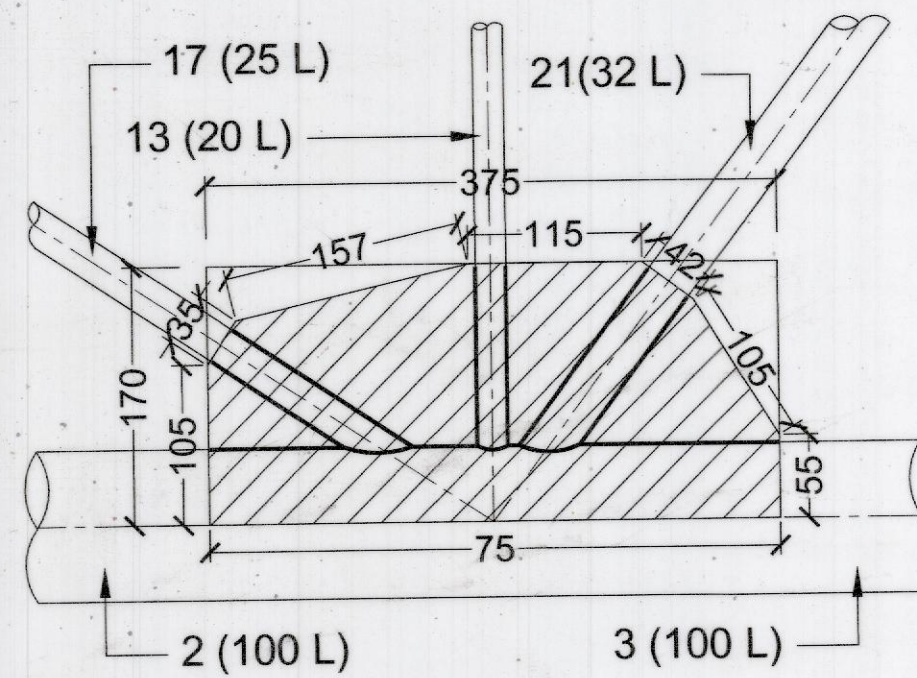
DETAIL OF JOINT 13



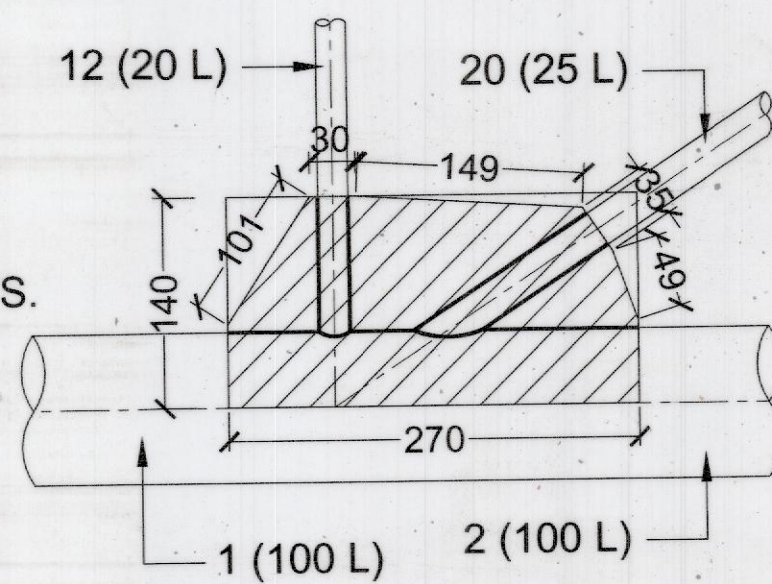
DETAIL OF JOINT 4



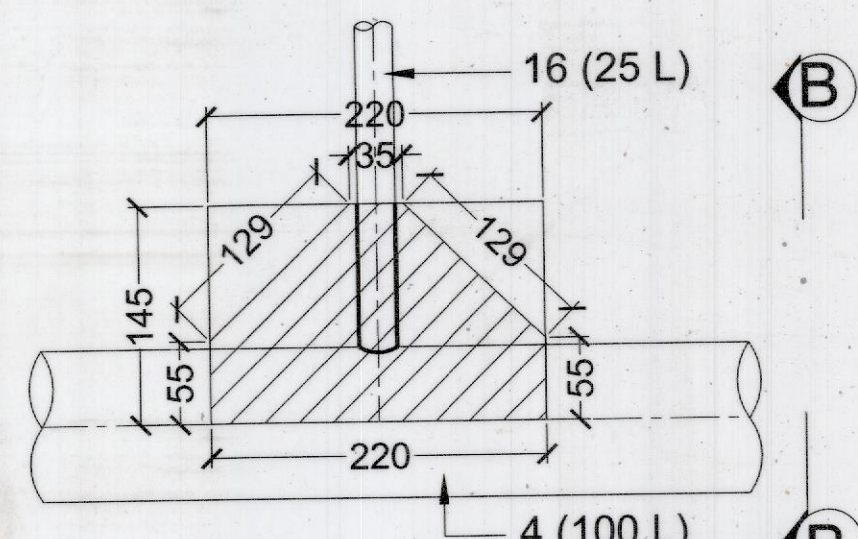
DETAIL OF JOINT 7



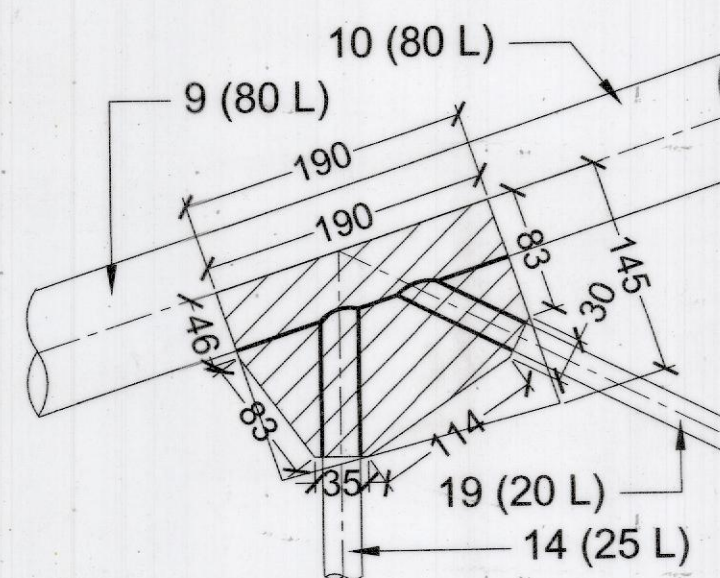
DETAIL OF JOINT 5



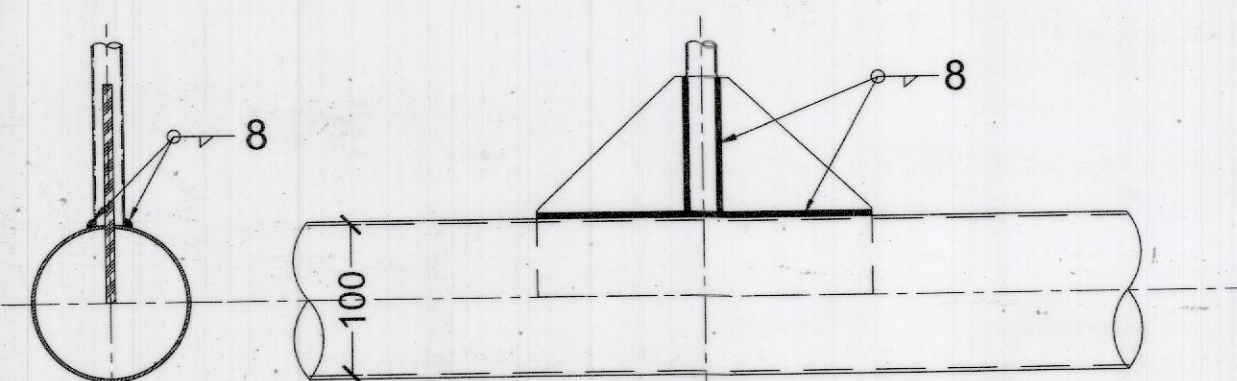
DETAIL OF JOINT 2



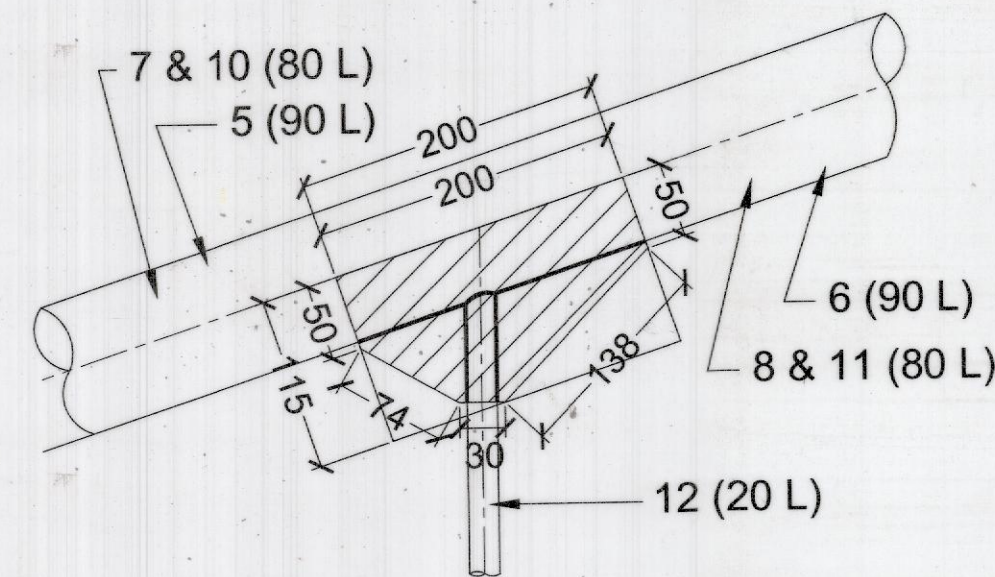
DETAIL OF JOINT 12



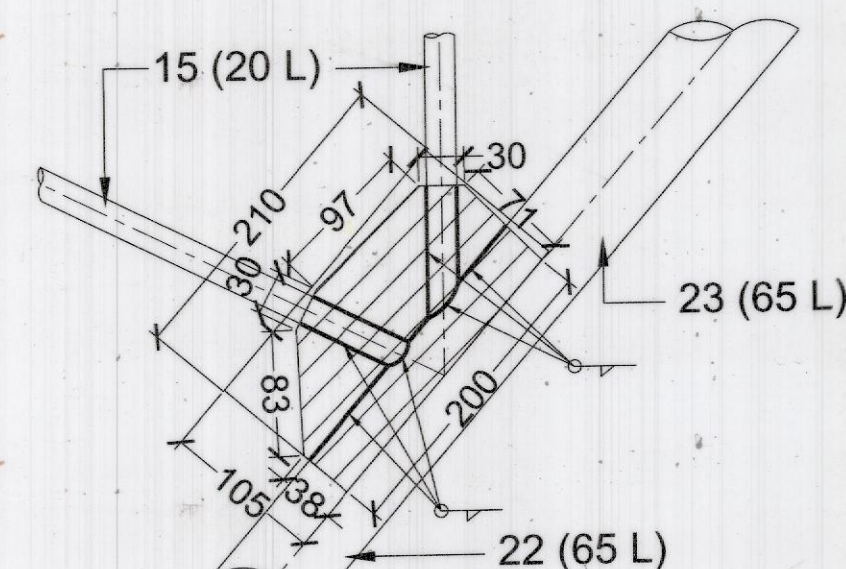
DETAIL OF JOINT 9



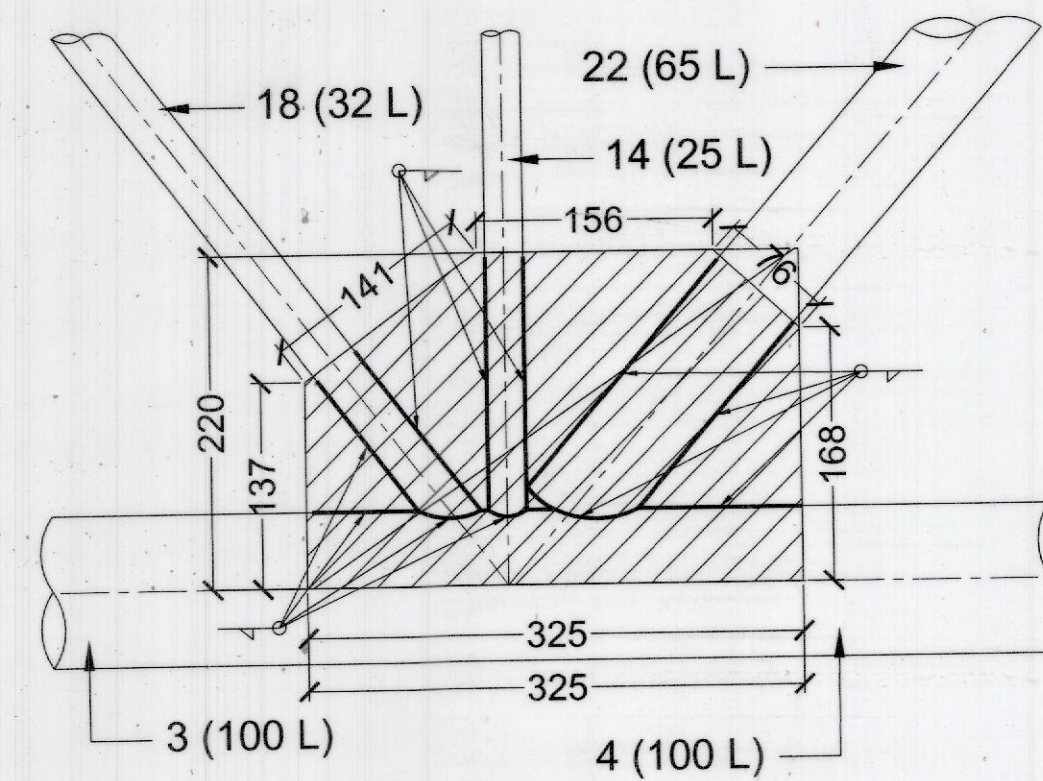
VIEW AT 'B-B' & CROSS SECTION



DETAIL OF JOINT 3, 6 & 11



DETAIL OF JOINT 10



DETAIL OF JOINT 8

DETAILS OF MEMBERS AND JOINTS								
SPAN = 18.0m. SLOPE = 1 IN 3. PURLIN SPACING= 1.36m								
WIND PRESSURE = 150 Kg/M ² SPACING = 6.0m								
L = Light M = Medium H = High								
MEMBER						JOINT		
No.	Name	Nominal Bore	Outside DIA	Thickness	Length	No.	Size of gusset plate	Thickness in mm.
1	TIE	100 L	114.30	3.65	1.29	1	1040x490	10
2	TIE	100 L	114.30	3.65	2.57	2	270x140	10
3	TIE	100 L	114.30	3.65	2.57	3	200x115	10
4	TIE	100 L	114.30	3.65	2.57	4	445x140	10
5	RAFTER	90 L	101.60	3.65	1.36	5	375x170	10
6	RAFTER	90 L	101.60	3.65	1.36	6	200x115	10
7	RAFTER	80 L	88.90	3.25	1.36	7	295x165	10
8	RAFTER	80 L	88.90	3.25	1.36	8	325x220	10
9	RAFTER	80 L	88.90	3.25	1.36	9	190x145	10
10	RAFTER	80 L	88.90	3.25	1.36	10	210x105	10
11	RAFTER	80 L	88.90	3.25	1.36	11	200x115	10
12	WEB	20 L	26.90	2.35	0.43	12	220x145	10
13	WEB	20 L	26.90	2.35	1.29	13	245x215	10
14	WEB	25 L	33.70	2.65	2.14			
15	WEB	20 L	26.90	2.35	1.07			
16	WEB	25 L	33.70	2.65	3.06			
17	WEB	25 L	33.70	2.65	1.55			
18	WEB	32 L	42.40	2.65	2.14			
19	WEB	20 L	26.90	2.35	1.44			
20	WEB	25 L	33.70	2.65	1.55			
21	WEB	32 L	42.40	2.65	2.14			
22	WEB	65 L	76.10	3.25	1.98			
23	WEB	65 L	76.10	3.25	1.98			

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
2. FOR G.A. PLAN REFER N.R.H.Q.E. PLAN No. :- **HQ/08/10-2015**.
3. ALL HOLES ARE 21.5 Ø FOR 20 Ø BOLTS / RIVETS EXCEPT WHERE OTHERWISE STATED.
4. EXACT SIZE OF ALL THE MEMBERS, GUSSET PLATES & RIB PLATES TO BE DETERMINED IN TEMPLATE SHOP.
5. BLACK BOLTS SHOWN THUS 
6. H. D. BOLTS SHOWN THUS 
7. ALL FILLET WELDS ARE 8mm THICK.
8. IF PROPOSED SECTION ARE NOT AVAILABLE HEADQUARTER OFFICE TO BE APPROACHED FOR ALTERNATIVE SECTIONS.
9. MINOR MODIFICATIONS MAY BE DONE AT SITE / WORKSHOP.
10. ALL TUBES SHOULD BE AS PER BIS:4923. ERW PIPES WILL BE USED WITH YIELD STRESSAT 240N/Sq.mm.

WELDING SYMBOLS

	NEAR SIDE	FAR SIDE	BOTH SIDE
FILLET WELDS (SHOP)			
FILLET WELDS (SITE)			
ALL ROUND WELDS			
BUTT WELDS			

WELDING NOTES

1. WELDING SHOULD BE DONE IN ACCORDANCE WITH IS 9595.
2. NECESSARY JIGS AND FIXTURE SHOULD BE USED FOR WELDING VARIOUS MEMBERS TO AVOID DISTORTION.
3. NECESSARY HEAT TREATMENT SHOULD BE GIVEN BEFORE AND AFTER WELDING WHEREVER REQUIRED.
4. THE ELECTRODES SHALL BE CONFORM TO IRS SPECIFICATIONS M-28-1966.
5. WELDING SHOULD BE DONE BY TRAINED WELDER UNDER THE SUPERVISION OF QUALIFIED PERSON ONLY.
6. DESIGN IS BASED ON I.R.S. WELDING BRIDGE CODE.
7. WELDING OF GIRDER SHALL BE DONE BY SAW TO IS:4353. ALL BUTT WELDS ARE TO BE EXAMINED RADIOGRAPHICALLY OR BY ANY EQUALLY EFFECTIVE NON DESTRUCTIVE TEST METHOD.

DY.CE/P&D

AXEN/P&D

NORTHERN RAILWAY

TYPE PLAN MECHANIZED LAUNDRY

TUBULAR TRUSS AND JOINERY DETAILS

SCALE : 1:40, 1:10 & 1:5

H.Q. CASE NO. 104-W/O/PT-III

CALCULATION FILE:

N.R.DIVL. PLAN NO. P-44/2015

N.R.H.Q.E. PLAN NO.	HQ/08/10 /2015
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SHEET NO. 5