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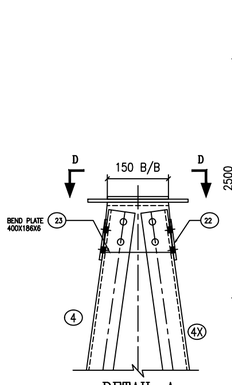
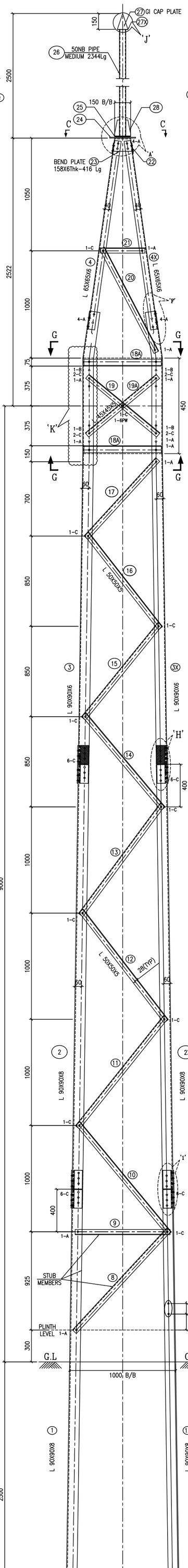
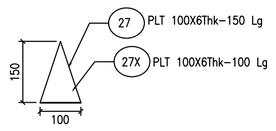


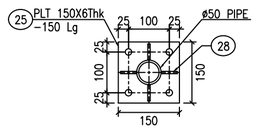
DETAIL–A



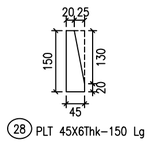
TRANSVERSE FACE

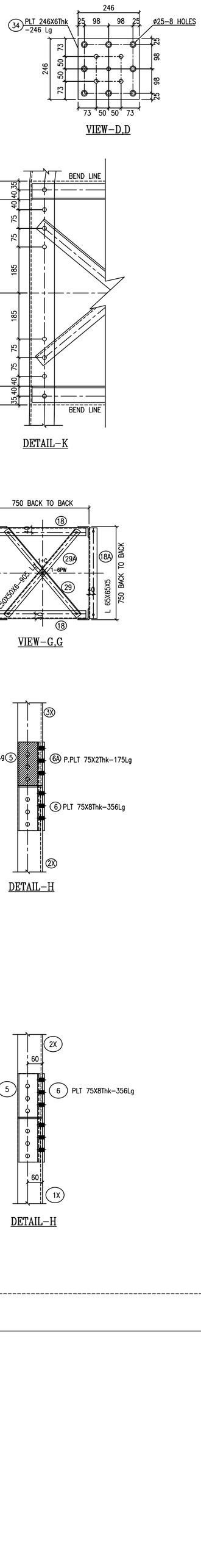


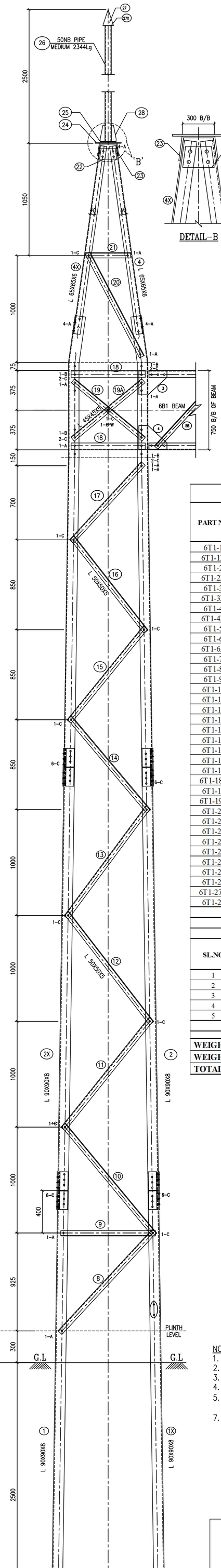
DETAIL AT –J



VIEW–C,C







LONGITUDINAL FACE

BILL OF MATERIAL FOR 66kV S/S TOWER "6T1"

PART NO	SECTION IN MM	WIDTH IN MM	X	LENGTH IN MM	UNIT WEIGHT IN KG	WEIGHT PER PIECE	QTY	TOTAL WEIGHT IN KG	REMARKS
6T1-1	L 90X90X8			4124	10.80	44.54	3	133.62	
6T1-1X	L 90X90X8			4124	10.80	44.54	1	44.54	
6T1-2	L 90X90X8			3995	10.80	43.15	2	86.30	
6T1-2X	L 90X90X8			3995	10.80	43.15	2	86.30	
6T1-3	L 90X90X6			4270	8.20	35.01	2	70.02	
6T1-3X	L 90X90X6			4270	8.20	35.01	2	70.02	
6T1-4	L 65X65X6			1794	5.80	10.41	2	20.82	
6T1-4X	L 65X65X6			1794	5.80	10.41	2	20.82	
6T1-5	L 90X90X6			356	8.20	2.92	8	23.36	
6T1-6	8mm Plate	75	X	356	62.80	1.68	16	26.88	
6T1-6A	2mm Plate	75	X	150	15.70	0.18	8	1.44	
6T1-7	L 50X50X5			1000	3.80	3.80	4	15.20	
6T1-8	L 50X50X5			1312	3.80	4.99	4	19.96	
6T1-9	L 50X50X5			894	3.80	3.40	4	13.60	
6T1-10	L 50X50X5			1349	3.80	5.13	4	20.52	
6T1-11	L 50X50X5			1331	3.80	5.06	4	20.24	
6T1-12	L 50X50X5			1313	3.80	4.99	4	19.96	
6T1-13	L 50X50X5			1295	3.80	4.92	4	19.68	
6T1-14	L 50X50X5			1161	3.80	4.41	4	17.64	
6T1-15	L 50X50X5			1495	3.80	5.68	4	22.72	
6T1-16	L 50X50X5			1129	3.80	4.29	4	17.16	
6T1-17	L 50X50X5			1000	3.80	3.80	4	15.20	
6T1-18	L 65X65X5			700	4.90	3.43	8	27.44	
6T1-18A	L 65X65X5			730	4.90	3.58	8	28.64	
6T1-19	L 45X45X5			867	3.80	3.29	4	13.16	
6T1-19A	L 45X45X5			867	3.80	3.29	4	13.16	
6T1-20	L 50X50X5			1106	3.80	4.20	4	16.80	
6T1-21	L 50X50X5			419	3.80	1.59	4	6.36	
6T1-22	6mm Plate	100	X	163	47.10	0.77	2	1.54	
6T1-23	6mm Plate	186	X	382	47.10	3.35	1	3.35	
6T1-24	8mm Plate	250	X	250	62.80	3.93	1	3.93	
6T1-25	6mm Plate	150	X	150	47.10	1.06	1	1.06	
6T1-26	Dia 60.3 PIPE (M)			2344	5.03	11.79	1	11.79	
6T1-27	3mm Plate	100	X	150	23.55	0.35	1	0.35	
6T1-27X	3mm Plate	100	X	100	23.55	0.24	1	0.24	
6T1-28	8mm Plate	45	X	45	62.80	0.13	4	0.52	
WEIGHT OF STRUCTURE								**914.34**	

LIST OF NUT & BOLTS, WASHERS & STEP BOLTS

SL.NO	DESCRIPTION	LENGTH IN MM	UNIT WT IN KG	QTY	TOTAL WEIGHT IN KGS	REMARKS
1	16.0 DIA BOLT & NUT	35	0.124	111	13.764	
2	16.0 DIA BOLT & NUT	40	0.132	15	1.980	
3	16.0 DIA BOLT & NUT	45	0.140	160	22.400	
4	3.5 MM THK SPRING WASHER FOR 16.0 DIA		0.009	286	2.574	
5	6 MM THK PACK WASHERS FOR 16.0 DIA		0.064	6	0.384	
TOTAL WEIGHT OF NUT & BOLTS					**41.102**	

WEIGHT OF STRUCTURAL STEEL	**914.340**
WEIGHT OF NUT & BOLTS	**41.102**
TOTAL WEIGHT OF STRUCTURE	**955.442**

NOTES:
1. ALL DIMENSIONS ARE IN MM.
2. ALL HOLES ARE 17.5MM DIA. FOR 16MM DIA. BOLTS.
3. ALL STEEL SECTIONS SHALL CONFIRM TO IS: 2062.
4. ALL STEEL SECTIONS, BOLTS, NUTS & PACK WASHERS ARE TO BE HOT DIP GALVANIZED.
5. ALL BOLTS SHALL CONFORM TO IS:12427(2001), WITH MECHANICAL PROPERTIES CLASS 5.6 AND NUTS SHALL CONFORM TO IS: 1367(PART–VI) OF PROPERTIES CLASS–5.
7. DIMENSIONAL AND WEIGHT TOLERANCE ±10%.

STATION STRUCTURE OF TYPE TOWER - 6T1
(FOR 66/11KV SUBSTATIONS ONLY)

KPTCL/P&C/TECH/66KV/6T1				
	AEE	EE	SEE	CEE
DRAWING NO.	DRAWN/CHECKED	SUBMITTED	RECEIVED	APPROVED

Approval Ltr No.: CEE/P&C/SET/EE(TL)/AEE-9/2021-22/10039-49 Dtd:05.10.2021

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