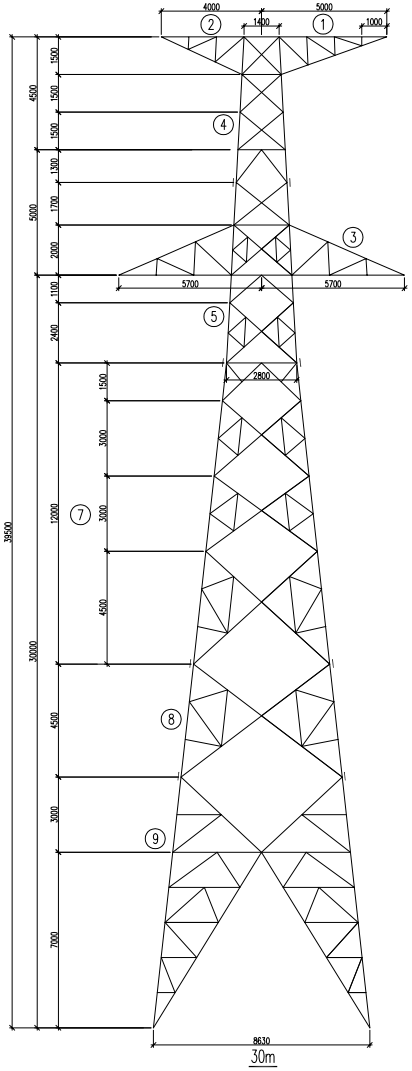
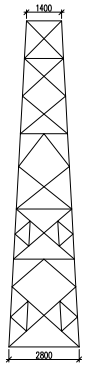
材 料 汇 总 表

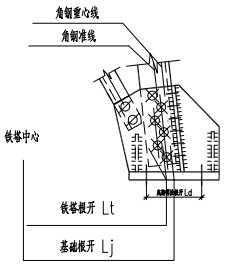
材料	材质	规格	段号 1	2	3	4	5	6	7	8	9	10	11	12	13	呼称高(m) 18.0	21.0	24.0	27.0	30.0
角	Q420	L125X12								412.5	958.7	683.1	820.9					820.9	1095.6	1371.2
		L125X10						541.1	889.6					459.6	575.9	1117.0	1349.2	889.6	889.6	889.6
		L110X10									35.4	35.4							35.4	35.4
		L110X8								28.7			28.7	28.7	28.7	28.7	28.7	28.7	28.7	28.7
	Q345	L110X10					514.8									514.8	514.8	514.8	514.8	514.8
		L110X8			252.0		34.2	30.3	30.3							316.5	316.5	316.5	316.5	316.5
		L100X8			230.6		56.0									286.6	286.6	286.6	286.6	286.6
		L100X7					23.8									23.8	23.8	23.8	23.8	23.8
		L90X7					121.4									121.4	121.4	121.4	121.4	121.4
		L80X7	48.8													48.8	48.8	48.8	48.8	48.8
		L80X6			43.1	47.0	30.4	121.8	121.8							242.3	242.3	242.3	242.3	242.3
		L75X6				191.5	77.4									268.9	268.9	268.9	268.9	268.9
		L70X6	56.6				89.6									146.2	146.2	146.2	146.2	146.2
		L70X5		36.8			75.6	57.2	57.2							169.6	169.6	169.6	169.6	169.6
		L63X5	41.0	32.4		17.4	50.6									141.4	141.4	141.4	141.4	141.4
		小 计	146.4	69.2	525.7	255.9	1073.8	750.4	1098.9	441.2	994.1	718.5	849.6	488.3	604.6	3426.0	3658.2	4019.5	4329.6	4605.2
钢	Q235	L90X7					44.1				334.4				199.6	243.7	44.1	44.1	44.1	378.5
		L80X7											272.6					272.6		
		L80X6							399.2	444.0					351.2	351.2	399.2	399.2	843.2	843.2
		L75X6												340.0			340.0			
		L75X5									369.2		295.2					295.2		369.2
		L70X6				11.7		503.2	503.2			398.6				514.9	514.9	514.9	913.5	514.9
		L63X5				64.0	153.9				133.7	119.6	114.6			217.9	217.9	332.5	337.5	351.6
		L56X5			33.4	108.7					166.2	155.4		89.1	78.6	220.7	231.2	142.1	297.5	308.3
		L56X4		4.5		31.7		25.2	25.2		66.2	72.3	179.0			61.4	61.4	240.4	133.7	127.6
		L50X5	9.2		77.0	67.0					221.5	357.3	173.3			153.2	153.2	326.5	510.5	374.7
		L50X4	4.0		22.6	14.5		16.9	72.4	55.6	223.9	26.4	152.4	292.8	241.3	299.3	406.3	265.9	195.5	393.0
		L45X4	96.9	72.8	95.7	26.3	29.0	19.4	96.4	117.5	305.0	250.1	211.0	217.8	147.3	487.4	634.9	628.1	784.7	839.6
		L40X4					113.0	158.2	182.0		93.4	58.8	38.4	27.4	86.8	358.0	322.4	333.4	353.8	388.4
		L40X3									21.0	19.4		7.0	6.0	6.0	7.0		19.4	21.0
		小 计	110.1	77.3	228.7	323.9	340.0	722.9	1278.4	617.1	1934.5	1457.9	1436.5	974.1	1110.8	2913.7	3332.5	3794.9	4433.4	4910.0
钢	Q420	-8								29.3			29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
		-10									36.6	36.6							36.6	36.6
		-12						109.8	109.8							109.8	109.8	109.8	109.8	109.8
	Q345	-6			3.8	23.8	14.0									41.6	41.6	41.6	41.6	41.6
		-8	24.4	9.8		62.8	73.4	38.3	38.3					18.7	18.7	227.4	227.4	208.7	208.7	208.7
		-10			34.0		130.0				23.4	23.4	23.4			164.0	164.0	187.4	187.4	187.4
		-12												90.7	90.7	90.7	90.7			
		-14									105.5	105.5	105.5					105.5	105.5	105.5
		-16	24.6	21.8												46.4	46.4	46.4	46.4	46.4
		-22			116.6	43.4										160.0	160.0	160.0	160.0	160.0
		-32									130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2	130.2
		小 计	49.0	31.6	154.4	130.0	217.4	148.1	148.1	29.3	295.7	295.7	288.4	268.9	268.9	999.4	999.4	1018.9	1055.5	1055.5
板	Q235	-2								3.0			3.0					3.0	3.0	3.0
		-6	15.9	4.2	11.4	43.0	24.5	9.5	9.5		73.7	52.5	65.2	42.5	59.2	167.7	151.0	173.7	161.0	182.2
		-8			3.6		19.3	19.7	38.7	20.2	50.9	48.1	47.9	43.9	56.0	98.6	105.5	109.5	129.9	132.7
		-10	0.2	0.2	0.4	0.4	4.5	4.5	6.7							10.2	12.4	12.4	12.4	12.4
		-12								2.7	2.7	1.4	2.7	1.4	2.7	2.7	1.4	2.7	4.1	5.4
		-14	0.5	0.3	0.5		2.4									3.7	3.7	3.7	3.7	3.7
		-16						3.6								3.6				
		-18			0.7				6.1							0.7	6.8	6.8	6.8	6.8
		-20								2.3									2.3	2.3
		-22				0.4										0.4	0.4	0.4	0.4	0.4
		小 计	16.6	4.7	16.6	43.8	50.7	37.3	61.0	28.2	127.3	102.0	118.8	87.8	117.9	287.6	281.2	312.2	323.6	348.9
钢管	Q345	ø60/ø32			1.9	1.0										2.9	2.9	2.9	2.9	2.9
		ø40/ø23.5	0.3	0.3												0.6	0.6	0.6	0.6	0.6
		小 计	0.3	0.3	1.9	1.0										3.5	3.5	3.5	3.5	3.5
螺栓	6.8级	M16X40	6.9	3.7	6.9	30.3	8.7	11.0	14.6	3.5	48.5	47.3	35.6	33.3	35.6	103.1	104.4	106.7	121.9	123.1
		M16X50	5.4	3.0	6.4	5.8	6.1	6.6	10.4	3.8	13.4	12.8	12.8	16.0	13.4	46.7	53.1	49.9	53.7	54.3
		M16X60			2.5	0.2										2.7	2.7	2.7	2.7	2.7
		小 计	12.3	6.7	15.8	36.3	14.8	17.6	25.0	7.3	61.9	60.1	48.4	49.3	49.0	152.5	160.2	159.3	178.3	180.1
	6.8级 带双帽	M20X45		4.3	1.1	43.2	54.6	24.8	26.8	2.1	19.3	13.9	19.3	5.4	10.7	138.7	135.4	149.3	146.0	151.4
		M20X55	4.7		11.8	0.6	55.5	14.2	20.7	6.9	18.4	10.4	18.4	26.5	32.3	119.1	119.8	111.7	110.6	118.6
		M20X65					18.6	28.2	31.3	28.8	42.6	42.6	42.6	25.0	27.5	74.3	74.9	92.5	121.3	121.3
		小 计	4.7	4.3	12.9	43.8	128.7	67.2	78.8	37.8	80.3	66.9	80.3	56.9	70.5	332.1	330.1	353.5	377.9	391.3
栓	6.8级 带双帽	M16X45	0.8													0.8	0.8	0.8	0.8	0.8
		M16X55	2.4	2.0												4.4	4.4	4.4	4.4	4.4
		M16X65			1.8	1.8										3.6	3.6	3.6	3.6	3.6
		M20X55	4.6													4.6	4.6	4.6	4.6	4.6
		M20X65	4.3	2.9												7.2	7.2	7.2	7.2	7.2
		M20X75			3.1	5.4										8.5	8.5	8.5	8.5	8.5
		M20X85			9.9											9.9	9.9	9.9	9.9	9.9
		小 计	12.1	4.9	14.8	7.2										39.0	39.0	39.0	39.0	39.0
		螺栓合计	29.1	15.9	43.5	87.3	143.5	84.8	103.8	45.1	142.2	127.0	128.7	106.2	119.5	523.6	529.3	551.8	595.2	610.4
脚钉	6.8级	M16X180				3.6	4.6	4.9	4.9	4.2	7.6	5.3	6.5	3.8	4.9	18.0	16.9	19.6	22.6	24.9
		M20X200					1.9			0.7	0.7	0.7	0.7	0.7	0.7	2.6	2.6	2.6	3.3	3.3
		小 计				3.6	6.5	4.9	4.9	4.9	8.3	6.0	7.2	4.5	5.6	20.6	19.5	22.2	25.9	28.2
垫圈	Q235	-3(ø17.5)				0.3	0.1	0.1	0.1		0.3	0.3	0.3	0.3	0.3	0.8	0.8	0.8	0.8	0.8
		-4(ø17.5)	0.3	0.2	0.3	0.2										1.0	1.0	1.0	1.0	1.0
		-3(ø22)					0.1									0.1	0.1	0.1	0.1	0.1
		小 计	0.3	0.2	0.3	0.5	0.2	0.1	0.1		0.3	0.3	0.3	0.3	0.3	1.9	1.9	1.9	1.9	1.9
底板式 合 计 (kg)			351.8	199.2	971.1	846.0	1832.1	1748.5	2695.2	1165.8	3502.4	2707.4	2829.5	1930.1	2227.6	8176.3	8825.5	9724.9	10768.6	11563.6
插入式 合 计 (kg)			351.8	199.2	971.1	846.0	1832.1	1748.5	2695.2	1165.8	3304.2	2503.7	2624.0	1743.3	2042.8	7991.5	8638.7	9519.4	10564.9	11365.4

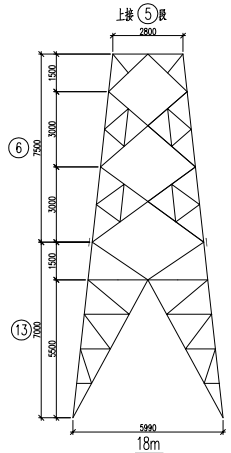
铁塔根开及基础根开表

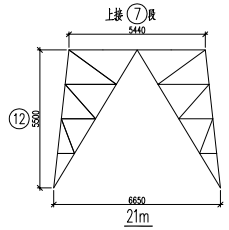
呼高	铁塔根开 Lt	基础根开 Lj	底脚螺栓根开 Ld	底脚板螺栓直径及个数
18.0m	5990	6050	220	4M36(35#)
21.0m	6650	6710		
24.0m	7310	7370		
27.0m	7970	8030		
30.0m	8630	8690		

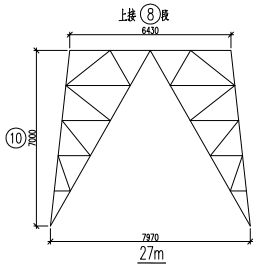


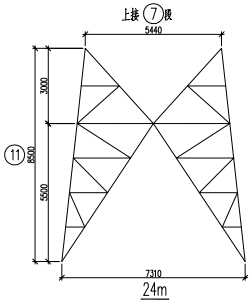


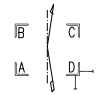












塔身、塔腿脚钉布置图

国家电网公司 STATE GRID CORPORATION OF CHINA			
110~500kV输电线路通用设计	施 工 图	版次	
批 准		2B5-J1 转角塔 单线图及材料汇总表	
审 核			
校 核			
设 计			
CAD制图			
比 例 1:100	图 号 2B5-J1-01		