

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 07 Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332799.696	6243319.910	73° 10' 55"	4.896 (16.063)	2529.9	2619.9	6.012 (19.724)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
							MGA94								
		12	333123.8	6243422.0	14.0	46.0	10.1	3.9	SPIRE	2960	3.9 North	2.36%	Elec Pole with Light	Nov 21	N
		18	333133.5	6243420.4	14.6	48.0	10.2	4.4	SPIRE	2969	0.4 South	2.47%	Elec Pole with Light	Nov 21	N
		20	333130.9	6243445.0	15.5	50.8	10.3	5.2	SPIRE	2973	23.9 North	2.68%	Elec Pole with Light	Nov 21	N
		22	333121.5	6243476.0	14.5	47.7	10.3	4.3	SPIRE	2973	56.3 North	2.41%	Elec Pole with Light	Nov 21	N
		24	333109.1	6243511.4	15.0	49.2	10.2	4.8	SPIRE	2972	93.8 North	2.56%	Elec Pole with Light	Nov 21	N
		36	333138.8	6243401.5	14.3	47.0	10.2	4.1	SPIRE	2968	20.0 South	2.39%	Light Pole	Nov 21	N
70	70	39	333280.5	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3114	28.1 South	2.83%	Sewer Vent	Dec 21	N
		43	333724.5	6243777.0	22.3	73.1	18.2	4.0	SPIRE	3637	170.0 North	1.60%	Sewer Vent	Dec 21	N
128	133	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3713	37.3 South	2.09%	Pine Tree	Dec 21	N
145	151	48	334385.5	6243522.9	36.7	120.3	24.9	11.7	SPIRE	4197	264.5 South	1.94%	Traffic Camera+Mobile phone	Dec 21	N
		49	334046.4	6243811.2	28.4	93.3	22.0	6.4	TREE	3955	109.6 North	1.68%	Pine Tree	Dec 21	N
		50	332899.3	6243353.2	7.7	25.3	7.3	0.4	SPIRE	2725	3.0 North	1.61%	07 Localiser	Nov 21	Y
		53	334107.6	6243829.3	29.1	95.5	22.8	6.3	TREE	4019	109.2 North	1.65%	Gum and Pines	Dec 21	N
		55	334118.4	6243879.0	24.4	80.2	23.1	1.3	SPIRE	4044	153.7 North	1.29%	Sewer Vent	Dec 21	N
		56	332924.1	6243357.6	7.9	25.9	7.6	0.3	LINES	2750	0.1 North	1.45%	Blast Deflector N join	Nov 21	Y
		57	334369.7	6243871.9	34.9	114.4	26.0	8.9	TREE	4283	74.1 North	1.74%	Pine Tree	Dec 21	N
		58	332923.4	6243329.1	8.3	27.1	7.5	0.8	LINES	2741	27.0 South	1.87%	Blast Deflector S join (highest point)	Nov 21	Y
	5	60	332922.3	6243290.9	8.0	26.4	7.3	0.7	LINES	2729	63.2 South	1.87%	Blast Deflector S end	Nov 21	Y
		61	335886.5	6244711.9	53.4	175.2	46.3	7.1	SPIRE	5977	439.4 North	1.41%	St Spyridon West Tower	Dec 21	N
		67	337864.5	6245117.9	92.9	304.8	70.4	22.5	SPIRE	7988	255.7 North	1.62%	Trig Station atop water tower	Nov 21	N
		69	338748.5	6244452.9	78.8	258.5	78.3	0.5	BLDG	8642	636.6 South	1.21%	Building	Dec 21	N
		73	338870.5	6244447.7	90.4	296.5	79.7	10.7	TREE	8757	676.9 South	1.37%	Norfolk Pine Tree	Dec 21	N
		75	338956.5	6244288.9	80.4	263.8	80.1	0.3	BLDG	8794	853.8 South	1.20%	Roof of House	Dec 21	N
146	152	77	334673.3	6243758.6	44.6	146.4	29.1	15.6	ANTEN	4540	122.2 South	2.01%	Mobile Phone Tower	Dec 21	N
		98	332941.5	6243322.3	9.2	30.3	7.6	1.6	SPIRE	2756	38.7 South	2.36%	Light Pole	Nov 21	Y
		99	332897.7	6243369.3	7.9	25.9	7.3	0.6	SPIRE	2728	18.9 North	1.73%	Obstruction Light (Lit 1/1)	Nov 21	Y
		100	332942.1	6243292.1	9.2	30.2	7.6	1.7	SPIRE	2748	67.8 South	2.49%	Light Pole	Nov 21	Y
		101	332908.9	6243332.5	7.9	25.8	7.3	0.6	SPIRE	2728	19.5 South	1.72%	Obstruction Light (Lit 1/1)	Nov 21	Y
	7	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740	95.5 South	2.58%	Light Pole	Nov 21	Y
		109	333138.3	6243378.8	14.4	47.4	10.1	4.3	SPIRE	2961	41.6 South	2.47%	Light Pole	Nov 21	N
	126	113	333125.3	6243297.3	14.3	46.8	9.7	4.6	SPIRE	2925	115.8 South	2.71%	Light Pole	Nov 21	N
43	84	115	333129.2	6243326.6	15.6	51.0	9.8	5.7	SPIRE	2937	88.9 South	3.01%	Light Pole	Nov 21	N
		117	333148.5	6243317.7	15.1	49.6	10.0	5.1	SPIRE	2953	103.0 South	2.73%	Light Pole	Nov 21	N
		119	333155.7	6243299.4	13.9	45.5	10.0	3.9	SPIRE	2955	122.6 South	2.35%	Light Pole	Nov 21	N
58	55	125	333225.5	6243305.9	16.7	54.8	10.9	5.8	SPIRE	3023	136.6 South	2.65%	Light Pole	Dec 21	N
		127	333258.0	6243317.4	16.7	54.8	11.3	5.4	SPIRE	3058	135.0 South	2.44%	Light Pole	Dec 21	N
66	64	137	333273.4	6243340.3	21.6	70.7	11.5	10.0	TREE	3079	117.5 South	3.38%	Gum Tree	Dec 21	N
		139	333262.1	6243351.5	16.5	54.0	11.4	5.0	ANTEN	3072	103.6 South	2.31%	TV Antenna (used to be Chimney at 15.5)	Dec 21	N
		143	333361.5	6243426.2	18.8	61.6	12.8	6.0	BLDG	3188	60.8 South	2.25%	Tile Roof of House	Dec 21	N
		147	333757.7	6243598.6	19.5	63.9	18.0	1.5	SPIRE	3618	10.4 South	1.35%	Light Pole	Dec 21	N
		149	333789.5	6243579.9	20.5	67.3	18.3	2.2	SPIRE	3643	37.5 South	1.42%	Light Pole	Dec 21	N
		151	333817.5	6243590.9	20.5	67.3	18.6	1.9	SPIRE	3673	35.1 South	1.38%	Light Pole	Dec 21	N
		153	333834.5	6243562.9	21.8	71.5	18.7	3.1	SPIRE	3681	66.8 South	1.49%	Light Pole	Dec 21	N
		155	333874.5	6243549.9	22.9	75.1	19.2	3.7	SPIRE	3715	90.8 South	1.54%	Light Pole	Dec 21	N
		157	333916.5	6243539.9	22.8	74.8	19.6	3.2	SPIRE	3753	112.5 South	1.48%	Light Pole	Dec 21	N

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					MGA94		metres	metres		metres	metres	metres				%
					metres	(feet)										
		159	333952.5	6243535.9	23.0	75.5	20.0	3.0	SPIRE	3786	126.8 South	1.46%	Light Pole	Dec 21	N	
		161	333985.5	6243533.9	22.8	74.8	20.4	2.4	SPIRE	3817	138.2 South	1.40%	Light Pole	Dec 21	N	
		163	333984.5	6243555.9	22.6	74.1	20.4	2.2	SPIRE	3822	116.9 South	1.38%	Light Pole	Dec 21	N	
		165	333928.5	6243559.9	22.0	72.2	19.8	2.2	SPIRE	3770	96.9 South	1.39%	Light Pole	Dec 21	N	
147	153	169	336559.5	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6727	592.1 North	1.60%	Antenna on Flats	Dec 21	N	
		173	336548.5	6244825.9	59.9	196.5	54.3	5.6	ANTEN	6644	356.9 North	1.34%	Antenna	Dec 21	N	
		175	336665.5	6244806.9	66.7	218.8	55.6	11.1	SPIRE	6751	304.9 North	1.47%	Sewer Vent	Dec 21	N	
		177	336029.5	6244755.9	60.3	197.8	48.1	12.2	BLDG	6127	440.1 North	1.55%	Air Cond. Cooling Tower	Dec 21	N	
		179	336229.5	6244917.9	54.2	177.8	51.0	3.2	BLDG	6365	537.3 North	1.29%	Roof of Flats	Dec 21	N	
		183	338028.1	6245012.3	89.5	293.6	71.9	17.5	TREE	8114	107.3 North	1.52%	She Oak	Dec 21	N	
153	160	185	338062.9	6244982.8	101.0	331.4	72.2	28.8	TREE	8139	68.9 North	1.72%	Fig Tree	Mar 22	N	
154	161	187	338103.8	6244910.3	96.9	317.8	72.5	24.4	TREE	8157	12.3 South	1.64%	Norfolk Pine Tree	Mar 22	N	
		189	338046.5	6244982.9	91.0	298.6	72.1	18.9	BLDG	8123	73.8 North	1.54%	Chimney	Dec 21	N	
		191	336623.5	6244757.9	62.6	205.4	54.9	7.7	SPIRE	6696	270.2 North	1.39%	Sewer Vent	Dec 21	N	
		193	336708.5	6244898.9	70.1	230.0	56.4	13.7	ANTEN	6818	380.5 North	1.53%	Antenna	Dec 21	N	
		194	333240.3	6243366.1	16.4	54.0	11.2	5.2	SPIRE	3055	83.3 South	2.40%	Flood Light	Dec 21	N	
		198	333254.6	6243386.4	15.3	50.0	11.5	3.8	SPIRE	3075	68.0 South	2.03%	Flood Light	Dec 21	N	
		200	333269.5	6243398.8	16.8	55.2	11.7	5.1	SPIRE	3092	60.4 South	2.29%	Flood Light	Nov 21	N	
		203	332922.2	6243445.3	9.0	29.7	7.9	1.2	SPIRE	2774	84.6 North	1.97%	Light Pole	Nov 21	Y	
107	109	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3489	179.8 North	2.38%	Tree	Dec 21	N	
		205	332927.5	6243430.9	9.1	29.9	7.9	1.2	SPIRE	2774	69.3 North	2.00%	Light Pole	Nov 21	Y	
106	107	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3485	171.0 North	2.27%	Tree	Dec 21	N	
		207	332933.0	6243412.4	9.1	30.0	7.9	1.3	SPIRE	2774	50.0 North	2.02%	Light Pole	Nov 21	Y	
		209	332936.6	6243393.3	9.2	30.2	7.8	1.4	SPIRE	2772	30.6 North	2.09%	Light Pole	Nov 21	Y	
		210	334417.3	6243926.3	36.3	119.2	26.7	9.6	TREE	4344	112.4 North	1.76%	Tree	Dec 21	N	
		211	332939.8	6243376.8	9.1	29.8	7.8	1.3	SPIRE	2771	14.0 North	2.05%	Light Pole	Nov 21	Y	
		214	336625.5	6244725.2	61.1	200.5	54.8	6.3	ANTEN	6689	238.3 North	1.35%	Antenna on Roof of units	Dec 21	N	
		216	336491.3	6244703.6	56.2	184.4	53.2	3.0	SPIRE	6554	256.4 North	1.28%	NE Cnr Air Cond Vent	Dec 21	N	
		218	336459.0	6244665.0	57.2	187.7	52.7	4.5	SPIRE	6512	228.8 North	1.32%	Flag Pole	Dec 21	N	
		220	336232.9	6244871.3	59.7	195.9	50.8	8.9	SPIRE	6355	491.7 North	1.44%	Lightning Conductor on roof	Dec 21	N	
		226	338119.1	6244770.9	85.8	281.5	72.2	13.6	TREE	8132	150.1 South	1.45%	Palm Tree	Dec 21	N	
		228	338157.4	6244826.9	93.9	308.2	72.8	21.1	TREE	8185	107.6 South	1.58%	Tree	Dec 21	N	
		230	338134.9	6244824.4	93.0	305.1	72.5	20.5	TREE	8162	103.6 South	1.57%	Tree	Dec 21	N	
		234	338151.6	6244841.7	92.7	304.0	72.8	19.9	TREE	8183	91.8 South	1.56%	Tree	Dec 21	N	
	156	291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970	72.1 South	1.55%	Antenna on Flats	Dec 21	N	
		295	338143.5	6244836.5	91.4	299.8	72.7	18.7	BLDG	8174	94.4 South	1.54%	House Roof	Dec 21	N	
		297	338895.3	6244276.7	82.0	269.0	79.4	2.6	TREE	8732	847.8 South	1.24%	Gum Tree	Dec 21	N	
		299	338909.1	6244291.7	79.6	261.1	79.6	0.0	BLDG	8749	837.4 South	1.20%	Tile House Roof	Dec 21	N	
82	82	343	333366.4	6243412.7	25.8	84.5	12.8	12.9	TREE	3189	75.1 South	3.47%	Gum Tree	Dec 21	N	
		348	337567.1	6244849.7	74.0	242.8	66.1	7.9	TREE	7626	85.0 North	1.36%	Tree	Dec 21	N	
		349	333145.1	6243493.5	15.7	51.4	10.6	5.1	BLDG	3001	66.2 North	2.54%	G.I. Factory Roof	Nov 21	N	
148	154	352	337614.0	6245387.8	92.5	303.5	68.5	24.0	TREE	7827	586.5 North	1.66%	Pine Tree	Nov 21	N	
		353	338864.8	6244449.4	84.3	276.6	79.6	4.7	TREE	8752	673.7 South	1.28%	Norfolk Pine Tree	Dec 21	N	
		357	333943.8	6243613.3	25.0	82.1	20.2	4.8	TREE	3800	50.1 South	1.61%	Group of Shrubs	Dec 21	N	
149	155	358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904	582.8 North	1.71%	Tree	Nov 21	N	
		359	333842.3	6243603.9	24.5	80.5	19.0	5.6	TREE	3700	29.8 South	1.71%	Pine Tree	Dec 21	N	

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					MGA94										
					metres	(feet)	metres	metres		metres	%				
		366	337172.3	6245178.6	75.5	247.8	62.7	12.8	TREE	7343	514.1 North	1.47%	Pine Tree	Dec 21	N
		368	334441.7	6243988.6	28.0	92.0	27.2	0.8	SPIRE	4385	165.0 North	1.25%	Elec Pole	Dec 21	N
		370	334458.0	6243958.4	28.0	91.8	27.3	0.7	BLDG	4392	131.4 North	1.24%	Apex of house roof	Dec 21	N
		372	334434.1	6243959.5	27.1	88.8	27.0	0.0	SPIRE	4369	139.3 North	1.20%	Elec Pole	Dec 21	N
		373	333951.8	6243615.1	21.5	70.4	20.3	1.2	TERRN	3808	50.8 South	1.30%	Natural surface	Dec 21	N
110	112	380	333687.3	6243524.0	33.7	110.5	16.9	16.8	TREE	3529	61.5 South	3.05%	Sheoak	Dec 21	N
114	117	382	333720.3	6243536.7	32.4	106.3	17.3	15.1	TREE	3564	58.9 South	2.79%	Sheoak	Dec 21	N
124	129	384	333791.3	6243519.5	27.3	89.4	18.1	9.2	TREE	3627	95.9 South	2.11%	Tree	Dec 21	N
		409	333917.8	6243633.6	24.5	80.5	19.9	4.6	TREE	3781	23.2 South	1.59%	Banksia	Dec 21	N
		413	333899.6	6243625.4	21.2	69.4	19.7	1.5	TREE	3761	25.8 South	1.33%	Tree and Banksias (2)	Dec 21	N
		455	333941.1	6243586.7	23.0	75.5	20.0	3.0	LINES	3790	74.8 South	1.45%	Fence	Dec 21	N
		457	333938.1	6243587.1	22.3	73.1	20.0	2.3	LINES	3787	73.6 South	1.39%	Fence	Dec 21	N
		459	333923.2	6243588.8	21.5	70.6	19.9	1.7	LINES	3773	67.7 South	1.34%	Fence	Dec 21	N
119	123	465	333721.4	6243659.1	31.2	102.4	17.8	13.4	TREE	3600	58.0 North	2.57%	Stringy Bark	Dec 21	N
120	124	467	333732.0	6243650.7	26.9	88.2	17.9	9.0	TREE	3608	46.9 North	2.11%	Stringy Bark	Dec 21	N
123	128	469	333748.1	6243644.1	29.5	96.8	18.0	11.5	TREE	3622	35.9 North	2.35%	Stringy Bark	Dec 21	N
2	3	470	332865.6	6243425.9	7.6	25.0	7.1	0.5	BLDG	2714	82.4 North	1.73%	Eastern Lighting Equipment Rood (ELER)	Nov 21	Y
126	131	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3629	40.6 North	2.30%	Stringy Bark	Dec 21	N
122	127	493	333722.7	6243725.8	39.8	130.6	18.0	21.8	TREE	3621	121.5 North	3.38%	Gum Tree Group	Mar 22	N
		521	333827.4	6243769.3	24.3	79.6	19.4	4.9	TREE	3734	132.8 North	1.64%	Pine Tree	Dec 21	N
		523	333841.6	6243763.5	27.1	88.9	19.5	7.6	TREE	3746	123.2 North	1.87%	Gum and Pines	Dec 21	N
133	138	535	333868.8	6243771.2	30.3	99.5	19.9	10.5	TREE	3774	122.7 North	2.11%	Gum and Pines	Dec 21	N
		549	333928.3	6243777.2	28.0	91.9	20.6	7.4	TREE	3833	111.2 North	1.81%	Gum Tree	Dec 21	N
		555	333941.0	6243789.2	25.7	84.3	20.8	4.9	TREE	3848	119.0 North	1.60%	Gum	Dec 21	N
137	143	563	333962.7	6243785.5	34.2	112.1	21.0	13.2	TREE	3868	109.2 North	2.26%	Gum Tree	Dec 21	N
		585	334147.1	6243838.3	28.0	91.9	23.3	4.7	TREE	4060	106.4 North	1.53%	Pines	Dec 21	N
		595	334122.8	6243813.7	29.1	95.4	22.9	6.1	TREE	4029	89.8 North	1.64%	Pines and Gums	Dec 21	N
		615	334296.4	6243858.9	29.5	96.8	25.1	4.4	TREE	4209	82.9 North	1.48%	Pine Trees	Dec 21	N
		617	334322.5	6243865.1	32.4	106.2	25.4	7.0	TREE	4235	81.3 North	1.63%	Pine Trees	Dec 21	N
		623	334351.1	6243877.2	30.9	101.2	25.8	5.1	TREE	4266	84.6 North	1.51%	Pine Trees	Dec 21	N
		669	337457.9	6244933.6	75.0	246.1	65.1	9.9	ANTEN	7546	196.9 North	1.40%	TV Antenna	Dec 21	N
		671	338445.2	6244258.7	75.4	247.4	74.1	1.3	TREE	8296	734.8 South	1.22%	M.B. Fig Tree	Dec 21	N
		680	338203.4	6244757.3	96.0	315.0	73.1	22.9	TREE	8208	187.6 South	1.61%	Gum	Nov 21	N
		725	332927.7	6243371.7	7.9	25.9	7.7	0.2	MOVG	2757	12.5 North	1.37%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
3		731	332924.6	6243250.7	8.4	27.7	7.2	1.2	MOVG	2719	102.4 South	2.44%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
89	90	780	333362.4	6243654.2	26.8	87.9	13.6	13.1	TREE	3255	157.2 North	3.27%	Gum Tree	Dec 21	N
		782	333229.1	6243389.2	15.9	52.1	11.2	4.7	SPIRE	3051	57.9 South	2.29%	Vent Pipe	Dec 21	N
75	75	812	333323.2	6243357.7	23.9	78.3	12.2	11.7	TREE	3132	115.3 South	3.49%	Row of Sheoaks	Dec 21	N
		813	332916.5	6243469.3	8.2	27.1	7.9	0.4	MOVG	2775	109.2 North	1.44%	Road Crown (plus 4.3m)	Dec 21	Y
		821	332944.3	6243355.6	8.4	27.4	7.8	0.6	MOVG	2769	7.7 South	1.58%	Road Crown (plus 4.3m)	Dec 21	Y
77	77	824	333328.8	6243360.5	24.1	79.2	12.2	11.9	TREE	3138	114.2 South	3.50%	Row of Sheoaks	Dec 21	N
78	78	826	333340.4	6243363.8	23.2	76.2	12.4	10.9	TREE	3150	114.4 South	3.25%	Row of Sheoaks	Dec 21	N
	6	827	332942.9	6243253.9	8.3	27.2	7.4	0.9	MOVG	2738	104.7 South	1.94%	Road Crown (plus 4.3m)	Dec 21	Y
80	80	828	333360.1	6243379.3	24.3	79.7	12.7	11.6	TREE	3174	105.3 South	3.30%	Gum Tree	Dec 21	N
83	83	830	333379.3	6243389.9	29.6	97.2	12.9	16.7	TREE	3195	100.7 South	4.11%	Gum Tree	Mar 22	N
86	87	834	333405.5	6243408.6	28.9	94.8	13.3	15.6	TREE	3225	90.4 South	3.78%	Gum Tree	Mar 22	N

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					MGA94		metres	metres		metres	metres	metres				%
					metres	(feet)										
87	88	836	333410.5	6243414.2	29.8	97.8	13.4	16.5	TREE	3232	86.5 South	3.89%	Gum Tree	Mar 22	N	
85	86	838	333397.2	6243410.3	25.7	84.3	13.2	12.5	TREE	3218	86.4 South	3.29%	Gum Tree	Dec 21	N	
19	33	841	332953.7	6243485.9	10.5	34.5	8.4	2.2	MOVG	2815	114.3 North	2.31%	Road (West Edge) (plus 4.6m)	Dec 21	N	
88	89	842	333423.8	6243433.3	31.6	103.8	13.6	18.1	TREE	3250	72.0 South	4.06%	Gum Tree	Mar 22	N	
111	114	844	333652.6	6243686.8	26.5	87.0	17.1	9.4	TREE	3543	104.4 North	2.22%	Gum Tree	Dec 21	N	
116	120	846	333675.4	6243701.2	30.5	100.1	17.4	13.1	TREE	3569	111.6 North	2.58%	Gum Tree	Dec 21	N	
12	22	849	332973.5	6243372.7	11.1	36.3	8.2	2.9	MOVG	2802	0.2 North	2.78%	Road (West Edge) (plus 4.6m)	Dec 21	N	
118	122	854	333701.5	6243703.3	39.0	128.0	17.7	21.3	TREE	3594	106.1 North	3.39%	Gum Tree	Mar 22	N	
6	9	855	332969.7	6243258.4	10.7	35.0	7.8	2.9	MOVG	2765	108.1 South	3.22%	Road (West Edge) (plus 4.6m)	Dec 21	N	
65	63	867	333208.2	6243539.5	17.6	57.8	11.5	6.1	BLDG	3074	92.0 North	2.55%	SW cnr Conc Building	Nov 21	N	
		869	333222.8	6243537.3	17.6	57.8	11.6	6.0	BLDG	3088	85.7 North	2.48%	SE cnr Conc Building	Nov 21	N	
		871	333231.3	6243593.3	17.6	57.7	11.9	5.7	BLDG	3112	136.8 North	2.35%	NE cnr Conc Building	Dec 21	N	
		873	333272.5	6243575.6	17.5	57.4	12.3	5.2	BLDG	3146	107.9 North	2.18%	Blue Conc Sail	Nov 21	N	
		875	333257.3	6243531.6	16.5	54.0	12.0	4.4	BLDG	3119	70.2 North	2.09%	Green Conc Sail	Nov 21	N	
	68	884	333285.2	6243392.8	19.2	62.9	11.8	7.3	TREE	3106	70.8 South	2.71%	Gum Tree	Dec 21	N	
		983	333129.3	6243361.2	14.0	46.0	9.9	4.1	SPIRE	2947	55.8 South	2.44%	Light pole	Nov 21	N	
	69	1162	333258.9	6243506.1	19.1	62.6	11.9	7.2	TREE	3113	45.4 North	2.65%	Gum Tree	Dec 21	N	
		1257	332899.1	6243413.8	7.5	24.6	7.5	0.0	SPIRE	2742	61.1 North	1.21%	Localizer shed	Nov 21	Y	
1	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2627	0.1 South	21.49%	RWY07 Localiser Monitoring point	Mar 22	Y	
125	130	1263	333758.1	6243632.4	31.4	102.9	18.1	13.3	TREE	3628	21.8 North	2.52%	Tree	Dec 21	N	
		1264	333613.3	6243703.1	24.7	81.1	16.7	8.0	TREE	3510	131.4 North	2.10%	Tree	Dec 21	N	
135	140	1270	333934.5	6243601.9	33.5	109.9	20.0	13.5	TREE	3788	58.4 South	2.35%	Tree	Nov 21	N	
		1271	333933.6	6243590.7	27.6	90.6	20.0	7.6	TREE	3784	68.8 South	1.86%	Tree	Dec 21	N	
		1272	333940.8	6243587.3	23.9	78.5	20.0	3.9	SPIRE	3790	74.2 South	1.53%	Fence	Dec 21	N	
5	8	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742	58.6 North	2.77%	Aerial	Nov 21	Y	
98	99	1738	333523.1	6243452.1	30.4	99.7	14.8	15.6	TREE	3351	82.8 South	3.34%	Tree	Dec 21	N	
90	91	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3270	146.9 South	3.26%	Tree	Dec 21	N	
		1776	332901.7	6243411.5	9.4	30.8	7.5	1.9	ANTEN	2744	58.2 North	2.73%	Aerial	Nov 21	Y	
		1777	332873.9	6243422.6	7.4	24.4	7.2	0.2	SPIRE	2721	76.8 North	1.42%	Vent	Nov 21	Y	
		1801	336772.0	6244826.0	72.0	236.2	56.9	15.1	SPIRE	6858	292.4 North	1.56%	Antenna	Dec 21	N	
94	95	1803	333488.1	6243384.2	25.2	82.6	14.1	11.0	TREE	3298	137.7 South	2.83%	Tree	Dec 21	N	
150	157	2312	337870.1	6245077.7	93.4	306.5	70.4	23.1	SPIRE	7982	215.5 North	1.63%	Mobile Phone Tower	Mar 22	N	
136	141	2322	333903.8	6243703.9	35.3	115.9	20.0	15.3	TREE	3788	48.1 North	2.51%	Tree	Dec 21	N	
		2324	334699.5	6243956.4	38.8	127.3	30.0	8.8	TREE	4623	59.6 North	1.64%	Norfolk Pine Tree	Dec 21	N	
84	85	2890	333390.0	6243391.0	29.9	98.0	13.0	16.8	TREE	3206	102.7 South	4.08%	Tree	Mar 22	N	
		2892	334413.0	6243937.3	38.2	125.4	26.7	11.5	TREE	4343	124.2 North	1.87%	Pine Tree	Dec 21	N	
		2893	334348.1	6243937.2	30.8	101.2	25.9	4.9	TREE	4281	142.9 North	1.49%	Tree	Dec 21	N	
		2894	334500.8	6243922.2	39.4	129.2	27.6	11.7	TREE	4422	84.3 North	1.85%	Pine Tree	Dec 21	N	
		2895	334463.5	6243970.6	35.2	115.6	27.4	7.8	TREE	4401	141.5 North	1.64%	Tree	Dec 21	N	
93	94	2941	333470.5	6243441.9	30.7	100.6	14.1	16.5	TREE	3297	77.3 South	3.64%	Tree	Mar 22	N	
53	48	2955	333197.9	6243297.8	18.8	61.5	10.5	8.2	TREE	2995	136.4 South	3.40%	Tree	Nov 21	N	
73	73	3112	333245.7	6243592.8	23.1	75.7	12.1	11.0	TREE	3126	132.1 North	3.37%	Tree	Dec 21	N	
92	93	3114	333406.5	6243648.4	26.4	86.7	14.1	12.3	TREE	3296	138.9 North	3.02%	Norfolk Pine Tree	Dec 21	N	
102	103	3115	333549.1	6243567.8	28.0	91.7	15.5	12.5	TREE	3409	20.5 North	2.78%	Tree	Dec 21	N	
76	76	3185	333282.4	6243513.8	22.9	75.1	12.2	10.7	TREE	3138	45.9 North	3.26%	Tree	Dec 21	N	
		3309	338786.1	6244518.8	86.5	283.8	78.9	7.6	TREE	8697	584.4 South	1.32%	Pine Tree	Dec 21	N	

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					MGA94										
					metres	(feet)	metres	metres		metres	%				
		3314	338805.6	6244531.3	86.0	282.2	79.2	6.8	TREE	8719	578.2 South	1.31%	Pine Tree	Dec 21	N
		3315	332848.7	6243427.3	7.3	24.0	6.9	0.4	MOVG	2698	88.6 North	1.67%	Road surface (plus 3.6m)	Dec 21	Y
46	36	3326	333162.0	6243301.1	20.8	68.2	10.1	10.7	TREE	2961	122.9 South	4.33%	Tree	Mar 22	N
60	58	3332	333240.5	6243343.3	19.6	64.2	11.2	8.4	TREE	3049	105.2 South	3.16%	Tree	Dec 21	N
63	61	3334	333193.8	6243580.9	19.9	65.3	11.4	8.4	TREE	3073	135.8 North	3.07%	Tree	Nov 21	N
64	62	3335	333260.8	6243360.6	20.0	65.6	11.4	8.6	TREE	3073	94.5 South	3.09%	Tree	Nov 21	N
72	72	3339	333259.6	6243541.9	21.6	71.0	12.1	9.6	TREE	3124	79.4 North	3.10%	Tree	Dec 21	N
74	74	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127	90.7 North	2.95%	Tree	Dec 21	N
		3341	333339.6	6243484.8	17.6	57.8	12.8	4.8	SPIRE	3184	1.6 North	2.05%	Power Pole	Dec 21	N
		3342	333352.9	6243463.5	20.7	67.9	12.9	7.8	TREE	3191	22.6 South	2.57%	Tree	Dec 21	N
		3343	333334.3	6243449.6	17.7	58.2	12.6	5.1	SPIRE	3169	30.6 South	2.13%	Power Pole	Nov 21	N
		3344	333341.3	6243431.5	19.2	62.9	12.6	6.5	TREE	3171	49.9 South	2.39%	Palm Tree	Dec 21	N
		3345	333383.8	6243497.2	19.6	64.2	13.3	6.2	TREE	3230	0.7 North	2.22%	Palm Tree	Dec 21	N
		3347	333416.0	6243637.5	21.0	68.9	14.2	6.8	SPIRE	3302	125.6 North	2.20%	Aerial atop block of flats	Dec 21	N
96	97	3348	333456.3	6243617.3	26.0	85.3	14.6	11.4	TREE	3334	94.7 North	2.80%	Tree	Dec 21	N
131	136	3350	333866.4	6243628.3	28.6	93.9	19.3	9.3	TREE	3730	13.4 South	2.04%	Tree	Dec 21	N
130	135	3351	333875.4	6243594.6	29.7	97.5	19.3	10.4	TREE	3729	48.3 South	2.14%	Tree	Dec 21	N
44	16	3668	333116.0	6243415.7	16.8	55.0	10.0	6.8	MOVG	2950	0.1 North	3.25%	Port Botany Rail (plus 5.3m)	Dec 21	N
45	24	3791	333128.7	6243402.4	16.7	54.7	10.1	6.6	MOVG	2959	16.2 South	3.15%	Port Botany Rail (plus 5.3m)	Dec 21	N
		3866	336675.3	6244890.6	68.7	225.3	56.0	12.7	TREE	6784	382.2 North	1.50%	Tree	Dec 21	N
		3868	336605.6	6244869.2	63.6	208.6	55.1	8.5	TREE	6711	381.8 North	1.41%	Tree	Dec 21	N
		3870	336647.1	6244848.3	64.7	212.4	55.5	9.2	TREE	6745	349.9 North	1.42%	Tree	Dec 21	N
		3872	336753.8	6244962.4	67.9	222.8	57.1	10.8	TREE	6880	428.2 North	1.45%	Tree	Dec 21	N
52	47	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986	57.9 South	2.89%	Port Botany Rail (plus 5.3m)	Dec 21	N
57	54	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3021	94.0 South	2.67%	Port Botany Rail (plus 5.3m)	Dec 21	N
		3883	333257.1	6243327.8	16.9	55.4	11.3	5.6	MOVG	3060	124.8 South	2.47%	Port Botany Rail (plus 5.3m)	Dec 21	N
		3885	333300.3	6243315.4	17.0	55.7	11.7	5.2	MOVG	3098	149.2 South	2.30%	Port Botany Rail (plus 5.3m)	Dec 21	N
		3936	336622.3	6245102.3	71.2	233.6	56.1	15.1	BLDG	6795	600.2 North	1.56%	Building	Dec 21	N
		3938	336606.9	6245024.5	65.1	213.7	55.7	9.5	BLDG	6757	530.2 North	1.43%	Building	Dec 21	N
		3939	332838.6	6243286.4	6.5	21.2	6.3	0.1	SPIRE	2647	43.3 South	1.66%	Frangible PVC marker	Nov 21	Y
55	50	3969	333140.5	6243543.1	17.8	58.3	10.7	7.1	TREE	3011	115.0 North	3.01%	Tree	Nov 21	N
42		3973	333059.5	6243532.8	15.2	49.7	9.7	5.4	MOVG	2930	128.6 North	2.95%	Port Botany Rail (plus 5.3m)	Dec 21	N
109	111	3976	333658.1	6243496.7	32.4	106.3	16.5	15.9	TREE	3493	79.2 South	3.02%	Tree	Dec 21	N
		4408	332884.3	6243409.0	7.3	24.1	7.3	0.0	BLDG	2727	60.8 North	1.25%	Comms Hut	Nov 21	Y
48	43	4430	333119.3	6243505.1	18.1	59.4	10.3	7.8	TREE	2979	84.8 North	3.36%	Tree	Nov 21	N
7	10	4468	332950.9	6243399.9	11.5	37.6	8.0	3.4	TREE	2788	32.8 North	3.24%	Shrub	Nov 21	Y
51	46	4469	333118.1	6243521.1	17.5	57.6	10.4	7.2	TREE	2983	100.5 North	3.18%	Tree	Nov 21	N
		4471	333128.0	6243380.3	14.6	47.9	10.0	4.6	SPIRE	2952	37.1 South	2.58%	Light pole	Nov 21	N
		4474	333146.2	6243336.5	13.7	44.8	10.1	3.6	SPIRE	2956	84.4 South	2.27%	Light pole	Nov 21	N
		4475	333243.5	6243412.1	16.9	55.5	11.4	5.5	BLDG	3071	40.1 South	2.42%	Vent on building	Nov 21	N
		4476	333222.1	6243380.0	16.4	53.7	11.1	5.3	TREE	3042	64.7 South	2.45%	Palm Tree	Dec 21	N
		4480	333224.2	6243377.7	15.9	52.3	11.1	4.9	TREE	3043	67.5 South	2.35%	Palm Tree	Nov 21	N
117	121	4481	333708.5	6243596.2	26.9	88.3	17.4	9.5	TREE	3570	1.6 North	2.20%	Norfolk Pine Tree	Dec 21	N
115	119	4482	333685.4	6243666.2	27.9	91.5	17.4	10.5	TREE	3568	75.2 North	2.31%	Tree	Dec 21	N
127	132	4483	333802.0	6243565.8	28.7	94.0	18.4	10.3	TREE	3651	54.6 South	2.20%	Tree	Dec 21	N
		4489	333188.9	6243396.9	16.1	52.7	10.8	5.3	TREE	3015	38.9 South	2.55%	Tree	Nov 21	N

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					MGA94										
					metres	(feet)	metres	metres							
		4490	333229.4	6243607.2	17.0	55.7	11.9	5.0	BLDG	3114	150.7 North	2.22%	Air conditioning unit atop building	Dec 21	N
4	4	4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2720	88.6 South	1.89%	Sign	Nov 21	Y
		4607	332940.9	6243353.1	9.1	29.9	7.7	1.4	SPIRE	2765	9.1 South	2.15%	Light Pole	Nov 21	Y
		4608	332976.0	6243262.2	9.0	29.5	7.8	1.2	SPIRE	2772	106.3 South	1.97%	Light Pole	Nov 21	N
		4609	332959.1	6243262.2	8.5	28.0	7.6	0.9	SPIRE	2756	101.4 South	1.85%	Light Pole	Nov 21	Y
		4610	332956.1	6243316.5	9.3	30.5	7.8	1.5	SPIRE	2769	48.5 South	2.21%	Traffic sign	Nov 21	Y
		4611	332952.6	6243479.0	9.6	31.5	8.3	1.3	SPIRE	2812	108.1 North	1.87%	Light Pole	Nov 21	Y
13	15	4612	332975.9	6243372.2	9.7	31.7	8.2	1.5	SPIRE	2804	1.0 South	1.99%	Light Pole	Nov 21	N
		4613	332955.6	6243372.1	9.1	30.0	8.0	1.2	SPIRE	2784	4.9 North	1.90%	Light Pole	Nov 21	Y
		4615	332955.8	6243350.2	9.1	30.0	7.9	1.2	SPIRE	2778	16.2 South	1.97%	Light Pole	Nov 21	Y
		4616	332955.9	6243339.2	9.1	29.8	7.9	1.2	SPIRE	2775	26.7 South	1.97%	Light Pole	Nov 21	Y
		4617	332956.0	6243328.2	9.1	29.7	7.8	1.2	SPIRE	2772	37.3 South	2.01%	Light Pole	Nov 21	Y
		4618	332956.3	6243317.2	9.0	29.6	7.8	1.2	SPIRE	2769	47.9 South	2.02%	Light Pole	Nov 21	Y
		4619	332956.8	6243306.1	9.0	29.4	7.8	1.2	SPIRE	2766	58.7 South	2.02%	Light Pole	Nov 21	Y
		4620	332957.6	6243294.6	8.8	28.8	7.7	1.0	SPIRE	2764	69.9 South	1.92%	Light Pole	Nov 21	Y
		4621	332958.4	6243284.2	8.6	28.1	7.7	0.8	SPIRE	2762	80.1 South	1.79%	Light Pole	Nov 21	Y
		4622	332975.7	6243284.2	9.0	29.7	7.9	1.1	SPIRE	2778	85.1 South	1.92%	Light Pole	Nov 21	N
		4623	332958.9	6243273.4	8.5	27.9	7.7	0.8	SPIRE	2759	90.6 South	1.80%	Light Pole	Nov 21	Y
		4624	332975.7	6243273.2	9.1	29.7	7.9	1.2	SPIRE	2775	95.7 South	1.97%	Light Pole	Nov 21	N
		4625	332952.9	6243474.0	9.6	31.4	8.3	1.3	SPIRE	2811	103.2 North	1.86%	Pole	Nov 21	Y
		4626	332953.5	6243469.4	9.6	31.5	8.3	1.3	SPIRE	2810	98.6 North	1.89%	Light Pole	Nov 21	Y
		4627	332954.1	6243459.4	9.7	31.8	8.3	1.4	SPIRE	2808	88.8 North	1.95%	Light Pole	Nov 21	Y
15	14	4628	332954.5	6243448.8	9.7	31.8	8.2	1.4	SPIRE	2805	78.6 North	1.98%	Light Pole	Nov 21	Y
	21	4629	332955.0	6243437.0	9.5	31.1	8.2	1.3	SPIRE	2802	67.1 North	1.90%	Light Pole	Nov 21	Y
		4630	332955.3	6243436.3	9.4	30.9	8.2	1.2	SPIRE	2803	66.4 North	1.86%	Sign	Nov 21	Y
		4631	332953.8	6243427.3	9.2	30.2	8.2	1.1	SPIRE	2798	58.2 North	1.79%	Light Pole	Nov 21	Y
		4632	332954.1	6243416.1	9.3	30.5	8.1	1.2	SPIRE	2796	47.5 North	1.87%	Light Pole	Nov 21	Y
21	37	4633	332976.3	6243416.2	9.8	32.1	8.4	1.4	SPIRE	2817	41.1 North	1.91%	Light Pole	Nov 21	N
		4634	332954.1	6243394.1	9.1	29.7	8.0	1.0	SPIRE	2789	26.3 North	1.80%	Light Pole	Nov 21	Y
18	38	4635	332976.2	6243405.1	9.7	31.9	8.3	1.4	SPIRE	2814	30.5 North	1.92%	Light Pole	Nov 21	N
17	11	4636	332976.1	6243394.2	9.7	31.9	8.3	1.4	SPIRE	2810	20.0 North	1.94%	Light Pole	Nov 21	N
		4637	332955.5	6243383.2	9.1	30.0	8.0	1.1	SPIRE	2787	15.5 North	1.87%	Light Pole	Nov 21	Y
16	13	4638	332976.0	6243383.2	9.7	31.8	8.3	1.4	SPIRE	2807	9.5 North	1.97%	Light Pole	Nov 21	N
		4639	332955.3	6243377.3	9.2	30.2	8.0	1.2	SPIRE	2786	9.9 North	1.93%	Sign	Nov 21	Y
		4640	332955.7	6243361.2	9.1	29.9	7.9	1.2	SPIRE	2781	5.6 South	1.92%	Light Pole	Nov 21	Y
11	23	4641	332975.9	6243361.2	9.5	31.0	8.2	1.3	SPIRE	2801	11.5 South	1.90%	Light Pole	Nov 21	N
		4642	332975.9	6243350.3	9.4	30.9	8.1	1.3	SPIRE	2797	21.9 South	1.92%	Light Pole	Nov 21	N
20	30	4643	332994.7	6243350.5	9.7	31.9	8.4	1.4	SPIRE	2815	27.1 South	1.91%	Light Pole	Nov 21	N
		4644	332975.8	6243339.3	9.4	30.8	8.1	1.3	SPIRE	2794	32.4 South	1.94%	Light Pole	Nov 21	N
		4645	332994.8	6243339.5	9.6	31.6	8.3	1.3	SPIRE	2812	37.7 South	1.89%	Light Pole	Nov 21	N
		4646	332975.8	6243328.1	9.3	30.6	8.1	1.3	SPIRE	2791	43.1 South	1.95%	Light Pole	Nov 21	N
		4647	332975.7	6243317.2	9.4	30.7	8.0	1.3	SPIRE	2788	53.5 South	1.99%	Light Pole	Nov 21	N
		4648	332995.2	6243317.6	9.5	31.1	8.3	1.2	SPIRE	2806	58.7 South	1.85%	Light Pole	Nov 21	N
		4649	332975.7	6243306.3	9.1	29.9	8.0	1.1	SPIRE	2784	64.0 South	1.89%	Light Pole	Nov 21	N
		4650	332995.3	6243306.3	9.5	31.0	8.2	1.2	SPIRE	2803	69.6 South	1.88%	Light Pole	Nov 21	N
		4651	332975.7	6243295.2	9.1	29.9	7.9	1.2	SPIRE	2781	74.6 South	1.92%	Light Pole	Nov 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres					
	26	4652	332995.5	6243295.5	9.5	31.0	8.2	1.3	SPIRE	2800	80.0 South	1.91%	Light Pole	Nov 21	N
10	17	4653	332995.6	6243284.5	9.5	31.0	8.1	1.3	SPIRE	2797	90.5 South	1.94%	Light Pole	Nov 21	N
8	18	4654	332996.0	6243273.5	9.4	30.9	8.1	1.3	SPIRE	2794	101.2 South	1.96%	Light Pole	Nov 21	N
		4655	332992.9	6243485.0	10.6	34.7	8.8	1.8	SPIRE	2853	102.1 North	1.96%	Sign	Nov 21	Y
		4656	332993.5	6243473.1	10.4	34.3	8.8	1.7	SPIRE	2850	90.6 North	1.93%	Sign	Nov 21	Y
	12	4657	332986.9	6243468.0	10.5	34.4	8.7	1.8	SPIRE	2842	87.6 North	2.01%	Sign	Nov 21	N
28	39	4658	332975.1	6243458.4	10.1	33.3	8.5	1.6	SPIRE	2828	81.8 North	1.99%	Sign	Nov 21	N
		4660	332975.0	6243457.3	10.0	32.7	8.5	1.5	SPIRE	2827	80.8 North	1.91%	Light Pole	Nov 21	N
		4661	332975.5	6243448.3	10.0	32.8	8.5	1.5	SPIRE	2825	72.0 North	1.95%	Light Pole	Nov 21	N
25	29	4662	332976.0	6243438.4	10.0	32.8	8.4	1.6	SPIRE	2823	62.4 North	1.97%	Light Pole	Nov 21	N
34	118	4664	332991.8	6243438.7	10.3	33.7	8.6	1.7	SPIRE	2838	58.2 North	1.96%	Light Pole	Nov 21	N
23	35	4666	332976.3	6243427.2	9.8	32.1	8.4	1.4	SPIRE	2820	51.6 North	1.89%	Light Pole	Nov 21	N
32	52	4668	332991.9	6243427.5	10.3	33.7	8.6	1.7	SPIRE	2835	47.3 North	1.97%	Light Pole	Nov 21	N
31	53	4670	332992.0	6243416.6	10.2	33.4	8.6	1.6	SPIRE	2832	36.9 North	1.97%	Light Pole	Nov 21	N
		4672	332993.7	6243383.5	9.9	32.5	8.5	1.5	SPIRE	2824	4.7 North	1.91%	Light Pole	Nov 21	N
24	34	4674	332994.1	6243370.8	9.8	32.2	8.4	1.4	SPIRE	2821	7.5 South	1.89%	Light Pole	Nov 21	N
22	28	4676	332994.3	6243361.4	9.8	32.1	8.4	1.4	SPIRE	2818	16.6 South	1.90%	Light Pole	Nov 21	N
		4678	332994.9	6243328.6	9.6	31.4	8.3	1.3	SPIRE	2809	48.2 South	1.87%	Light Pole	Nov 21	N
36	19	4679	333045.0	6243370.3	13.5	44.3	9.0	4.5	TREE	2869	22.7 South	3.00%	Tree	Nov 21	Y
	113	4681	333055.8	6243510.8	11.9	39.1	9.6	2.3	BLDG	2920	108.6 North	1.96%	Railway Bridge	Nov 21	N
		4684	332992.8	6243405.5	10.1	33.2	8.5	1.6	SPIRE	2830	26.1 North	1.96%	Light Pole	Nov 21	N
27	32	4686	332993.0	6243394.5	10.0	32.9	8.5	1.5	SPIRE	2827	15.5 North	1.95%	Light Pole	Nov 21	N
33	57	4751	333011.2	6243372.2	11.8	38.8	8.6	3.2	TREE	2838	11.2 South	2.67%	Tree	Nov 21	Y
		4753	333112.2	6243466.6	15.2	49.9	10.1	5.1	SPIRE	2961	50.0 North	2.69%	Light Pole	Nov 21	N
		4755	333185.5	6243367.0	16.3	53.4	10.6	5.7	TREE	3003	66.5 South	2.68%	Tree	Nov 21	N
61	59	4762	333194.9	6243570.2	19.4	63.5	11.4	7.9	TREE	3071	125.2 North	2.96%	Tree	Nov 21	N
62	60	4763	333199.1	6243560.4	19.5	63.9	11.4	8.0	TREE	3072	114.7 North	2.98%	Tree	Nov 21	N
		4829	334280.9	6243484.6	31.4	103.1	23.6	7.8	TREE	4085	270.9 South	1.73%	Tree	Dec 21	N
		4830	337129.8	6245229.9	76.9	252.3	62.4	14.5	BLDG	7317	575.4 North	1.51%	Vent atop building	Dec 21	N
151	158	4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052	86.4 North	1.67%	Norfolk Pine Tree	Mar 22	N
		5282	336591.6	6245077.2	69.4	227.7	55.7	13.7	BLDG	6758	585.0 North	1.53%	Building	Dec 21	N
		5283	336552.9	6245059.1	67.1	220.1	55.2	11.9	BLDG	6716	578.9 North	1.49%	Building	Dec 21	N
		5284	336543.9	6245035.2	61.1	200.4	55.0	6.1	BLDG	6700	558.6 North	1.35%	Building	Dec 21	N
		5285	336557.8	6245011.0	61.7	202.3	55.1	6.6	BLDG	6707	531.4 North	1.36%	Building	Dec 21	N
		5286	336579.7	6244989.4	61.6	202.1	55.2	6.4	BLDG	6721	504.4 North	1.36%	Building	Dec 21	N
		5287	336575.5	6244859.0	58.2	191.0	54.7	3.5	BLDG	6680	380.8 North	1.29%	Building	Dec 21	N
		5288	336498.4	6244836.0	55.8	183.2	53.8	2.1	BLDG	6599	381.1 North	1.25%	Building	Dec 21	N
		5349	336673.4	6244955.8	65.0	213.2	56.2	8.8	TREE	6801	445.1 North	1.41%	Tree	Dec 21	N
		5350	336688.0	6244932.8	67.5	221.4	56.3	11.2	TREE	6809	418.9 North	1.47%	Tree	Dec 21	N
		5351	336680.8	6244926.9	67.7	222.2	56.2	11.5	TREE	6800	415.3 North	1.48%	Tree	Dec 21	N
		5352	336677.4	6244917.9	66.2	217.1	56.1	10.1	TREE	6794	407.6 North	1.44%	Tree	Dec 21	N
		5353	336624.1	6244847.7	59.0	193.6	55.2	3.7	TREE	6723	356.0 North	1.29%	Tree	Dec 21	N
		5354	336528.4	6244804.4	60.0	196.9	54.0	6.0	TREE	6619	342.1 North	1.35%	Tree	Dec 21	N
		5355	336618.9	6244743.6	62.3	204.4	54.8	7.5	TREE	6688	257.8 North	1.38%	Tree	Dec 21	N
68	66	5442	333283.2	6243341.5	24.3	79.8	11.6	12.7	TREE	3089	119.2 South	3.90%	Tree	Mar 22	N
71	71	5443	333311.1	6243353.1	24.6	80.6	12.0	12.6	TREE	3119	116.2 South	3.72%	Tree	Mar 22	N

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					MGA94										
					metres	(feet)	metres	metres							
35	31	5448	332981.9	6243498.5	11.0	36.1	8.7	2.3	SPIRE	2846	118.3 North	2.21%	Traffic lights	Nov 21	N
50	45	5452	333147.4	6243423.1	16.1	52.9	10.4	5.8	TREE	2983	1.8 South	2.79%	Tree	Feb 22	N
49	44	5453	333149.0	6243413.6	16.4	53.8	10.3	6.0	TREE	2981	11.3 South	2.87%	Tree	Feb 22	N
		5454	333131.8	6243465.4	16.0	52.4	10.3	5.6	TREE	2980	43.2 North	2.76%	Tree	Nov 21	N
		5455	333153.1	6243407.6	15.5	51.0	10.4	5.2	TREE	2984	18.3 South	2.62%	Tree	Nov 21	N
		5456	333163.6	6243398.4	16.0	52.5	10.5	5.5	TREE	2991	30.2 South	2.69%	Tree	Nov 21	N
54	49	5457	333187.8	6243380.6	17.7	58.1	10.7	7.0	TREE	3009	54.1 South	3.00%	Tree	Nov 21	N
		5459	333317.1	6243441.0	18.5	60.8	12.4	6.2	TREE	3150	33.8 South	2.36%	Tree	Dec 21	N
113	116	5460	333688.2	6243612.2	25.6	84.0	17.2	8.4	TREE	3555	22.7 North	2.09%	Pine Tree	Dec 21	N
9	20	5497	332999.0	6243263.5	9.9	32.5	8.1	1.8	TREE	2794	111.7 South	2.23%	Tree	Nov 21	N
26	27	5499	332994.5	6243386.6	13.1	43.1	8.5	4.6	TREE	2826	7.5 North	3.46%	Tree	Nov 21	N
14	25	5845	333001.3	6243293.7	10.2	33.5	8.2	2.0	TREE	2805	83.5 South	2.27%	Tree	Nov 21	Y
		5896	332996.4	6243462.3	10.5	34.3	8.8	1.7	SPIRE	2849	79.4 North	1.94%	Traffic lights	Nov 21	Y
40	41	5897	333058.0	6243455.4	13.3	43.8	9.4	3.9	TREE	2906	54.9 North	2.56%	Tree	Nov 21	Y
41	42	5898	333081.0	6243387.3	13.8	45.2	9.5	4.3	TREE	2909	16.9 South	2.69%	Tree	Nov 21	Y
		5899	333102.6	6243375.4	12.7	41.7	9.7	3.0	TREE	2926	34.6 South	2.19%	Tree	Nov 21	Y
		5904	333265.5	6243582.7	19.6	64.3	12.3	7.3	TREE	3142	116.8 North	2.60%	Tree	Dec 21	N
		5905	333411.6	6243492.8	19.5	64.1	13.6	5.9	TREE	3256	11.5 South	2.13%	Gum Tree	Dec 21	N
108	110	5906	333653.3	6243511.3	34.0	111.4	16.5	17.5	TREE	3492	63.8 South	3.20%	Gum Tree	Mar 22	N
121	125	5907	333754.5	6243589.4	26.6	87.3	17.9	8.7	TREE	3612	18.3 South	2.08%	Gum Tree	Dec 21	N
141	147	5908	334016.0	6243740.8	32.8	107.7	21.4	11.4	TREE	3906	50.9 North	2.09%	Gum Tree	Dec 21	N
		5943	336111.0	6244767.0	63.0	206.7	49.1	13.9	SPIRE	6208	427.1 North	1.59%	Tower Crane		N
30		5956	333034.0	6243270.9	11.6	37.9	8.5	3.0	TREE	2830	114.7 South	2.64%	Shrub	Nov 21	N
37		5957	333059.9	6243333.6	12.2	39.9	9.0	3.1	TREE	2873	62.2 South	2.43%	Shrub	Nov 21	Y
29		5958	332995.1	6243397.1	13.1	43.0	8.5	4.6	TREE	2829	17.3 North	3.39%	Shrub	Nov 21	Y
39		5959	333105.9	6243290.1	13.0	42.8	9.4	3.6	TREE	2904	117.2 South	2.47%	Shrub	Nov 21	N
		5960	333110.0	6243436.7	13.7	44.9	10.0	3.7	TREE	2951	22.0 North	2.32%	Shrub	Nov 21	N
		5961	333147.8	6243374.9	13.6	44.7	10.2	3.4	SPIRE	2969	48.1 South	2.18%	Power pole	Nov 21	N
		5962	333119.4	6243541.5	14.1	46.2	10.5	3.6	BLDG	2990	119.6 North	2.18%	Building	Nov 21	N
		5963	333123.6	6243517.2	13.6	44.8	10.4	3.2	SPIRE	2987	95.1 North	2.08%	Light Pole	Nov 21	N
38		5984	333057.6	6243366.6	14.1	46.3	9.1	5.0	TREE	2880	29.9 South	3.11%	Tree	Feb 22	Y
	1	8867	332807.7	6243293.6	6.1	20.1	6.0	0.1	SPIRE	2620	27.5 South	449.76%	Gable Marker	Nov 21	Y
67	65	9429	333277.5	6243351.2	22.9	75.1	11.6	11.3	TREE	3086	108.3 South	3.62%	Tree	Dec 21	N
69	67	9430	333286.8	6243348.3	23.7	77.8	11.7	12.0	TREE	3094	113.8 South	3.73%	Tree	Mar 22	N
81	81	9431	333373.4	6243387.1	29.6	97.1	12.8	16.8	TREE	3189	101.7 South	4.15%	Tree	Mar 22	N
		9433	333144.5	6243466.0	12.6	41.3	10.5	2.1	BLDG	2992	40.1 North	1.77%	Building	Nov 21	N
		9498	334585.9	6243771.8	36.4	119.5	28.1	8.3	TREE	4461	84.2 South	1.65%	Norfolk Pine	Dec 21	N
132	137	9499	333867.9	6243747.4	29.5	96.9	19.8	9.8	TREE	3766	100.1 North	2.05%	Gum	Dec 21	N
134	139	9500	333910.2	6243639.0	30.0	98.5	19.9	10.2	TREE	3775	15.9 South	2.08%	TREE	Dec 21	N
152	159	9502	338039.4	6245004.0	99.2	325.4	72.0	27.1	TREE	8123	96.0 North	1.69%	Gum Tree	Mar 22	N
112	115	9504	333701.9	6243528.1	33.3	109.2	17.1	16.2	TREE	3544	61.8 South	2.95%	TREE	Dec 21	N
139	145	9506	334026.7	6243625.9	30.9	101.3	21.2	9.7	TREE	3883	62.1 South	1.97%	GUM	Dec 21	N
91	92	9510	333456.8	6243448.8	29.8	97.9	14.0	15.8	TREE	3286	66.8 South	3.58%	TREE	Mar 22	N
99	100	9511	333470.9	6243639.8	27.9	91.6	14.8	13.1	TREE	3355	112.0 North	2.98%	TREE	Dec 21	N
105	106	9512	333526.5	6243723.6	29.6	97.2	15.8	13.9	TREE	3432	176.1 North	2.91%	TREE	Dec 21	N
100	101	9513	333539.2	6243462.5	29.6	97.1	15.0	14.6	TREE	3369	77.4 South	3.15%	Gum Tree	Dec 21	N

2021 RWY 07 Type A
All Obstacles Penetrating the 1.2% Type A Surface

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					MGA94		metres	metres		metres	metres	metres				metres	%
					metres	(feet)											
		9524	333541.5	6243585.5	22.3	73.0	15.5	6.8	TREE	3407	39.6 North	2.06%	TREE	Dec 21	N		
101	102	9525	333545.7	6243577.3	25.7	84.5	15.5	10.3	TREE	3409	30.6 North	2.50%	TREE	Dec 21	N		
103	104	9526	333554.0	6243559.5	23.6	77.6	15.5	8.1	TREE	3411	11.1 North	2.23%	TREE	Dec 21	N		
97	98	9527	333507.2	6243454.1	30.4	99.7	14.6	15.8	TREE	3336	76.2 South	3.40%	Gum Tree	Dec 21	N		
104	105	9528	333599.5	6243479.1	29.8	97.6	15.8	14.0	TREE	3432	79.0 South	2.93%	Gum Tree	Dec 21	N		
129	134	9531	333869.8	6243563.1	27.3	89.7	19.1	8.2	TREE	3715	76.8 South	1.95%	TREE	Dec 21	N		
		9546	333301.3	6243617.8	20.5	67.4	12.8	7.7	SPIRE	3186	140.1 North	2.57%	SEWERAGE VENT	Dec 21	N		
79	79	9547	333269.9	6243601.5	20.8	68.3	12.4	8.4	TREE	3152	133.5 North	2.79%	Gum Tree	Dec 21	N		
95	96	9549	333421.5	6243621.0	24.3	79.6	14.2	10.1	TREE	3302	108.3 North	2.68%	TREE	Dec 21	N		
47	40	9566	333148.3	6243352.1	16.8	55.0	10.1	6.6	TREE	2963	70.0 South	3.14%	TREE	Nov 21	N		
59	56	9570	333231.4	6243319.3	19.4	63.5	11.0	8.4	TREE	3033	125.5 South	3.23%	TREE	Dec 21	N		
56	51	9571	333212.3	6243305.3	18.8	61.6	10.7	8.1	TREE	3011	133.3 South	3.27%	TREE	Nov 21	N		
144	150	9576	334190.8	6243973.6	33.8	111.0	24.3	9.6	TREE	4141	223.2 North	1.83%	Norfolk Pine	Dec 21	N		
		9579	334308.1	6243995.3	31.0	101.8	25.7	5.4	TREE	4259	210.0 North	1.53%	Gum Tree	Dec 21	N		
		9584	334339.1	6243874.5	30.2	99.0	25.6	4.6	TREE	4254	85.5 North	1.48%	TREE	Dec 21	N		
		9585	334240.9	6243846.9	32.1	105.3	24.4	7.7	TREE	4152	87.5 North	1.70%	Gum	Dec 21	N		
143	149	9586	334032.5	6243724.7	32.1	105.2	21.6	10.5	TREE	3917	30.8 North	2.01%	TREE	Dec 21	N		
140	146	9587	334041.3	6243586.0	36.4	119.5	21.2	15.2	TREE	3885	104.5 South	2.40%	Gum	Dec 21	N		
138	144	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3874	171.0 South	2.09%	TREE	Dec 21	N		
142	148	9589	334092.5	6243519.9	34.0	111.6	21.6	12.5	TREE	3915	182.6 South	2.16%	TREE	Dec 21	N		
		9590	334320.9	6243563.2	30.1	98.9	24.3	5.8	TREE	4146	207.3 South	1.58%	TREE	Dec 21	N		

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 07 Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332799.696	6243319.910	73° 10' 55"	4.896 (16.063)	2529.9	2619.9	6.012 (19.724)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)	metres								
								MGA94							
1	2	1258	332806.3	6243321.8	7.5	24.6	6.1	1.4	SPIRE	2627	3.9 North	21.49%	RWY07 Localiser Monitoring point	Mar 22	Y
2	3	470	332865.6	6243425.9	7.6	25.0	7.1	0.5	BLDG	2714	0.4 South	1.73%	Eastern Lighting Equipment Road (ELER)	Nov 21	Y
3		731	332924.6	6243250.7	8.4	27.7	7.2	1.2	MOVG	2719	23.9 North	2.44%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
4	4	4606	332920.9	6243264.0	7.9	25.9	7.2	0.7	SPIRE	2720	56.3 North	1.89%	Sign	Nov 21	Y
5	8	1725	332899.8	6243411.4	9.4	30.8	7.5	1.9	ANTEN	2742	93.8 North	2.77%	Aerial	Nov 21	Y
6	9	855	332969.7	6243258.4	10.7	35.0	7.8	2.9	MOVG	2765	20.0 South	3.22%	Road (West Edge) (plus 4.6m)	Dec 21	N
7	10	4468	332950.9	6243399.9	11.5	37.6	8.0	3.4	TREE	2788	28.1 South	3.24%	Shrub	Nov 21	Y
8	18	4654	332996.0	6243273.5	9.4	30.9	8.1	1.3	SPIRE	2794	170.0 North	1.96%	Light Pole	Nov 21	N
9	20	5497	332999.0	6243263.5	9.9	32.5	8.1	1.8	TREE	2794	37.3 South	2.23%	Tree	Nov 21	N
10	17	4653	332995.6	6243284.5	9.5	31.0	8.1	1.3	SPIRE	2797	264.5 South	1.94%	Light Pole	Nov 21	N
11	23	4641	332975.9	6243361.2	9.5	31.0	8.2	1.3	SPIRE	2801	109.6 North	1.90%	Light Pole	Nov 21	N
12	22	849	332973.5	6243372.7	11.1	36.3	8.2	2.9	MOVG	2802	3.0 North	2.78%	Road (West Edge) (plus 4.6m)	Dec 21	N
13	15	4612	332975.9	6243372.2	9.7	31.7	8.2	1.5	SPIRE	2804	109.2 North	1.99%	Light Pole	Nov 21	N
14	25	5845	333001.3	6243293.7	10.2	33.5	8.2	2.0	TREE	2805	153.7 North	2.27%	Tree	Nov 21	Y
15	14	4628	332954.5	6243448.8	9.7	31.8	8.2	1.4	SPIRE	2805	0.1 North	1.98%	Light Pole	Nov 21	Y
16	13	4638	332976.0	6243383.2	9.7	31.8	8.3	1.4	SPIRE	2807	74.1 North	1.97%	Light Pole	Nov 21	N
17	11	4636	332976.1	6243394.2	9.7	31.9	8.3	1.4	SPIRE	2810	27.0 South	1.94%	Light Pole	Nov 21	N
18	38	4635	332976.2	6243405.1	9.7	31.9	8.3	1.4	SPIRE	2814	63.2 South	1.92%	Light Pole	Nov 21	N
19	33	841	332953.7	6243485.9	10.5	34.5	8.4	2.2	MOVG	2815	439.4 North	2.31%	Road (West Edge) (plus 4.6m)	Dec 21	N
20	30	4643	332994.7	6243350.5	9.7	31.9	8.4	1.4	SPIRE	2815	255.7 North	1.91%	Light Pole	Nov 21	N
21	37	4633	332976.3	6243416.2	9.8	32.1	8.4	1.4	SPIRE	2817	636.6 South	1.91%	Light Pole	Nov 21	N
22	28	4676	332994.3	6243361.4	9.8	32.1	8.4	1.4	SPIRE	2818	676.9 South	1.90%	Light Pole	Nov 21	N
23	35	4666	332976.3	6243427.2	9.8	32.1	8.4	1.4	SPIRE	2820	853.8 South	1.89%	Light Pole	Nov 21	N
24	34	4674	332994.1	6243370.8	9.8	32.2	8.4	1.4	SPIRE	2821	122.2 South	1.89%	Light Pole	Nov 21	N
25	29	4662	332976.0	6243438.4	10.0	32.8	8.4	1.6	SPIRE	2823	38.7 South	1.97%	Light Pole	Nov 21	N
26	27	5499	332994.5	6243386.6	13.1	43.1	8.5	4.6	TREE	2826	18.9 North	3.46%	Tree	Nov 21	N
27	32	4686	332993.0	6243394.5	10.0	32.9	8.5	1.5	SPIRE	2827	67.8 South	1.95%	Light Pole	Nov 21	N
28	39	4658	332975.1	6243458.4	10.1	33.3	8.5	1.6	SPIRE	2828	19.5 South	1.99%	Sign	Nov 21	N
29		5958	332995.1	6243397.1	13.1	43.0	8.5	4.6	TREE	2829	95.5 South	3.39%	Shrub	Nov 21	Y
30		5956	333034.0	6243270.9	11.6	37.9	8.5	3.0	TREE	2830	41.6 South	2.64%	Shrub	Nov 21	N
31	53	4670	332992.0	6243416.6	10.2	33.4	8.6	1.6	SPIRE	2832	115.8 South	1.97%	Light Pole	Nov 21	N
32	52	4668	332991.9	6243427.5	10.3	33.7	8.6	1.7	SPIRE	2835	88.9 South	1.97%	Light Pole	Nov 21	N
33	57	4751	333011.2	6243372.2	11.8	38.8	8.6	3.2	TREE	2838	103.0 South	2.67%	Tree	Nov 21	Y
34	118	4664	332991.8	6243438.7	10.3	33.7	8.6	1.7	SPIRE	2838	122.6 South	1.96%	Light Pole	Nov 21	N
35	31	5448	332981.9	6243498.5	11.0	36.1	8.7	2.3	SPIRE	2846	136.6 South	2.21%	Traffic lights	Nov 21	N
36	19	4679	333045.0	6243370.3	13.5	44.3	9.0	4.5	TREE	2869	135.0 South	3.00%	Tree	Nov 21	Y
37		5957	333059.9	6243333.6	12.2	39.9	9.0	3.1	TREE	2873	117.5 South	2.43%	Shrub	Nov 21	Y
38		5984	333057.6	6243366.6	14.1	46.3	9.1	5.0	TREE	2880	103.6 South	3.11%	Tree	Feb 22	Y
39		5959	333105.9	6243290.1	13.0	42.8	9.4	3.6	TREE	2904	60.8 South	2.47%	Shrub	Nov 21	N
40	41	5897	333058.0	6243455.4	13.3	43.8	9.4	3.9	TREE	2906	10.4 South	2.56%	Tree	Nov 21	Y
41	42	5898	333081.0	6243387.3	13.8	45.2	9.5	4.3	TREE	2909	37.5 South	2.69%	Tree	Nov 21	Y
42		3973	333059.5	6243532.8	15.2	49.7	9.7	5.4	MOVG	2930	35.1 South	2.95%	Port Botany Rail (plus 5.3m)	Dec 21	N
43	84	115	333129.2	6243326.6	15.6	51.0	9.8	5.7	SPIRE	2937	66.8 South	3.01%	Light Pole	Nov 21	N
44	16	3668	333116.0	6243415.7	16.8	55.0	10.0	6.8	MOVG	2950	90.8 South	3.25%	Port Botany Rail (plus 5.3m)	Dec 21	N
45	24	3791	333128.7	6243402.4	16.7	54.7	10.1	6.6	MOVG	2959	112.5 South	3.15%	Port Botany Rail (plus 5.3m)	Dec 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport		
					MGA94		metres	metres		metres	metres	metres				metres	%
					metres	(feet)											
46	36	3326	333162.0	6243301.1	20.8	68.2	10.1	10.7	TREE	2961	126.8 South	4.33%	Tree	Mar 22	N		
47	40	9566	333148.3	6243352.1	16.8	55.0	10.1	6.6	TREE	2963	138.2 South	3.14%	TREE	Nov 21	N		
48	43	4430	333119.3	6243505.1	18.1	59.4	10.3	7.8	TREE	2979	116.9 South	3.36%	Tree	Nov 21	N		
49	44	5453	333149.0	6243413.6	16.4	53.8	10.3	6.0	TREE	2981	96.9 South	2.87%	Tree	Feb 22	N		
50	45	5452	333147.4	6243423.1	16.1	52.9	10.4	5.8	TREE	2983	592.1 North	2.79%	Tree	Feb 22	N		
51	46	4469	333118.1	6243521.1	17.5	57.6	10.4	7.2	TREE	2983	356.9 North	3.18%	Tree	Nov 21	N		
52	47	3879	333167.1	6243370.4	16.6	54.5	10.4	6.2	MOVG	2986	304.9 North	2.89%	Port Botany Rail (plus 5.3m)	Dec 21	N		
53	48	2955	333197.9	6243297.8	18.8	61.5	10.5	8.2	TREE	2995	440.1 North	3.40%	Tree	Nov 21	N		
54	49	5457	333187.8	6243380.6	17.7	58.1	10.7	7.0	TREE	3009	537.3 North	3.00%	Tree	Nov 21	N		
55	50	3969	333140.5	6243543.1	17.8	58.3	10.7	7.1	TREE	3011	107.3 North	3.01%	Tree	Nov 21	N		
56	51	9571	333212.3	6243305.3	18.8	61.6	10.7	8.1	TREE	3011	68.9 North	3.27%	TREE	Nov 21	N		
57	54	3881	333210.5	6243345.9	16.7	54.8	10.8	5.9	MOVG	3021	12.3 South	2.67%	Port Botany Rail (plus 5.3m)	Dec 21	N		
58	55	125	333225.5	6243305.9	16.7	54.8	10.9	5.8	SPIRE	3023	73.8 North	2.65%	Light Pole	Dec 21	N		
59	56	9570	333231.4	6243319.3	19.4	63.5	11.0	8.4	TREE	3033	270.2 North	3.23%	TREE	Dec 21	N		
60	58	3332	333240.5	6243343.3	19.6	64.2	11.2	8.4	TREE	3049	380.5 North	3.16%	Tree	Dec 21	N		
61	59	4762	333194.9	6243570.2	19.4	63.5	11.4	7.9	TREE	3071	83.3 South	2.96%	Tree	Nov 21	N		
62	60	4763	333199.1	6243560.4	19.5	63.9	11.4	8.0	TREE	3072	68.0 South	2.98%	Tree	Nov 21	N		
63	61	3334	333193.8	6243580.9	19.9	65.3	11.4	8.4	TREE	3073	60.4 South	3.07%	Tree	Nov 21	N		
64	62	3335	333260.8	6243360.6	20.0	65.6	11.4	8.6	TREE	3073	84.6 North	3.09%	Tree	Nov 21	N		
65	63	867	333208.2	6243539.5	17.6	57.8	11.5	6.1	BLDG	3074	179.8 North	2.55%	SW cnr Conc Building	Nov 21	N		
66	64	137	333273.4	6243340.3	21.6	70.7	11.5	10.0	TREE	3079	69.3 North	3.38%	Gum Tree	Dec 21	N		
67	65	9429	333277.5	6243351.2	22.9	75.1	11.6	11.3	TREE	3086	171.0 North	3.62%	Tree	Dec 21	N		
68	66	5442	333283.2	6243341.5	24.3	79.8	11.6	12.7	TREE	3089	50.0 North	3.90%	Tree	Mar 22	N		
69	67	9430	333286.8	6243348.3	23.7	77.8	11.7	12.0	TREE	3094	30.6 North	3.73%	Tree	Mar 22	N		
70	70	39	333280.5	6243435.9	20.0	65.6	11.9	8.1	SPIRE	3114	112.4 North	2.83%	Sewer Vent	Dec 21	N		
71	71	5443	333311.1	6243353.1	24.6	80.6	12.0	12.6	TREE	3119	14.0 North	3.72%	Tree	Mar 22	N		
72	72	3339	333259.6	6243541.9	21.6	71.0	12.1	9.6	TREE	3124	238.3 North	3.10%	Tree	Dec 21	N		
73	73	3112	333245.7	6243592.8	23.1	75.7	12.1	11.0	TREE	3126	256.4 North	3.37%	Tree	Dec 21	N		
74	74	3340	333259.3	6243553.6	21.0	68.9	12.1	8.9	TREE	3127	228.8 North	2.95%	Tree	Dec 21	N		
75	75	812	333323.2	6243357.7	23.9	78.3	12.2	11.7	TREE	3132	491.7 North	3.49%	Row of Sheoaks	Dec 21	N		
76	76	3185	333282.4	6243513.8	22.9	75.1	12.2	10.7	TREE	3138	150.1 South	3.26%	Tree	Dec 21	N		
77	77	824	333328.8	6243360.5	24.1	79.2	12.2	11.9	TREE	3138	107.6 South	3.50%	Row of Sheoaks	Dec 21	N		
78	78	826	333340.4	6243363.8	23.2	76.2	12.4	10.9	TREE	3150	103.6 South	3.25%	Row of Sheoaks	Dec 21	N		
79	79	9547	333269.9	6243601.5	20.8	68.3	12.4	8.4	TREE	3152	91.8 South	2.79%	Gum Tree	Dec 21	N		
80	80	828	333360.1	6243379.3	24.3	79.7	12.7	11.6	TREE	3174	72.1 South	3.30%	Gum Tree	Dec 21	N		
81	81	9431	333373.4	6243387.1	29.6	97.1	12.8	16.8	TREE	3189	94.4 South	4.15%	Tree	Mar 22	N		
82	82	343	333366.4	6243412.7	25.8	84.5	12.8	12.9	TREE	3189	847.8 South	3.47%	Gum Tree	Dec 21	N		
83	83	830	333379.3	6243389.9	29.6	97.2	12.9	16.7	TREE	3195	837.4 South	4.11%	Gum Tree	Mar 22	N		
84	85	2890	333390.0	6243391.0	29.9	98.0	13.0	16.8	TREE	3206	75.1 South	4.08%	Tree	Mar 22	N		
85	86	838	333397.2	6243410.3	25.7	84.3	13.2	12.5	TREE	3218	85.0 North	3.29%	Gum Tree	Dec 21	N		
86	87	834	333405.5	6243408.6	28.9	94.8	13.3	15.6	TREE	3225	66.2 North	3.78%	Gum Tree	Mar 22	N		
87	88	836	333410.5	6243414.2	29.8	97.8	13.4	16.5	TREE	3232	586.5 North	3.89%	Gum Tree	Mar 22	N		
88	89	842	333423.8	6243433.3	31.6	103.8	13.6	18.1	TREE	3250	673.7 South	4.06%	Gum Tree	Mar 22	N		
89	90	780	333362.4	6243654.2	26.8	87.9	13.6	13.1	TREE	3255	50.1 South	3.27%	Gum Tree	Dec 21	N		
90	91	1739	333464.3	6243367.4	27.2	89.2	13.8	13.4	TREE	3270	582.8 North	3.26%	Tree	Dec 21	N		
91	92	9510	333456.8	6243448.8	29.8	97.9	14.0	15.8	TREE	3286	29.8 South	3.58%	TREE	Mar 22	N		

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airpor	
					MGA94		metres	metres		metres	metres	metres				%
					metres	(feet)										
92	93	3114	333406.5	6243648.4	26.4	86.7	14.1	12.3	TREE	3296	514.1 North	3.02%	Norfolk Pine Tree	Dec 21	N	
93	94	2941	333470.5	6243441.9	30.7	100.6	14.1	16.5	TREE	3297	165.0 North	3.64%	Tree	Mar 22	N	
94	95	1803	333488.1	6243384.2	25.2	82.6	14.1	11.0	TREE	3298	131.4 North	2.83%	Tree	Dec 21	N	
95	96	9549	333421.5	6243621.0	24.3	79.6	14.2	10.1	TREE	3302	139.3 North	2.68%	TREE	Dec 21	N	
96	97	3348	333456.3	6243617.3	26.0	85.3	14.6	11.4	TREE	3334	50.8 South	2.80%	Tree	Dec 21	N	
97	98	9527	333507.2	6243454.1	30.4	99.7	14.6	15.8	TREE	3336	61.5 South	3.40%	Gum Tree	Dec 21	N	
98	99	1738	333523.1	6243452.1	30.4	99.7	14.8	15.6	TREE	3351	58.9 South	3.34%	Tree	Dec 21	N	
99	100	9511	333470.9	6243639.8	27.9	91.6	14.8	13.1	TREE	3355	95.9 South	2.98%	TREE	Dec 21	N	
100	101	9513	333539.2	6243462.5	29.6	97.1	15.0	14.6	TREE	3369	23.2 South	3.15%	Gum Tree	Dec 21	N	
101	102	9525	333545.7	6243577.3	25.7	84.5	15.5	10.3	TREE	3409	25.8 South	2.50%	TREE	Dec 21	N	
102	103	3115	333549.1	6243567.8	28.0	91.7	15.5	12.5	TREE	3409	74.8 South	2.78%	Tree	Dec 21	N	
103	104	9526	333554.0	6243559.5	23.6	77.6	15.5	8.1	TREE	3411	73.6 South	2.23%	TREE	Dec 21	N	
104	105	9528	333599.5	6243479.1	29.8	97.6	15.8	14.0	TREE	3432	67.7 South	2.93%	Gum Tree	Dec 21	N	
105	106	9512	333526.5	6243723.6	29.6	97.2	15.8	13.9	TREE	3432	58.0 North	2.91%	TREE	Dec 21	N	
106	107	206	333577.9	6243733.7	25.6	84.0	16.4	9.2	TREE	3485	46.9 North	2.27%	Tree	Dec 21	N	
107	109	204	333579.2	6243743.4	26.7	87.6	16.4	10.3	TREE	3489	35.9 North	2.38%	Tree	Dec 21	N	
108	110	5906	333653.3	6243511.3	34.0	111.4	16.5	17.5	TREE	3492	82.4 North	3.20%	Gum Tree	Mar 22	N	
109	111	3976	333658.1	6243496.7	32.4	106.3	16.5	15.9	TREE	3493	40.6 North	3.02%	Tree	Dec 21	N	
110	112	380	333687.3	6243524.0	33.7	110.5	16.9	16.8	TREE	3529	121.5 North	3.05%	Sheoak	Dec 21	N	
111	114	844	333652.6	6243686.8	26.5	87.0	17.1	9.4	TREE	3543	132.8 North	2.22%	Gum Tree	Dec 21	N	
112	115	9504	333701.9	6243528.1	33.3	109.2	17.1	16.2	TREE	3544	123.2 North	2.95%	TREE	Dec 21	N	
113	116	5460	333688.2	6243612.2	25.6	84.0	17.2	8.4	TREE	3555	122.7 North	2.09%	Pine Tree	Dec 21	N	
114	117	382	333720.3	6243536.7	32.4	106.3	17.3	15.1	TREE	3564	111.2 North	2.79%	Sheoak	Dec 21	N	
115	119	4482	333685.4	6243666.2	27.9	91.5	17.4	10.5	TREE	3568	119.0 North	2.31%	Tree	Dec 21	N	
116	120	846	333675.4	6243701.2	30.5	100.1	17.4	13.1	TREE	3569	109.2 North	2.58%	Gum Tree	Dec 21	N	
117	121	4481	333708.5	6243596.2	26.9	88.3	17.4	9.5	TREE	3570	106.4 North	2.20%	Norfolk Pine Tree	Dec 21	N	
118	122	854	333701.5	6243703.3	39.0	128.0	17.7	21.3	TREE	3594	89.8 North	3.39%	Gum Tree	Mar 22	N	
119	123	465	333721.4	6243659.1	31.2	102.4	17.8	13.4	TREE	3600	82.9 North	2.57%	Stringy Bark	Dec 21	N	
120	124	467	333732.0	6243650.7	26.9	88.2	17.9	9.0	TREE	3608	81.3 North	2.11%	Stringy Bark	Dec 21	N	
121	125	5907	333754.5	6243589.4	26.6	87.3	17.9	8.7	TREE	3612	84.6 North	2.08%	Gum Tree	Dec 21	N	
122	127	493	333722.7	6243725.8	39.8	130.6	18.0	21.8	TREE	3621	196.9 North	3.38%	Gum Tree Group	Mar 22	N	
123	128	469	333748.1	6243644.1	29.5	96.8	18.0	11.5	TREE	3622	734.8 South	2.35%	Stringy Bark	Dec 21	N	
124	129	384	333791.3	6243519.5	27.3	89.4	18.1	9.2	TREE	3627	187.6 South	2.11%	Tree	Dec 21	N	
125	130	1263	333758.1	6243632.4	31.4	102.9	18.1	13.3	TREE	3628	12.5 North	2.52%	Tree	Dec 21	N	
126	131	471	333753.5	6243650.6	29.2	95.8	18.1	11.1	TREE	3629	102.4 South	2.30%	Stringy Bark	Dec 21	N	
127	132	4483	333802.0	6243565.8	28.7	94.0	18.4	10.3	TREE	3651	157.2 North	2.20%	Tree	Dec 21	N	
128	133	45	333856.6	6243600.4	28.8	94.5	19.1	9.7	TREE	3713	57.9 South	2.09%	Pine Tree	Dec 21	N	
129	134	9531	333869.8	6243563.1	27.3	89.7	19.1	8.2	TREE	3715	115.3 South	1.95%	TREE	Dec 21	N	
130	135	3351	333875.4	6243594.6	29.7	97.5	19.3	10.4	TREE	3729	109.2 North	2.14%	Tree	Dec 21	N	
131	136	3350	333866.4	6243628.3	28.6	93.9	19.3	9.3	TREE	3730	7.7 South	2.04%	Tree	Dec 21	N	
132	137	9499	333867.9	6243747.4	29.5	96.9	19.8	9.8	TREE	3766	114.2 South	2.05%	Gum	Dec 21	N	
133	138	535	333868.8	6243771.2	30.3	99.5	19.9	10.5	TREE	3774	114.4 South	2.11%	Gum and Pines	Dec 21	N	
134	139	9500	333910.2	6243639.0	30.0	98.5	19.9	10.2	TREE	3775	104.7 South	2.08%	TREE	Dec 21	N	
135	140	1270	333934.5	6243601.9	33.5	109.9	20.0	13.5	TREE	3788	105.3 South	2.35%	Tree	Nov 21	N	
136	141	2322	333903.8	6243703.9	35.3	115.9	20.0	15.3	TREE	3788	100.7 South	2.51%	Tree	Dec 21	N	
137	143	563	333962.7	6243785.5	34.2	112.1	21.0	13.2	TREE	3868	90.4 South	2.26%	Gum Tree	Dec 21	N	

2021 RWY 07 Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airpor		
					MGA94		metres	metres		metres	metres	metres				metres	%
					metres	(feet)											
138	144	9588	334049.4	6243519.0	32.2	105.6	21.1	11.1	TREE	3874	86.5 South	2.09%	TREE	Dec 21	N		
139	145	9506	334026.7	6243625.9	30.9	101.3	21.2	9.7	TREE	3883	86.4 South	1.97%	GUM	Dec 21	N		
140	146	9587	334041.3	6243586.0	36.4	119.5	21.2	15.2	TREE	3885	114.3 North	2.40%	Gum	Dec 21	N		
141	147	5908	334016.0	6243740.8	32.8	107.7	21.4	11.4	TREE	3906	72.0 South	2.09%	Gum Tree	Dec 21	N		
142	148	9589	334092.5	6243519.9	34.0	111.6	21.6	12.5	TREE	3915	104.4 North	2.16%	TREE	Dec 21	N		
143	149	9586	334032.5	6243724.7	32.1	105.2	21.6	10.5	TREE	3917	111.6 North	2.01%	TREE	Dec 21	N		
144	150	9576	334190.8	6243973.6	33.8	111.0	24.3	9.6	TREE	4141	0.2 North	1.83%	Norfolk Pine	Dec 21	N		
145	151	48	334385.5	6243522.9	36.7	120.3	24.9	11.7	SPIRE	4197	106.1 North	1.94%	Traffic Camera+Mobile phone	Dec 21	N		
146	152	77	334673.3	6243758.6	44.6	146.4	29.1	15.6	ANTEN	4540	108.1 South	2.01%	Mobile Phone Tower	Dec 21	N		
147	153	169	336559.5	6245074.9	71.6	234.9	55.3	16.3	ANTEN	6727	92.0 North	1.60%	Antenna on Flats	Dec 21	N		
148	154	352	337614.0	6245387.8	92.5	303.5	68.5	24.0	TREE	7827	85.7 North	1.66%	Pine Tree	Nov 21	N		
149	155	358	337689.4	6245406.7	96.4	316.3	69.4	27.0	TREE	7904	136.8 North	1.71%	Tree	Nov 21	N		
150	157	2312	337870.1	6245077.7	93.4	306.5	70.4	23.1	SPIRE	7982	107.9 North	1.63%	Mobile Phone Tower	Mar 22	N		
151	158	4831	337974.6	6244974.4	96.6	316.9	71.2	25.4	TREE	8052	70.2 North	1.67%	Norfolk Pine Tree	Mar 22	N		
152	159	9502	338039.4	6245004.0	99.2	325.4	72.0	27.1	TREE	8123	70.8 South	1.69%	Gum Tree	Mar 22	N		
153	160	185	338062.9	6244982.8	101.0	331.4	72.2	28.8	TREE	8139	55.8 South	1.72%	Fig Tree	Mar 22	N		
154	161	187	338103.8	6244910.3	96.9	317.8	72.5	24.4	TREE	8157	45.4 North	1.64%	Norfolk Pine Tree	Mar 22	N		

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 07 Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing					(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m)	(ft)
332799.696	6243319.910	73° 10' 55"	4.896 (16.063)	2529.9	2619.9	6.012	(19.724)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles
(Obstacles newly reflected on Type A Charts - 2021 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	
					MGA94		metres	metres		metres	metres	metres		%
					metres	(feet)	metres	metres		metres	metres	%		
3		731	332924.6	6243250.7	8.4	27.7	7.2	1.2	MOVG	2719	23.9 North	2.44%	Perimeter Road Crown (plus 3.6m)	
42		3973	333059.5	6243532.8	15.2	49.7	9.7	5.4	MOVG	2930	35.1 South	2.95%	Port Botany Rail (plus 5.3m)	
30		5956	333034.0	6243270.9	11.6	37.9	8.5	3.0	TREE	2830	41.6 South	2.64%	Shrub	
37		5957	333059.9	6243333.6	12.2	39.9	9.0	3.1	TREE	2873	117.5 South	2.43%	Shrub	
29		5958	332995.1	6243397.1	13.1	43.0	8.5	4.6	TREE	2829	95.5 South	3.39%	Shrub	
39		5959	333105.9	6243290.1	13.0	42.8	9.4	3.6	TREE	2904	60.8 South	2.47%	Shrub	
38		5984	333057.6	6243366.6	14.1	46.3	9.1	5.0	TREE	2880	103.6 South	3.11%	Tree	

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles
(Obstacles removed from Type A Charts - 2020 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	
					MGA94		metres	metres		metres	metres	metres		%
					metres	(feet)	metres	metres		metres	%			
	142	47	333963.7	6243586.9	30.2	99.1	20.3	9.9	TREE	3811	81.2 South	2.03%	Pine Tree Group	
	5	60	332922.3	6243290.9	8.0	26.4	7.3	0.7	LINES	2729	63.2 South	1.87%	Blast Deflector S end	
	7	102	332942.6	6243263.4	9.1	29.9	7.5	1.7	SPIRE	2740	95.5 South	2.58%	Light Pole	
	126	113	333125.3	6243297.3	14.3	46.8	9.7	4.6	SPIRE	2925	115.8 South	2.71%	Light Pole	
	156	291	337942.0	6244798.9	88.7	291.0	70.2	18.5	ANTEN	7970	72.1 South	1.55%	Antenna on Flats	
	6	827	332942.9	6243253.9	8.3	27.2	7.4	0.9	MOVG	2738	104.7 South	1.94%	Road Crown (plus 4.3m)	
	68	884	333285.2	6243392.8	19.2	62.9	11.8	7.3	TREE	3106	70.8 South	2.71%	Gum Tree	
	69	1162	333258.9	6243506.1	19.1	62.6	11.9	7.2	TREE	3113	45.4 North	2.65%	Gum Tree	
	21	4629	332955.0	6243437.0	9.5	31.1	8.2	1.3	SPIRE	2803	67.1 North	1.90%	Light Pole	
	26	4652	332995.5	6243295.5	9.5	31.0	8.2	1.3	SPIRE	2800	80 South	1.91%	Light Pole	
	12	4657	332986.9	6243468.0	10.5	34.4	8.7	1.8	SPIRE	2842	87.6 North	2.01%	Sign	
	113	4681	333055.8	6243510.8	11.9	39.1	9.6	2.3	BLDG	2920	108.6 North	1.96%	Railway Bridge	
	108	4682	333067.7	6243488.2	15.2	49.9	9.7	5.5	SPIRE	2925	83.5 North	3.01%	Pole	
	1	8867	332807.7	6243293.6	6.1	20.1	6.0	0.1	SPIRE	2620	27.5 South	449.78%	Gable Marker	

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 25 Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330234.385	6242544.516	253° 10' 55"	6.007 (19.708)	2529.9	2589.9	5.920 (19.423)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

- Note:
1. These numbers are regenerated with each survey and may vary from one year to the next.
 2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
		318	328122.0	6241662.9	47.0	154.2	33.2	13.8	SPIRE	4867	232.7 South	1.80%	Vent	Dec 21	N
		322	327790.4	6241402.1	54.9	180.0	38.0	16.9	ANTEN	5260	386.4 South	1.83%	Antenna	Dec 21	N
55	61	324	327829.1	6242101.4	56.5	185.4	35.1	21.4	TREE	5021	271.7 North	2.08%	Tree	Mar 22	N
		328	326912.1	6241910.8	65.9	216.1	46.3	19.6	SPIRE	5953	354.6 North	1.78%	Vent	Dec 21	N
		338	324726.5	6240115.4	102.9	337.7	77.6	25.3	BLDG	8565	731.6 South	1.62%	Building	Dec 21	N
		442	324580.1	6240187.3	93.9	308.1	79.1	14.8	SPIRE	8684	620.4 South	1.44%	White Vent	Dec 21	N
		448	326449.8	6241498.5	74.8	245.4	53.0	21.8	TREE	6515	93.7 North	1.75%	Gum	Dec 21	N
		458	328155.8	6241629.0	49.1	161.1	33.0	16.1	BLDG	4844	275.0 South	1.92%	Building	Dec 21	N
		460	326991.4	6241470.5	62.3	204.3	46.9	15.4	TREE	6005	89.7 South	1.65%	Gum	Dec 21	N
		462	326892.2	6241245.5	55.7	182.6	48.8	6.8	TREE	6165	276.5 South	1.39%	Tree	Dec 21	N
		466	326936.0	6241258.3	57.0	186.9	48.3	8.7	TREE	6119	276.9 South	1.45%	Tree	Dec 21	N
		586	330250.4	6242488.0	6.3	20.7	5.9	0.4	SPIRE	2591	58.8 South	38.58%	Gable Marker	Nov 21	Y
		652	328120.0	6241695.7	48.0	157.5	33.2	14.8	BLDG	4860	200.8 South	1.85%	Vent atop block of Units	Dec 21	N
35	36	706	329058.5	6242075.8	28.3	92.7	21.1	7.2	TREE	3851	108.4 South	1.77%	Norfolk Tree	Dec 21	N
		722	327989.7	6241493.6	48.6	159.3	35.4	13.2	ANTEN	5043	356.5 South	1.74%	Aerial atop apartment block	Dec 21	N
		728	326897.6	6241773.5	69.7	228.7	46.9	22.8	TREE	6007	227.4 North	1.87%	Gum Tree	Dec 21	N
		730	326775.8	6241245.1	53.4	175.3	50.2	3.3	ANTEN	6277	243.1 South	1.29%	Aerial	Dec 21	N
		732	325527.7	6240581.8	88.3	289.8	66.8	21.5	TREE	7663	517.0 South	1.62%	Gum Tree	Dec 21	N
		734	325448.9	6240516.7	79.5	261.0	67.9	11.6	TREE	7757	556.5 South	1.42%	Gum Tree	Dec 21	N
		1180	326892.5	6242002.9	56.0	183.8	46.2	9.8	SPIRE	5946	448.4 North	1.49%	Obstruction Light atop apartment block (lit)	Dec 21	N
		1224	326990.6	6242053.2	59.8	196.3	44.9	14.9	ANTEN	5837	468.2 North	1.66%	MAST/PYLON	Dec 21	N
	74	1227	326990.9	6242076.0	65.5	214.7	44.8	20.6	ANTEN	5830	490.0 North	1.84%	MAST/PYLON	Dec 21	N
		1658	330112.1	6242552.8	7.5	24.6	7.3	0.2	BLDG	2705	43.3 North	1.38%	RWY 25 RESA Northern Concrete Safety Barrier	Nov 21	Y
4	5	1670	330200.4	6242481.8	8.0	26.4	6.5	1.5	LINES	2641	50.2 South	4.18%	RWY 25 RESA Southern Safety Barrier (Western End)	Mar 22	Y
	6	1700	330142.5	6242496.6	8.7	28.5	7.1	1.5	SPIRE	2692	19.3 South	2.71%	RWY 25 Localiser southern Obstruction Light (lit)	Mar 22	Y
5	7	1702	330131.3	6242533.6	8.7	28.5	7.1	1.6	SPIRE	2692	19.3 North	2.73%	RWY 25 Localiser northern Obstruction Light (lit)	Mar 22	Y
53	59	1707	328112.2	6241628.2	51.3	168.3	33.5	17.8	SPIRE	4886	263.1 South	1.98%	Aerial atop building	Nov 21	N
		1709	329770.1	6242495.7	12.7	41.7	11.4	1.3	SPIRE	3048	87.6 North	1.48%	Flood Light	Dec 21	N
		1710	329739.5	6242497.6	12.8	41.9	11.8	1.0	SPIRE	3077	98.2 North	1.41%	Flood Light	Dec 21	N
		1713	330135.6	6242560.0	7.2	23.7	7.0	0.2	BLDG	2680	43.4 North	1.45%	RWY 25 RESA Northern Concrete Safety Barrier	Nov 21	Y
52	58	1784	328135.3	6241579.3	50.6	166.2	33.4	17.3	ANTEN	4879	316.6 South	1.95%	Satellite dish atop building	Dec 21	N
59	68	1785	327095.9	6242035.6	69.5	228.0	43.7	25.8	TREE	5741	421.0 North	2.02%	Tree	Mar 22	N
3	4	1787	330238.0	6242492.3	7.7	25.3	6.1	1.7	SPIRE	2602	51.0 South	15.42%	Railing (lit)	Mar 22	Y
		1789	330134.7	6242561.4	7.7	25.4	7.0	0.7	SPIRE	2681	45.0 North	2.00%	Railing	Nov 21	Y
41	44	1814	328556.5	6241915.8	39.5	129.5	27.4	12.1	TREE	4378	116.3 South	1.88%	Palm Tree	Dec 21	N
42	45	1815	328560.3	6241895.5	38.3	125.7	27.4	10.9	TREE	4380	136.9 South	1.81%	Palm Tree	Dec 21	N
	43	1816	328538.9	6241976.6	34.8	114.0	27.4	7.4	BLDG	4377	53.0 South	1.61%	BLDG	Dec 21	N
	48	1817	328479.6	6242017.7	38.1	125.0	27.9	10.2	BLDG	4422	3.4 North	1.76%	BLDG	Dec 21	N
		1818	326392.5	6241582.0	75.0	246.1	53.4	21.6	TREE	6546	190.2 North	1.75%	TREE	Dec 21	N
		1968	327362.5	6242111.7	55.7	182.6	40.4	15.2	TREE	5464	416.6 North	1.73%	Tree	Dec 21	N
		1975	326267.6	6241883.6	70.5	231.4	53.8	16.8	TREE	6578	515.0 North	1.62%	Tree	Dec 21	N
		1977	324942.2	6241074.7	77.2	253.3	71.8	5.4	TREE	8081	124.3 North	1.30%	North Folk Pine tree	Dec 21	N
		1978	325560.4	6241283.5	73.8	242.2	64.0	9.8	TREE	7429	145.2 North	1.40%	Tree	Dec 21	N
		1979	325590.0	6241318.5	74.7	245.1	63.5	11.2	TREE	7390	170.2 North	1.43%	Tree	Dec 21	N
		1981	325780.2	6241050.5	75.2	246.6	62.3	12.9	TREE	7286	141.3 South	1.47%	Tree	Dec 21	N
		1982	325599.6	6240855.2	84.4	276.8	65.0	19.4	TREE	7515	276.1 South	1.59%	Tree	Dec 21	N
		2000	325639.2	6240871.0	73.2	240.1	64.5	8.7	BLDG	7473	272.4 South	1.38%	Apex of roof	Dec 21	N
		2015	326187.5	6241829.9	67.0	219.8	54.9	12.1	TREE	6671	486.9 North	1.50%	Pine Tree	Dec 21	N

2021 RWY 25 Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94										
		2017	326242.5	6241721.9	73.0	239.5	54.6	18.4	TREE	6649	367.6 North	1.65%	Pine Tree	Dec 21	N
		2019	326187.5	6241683.9	70.7	232.0	55.4	15.3	TREE	6713	347.1 North	1.57%	Pine Tree	Dec 21	N
		2023	326289.5	6241448.9	63.0	206.7	55.0	8.0	BLDG	6683	92.7 North	1.39%	Tile Roof	Dec 21	N
		2027	326144.5	6241651.9	66.3	217.6	56.0	10.3	TREE	6763	328.9 North	1.45%	Gum Tree	Dec 21	N
		2029	326130.5	6241641.9	65.0	213.3	56.2	8.8	TREE	6779	323.4 North	1.41%	Pine Tree	Dec 21	N
		2031	326147.5	6241579.9	63.7	209.0	56.2	7.5	SPIRE	6781	259.1 North	1.38%	Elec Pole with OH trans	Dec 21	N
61	70	2039	327148.5	6241822.9	69.3	227.4	43.9	25.4	TREE	5753	202.1 North	2.00%	Norfolk Pine Tree	Mar 22	N
60	69	2041	327151.5	6241816.9	66.7	218.8	43.9	22.8	TREE	5752	195.5 North	1.92%	Norfolk Pine Tree	Mar 22	N
		2052	327235.0	6242028.0	55.1	180.8	42.2	12.9	BLDG	5610	373.4 North	1.63%	Apex of house	Dec 21	N
64	73	2053	327026.1	6242062.4	77.0	252.6	44.4	32.6	TREE	5800	466.7 North	2.21%	Norfolk Pine Tree	Mar 22	N
		2061	326961.7	6242000.2	61.5	201.8	45.4	16.1	BLDG	5880	425.8 North	1.69%	Building	Dec 21	N
		2067	327032.5	6242057.9	61.9	203.1	44.4	17.5	BLDG	5796	460.6 North	1.75%	School - N end Building	Dec 21	N
		2069	327070.5	6242014.9	61.9	203.1	44.1	17.8	BLDG	5772	408.5 North	1.76%	School - S end Building	Dec 21	N
		2071	327165.5	6241897.9	59.8	196.2	43.4	16.4	BLDG	5715	269.0 North	1.72%	Building	Dec 21	N
		2075	326911.8	6241673.2	62.4	204.7	47.1	15.3	BLDG	6023	127.3 North	1.65%	White Gable on Tile Roof	Dec 21	N
		2077	326847.7	6241725.5	61.8	202.8	47.7	14.1	ANTEN	6069	195.9 North	1.61%	Church Bell Tower	Dec 21	N
		2079	326950.3	6241979.8	61.5	201.8	45.6	15.9	SPIRE	5897	409.6 North	1.68%	Sewer Vent	Dec 21	N
		2095	326723.5	6241601.9	64.1	210.3	49.5	14.6	BLDG	6223	113.5 North	1.60%	Conc. edge of roof	Dec 21	N
		2097	326710.5	6241618.9	64.1	210.3	49.6	14.5	BLDG	6231	133.6 North	1.60%	Conc. edge of roof	Dec 21	N
68	78	2101	326564.5	6241734.9	77.0	252.6	50.9	26.1	BLDG	6337	286.9 North	1.90%	Church Spire	Mar 22	N
		2105	326388.5	6241451.9	68.3	224.1	53.9	14.4	SPIRE	6588	66.9 North	1.56%	Sewer Vent	Dec 21	N
		2109	326321.5	6241175.9	61.0	200.1	55.6	5.4	SPIRE	6731	177.9 South	1.33%	Sewer Vent	Dec 21	N
		2111	326217.5	6241258.9	62.6	205.4	56.5	6.1	SPIRE	6807	68.4 South	1.34%	Elec Pole	Dec 21	N
		2113	326203.5	6241312.9	62.8	206.0	56.5	6.3	SPIRE	6805	12.6 South	1.35%	El and Lt Pole	Dec 21	N
		2115	326206.5	6241333.9	61.6	202.1	56.4	5.2	SPIRE	6796	6.6 North	1.32%	Elec Pole	Dec 21	N
		2117	326241.5	6241418.9	62.2	204.1	55.7	6.5	SPIRE	6738	77.8 North	1.36%	Elec Pole	Dec 21	N
		2119	326263.5	6241439.9	64.3	211.0	55.4	8.9	SPIRE	6711	91.6 North	1.42%	El and Lt Pole	Dec 21	N
		2121	326345.5	6241478.9	65.4	214.6	54.3	11.1	SPIRE	6621	105.2 North	1.48%	Elec Pole no light	Dec 21	N
		2123	326388.5	6241480.9	66.1	216.9	53.8	12.3	SPIRE	6579	94.6 North	1.51%	Elec Pole	Dec 21	N
		2125	326541.5	6241525.9	69.6	228.3	51.9	17.7	SPIRE	6420	93.4 North	1.66%	El and Lt Pole	Dec 21	N
		2127	326509.5	6241503.9	73.5	241.1	52.3	21.2	SPIRE	6457	81.6 North	1.75%	El and Lt Pole	Dec 21	N
		2129	326485.5	6241486.9	71.2	233.6	52.7	18.5	SPIRE	6485	72.3 North	1.68%	El and Lt Pole	Dec 21	N
		2131	326466.5	6241473.9	70.8	232.3	52.9	17.9	SPIRE	6506	65.4 North	1.66%	Elec Pole	Dec 21	N
		2133	326441.5	6241454.9	68.4	224.4	53.3	15.1	SPIRE	6536	54.4 North	1.58%	El and Lt Pole	Dec 21	N
		2135	326416.5	6241435.9	67.0	219.8	53.6	13.4	SPIRE	6565	43.5 North	1.54%	Elec Pole	Dec 21	N
		2137	326426.5	6241474.9	67.9	222.8	53.4	14.5	SPIRE	6544	77.9 North	1.57%	El and Lt Pole	Dec 21	N
		2139	326339.5	6241354.9	62.2	204.1	54.8	7.4	SPIRE	6662	11.8 South	1.38%	Elec Pole	Dec 21	N
		2141	326326.5	6241307.9	59.8	196.2	55.1	4.7	SPIRE	6689	53.0 South	1.31%	Elec Pole	Dec 21	N
		2143	326314.5	6241263.9	57.8	189.6	55.4	2.4	SPIRE	6713	91.7 South	1.26%	Elec Pole	Dec 21	N
		2145	326288.5	6241165.9	61.5	201.8	56.0	5.5	SPIRE	6766	178.0 South	1.33%	Elec Pole	Dec 21	N
		2147	326346.5	6241383.9	64.6	211.9	54.6	10.0	SPIRE	6647	13.9 North	1.45%	Elec Pole	Dec 21	N
		2149	326303.5	6241218.9	60.4	198.2	55.7	4.7	SPIRE	6736	131.6 South	1.31%	Elec Pole	Dec 21	N
		2151	326422.5	6241066.9	58.1	190.6	54.8	3.3	SPIRE	6666	311.5 South	1.28%	Elec Pole with Transformer	Dec 21	N
		2153	326387.5	6241112.9	58.9	193.2	55.1	3.8	SPIRE	6687	257.3 South	1.29%	Elec Pole	Dec 21	N
		2155	326344.5	6241171.9	59.5	195.2	55.4	4.1	SPIRE	6711	188.4 South	1.30%	Elec Pole	Dec 21	N
		2157	326280.5	6241131.9	61.8	202.8	56.2	5.6	SPIRE	6783	208.2 South	1.33%	Elec Pole	Dec 21	N
		2159	326208.5	6241696.9	64.6	211.9	55.1	9.5	TREE	6689	353.5 North	1.43%	Pine Tree	Dec 21	N
	62	2165	327641.5	6241713.9	58.0	190.3	38.6	19.4	TREE	5312	44.9 South	1.91%	Pine Tree	Dec 21	N
		2167	327550.5	6241801.9	53.6	175.9	39.3	14.3	SPIRE	5374	65.7 North	1.71%	Sewer Vent	Dec 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		%					
67	77	2169	327557.5	6241821.9	53.1	174.2	39.2	13.9	SPIRE	5361	82.8 North	1.70%	Sewer Vent	Dec 21	N
		2179	326679.7	6241616.0	85.5	280.5	50.0	35.5	TREE	6261	139.7 North	2.17%	Norfolk Pine Tree	Mar 22	N
		2183	327273.5	6241352.9	56.8	186.3	44.1	12.7	TREE	5769	283.9 South	1.60%	Palm Tree	Dec 21	N
33 31	34	2185	329448.9	6242219.9	22.2	72.8	16.1	6.1	SPIRE	3436	83.4 South	1.92%	Flood Light Pole	Nov 21	N
	32	2233	329552.2	6242219.6	20.1	65.8	14.9	5.2	SPIRE	3337	113.6 South	1.89%	Flood Light Pole	Nov 21	N
		2235	328985.3	6241972.5	23.4	76.8	22.3	1.1	SPIRE	3951	186.1 South	1.28%	Elec Pole + Light	Dec 21	N
		2239	328517.5	6242212.9	27.0	88.6	26.8	0.2	SPIRE	4329	179.3 North	1.21%	Elec Pole	Dec 21	N
		2243	328463.5	6242219.9	30.0	98.5	27.4	2.6	SPIRE	4379	201.7 North	1.35%	Elec Pole	Dec 21	N
	50	2247	328463.5	6241999.2	39.0	128.0	28.2	10.9	SPIRE	4443	9.6 South	1.79%	Elec Pole	Dec 21	N
47	54	2249	328430.0	6242054.5	43.1	141.3	28.3	14.7	SPIRE	4459	53.0 North	1.99%	Sewer Vent	Nov 21	N
		2252	326423.6	6241634.1	76.1	249.7	52.9	23.2	TREE	6501	231.0 North	1.79%	Tree at front of property	Dec 21	N
		2253	328233.9	6241583.0	45.3	148.6	32.2	13.0	SPIRE	4783	341.6 South	1.79%	Sewer Vent	Dec 21	N
		2255	327733.6	6241731.7	49.3	161.8	37.5	11.9	BLDG	5219	54.5 South	1.65%	Building	Dec 21	N
		2256	326503.8	6241607.3	71.8	235.4	52.0	19.7	TREE	6432	182.2 North	1.71%	Tree at rear of property	Dec 21	N
		2257	327707.7	6241713.9	49.5	162.3	37.8	11.7	BLDG	5249	64.1 South	1.64%	Building	Dec 21	N
		2258	326420.4	6241665.1	63.5	208.3	52.8	10.7	BLDG	6495	261.8 North	1.47%	roof	Dec 21	N
		2259	327653.5	6241816.9	49.7	163.1	38.1	11.6	SPIRE	5271	50.3 North	1.63%	Sewer Vent	Dec 21	N
		2260	326589.8	6241756.3	71.2	233.6	50.5	20.7	TREE	6307	300.0 North	1.76%	Tree at rear of property	Dec 21	N
		2261	327668.2	6241678.2	50.7	166.4	38.4	12.3	SPIRE	5297	86.8 South	1.65%	Pole	Dec 21	N
		2264	326605.0	6241677.3	66.0	216.4	50.6	15.3	TREE	6315	220.0 North	1.61%	Tree at front of property	Dec 21	N
		2266	326607.5	6241662.2	67.2	220.6	50.6	16.6	TREE	6317	204.8 North	1.65%	Tree at front of property	Dec 21	N
		2268	326619.6	6241662.0	65.9	216.3	50.5	15.4	TREE	6306	201.1 North	1.61%	Tree at front of property	Dec 21	N
		2270	326242.3	6241913.3	67.5	221.6	54.0	13.6	TREE	6594	550.8 North	1.54%	Tree at rear of property	Dec 21	N
		2271	326281.0	6241519.6	71.8	235.4	54.9	16.9	TREE	6671	162.8 North	1.61%	Tree at rear of property	Dec 21	N
		2275	326031.5	6240604.9	86.1	282.6	60.9	25.2	TREE	7174	640.6 South	1.75%	Norfolk Pine Tree	Dec 21	N
		2277	325688.5	6240863.9	80.0	262.5	64.0	16.0	SPIRE	7428	293.4 South	1.53%	Elec Pole	Dec 21	N
		2279	329551.1	6242471.1	15.7	51.3	14.0	1.6	SPIRE	3265	127.4 North	1.44%	Floodlight	Dec 21	N
		2283	325643.5	6240446.9	79.5	260.7	65.9	13.5	ANTEN	7591	679.6 South	1.47%	Cross on Church	Dec 21	N
		2285	325625.5	6240494.9	80.2	263.0	66.0	14.2	ANTEN	7595	628.4 South	1.48%	Antenna	Dec 21	N
		2287	325631.0	6240409.0	79.3	260.2	66.2	13.1	SPIRE	7614	712.3 South	1.46%	El and Lt Pole	Dec 21	N
		2290	329013.8	6242099.8	23.9	78.4	21.5	2.4	TREE	3887	72.5 South	1.39%	Fir Tree	Dec 21	N
		2293	324109.8	6240216.6	122.8	402.9	84.4	38.5	BLDG	9126	456.4 South	1.79%	Antenna atop tile roofed flats	Mar 22	N
		2297	324633.2	6240175.3	90.0	295.4	78.5	11.5	BLDG	8637	647.2 South	1.39%	Tan Brick Building	Dec 21	N
		2299	324569.3	6240055.9	108.5	356.0	79.6	28.9	ANTEN	8733	743.1 South	1.67%	Radio Mast	Nov 21	N
		2301	324568.0	6240055.4	96.6	316.9	79.7	16.9	BLDG	8734	743.2 South	1.48%	Building	Dec 21	N
		2302	324522.5	6240158.8	106.1	348.2	79.8	26.3	BLDG	8748	631.0 South	1.63%	Apartment Block	Dec 21	N
		2304	330128.5	6242578.7	7.0	23.1	7.0	0.0	SPIRE	2681	63.4 North	1.23%	Railing	Nov 21	Y
		2305	324571.0	6240239.9	93.3	306.2	79.0	14.4	BLDG	8678	567.4 South	1.44%	TV Antenna atop brick building	Dec 21	N
		2309	324751.5	6240107.9	96.6	316.9	77.4	19.2	BLDG	8543	746.0 South	1.52%	Mast/Pylon atop building	Dec 21	N
		2315	326222.3	6241707.1	66.3	217.5	54.9	11.4	TREE	6673	359.3 North	1.48%	Stringy Bark Tree	Dec 21	N
		2317	324145.1	6240173.9	92.2	302.5	84.1	8.1	BLDG	9105	507.4 South	1.32%	Block of Flats	Dec 21	N
		2319	323974.5	6240146.9	119.4	391.6	86.2	33.2	BLDG	9276	483.9 South	1.70%	Antenna atop building	Nov 21	N
		2323	323962.5	6239979.9	96.8	317.6	86.9	9.9	TREE	9336	640.2 South	1.35%	Norfolk Pine Tree	Dec 21	N
		2325	323703.5	6239868.9	96.5	316.6	90.2	6.3	ANTEN	9616	671.6 South	1.29%	Trig	Dec 21	N
		2327	323709.5	6239874.9	94.3	309.4	90.1	4.2	BLDG	9608	667.5 South	1.26%	Reservoir	Dec 21	N
		2329	323656.5	6239837.9	98.9	324.5	90.9	8.0	ANTEN	9670	687.6 South	1.31%	Antenna	Dec 21	N
		2331	323650.5	6239831.9	93.9	308.1	91.0	2.9	BLDG	9677	691.6 South	1.24%	Reservoir	Dec 21	N
62	71	2341	327127.3	6241853.8	66.0	216.5	44.0	22.0	TREE	5764	237.8 North	1.89%	Gum Tree	Nov 21	N
		2345	327277.5	6241866.9	56.4	185.0	42.2	14.2	SPIRE	5616	206.9 North	1.67%	Elec Pole	Dec 21	N

2021 RWY 25 Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94										
		2347	327313.5	6241894.9	55.4	181.8	41.7	13.7	SPIRE	5574	223.3 North	1.66%	Elec Pole	Dec 21	N
		2349	327167.5	6242087.9	60.7	199.1	42.7	18.0	SPIRE	5658	450.3 North	1.79%	Elec Pole	Dec 21	N
		2351	327193.5	6242053.9	58.5	191.9	42.6	15.9	SPIRE	5643	410.2 North	1.72%	Elec Pole	Dec 21	N
		2353	327237.5	6241994.9	57.5	188.6	42.3	15.2	SPIRE	5618	341.0 North	1.70%	Elec Pole	Dec 21	N
		2355	327283.5	6241934.9	57.8	189.6	41.9	15.9	SPIRE	5591	270.3 North	1.73%	Elec Pole	Dec 21	N
		2357	327249.5	6241909.9	57.9	190.0	42.4	15.5	SPIRE	5631	256.2 North	1.71%	Sewer Vent	Dec 21	N
		2363	327162.5	6242016.9	61.5	201.8	43.0	18.5	SPIRE	5683	383.8 North	1.80%	Sewer Vent	Dec 21	N
	66	2365	327176.5	6241989.9	61.8	202.8	43.0	18.8	SPIRE	5678	353.9 North	1.81%	Sewer Vent	Dec 21	N
		2371	330090.7	6242584.5	8.6	28.2	7.4	1.2	LINES	2716	79.9 North	2.12%	Razer wire atop Airside Fence	Nov 21	N
6	9	2373	330085.5	6242575.9	8.8	28.8	7.5	1.2	LINES	2723	73.1 North	2.14%	Airside Fence (lit)	Mar 22	N
		2411	325603.6	6240466.0	86.3	283.2	66.3	20.0	TREE	7624	649.8 South	1.60%	Gum Tree	Dec 21	N
		2413	325607.8	6240460.1	91.0	298.6	66.3	24.7	TREE	7622	656.6 South	1.69%	Gum Tree	Dec 21	N
		2415	329630.2	6242471.0	13.9	45.5	13.1	0.8	SPIRE	3189	104.5 North	1.33%	Flood Light Pole	Dec 21	N
		2451	329030.1	6242090.7	22.2	72.7	21.3	0.8	SPIRE	3874	86.0 South	1.26%	Elec Pole	Dec 21	N
2	2	2464	330243.6	6242500.4	7.0	23.0	6.0	1.1	SPIRE	2594	44.9 South	27.77%	Unserviceable red and white cone	Mar 22	Y
	3	2466	330238.2	6242498.7	7.1	23.2	6.0	1.0	SPIRE	2600	45.0 South	12.00%	Unserviceable red and white cone	Nov 21	Y
		2468	330235.5	6242497.9	7.1	23.3	6.1	1.0	SPIRE	2602	45.0 South	9.55%	Unserviceable red and white cone	Nov 21	Y
		2472	330215.9	6242587.3	6.2	20.2	6.0	0.2	SPIRE	2595	46.3 North	4.76%	Bollard	Nov 21	Y
		2473	328584.8	6241834.9	30.2	99.1	27.3	2.9	SPIRE	4374	202.0 South	1.36%	Sewer Vent	Dec 21	N
		2474	330187.8	6242578.9	6.8	22.4	6.3	0.5	SPIRE	2625	46.4 North	2.59%	Bollard	Nov 21	Y
37	39	2475	328635.2	6242186.9	32.3	106.0	25.5	6.8	TREE	4224	120.3 North	1.61%	Gum Tree	Dec 21	N
		2476	330161.4	6242571.0	7.1	23.3	6.7	0.4	SPIRE	2652	46.4 North	1.92%	Bollard	Nov 21	Y
	47	2477	328442.6	6242164.5	36.2	118.8	27.8	8.4	SPIRE	4415	154.7 North	1.66%	Sewer Vent	Dec 21	N
46	52	2479	328453.3	6242001.3	43.0	140.9	28.3	14.7	TREE	4452	4.7 South	1.99%	Pine Tree	Nov 21	N
		2481	328459.7	6241948.5	36.1	118.4	28.4	7.7	SPIRE	4461	57.1 South	1.61%	El and Lt Pole (old pole + new Pole)	Dec 21	N
		2483	328472.9	6241836.9	34.7	114.0	28.6	6.1	SPIRE	4481	167.7 South	1.52%	Sewer Vent	Dec 21	N
		2487	328383.1	6241748.5	39.9	131.0	29.9	10.0	SPIRE	4592	226.3 South	1.70%	Sewer Vent	Dec 21	N
		2489	328334.0	6241827.0	33.5	109.9	30.2	3.2	SPIRE	4617	137.0 South	1.36%	Sewer Vent	Dec 21	N
		2491	328361.5	6241741.5	41.0	134.6	30.2	10.8	SPIRE	4615	226.8 South	1.73%	Sewer Vent	Dec 21	N
		2493	328354.4	6241702.5	37.8	124.2	30.4	7.4	SPIRE	4633	262.1 South	1.56%	Elec Pole	Dec 21	N
18	19	2494	329837.8	6242522.9	14.4	47.2	10.6	3.8	TREE	2976	94.1 North	2.20%	Tree	Nov 21	N
29	30	2496	329512.9	6242460.7	20.0	65.6	14.5	5.5	TREE	3305	128.5 North	1.97%	Tree	Nov 21	N
		2497	327366.5	6241397.9	46.6	152.9	42.8	3.8	SPIRE	5667	267.8 South	1.32%	Elec Pole	Dec 21	N
34	35	2498	329327.0	6242474.8	24.0	78.7	16.6	7.4	TREE	3479	195.8 North	2.03%	Tree	Nov 21	N
		2499	327398.5	6241418.9	46.1	151.2	42.4	3.7	SPIRE	5630	256.9 South	1.32%	Elec Pole	Dec 21	N
36	37	2500	328824.4	6241898.9	32.1	105.5	24.4	7.8	TREE	4126	210.0 South	1.71%	Tree	Dec 21	N
		2501	327424.5	6241457.9	48.3	158.5	42.0	6.3	ANTEN	5594	227.1 South	1.41%	Mast/Pylon	Dec 21	N
38	40	2502	328693.8	6241921.0	32.5	106.5	25.8	6.7	TREE	4245	151.0 South	1.60%	Tree	Dec 21	N
		2503	327455.5	6241448.9	50.0	164.0	41.6	8.3	SPIRE	5567	244.7 South	1.48%	Sewer Vent	Dec 21	N
		2505	327452.5	6241402.9	45.4	148.9	41.8	3.6	SPIRE	5583	287.9 South	1.32%	Elec Pole	Dec 21	N
		2506	328281.6	6241718.5	43.8	143.6	31.2	12.5	TREE	4698	225.6 South	1.79%	Tree	Dec 21	N
		2509	327426.5	6241440.9	47.5	155.8	42.0	5.5	SPIRE	5597	244.0 South	1.38%	Elec Pole	Dec 21	N
		2511	327644.3	6241638.9	44.4	145.7	38.8	5.6	ANTEN	5331	117.5 South	1.40%	TV Antenna	Dec 21	N
	63	2517	327450.1	6241801.5	59.4	194.9	40.5	18.9	TREE	5470	94.4 North	1.86%	Tree	Dec 21	N
		2519	327473.5	6241790.9	55.2	181.1	40.3	14.9	SPIRE	5451	77.5 North	1.72%	Sewer Vent	Dec 21	N
		2595	328960.6	6241909.9	24.5	80.5	22.8	1.8	SPIRE	3993	238.9 South	1.33%	Elec Pole	Dec 21	N
		2597	328973.7	6241941.3	23.0	75.5	22.5	0.5	SPIRE	3971	212.6 South	1.24%	Elec Pole	Dec 21	N
		2609	326239.5	6241169.9	65.4	214.6	56.6	8.8	TREE	6812	159.9 South	1.41%	Pine Tree	Dec 21	N
		2613	326273.5	6241092.9	62.4	204.7	56.5	5.9	SPIRE	6801	243.5 South	1.34%	Elec Pole	Dec 21	N

2021 RWY 25 Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		2617	327037.1	6241966.2	61.5	201.8	44.7	16.9	SPIRE	5818	371.5 North	1.72%	Elec Pole	Dec 21	N
		2841	330157.7	6242595.9	7.5	24.7	6.6	0.9	SPIRE	2648	71.3 North	2.75%	Aerial atop Localiser Power Shed	Mar 22	Y
		2861	329118.7	6242421.6	20.9	68.4	19.2	1.7	TREE	3693	205.1 North	1.35%	Needle Pine	Dec 21	N
57	65	2868	327242.7	6242070.0	61.6	202.0	41.9	19.6	TREE	5591	411.4 North	1.85%	Gum Tree	Dec 21	N
	64	2869	327265.2	6242107.7	66.5	218.2	41.5	25.0	TREE	5559	441.0 North	2.04%	Norfolk Island Pine	Mar 22	N
		2870	327278.8	6241973.7	54.7	179.6	41.9	12.9	BLDG	5584	308.7 North	1.63%	Chimney	Dec 21	N
63		2871	327275.4	6241964.8	55.7	182.9	41.9	13.8	BLDG	5590	301.2 North	1.66%	Chimney	Dec 21	N
	72	2872	327102.0	6241917.8	64.0	210.0	44.1	19.9	TREE	5770	306.4 North	1.83%	Gum Tree	Dec 21	N
69		2875	324693.5	6240083.9	114.9	377.1	78.1	36.8	SPIRE	8606	752.2 South	1.81%	Lightning Rod	Mar 22	N
	79	2882	324864.1	6240063.9	126.1	413.6	76.2	49.8	ANTEN	8448	820.8 South	2.05%	Aerial NE Side Park Plaza Units	Mar 22	N
		2884	329473.9	6242490.9	17.0	55.6	14.8	2.1	SPIRE	3333	168.7 North	1.48%	Sporting field flood light	Dec 21	N
		3039	324663.0	6240254.0	100.0	328.1	77.9	22.1	BLDG	8586	580.5 South	1.57%	Orange wall atop building	Dec 21	N
		3040	330244.3	6242500.9	6.6	21.5	6.0	0.6	TERRN	2593	44.7 South	20.70%	Concrete pavement (RESA)	Nov 21	Y
		3042	330135.6	6242495.4	7.2	23.8	7.2	0.0	TERRN	2699	18.4 South	1.21%	Concrete pavement (RESA)	Nov 21	Y
20	21	3046	329853.4	6242326.8	14.0	45.8	11.1	2.9	TREE	3018	98.1 South	1.88%	Tree	Nov 21	N
30	31	3051	329502.4	6242420.2	21.2	69.5	14.8	6.4	TREE	3327	92.8 North	2.07%	Tree	Nov 21	N
		3053	328944.7	6241934.4	25.7	84.3	22.9	2.8	TREE	4001	210.9 South	1.40%	Tree	Dec 21	N
		3054	328427.0	6241741.6	40.6	133.3	29.5	11.2	TREE	4552	245.6 South	1.77%	Tree	Dec 21	N
48	55	3177	328448.4	6241987.0	43.5	142.6	28.4	15.1	TREE	4461	16.9 South	2.01%	Tree	Nov 21	N
		3180	328444.7	6241946.6	42.6	139.9	28.6	14.1	TREE	4476	54.5 South	1.95%	Tree	Nov 21	N
		3203	326964.9	6241487.5	52.8	173.2	47.1	5.7	BLDG	6025	65.8 South	1.36%	Building	Dec 21	N
		3208	326192.0	6241048.6	70.9	232.7	57.5	13.4	TREE	6892	262.4 South	1.51%	Tree	Dec 21	N
		3209	326209.7	6241066.4	70.5	231.2	57.3	13.2	TREE	6870	250.4 South	1.51%	Tree	Dec 21	N
		3210	326204.1	6241152.0	69.9	229.3	57.0	12.8	TREE	6851	166.8 South	1.50%	Tree	Dec 21	N
		3213	326430.1	6241081.3	56.3	184.6	54.7	1.6	TREE	6655	299.9 South	1.24%	Tree	Dec 21	N
		3216	326174.7	6241833.2	64.1	210.4	55.0	9.1	TREE	6682	493.7 North	1.42%	Tree	Dec 21	N
		3217	326253.6	6241769.7	65.3	214.1	54.3	10.9	TREE	6625	410.1 North	1.47%	Tree	Dec 21	N
		3218	326373.9	6241704.9	71.2	233.7	53.2	18.1	TREE	6528	313.3 North	1.66%	Tree	Dec 21	N
		3219	326461.3	6241581.7	71.9	235.8	52.6	19.3	TREE	6480	170.1 North	1.70%	Tree	Dec 21	N
		3221	326350.9	6241513.4	70.5	231.2	54.1	16.4	TREE	6606	136.6 North	1.61%	Tree	Dec 21	N
		3222	326425.2	6241399.6	70.5	231.4	53.7	16.9	TREE	6567	6.2 North	1.62%	Tree	Dec 21	N
		3223	326479.6	6241433.7	71.0	232.8	52.9	18.0	TREE	6505	23.1 North	1.66%	Tree	Dec 21	N
		3224	326472.7	6241442.8	70.8	232.3	53.0	17.8	TREE	6510	33.8 North	1.66%	Tree	Dec 21	N
		3225	326569.8	6241449.3	66.4	217.7	51.8	14.5	TREE	6415	11.9 North	1.58%	Tree	Dec 21	N
		3226	326563.3	6241459.6	65.8	215.9	51.9	13.9	TREE	6418	23.6 North	1.56%	Tree	Dec 21	N
		3227	326425.9	6241385.9	68.5	224.6	53.7	14.8	TREE	6571	7.1 South	1.57%	Tree	Dec 21	N
		3228	326568.2	6241339.4	66.8	219.2	52.2	14.6	TREE	6448	92.8 South	1.58%	Tree	Dec 21	N
		3233	326480.5	6241834.1	66.6	218.4	51.5	15.1	TREE	6389	406.1 North	1.60%	Tree	Dec 21	N
		3235	326664.3	6241764.7	64.7	212.4	49.6	15.1	TREE	6233	286.5 North	1.61%	Tree	Dec 21	N
		3236	326683.7	6241747.8	61.3	201.2	49.5	11.8	TREE	6219	264.7 North	1.53%	Tree	Dec 21	N
		3237	326626.4	6241683.1	64.6	212.0	50.4	14.3	TREE	6293	219.3 North	1.59%	Tree	Dec 21	N
		3238	326645.4	6241703.5	64.6	211.8	50.1	14.5	TREE	6269	233.4 North	1.59%	Tree	Dec 21	N
		3239	326651.1	6241712.7	62.8	205.9	50.0	12.8	TREE	6261	240.6 North	1.55%	Tree	Dec 21	N
		3241	326488.5	6241591.6	71.1	233.3	52.3	18.8	TREE	6451	171.6 North	1.69%	Tree	Dec 21	N
		3245	326802.1	6241363.1	62.1	203.8	49.4	12.7	TREE	6217	137.8 South	1.55%	Tree	Dec 21	N
		3247	326767.1	6241791.7	65.0	213.3	48.4	16.7	TREE	6127	282.6 North	1.67%	Tree	Dec 21	N
		3260	326754.0	6241955.8	65.6	215.1	47.9	17.6	TREE	6092	443.5 North	1.70%	Tree	Dec 21	N
		3261	326788.7	6242002.9	63.5	208.2	47.4	16.1	TREE	6045	478.5 North	1.67%	Tree	Dec 21	N
		3262	326827.1	6241607.9	70.2	230.5	48.3	21.9	TREE	6123	89.3 North	1.82%	Tree	Dec 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
							metres	(feet)		metres	metres	metres			
		3263	327092.9	6241181.0	54.3	178.0	46.7	7.5	TREE	5992	396.3 South	1.42%	Tree	Dec 21	N
		3266	326977.0	6241882.6	66.0	216.4	45.6	20.3	TREE	5900	308.9 North	1.81%	Tree	Dec 21	N
		3274	327216.1	6241569.7	61.1	200.4	44.0	17.1	TREE	5761	59.9 South	1.74%	Tree	Dec 21	N
		3280	327479.1	6241700.6	57.5	188.7	40.5	17.0	TREE	5472	10.7 South	1.79%	Tree	Dec 21	N
		3286	326296.3	6241649.7	62.0	203.3	54.3	7.7	BLDG	6619	282.9 North	1.39%	Building	Dec 21	N
		3289	326833.6	6241841.4	59.5	195.3	47.4	12.1	BLDG	6049	310.9 North	1.55%	Building	Dec 21	N
		3290	326809.8	6241561.9	67.3	220.6	48.7	18.6	BLDG	6152	50.2 North	1.72%	Building	Dec 21	N
		3291	326795.4	6241581.6	67.2	220.4	48.8	18.4	BLDG	6160	73.3 North	1.72%	Building	Dec 21	N
58	67	3353	327158.1	6241987.4	64.2	210.6	43.2	21.0	TREE	5696	356.8 North	1.88%	Tree	Dec 21	N
		3354	326760.3	6241511.7	71.6	234.9	49.4	22.2	TREE	6214	16.5 North	1.81%	Tree	Dec 21	N
		3355	326860.5	6241590.9	66.7	218.7	48.0	18.7	TREE	6095	63.3 North	1.73%	Tree	Dec 21	N
		3356	326852.4	6241698.2	66.8	219.0	47.7	19.0	TREE	6072	168.4 North	1.75%	Tree	Dec 21	N
		3361	330121.1	6242571.3	7.6	25.0	7.1	0.5	SPIRE	2691	58.4 North	1.68%	Water stop valve	Nov 21	Y
		3674	327351.6	6242065.1	55.8	183.2	40.7	15.1	TREE	5488	375.2 North	1.72%	Tree	Dec 21	N
		3676	327326.6	6241960.0	57.5	188.6	41.4	16.1	TREE	5542	281.7 North	1.75%	Tree	Dec 21	N
		3874	326223.7	6241601.3	66.4	217.9	55.3	11.1	TREE	6702	257.6 North	1.47%	Tree	Dec 21	N
		3878	326267.4	6241805.2	67.8	222.3	54.1	13.7	TREE	6601	440.1 North	1.54%	Tree	Dec 21	N
		3880	326293.6	6241824.9	69.1	226.6	53.7	15.4	TREE	6570	451.4 North	1.59%	Tree	Dec 21	N
		3882	326280.5	6241782.2	65.6	215.1	54.0	11.6	TREE	6595	414.3 North	1.49%	Tree	Dec 21	N
		3884	326368.7	6241949.1	66.0	216.4	52.4	13.6	TREE	6463	548.5 North	1.55%	Tree	Dec 21	N
		3915	326970.9	6242002.3	65.6	215.1	45.3	20.3	BLDG	5871	425.2 North	1.82%	AERIAL atop unit block	Dec 21	N
		3917	327008.7	6241954.7	63.8	209.3	45.0	18.8	BLDG	5848	368.7 North	1.78%	AERIAL atop unit block	Dec 21	N
		3919	327057.7	6241873.1	62.3	204.3	44.7	17.5	BLDG	5825	276.4 North	1.74%	AIR CONDITIONING DUCT atop unit block	Dec 21	N
		3940	326350.3	6241591.8	64.5	211.6	53.8	10.6	BLDG	6584	211.8 North	1.47%	Building	Dec 21	N
		3945	324700.3	6240033.5	118.6	389.2	78.2	40.4	BLDG	8614	802.4 South	1.87%	Building	Mar 22	N
26	27	3993	329632.1	6242409.7	20.5	67.3	13.3	7.2	TREE	3206	45.2 North	2.37%	TREE	Mar 22	N
43	46	3994	328504.0	6241998.3	40.1	131.5	27.7	12.4	TREE	4404	22.2 South	1.88%	Palm Tree	Dec 21	N
		3999	324583.9	6240084.4	113.1	371.1	79.4	33.7	BLDG	8711	720.1 South	1.75%	Apartments	Nov 21	N
9	11	4392	329925.0	6242381.2	14.5	47.6	10.0	4.5	TREE	2933	66.8 South	2.50%	Tree	Mar 22	N
12	14	4394	329868.6	6242505.4	12.8	41.8	10.3	2.5	TREE	2951	68.4 North	1.89%	Tree	Nov 21	N
15	16	4398	329873.6	6242463.7	14.3	46.9	10.3	4.0	TREE	2959	27.1 North	2.27%	Tree	Mar 22	N
17	18	4400	329852.5	6242488.5	13.0	42.7	10.5	2.5	SPIRE	2972	56.9 North	1.86%	Pole	Nov 21	N
23	24	4402	329751.5	6242478.4	16.1	52.9	11.7	4.4	TREE	3071	76.4 North	2.12%	Tree	Nov 21	N
25	26	4404	329646.4	6242418.3	17.9	58.6	13.1	4.8	TREE	3189	49.3 North	1.99%	Tree	Nov 21	N
24	25	4406	329650.4	6242434.2	15.8	51.7	13.0	2.8	TREE	3181	63.4 North	1.67%	Tree	Dec 21	N
		4497	328429.6	6241678.2	42.4	139.1	29.7	12.7	TREE	4568	307.1 South	1.84%	Pine Tree	Dec 21	N
		4794	326374.0	6241918.0	57.6	189.0	52.4	5.2	BLDG	6466	517.2 North	1.33%	House		N
27	28	4802	329600.3	6242393.7	20.2	66.3	13.7	6.5	TREE	3241	39.0 North	2.19%	Tree	Mar 22	N
28	29	4804	329543.3	6242397.0	20.5	67.4	14.4	6.2	TREE	3294	58.8 North	2.08%	Tree	Nov 21	N
40	42	4806	328576.1	6241992.1	33.3	109.4	26.9	6.5	SPIRE	4337	49.0 South	1.57%	Sewer vent	Dec 21	N
		4808	328275.1	6241987.9	37.6	123.3	30.4	7.2	TREE	4626	34.1 North	1.56%	Tree	Dec 21	N
50	57	4814	328102.8	6242017.2	48.5	159.2	32.2	16.3	BLDG	4783	112.0 North	1.94%	Building	Dec 21	N
		4818	327846.7	6241406.2	45.8	150.4	37.3	8.5	BLDG	5205	398.8 South	1.53%	Satellite dish atop building	Dec 21	N
		4820	327688.0	6241797.7	51.2	168.0	37.8	13.4	TREE	5244	21.9 North	1.71%	Tree	Dec 21	N
		4822	326957.2	6241526.2	63.2	207.2	47.1	16.1	TREE	6022	26.6 South	1.67%	Tree	Dec 21	N
		4824	327036.6	6241764.8	64.9	213.1	45.4	19.6	TREE	5877	178.8 North	1.80%	Tree	Dec 21	N
		4826	326730.0	6241713.0	65.1	213.5	49.1	16.0	TREE	6185	218.0 North	1.65%	Tree	Dec 21	N
		4827	324045.3	6240209.8	126.7	415.7	85.1	41.6	BLDG	9190	444.1 South	1.83%	Building	Mar 22	N
		4885	326390.3	6241137.1	60.3	197.9	55.0	5.3	TREE	6677	235.0 South	1.33%	Tree	Dec 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres							
		4886	326325.2	6241223.3	61.0	200.0	55.4	5.6	TREE	6714	133.6 South	1.33%	Tree	Dec 21	N
		4887	326489.4	6241133.2	60.6	198.7	53.8	6.7	TREE	6583	267.4 South	1.37%	Tree	Dec 21	N
		4894	326989.0	6241613.2	57.2	187.8	46.4	10.8	BLDG	5966	47.5 North	1.52%	House		N
		4896	326496.1	6241294.6	57.5	188.7	53.2	4.3	BLDG	6530	114.9 South	1.31%	Grey tiled house	Dec 21	N
		4897	326529.9	6241340.5	59.0	193.7	52.7	6.4	BLDG	6484	80.7 South	1.36%	Grey tiled house	Dec 21	N
		4898	326345.5	6241678.5	62.8	206.1	53.6	9.2	BLDG	6563	296.2 North	1.43%	House	Dec 21	N
		4899	326262.4	6241601.8	62.4	204.8	54.8	7.6	BLDG	6665	246.8 North	1.39%	House	Dec 21	N
		4900	326236.5	6241529.7	60.9	199.7	55.4	5.5	BLDG	6710	185.3 North	1.33%	House	Dec 21	N
		4901	326303.7	6241506.9	64.1	210.2	54.7	9.4	BLDG	6653	144.1 North	1.43%	Grey tiled house	Dec 21	N
		4902	326654.0	6241574.9	61.2	200.9	50.4	10.8	BLDG	6298	107.8 North	1.49%	House	Dec 21	N
		4903	326374.9	6241556.4	63.0	206.7	53.7	9.3	BLDG	6570	170.9 North	1.43%	Red tiled house	Dec 21	N
		4904	326320.2	6241629.5	62.7	205.7	54.1	8.6	BLDG	6601	256.6 North	1.42%	House	Dec 21	N
		4905	326391.9	6241803.3	61.8	202.6	52.6	9.1	BLDG	6483	402.2 North	1.43%	House	Dec 21	N
		4906	326432.2	6241971.3	57.3	188.1	51.6	5.7	BLDG	6395	551.4 North	1.35%	House	Dec 21	N
		4925	326713.0	6241522.5	61.2	200.6	49.9	11.2	BLDG	6256	40.5 North	1.51%	Appartment block	Dec 21	N
		4926	326685.9	6241495.5	60.9	199.7	50.3	10.6	BLDG	6290	22.5 North	1.49%	Appartment block	Dec 21	N
		4927	326728.2	6241534.2	62.7	205.8	49.7	13.0	BLDG	6238	47.3 North	1.56%	Appartment block	Dec 21	N
		4928	326744.5	6241546.0	63.5	208.2	49.5	14.0	BLDG	6220	53.9 North	1.59%	Appartment block	Dec 21	N
		4929	326808.8	6241401.5	57.1	187.2	49.2	7.8	BLDG	6200	103.0 South	1.42%	Appartment block	Dec 21	N
		4930	326838.9	6241483.7	61.7	202.3	48.6	13.0	BLDG	6147	33.0 South	1.57%	Appartment block	Dec 21	N
		4931	326301.9	6241715.1	61.8	202.8	54.0	7.8	BLDG	6594	343.9 North	1.40%	Red tiled house	Dec 21	N
		4932	326305.3	6241818.5	58.5	192.0	53.6	5.0	BLDG	6561	441.9 North	1.32%	House	Dec 21	N
		4933	326335.4	6241778.1	58.0	190.2	53.4	4.6	BLDG	6544	394.5 North	1.32%	House	Dec 21	N
		4934	326371.2	6241644.5	63.5	208.5	53.4	10.1	BLDG	6548	256.3 North	1.46%	House	Dec 21	N
		4947	326852.8	6241289.4	58.8	192.9	49.1	9.7	TREE	6190	223.1 South	1.47%	Tree	Dec 21	N
		4948	327043.1	6241408.0	56.3	184.6	46.5	9.7	TREE	5974	164.5 South	1.49%	Tree	Dec 21	N
		4949	327064.6	6241415.2	55.7	182.7	46.3	9.4	TREE	5951	163.9 South	1.48%	Tree	Dec 21	N
		4950	327047.9	6241437.2	55.3	181.4	46.4	8.9	TREE	5961	138.0 South	1.46%	Tree	Dec 21	N
		4952	327143.1	6241510.6	59.0	193.6	45.0	14.0	TREE	5848	95.3 South	1.63%	Tree	Dec 21	N
		4953	327098.8	6241549.5	58.4	191.6	45.4	13.0	TREE	5879	45.2 South	1.60%	Palm Tree	Dec 21	N
		4954	327114.3	6241700.5	57.0	187.1	44.7	12.3	TREE	5821	94.8 North	1.58%	Tree	Dec 21	N
		4955	327143.3	6241704.9	57.4	188.4	44.3	13.1	TREE	5792	90.7 North	1.61%	Tree	Dec 21	N
		4956	326648.7	6241478.1	71.6	234.8	50.8	20.8	TREE	6331	16.6 North	1.75%	Tree	Dec 21	N
		4957	326502.4	6241254.4	56.8	186.3	53.3	3.5	TREE	6536	155.1 South	1.29%	Tree	Dec 21	N
		4958	326257.0	6241419.7	67.5	221.4	55.5	12.0	TREE	6723	74.1 North	1.49%	Tree	Dec 21	N
		4960	326271.4	6241442.0	63.7	208.9	55.3	8.4	TREE	6702	91.2 North	1.40%	Tree	Dec 21	N
		4961	326319.7	6241340.5	63.1	207.0	55.1	8.0	TREE	6686	19.8 South	1.40%	Tree	Dec 21	N
		4962	326315.1	6241431.5	65.5	214.8	54.8	10.7	TREE	6664	68.5 North	1.46%	Tree	Dec 21	N
		4964	326544.8	6241192.1	55.2	181.0	53.0	2.2	TREE	6513	227.1 South	1.26%	Tree	Dec 21	N
		4965	326172.1	6241753.6	64.3	211.0	55.3	9.0	TREE	6707	418.2 North	1.42%	Tree	Dec 21	N
		4966	326115.2	6241783.5	63.3	207.5	55.9	7.4	TREE	6753	463.3 North	1.38%	Tree	Dec 21	N
		4967	326153.1	6241769.2	63.1	207.0	55.5	7.6	TREE	6721	438.7 North	1.38%	Tree	Dec 21	N
		4969	326380.7	6241873.6	62.8	206.0	52.5	10.3	TREE	6473	472.7 North	1.46%	Tree	Dec 21	N
		4970	327093.2	6241638.3	59.2	194.3	45.1	14.1	TREE	5859	41.4 North	1.63%	Tree	Dec 21	N
		4971	327197.4	6241655.4	55.6	182.6	43.9	11.8	TREE	5754	27.6 North	1.57%	Tree	Dec 21	N
		4972	327320.5	6241785.1	57.1	187.3	42.0	15.1	TREE	5599	116.1 North	1.70%	Tree	Dec 21	N
		4974	326696.1	6241874.8	62.1	203.7	48.9	13.2	TREE	6171	382.7 North	1.57%	Palm Tree	Dec 21	N
		4975	326909.1	6241497.0	65.5	214.9	47.8	17.7	TREE	6076	40.6 South	1.71%	Tree	Dec 21	N
		4976	326961.9	6241563.0	63.9	209.7	46.9	17.0	TREE	6006	7.3 North	1.70%	Tree	Dec 21	N

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					MGA94										
					metres	(feet)	metres	metres				%			
		4977	327413.8	6241813.8	53.3	174.9	40.9	12.4	BLDG	5501	116.6 North	1.63%	Building	Dec 21	N
		4978	326876.9	6241680.0	66.6	218.4	47.5	19.1	TREE	6054	143.9 North	1.75%	Tree	Dec 21	N
		5209	327064.3	6241572.4	55.8	183.0	45.7	10.1	BLDG	5906	13.3 South	1.50%	Grey tiled house	Dec 21	N
		5210	326917.9	6241463.8	59.1	193.9	47.8	11.3	BLDG	6077	74.9 South	1.53%	Appartment block	Dec 21	N
		5211	327006.6	6241705.1	57.4	188.4	45.9	11.5	BLDG	5923	130.4 North	1.55%	Appartment block	Dec 21	N
		5220	326359.1	6241863.8	60.2	197.5	52.8	7.4	BLDG	6496	469.7 North	1.39%	Grey tiled house	Dec 21	N
		5221	326283.0	6241931.9	56.0	183.8	53.4	2.6	BLDG	6550	556.8 North	1.27%	Grey tiled house	Dec 21	N
		5224	326886.0	6241807.9	60.8	199.4	46.9	13.8	BLDG	6008	263.7 North	1.60%	Building	Dec 21	N
		5244	326437.5	6241292.4	55.9	183.3	53.9	2.0	BLDG	6587	100.0 South	1.25%	Grey tiled house	Dec 21	N
		5245	326351.5	6241930.1	59.7	195.7	52.7	7.0	BLDG	6485	535.3 North	1.38%	Grey tiled house	Dec 21	N
		5272	326497.3	6241389.6	63.5	208.5	52.9	10.7	BLDG	6501	24.2 South	1.47%	Grey tiled house	Dec 21	N
		5369	326246.1	6241879.0	55.7	182.7	54.0	1.6	BLDG	6600	516.9 North	1.24%	Building	Dec 21	N
		5388	326306.1	6241283.3	61.1	200.6	55.4	5.7	TREE	6715	70.7 South	1.34%	Tree	Dec 21	N
		5389	326196.0	6241362.8	66.8	219.2	56.4	10.4	TREE	6797	37.2 North	1.45%	Tree	Dec 21	N
65	75	5400	327023.0	6241935.0	69.6	228.2	44.9	24.6	BLDG	5840	345.7 North	1.96%	Apartments	Mar 22	N
13	15	5437	329888.5	6242428.0	14.0	45.9	10.3	3.7	TREE	2955	11.5 South	2.21%	Tree	Mar 22	N
16	17	5438	329870.5	6242457.3	15.5	50.9	10.4	5.1	TREE	2963	21.8 North	2.56%	Tree	Mar 22	N
		5444	326626.0	6241543.0	61.7	202.4	50.8	10.9	BLDG	6334	85.3 North	1.49%	Building		N
7	10	5486	329920.5	6242562.7	11.6	38.1	9.5	2.1	TREE	2885	108.2 North	1.92%	TREE	Nov 21	N
19	20	5487	329842.0	6242397.7	14.5	47.6	10.9	3.6	TREE	3008	27.0 South	2.05%	TREE	Nov 21	N
10	12	5488	329896.3	6242427.8	13.2	43.3	10.2	3.0	TREE	2947	13.9 South	2.04%	Tree	Nov 21	N
11	13	5489	329868.5	6242513.3	13.0	42.7	10.2	2.8	TREE	2949	76.0 North	1.97%	Tree	Nov 21	N
32	33	5490	329396.0	6242428.5	22.6	74.1	16.0	6.6	TREE	3426	131.5 North	1.99%	Tree	Nov 21	N
		5491	328933.4	6242167.0	23.7	77.6	22.2	1.5	TREE	3945	15.0 North	1.31%	Palm Tree	Dec 21	N
		5492	328886.0	6242350.7	26.0	85.2	22.1	3.9	TREE	3937	204.6 North	1.49%	Tree	Dec 21	N
		5493	328833.6	6242082.7	26.3	86.2	23.6	2.7	TREE	4064	36.7 South	1.38%	Norfolk Pine Tree	Dec 21	N
		5717	326895.9	6241730.6	62.8	206.2	47.1	15.7	SPIRE	6021	186.9 North	1.66%	Sewer Vent	Dec 21	N
		5719	326880.4	6241660.3	64.9	212.9	47.5	17.4	TREE	6056	124.0 North	1.70%	Tree (Gum)	Dec 21	N
		5720	326901.9	6241629.4	67.0	219.7	47.4	19.6	TREE	6045	88.2 North	1.77%	Tree (Gum)	Dec 21	N
		5721	326856.9	6241627.0	64.3	211.0	47.9	16.4	SPIRE	6088	99.0 North	1.67%	Sewer Vent	Dec 21	N
		5722	326908.4	6241558.9	60.1	197.2	47.5	12.6	BLDG	6059	18.9 North	1.56%	Chimney	Dec 21	N
		5724	326896.2	6241602.0	59.2	194.2	47.5	11.7	SPIRE	6058	63.7 North	1.54%	Pole with Light	Dec 21	N
		5726	326781.1	6241535.4	63.3	207.7	49.1	14.2	BLDG	6188	33.2 North	1.59%	Roof	Dec 21	N
		5727	326823.9	6241509.8	61.4	201.4	48.7	12.7	BLDG	6154	3.7 South	1.56%	Roof	Dec 21	N
		5728	326823.5	6241565.7	61.2	200.8	48.5	12.7	SPIRE	6138	50.0 North	1.56%	Sewer Vent	Dec 21	N
		5729	326750.0	6241497.0	71.0	232.9	49.6	21.4	TREE	6228	5.4 North	1.79%	Tree (Norfolk Pine)	Dec 21	N
		5730	326835.1	6241538.4	62.5	205.1	48.5	14.0	TREE	6135	20.5 North	1.60%	Tree (Paper Bark)	Dec 21	N
		5731	326761.7	6241520.3	62.6	205.4	49.4	13.2	BLDG	6210	24.4 North	1.57%	Roof	Dec 21	N
		5735	326959.0	6241594.7	61.0	200.2	46.8	14.2	ANTEN	6000	38.5 North	1.62%	TV Antenna on Beige House	Dec 21	N
54	60	5827	327973.0	6241761.0	52.7	172.9	34.6	18.1	BLDG	4981	95.7 South	1.96%	Building		N
66	76	5835	326769.5	6241859.3	74.2	243.4	48.1	26.1	SPIRE	6105	346.6 North	1.94%	Tower Crane	Mar 22	N
21	22	5853	329765.7	6242469.1	14.2	46.6	11.6	2.6	SPIRE	3060	63.5 North	1.76%	Floodlight	Dec 21	N
22	23	5863	329768.4	6242440.8	14.8	48.5	11.6	3.2	TREE	3066	35.6 North	1.86%	Tree	Nov 21	N
		5909	330149.8	6242568.5	8.0	26.2	6.8	1.2	TREE	2664	47.5 North	2.81%	Shrub	Mar 22	Y
		5910	330137.7	6242575.3	7.3	23.9	6.9	0.4	TREE	2674	57.5 North	1.63%	Shrub	Nov 21	Y
		5912	329695.3	6242452.3	14.2	46.6	12.4	1.8	SPIRE	3133	67.7 North	1.53%	Floodlight	Dec 21	N
		5913	329033.6	6242393.2	24.5	80.5	20.2	4.3	TREE	3783	202.5 North	1.56%	Tree	Dec 21	N
		5915	328662.3	6241841.5	31.9	104.6	26.4	5.5	TREE	4298	218.1 South	1.52%	Tree	Dec 21	N
39	41	5916	328628.2	6241861.4	33.1	108.7	26.7	6.4	TREE	4325	189.1 South	1.57%	Tree	Dec 21	N

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					MGA94										
					metres	(feet)	metres	metres		%					
		5947	328010.2	6241886.3	50.1	164.5	33.8	16.4	SPIRE	4909	13.5 North	1.91%	Tower Crane (yellow)	Nov 21	N
8		5948	329956.2	6242422.1	11.3	36.9	9.5	1.7	TREE	2892	36.7 South	1.77%	Shrub	Nov 21	N
14		5949	329875.1	6242471.4	12.7	41.6	10.3	2.4	TREE	2955	33.9 North	1.85%	Shrub	Nov 21	N
56		5977	327829.0	6241494.0	56.9	186.7	37.2	19.7	SPIRE	5196	309.6 South	1.96%	Tower Crane		N
51		5996	328186.3	6241662.5	49.8	163.3	32.5	17.3	SPIRE	4806	251.7 South	1.98%	Tower Crane	Mar 22	N
		6533	326746.5	6241510.6	62.4	204.7	49.6	12.8	BLDG	6228	19.5 North	1.55%	Roof (dark brown tile)	Dec 21	N
		6534	326664.1	6241452.1	62.0	203.4	50.7	11.3	BLDG	6324	12.7 South	1.50%	Roof (brown tile)	Dec 21	N
		6536	326625.6	6241405.6	61.4	201.4	51.3	10.1	SPIRE	6374	46.0 South	1.47%	Light Pole (steel)	Dec 21	N
		6538	326540.4	6241463.7	69.4	227.7	52.1	17.3	SPIRE	6439	34.2 North	1.65%	Sewer Vent	Dec 21	N
		6539	326587.1	6241466.7	65.5	214.9	51.6	13.9	SPIRE	6393	23.6 North	1.57%	Pole with light	Dec 21	N
		6540	326602.2	6241472.1	63.5	208.3	51.4	12.1	BLDG	6377	24.4 North	1.52%	Roof (brown tile)	Dec 21	N
		6541	326629.3	6241440.4	62.0	203.4	51.2	10.8	BLDG	6360	13.8 South	1.49%	Roof (brown tile)	Dec 21	N
		6542	326592.4	6241425.8	63.5	208.3	51.6	11.9	SPIRE	6400	17.1 South	1.51%	Light Pole (steel)	Dec 21	N
		6543	326639.6	6241360.3	59.5	195.2	51.3	8.2	SPIRE	6374	93.4 South	1.42%	Light Pole (steel)	Dec 21	N
		6544	326708.7	6241303.3	54.2	177.8	50.7	3.5	SPIRE	6324	168.0 South	1.29%	Light Pole	Dec 21	N
		6545	326679.9	6241342.1	57.7	189.3	50.9	6.8	SPIRE	6340	122.5 South	1.38%	Pole with light	Dec 21	N
		6547	326716.0	6241392.9	62.0	203.3	50.3	11.6	TREE	6291	84.4 South	1.51%	Gum Tree	Dec 21	N
		6548	326734.2	6241395.3	64.3	210.8	50.1	14.1	TREE	6273	87.4 South	1.58%	Gum Tree	Dec 21	N
		6549	326764.5	6241395.7	71.9	235.9	49.8	22.1	TREE	6244	95.7 South	1.81%	Gum Tree	Dec 21	N
		6550	326785.6	6241403.7	67.8	222.5	49.5	18.3	TREE	6221	94.2 South	1.70%	Gum Tree	Dec 21	N
		6552	326766.9	6241417.1	61.3	201.1	49.7	11.6	TREE	6235	75.9 South	1.52%	Gum Tree	Dec 21	N
		6553	326726.0	6241280.1	52.1	170.9	50.6	1.5	SPIRE	6314	195.2 South	1.24%	Elec Pole	Dec 21	N
		6554	326785.7	6241324.7	54.6	179.1	49.8	4.8	SPIRE	6244	169.8 South	1.33%	Pole with light	Dec 21	N
		6555	326824.4	6241353.8	56.5	185.4	49.2	7.3	SPIRE	6199	153.1 South	1.40%	Pole with light	Dec 21	N
		6556	326854.7	6241376.9	57.4	188.3	48.8	8.6	SPIRE	6163	139.8 South	1.44%	Pole with light	Dec 21	N
		6557	326658.2	6241335.4	62.1	203.6	51.2	10.9	TREE	6363	122.7 South	1.49%	Fig Tree	Dec 21	N
		6558	326741.5	6241309.8	57.5	188.6	50.3	7.2	TREE	6291	171.3 South	1.39%	Fig Tree	Dec 21	N
		6559	326874.6	6241388.4	66.2	217.2	48.5	17.7	TREE	6141	134.5 South	1.70%	Gum Tree	Dec 21	N
		6560	326869.4	6241370.4	58.2	190.9	48.6	9.6	BLDG	6151	150.3 South	1.47%	Chimney (with white roof)	Dec 21	N
		6561	326965.5	6241454.0	59.7	195.9	47.3	12.4	TREE	6035	98.0 South	1.56%	Gum Tree	Dec 21	N
		6562	326890.9	6241403.3	59.2	194.2	48.3	10.9	SPIRE	6121	125.0 South	1.51%	Pole with light	Dec 21	N
		6563	326950.0	6241447.3	57.2	187.7	47.5	9.7	SPIRE	6051	100.0 South	1.48%	Pole with light and transformer	Dec 21	N
		6564	326894.2	6241335.3	63.9	209.7	48.5	15.4	TREE	6137	191.0 South	1.64%	Gum Tree	Dec 21	N
		6565	326872.2	6241424.4	61.8	202.6	48.4	13.3	TREE	6132	99.4 South	1.58%	Silky Oak	Dec 21	N
		6566	326928.2	6241351.6	57.8	189.6	48.0	9.8	SPIRE	6100	185.3 South	1.48%	Sewer Vent	Dec 21	N
		6568	327069.3	6241535.4	59.3	194.7	45.8	13.6	TREE	5912	50.2 South	1.61%	Gum Tree	Dec 21	N
		6569	327093.6	6241532.5	55.0	180.4	45.5	9.5	BLDG	5889	60.0 South	1.49%	Roof (brown tile)	Dec 21	N
		6574	326903.1	6241449.2	57.2	187.7	48.0	9.2	BLDG	6096	84.6 South	1.46%	Roof (tiled)	Dec 21	N
		6575	326950.9	6241387.4	62.3	204.4	47.7	14.6	TREE	6068	157.6 South	1.62%	Pine Tree Group	Dec 21	N
		6576	326918.3	6241263.3	55.9	183.4	48.5	7.4	SPIRE	6135	266.9 South	1.41%	Sewer Vent	Dec 21	N
		6577	327012.8	6241334.3	51.8	169.9	47.1	4.7	SPIRE	6024	226.3 South	1.34%	Pole with light	Dec 21	N
		6578	326955.1	6241274.7	56.5	185.4	48.0	8.5	TREE	6096	266.7 South	1.44%	Gum Tree Group	Dec 21	N
		6580	327143.4	6241431.5	52.9	173.6	45.3	7.6	SPIRE	5871	171.1 South	1.43%	Elec Pole	Dec 21	N
		6581	327192.2	6241468.1	54.8	179.8	44.6	10.2	SPIRE	5813	150.1 South	1.52%	Pole with light	Dec 21	N
		6583	327164.0	6241430.3	59.8	196.1	45.1	14.7	TREE	5851	178.2 South	1.65%	Gum Tree Group	Dec 21	N
		6584	327122.2	6241393.3	58.0	190.3	45.7	12.3	TREE	5902	201.5 South	1.57%	Fig Tree	Dec 21	N
		6585	327041.9	6241324.3	56.7	186.0	46.8	9.9	TREE	5999	244.3 South	1.49%	Pine Tree	Dec 21	N
		6590	326990.3	6241477.3	56.9	186.7	46.9	10.0	SPIRE	6004	82.9 South	1.49%	Elec Pole (South cnr)	Dec 21	N
		6592	326621.4	6241269.1	65.1	213.5	51.8	13.2	TREE	6417	175.5 South	1.55%	Gum Tree	Dec 21	N

2021 RWY 25 Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
		6595	326488.9	6241342.3	59.3	194.6	53.1	6.2	SPIRE	6523	67.1 South	1.36%	Pole only	Dec 21	N
		6597	326472.5	6241364.4	59.9	196.5	53.2	6.7	SPIRE	6532	41.2 South	1.37%	Pole with light	Dec 21	N
		6598	326453.4	6241389.6	61.8	202.8	53.4	8.4	SPIRE	6543	11.5 South	1.41%	Pole only	Dec 21	N
		6601	326620.4	6241208.8	52.5	172.2	52.1	0.4	BLDG	6436	232.9 South	1.21%	Roof (brown tile)	Dec 21	N
1	1	8818	330242.5	6242514.3	6.8	22.3	5.9	0.9	SPIRE	2591	31.3 South	92.59%	Gable Marker	Mar 22	Y
		9495	328104.4	6241633.0	48.8	160.2	33.6	15.3	BLDG	4893	256.2 South	1.86%	BUILD/HOUSE/SHED	Dec 21	N
		9508	329432.2	6242159.4	22.2	72.9	16.5	5.7	SPIRE	3469	136.5 South	1.85%	LIGHT POLE	Dec 21	N
		9509	329008.3	6242033.2	22.5	73.8	21.8	0.7	SPIRE	3912	134.7 South	1.26%	ELEC POLE	Dec 21	N
		9520	329463.3	6242245.1	20.2	66.2	15.8	4.4	SPIRE	3415	63.5 South	1.73%	Flood light	Dec 21	N
		9523	329431.6	6242130.9	19.7	64.8	16.6	3.2	SPIRE	3478	163.7 South	1.56%	Flood light	Dec 21	N
		9529	328091.2	6241585.9	49.0	160.8	33.9	15.2	ANTEN	4919	297.5 South	1.85%	Satellite dish atop building	Dec 21	N
		9532	329535.8	6242162.8	20.0	65.7	15.3	4.8	SPIRE	3369	163.3 South	1.81%	Flood light	Dec 21	N
		9535	326365.7	6241007.2	64.8	212.7	55.7	9.1	TREE	6738	352.2 South	1.42%	TREE	Dec 21	N
		9536	326356.8	6241016.9	57.4	188.2	55.8	1.6	TREE	6744	340.3 South	1.24%	TREE	Dec 21	N
45	51	9540	328418.7	6242125.9	42.4	139.2	28.2	14.2	TREE	4449	124.6 North	1.96%	Fig Tree	Nov 21	N
49	56	9541	328410.3	6242111.9	44.0	144.4	28.4	15.6	TREE	4461	113.7 North	2.04%	Tree	Mar 22	N
		9542	329683.9	6242482.6	12.8	42.1	12.5	0.4	SPIRE	3135	100.0 North	1.27%	ELEC POLE	Dec 21	N
	53	9543	328455.6	6241970.7	42.7	140.2	28.3	14.4	TREE	4459	34.7 South	1.97%	Pine Tree	Nov 21	N
44		9594	328523.1	6241805.9	41.8	137.2	28.1	13.7	TREE	4442	211.9 South	1.94%	Tree	Dec 21	N

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 25 Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 25 Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330234.385	6242544.516	253° 10' 55"	6.007 (19.708)	2529.9	2589.9	5.920 (19.423)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94	metres									
							metres	metres		%					
1	1	8818	330242.5	6242514.3	6.8	22.3	5.9	0.9	SPIRE	2591	232.7 South	92.59%	Gable Marker	Mar 22	Y
2	2	2464	330243.6	6242500.4	7.0	23.0	6.0	1.1	SPIRE	2594	386.4 South	27.77%	Unserviceable red and white cone	Mar 22	Y
3	4	1787	330238.0	6242492.3	7.7	25.3	6.1	1.7	SPIRE	2602	271.7 North	15.42%	Railing (lit)	Mar 22	Y
4	5	1670	330200.4	6242481.8	8.0	26.4	6.5	1.5	LINES	2641	354.6 North	4.18%	RWY 25 RESA Southern Safety Barrier (Western End)	Mar 22	Y
5	7	1702	330131.3	6242533.6	8.7	28.5	7.1	1.6	SPIRE	2692	731.6 South	2.73%	RWY 25 Localiser northern Obstruction Light (lit)	Mar 22	Y
6	9	2373	330085.5	6242575.9	8.8	28.8	7.5	1.2	LINES	2723	620.4 South	2.14%	Airside Fence (lit)	Mar 22	N
7	10	5486	329920.5	6242562.7	11.6	38.1	9.5	2.1	TREE	2885	93.7 North	1.92%	TREE	Nov 21	N
8		5948	329956.2	6242422.1	11.3	36.9	9.5	1.7	TREE	2892	275.0 South	1.77%	Shrub	Nov 21	N
9	11	4392	329925.0	6242381.2	14.5	47.6	10.0	4.5	TREE	2933	89.7 South	2.50%	Tree	Mar 22	N
10	12	5488	329896.3	6242427.8	13.2	43.3	10.2	3.0	TREE	2947	276.5 South	2.04%	Tree	Nov 21	N
11	13	5489	329868.5	6242513.3	13.0	42.7	10.2	2.8	TREE	2949	276.9 South	1.97%	Tree	Nov 21	N
12	14	4394	329868.6	6242505.4	12.8	41.8	10.3	2.5	TREE	2951	58.8 South	1.89%	Tree	Nov 21	N
13	15	5437	329888.5	6242428.0	14.0	45.9	10.3	3.7	TREE	2955	200.8 South	2.21%	Tree	Mar 22	N
14		5949	329875.1	6242471.4	12.7	41.6	10.3	2.4	TREE	2955	108.4 South	1.85%	Shrub	Nov 21	N
15	16	4398	329873.6	6242463.7	14.3	46.9	10.3	4.0	TREE	2959	356.5 South	2.27%	Tree	Mar 22	N
16	17	5438	329870.5	6242457.3	15.5	50.9	10.4	5.1	TREE	2963	227.4 North	2.56%	Tree	Mar 22	N
17	18	4400	329852.5	6242488.5	13.0	42.7	10.5	2.5	SPIRE	2972	243.1 South	1.86%	Pole	Nov 21	N
18	19	2494	329837.8	6242522.9	14.4	47.2	10.6	3.8	TREE	2976	517.0 South	2.20%	Tree	Nov 21	N
19	20	5487	329842.0	6242397.7	14.5	47.6	10.9	3.6	TREE	3008	556.5 South	2.05%	TREE	Nov 21	N
20	21	3046	329853.4	6242326.8	14.0	45.8	11.1	2.9	TREE	3018	448.4 North	1.88%	Tree	Nov 21	N
21	22	5853	329765.7	6242469.1	14.2	46.6	11.6	2.6	SPIRE	3060	468.2 North	1.76%	Floodlight	Dec 21	N
22	23	5863	329768.4	6242440.8	14.8	48.5	11.6	3.2	TREE	3066	490.0 North	1.86%	Tree	Nov 21	N
23	24	4402	329751.5	6242478.4	16.1	52.9	11.7	4.4	TREE	3071	43.3 North	2.12%	Tree	Nov 21	N
24	25	4406	329650.4	6242434.2	15.8	51.7	13.0	2.8	TREE	3181	50.2 South	1.67%	Tree	Dec 21	N
25	26	4404	329646.4	6242418.3	17.9	58.6	13.1	4.8	TREE	3189	19.3 South	1.99%	Tree	Nov 21	N
26	27	3993	329632.1	6242409.7	20.5	67.3	13.3	7.2	TREE	3206	19.3 North	2.37%	TREE	Mar 22	N
27	28	4802	329600.3	6242393.7	20.2	66.3	13.7	6.5	TREE	3241	263.1 South	2.19%	Tree	Mar 22	N
28	29	4804	329543.3	6242397.0	20.5	67.4	14.4	6.2	TREE	3294	87.6 North	2.08%	Tree	Nov 21	N
29	30	2496	329512.9	6242460.7	20.0	65.6	14.5	5.5	TREE	3305	98.2 North	1.97%	Tree	Nov 21	N
30	31	3051	329502.4	6242420.2	21.2	69.5	14.8	6.4	TREE	3327	43.4 North	2.07%	Tree	Nov 21	N
31	32	2233	329552.2	6242219.6	20.1	65.8	14.9	5.2	SPIRE	3337	316.6 South	1.89%	Flood Light Pole	Nov 21	N
32	33	5490	329396.0	6242428.5	22.6	74.1	16.0	6.6	TREE	3426	421.0 North	1.99%	Tree	Nov 21	N
33	34	2185	329448.9	6242219.9	22.2	72.8	16.1	6.1	SPIRE	3436	51.0 South	1.92%	Flood Light Pole	Nov 21	N
34	35	2498	329327.0	6242474.8	24.0	78.7	16.6	7.4	TREE	3479	45.0 North	2.03%	Tree	Nov 21	N
35	36	706	329058.5	6242075.8	28.3	92.7	21.1	7.2	TREE	3851	116.3 South	1.77%	Norfolk Tree	Dec 21	N
36	37	2500	328824.4	6241898.9	32.1	105.5	24.4	7.8	TREE	4126	136.9 South	1.71%	Tree	Dec 21	N
37	39	2475	328635.2	6242186.9	32.3	106.0	25.5	6.8	TREE	4224	53.0 South	1.61%	Gum Tree	Dec 21	N
38	40	2502	328693.8	6241921.0	32.5	106.5	25.8	6.7	TREE	4245	3.4 North	1.60%	Tree	Dec 21	N
39	41	5916	328628.2	6241861.4	33.1	108.7	26.7	6.4	TREE	4325	190.2 North	1.57%	Tree	Dec 21	N
40	42	4806	328576.1	6241992.1	33.3	109.4	26.9	6.5	SPIRE	4337	416.6 North	1.57%	Sewer vent	Dec 21	N
41	44	1814	328556.5	6241915.8	39.5	129.5	27.4	12.1	TREE	4378	515.0 North	1.88%	Palm Tree	Dec 21	N
42	45	1815	328560.3	6241895.5	38.3	125.7	27.4	10.9	TREE	4380	124.3 North	1.81%	Palm Tree	Dec 21	N
43	46	3994	328504.0	6241998.3	40.1	131.5	27.7	12.4	TREE	4404	145.2 North	1.88%	Palm Tree	Dec 21	N
44		9594	328523.1	6241805.9	41.8	137.2	28.1	13.7	TREE	4442	170.2 North	1.94%	Tree	Dec 21	N
45	51	9540	328418.7	6242125.9	42.4	139.2	28.2	14.2	TREE	4449	141.3 South	1.96%	Fig Tree	Nov 21	N
46	52	2479	328453.3	6242001.3	43.0	140.9	28.3	14.7	TREE	4452	276.1 South	1.99%	Pine Tree	Nov 21	N
47	54	2249	328430.0	6242054.5	43.1	141.3	28.3	14.7	SPIRE	4459	272.4 South	1.99%	Sewer Vent	Nov 21	N
48	55	3177	328448.4	6241987.0	43.5	142.6	28.4	15.1	TREE	4461	486.9 North	2.01%	Tree	Nov 21	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
49	56	9541	328410.3	6242111.9	44.0	144.4	28.4	15.6	TREE	4461	367.6 North	2.04%	Tree	Mar 22	N
50	57	4814	328102.8	6242017.2	48.5	159.2	32.2	16.3	BLDG	4783	347.1 North	1.94%	Building	Dec 21	N
51		5996	328186.3	6241662.5	49.8	163.3	32.5	17.3	SPIRE	4806	92.7 North	1.98%	Tower Crane	Mar 22	N
52	58	1784	328135.3	6241579.3	50.6	166.2	33.4	17.3	ANTEN	4879	328.9 North	1.95%	Satellite dish atop building	Dec 21	N
53	59	1707	328112.2	6241628.2	51.3	168.3	33.5	17.8	SPIRE	4886	323.4 North	1.98%	Aerial atop building	Nov 21	N
54	60	5827	327973.0	6241761.0	52.7	172.9	34.6	18.1	BLDG	4981	259.1 North	1.96%	Building		N
55	61	324	327829.1	6242101.4	56.5	185.4	35.1	21.4	TREE	5021	202.1 North	2.08%	Tree	Mar 22	N
56		5977	327829.0	6241494.0	56.9	186.7	37.2	19.7	SPIRE	5196	195.5 North	1.96%	Tower Crane		N
57	64	2869	327265.2	6242107.7	66.5	218.2	41.5	25.0	TREE	5559	373.4 North	2.04%	Norfolk Island Pine	Mar 22	N
58	67	3353	327158.1	6241987.4	64.2	210.6	43.2	21.0	TREE	5696	466.7 North	1.88%	Tree	Dec 21	N
59	68	1785	327095.9	6242035.6	69.5	228.0	43.7	25.8	TREE	5741	425.8 North	2.02%	Tree	Mar 22	N
60	69	2041	327151.5	6241816.9	66.7	218.8	43.9	22.8	TREE	5752	460.6 North	1.92%	Norfolk Pine Tree	Mar 22	N
61	70	2039	327148.5	6241822.9	69.3	227.4	43.9	25.4	TREE	5753	408.5 North	2.00%	Norfolk Pine Tree	Mar 22	N
62	71	2341	327127.3	6241853.8	66.0	216.5	44.0	22.0	TREE	5764	269.0 North	1.89%	Gum Tree	Nov 21	N
63	72	2872	327102.0	6241917.8	64.0	210.0	44.1	19.9	TREE	5770	127.3 North	1.83%	Gum Tree	Dec 21	N
64	73	2053	327026.1	6242062.4	77.0	252.6	44.4	32.6	TREE	5800	195.9 North	2.21%	Norfolk Pine Tree	Mar 22	N
65	75	5400	327023.0	6241935.0	69.6	228.2	44.9	24.6	BLDG	5840	409.6 North	1.96%	Apartments	Mar 22	N
66	76	5835	326769.5	6241859.3	74.2	243.4	48.1	26.1	SPIRE	6105	113.5 North	1.94%	Tower Crane	Mar 22	N
67	77	2179	326679.7	6241616.0	85.5	280.5	50.0	35.5	TREE	6261	133.6 North	2.17%	Norfolk Pine Tree	Mar 22	N
68	78	2101	326564.5	6241734.9	77.0	252.6	50.9	26.1	BLDG	6337	286.9 North	1.90%	Church Spire	Mar 22	N
69	79	2882	324864.1	6240063.9	126.1	413.6	76.2	49.8	ANTEN	8448	66.9 North	2.05%	Aerial NE Side Park Plaza Units	Mar 22	N

* Obstacle penetrates by < 0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 25 Takeoff)**

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing					(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m)	(ft)
330234.385	6242544.516	253° 10' 55"	6.007 (19.708)	2529.9	2589.9	5.920	(19.423)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2021 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)	metres	metres		metres	metres	metres	
8		5948	329956.2	6242422.1	11.3	36.9	9.5	1.7	TREE	2892	275.0 South	1.77%	Shrub
14		5949	329875.1	6242471.4	12.7	41.6	10.3	2.4	TREE	2955	108.4 South	1.85%	Shrub
56		5977	327829.0	6241494.0	56.9	186.7	37.2	19.7	SPIRE	5196	195.5 North	1.96%	Tower Crane
51		5996	328186.3	6241662.5	49.8	163.3	32.5	17.3	SPIRE	4806	92.7 North	1.98%	Tower Crane
44		9594	328523.1	6241805.9	41.8	137.2	28.1	13.7	TREE	4442	170.2 North	1.94%	Tree

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2020 Survey)														
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	
					metres	(feet)	metres	metres		metres	metres	metres		metres
	74	1227	326990.9	6242076.0	65.5	214.7	44.8	20.6	ANTEN	5830	490 North	1.84%	MAST/PYLON	
	6	1700	330142.5	6242496.6	8.7	28.5	7.1	1.5	SPIRE	2692	19.3 South	2.71%	RWY 25 Localiser southern Obstruction Light (lit)	
	43	1816	328538.9	6241976.6	34.8	114.0	27.4	7.4	BLDG	4377	53 South	1.61%	BLDG	
	48	1817	328479.6	6242017.7	38.1	125.0	27.9	10.2	BLDG	4422	3.4 North	1.76%	BLDG	
	62	2165	327641.5	6241713.9	58.0	190.3	38.6	19.4	TREE	5312	44.9 South	1.91%	Pine Tree	
	50	2247	328463.5	6241999.2	39.0	128.0	28.2	10.9	SPIRE	4443	9.6 South	1.79%	Elec Pole	
	66	2365	327176.5	6241989.9	61.8	202.8	43.0	18.8	SPIRE	5678	353.9 North	1.81%	Sewer Vent	
	3	2466	330238.2	6242498.7	7.1	23.2	6.0	1.0	SPIRE	2600	45 South	12.00%	Unserviceable red and white cone	
	47	2477	328442.6	6242164.5	36.2	118.8	27.8	8.4	SPIRE	4415	154.7 North	1.66%	Sewer Vent	
	49	2504	328523.1	6241805.9	41.8	137.2	28.1	13.7	TREE	4442	211.9 South	1.94%	Tree	
	63	2517	327450.1	6241801.5	59.4	194.9	40.5	18.9	TREE	5470	94.4 North	1.86%	Tree	
	65	2868	327242.7	6242070.0	61.6	202.0	41.9	19.6	TREE	5591	411.4 North	1.85%	Gum Tree	
	8	5436	330099.3	6242601.5	9.2	30.2	7.3	1.9	TREE	2703	93.7 North	2.90%	Tree	
	38	5914	328753.6	6241886.2	32.3	105.8	25.2	7.0	TREE	4198	201.7 South	1.64%	Tree	
	53	9543	328455.6	6241970.7	42.7	140.2	28.3	14.4	TREE	4459	34.7 South	1.97%	Pine Tree	

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
331925.694	6240225.940	166° 47' 03"	2.180 (7.152)	3962.5	4052.5	4.270 (14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No. Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note: 1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description General description of the respective obstacle.

2021 RWY 16R Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	%				
11	14	1267	331883.2	6239999.1	9.2	30.3	6.8	2.4	BLDG	4264	93.2 West	2.35%	Aerial	Mar 22	Y
8	11	1511	331858.0	6240035.3	7.1	23.4	6.3	0.8	ANTEN	4223	109.5 West	1.68%	Noise Mon. Aerial	Mar 22	Y
10	13	1513	331872.4	6240001.6	8.9	29.3	6.7	2.2	ANTEN	4259	103.2 West	2.26%	Camera on roof	Mar 22	Y
5	7	1515	331949.6	6240123.7	6.0	19.6	5.5	0.5	ANTEN	4158	0.1 West	1.63%	Antenna	Mar 22	Y
		1531	331873.3	6239999.6	8.7	28.6	6.8	1.9	ANTEN	4261	102.8 West	2.13%	Lightning Conductor on Roof	Mar 22	Y
		1533	331867.6	6240002.5	8.5	27.9	6.7	1.8	SPIRE	4257	107.7 West	2.07%	Sewer Vent	Mar 22	Y
		1535	331881.5	6240001.1	8.7	28.4	6.8	1.9	ANTEN	4261	94.5 West	2.10%	Aerial - Wall Mounted	Mar 22	Y
		1539	331871.9	6240007.9	7.9	26.0	6.7	1.3	BLDG	4252	102.3 West	1.83%	Apex of G.I. Roof	Mar 22	Y
		2216	331977.7	6240004.1	8.4	27.6	7.0	1.4	SPIRE	4280	0.0 West	1.82%	Far field monitor mast	Mar 22	Y
		2218	331921.7	6239991.0	8.2	26.8	7.0	1.2	SPIRE	4280	57.6 West	1.71%	Far field monitor mast	Mar 22	Y
9	12	2426	331862.2	6240011.5	8.8	28.8	6.6	2.2	SPIRE	4247	110.9 West	2.32%	Exhaust atop LLER Building	Mar 22	Y
	1	2730	331849.9	6240208.1	4.4	14.4	4.3	0.1	SPIRE	4053	77.9 West	167.28%	ILS Protected Area Bollard	Nov 21	Y
1	2	2738	331970.9	6240235.9	4.5	14.8	4.3	0.2	SPIRE	4053	46.3 East	35.32%	ILS Protected Area Bollard	Nov 21	Y
		2750	331920.4	6240195.8	5.0	16.6	4.6	0.4	SPIRE	4081	12.0 West	2.76%	34L HIAL	Nov 21	Y
		2752	331932.1	6240198.5	5.1	16.6	4.6	0.5	SPIRE	4081	0.1 West	2.86%	34L HIAL	Nov 21	Y
2	3	2754	331943.7	6240201.3	5.1	16.7	4.6	0.5	SPIRE	4081	11.9 East	2.89%	34L HIAL	Mar 22	Y
		2756	331927.1	6240167.1	5.4	17.6	5.0	0.4	SPIRE	4110	12.1 West	1.91%	34L HIAL	Mar 22	Y
3	4	2758	331938.8	6240169.9	5.4	17.7	5.0	0.4	SPIRE	4110	0.1 West	1.96%	34L HIAL	Mar 22	Y
		2760	331950.5	6240172.6	5.4	17.6	5.0	0.4	SPIRE	4110	12.0 East	1.92%	34L HIAL	Mar 22	Y
	5	2762	331933.9	6240138.4	5.8	18.9	5.3	0.4	SPIRE	4140	12.0 West	1.71%	34L HIAL	Nov 21	Y
4	6	2764	331945.5	6240141.2	5.8	19.0	5.3	0.5	SPIRE	4140	0.1 West	1.73%	34L HIAL	Mar 22	Y
		2766	331957.3	6240143.9	5.8	18.9	5.3	0.4	SPIRE	4140	12.0 East	1.71%	34L HIAL	Nov 21	Y
		2768	331940.6	6240109.8	6.1	19.9	5.7	0.4	SPIRE	4169	12.1 West	1.54%	34L HIAL	Nov 21	Y
		2770	331952.3	6240112.5	6.1	19.9	5.7	0.4	SPIRE	4169	0.1 West	1.54%	34L HIAL	Nov 21	Y
6	8	2772	331963.9	6240115.3	6.1	19.9	5.7	0.4	SPIRE	4169	11.9 East	1.54%	34L HIAL	Mar 22	Y
		2774	331947.3	6240081.1	6.4	21.0	6.0	0.4	SPIRE	4198	12.1 West	1.46%	34L HIAL	Nov 21	Y
	9	2776	331959.0	6240083.9	6.4	21.1	6.0	0.4	SPIRE	4198	0.1 West	1.48%	34L HIAL	Nov 21	Y
7	10	2778	331970.7	6240086.6	6.4	21.1	6.0	0.4	SPIRE	4198	12.0 East	1.49%	34L HIAL	Mar 22	Y
		2780	331954.0	6240052.5	6.8	22.3	6.4	0.4	SPIRE	4228	12.1 West	1.44%	34L HIAL	Nov 21	Y
		2782	331965.7	6240055.2	6.8	22.4	6.4	0.4	SPIRE	4228	0.1 West	1.45%	34L HIAL	Nov 21	Y
		2784	331977.4	6240057.9	6.8	22.3	6.4	0.4	SPIRE	4228	11.9 East	1.45%	34L HIAL	Nov 21	Y
		2786	331957.9	6240022.9	7.2	23.5	6.7	0.4	SPIRE	4257	15.0 West	1.41%	34L HIAL	Nov 21	Y
		2788	331972.3	6240026.8	7.4	24.4	6.7	0.7	SPIRE	4257	0.1 West	1.55%	34L HIAL	Nov 21	Y
		2790	331987.1	6240029.8	7.2	23.5	6.7	0.4	SPIRE	4257	14.9 East	1.41%	34L HIAL	Nov 21	Y
		2792	331979.2	6239997.5	7.9	25.8	7.1	0.8	SPIRE	4287	0.2 West	1.53%	34L HIAL	Nov 21	Y
		2794	331986.0	6239968.3	8.4	27.5	7.4	0.9	SPIRE	4317	0.2 West	1.55%	34L HIAL	Nov 21	Y
		2796	331993.1	6239938.7	8.5	28.0	7.8	0.7	SPIRE	4348	0.0 West	1.45%	34L HIAL	Nov 21	Y
		2798	331999.8	6239909.8	8.5	28.0	8.2	0.4	SPIRE	4377	0.1 West	1.32%	34L HIAL	Nov 21	Y
		2808	331991.6	6239943.7	7.9	25.9	7.7	0.1	LINES	4342	0.3 West	1.25%	Guardrail	Nov 21	Y
		2810	331992.3	6239943.9	7.9	25.8	7.7	0.1	LINES	4342	0.3 East	1.24%	Guardrail	Nov 21	Y
		2812	331881.1	6239994.4	8.5	28.0	6.9	1.7	SPIRE	4268	96.4 West	1.98%	RADAR Video Surveillance Camera (lightning rod)	Mar 22	Y
		4836	332046.7	6239941.9	8.3	27.1	7.9	0.3	TREE	4357	52.9 East	1.31%	Shrub atop rockwall at southern end of RWY 16R/34L	Nov 21	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
331925.694	6240225.940	166° 47' 03"	2.180 (7.152)	3962.5	4052.5	4.270 (14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

2021 RWY 16R Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		%					
1	2	2738	331970.9	6240235.9	4.5	14.8	4.3	0.2	SPIRE	4053	93.2 West	35.32%	ILS Protected Area Bollard	Nov 21	Y
2	3	2754	331943.7	6240201.3	5.1	16.7	4.6	0.5	SPIRE	4081	109.5 West	2.89%	34L HIAL	Mar 22	Y
3	4	2758	331938.8	6240169.9	5.4	17.7	5.0	0.4	SPIRE	4110	103.2 West	1.96%	34L HIAL	Mar 22	Y
4	6	2764	331945.5	6240141.2	5.8	19.0	5.3	0.5	SPIRE	4140	0.1 West	1.73%	34L HIAL	Mar 22	Y
5	7	1515	331949.6	6240123.7	6.0	19.6	5.5	0.5	ANTEN	4158	102.8 West	1.63%	Antenna	Mar 22	Y
6	8	2772	331963.9	6240115.3	6.1	19.9	5.7	0.4	SPIRE	4169	107.7 West	1.54%	34L HIAL	Mar 22	Y
7	10	2778	331970.7	6240086.6	6.4	21.1	6.0	0.4	SPIRE	4198	94.5 West	1.49%	34L HIAL	Mar 22	Y
8	11	1511	331858.0	6240035.3	7.1	23.4	6.3	0.8	ANTEN	4223	102.3 West	1.68%	Noise Mon. Aerial	Mar 22	Y
9	12	2426	331862.2	6240011.5	8.8	28.8	6.6	2.2	SPIRE	4247	0.0 West	2.32%	Exhaust atop LLER Building	Mar 22	Y
10	13	1513	331872.4	6240001.6	8.9	29.3	6.7	2.2	ANTEN	4259	57.6 West	2.26%	Camera on roof	Mar 22	Y
11	14	1267	331883.2	6239999.1	9.2	30.3	6.8	2.4	BLDG	4264	110.9 West	2.35%	Aerial	Mar 22	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16R Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16R Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
331925.694	6240225.940	166° 47' 03"	2.180 (7.152)	3962.5	4052.5	4.270 (14.009)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2021 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)							
			MGA94										

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2020 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)							
			MGA94										
	1	2730	331849.9	6240208.1	4.4	14.4	4.3	0.1	SPIRE	4053	77.9 West	167.27%	ILS Protected Area Bollard
	5	2762	331933.9	6240138.4	5.8	18.9	5.3	0.4	SPIRE	4140	12 West	1.71%	34L HIAL
	9	2776	331959.0	6240083.9	6.4	21.1	6.0	0.4	SPIRE	4198	0.1 West	1.48%	34L HIAL

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180 (7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		396	330513.3	6245438.2	23.4	76.6	17.2	6.1	TREE	5307	183.3 West	1.69%	Palm tree	Dec 21	N
		398	330509.6	6245442.4	23.2	76.1	17.3	5.9	TREE	5312	186.1 West	1.67%	Palm tree	Dec 21	N
		400	330718.5	6245565.1	28.5	93.4	18.2	10.3	TREE	5384	45.4 East	1.97%	Palm tree	Dec 21	N
		440	329857.2	6248346.7	55.7	182.7	53.0	2.7	TREE	8289	157.1 West	1.26%	Gum Tree	Dec 21	N
		444	329811.5	6247821.9	58.0	190.3	47.0	11.0	BLDG	7788	321.6 West	1.49%	Building	Dec 21	N
		482	331039.8	6244413.8	5.3	17.4	3.8	1.5	SPIRE	4190	95.0 East	2.29%	Light Pole	Nov 21	Y
		484	331024.2	6244410.1	5.2	17.2	3.8	1.4	SPIRE	4189	79.0 East	2.24%	Light Pole	Nov 21	Y
		486	331009.3	6244406.7	5.3	17.3	3.8	1.5	SPIRE	4190	63.7 East	2.26%	Light Pole	Nov 21	Y
		488	330991.2	6244402.4	5.2	17.2	3.8	1.4	SPIRE	4189	45.0 East	2.24%	Light Pole	Nov 21	Y
		490	330976.8	6244399.0	5.2	17.2	3.8	1.4	SPIRE	4190	30.2 East	2.24%	Light Pole	Nov 21	Y
		492	330961.7	6244395.5	5.3	17.2	3.8	1.4	SPIRE	4189	14.7 East	2.24%	Light Pole	Nov 21	Y
		494	330945.1	6244391.6	5.2	17.2	3.8	1.4	SPIRE	4190	2.3 West	2.23%	Light Pole	Nov 21	Y
		496	330930.1	6244388.1	5.2	17.1	3.8	1.4	SPIRE	4190	17.7 West	2.21%	Light Pole	Nov 21	Y
		498	330914.3	6244384.3	5.3	17.2	3.8	1.4	SPIRE	4189	33.9 West	2.24%	Light Pole	Nov 21	Y
		500	330899.7	6244380.9	5.3	17.4	3.8	1.5	SPIRE	4190	48.9 West	2.27%	Light Pole	Nov 21	Y
		502	330882.3	6244376.8	5.3	17.3	3.8	1.4	SPIRE	4189	66.8 West	2.26%	Light Pole	Nov 21	Y
		504	330867.8	6244373.4	5.3	17.5	3.8	1.5	SPIRE	4190	81.7 West	2.29%	Light Pole	Nov 21	Y
		506	330852.0	6244369.7	5.3	17.3	3.8	1.5	SPIRE	4189	97.9 West	2.26%	Light Pole	Nov 21	Y
		526	331044.4	6244452.6	6.9	22.5	4.3	2.6	SPIRE	4226	108.3 East	2.69%	Light Pole	Nov 21	Y
		528	331032.6	6244449.8	6.9	22.7	4.3	2.7	SPIRE	4226	96.2 East	2.73%	Light Pole	Nov 21	Y
		530	331020.8	6244447.0	6.9	22.6	4.3	2.6	SPIRE	4226	84.1 East	2.72%	Light Pole	Nov 21	Y
		532	331008.7	6244444.2	6.9	22.5	4.3	2.6	SPIRE	4226	71.7 East	2.69%	Light Pole	Nov 21	Y
		534	330996.9	6244441.5	6.9	22.5	4.3	2.6	SPIRE	4226	59.6 East	2.69%	Light Pole	Nov 21	Y
		536	330985.0	6244438.7	6.8	22.5	4.3	2.6	SPIRE	4226	47.3 East	2.68%	Light Pole	Nov 21	Y
		538	330973.2	6244435.9	6.9	22.6	4.3	2.6	SPIRE	4226	35.2 East	2.71%	Light Pole	Nov 21	Y
		540	330961.4	6244433.1	6.9	22.5	4.3	2.6	SPIRE	4226	23.1 East	2.69%	Light Pole	Nov 21	Y
		542	330949.2	6244430.3	6.9	22.5	4.3	2.6	SPIRE	4226	10.5 East	2.69%	Light Pole	Nov 21	Y
		544	330937.6	6244427.5	6.8	22.3	4.3	2.5	SPIRE	4226	1.4 West	2.66%	Light Pole	Nov 21	Y
		546	330925.6	6244424.7	6.9	22.6	4.3	2.6	SPIRE	4226	13.7 West	2.70%	Light Pole	Nov 21	Y
		548	330913.8	6244421.9	6.8	22.3	4.3	2.5	SPIRE	4226	25.9 West	2.66%	Light Pole	Nov 21	Y
		550	330901.9	6244419.1	6.9	22.5	4.3	2.6	SPIRE	4226	38.1 West	2.70%	Light Pole	Nov 21	Y
		552	330890.1	6244416.3	6.9	22.6	4.3	2.6	SPIRE	4226	50.1 West	2.71%	Light Pole	Nov 21	Y
		554	330878.1	6244413.5	6.9	22.6	4.3	2.6	SPIRE	4226	62.5 West	2.71%	Light Pole	Nov 21	Y
		556	330866.5	6244410.7	6.9	22.5	4.3	2.6	SPIRE	4226	74.4 West	2.69%	Light Pole	Nov 21	Y
		558	330854.8	6244407.9	6.8	22.4	4.3	2.6	SPIRE	4226	86.5 West	2.68%	Light Pole	Nov 21	Y
		560	330842.6	6244405.2	6.9	22.6	4.3	2.6	SPIRE	4226	98.9 West	2.71%	Light Pole	Nov 21	Y
		562	330830.9	6244402.4	6.9	22.6	4.3	2.6	SPIRE	4226	111.0 West	2.71%	Light Pole	Nov 21	Y
		574	330948.0	6244391.3	4.2	13.7	3.8	0.4	LINES	4189	0.5 East	1.48%	Wire line atop RWY 16R Blast Fence	Nov 21	Y
		576	331050.5	6244415.3	4.2	13.8	3.8	0.4	LINES	4189	105.8 East	1.49%	Wire line atop RWY 16R Blast Fence	Nov 21	Y
		582	330853.4	6244370.8	4.6	15.3	3.8	0.8	SPIRE	4190	96.3 West	1.79%	Road Sign	Nov 21	Y
		584	330911.2	6244384.0	4.7	15.4	3.8	0.9	SPIRE	4190	37.0 West	1.84%	Road Sign	Nov 21	Y
		738	330136.5	6247824.1	50.6	166.1	46.1	4.5	ANTEN	7716	4.7 West	1.32%	Mobile Phone Tower	Dec 21	N
		1208	330760.1	6245023.3	12.8	42.1	11.7	1.1	SPIRE	4847	37.9 West	1.34%	FLOOD LIGHT	Nov 21	N
		1214	330986.3	6244869.2	12.2	39.9	9.3	2.9	SPIRE	4645	147.0 East	1.69%	LIGHT POLE	Nov 21	N
36	61	1226	330607.5	6245214.0	28.2	92.5	14.4	13.8	TREE	5067	142.9 West	2.56%	TREE	Mar 22	N
	59	1229	330579.5	6245117.6	22.1	72.4	13.3	8.8	SPIRE	4980	192.2 West	2.14%	LIGHT POLE	Nov 21	N
		1309	330863.7	6244394.7	5.4	17.7	4.1	1.3	SPIRE	4211	80.8 West	2.02%	Perimeter fence	Nov 21	Y
		1310	330910.4	6244405.6	5.4	17.7	4.1	1.3	SPIRE	4211	32.9 West	2.02%	Perimeter fence	Nov 21	Y
		1311	330950.9	6244415.1	5.4	17.7	4.1	1.3	SPIRE	4211	8.8 East	2.02%	Perimeter fence	Nov 21	Y
		1312	330978.9	6244421.7	5.4	17.7	4.1	1.3	SPIRE	4211	37.5 East	2.02%	Perimeter fence	Nov 21	Y

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					metres	(feet)									
					MGA94					metres	(feet)	metres			
		1313	331006.8	6244428.2	5.4	17.7	4.1	1.3	SPIRE	4211	66.2 East	2.02%	Perimeter fence	Nov 21	Y
		1314	331041.8	6244436.4	5.4	17.7	4.1	1.3	SPIRE	4211	102.1 East	2.02%	Perimeter fence	Nov 21	Y
		1318	330776.3	6245249.4	23.5	77.2	14.3	9.2	ANTEN	5063	29.5 East	2.11%	Mobile Phone Tower	Dec 21	N
		1320	330752.2	6245226.8	20.1	66.0	14.1	6.0	BLDG	5047	0.9 East	1.80%	Plant room atop building	Nov 21	N
		1321	330897.6	6245339.7	22.4	73.3	15.0	7.3	BLDG	5123	168.2 East	1.88%	Building	Dec 21	N
		1322	330917.0	6245341.8	22.4	73.3	15.0	7.4	BLDG	5121	187.6 East	1.89%	Building	Dec 21	N
		1323	330703.8	6245190.9	19.8	64.8	13.8	5.9	BLDG	5023	54.5 West	1.81%	Apex of building	Nov 21	N
		1724	330870.7	6244488.6	6.8	22.4	5.2	1.7	SPIRE	4301	52.6 West	1.87%	Fence Pole	Nov 21	Y
		1740	330776.8	6245476.5	25.7	84.4	17.0	8.8	SPIRE	5284	81.9 East	1.91%	Light Pole	Dec 21	N
52	77	1798	330653.4	6247743.0	63.0	206.7	43.8	19.2	TREE	7519	480.0 East	1.75%	Tree - Norfolk	Mar 22	N
		1990	329684.6	6247698.7	66.4	217.7	45.9	20.4	TREE	7697	473.3 West	1.76%	Tree	Nov 21	N
		1991	329770.8	6247708.9	66.5	218.2	45.8	20.7	TREE	7687	387.1 West	1.77%	Gum Tree	Nov 21	N
	49	2100	330692.7	6244950.4	17.9	58.7	11.0	6.8	SPIRE	4791	120.2 West	2.13%	Vent	Nov 21	N
	51	2102	330677.9	6244957.1	18.1	59.3	11.2	6.9	SPIRE	4801	133.1 West	2.12%	Vent	Dec 21	N
		2104	330667.8	6244968.7	18.0	59.1	11.3	6.7	SPIRE	4815	140.3 West	2.08%	Vent	Nov 21	N
		2106	330658.1	6244979.9	18.1	59.5	11.5	6.7	SPIRE	4828	147.2 West	2.06%	Vent	Nov 21	N
		2108	330648.5	6244990.9	18.4	60.4	11.6	6.8	SPIRE	4841	154.0 West	2.06%	Vent	Nov 21	N
		2110	330638.2	6245002.9	18.5	60.8	11.8	6.7	SPIRE	4855	161.3 West	2.04%	Vent	Nov 21	N
		2112	330628.0	6245014.6	18.8	61.8	12.0	6.9	SPIRE	4868	168.6 West	2.04%	Vent	Nov 21	N
		2114	330619.3	6245024.6	19.0	62.4	12.1	6.9	SPIRE	4880	174.7 West	2.03%	Vent	Dec 21	N
		2116	330608.8	6245036.6	19.4	63.5	12.3	7.1	SPIRE	4894	182.2 West	2.04%	Vent	Dec 21	N
		2136	330598.7	6245048.3	19.6	64.2	12.4	7.1	SPIRE	4908	189.3 West	2.03%	Vent	Dec 21	N
		2138	330588.6	6245059.9	19.8	65.1	12.6	7.2	SPIRE	4922	196.6 West	2.03%	Vent	Dec 21	N
		2146	330583.1	6245134.5	22.2	73.0	13.5	8.7	SPIRE	4996	184.8 West	2.13%	Street light	Nov 21	N
		2148	330631.7	6245150.8	22.3	73.0	13.6	8.7	SPIRE	5000	133.8 West	2.12%	Street light	Dec 21	N
		2150	330676.1	6245072.6	18.4	60.5	12.5	5.9	SPIRE	4914	108.4 West	1.89%	Street light	Dec 21	N
		2516	330626.4	6245527.9	30.2	99.1	18.0	12.2	TREE	5369	52.8 West	2.13%	Tree	Nov 21	N
		2518	330878.0	6245745.5	28.9	94.7	19.8	9.1	TREE	5523	241.9 East	1.82%	Tree	Dec 21	N
		2520	330871.2	6245111.8	18.0	59.1	12.4	5.6	SPIRE	4908	90.4 East	1.85%	Flood Light	Dec 21	N
	7	2578	330895.2	6244363.8	5.9	19.2	3.6	2.2	SPIRE	4174	57.2 West	3.03%	Far field monitor mast	Nov 21	Y
4	8	2580	330950.7	6244376.9	6.0	19.5	3.6	2.3	SPIRE	4174	0.2 West	3.10%	Far Field monitor mast (lit)	Mar 22	Y
			2966	330965.8	6244260.6	4.2	13.8	2.2	2.0	SPIRE	4057	12.0 West	43.10%	HAL	Mar 22
		2967	330989.3	6244266.1	4.2	13.8	2.2	2.0	SPIRE	4057	12.1 East	42.82%	HAL	Mar 22	Y
1	2	2968	330977.6	6244263.3	4.2	13.9	2.2	2.0	SPIRE	4057	0.0 East	44.02%	HAL	Mar 22	Y
			2969	330959.1	6244289.7	4.7	15.5	2.6	2.1	SPIRE	4087	12.0 West	7.34%	HAL	Mar 22
		2970	330970.8	6244292.5	4.7	15.5	2.6	2.1	SPIRE	4087	0.0 East	7.35%	HAL	Mar 22	Y
2	4	2971	330982.4	6244295.2	4.7	15.5	2.6	2.1	SPIRE	4087	12.1 East	7.38%	HAL	Mar 22	Y
			2975	330957.0	6244350.9	5.7	18.8	3.3	2.4	SPIRE	4147	0.0 East	3.74%	HAL	Mar 22
	5	2976	330945.3	6244348.3	5.7	18.8	3.3	2.4	SPIRE	4147	12.0 West	3.74%	HAL	Mar 22	Y
3	6	2977	330968.6	6244353.7	5.7	18.8	3.3	2.4	SPIRE	4147	12.0 East	3.75%	HAL	Mar 22	Y
			2978	330964.1	6244385.9	6.2	20.2	3.7	2.4	SPIRE	4180	14.9 East	3.12%	HAL	Nov 21
		2979	330934.9	6244379.1	6.2	20.3	3.7	2.5	SPIRE	4180	15.1 West	3.15%	HAL	Nov 21	Y
5	9	2980	330949.7	6244382.2	6.5	21.3	3.7	2.8	SPIRE	4179	0.0 East	3.39%	HAL	Mar 22	Y
7	13	2981	330942.2	6244413.9	7.1	23.3	4.1	3.0	SPIRE	4212	0.0 East	3.08%	HAL	Mar 22	Y
9	15	2982	330927.6	6244476.3	8.0	26.2	4.9	3.1	SPIRE	4276	0.0 East	2.60%	HAL	Nov 21	N
10	16	2983	330921.2	6244503.0	8.5	27.9	5.2	3.3	SPIRE	4303	0.0 West	2.52%	HAL	Nov 21	Y
11	17	2984	330914.9	6244530.0	9.0	29.6	5.5	3.5	SPIRE	4331	0.0 West	2.45%	HAL	Nov 21	Y
12	18	2985	330908.6	6244557.0	9.4	31.0	5.9	3.6	SPIRE	4359	0.0 West	2.37%	HAL	Nov 21	Y
13	19	2986	330902.3	6244584.1	9.9	32.5	6.2	3.7	SPIRE	4387	0.0 East	2.31%	HAL	Nov 21	Y
16	22	2987	330895.9	6244611.0	10.3	33.8	6.5	3.8	SPIRE	4414	0.0 West	2.24%	HAL	Nov 21	Y
22	28	2988	330889.6	6244638.0	10.7	35.2	6.9	3.9	SPIRE	4442	0.1 East	2.19%	HAL	Nov 21	Y

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					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
24	30	2989	330883.3	6244664.7	11.2	36.8	7.2	4.0	SPIRE	4470	0.0 East	2.17%	HIAL	Nov 21	Y
25	31	2990	330876.8	6244691.9	11.7	38.5	7.5	4.2	SPIRE	4498	0.1 West	2.15%	HIAL	Nov 21	Y
28	34	2991	330870.6	6244719.0	12.3	40.2	7.9	4.4	SPIRE	4525	0.0 East	2.13%	HIAL	Nov 21	Y
31	37	2992	330864.2	6244746.0	12.7	41.7	8.2	4.5	SPIRE	4553	0.0 West	2.10%	HIAL	Nov 21	Y
	38	2993	330857.9	6244773.0	13.1	43.1	8.5	4.6	SPIRE	4581	0.0 East	2.07%	HIAL	Nov 21	Y
	43	2994	330851.5	6244800.0	13.7	44.9	8.9	4.8	SPIRE	4608	0.0 West	2.07%	HIAL	Nov 21	Y
		2995	330845.2	6244827.0	14.0	46.1	9.2	4.9	SPIRE	4636	0.0 East	2.03%	HIAL	Nov 21	Y
		2996	330838.9	6244853.7	14.5	47.7	9.5	5.0	SPIRE	4664	0.0 West	2.02%	HIAL	Nov 21	Y
		2997	330832.4	6244881.5	15.0	49.2	9.9	5.1	SPIRE	4692	0.1 East	2.00%	HIAL	Nov 21	N
8	14	3000	330935.0	6244444.7	7.5	24.6	4.5	3.0	SPIRE	4244	0.0 East	2.78%	HIAL	Nov 21	Y
		3005	330937.2	6244445.6	7.3	23.9	4.5	2.8	SPIRE	4244	2.3 East	2.67%	HIAL	Nov 21	Y
		3006	330932.8	6244444.6	7.2	23.8	4.5	2.8	SPIRE	4244	2.2 West	2.65%	HIAL	Nov 21	Y
48	72	3032	330596.2	6245406.3	31.0	101.7	16.6	14.4	TREE	5257	109.9 West	2.39%	Tree	Mar 22	N
46	70	3033	330721.1	6245402.1	29.1	95.6	16.2	12.9	TREE	5224	10.7 East	2.30%	Palm Tree	Mar 22	N
		3035	330887.5	6245486.7	28.5	93.5	16.8	11.7	TREE	5269	192.0 East	2.16%	Palm Tree	Nov 21	N
		3062	331022.7	6244273.1	2.6	8.4	2.2	0.3	SPIRE	4056	46.2 East	9.96%	frangible marker	Nov 21	Y
		3063	330933.4	6244249.2	2.6	8.7	2.2	0.5	SPIRE	4054	46.2 West	45.08%	frangible marker	Nov 21	Y
		3064	331016.5	6244298.1	2.8	9.2	2.5	0.3	SPIRE	4082	45.9 East	2.09%	frangible marker	Nov 21	Y
		3065	330926.8	6244276.5	2.5	8.3	2.5	0.0	SPIRE	4082	46.4 West	1.21%	frangible marker	Nov 21	Y
		3075	330673.2	6245085.8	18.3	59.9	12.7	5.6	SPIRE	4928	108.2 West	1.84%	Street light	Dec 21	N
		3076	330652.3	6245098.9	18.8	61.5	12.9	5.9	SPIRE	4945	125.6 West	1.86%	Street light	Dec 21	N
34	57	3077	330670.1	6245100.1	24.1	79.1	12.9	11.3	TREE	4942	108.0 West	2.47%	Palm Tree	Mar 22	N
		3078	330643.9	6245023.5	19.4	63.6	12.0	7.4	BLDG	4874	151.0 West	2.10%	Vent atop building	Nov 21	N
		3079	330590.3	6245177.4	22.6	74.0	14.0	8.6	BLDG	5036	168.0 West	2.07%	Lightning rod atop chimney	Dec 21	N
		3081	330632.4	6245517.8	30.0	98.5	17.8	12.2	TREE	5357	49.2 West	2.13%	Tree	Nov 21	N
		3082	330641.8	6245632.3	29.8	97.9	19.2	10.7	TREE	5467	13.9 West	1.96%	Tree	Dec 21	N
		3083	330628.8	6245551.7	29.6	97.1	18.2	11.4	TREE	5391	45.0 West	2.05%	Tree	Nov 21	N
		3084	330452.2	6245705.6	24.1	79.1	20.5	3.6	TREE	5581	181.7 West	1.43%	Palm Tree	Dec 21	N
		3193	329429.6	6248458.5	70.5	231.3	55.5	15.0	TREE	8495	547.9 West	1.54%	Tree	Dec 21	N
		3194	329623.5	6248315.2	66.7	218.8	53.3	13.4	TREE	8311	391.9 West	1.51%	Tree	Dec 21	N
		3195	329912.1	6248103.0	66.2	217.2	50.0	16.2	TREE	8039	159.4 West	1.61%	Tree	Dec 21	N
		3402	331021.3	6244528.9	7.3	23.8	5.2	2.0	SPIRE	4306	103.3 East	2.00%	Lightpole	Nov 21	Y
	46	3411	330743.5	6244796.1	15.2	50.0	9.1	6.1	SPIRE	4629	106.0 West	2.26%	Traffic sign	Nov 21	Y
		3420	330703.3	6244960.1	17.7	57.9	11.1	6.5	SPIRE	4798	107.7 West	2.07%	Vent	Nov 21	N
		3422	330953.5	6245050.4	17.4	57.1	11.5	5.9	BLDG	4829	156.5 East	1.96%	Container	Nov 21	N
	58	3423	330624.8	6245125.9	22.4	73.4	13.3	9.1	TREE	4978	146.2 West	2.18%	Tree	Nov 21	N
		3424	330608.5	6245148.8	21.4	70.3	13.6	7.8	SPIRE	5004	156.8 West	2.02%	Light pole	Dec 21	N
		3425	330633.7	6245139.6	21.2	69.7	13.4	7.8	SPIRE	4989	134.4 West	2.04%	Power pole	Dec 21	N
		3428	330766.9	6245272.0	20.9	68.5	14.6	6.3	SPIRE	5087	25.5 East	1.81%	Flag	Dec 21	N
		3429	330681.5	6245293.2	25.3	83.0	15.1	10.2	TREE	5128	52.7 West	2.15%	Tree	Nov 21	N
37	62	3430	330688.9	6245311.7	28.0	92.0	15.3	12.8	TREE	5144	41.3 West	2.37%	Tree	Mar 22	N
39	64	3431	330646.2	6245318.9	27.5	90.3	15.5	12.0	TREE	5161	81.2 West	2.29%	Tree	Nov 21	N
40	65	3432	330641.4	6245335.1	26.5	86.9	15.7	10.8	TREE	5177	82.3 West	2.16%	Tree	Nov 21	N
42	67	3433	330626.3	6245359.5	29.3	96.1	16.0	13.3	TREE	5205	91.3 West	2.35%	Tree	Mar 22	N
		3434	330877.5	6245376.8	25.6	84.1	15.5	10.1	TREE	5164	157.2 East	2.11%	Tree	Nov 21	N
43	68	3435	330656.4	6245371.5	27.2	89.1	16.1	11.1	TREE	5209	59.3 West	2.16%	Tree	Nov 21	N
45	69	3436	330626.5	6245368.0	29.0	95.0	16.1	12.9	TREE	5213	89.2 West	2.31%	Tree	Mar 22	N
		3438	330529.5	6247965.7	60.7	199.1	46.7	14.0	TREE	7764	410.2 East	1.58%	Tree	Dec 21	N
		3439	329866.2	6247869.0	60.7	199.0	47.4	13.2	TREE	7821	257.6 West	1.55%	Tree	Dec 21	N
		3440	330171.3	6247933.8	57.7	189.3	47.3	10.4	TREE	7815	54.3 East	1.48%	Tree	Dec 21	N
		3441	329613.7	6247784.5	61.8	202.8	47.1	14.7	SPIRE	7797	522.7 West	1.59%	Sewer Vent	Dec 21	N

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
54	79	3442	330465.7	6247994.9	48.0	157.5	47.2	0.8	BLDG	7807	354.8 East	1.22%	Newington College	Dec 21	N
		3443	329618.2	6247740.2	69.5	227.9	46.6	22.9	TREE	7753	528.5 West	1.82%	Gum Tree Group	Mar 22	N
		3445	329540.2	6247980.4	66.7	218.7	49.6	17.1	BLDG	8004	549.5 West	1.63%	Round Dark Chimney on Building	Dec 21	N
		3446	330353.0	6248024.8	58.7	192.4	47.9	10.8	TREE	7862	252.0 East	1.48%	Tree	Dec 21	N
		3447	329877.6	6247736.9	58.6	192.3	45.8	12.8	BLDG	7690	276.7 West	1.55%	Roof of Tower	Dec 21	N
53	78	3448	330577.7	6248115.6	49.9	163.6	48.3	1.5	TREE	7899	491.4 East	1.24%	Tree	Dec 21	N
		3449	330032.1	6247615.7	64.8	212.5	44.0	20.8	ANTEN	7537	154.0 West	1.80%	Lightning Rod	Mar 22	N
		3454	329658.6	6247951.6	61.1	200.5	48.9	12.2	BLDG	7949	440.8 West	1.51%	Petersham Town Hall	Dec 21	N
55	80	3459	329612.2	6247971.2	70.3	230.7	49.3	21.0	SPIRE	7979	481.5 West	1.74%	Flag Pole on Clock Tower	Mar 22	N
		3460	329833.6	6247941.2	52.0	170.6	48.3	3.6	BLDG	7899	272.8 West	1.29%	Roof	Dec 21	N
		3461	329692.1	6247829.4	61.2	200.8	47.4	13.8	SPIRE	7823	436.2 West	1.57%	Flag Pole on Building	Dec 21	N
		3463	329702.0	6247877.1	62.1	203.7	48.0	14.1	ANTEN	7867	415.6 West	1.57%	Cross on E end of Church	Dec 21	N
		3465	329759.7	6247860.4	61.7	202.3	47.6	14.1	TREE	7837	363.2 West	1.57%	Palm Tree	Dec 21	N
		3467	329758.4	6247883.4	57.0	187.0	47.9	9.1	SPIRE	7860	359.3 West	1.44%	Sewer Vent	Dec 21	N
		3473	330078.8	6247798.4	55.0	180.4	46.0	9.0	SPIRE	7704	66.7 West	1.45%	Church Spire	Dec 21	N
		3477	330603.3	6247717.9	54.6	179.2	43.6	11.0	BLDG	7506	425.5 East	1.52%	Building	Dec 21	N
		3479	330631.1	6247702.9	54.4	178.5	43.4	11.0	BLDG	7485	449.1 East	1.52%	Building	Dec 21	N
		3481	330492.0	6247867.0	58.9	193.4	45.7	13.3	TREE	7676	351.1 East	1.57%	Camphorlaurel Trees	Dec 21	N
		3487	330646.2	6245162.5	22.2	72.9	13.7	8.6	SPIRE	5008	117.0 West	2.10%	Light Pole	Dec 21	N
		3488	329885.8	6248194.9	61.8	202.8	51.2	10.7	TREE	8134	164.0 West	1.46%	Tree	Dec 21	N
		3489	330669.8	6245162.9	23.2	76.2	13.6	9.6	SPIRE	5003	93.9 West	2.21%	Elec Pole	Dec 21	N
		3491	329717.4	6247820.3	62.0	203.4	47.2	14.8	ANTEN	7808	413.6 West	1.59%	Flag Pole on Building	Dec 21	N
		3492	329699.2	6248312.4	56.0	183.8	53.0	3.0	BLDG	8291	318.7 West	1.27%	Apartment	Dec 21	N
		3493	329636.5	6248203.9	65.1	213.6	52.0	13.1	ANTEN	8200	404.7 West	1.52%	Whip Antenna	Dec 21	N
		3494	329564.3	6248374.3	61.5	201.8	54.1	7.4	TREE	8382	436.0 West	1.37%	Tree	Dec 21	N
		3496	329739.5	6248608.1	58.0	190.3	56.4	1.6	BLDG	8570	212.0 West	1.24%	Petersham College	Dec 21	N
		3497	329752.8	6247633.5	55.9	183.2	45.0	10.9	TREE	7618	421.9 West	1.51%	Palm Tree	Dec 21	N
		3509	330856.7	6245526.7	29.5	96.9	17.3	12.2	SPIRE	5315	171.1 East	2.17%	Sewer Vent	Nov 21	N
		3511	331048.0	6244437.0	6.8	22.3	4.1	2.7	SPIRE	4210	108.3 East	2.92%	Light Pole	Nov 21	Y
		3513	331036.1	6244434.2	6.8	22.4	4.1	2.7	SPIRE	4210	96.1 East	2.94%	Light Pole	Nov 21	Y
		3515	331024.4	6244431.5	6.7	22.1	4.1	2.7	SPIRE	4210	84.0 East	2.89%	Light Pole	Nov 21	Y
	10	3517	331012.4	6244428.6	6.8	22.2	4.1	2.7	SPIRE	4210	71.7 East	2.92%	Light Pole	Nov 21	Y
		3519	331000.6	6244425.8	6.8	22.4	4.1	2.7	SPIRE	4210	59.6 East	2.94%	Light Pole	Nov 21	Y
		3521	330988.9	6244423.1	6.8	22.3	4.1	2.7	SPIRE	4210	47.5 East	2.92%	Light Pole	Nov 21	Y
		3523	330976.8	6244420.3	6.8	22.2	4.1	2.7	SPIRE	4210	35.2 East	2.90%	Light Pole	Nov 21	Y
		3525	330964.9	6244417.5	6.7	22.1	4.1	2.7	SPIRE	4210	22.9 East	2.88%	Light Pole	Nov 21	Y
		3527	330952.9	6244414.7	6.8	22.3	4.1	2.7	SPIRE	4210	10.6 East	2.92%	Light Pole	Nov 21	Y
		3529	330940.8	6244411.9	6.7	22.1	4.1	2.7	SPIRE	4210	1.8 West	2.90%	Light Pole	Nov 21	Y
		3531	330929.3	6244409.2	6.8	22.3	4.1	2.7	SPIRE	4210	13.6 West	2.92%	Light Pole	Nov 21	Y
		3533	330917.6	6244406.4	6.8	22.3	4.1	2.7	SPIRE	4210	25.7 West	2.92%	Light Pole	Nov 21	Y
		3535	330905.4	6244403.5	6.8	22.2	4.1	2.7	SPIRE	4210	38.3 West	2.90%	Light Pole	Nov 21	Y
		3537	330894.1	6244400.9	6.8	22.3	4.1	2.7	SPIRE	4210	49.8 West	2.94%	Light Pole	Nov 21	Y
		3539	330881.8	6244398.0	6.8	22.3	4.1	2.7	SPIRE	4210	62.4 West	2.93%	Light Pole	Nov 21	Y
6	12	3541	330870.2	6244395.4	7.0	23.1	4.1	3.0	SPIRE	4210	74.4 West	3.08%	Light Pole	Mar 22	Y
		3543	330858.7	6244392.5	6.8	22.3	4.1	2.7	SPIRE	4210	86.2 West	2.93%	Light Pole	Nov 21	Y
	11	3545	330846.5	6244389.6	6.9	22.7	4.1	2.9	SPIRE	4210	98.8 West	3.01%	Light Pole	Nov 21	Y
49	73	3577	330786.2	6245484.1	29.7	97.4	17.0	12.7	SPIRE	5289	92.8 East	2.22%	Sewer Vent	Mar 22	N
		3581	330762.9	6244730.6	12.1	39.7	8.3	3.8	TERRN	4561	102.2 West	1.95%	Natural Surface	Dec 21	Y
		3587	330477.5	6247404.9	47.4	155.5	40.3	7.1	TREE	7230	231.4 East	1.42%	Pine Tree	Dec 21	N
		3589	330691.8	6247546.6	47.1	154.4	41.4	5.7	BLDG	7319	472.4 East	1.37%	Tile roof of flats	Dec 21	N
		3591	330657.5	6247567.4	48.8	160.1	41.7	7.1	BLDG	7347	443.8 East	1.42%	Brick wall at N of Building	Dec 21	N

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					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		3607	329780.5	6248223.9	58.1	190.6	51.8	6.3	SPIRE	8187	259.9 West	1.35%	Sewer Vent	Dec 21	N
		3609	330104.5	6248423.9	54.1	177.5	53.2	0.9	SPIRE	8307	101.2 East	1.22%	Church Spire	Dec 21	N
		3615	329508.5	6248450.9	57.4	188.4	55.2	2.2	SPIRE	8470	472.8 West	1.25%	Church Spire (Conc Brick)	Dec 21	N
		3619	330861.7	6246035.8	28.5	93.5	23.3	5.2	ANTEN	5809	292.4 East	1.50%	Mobile Phone on Building	Dec 21	N
		3623	330515.5	6245611.9	22.4	73.5	19.3	3.1	SPIRE	5476	141.6 West	1.42%	El and Lt Pole	Dec 21	N
		3625	330579.1	6245668.1	23.7	77.8	19.7	4.0	SPIRE	5516	66.8 West	1.47%	El and Lt Pole	Dec 21	N
		3635	330749.5	6245181.9	15.8	51.8	13.6	2.2	SPIRE	5004	12.1 West	1.43%	El and Lt Pole	Dec 21	N
		3637	330741.3	6245274.9	18.4	60.5	14.7	3.7	SPIRE	5096	1.3 East	1.56%	El and Lt Pole	Dec 21	N
		3639	330743.6	6245307.7	17.8	58.2	15.1	2.7	SPIRE	5127	11.0 East	1.45%	El and Lt Pole	Dec 21	N
		3643	329543.5	6249215.9	73.7	241.8	64.0	9.7	SPIRE	9207	263.9 West	1.39%	Church Spire	Dec 21	N
		3645	329593.5	6249220.9	71.9	236.1	63.9	8.0	ANTEN	9200	214.0 West	1.36%	Lightning Conductor	Dec 21	N
35	60	3655	330647.3	6245141.7	24.1	78.9	13.4	10.6	BLDG	4988	120.7 West	2.34%	Sign	Nov 21	N
		3657	329631.9	6248360.1	60.9	199.7	53.8	7.1	BLDG	8353	373.5 West	1.36%	Flat Conc Roof	Dec 21	N
		3659	329735.0	6248558.5	61.1	200.6	55.8	5.3	ANTEN	8523	227.7 West	1.32%	TV Antenna	Dec 21	N
51	76	3665	330627.6	6247582.1	60.8	199.4	42.0	18.8	TREE	7368	418.0 East	1.77%	Gum Tree	Mar 22	N
		3667	330649.5	6245215.9	23.9	78.4	14.3	9.6	SPIRE	5060	101.6 West	2.16%	Elec Pole	Dec 21	N
47	71	3673	330728.2	6245416.7	28.6	93.8	16.4	12.2	BLDG	5237	20.9 East	2.23%	Building	Nov 21	N
		3681	329700.0	6248179.1	62.1	203.7	51.5	10.6	TREE	8161	348.5 West	1.46%	Silky Oak Tree	Dec 21	N
	55	3687	330678.9	6245015.8	20.1	65.9	11.8	8.3	ANTEN	4858	118.8 West	2.22%	TV Antenna	Nov 21	N
		3691	330689.4	6244988.3	18.2	59.7	11.5	6.7	BLDG	4829	114.8 West	2.06%	Roof Pitch (G.I. Edge of conc.)	Nov 21	N
		3697	330957.7	6245095.7	19.0	62.2	12.0	6.9	SPIRE	4872	171.0 East	2.05%	Elec Pole (Steel)	Dec 21	N
		3703	330948.2	6244901.4	13.2	43.3	9.8	3.4	SPIRE	4685	117.3 East	1.74%	Elec Pole with Light	Nov 21	N
		3705	330973.7	6244909.9	14.7	48.2	9.8	4.9	SPIRE	4688	144.0 East	1.97%	Elec Pole with Light	Nov 21	N
		3707	330931.9	6244944.9	13.9	45.7	10.3	3.6	SPIRE	4731	111.3 East	1.73%	Elec Pole with Light	Nov 21	N
		3709	330908.7	6244934.8	13.4	43.9	10.3	3.1	SPIRE	4727	86.4 East	1.66%	Elec Pole with Light	Nov 21	N
		3711	330870.0	6244966.8	13.9	45.7	10.8	3.2	SPIRE	4767	56.1 East	1.64%	Elec Pole with Light	Nov 21	N
		3713	330833.4	6244998.1	13.9	45.7	11.2	2.7	SPIRE	4806	27.6 East	1.56%	Elec Pole with Light	Nov 21	N
		3715	330796.5	6245031.1	13.8	45.4	11.7	2.1	SPIRE	4846	0.8 West	1.47%	Elec Pole with Light	Nov 21	N
		3745	330727.9	6244760.1	13.0	42.7	8.7	4.3	TERRN	4598	129.5 West	1.98%	Natural Surface	Dec 21	Y
		3747	330792.7	6244782.4	10.0	32.8	8.8	1.2	TERRN	4605	61.3 West	1.42%	Natural Surface	Nov 21	Y
		3757	330974.8	6244275.2	3.4	11.2	2.4	1.0	ANTEN	4069	0.0 West	7.20%	Antenna	Nov 21	Y
		3758	330294.6	6247814.6	57.8	189.7	45.6	12.2	TREE	7671	147.0 East	1.54%	Tree	Dec 21	N
		3760	330201.5	6247925.2	57.4	188.3	47.1	10.3	TREE	7799	81.7 East	1.47%	Tree	Dec 21	N
		3764	330291.9	6247954.1	59.6	195.4	47.2	12.3	TREE	7807	176.3 East	1.53%	Tree	Dec 21	N
		3766	330580.1	6247781.7	59.4	194.8	44.4	15.0	TREE	7573	417.4 East	1.62%	Tree	Dec 21	N
		3767	330926.4	6244367.3	4.6	15.1	3.6	1.0	SPIRE	4170	26.1 West	2.06%	Obstruction Light (Lit 2/2)	Nov 21	Y
		3768	330622.5	6247757.3	61.2	200.8	44.0	17.2	TREE	7540	453.1 East	1.69%	Tree	Nov 21	N
		3769	330977.2	6244379.7	4.6	15.1	3.6	1.0	SPIRE	4171	26.2 East	2.04%	Obstruction Light (Lit 2/2)	Nov 21	Y
		3770	330407.2	6247649.6	54.1	177.5	43.4	10.7	TREE	7484	218.9 East	1.51%	Tree	Dec 21	N
		3775	330704.1	6245315.0	23.3	76.5	15.3	8.1	SPIRE	5144	25.8 West	1.94%	Sewer Vent	Dec 21	N
50	75	3778	330726.3	6247444.5	55.8	183.1	40.1	15.7	TREE	7212	482.7 East	1.70%	Tree	Mar 22	N
		3779	330671.4	6245394.9	21.4	70.1	16.3	5.1	SPIRE	5229	39.3 West	1.63%	Elec Pole	Dec 21	N
		3781	330639.3	6245455.8	19.9	65.2	17.1	2.8	SPIRE	5295	56.7 West	1.42%	Elec Pole	Dec 21	N
		3783	330707.5	6245389.9	25.9	84.9	16.1	9.8	BLDG	5216	5.4 West	2.04%	Chimney	Nov 21	N
		3785	330711.7	6245385.2	25.9	85.1	16.1	9.9	ANTEN	5210	2.4 West	2.05%	Mast/Pylon	Nov 21	N
		3789	330790.4	6245519.4	27.7	91.0	17.4	10.3	BLDG	5323	105.0 East	2.01%	Column with Vent Cover	Nov 21	N
		3795	330170.0	6246371.6	30.3	99.4	29.1	1.2	TREE	6294	304.1 West	1.25%	Norfolk Pine Tree	Dec 21	N
		3827	330392.7	6247836.6	51.8	170.1	45.6	6.3	ANTEN	7670	247.6 East	1.37%	TV Antenna	Dec 21	N
		3829	330399.9	6247823.4	51.9	170.3	45.4	6.5	ANTEN	7655	251.6 East	1.38%	TV Antenna	Dec 21	N
56	81	3831	329539.1	6247986.8	71.2	233.6	49.7	21.5	ANTEN	8011	549.1 West	1.74%	Antenna on Building (White)	Mar 22	N
		3833	330836.7	6244385.6	5.7	18.8	4.1	1.7	MOVG	4208	109.2 West	2.28%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y

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					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		3835	330943.1	6244410.2	5.7	18.6	4.0	1.6	MOVG	4208	0.0 West	2.24%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
		3837	331049.3	6244435.3	5.7	18.8	4.0	1.7	MOVG	4208	109.1 East	2.27%	Perimeter Road Crown (plus 3.6m)	Dec 21	Y
		3863	329948.1	6247717.4	58.3	191.3	45.4	12.9	TREE	7655	212.5 West	1.56%	Tree	Dec 21	N
		3865	329725.7	6248098.2	61.0	200.0	50.5	10.5	TREE	8077	342.0 West	1.46%	Tree	Dec 21	N
		3888	330744.8	6245236.8	19.9	65.4	14.2	5.7	ANTEN	5058	4.1 West	1.77%	Mobile phone aerial	Dec 21	N
		3889	330742.1	6245238.8	20.6	67.5	14.3	6.3	ANTEN	5061	6.2 West	1.82%	Mobile phone aerial	Dec 21	N
		3890	330744.4	6245240.8	18.1	59.4	14.3	3.8	ANTEN	5062	3.5 West	1.58%	Mobile phone aerial	Dec 21	N
		3891	330760.1	6245257.9	20.5	67.4	14.5	6.1	ANTEN	5075	15.6 East	1.80%	Mobile phone aerial	Dec 21	N
		3892	330762.1	6245260.1	20.7	67.8	14.5	6.2	ANTEN	5077	18.1 East	1.81%	Mobile phone aerial	Dec 21	N
		3894	330761.3	6245253.9	19.0	62.2	14.4	4.6	BLDG	5071	15.9 East	1.65%	Shed on Roof Princes Hwy	Dec 21	N
		3901	330711.9	6245434.9	28.4	93.3	16.7	11.8	SPIRE	5258	9.2 East	2.18%	Sewer Vent on Railway Line	Nov 21	N
		3902	330626.6	6245444.3	28.5	93.7	17.0	11.6	TREE	5287	71.7 West	2.14%	Tree	Nov 21	N
		3903	330617.0	6245454.5	21.4	70.2	17.1	4.3	BLDG	5299	78.7 West	1.54%	Corner of building	Dec 21	N
		3904	330504.2	6245642.2	28.5	93.6	19.6	8.9	TREE	5508	145.6 West	1.81%	Tree	Dec 21	N
		3907	329948.0	6247793.1	58.9	193.2	46.3	12.6	TREE	7729	195.3 West	1.54%	Tree	Dec 21	N
	54	3988	330659.6	6245005.3	19.4	63.8	11.8	7.7	SPIRE	4852	139.9 West	2.16%	Vent atop building	Nov 21	N
		3989	330603.8	6245123.5	21.9	72.0	13.3	8.6	SPIRE	4980	167.2 West	2.13%	Light Pole	Nov 21	N
38	63	3991	330855.1	6245357.6	26.3	86.4	15.4	11.0	TREE	5151	131.0 East	2.20%	Tree	Nov 21	N
		3996	330834.2	6244392.5	6.1	19.9	4.1	1.9	MOVG	4216	110.1 West	2.38%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		3997	330941.3	6244417.7	6.1	19.9	4.1	1.9	MOVG	4216	0.0 East	2.37%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		3998	331048.0	6244443.4	6.0	19.8	4.1	1.9	MOVG	4216	109.7 East	2.35%	Road surface plus 4.3m as per RMS instructions (plus 4.3m)	Dec 21	Y
		4461	330688.0	6245049.7	19.6	64.4	12.2	7.4	TREE	4889	102.1 West	2.09%	Tree	Dec 21	N
		4462	330627.5	6245072.9	19.7	64.7	12.7	7.1	BLDG	4925	155.7 West	2.01%	SW corner 'The Good Guys' building	Dec 21	N
	56	4463	330595.5	6245038.3	20.8	68.4	12.3	8.5	BLDG	4899	194.7 West	2.20%	Vent on eastern side of Decathlon Sports Warehouse	Nov 21	N
		4465	330588.3	6245084.2	20.1	66.1	12.9	7.2	BLDG	4945	191.3 West	2.01%	Air conditioning unit atop 'The Good Guy' building	Dec 21	N
41	66	4467	330617.9	6245353.7	27.5	90.2	16.0	11.5	TREE	5201	100.9 West	2.20%	Tree	Nov 21	N
		4731	330929.1	6245048.1	17.7	58.1	11.5	6.2	BLDG	4832	132.2 East	1.99%	Shipping container	Nov 21	N
	50	4785	330683.9	6244956.7	19.9	65.2	11.1	8.7	TREE	4799	127.4 West	2.37%	Tree	Nov 21	N
		4787	330713.3	6245403.3	24.6	80.7	16.3	8.3	SPIRE	5227	3.4 East	1.91%	Flood Light	Dec 21	N
		4788	330644.1	6246185.9	37.2	122.2	25.6	11.6	ANTEN	6005	114.9 East	1.80%	Mobile Phone Tower	Dec 21	N
		4789	330427.3	6247727.4	54.2	178.0	44.2	10.0	TREE	7555	256.2 East	1.49%	Tree	Dec 21	N
	48	4945	330748.1	6244960.1	17.9	58.9	11.0	6.9	TREE	4788	64.0 West	2.14%	Tallest of a grove of trees	Nov 21	N
		5269	329740.2	6247669.8	54.7	179.3	45.4	9.2	BLDG	7656	425.7 West	1.46%	House	Dec 21	N
		5270	329822.9	6247675.2	56.2	184.3	45.3	10.9	BLDG	7643	344.0 West	1.50%	House	Dec 21	N
		5271	329724.1	6247743.3	57.5	188.8	46.3	11.2	BLDG	7732	424.7 West	1.50%	House	Dec 21	N
		5312	329658.7	6247605.4	56.1	184.1	44.9	11.2	TREE	7612	519.8 West	1.51%	Tree	Dec 21	N
		5313	329709.4	6247669.7	64.1	210.4	45.5	18.6	TREE	7663	455.8 West	1.72%	Tree	Nov 21	N
		5314	329734.9	6247613.3	57.2	187.7	44.8	12.4	TREE	7603	443.9 West	1.55%	Tree	Dec 21	N
		5315	329838.9	6247586.7	55.8	183.2	44.2	11.6	TREE	7553	348.7 West	1.53%	Tree	Dec 21	N
		5317	329836.9	6247629.8	56.0	183.7	44.7	11.3	TREE	7595	340.8 West	1.52%	Tree	Dec 21	N
		5318	329811.9	6247751.8	59.9	196.6	46.2	13.7	TREE	7720	337.2 West	1.57%	Tree	Dec 21	N
		5319	329869.9	6247811.6	57.5	188.6	46.7	10.8	TREE	7765	267.1 West	1.49%	Tree	Dec 21	N
		5320	329987.8	6247831.1	58.8	193.0	46.6	12.2	TREE	7757	147.9 West	1.53%	Tree	Dec 21	N
		5321	329949.8	6247825.2	60.4	198.2	46.7	13.7	TREE	7760	186.2 West	1.57%	Tree	Dec 21	N
		5419	330818.1	6244524.9	8.7	28.4	5.7	2.9	TREE	4348	95.4 West	2.19%	Shrub	Nov 21	Y
17	23	5422	330774.4	6244586.3	12.6	41.4	6.6	6.0	TREE	4418	123.9 West	2.85%	Shrub	Mar 22	Y
18	24	5423	330794.9	6244596.5	12.6	41.5	6.6	6.0	TREE	4423	101.6 West	2.82%	Shrub	Mar 22	Y
15	21	5424	330802.8	6244578.3	12.0	39.5	6.4	5.6	TREE	4404	98.1 West	2.80%	Shrub	Nov 21	Y
		5425	330838.7	6244573.7	9.9	32.6	6.2	3.7	TREE	4391	64.2 West	2.29%	Shrub	Nov 21	Y
14	20	5430	330771.8	6244565.1	11.9	39.2	6.3	5.6	TREE	4398	131.3 West	2.83%	Shrub	Nov 21	Y
23	29	5433	330752.6	6244619.7	13.6	44.7	7.0	6.6	TREE	4456	137.6 West	2.84%	Shrub	Mar 22	Y

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
	1	5469	330891.8	6244238.7	2.7	9.0	2.2	0.6	SPIRE	4053	89.1 West	142.59%	Frangible bollard	Nov 21	Y
		5471	330959.7	6244522.9	7.1	23.4	5.3	1.8	SPIRE	4314	42.0 East	1.90%	Floodlight	Nov 21	Y
		5472	330992.7	6244598.6	8.5	28.0	6.1	2.4	SPIRE	4380	91.4 East	1.94%	Floodlight	Nov 21	Y
21	27	5475	330784.1	6244612.5	12.8	41.9	6.8	5.9	TREE	4441	108.5 West	2.73%	Shrub	Dec 21	Y
26	32	5476	330779.8	6244684.7	13.5	44.4	7.7	5.8	TREE	4513	96.2 West	2.46%	Shrub	Nov 21	Y
	42	5477	330799.1	6244787.6	15.3	50.2	8.9	6.5	TREE	4608	53.8 West	2.36%	Shrub	Nov 21	Y
		5478	330811.0	6245456.5	26.1	85.6	16.6	9.4	TREE	5257	110.7 East	1.98%	Palm Tree	Dec 21	N
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	12.1 West	2.14%	Tree	Nov 21	N
		5480	330637.6	6245550.5	29.7	97.3	18.2	11.5	TREE	5388	36.6 West	2.06%	Tree	Nov 21	N
		5481	330641.6	6245652.3	30.4	99.7	19.4	11.0	TREE	5486	9.5 West	1.97%	Tree	Dec 21	N
	47	5801	330752.5	6244960.1	17.2	56.5	11.0	6.2	TREE	4787	59.8 West	2.05%	Tree	Nov 21	N
		5802	330757.9	6244965.7	16.6	54.5	11.0	5.6	TREE	4791	53.3 West	1.95%	Tree	Nov 21	N
		5804	330781.0	6244838.6	14.1	46.2	9.5	4.6	MOVG	4662	59.9 West	1.95%	Road surface	Dec 21	N
	39	5807	330798.5	6244763.6	14.1	46.4	8.6	5.6	TREE	4585	59.9 West	2.25%	Shrub	Nov 21	Y
29	35	5808	330813.6	6244716.3	14.3	46.8	8.0	6.3	TREE	4536	56.1 West	2.50%	Shrub	Nov 21	Y
19	25	5809	330844.6	6244609.3	10.9	35.9	6.6	4.3	TREE	4424	50.3 West	2.35%	Shrub	Nov 21	Y
20	26	5847	330806.1	6244609.5	12.7	41.7	6.8	6.0	TREE	4433	87.7 West	2.77%	Shrub	Nov 21	Y
27	33	5849	330744.5	6244683.2	14.1	46.2	7.8	6.3	TREE	4519	130.9 West	2.55%	Shrub	Dec 21	Y
30	36	5850	330803.1	6244722.4	14.0	46.0	8.1	5.9	TREE	4544	64.9 West	2.41%	Palm Tree	Nov 21	Y
	40	5851	330786.7	6244769.8	15.1	49.5	8.7	6.4	TREE	4594	70.1 West	2.38%	Shrub	Nov 21	Y
		5852	330748.1	6244841.1	15.6	51.1	9.6	6.0	TREE	4672	91.3 West	2.16%	Tree	Nov 21	N
	52	5883	330706.4	6244970.1	18.5	60.6	11.2	7.2	TREE	4807	102.4 West	2.16%	Tree	Nov 21	N
		5884	330727.1	6244986.1	17.2	56.4	11.4	5.8	TREE	4818	78.6 West	1.96%	Tree	Dec 21	N
		5885	330736.5	6244994.9	17.0	55.7	11.4	5.5	TREE	4825	67.4 West	1.92%	Tree	Dec 21	N
		5886	330827.7	6245163.9	20.4	67.0	13.2	7.2	BLDG	4968	60.0 East	1.99%	Shipping container	Dec 21	N
		5887	330750.2	6245229.7	22.5	73.7	14.1	8.3	ANTEN	5050	0.4 West	2.03%	Aerial atop building	Nov 21	N
		5888	330682.4	6245412.8	25.4	83.4	16.5	8.9	SPIRE	5244	24.6 West	1.95%	Floodlight	Dec 21	N
		5889	330703.3	6245423.4	26.5	86.9	16.5	10.0	SPIRE	5249	1.8 West	2.03%	Floodlight	Nov 21	N
		5890	330691.2	6245437.2	26.3	86.4	16.7	9.6	SPIRE	5265	10.4 West	1.99%	Floodlight	Dec 21	N
		5891	330677.0	6245453.4	25.6	84.1	17.0	8.7	SPIRE	5284	20.5 West	1.90%	Floodlight	Dec 21	N
		5892	330656.2	6245510.5	27.9	91.5	17.7	10.2	TREE	5345	27.7 West	1.99%	Tree	Dec 21	N
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	161.9 West	3.00%	Pole	Nov 21	N
		5952	330774.6	6244858.6	19.5	64.0	9.7	9.8	SPIRE	4683	61.5 West	2.75%	Pole	Nov 21	N
		5954	330707.8	6244911.4	19.0	62.3	10.5	8.5	SPIRE	4750	114.5 West	2.41%	Pole	Nov 21	N
		9434	330728.2	6245054.6	13.4	44.1	12.2	1.3	MOVG	4885	61.8 West	1.35%	Road Crown (plus 4.6m)	Dec 21	N
		9439	330687.0	6245068.0	16.2	53.2	12.4	3.8	MOVG	4907	98.9 West	1.64%	Road Crown (plus 4.6m)	Dec 21	N
		9445	330660.6	6245094.9	16.9	55.5	12.8	4.1	MOVG	4939	118.5 West	1.66%	Road Crown (plus 4.6m)	Dec 21	N
		9447	330646.2	6245111.0	17.1	56.1	13.0	4.0	MOVG	4958	128.8 West	1.65%	Road Crown (plus 4.6m)	Dec 21	N
		9449	330713.2	6245065.7	15.2	49.8	12.3	2.8	MOVG	4899	73.9 West	1.53%	Road Crown (plus 4.6m)	Dec 21	N
		9455	330716.5	6245063.9	14.9	48.8	12.3	2.6	MOVG	4896	71.1 West	1.51%	Road Crown (plus 4.6m)	Dec 21	N
		9456	330771.7	6244834.3	14.9	48.9	9.5	5.4	MOVG	4660	69.9 West	2.09%	Road Crown (plus 4.6m)	Dec 21	N
		9461	330680.0	6245072.5	16.5	54.2	12.5	4.0	MOVG	4913	104.7 West	1.67%	Road Crown (plus 4.6m)	Dec 21	N
		9462	330673.7	6245079.6	16.8	55.0	12.6	4.2	MOVG	4921	109.2 West	1.68%	Road Crown (plus 4.6m)	Dec 21	N
		9463	330695.4	6245065.9	15.8	51.8	12.4	3.4	MOVG	4903	91.2 West	1.60%	Road Crown (plus 4.6m)	Dec 21	N
		9467	330639.6	6245118.5	17.1	56.1	13.2	3.9	MOVG	4967	133.5 West	1.63%	Road Crown (plus 4.6m)	Dec 21	N
		9477	330653.2	6245102.9	17.0	55.9	12.9	4.1	MOVG	4949	123.8 West	1.66%	Road Crown (plus 4.6m)	Dec 21	N
32	41	9481	330697.9	6244761.2	17.0	55.7	8.8	8.1	MOVG	4606	158.4 West	2.67%	Road Crown (plus 4.6m)	Dec 21	N
		9482	330667.6	6245086.7	16.8	55.2	12.7	4.1	MOVG	4930	113.5 West	1.67%	Road Crown (plus 4.6m)	Dec 21	N
		9486	330741.7	6245038.4	12.5	40.9	11.9	0.5	MOVG	4866	52.4 West	1.26%	Road Crown (plus 4.6m)	Dec 21	N
		9487	330704.0	6245065.7	15.4	50.6	12.4	3.1	MOVG	4901	82.9 West	1.56%	Road Crown (plus 4.6m)	Dec 21	N
		9488	330735.3	6245046.0	13.0	42.5	12.0	0.9	MOVG	4875	56.9 West	1.31%	Road Crown (plus 4.6m)	Dec 21	N

2021 RWY 34L Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport				
					MGA94														
					metres	(feet)	metres	metres		metres	metres	%							
		9491	330723.0	6245059.3	14.1	46.4	12.2	1.9	MOVG	4890	65.8 West	1.43%	Road Crown (plus 4.6m)	Dec 21	N				
		9494	330814.0	6244874.6	10.4	34.1	9.8	0.6	MOVG	4690	19.5 West	1.29%	Road Crown (plus 4.6m)	Dec 21	N				
	53	9518	330684.1	6244994.9	18.8	61.7	11.6	7.2	SPIRE	4837	118.4 West	2.12%	Vent atop building	Nov 21	N				

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180 (7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
				MGA94											
					metres	(feet)	metres	metres		metres	metres	%			
1	2	2968	330977.6	6244263.3	4.2	13.9	2.2	2.0	SPIRE	4057	183.3 West	44.02%	HIAL	Mar 22	Y
2	4	2971	330982.4	6244295.2	4.7	15.5	2.6	2.1	SPIRE	4087	186.1 West	7.38%	HIAL	Mar 22	Y
3	6	2977	330968.6	6244353.7	5.7	18.8	3.3	2.4	SPIRE	4147	45.4 East	3.75%	HIAL	Mar 22	Y
4	8	2580	330950.7	6244376.9	6.0	19.5	3.6	2.3	SPIRE	4174	157.1 West	3.10%	Far Field monitor mast (lit)	Mar 22	Y
5	9	2980	330949.7	6244382.2	6.5	21.3	3.7	2.8	SPIRE	4179	321.6 West	3.39%	HIAL	Mar 22	Y
6	12	3541	330870.2	6244395.4	7.0	23.1	4.1	3.0	SPIRE	4210	95.0 East	3.08%	Light Pole	Mar 22	Y
7	13	2981	330942.2	6244413.9	7.1	23.3	4.1	3.0	SPIRE	4212	79.0 East	3.08%	HIAL	Mar 22	Y
8	14	3000	330935.0	6244444.7	7.5	24.6	4.5	3.0	SPIRE	4244	63.7 East	2.78%	HIAL	Nov 21	Y
9	15	2982	330927.6	6244476.3	8.0	26.2	4.9	3.1	SPIRE	4276	45.0 East	2.60%	HIAL	Nov 21	N
10	16	2983	330921.2	6244503.0	8.5	27.9	5.2	3.3	SPIRE	4303	30.2 East	2.52%	HIAL	Nov 21	Y
11	17	2984	330914.9	6244530.0	9.0	29.6	5.5	3.5	SPIRE	4331	14.7 East	2.45%	HIAL	Nov 21	Y
12	18	2985	330908.6	6244557.0	9.4	31.0	5.9	3.6	SPIRE	4359	2.3 West	2.37%	HIAL	Nov 21	Y
13	19	2986	330902.3	6244584.1	9.9	32.5	6.2	3.7	SPIRE	4387	17.7 West	2.31%	HIAL	Nov 21	Y
14	20	5430	330771.8	6244565.1	11.9	39.2	6.3	5.6	TREE	4398	33.9 West	2.83%	Shrub	Nov 21	Y
15	21	5424	330802.8	6244578.3	12.0	39.5	6.4	5.6	TREE	4404	48.9 West	2.80%	Shrub	Nov 21	Y
16	22	2987	330895.9	6244611.0	10.3	33.8	6.5	3.8	SPIRE	4414	66.8 West	2.24%	HIAL	Nov 21	Y
17	23	5422	330774.4	6244586.3	12.6	41.4	6.6	6.0	TREE	4418	81.7 West	2.85%	Shrub	Mar 22	Y
18	24	5423	330794.9	6244596.5	12.6	41.5	6.6	6.0	TREE	4423	97.9 West	2.82%	Shrub	Mar 22	Y
19	25	5809	330844.6	6244609.3	10.9	35.9	6.6	4.3	TREE	4424	108.3 East	2.35%	Shrub	Nov 21	Y
20	26	5847	330806.1	6244609.5	12.7	41.7	6.8	6.0	TREE	4433	96.2 East	2.77%	Shrub	Nov 21	Y
21	27	5475	330784.1	6244612.5	12.8	41.9	6.8	5.9	TREE	4441	84.1 East	2.73%	Shrub	Dec 21	Y
22	28	2988	330889.6	6244638.0	10.7	35.2	6.9	3.9	SPIRE	4442	71.7 East	2.19%	HIAL	Nov 21	Y
23	29	5433	330752.6	6244619.7	13.6	44.7	7.0	6.6	TREE	4456	59.6 East	2.84%	Shrub	Mar 22	Y
24	30	2989	330883.3	6244664.7	11.2	36.8	7.2	4.0	SPIRE	4470	47.3 East	2.17%	HIAL	Nov 21	Y
25	31	2990	330876.8	6244691.9	11.7	38.5	7.5	4.2	SPIRE	4498	35.2 East	2.15%	HIAL	Nov 21	Y
26	32	5476	330779.8	6244684.7	13.5	44.4	7.7	5.8	TREE	4513	23.1 East	2.46%	Shrub	Nov 21	Y
27	33	5849	330744.5	6244683.2	14.1	46.2	7.8	6.3	TREE	4519	10.5 East	2.55%	Shrub	Dec 21	Y
28	34	2991	330870.6	6244719.0	12.3	40.2	7.9	4.4	SPIRE	4525	1.4 West	2.13%	HIAL	Nov 21	Y
29	35	5808	330813.6	6244716.3	14.3	46.8	8.0	6.3	TREE	4536	13.7 West	2.50%	Shrub	Nov 21	Y
30	36	5850	330803.1	6244722.4	14.0	46.0	8.1	5.9	TREE	4544	25.9 West	2.41%	Palm Tree	Nov 21	Y
31	37	2992	330864.2	6244746.0	12.7	41.7	8.2	4.5	SPIRE	4553	38.1 West	2.10%	HIAL	Nov 21	Y
32	41	9481	330697.9	6244761.2	17.0	55.7	8.8	8.1	MOVG	4606	50.1 West	2.67%	Road Crown (plus 4.6m)	Dec 21	N
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	62.5 West	3.00%	Pole	Nov 21	N
34	57	3077	330670.1	6245100.1	24.1	79.1	12.9	11.3	TREE	4942	74.4 West	2.47%	Palm Tree	Mar 22	N
35	60	3655	330647.3	6245141.7	24.1	78.9	13.4	10.6	BLDG	4988	86.5 West	2.34%	Sign	Nov 21	N
36	61	1226	330607.5	6245214.0	28.2	92.5	14.4	13.8	TREE	5067	98.9 West	2.56%	TREE	Mar 22	N
37	62	3430	330688.9	6245311.7	28.0	92.0	15.3	12.8	TREE	5144	111.0 West	2.37%	Tree	Mar 22	N
38	63	3991	330855.1	6245357.6	26.3	86.4	15.4	11.0	TREE	5151	0.5 East	2.20%	Tree	Nov 21	N
39	64	3431	330646.2	6245318.9	27.5	90.3	15.5	12.0	TREE	5161	105.8 East	2.29%	Tree	Nov 21	N
40	65	3432	330641.4	6245335.1	26.5	86.9	15.7	10.8	TREE	5177	96.3 West	2.16%	Tree	Nov 21	N
41	66	4467	330617.9	6245353.7	27.5	90.2	16.0	11.5	TREE	5201	37.0 West	2.20%	Tree	Nov 21	N
42	67	3433	330626.3	6245359.5	29.3	96.1	16.0	13.3	TREE	5205	4.7 West	2.35%	Tree	Mar 22	N

2021 RWY 34L Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
43	68	3435	330656.4	6245371.5	27.2	89.1	16.1	11.1	TREE	5209	37.9 West	2.16%	Tree	Nov 21	N
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	147.0 East	2.14%	Tree	Nov 21	N
45	69	3436	330626.5	6245368.0	29.0	95.0	16.1	12.9	TREE	5213	142.9 West	2.31%	Tree	Mar 22	N
46	70	3033	330721.1	6245402.1	29.1	95.6	16.2	12.9	TREE	5224	192.2 West	2.30%	Palm Tree	Mar 22	N
47	71	3673	330728.2	6245416.7	28.6	93.8	16.4	12.2	BLDG	5237	80.8 West	2.23%	Building	Nov 21	N
48	72	3032	330596.2	6245406.3	31.0	101.7	16.6	14.4	TREE	5257	32.9 West	2.39%	Tree	Mar 22	N
49	73	3577	330786.2	6245484.1	29.7	97.4	17.0	12.7	SPIRE	5289	8.8 East	2.22%	Sewer Vent	Mar 22	N
50	75	3778	330726.3	6247444.5	55.8	183.1	40.1	15.7	TREE	7212	37.5 East	1.70%	Tree	Mar 22	N
51	76	3665	330627.6	6247582.1	60.8	199.4	42.0	18.8	TREE	7368	66.2 East	1.77%	Gum Tree	Mar 22	N
52	77	1798	330653.4	6247743.0	63.0	206.7	43.8	19.2	TREE	7519	102.1 East	1.75%	Tree - Norfolk	Mar 22	N
53	78	3449	330032.1	6247615.7	64.8	212.5	44.0	20.8	ANTEN	7537	29.5 East	1.80%	Lightning Rod	Mar 22	N
54	79	3443	329618.2	6247740.2	69.5	227.9	46.6	22.9	TREE	7753	0.9 East	1.82%	Gum Tree Group	Mar 22	N
55	80	3459	329612.2	6247971.2	70.3	230.7	49.3	21.0	SPIRE	7979	168.2 East	1.74%	Flag Pole on Clock Tower	Mar 22	N
56	81	3831	329539.1	6247986.8	71.2	233.6	49.7	21.5	ANTEN	8011	187.6 East	1.74%	Antenna on Building (White)	Mar 22	N

* Obstacle penetrates by < 0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34L Takeoff)**

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
Easting	Northing					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
330978.635	6244258.731	346° 47' 03"	4.270 (14.009)	3962.5	4052.5	2.180 (7.152)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2021 Survey)															
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description		
					MGA94										
					metres	(feet)	metres	metres		metres	metres	metres		%	
44		5479	330702.2	6245382.6	27.0	88.6	16.1	10.9	TREE	5210	147.0 East	2.14%	Tree		
33		5950	330687.9	6244788.4	19.6	64.4	9.2	10.5	SPIRE	4635	62.5 West	3.00%	Pole		

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2020 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)	metres			metres	metres	metres	
			MGA94				metres	(feet)		metres	metres	metres	
	59	1229	330579.5	6245117.6	22.1	72.4	13.3	8.8	SPIRE	4980	192.2 West	2.14%	LIGHT POLE
	49	2100	330692.7	6244950.4	17.9	58.7	11.0	6.8	SPIRE	4791	120.2 West	2.13%	Vent
	51	2102	330677.9	6244957.1	18.1	59.3	11.2	6.9	SPIRE	4801	133.1 West	2.12%	Vent
	7	2578	330895.2	6244363.8	5.9	19.2	3.6	2.2	ANTEN	4174	57.2 West	3.03%	Far field monitor mast
	3	2969	330959.1	6244289.7	4.7	15.5	2.6	2.1	SPIRE	4087	12 West	7.34%	HIAL
	5	2975	330957.0	6244350.9	5.7	18.8	3.3	2.4	SPIRE	4147	0 East	3.74%	HIAL
	38	2993	330857.9	6244773.0	13.1	43.1	8.5	4.6	SPIRE	4581	0 East	2.07%	HIAL
	43	2994	330851.5	6244800.0	13.7	44.9	8.9	4.8	SPIRE	4609	0 East	2.07%	HIAL
	45	3292	330743.9	6244795.2	15.2	49.7	9.1	6.1	SPIRE	4629	105.9 West	2.25%	Traffic Sign
	46	3411	330743.5	6244796.1	15.2	50.0	9.1	6.1	SPIRE	4629	106 West	2.26%	Traffic sign
	44	3414	330714.3	6244782.3	15.0	49.2	9.0	6.0	SPIRE	4623	137.7 West	2.25%	Traffic sign
	58	3423	330624.8	6245125.9	22.4	73.4	13.3	9.1	TREE	4978	146.2 West	2.18%	Tree
	10	3517	331012.4	6244428.6	6.8	22.2	4.1	2.7	SPIRE	4210	71.7 East	2.92%	Light Pole
	11	3545	330846.5	6244389.6	6.9	22.7	4.1	2.9	SPIRE	4210	98.8 West	3.01%	Light Pole
	55	3687	330678.9	6245015.8	20.1	65.9	11.8	8.3	ANTEN	4858	118.8 West	2.22%	TV Antenna
	74	3793	330781.5	6246090.9	37.0	121.4	24.1	12.9	ANTEN	5881	226.9 East	1.90%	Mobile Phone Tower
	54	3988	330659.6	6245005.3	19.4	63.8	11.8	7.7	BLDG	4852	139.9 West	2.16%	Vent atop building
	56	4463	330595.5	6245038.3	20.8	68.4	12.3	8.5	BLDG	4899	194.7 West	2.20%	Vent on eastern side of Decathlon Sports Warehouse
	50	4785	330683.9	6244956.7	19.9	65.2	11.1	8.7	TREE	4799	127.4 West	2.37%	Tree
	48	4945	330748.1	6244960.1	17.9	58.9	11.0	6.9	TREE	4788	64 West	2.14%	Tallest of a grove of trees
	1	5469	330891.8	6244238.7	2.7	9.0	2.2	0.6	SPIRE	4053	89.1 West	142.59%	Frangible bollard
	42	5477	330799.1	6244787.6	14.9	48.8	8.9	6.0	TREE	4608	53.8 West	2.29%	Shrub
	47	5801	330752.5	6244960.1	17.2	56.5	11.0	6.2	TREE	4787	59.8 West	2.05%	Tree
	39	5807	330798.5	6244763.6	13.2	43.3	8.6	4.6	TREE	4585	59.9 West	2.07%	Shrub
	40	5851	330786.7	6244769.8	15.1	49.5	8.7	6.4	TREE	4594	70.1 West	2.38%	Shrub
	52	5883	330706.4	6244970.1	18.5	60.6	11.2	7.2	TREE	4807	102.4 West	2.16%	Tree
	53	9518	330684.1	6244994.9	18.8	61.7	11.6	7.2	BLDG	4837	118.4 West	2.12%	Vent atop building

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

**SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L Takeoff)**

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at Origin	
<u>Easting</u>	<u>Northing</u>		<u>Chainage 00</u>				(m)	(ft)
(MGA94)		(Deg Min Sec)	(m)	(ft)	(metres)	(metres)		
333163.594	6239490.595	166° 47' 03"	4.969	(16.302)	2438.0	2528.0	3.999	(13.12)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport				
					MGA94														
					metres	(feet)	metres	metres		metres	metres	%							
6	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2588	0.0 West	3.06%	Antenna	Mar 22	Y				
		1974	333176.7	6239320.0	6.6	21.7	6.0	0.6	SPIRE	2697	26.2 West	1.54%	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y				
		2050	333227.8	6239332.0	6.7	21.9	6.0	0.7	SPIRE	2697	26.2 East	1.59%	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y				
10	14	2204	333268.5	6239361.6	7.6	25.0	5.8	1.8	ANTEN	2678	72.7 East	2.42%	Aerial	Mar 22	Y				
		2706	333208.1	6239500.3	4.3	14.2	4.0	0.3	SPIRE	2529	45.6 East	44.09%	ILS Protected Area Bollard	Nov 21	Y				
		2708	333214.4	6239473.6	4.4	14.4	4.3	0.0	SPIRE	2556	45.6 East	1.33%	ILS Protected Area Bollard	Nov 21	Y				
3	5	2714	333125.2	6239457.6	4.5	14.7	4.3	0.2	SPIRE	2551	44.9 West	2.04%	ILS Protected Area Bollard	Mar 22	Y				
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528	44.7 West	208.48%	ILS Protected Area Bollard	Mar 22	Y				
		2718	333091.0	6239472.8	4.2	13.8	4.0	0.2	SPIRE	2529	74.7 West	28.75%	ILS Protected Area Bollard	Nov 21	Y				
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2545	12.0 East	2.43%	34R HIAL	Mar 22	Y				
	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2545	0.0 East	2.43%	34R HIAL	Nov 21	Y				
	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2545	12.0 West	2.43%	34R HIAL	Nov 21	Y				
4	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573	12.0 East	1.93%	34R HIAL	Mar 22	Y				
5	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573	0.0 West	1.94%	34R HIAL	Mar 22	Y				
	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573	12.0 West	1.93%	34R HIAL	Mar 22	Y				
		4352	333192.3	6239421.0	5.4	17.6	4.9	0.5	SPIRE	2602	12.0 East	1.83%	34R HIAL	Mar 22	Y				
		4354	333180.6	6239418.2	5.4	17.6	4.9	0.5	SPIRE	2602	0.0 East	1.83%	34R HIAL	Mar 22	Y				
		4356	333168.9	6239415.5	5.4	17.6	4.9	0.5	SPIRE	2602	12.0 West	1.83%	34R HIAL	Mar 22	Y				
8	12	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	12.0 East	1.78%	34R HIAL	Mar 22	Y				
	10	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2631	0.0 East	1.78%	34R HIAL	Nov 21	Y				
7	11	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631	12.0 West	1.78%	34R HIAL	Mar 22	Y				
9	13	4364	333205.4	6239364.9	6.3	20.8	5.6	0.7	SPIRE	2660	12.0 East	1.77%	34R HIAL	Mar 22	Y				
		4366	333193.8	6239362.2	6.3	20.8	5.6	0.7	SPIRE	2660	0.0 East	1.77%	34R HIAL	Mar 22	Y				
		4368	333182.1	6239359.4	6.3	20.8	5.6	0.7	SPIRE	2660	12.0 West	1.77%	34R HIAL	Mar 22	Y				
		4370	333215.0	6239337.3	6.8	22.4	5.9	0.9	SPIRE	2689	15.0 East	1.75%	34R HIAL	Mar 22	Y				
		4372	333200.3	6239334.3	7.1	23.2	5.9	1.1	SPIRE	2689	0.0 West	1.91%	34R HIAL	Mar 22	Y				
		4374	333185.8	6239330.5	6.8	22.3	5.9	0.9	SPIRE	2689	15.0 West	1.75%	34R HIAL	Mar 22	Y				
		4376	333205.2	6239313.5	7.4	24.1	6.2	1.2	SPIRE	2710	0.0 West	1.84%	RWY 34R Localiser Far Field Centreline Monitor Antenna	Mar 22	Y				
		4378	333207.0	6239305.8	7.6	24.8	6.3	1.3	SPIRE	2718	0.0 East	1.88%	Post	Mar 22	Y				
		4380	333147.0	6239299.8	6.9	22.5	6.2	0.7	SPIRE	2710	59.8 West	1.57%	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Mar 22	Y				
		4738	333213.5	6239277.9	7.6	24.8	6.6	0.9	SPIRE	2746	0.1 West	1.63%	34R HIAL	Nov 21	Y				

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999 (13.12)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

2021 RWY 16L Type A
Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
1	1	2716	333120.1	6239480.2	4.4	14.4	4.0	0.4	SPIRE	2528	0.0 West	208.48%	ILS Protected Area Bollard	Mar 22	Y
2	2	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2545	26.2 West	2.43%	34R HIAL	Mar 22	Y
3	5	2714	333125.2	6239457.6	4.5	14.7	4.3	0.2	SPIRE	2551	26.2 East	2.04%	ILS Protected Area Bollard	Mar 22	Y
4	6	4346	333185.7	6239449.2	4.9	16.0	4.5	0.3	SPIRE	2573	72.7 East	1.93%	34R HIAL	Mar 22	Y
5	7	4348	333174.0	6239446.4	4.9	16.0	4.5	0.3	SPIRE	2573	45.6 East	1.94%	34R HIAL	Mar 22	Y
6	9	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2588	45.6 East	3.06%	Antenna	Mar 22	Y
7	11	4362	333175.5	6239387.5	5.8	19.1	5.2	0.6	SPIRE	2631	44.9 West	1.78%	34R HIAL	Mar 22	Y
8	12	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	44.7 West	1.78%	34R HIAL	Mar 22	Y
9	13	4364	333205.4	6239364.9	6.3	20.8	5.6	0.7	SPIRE	2660	74.7 West	1.77%	34R HIAL	Mar 22	Y
10	14	2204	333268.5	6239361.6	7.6	25.0	5.8	1.8	ANTEN	2678	12.0 East	2.42%	Aerial	Mar 22	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Sydney Kingsford-Smith Airport Runway 16L Take Off						
Mid-point Easting	of origin Northing	Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999 (13.12)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

New Obstacles
(Obstacles newly reflected on Type A Charts - 2021 Survey)

Obstacles along Runways on Type A Charts - 2021 Survey													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					metres	(feet)	metres	metres		metres	metres	%	
			MGA94										

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles
(Obstacles removed from Type A Charts - 2020 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	(Obstacles removed from Type A Charts - 2020 Survey)				Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)					
					metres	(feet)	metres	metres					
MGA94					metres	(feet)	metres	metres	metres	metres	metres	%	
	4	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2545	0 West	2.43%	HIAL
	3	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2545	12 West	2.43%	HIAL
	8	4350	333162.3	6239443.6	4.9	16.0	4.5	0.3	SPIRE	2573	12 West	1.93%	HIAL
	10	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2631	0 West	1.78%	HIAL

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L 15° Diverging Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at		Runway Length	Chainage at Origin	Height at	
<u>Easting</u>	<u>Northing</u>		<u>Chainage 00</u>				<u>Origin</u>	
(MGA94)		(Deg Min Sec)	(m) (ft)		(metres)	(metres)	(m) (ft)	
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)		2438.0	2528.0	3.999 (13.12)	

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

2021 RWY 16L 15° Diverging Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	%				
4	10	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2586	15.5 West	3.17%	Antenna	Mar 22	Y
		1974	333176.7	6239320.0	6.6	21.7	5.9	0.7	SPIRE	2685	69.1 West	1.66%	Western Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y
		2050	333227.8	6239332.0	6.7	21.9	6.0	0.6	SPIRE	2698	18.4 West	1.58%	Eastern Obstacle light atop RWY 16L Localiser (lit)	Nov 21	Y
11	15	2204	333268.5	6239361.6	7.6	25.0	6.0	1.7	ANTEN	2691	31.5 East	2.21%	Aerial	Mar 22	Y
1	1	2702	333231.1	6239526.3	4.1	13.4	4.0	0.1	SPIRE	2528	76.4 East	18.49%	ILS Protected Area Bollard	Mar 22	Y
	2	2706	333208.1	6239500.3	4.3	14.2	4.1	0.2	SPIRE	2541	43.8 East	2.64%	ILS Protected Area Bollard	Nov 21	Y
		2712	333131.8	6239431.1	4.5	14.7	4.4	0.0	SPIRE	2565	56.2 West	1.30%	ILS Protected Area Bollard	Nov 21	Y
2	6	2714	333125.2	6239457.6	4.5	14.7	4.1	0.3	SPIRE	2539	49.4 West	4.37%	ILS Protected Area Bollard	Mar 22	Y
	3	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2547	7.3 East	2.10%	34R HIAL	Mar 22	Y
	5	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544	4.3 West	2.51%	34R HIAL	Nov 21	Y
	4	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2541	15.9 West	3.12%	34R HIAL	Nov 21	Y
	7	4346	333185.7	6239449.2	4.9	16.0	4.6	0.3	SPIRE	2575	0.1 West	1.87%	34R HIAL	Mar 22	Y
	8	4348	333174.0	6239446.4	4.9	16.0	4.5	0.4	SPIRE	2572	11.8 West	2.00%	34R HIAL	Mar 22	Y
3	9	4350	333162.3	6239443.6	4.9	16.0	4.5	0.4	SPIRE	2569	23.3 West	2.16%	34R HIAL	Mar 22	Y
		4352	333192.3	6239421.0	5.4	17.6	4.9	0.5	SPIRE	2603	7.6 West	1.81%	34R HIAL	Mar 22	Y
		4354	333180.6	6239418.2	5.4	17.6	4.9	0.5	SPIRE	2600	19.2 West	1.89%	34R HIAL	Mar 22	Y
		4356	333168.9	6239415.5	5.4	17.6	4.8	0.5	SPIRE	2597	30.8 West	1.98%	34R HIAL	Mar 22	Y
6	13	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	15.1 West	1.79%	34R HIAL	Mar 22	Y
	11	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2628	26.7 West	1.84%	34R HIAL	Nov 21	Y
5	12	4362	333175.5	6239387.5	5.8	19.1	5.2	0.7	SPIRE	2624	38.3 West	1.90%	34R HIAL	Mar 22	Y
8	14	4364	333205.4	6239364.9	6.3	20.8	5.6	0.8	SPIRE	2659	22.5 West	1.79%	34R HIAL	Mar 22	Y
		4366	333193.8	6239362.2	6.3	20.8	5.5	0.8	SPIRE	2655	34.1 West	1.83%	34R HIAL	Mar 22	Y
7		4368	333182.1	6239359.4	6.3	20.8	5.5	0.8	SPIRE	2652	45.7 West	1.87%	34R HIAL	Mar 22	Y
		4370	333215.0	6239337.3	6.8	22.4	5.9	0.9	SPIRE	2687	27.2 West	1.77%	34R HIAL	Mar 22	Y
10		4372	333200.3	6239334.3	7.1	23.2	5.9	1.2	SPIRE	2683	41.6 West	1.98%	34R HIAL	Mar 22	Y
9		4374	333185.8	6239330.5	6.8	22.3	5.8	1.0	SPIRE	2680	56.1 West	1.85%	34R HIAL	Mar 22	Y
		4376	333205.2	6239313.5	7.4	24.1	6.1	1.2	SPIRE	2704	47.1 West	1.91%	RWY 34R Localiser Far Field Centreline Monitor Antenna	Mar 22	Y
		4378	333207.0	6239305.8	7.6	24.8	6.2	1.4	SPIRE	2711	49.1 West	1.95%	Post	Mar 22	Y
		4380	333147.0	6239299.8	6.9	22.5	5.9	0.9	SPIRE	2688	104.8 West	1.79%	RWY 34R Localiser Far Field Displacement Sensitivity Monitor Antenna	Mar 22	Y
		4738	333213.5	6239277.9	7.6	24.8	6.5	1.0	SPIRE	2739	56.6 West	1.68%	34R HIAL	Nov 21	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L 15° Diverging Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00		Runway Length	Chainage at Origin	Height at Origin	
Easting	Northing		(m)	(ft)			(m)	(ft)
(MGA94)		(Deg Min Sec)			(metres)	(metres)		
333163.594	6239490.595	166° 47' 03"	4.969	(16.302)	2438.0	2528.0	3.999	(13.12)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Significant (Charted) Obstacles

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)	metres	metres		metres	metres	%			
1	1	2702	333231.1	6239526.3	4.1	13.4	4.0	0.1	SPIRE	2528	15.5 West	18.49%	ILS Protected Area Bollard	Mar 22	Y
2	6	2714	333125.2	6239457.6	4.5	14.7	4.1	0.3	SPIRE	2539	69.1 West	4.37%	ILS Protected Area Bollard	Mar 22	Y
3	9	4350	333162.3	6239443.6	4.9	16.0	4.5	0.4	SPIRE	2569	18.4 West	2.16%	34R HIAL	Mar 22	Y
4	10	1001	333177.3	6239432.3	5.8	19.1	4.7	1.1	ANTEN	2586	31.5 East	3.17%	Antenna	Mar 22	Y
5	12	4362	333175.5	6239387.5	5.8	19.1	5.2	0.7	SPIRE	2624	76.4 East	1.90%	34R HIAL	Mar 22	Y
6	13	4358	333198.8	6239393.0	5.8	19.1	5.2	0.6	SPIRE	2631	43.8 East	1.79%	34R HIAL	Mar 22	Y
7		4368	333182.1	6239359.4	6.3	20.8	5.5	0.8	SPIRE	2652	56.2 West	1.87%	34R HIAL	Mar 22	Y
8	14	4364	333205.4	6239364.9	6.3	20.8	5.6	0.8	SPIRE	2659	49.4 West	1.79%	34R HIAL	Mar 22	Y
9		4374	333185.8	6239330.5	6.8	22.3	5.8	1.0	SPIRE	2680	7.3 East	1.85%	34R HIAL	Mar 22	Y
10		4372	333200.3	6239334.3	7.1	23.2	5.9	1.2	SPIRE	2683	4.3 West	1.98%	34R HIAL	Mar 22	Y
11	15	2204	333268.5	6239361.6	7.6	25.0	6.0	1.7	ANTEN	2691	15.9 West	2.21%	Aerial	Mar 22	Y

* Obstacle penetrates by $< 0.05\text{m}$.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 16L 15° Diverging Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
333163.594	6239490.595	166° 47' 03"	4.969 (16.302)	2438.0	2528.0	3.999 (13.12)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.

2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

2021 RWY 16L 15° Diverging Type A

New and Deleted Obstacles

New Obstacles

(Obstacles newly reflected on Type A Charts - 2021 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description		
					MGA94		metres	metres		metres	metres	metres		metres	%
					metres	(feet)									
7		4368	333182.1	6239359.4	6.3	20.8	5.5	0.8	SPIRE	2652	56.2 West	1.87%	34R HIAL		
10		4372	333200.3	6239334.3	7.1	23.2	5.9	1.2	SPIRE	2683	4.3 West	1.98%	34R HIAL		
9		4374	333185.8	6239330.5	6.8	22.3	5.8	1.0	SPIRE	2680	7.3 East	1.85%	34R HIAL		

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles

(Obstacles removed from Type A Charts - 2020 Survey)

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	(Obstacles removed from Type A Charts - 2020 survey)								Description
					Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	
					metres	(feet)	metres	metres		metres	metres	%	
			MGA94										
	2	2706	333208.1	6239500.3	4.3	14.2	4.1	0.2	SPIRE	2541	43.8 East	2.64%	ILS Protected Area Bollard
	3	4340	333179.1	6239477.3	4.4	14.4	4.2	0.2	SPIRE	2547	7.3 East	2.10%	HIAL
	5	4342	333167.4	6239474.5	4.4	14.4	4.2	0.2	SPIRE	2544	4.3 West	2.51%	HIAL
	4	4344	333155.7	6239471.8	4.4	14.4	4.2	0.2	SPIRE	2541	15.9 West	3.12%	HIAL
	7	4346	333185.7	6239449.2	4.9	16.0	4.6	0.3	SPIRE	2575	0.1 West	1.87%	HIAL
	8	4348	333174.0	6239446.4	4.9	16.0	4.5	0.4	SPIRE	2572	11.8 West	2.00%	HIAL
	11	4360	333187.2	6239390.3	5.8	19.1	5.2	0.6	SPIRE	2628	26.7 West	1.84%	HIAL

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)

(ALL OBSTACLES PENETRATING THE 1.2% SURFACE)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin	
<u>Easting</u>	<u>Northing</u>					(m)	(ft)
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m)	(ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984	(16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.

Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles.

Note:

1. These numbers are regenerated with each survey and may vary from one year to the next.
2. The previous year's Chart No is also supplied for cross-referencing purposes.

Reference Number

Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.

Type of Obstacle

ICAO Identification as displayed on Type A Chart and shown on that chart's legend.

Description

General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
26	38	418	332545.7	6242699.3	24.4	79.9	13.1	11.3	TREE	3175	132.0 East	2.86%	Tree	Mar 22	Y
		424	332391.8	6242479.4	17.4	56.9	11.0	6.4	SPIRE	2996	68.1 West	2.48%	Flood light	Nov 21	N
		590	332576.4	6242380.5	12.3	40.2	9.3	3.0	SPIRE	2858	89.1 East	2.02%	Flood light atop advertising sign	Nov 21	Y
		658	332352.5	6242712.0	15.3	50.0	13.8	1.5	SPIRE	3232	53.1 West	1.40%	Light Pole	Nov 21	Y
		662	332347.5	6242685.8	14.9	48.8	13.5	1.4	SPIRE	3207	64.0 West	1.40%	Light Pole	Nov 21	Y
		664	332292.9	6242724.3	15.0	49.2	14.1	0.9	SPIRE	3257	108.4 West	1.32%	Light Pole	Nov 21	Y
		668	332269.3	6242733.8	15.5	50.8	14.3	1.2	SPIRE	3272	129.1 West	1.36%	Light Pole	Nov 21	Y
		766	332074.8	6246713.2	68.8	225.6	61.3	7.5	ANTEN	7190	591.2 East	1.36%	Mobile Phone Tower atop building (lit)	Dec 21	N
		1145	332382.2	6242305.9	11.5	37.7	9.0	2.5	SPIRE	2829	117.0 West	1.96%	Perimeter Fence Floodlight	Nov 21	Y
		1146	332404.1	6242317.4	11.7	38.3	9.0	2.6	SPIRE	2836	93.1 West	1.98%	Perimeter Fence Floodlight	Nov 21	Y
		1147	332420.1	6242337.6	11.7	38.3	9.2	2.5	SPIRE	2852	73.0 West	1.89%	Perimeter Fence Floodlight	Nov 21	Y
		1148	332438.0	6242353.9	11.8	38.6	9.4	2.4	SPIRE	2863	51.8 West	1.85%	Perimeter Fence Floodlight	Nov 21	Y
		1149	332462.6	6242361.1	11.7	38.4	9.4	2.3	SPIRE	2865	26.2 West	1.83%	Perimeter Fence Floodlight	Nov 21	Y
		1150	332488.2	6242356.9	11.2	36.8	9.3	1.9	SPIRE	2855	2.3 West	1.74%	Perimeter Fence Floodlight	Nov 21	Y
		1151	332517.2	6242357.8	10.6	34.7	9.2	1.4	SPIRE	2849	26.2 East	1.59%	Perimeter Fence Floodlight	Nov 21	Y
		1152	332515.9	6242328.6	10.5	34.5	8.9	1.7	SPIRE	2821	18.3 East	1.72%	Perimeter Fence Floodlight	Nov 21	Y
	43	1189	332341.5	6243956.1	48.8	160.0	28.4	20.4	BLDG	4445	220.6 East	2.25%	SE Corner Stamford Hotel	Mar 22	N
		1239	332559.3	6242695.7	18.5	60.8	13.0	5.5	BLDG	3168	144.5 East	2.02%	CHIMNEY	Nov 21	Y
27	39	1241	332580.9	6242713.5	22.7	74.4	13.2	9.5	TREE	3181	169.5 East	2.59%	TREE	Mar 22	Y
		1249	332139.0	6243472.9	25.3	83.2	23.3	2.1	SPIRE	4021	87.0 West	1.34%	FLOOD LIGHT	Dec 21	Y
		1250	332164.6	6243468.6	25.4	83.3	23.1	2.2	SPIRE	4011	63.1 West	1.35%	FLOOD LIGHT	Dec 21	Y
		1251	332189.6	6243465.1	25.5	83.7	23.0	2.5	SPIRE	4002	39.5 West	1.36%	FLOOD LIGHT	Dec 21	Y
		1374	332481.5	6242794.3	16.3	53.6	14.4	2.0	SPIRE	3282	91.3 East	1.45%	Flood Light	Dec 21	Y
		1375	332531.4	6242806.1	16.5	54.0	14.4	2.1	SPIRE	3282	142.5 East	1.46%	Flood Light	Nov 21	Y
18	29	1381	332580.7	6242476.5	17.6	57.7	10.4	7.2	SPIRE	2950	115.2 East	2.79%	Flood Light	Nov 21	N
28	40	1503	332045.1	6243478.1	35.2	115.4	23.6	11.6	SPIRE	4048	177.2 West	1.95%	Southern edge of steel light frame support atop floodlight pole	Mar 22	Y
		1516	331896.8	6243608.9	35.2	115.4	25.5	9.7	SPIRE	4209	291.7 West	1.77%	Flood Light	Feb 22	Y
		1554	332474.1	6242025.0	6.2	20.5	5.4	0.8	BLDG	2535	91.8 West	3.43%	Demountable building	Nov 21	Y
		1778	332492.6	6243566.1	30.7	100.8	23.4	7.3	SPIRE	4031	278.5 East	1.68%	Lightning rod atop floodlight pole	Feb 22	Y
		1809	332380.3	6244618.7	48.0	157.5	36.0	12.0	BLDG	5081	409.9 East	1.67%	Lightening conductor atop building	Dec 21	N
		1810	332315.3	6244711.6	42.0	137.8	37.2	4.8	BLDG	5187	367.8 East	1.38%	BLDG	Dec 21	N
		1811	332243.3	6244738.1	43.5	142.7	37.8	5.7	BLDG	5229	303.8 East	1.41%	BLDG	Dec 21	N
		1821	332039.4	6243407.0	24.7	81.0	22.8	1.9	SPIRE	3980	199.1 West	1.33%	Flood Light pole	Dec 21	Y
		1822	332373.3	6243564.1	30.7	100.8	23.7	7.0	SPIRE	4056	162.0 East	1.65%	Flood Light	Dec 21	Y
		1823	332412.4	6243568.2	30.6	100.5	23.6	7.0	SPIRE	4051	200.9 East	1.65%	Flood Light	Dec 21	Y
		2326	332618.4	6242318.7	10.7	35.1	8.5	2.2	SPIRE	2788	115.8 East	1.97%	Street Light	Nov 21	N
		2328	332625.7	6242300.9	10.3	33.7	8.2	2.1	SPIRE	2769	118.8 East	1.96%	Street Light	Nov 21	N
	27	2418	332456.5	6242440.3	15.6	51.1	10.3	5.3	TREE	2943	14.0 West	2.38%	Sheoak	Nov 21	Y
	31	2420	332511.1	6242474.7	17.9	58.8	10.6	7.3	TREE	2964	47.0 East	2.77%	Tallest of a grove of trees	Nov 21	N
	32	2422	332486.3	6242469.7	18.3	60.1	10.6	7.7	TREE	2965	21.8 East	2.85%	Tallest of a grove of trees	Mar 22	N
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	127.4 East	2.93%	Tree	Mar 22	Y
		2624	332315.0	6242527.2	20.3	66.7	11.7	8.6	TREE	3060	131.9 West	2.73%	Tree	Nov 21	Y
		2626	332477.7	6242515.8	15.8	51.9	11.2	4.7	SPIRE	3012	23.9 East	2.11%	Street light	Nov 21	Y
		2628	332430.6	6242492.8	15.5	50.9	11.0	4.5	SPIRE	3000	27.2 West	2.09%	Street light	Nov 21	N
		2630	332588.4	6242541.2	17.4	57.2	11.1	6.3	SPIRE	3011	137.4 East	2.42%	Street light	Nov 21	N
24	36	2634	332549.4	6242581.8	21.4	70.3	11.7	9.7	TREE	3060	108.8 East	2.93%	Tree	Mar 22	Y
		2638	332303.2	6242560.9	15.6	51.2	12.2	3.4	SPIRE	3096	135.6 West	1.78%	Flood light	Nov 21	Y
		2640	332293.5	6242598.0	20.1	65.9	12.6	7.5	TREE	3134	136.6 West	2.38%	Tree	Nov 21	Y
		2642	332284.7	6242624.2	17.2	56.6	12.9	4.3	TREE	3162	139.2 West	1.85%	Tree	Nov 21	Y
		2644	332254.0	6242634.9	16.1	52.9	13.2	3.0	SPIRE	3179	166.7 West	1.64%	Flood light	Nov 21	Y
		2648	332409.0	6242759.5	17.0	55.8	14.2	2.8	SPIRE	3265	12.7 East	1.57%	Flood light	Nov 21	Y
		2650	332399.6	6242742.2	15.5	50.9	14.0	1.5	SPIRE	3250	0.4 West	1.40%	Light pole	Nov 21	Y
		2652	332528.5	6242780.2	17.2	56.4	14.1	3.1	SPIRE	3258	133.8 East	1.61%	Flood light	Nov 21	Y

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport						
					MGA94																
					metres	(feet)	metres	metres				%									
		2654	332270.1	6242760.3	15.6	51.0	14.6	1.0	SPIRE	3297	122.3 West	1.32%	Flood light	Nov 21	Y						
		2656	332323.5	6242807.6	16.0	52.5	15.0	1.0	SPIRE	3331	59.5 West	1.32%	Flood light	Nov 21	Y						
		2658	332460.9	6242779.6	18.3	60.0	14.3	4.0	TREE	3273	67.9 East	1.72%	Tree	Nov 21	Y						
		2660	332566.6	6242858.2	16.0	52.5	14.9	1.1	SPIRE	3325	188.7 East	1.33%	Flood light	Dec 21	Y						
		2662	332432.0	6243584.2	28.0	91.9	23.8	4.2	TREE	4062	223.7 East	1.47%	Tree	Dec 21	Y						
		2666	332180.0	6243644.0	35.3	115.9	25.1	10.2	BLDG	4178	8.0 West	1.81%	SE corner eastern most MSCP T2	Feb 22	Y						
		2676	332091.7	6243658.0	27.6	90.4	25.6	2.0	BLDG	4212	90.7 West	1.32%	SE corner MSCP T2	Dec 21	Y						
		2678	332079.5	6243660.4	32.8	107.6	25.6	7.2	SPIRE	4217	102.1 West	1.62%	Flood light	Dec 21	Y						
		2680	332002.2	6243672.4	32.8	107.6	26.0	6.8	SPIRE	4247	174.6 West	1.59%	Flood light	Dec 21	Y						
		2682	332088.9	6243691.0	32.0	105.0	25.9	6.1	SPIRE	4245	85.9 West	1.55%	Flood light	Dec 21	Y						
		2684	332085.6	6243689.1	28.7	94.2	25.9	2.8	BLDG	4244	89.6 West	1.36%	Building atop MSCP T2	Dec 21	Y						
		2686	332047.7	6243676.1	28.4	93.2	25.9	2.5	BLDG	4240	129.4 West	1.34%	Building atop MSCP T2	Dec 21	Y						
		2688	332342.8	6243711.9	27.0	88.6	25.5	1.5	TREE	4207	166.0 East	1.29%	Tree	Feb 22	Y						
		2692	331902.8	6244041.8	42.8	140.3	30.6	12.2	SPIRE	4629	186.9 West	1.77%	Flood light	Dec 21	Y						
		2694	331916.0	6244134.5	43.3	142.1	31.6	11.7	SPIRE	4716	152.8 West	1.73%	Flood light	Dec 21	Y						
31	44	2816	332340.7	6243957.3	51.0	167.3	28.4	22.6	MOVG	4447	220.1 East	2.36%	BMU Window Washing Unit	Mar 22	N						
32	45	2818	332312.3	6243970.4	50.9	167.0	28.6	22.3	BLDG	4466	195.4 East	2.33%	Stamford Hotel Plant Room	Mar 22	N						
	21	3092	332549.2	6242429.4	14.3	46.8	9.9	4.3	TREE	2911	73.7 East	2.24%	Tree	Nov 21	Y						
		3096	332480.6	6242784.9	18.5	60.8	14.3	4.2	TREE	3273	88.2 East	1.75%	Tree	Nov 21	Y						
		3099	332476.6	6242881.8	15.9	52.2	15.4	0.5	SPIRE	3368	106.5 East	1.26%	light pole long term carpark	Dec 21	Y						
		3482	332533.1	6242415.8	13.8	45.1	9.8	3.9	TREE	2902	55.0 East	2.17%	Tree	Nov 21	Y						
		3483	332526.2	6242423.5	15.0	49.4	9.9	5.1	TREE	2911	50.0 East	2.44%	Tallest of a grove of trees	Nov 21	Y						
	22	3484	332543.3	6242429.5	14.3	46.9	10.0	4.3	TREE	2913	68.0 East	2.24%	Tree	Nov 21	Y						
		3485	332552.3	6242451.8	15.3	50.3	10.2	5.1	TREE	2933	81.9 East	2.38%	Tree	Nov 21	N						
	28	3486	332529.1	6242462.1	17.3	56.8	10.4	6.9	TREE	2948	61.6 East	2.74%	Tree	Nov 21	N						
		3506	332604.3	6242251.2	9.8	32.3	7.7	2.1	TREE	2725	86.7 East	2.13%	Tree	Nov 21	Y						
11	12	3512	332618.5	6242272.0	11.2	36.7	7.9	3.3	TREE	2742	105.2 East	2.53%	Tree	Nov 21	Y						
13	14	3514	332613.5	6242306.7	11.7	38.3	8.3	3.3	TREE	2777	108.3 East	2.39%	Tree	Nov 21	Y						
		3590	332275.0	6244870.4	52.0	170.6	39.2	12.8	BLDG	5350	364.9 East	1.65%	PROPERTY DEVELOPMENT	Dec 21	N						
		3925	332517.6	6242614.6	20.4	66.9	12.2	8.2	TREE	3099	85.4 East	2.56%	Tree	Nov 21	Y						
		3927	332525.5	6242529.3	17.7	58.2	11.2	6.6	TREE	3014	73.5 East	2.47%	Tree	Nov 21	Y						
	3	4002	332553.4	6242025.3	6.7	21.9	5.2	1.5	SPIRE	2517	14.5 West	8.85%	HAL	Nov 21	Y						
	2	4012	332568.3	6242028.8	6.7	21.9	5.2	1.5	SPIRE	2517	0.7 East	8.85%	HAL	Nov 21	Y						
1	1	4022	332583.1	6242032.2	6.7	21.9	5.2	1.5	SPIRE	2517	15.9 East	8.86%	HAL	Mar 22	Y						
2	4	4026	332561.3	6242061.5	7.2	23.6	5.6	1.6	SPIRE	2550	1.4 East	4.22%	HAL	Mar 22	Y						
3	5	4030	332553.8	6242093.8	7.8	25.5	6.0	1.8	SPIRE	2584	1.5 East	3.26%	HAL	Mar 22	Y						
4	6	4032	332546.2	6242126.1	8.3	27.4	6.4	1.9	SPIRE	2617	1.4 East	2.82%	HAL	Nov 21	Y						
6	8	4036	332537.1	6242158.0	8.9	29.1	6.8	2.0	SPIRE	2650	0.1 West	2.55%	HAL	Nov 21	Y						
		4040	332512.0	6242186.2	9.4	30.9	7.2	2.2	SPIRE	2683	18.0 West	2.39%	HAL	Nov 21	Y						
	9	4054	332530.9	6242190.6	9.4	30.9	7.2	2.2	SPIRE	2683	1.4 East	2.39%	HAL	Nov 21	Y						
7	10	4066	332548.5	6242194.8	9.4	31.0	7.2	2.2	SPIRE	2683	19.4 East	2.41%	HAL	Nov 21	Y						
		4069	332508.1	6242168.6	7.7	25.2	7.0	0.7	SPIRE	2667	25.9 West	1.59%	Obstruction Light (Lit 1/1)	Nov 21	Y						
10	11	4070	332523.5	6242222.7	10.0	32.7	7.6	2.4	SPIRE	2716	1.5 East	2.28%	HAL	Nov 21	Y						
		4071	332558.7	6242180.5	7.7	25.2	7.0	0.7	SPIRE	2667	26.1 East	1.59%	Obstruction Light (Lit 1/1)	Nov 21	Y						
12	13	4074	332516.0	6242254.4	10.5	34.5	8.0	2.5	SPIRE	2749	1.5 East	2.21%	HAL	Nov 21	Y						
14	15	4078	332508.5	6242286.3	11.1	36.3	8.4	2.7	SPIRE	2781	1.4 East	2.14%	HAL	Nov 21	Y						
16	17	4082	332501.1	6242318.1	11.6	38.0	8.8	2.8	SPIRE	2814	1.4 East	2.09%	HAL	Nov 21	Y						
	18	4084	332471.0	6242344.5	12.2	39.9	9.2	3.0	SPIRE	2847	21.8 West	2.06%	HAL	Nov 21	Y						
		4100	332493.6	6242350.0	12.2	39.9	9.2	3.0	SPIRE	2847	1.4 East	2.06%	HAL	Nov 21	Y						
		4114	332514.7	6242354.9	12.2	39.9	9.2	3.0	SPIRE	2847	23.2 East	2.06%	HAL	Nov 21	Y						
		4118	332485.2	6242382.7	12.7	41.6	9.6	3.1	SPIRE	2881	0.7 East	2.01%	HAL	Nov 21	Y						
		4124	332477.3	6242415.6	13.3	43.5	10.0	3.3	SPIRE	2914	0.6 East	1.98%	HAL	Nov 21	Y						
		4129	331996.2	6243892.9	40.8	133.8	28.6	12.2	BLDG	4463	130.0 West	1.82%	Railing on Roof	Dec 21	Y						

2021 RWY 34R Type A
All Obstacles Penetrating the 1.2% Type A Surface

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		4130	332469.7	6242448.4	13.8	45.3	10.4	3.4	SPIRE	2948	0.7 East	1.96%	HIAL	Nov 21	Y
		4136	332461.9	6242481.5	14.4	47.3	10.8	3.6	SPIRE	2982	0.7 East	1.95%	HIAL	Nov 21	N
		4140	332426.6	6242511.0	14.4	47.3	11.2	3.2	SPIRE	3019	27.0 West	1.81%	HIAL	Nov 21	Y
		4149	332449.2	6242158.2	8.1	26.7	7.1	1.1	ANTEN	2670	85.6 West	1.83%	Aerial atop shed	Nov 21	Y
		4158	332453.5	6242517.2	14.4	47.3	11.2	3.2	SPIRE	3019	0.7 East	1.81%	HIAL	Nov 21	Y
		4176	332480.4	6242523.6	14.4	47.3	11.2	3.2	SPIRE	3019	28.3 East	1.81%	HIAL	Nov 21	Y
		4180	332447.2	6242544.5	14.4	47.2	11.6	2.8	SPIRE	3047	0.7 East	1.71%	HIAL	Nov 21	Y
		4186	332440.7	6242571.8	14.4	47.1	11.9	2.5	SPIRE	3075	0.7 East	1.63%	HIAL	Nov 21	Y
		4192	332434.4	6242599.0	14.4	47.2	12.2	2.1	SPIRE	3103	0.7 East	1.55%	HIAL	Nov 21	Y
		4198	332427.9	6242626.1	14.4	47.1	12.6	1.8	SPIRE	3131	0.7 East	1.48%	HIAL	Nov 21	Y
		4204	332421.6	6242653.5	14.4	47.2	12.9	1.5	SPIRE	3159	0.7 East	1.42%	HIAL	Nov 21	Y
		4205	332481.0	6242365.7	10.1	33.0	9.4	0.7	MOVG	2865	7.2 West	1.39%	Gate 16 Access Road Crown (plus 4.6m)	Dec 21	Y
		4208	331824.5	6243772.9	39.7	130.2	27.6	12.1	SPIRE	4385	324.6 West	1.84%	Obstruction Light (Lit 1/1)	Feb 22	Y
		4210	331823.7	6243776.5	39.8	130.5	27.7	12.1	SPIRE	4389	324.6 West	1.84%	Obstruction Light (Lit 1/1)	Feb 22	Y
		4212	331864.8	6243686.5	40.7	133.4	26.5	14.2	SPIRE	4292	305.1 West	1.99%	Obstruction Light (Lit 1/1)	Feb 22	Y
30	42	4214	331863.1	6243683.5	40.9	134.2	26.5	14.4	SPIRE	4289	307.5 West	2.01%	Obstruction Light (Lit 1/1)	Mar 22	Y
		4301	332568.7	6242432.9	16.4	53.6	9.9	6.4	SPIRE	2910	93.5 East	2.76%	Light Pole	Nov 21	N
	19	4303	332580.8	6242397.1	14.4	47.3	9.5	4.9	SPIRE	2873	97.1 East	2.52%	Light Pole	Nov 21	N
17	20	4333	332608.2	6242407.0	16.0	52.4	9.5	6.5	SPIRE	2876	126.1 East	2.91%	Light Pole	Nov 21	N
		4335	332608.8	6242433.2	13.0	42.7	9.8	3.2	SPIRE	2902	132.6 East	1.99%	Light Pole	Nov 21	N
		4337	332593.2	6242441.2	16.2	53.2	10.0	6.3	SPIRE	2913	119.3 East	2.71%	Light Pole	Nov 21	N
		4339	332524.5	6242492.8	19.4	63.8	10.8	8.7	SPIRE	2979	64.2 East	3.01%	Light Pole	Mar 22	N
		4341	332481.6	6242480.7	18.3	60.1	10.7	7.6	SPIRE	2977	19.6 East	2.78%	Light Pole	Nov 21	N
		4343	332440.5	6242469.2	17.0	55.8	10.7	6.3	SPIRE	2975	22.9 West	2.52%	Light Pole	Nov 21	N
		4345	332399.8	6242457.7	15.8	52.0	10.7	5.2	SPIRE	2973	65.3 West	2.29%	Light Pole	Nov 21	N
		4347	332548.1	6242501.2	19.5	64.0	10.8	8.7	SPIRE	2982	89.0 East	3.00%	Light Pole	Mar 22	N
22	35	4349	332575.4	6242508.2	19.8	65.0	10.8	9.0	SPIRE	2982	117.3 East	3.06%	Light Pole	Mar 22	N
21	34	4351	332603.0	6242507.2	19.4	63.7	10.7	8.7	SPIRE	2975	144.0 East	3.03%	Light Pole	Mar 22	N
		4361	331875.0	6243912.0	39.7	130.2	29.1	10.6	BLDG	4509	243.7 West	1.73%	Building	Feb 22	Y
		4365	332043.2	6244409.8	56.3	184.6	34.5	21.8	ANTEN	4955	33.9 East	2.09%	Antenna (Lit 0/2)	Mar 22	Y
		4393	332443.8	6242306.1	8.9	29.1	8.8	0.1	TERRN	2816	57.0 West	1.22%	Top of Bank	Nov 21	Y
		4395	332427.3	6242299.2	8.9	29.3	8.8	0.2	TERRN	2813	74.7 West	1.26%	Top of Bank	Nov 21	Y
		4397	332414.9	6242293.0	8.8	28.9	8.7	0.1	TERRN	2809	88.2 West	1.22%	Top of Bank	Nov 21	Y
		4405	332440.7	6242309.8	9.9	32.5	8.8	1.1	SPIRE	2820	59.2 West	1.53%	Pole	Nov 21	Y
		4407	332419.8	6242453.9	11.3	37.1	10.6	0.7	MOVG	2965	46.6 West	1.35%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4409	332442.9	6242460.5	12.0	39.4	10.6	1.4	MOVG	2966	22.7 West	1.50%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4411	332466.3	6242466.9	12.7	41.7	10.6	2.1	MOVG	2967	1.6 East	1.65%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4413	332489.8	6242473.8	13.5	44.2	10.6	2.8	MOVG	2968	26.1 East	1.81%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4415	332514.0	6242480.7	14.2	46.6	10.6	3.6	MOVG	2969	51.2 East	1.96%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4417	332538.4	6242487.2	14.8	48.7	10.6	4.2	MOVG	2970	76.5 East	2.09%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4419	332560.6	6242494.1	15.1	49.5	10.7	4.4	MOVG	2972	99.6 East	2.14%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4421	332585.2	6242501.2	15.1	49.4	10.7	4.4	MOVG	2973	125.2 East	2.12%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4423	332604.6	6242505.8	14.8	48.7	10.7	4.1	MOVG	2973	145.2 East	2.07%	Road Edge (South) (plus 4.4m)	Dec 21	N
		4440	332530.7	6242185.2	8.3	27.2	7.1	1.2	SPIRE	2678	0.1 West	1.85%	RWY 16L Localiser Far Field Centreline Monitor Antenna	Nov 21	Y
		4441	332468.8	6242170.6	8.5	27.9	7.1	1.4	SPIRE	2678	63.7 West	1.96%	RWY 16L Localiser Far Field Displacement Sensitivity Monitor Antenna	Nov 21	Y
		4446	332560.7	6242448.8	15.8	51.8	10.1	5.6	TREE	2928	89.4 East	2.51%	Tree	Nov 21	N
		4484	332602.6	6242436.2	14.2	46.7	9.9	4.3	TREE	2906	127.3 East	2.27%	Tree	Nov 21	N
		4485	332607.4	6242453.1	16.3	53.6	10.1	6.3	TREE	2921	135.8 East	2.68%	Tree	Nov 21	N
19	30	4486	332605.2	6242496.2	19.2	63.1	10.6	8.7	TREE	2964	143.5 East	3.06%	Tree	Mar 22	N
		4487	332547.0	6242478.3	17.6	57.6	10.5	7.0	TREE	2960	82.8 East	2.73%	Tree	Nov 21	N
29	41	4492	332173.3	6243646.9	38.7	127.1	25.2	13.5	BLDG	4183	13.9 West	2.00%	Multi Storey Carpark	Mar 22	Y
		4493	332450.4	6243827.9	40.0	131.3	26.6	13.5	BLDG	4295	297.3 East	1.95%	Mantra Hotel	Feb 22	Y
20	33	4509	332588.3	6242499.4	19.5	64.1	10.7	8.9	TREE	2971	127.8 East	3.08%	Tree	Mar 22	N

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					MGA94										
					metres	(feet)	metres	metres		metres	metres	%			
		4595	332270.0	6245143.0	51.2	167.9	42.4	8.8	BLDG	5617	422.3 East	1.48%	Apartment		N
		4737	332343.1	6242464.5	15.1	49.4	10.9	4.1	SPIRE	2993	118.9 West	2.04%	Floodlight	Nov 21	N
		4741	331854.1	6248446.4	82.6	271.0	82.1	0.5	BLDG	8928	772.6 East	1.21%	Brick Chimney	Dec 21	N
		4773	331709.8	6248055.9	82.0	269.0	78.0	4.0	ANTEN	8581	542.9 East	1.27%	Church Crux	Dec 21	N
33	46	4781	332274.4	6244017.0	52.1	170.9	29.2	22.8	BLDG	4520	169.2 East	2.33%	BUILDING (Lit) Airport Central	Mar 22	N
		4807	331887.5	6246559.1	66.5	218.2	60.0	6.5	BLDG	7083	373.7 East	1.34%	Chimney	Dec 21	N
		4832	332380.9	6244481.0	51.0	167.3	34.4	16.6	BLDG	4947	378.9 East	1.88%	Building	Nov 21	N
		4833	332337.0	6244908.7	50.8	166.8	39.5	11.3	BLDG	5374	434.0 East	1.59%	Building	Dec 21	N
5	7	5409	332641.1	6242166.7	9.8	32.2	6.6	3.2	TREE	2635	103.2 East	3.54%	Tree	Mar 22	Y
15	16	5412	332600.6	6242334.3	11.9	39.0	8.7	3.2	TREE	2807	102.0 East	2.23%	Tree	Nov 21	Y
		5415	332366.2	6242465.8	12.2	39.9	10.9	1.3	SPIRE	2989	96.1 West	1.46%	Sign	Nov 21	N
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	111.7 East	2.42%	Tree	Nov 21	Y
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	108.7 East	2.34%	Tree	Nov 21	Y
		5466	332524.1	6242793.7	19.8	65.1	14.3	5.6	TREE	3272	132.6 East	1.92%	Tree	Nov 21	Y
		5467	332540.4	6242799.7	17.6	57.8	14.3	3.3	TREE	3274	149.8 East	1.63%	Tree	Nov 21	Y
		5468	332576.2	6242809.9	22.8	74.8	14.3	8.5	TREE	3276	187.0 East	2.29%	Tree	Nov 21	Y
		5494	332426.8	6242856.4	16.7	54.8	15.3	1.4	SPIRE	3355	52.3 East	1.37%	Light Pole	Nov 21	Y
		5495	332458.9	6242867.0	16.7	54.9	15.3	1.4	SPIRE	3358	85.9 East	1.36%	Light Pole	Nov 21	Y
		5895	332356.7	6242451.9	14.6	48.0	10.7	3.9	SPIRE	2977	108.5 West	2.01%	Floodlight	Nov 21	N
		5964	332342.8	6242395.5	15.3	50.2	10.1	5.2	TREE	2926	135.0 West	2.41%	Tree	Nov 21	Y
		5965	332355.3	6242399.7	14.9	48.8	10.1	4.7	TREE	2927	121.8 West	2.30%	Tree	Nov 21	Y
		5966	332391.3	6242407.8	14.6	47.8	10.1	4.4	TREE	2927	84.9 West	2.24%	Tree	Nov 21	Y
		5967	332412.3	6242412.0	14.4	47.3	10.1	4.3	TREE	2926	63.5 West	2.20%	Tree	Nov 21	Y
		5968	332372.9	6242419.2	15.9	52.2	10.3	5.6	TREE	2942	100.3 West	2.46%	Tree	Nov 21	Y
		5969	332402.9	6242423.5	16.7	54.7	10.3	6.4	TREE	2939	70.0 West	2.65%	Tree	Nov 21	Y
		5970	332538.5	6242663.7	19.0	62.2	12.7	6.3	TREE	3142	116.9 East	2.17%	Tree	Nov 21	Y
		6604	332305.2	6244342.8	51.7	169.5	33.0	18.7	BLDG	4830	273.7 East	2.00%	Lightning Rod atop Apartments	Mar 22	N
		9076	332347.1	6243056.9	18.9	62.0	17.8	1.1	SPIRE	3569	20.5 East	1.30%	25 Glide Path Mast cnr nearest RWY (lit)	Dec 21	Y
		9080	332521.6	6242843.5	16.4	53.8	14.9	1.5	SPIRE	3321	141.5 East	1.39%	light pole long term carpark	Dec 21	Y
		9081	332506.1	6242891.0	16.1	52.8	15.5	0.6	SPIRE	3371	137.3 East	1.27%	light pole long term carpark	Dec 21	Y
		9087	332472.5	6242828.3	16.3	53.4	14.8	1.5	SPIRE	3317	90.3 East	1.38%	light pole long term carpark	Dec 21	Y
		9089	332412.3	6242856.9	15.8	51.7	15.3	0.4	SPIRE	3359	38.2 East	1.25%	light pole long term carpark	Nov 21	Y
		9092	332309.2	6242855.6	15.9	52.1	15.6	0.3	SPIRE	3381	62.5 West	1.23%	light pole long term carpark	Nov 21	Y
		9093	332360.5	6242870.5	16.0	52.4	15.6	0.3	SPIRE	3384	9.1 West	1.24%	light pole long term carpark	Nov 21	Y
		9094	332375.0	6242822.7	16.0	52.6	15.0	1.0	SPIRE	3334	5.9 West	1.32%	light pole long term carpark	Nov 21	Y
		9095	332262.2	6242801.5	15.3	50.2	15.1	0.2	SPIRE	3339	120.6 West	1.23%	light pole long term carpark	Nov 21	Y
		9097	332338.0	6242759.9	15.8	52.0	14.4	1.5	SPIRE	3282	56.2 West	1.39%	light pole long term carpark	Nov 21	Y
		9098	332388.8	6242774.7	15.8	51.7	14.4	1.4	SPIRE	3284	3.5 West	1.37%	light pole long term carpark	Nov 21	Y
		9111	332340.5	6243545.8	30.7	100.6	23.6	7.1	SPIRE	4046	125.8 East	1.66%	light pole long term carpark	Dec 21	Y
		9112	332309.0	6243550.4	32.5	106.6	23.7	8.8	SPIRE	4058	96.2 East	1.76%	light pole long term carpark	Dec 21	Y
		9113	332265.9	6243563.7	31.0	101.8	24.0	7.0	SPIRE	4080	57.3 East	1.64%	light pole long term carpark	Dec 21	Y
		9114	332222.4	6243572.5	30.6	100.4	24.2	6.4	SPIRE	4099	16.9 East	1.60%	light pole long term carpark	Feb 22	Y
		9538	332502.9	6242552.1	17.1	56.2	11.5	5.6	TREE	3041	56.7 East	2.24%	TREE	Nov 21	Y
25	37	9539	332528.3	6242604.4	21.1	69.4	12.0	9.1	TREE	3087	93.4 East	2.75%	TREE	Mar 22	Y

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)

(SIGNIFICANT OBSTACLES PENETRATING THE 1.2% SURFACE SHOWN ON TYPE A CHART)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984 (16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description	Date Last Visited	On Airport
					metres	(feet)									
					MGA94					metres	(feet)	metres			
1	1	4022	332583.1	6242032.2	6.7	21.9	5.2	1.5	SPIRE	2517	132.0 East	8.86%	HAL	Mar 22	Y
2	4	4026	332561.3	6242061.5	7.2	23.6	5.6	1.6	SPIRE	2550	68.1 West	4.22%	HAL	Mar 22	Y
3	5	4030	332553.8	6242093.8	7.8	25.5	6.0	1.8	SPIRE	2584	89.1 East	3.26%	HAL	Mar 22	Y
4	6	4032	332546.2	6242126.1	8.3	27.4	6.4	1.9	SPIRE	2617	53.1 West	2.82%	HAL	Nov 21	Y
5	7	5409	332641.1	6242166.7	9.8	32.2	6.6	3.2	TREE	2635	64.0 West	3.54%	Tree	Mar 22	Y
6	8	4036	332537.1	6242158.0	8.9	29.1	6.8	2.0	SPIRE	2650	108.4 West	2.55%	HAL	Nov 21	Y
7	10	4066	332548.5	6242194.8	9.4	31.0	7.2	2.2	SPIRE	2683	129.1 West	2.41%	HAL	Nov 21	Y
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	591.2 East	2.42%	Tree	Nov 21	Y
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	117.0 West	2.34%	Tree	Nov 21	Y
10	11	4070	332523.5	6242222.7	10.0	32.7	7.6	2.4	SPIRE	2716	93.1 West	2.28%	HAL	Nov 21	Y
11	12	3512	332618.5	6242272.0	11.2	36.7	7.9	3.3	TREE	2742	73.0 West	2.53%	Tree	Nov 21	Y
12	13	4074	332516.0	6242254.4	10.5	34.5	8.0	2.5	SPIRE	2749	51.8 West	2.21%	HAL	Nov 21	Y
13	14	3514	332613.5	6242306.7	11.7	38.3	8.3	3.3	TREE	2777	26.2 West	2.39%	Tree	Nov 21	Y
14	15	4078	332508.5	6242286.3	11.1	36.3	8.4	2.7	SPIRE	2781	2.3 West	2.14%	HAL	Nov 21	Y
15	16	5412	332600.6	6242334.3	11.9	39.0	8.7	3.2	TREE	2807	26.2 East	2.23%	Tree	Nov 21	Y
16	17	4082	332501.1	6242318.1	11.6	38.0	8.8	2.8	SPIRE	2814	18.3 East	2.09%	HAL	Nov 21	Y
17	20	4333	332608.2	6242407.0	16.0	52.4	9.5	6.5	SPIRE	2876	220.6 East	2.91%	Light Pole	Nov 21	N
18	29	1381	332580.7	6242476.5	17.6	57.7	10.4	7.2	SPIRE	2950	144.5 East	2.79%	Flood Light	Nov 21	N
19	30	4486	332605.2	6242496.2	19.2	63.1	10.6	8.7	TREE	2964	169.5 East	3.06%	Tree	Mar 22	N
20	33	4509	332588.3	6242499.4	19.5	64.1	10.7	8.9	TREE	2971	87.0 West	3.08%	Tree	Mar 22	N
21	34	4351	332603.0	6242507.2	19.4	63.7	10.7	8.7	SPIRE	2975	63.1 West	3.03%	Light Pole	Mar 22	N
22	35	4349	332575.4	6242508.2	19.8	65.0	10.8	9.0	SPIRE	2982	39.5 West	3.06%	Light Pole	Mar 22	N
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	91.3 East	2.93%	Tree	Mar 22	Y
24	36	2634	332549.4	6242581.8	21.4	70.3	11.7	9.7	TREE	3060	142.5 East	2.93%	Tree	Mar 22	Y
25	37	9539	332528.3	6242604.4	21.1	69.4	12.0	9.1	TREE	3087	115.2 East	2.75%	TREE	Mar 22	Y
26	38	418	332545.7	6242699.3	24.4	79.9	13.1	11.3	TREE	3175	177.2 West	2.86%	Tree	Mar 22	Y
27	39	1241	332580.9	6242713.5	22.7	74.4	13.2	9.5	TREE	3181	291.7 West	2.59%	TREE	Mar 22	Y
28	40	1503	332045.1	6243478.1	35.2	115.4	23.6	11.6	SPIRE	4048	91.8 West	1.95%	Southern edge of steel light frame support atop floodlight pole	Mar 22	Y
29	41	4492	332173.3	6243646.9	38.7	127.1	25.2	13.5	BLDG	4183	278.5 East	2.00%	Multi Storey Carpark	Mar 22	Y
30	42	4214	331863.1	6243683.5	40.9	134.2	26.5	14.4	SPIRE	4289	409.9 East	2.01%	Obstruction Light (Lit 1/1)	Mar 22	Y
31	44	2816	332340.7	6243957.3	51.0	167.3	28.4	22.6	MOVG	4447	367.8 East	2.36%	BMU Window Washing Unit	Mar 22	N
32	45	2818	332312.3	6243970.4	50.9	167.0	28.6	22.3	BLDG	4466	303.8 East	2.33%	Stamford Hotel Plant Room	Mar 22	N
33	46	4781	332274.4	6244017.0	52.1	170.9	29.2	22.8	BLDG	4520	199.1 West	2.33%	BUILDING (Lit) Airport Central	Mar 22	N

* Obstacle penetrates by < 0.05m.

SYDNEY (KINGSFORD-SMITH) AIRPORT, AUSTRALIA
AERONAUTICAL INFORMATION PUBLICATION
AERODROME OBSTACLE CHART (DECEMBER 2021)
ICAO ANNEX 4 TYPE A (OPERATING LIMITATIONS)
(Runway 34R Takeoff)

(NEW AND DELETED OBSTACLES)

The origin of the surface is located at the end of the clearway

The total length of the area is 10000 metres (5.4 NM)

The area is splayed at 12.5% (7° 08')

The surface has a gradient of 1.2%

Chainages commence from the start of the Take Off run available

Datum for bearings and co-ordinates is the Map Grid of Australia (MGA94)

Datum for heights (HT) is the Australian Height Datum (AHD)

NB: The published height relating to roads include a height between 2.5m and 4.6m for transient obstacles.

NB: The published height relating to railways include a 5.3m height for transient obstacles.

NB: Obstacle database used for reduction: Obst 220323.xlsm

Mid-point of origin		Runway Bearing	Height at Chainage 00	Runway Length	Chainage at Origin	Height at Origin
<u>Easting</u>	<u>Northing</u>					
(MGA94)		(Deg Min Sec)	(m) (ft)	(metres)	(metres)	(m) (ft)
332571.925	6242010.054	346° 47' 03"	3.999 (13.12)	2438.0	2498.0	4.984 (16.352)

EXPLANATION OF SPECIFIC TERMS

Chart No.	Chart Identification Number, shown on the respective Type A Chart for the current year, denoting only the Significant Obstacles. <u>Note:</u> 1. These numbers are regenerated with each survey and may vary from one year to the next. 2. The previous year's Chart No is also supplied for cross-referencing purposes.
Reference Number	Surveyor Identification Number - A unique sequential number allocated during surveys to identify an obstacle. This number does not change.
Type of Obstacle	ICAO Identification as displayed on Type A Chart and shown on that chart's legend.
Description	General description of the respective obstacle.

New Obstacles (Obstacles newly reflected on Type A Charts - 2021 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					MGA94								
					metres	(feet)	metres	metres		metres	metres	%	
23		2610	332573.1	6242562.0	20.7	68.0	11.4	9.3	TREE	3035	91.3 East	2.93%	Tree
8		5461	332637.6	6242219.0	9.6	31.3	7.2	2.3	TREE	2686	591.2 East	2.42%	Tree
9		5462	332630.8	6242235.1	9.8	32.1	7.5	2.3	TREE	2704	117.0 West	2.34%	Tree

Note: A 'New' Obstacle is an obstacle that has become prominent from the results of the current survey. It is now reflected on the Type A Chart.

It is possible that this obstacle existed prior to this survey but was not prominent at that time (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.

Deleted Obstacles (Obstacles removed from Type A Charts - 2020 Survey)													
Chart No. (2021)	Chart No. (2020)	Reference Number (Surveyor ID No.)	Easting	Northing	Height of Obstacle above AHD		Height of Lowest Surveyed Slope (1.2%) above AHD	Pen. of Lowest Surveyed Slope (1.2%)	Type of Obstacle	Chainage relative to RWY Start	Offset from Centreline	Gradient to top of Obstacle	Description
					MGA94								
					metres	(feet)	metres	metres		metres	%		
	43	1189	332341.5	6243956.1	48.8	160.0	28.4	20.4	BLDG	4445	220.6 East	2.25%	SE Corner Stamford Hotel
	26	2190	332422.8	6242429.5	17.8	58.5	10.3	7.5	TREE	2940	49.3 West	2.90%	Needle Pine
	27	2418	332459.4	6242440.9	17.0	55.8	10.3	6.7	TREE	2943	11 West	2.70%	Sheoak
	31	2420	332511.1	6242474.7	17.9	58.8	10.6	7.3	TREE	2964	47 East	2.77%	Tallest of a grove of trees
	32	2422	332486.3	6242469.7	18.3	60.1	10.6	7.7	TREE	2965	21.8 East	2.85%	Tallest of a grove of trees
	21	3092	332551.7	6242421.6	17.0	55.8	9.8	7.2	TREE	2903	74.4 East	2.97%	Tree
	25	3093	332375.8	6242416.0	18.3	60.1	10.3	8.1	TREE	2938	98.1 West	3.03%	Tree
	22	3484	332546.5	6242426.6	17.3	56.7	9.9	7.4	TREE	2909	70.5 East	2.99%	Tree
	28	3486	332529.1	6242462.1	17.3	56.8	10.4	6.9	TREE	2948	61.6 East	2.74%	Tree
	3	4002	332553.4	6242025.3	6.7	21.9	5.2	1.5	SPIRE	2517	14.5 West	8.85%	HAL
	2	4012	332568.3	6242028.8	6.7	21.9	5.2	1.5	SPIRE	2517	0.7 East	8.85%	HAL
	9	4054	332530.9	6242190.6	9.4	30.9	7.2	2.2	SPIRE	2683	1.4 East	2.39%	HAL
	18	4084	332471.0	6242344.5	12.2	39.9	9.2	3.0	SPIRE	2847	21.8 West	2.06%	HAL
	19	4303	332580.8	6242397.1	14.4	47.3	9.5	4.9	SPIRE	2873	97.1 East	2.52%	Light Pole
	24	5413	332406.1	6242422.0	18.2	59.7	10.3	7.9	TREE	2937	67.3 West	3.01%	Tree
	23	5414	332398.4	6242418.9	18.3	60.1	10.2	8.1	TREE	2936	75.4 West	3.05%	Tree

Note: A 'Deleted' Obstacle is an obstacle no longer prominent from the results of the current survey. It has been removed from the Type A Chart.

It is possible that this obstacle still physically exists however it is no longer prominent (eg: shielded by other obstacles, etc).

* Obstacle penetrates <0.05m.