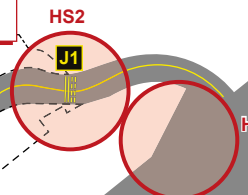


STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE	STAND	COORDINATE
<b>Terminal 1</b>			<b>Terminal 3</b>			<b>Terminal 2</b>			<b>Terminal 2 Remote</b>		
1	532138.99N 0021626.69W	41	532137.98N 0021615.96W	63L	532137.28N 0021649.93W	80R	532149.16N 0021652.46W	202L	532151.11N 0021636.03W	909	532210.95N 0021724.54W
2	532138.77N 0021629.90W	42	532136.08N 0021615.36W	64	532139.65N 0021653.13W	81L	532151.71N 0021655.92W	203	532152.37N 0021637.63W	911	532209.93N 0021726.22W
4	532137.08N 0021629.40W	43	532134.20N 0021615.58W	64L	532139.36N 0021652.20W	81R	532151.07N 0021655.68W	204L	532153.25N 0021639.75W	915	532207.73N 0021729.65W
5	532136.78N 0021627.03W	44	532133.06N 0021614.93W	64R	532140.39N 0021653.34W	82	532153.71N 0021658.84W	206	532155.36N 0021642.03W	917	532206.25N 0021730.65W
6	532135.22N 0021629.55W	44L	532133.13N 0021615.66W	65	532141.31N 0021656.08W	82L	532153.70N 0021700.13W	206L	532155.27N 0021643.04W	919	532204.91N 0021731.45W
7	532135.40N 0021627.33W	44R	532132.23N 0021615.36W	66	532143.26N 0021659.87W	82R	532152.76N 0021658.55W	207	532156.42N 0021644.86W		
8	532133.47N 0021629.97W	47	532132.64N 0021613.78W	66L	532142.79N 0021659.08W	925	532157.88N 0021726.05W	208	532157.47N 0021645.56W		
9	532133.78N 0021627.52W	48	532133.43N 0021612.85W	66R	532143.72N 0021700.65W	927	532156.87N 0021724.36W	208L	532157.40N 0021646.61W		
10	532131.72N 0021630.09W	49	532135.44N 0021612.59W	67	532145.12N 0021703.02W	929	532155.87N 0021722.67W	209	532158.49N 0021648.31W		
11	532132.27N 0021627.87W	50	532136.78N 0021610.08W	67L	532144.86N 0021701.88W			210	532159.47N 0021650.09W		
12	532129.59N 0021629.08W	51	532137.76N 0021608.63W	67R	532145.81N 0021703.44W						
12R	532129.79N 0021630.64W	52	532138.74N 0021607.10W	68	532146.99N 0021706.17W						
15	532130.43N 0021627.61W	54	532140.79N 0021603.76W	68R	532147.67N 0021706.60W						
16	532139.50N 0021623.00W	55	532142.19N 0021601.15W	69	To be surveyed	104	532208.87N 0021708.10W	231R	532151.33N 0021652.19W		
17	532139.53N 0021620.77W	55L	532141.60N 0021601.18W	70	To be surveyed	105	532208.64N 0021714.01W	233	532152.55N 0021654.05W		
18	532139.19N 0021617.87W	55R	532142.36N 0021559.30W	71	To be surveyed	106	532207.32N 0021710.97W	235	532153.52N 0021656.15W		
21	532140.73N 0021630.74W	57	532142.99N 0021555.38W	72	To be surveyed	106R	532207.39N 0021710.20W	237	532154.82N 0021657.88W		
22	532143.79N 0021634.48W	58	532143.88N 0021553.53W	73	To be surveyed	107	532207.63N 0021715.68W	113L	532204.46N 0021720.47W		
23	532142.33N 0021633.89W			74	532154.57N 0021719.71W	108	532205.87N 0021711.31W	113	532203.09N 0021720.09W		
24	532144.39N 0021637.18W			74L	532154.02N 0021718.57W	109	532206.61N 0021717.36W	113R	532203.22N 0021721.66W		
25	532142.49N 0021636.90W	61	532133.60N 0021649.21W	74R	532154.98N 0021720.19W	110	532205.70N 0021713.85W	114	532202.85N 0021717.46W		
26	532144.56N 0021640.07W	61L	532132.45N 0021649.43W	80	532150.01N 0021652.74W	110L	532204.98N 0021713.36W	116L	532201.84N 0021719.31W		
27	532142.96N 0021638.59W	61R	532134.77N 0021648.47W	80L	532150.16N 0021654.14W	111	532205.60N 0021719.03W	116	532202.36N 0021719.45W		
28	532145.81N 0021642.44W	62	532136.72N 0021648.56W			112	532204.02N 0021716.64W	901	532214.99N 0021717.84W		
29	532143.66N 0021642.89W	62L	532136.51N 0021646.80W			112R	532204.06N 0021715.81W	903	532213.98N 0021719.52W		
31	532144.59N 0021644.56W	62R	532137.04N 0021647.28W			201	532150.71N 0021634.59W	905	532212.97N 0021721.19W		
32	532145.59N 0021643.76W	63	532137.71N 0021650.63W			202	532151.17N 0021635.06W	907	532211.96N 0021722.87W		

**Hot Spot HS2**  
Hold J1 faces 23R approach and is located 200m from the runway centreline.



**Excursion Hot Spot HS3**  
Rwy 05L-23R has very wide shoulders. Pilots of departing aircraft to ensure aircraft are lined up with centreline, not the runway edge.

VAR 0.4°W - 2022  
Annual Rate of Change 0.21°E

COM		
ARRIVAL ATIS	128.180	MANCHESTER INFO
DEPARTURE ATIS	121.980	MANCHESTER DEPARTURE INFO
TWR	118.630 119.405	MANCHESTER TOWER
	121.855	MANCHESTER GROUND
	121.705	MANCHESTER DELIVERY
	121.600	MANCHESTER FIRE

RUNWAY/TAXIWAY/APRON PHYSICAL CHARACTERISTICS			
APRON / RWY / TWY	SURFACE	BEARING STRENGTH	ELEVATION
RWY 05L/23R	Concrete/Ungrooved Asphalt	94/F/C/W/T	-
RWY 05R/23L	Concrete/Grooved Asphalt	79/F/C/W/T	-
Apron	Concrete	56/R/C/W/T	-
Apron	Concrete	97/R/B/W/T	-
TWY A	Concrete/Asphalt	66/F/C/W/T	-
TWY A (between AE & B)	Concrete/Asphalt	46/F/C/W/T	-
TWY S, T & U	Concrete/Asphalt	79/R/C/W/T	-
TWY V & VA	Concrete/Asphalt	79/R/C/W/T	-
TWY VB & VC	Concrete/Asphalt	79/R/C/W/T	-
TWY W & Y	Concrete/Asphalt	79/R/C/W/T	-
TWY (All other)	Concrete/Asphalt	95/R/C/W/T	-

CHANGE (10/24): TWY Z ALIGNMENT. HOLDS Z2 & Z3.