

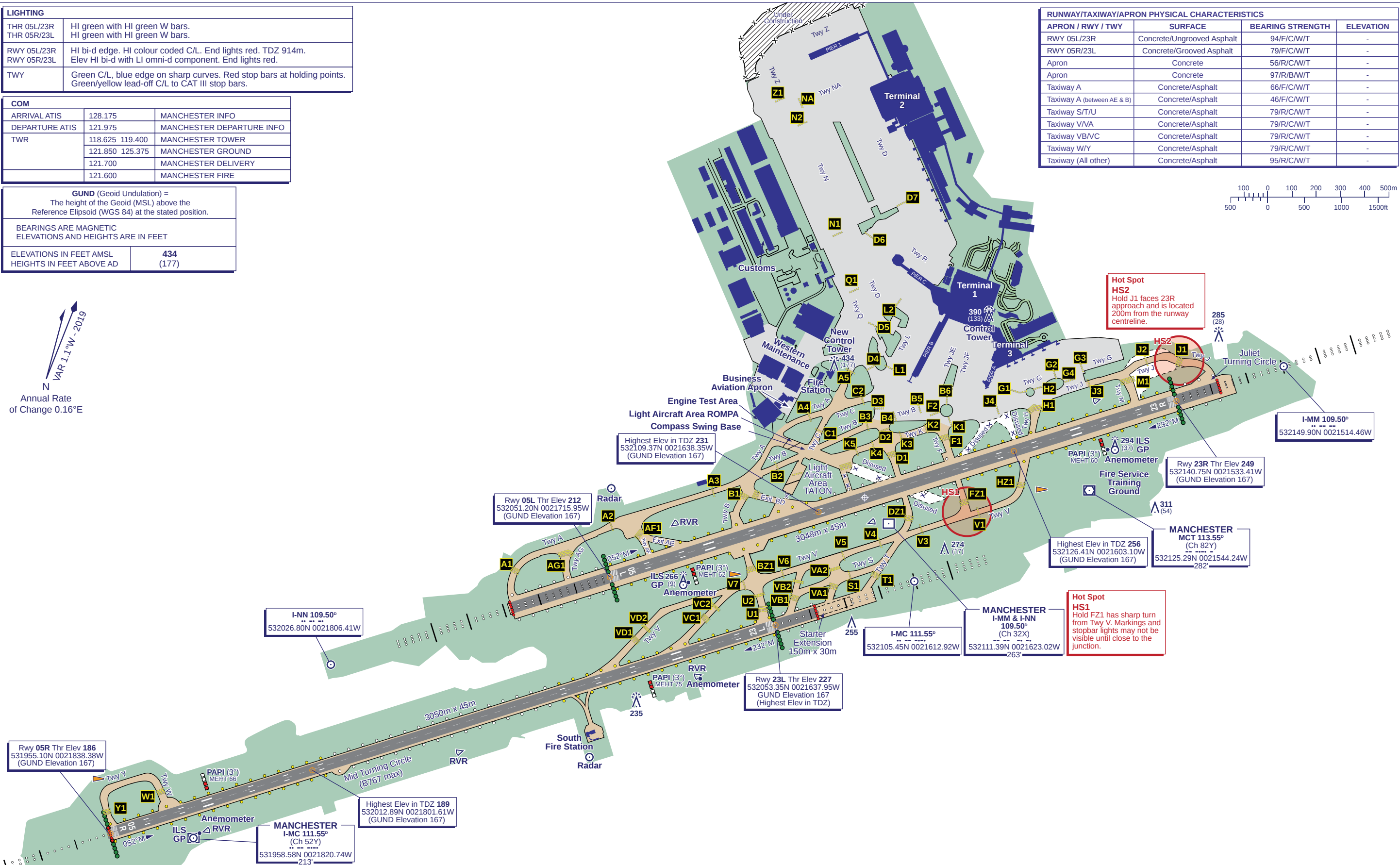
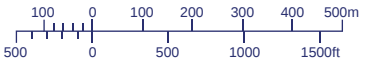
LIGHTING	
THR 05L/23R	HI green with HI green W bars.
THR 05R/23L	HI green with HI green W bars.
RWY 05L/23R	HI bi-d edge. HI colour coded C/L. End lights red. TDZ 914m.
RWY 05R/23L	HI bi-d with LI omni-d component. End lights red.
TWY	Green C/L, blue edge on sharp curves. Red stop bars at holding points. Green/yellow lead-off C/L to CAT III stop bars.

COM		
ARRIVAL ATIS	128.175	MANCHESTER INFO
DEPARTURE ATIS	121.975	MANCHESTER DEPARTURE INFO
TWR	118.625 119.400	MANCHESTER TOWER
	121.850 125.375	MANCHESTER GROUND
	121.700	MANCHESTER DELIVERY
	121.600	MANCHESTER FIRE

GUND (Geoid Undulation) = The height of the Geoid (MSL) above the Reference Ellipsoid (WGS 84) at the stated position.	
BEARINGS ARE MAGNETIC ELEVATIONS AND HEIGHTS ARE IN FEET	
ELEVATIONS IN FEET AMSL	434 (177)
HEIGHTS IN FEET ABOVE AD	

VAR 1.1°W - 2019
N
Annual Rate
of Change 0.16°E

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	-
Taxiway A	Concrete/Asphalt	66/F/C/W/T	-
Taxiway A (between AE & B)	Concrete/Asphalt	46/F/C/W/T	-
Taxiway S/T/U	Concrete/Asphalt	79/R/C/W/T	-
Taxiway V/VA	Concrete/Asphalt	79/R/C/W/T	-
Taxiway VB/VC	Concrete/Asphalt	79/R/C/W/T	-
Taxiway W/Y	Concrete/Asphalt	79/R/C/W/T	-
Taxiway (All other)	Concrete/Asphalt	95/R/C/W/T	-



CHANGE (4/19): HOLDS NA1/N3 REMOVED. HOLDS NA/N2/Z1 ADDED. TAXIWAY Z. TERMINAL 2 EXTENSIONS/PIER 1/OBSTACLE ADDED. AREA UNDER CONSTRUCTION AMENDED