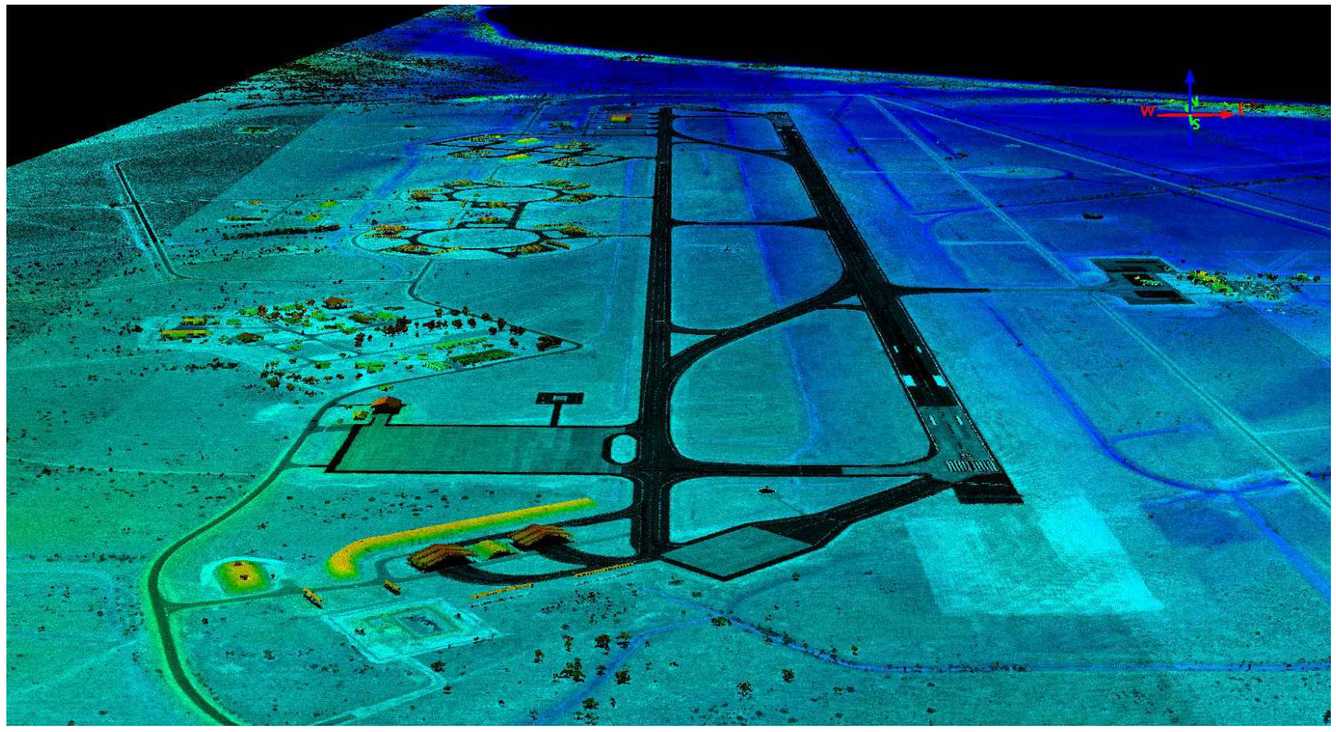
OBSTACLE LIMITATION SURVEYS AND ASSESSMENT

RAAF BASE LEARMONTH
AERODROME OBSTACLE CHART ICAO TYPE A
(OPERATING LIMITATIONS) ISSUED NOVEMBER 2024



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Australian Government
Department of Defence
Security and Estate Group

REV	DATE	REVISION DETAILS	APPROVED
A	10.11.23	FOR REVIEW	DG
B	30.11.23	100% ISSUE FOR REVIEW	DG
C	12.02.24	100% ISSUE	DG
D	25.03.24	100% ISSUE - AMMEND RWS WIDTH AS PER DEFENCE INSTRUCTION	DG
E	15.11.24	100% ISSUE - UPDATE RWS WIDTH	DG

SCALE	SIZE
AS SHOWN	A1/A3

DRAWN: MH
SURVEYED: KI/MH/AAM
CHECKED: GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DANIEL GEEVES
DATE 15/11/2024

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 COVER SHEET

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	EST09759	DRG	UU	LEA	001	E

DECLARED DISTANCES FOR RUNWAY 18	
TAKE OFF RUN AVAILABLE (TORA)	3047m (9996')
TAKE OFF DISTANCE AVAILABLE (TODA)	3352m (10997') 3.15%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	3047m (9996')
LANDING DISTANCE AVAILABLE (LDA)	3047m (9996')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	3208m (10524') 1.6%, 3256m (10682') 1.9%, 3267m (10718') 2.0%, 3289m (10790') 2.2%, 3314m (10872') 2.5%

LEGEND

- LOWEST SURVEYED SLOPE
- GROUND LEVEL
- MOST LIMITING OBSTACLE
- ① OBSTACLE

NOTES

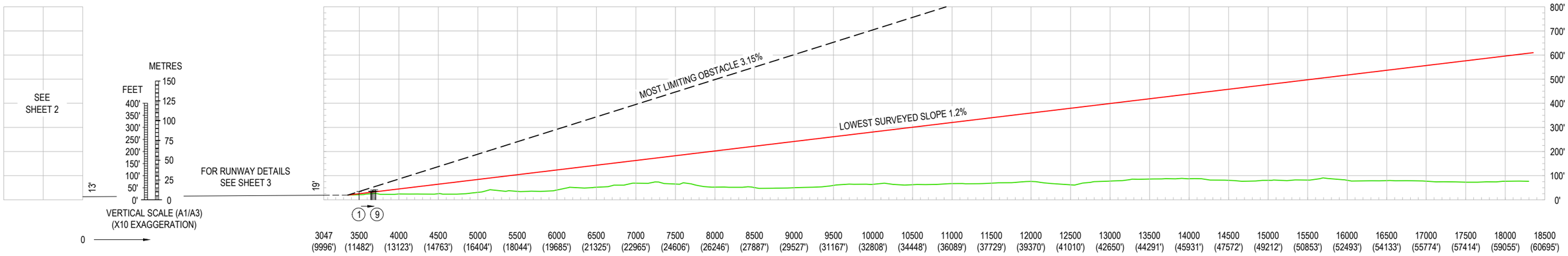
1. AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50 THE VERTICAL DATUM BEING AHD.
2. HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
3. USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO : -

   AERONAUTICAL INFORMATION SERVICE – AIR FORCE
   EMAIL: AIS.AF@DEFENCE.GOV.AU
4. FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE
5. MAGNETIC VARIATION 0°15' E (MARCH 2023)
6. AERIAL SURVEY COMPLETED MARCH 2016. GROUND SURVEY CHECKS AND VERIFICATION NOVEMBER 2022.

LEGEND

OBSTRUCTIONS AND OBSTACLES

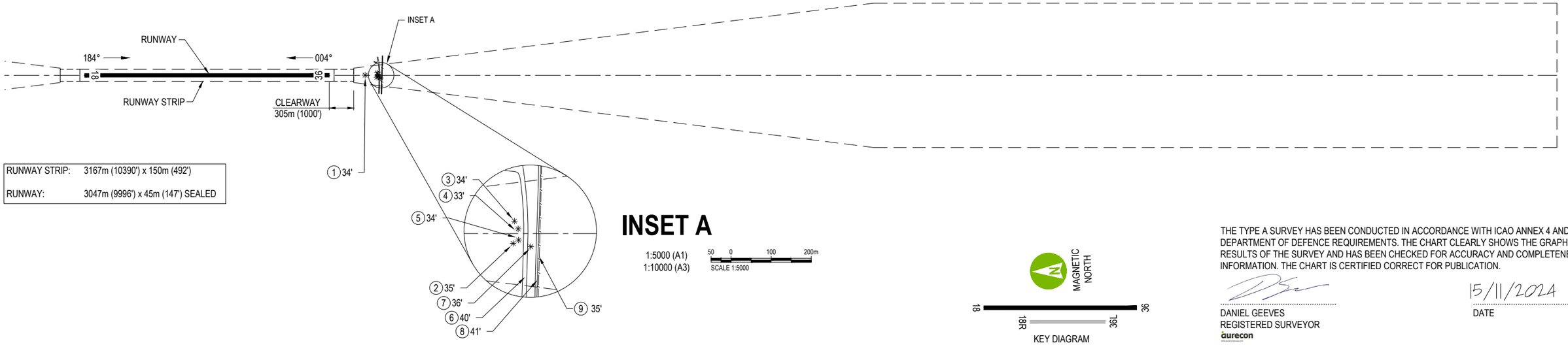
- ① OBJECT NUMBER
- 392' TOP ELEVATION IN FEET
- TREE(S) OR VEGETATION
- BUILDING OR LARGE STRUCTURE
- POLE, TOWER, SPIRE ETC
- ANTENNA
- MOVING (ROADS, RAILWAY TRACKS ETC)
- TERRAIN PENETRATING LOWEST SURVEYED SLOPE
- OVERHEAD TRANSMISSION LINE
- FENCE LINE



RUNWAY 18

1:25000 (A1)
1:50000 (A3)

250 0 500 1000m
SCALE 1:25000



RUNWAY STRIP:	3167m (10390') x 150m (492')
RUNWAY:	3047m (9996') x 45m (147') SEALED

INSET A

1:5000 (A1)
1:10000 (A3)

50 0 100 200m
SCALE 1:5000

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

15/11/2024
DATE

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CLIENT

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SCALE	AS SHOWN
SIZE	A1/A3
DRAWN	MH
SURVEYED	KI/MH/AAM
CHECKED	GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DANIEL GEEVES
DATE 15/11/2024

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 RUNWAY 18 - SHEET 1 OF 6

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	EST09759	DRG	UU	LEA	002	E

DECLARED DISTANCES FOR RUNWAY 36	
TAKE OFF RUN AVAILABLE (TORA)	3047m (9996')
TAKE OFF DISTANCE AVAILABLE (TODA)	3352m (10997') 2.40%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	3047m (9996')
LANDING DISTANCE AVAILABLE (LDA)	3047m (9996')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	3330m (10925') 1.6%, 3340m (10958') 1.9% 3343m (10967') 2.0%, 3348m (10984') 2.2%

LEGEND

- LOWEST SURVEYED SLOPE
- GROUND LEVEL
- MOST LIMITING OBSTACLE
- ① OBSTACLE

NOTES

1. AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50 THE VERTICAL DATUM BEING AHD.
2. HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
3. USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO : -

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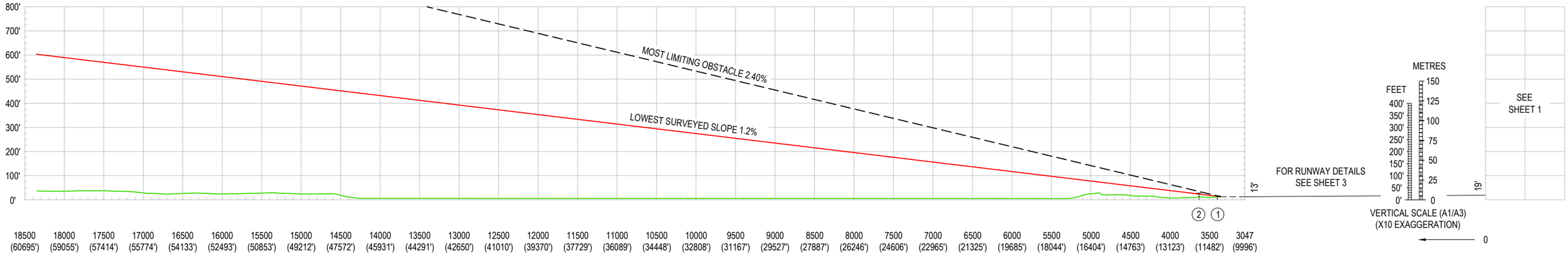
5. MAGNETIC VARIATION 0°15' E (MARCH 2023)
6. AERIAL SURVEY COMPLETED MARCH 2016. GROUND SURVEY CHECKS AND VERIFICATION NOVEMBER 2022.

LEGEND

OBSTRUCTIONS AND OBSTACLES

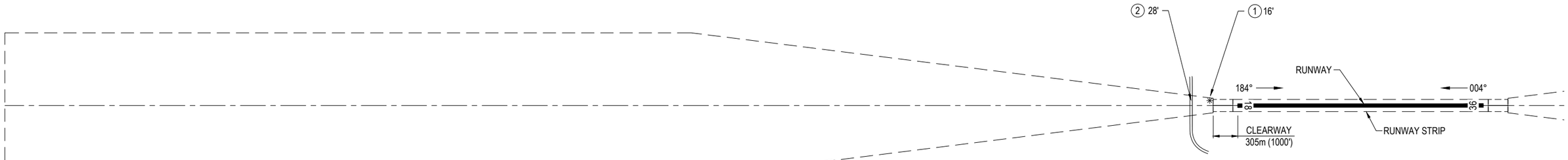
- ① OBJECT NUMBER
- 392' TOP ELEVATION IN FEET
- TREE(S) OR VEGETATION
- BUILDING OR LARGE STRUCTURE
- POLE, TOWER, SPIRE ETC
- ANTENNA
- MOVING (ROADS, RAILWAY TRACKS ETC)
- TERRAIN PENETRATING LOWEST SURVEYED SLOPE
- OVERHEAD TRANSMISSION LINE
- FENCE LINE



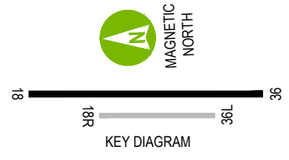
RUNWAY 36

1:25000 (A1)
1:50000 (A3)

250 0 500 1000m
SCALE 1:25000



RUNWAY STRIP:	3167m (10390') x 150m (492')
RUNWAY:	3047m (9996') x 45m (147') SEALED



KEY DIAGRAM

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

15/11/2024
DATE

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SCALE	AS SHOWN
SIZE	A1/A3
DRAWN	MH
SURVEYED	KI/MH/AAM
CHECKED	GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DATE 15/11/2024
DANIEL GEEVES

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 RUNWAY 36 - SHEET 2 OF 6

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	EST09759	DRG	UU	LEA	003	E

DEPARTMENT OF DEFENCE

SECURITY AND ESTATE GROUP

AERODROME OBSTACLE CHART - ICAO TYPE A (OPERATING LIMITATIONS) NOVEMBER 2024, COMPILED BY AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMs

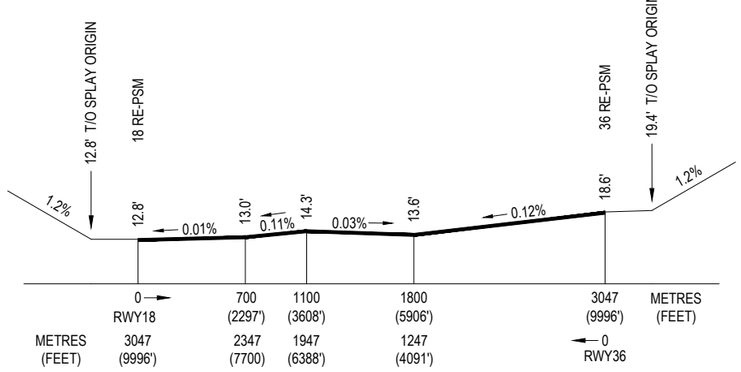
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY
DISTANCES COMMENCE FROM THE RAAF RE-PSM AT THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 180m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 12.5%
- FINAL WIDTH 1800m
- OVERALL LENGTH 15000m



18/36 RWY LONGITUDINAL SECTION
NOT TO SCALE

18 TAKE OFF

REPSM AT START OF TORA (REPSM 18)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	GEOGRAPHIC								MGA		ELEVATION										
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)	(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)	(m)	(Ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-22.2199693	-22°	13'	11.890"	114.0911514	114°	05'	28.145"	200118.84	7539944.79	3.9	12.8	183°	36'	36.076"	3047	9996	3352	10997	5.9	19.4

OBJECTS THAT APPEAR ON THE CHART

REF No	GEOGRAPHIC								MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET			GRADIENT TO TOP
	LAT				LONG				EASTING	NORTHING									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)			(m)	(FT)		(m)	(FT)	(m)	(FT)	LEFT/RIGHT	%
1	-22.251449	-22°	15'	05.21"	114.088891	114°	05'	20.00"	199952.76	7536452.59	10.4	34.0	TREE	3493.7	11462.1	2.1	6.9	L	3.15
2	-22.252761	-22°	15'	09.94"	114.088536	114°	05'	18.72"	199918.92	7536306.50	10.7	35.2	TREE	3641.1	11945.9	24.6	80.8	R	1.67
3	-22.252825	-22°	15'	10.17"	114.089072	114°	05'	20.66"	199974.42	7536300.48	10.4	34.1	TREE	3644.4	11956.8	31.0	101.9	L	1.54
4	-22.252897	-22°	15'	10.42"	114.088881	114°	05'	19.97"	199954.80	7536292.16	10.1	33.2	TREE	3653.7	11987.2	11.9	38.9	L	1.40
5	-22.252890	-22°	15'	10.40"	114.088610	114°	05'	18.99"	199926.86	7536292.43	10.4	34.2	TREE	3654.8	11990.7	16.0	52.6	R	1.49
6	-22.252956	-22°	15'	10.64"	114.087681	114°	05'	15.65"	199831.17	7536283.24	12.3	40.2	MOVING	3668.5	12035.9	111.1	364.5	R	2.01
7	-22.253155	-22°	15'	11.35"	114.088431	114°	05'	18.35"	199908.95	7536262.73	11.0	36.1	TREE	3685.3	12090.8	32.5	106.6	R	1.53
8	-22.253252	-22°	15'	11.70"	114.087591	114°	05'	15.32"	199822.56	7536250.31	12.6	41.3	MOVING	3701.8	12145.1	118.1	387.5	R	1.92
9	-22.253317	-22°	15'	11.94"	114.088162	114°	05'	17.38"	199881.56	7536244.20	10.6	34.7	FENCE	3705.1	12155.8	58.9	193.3	R	1.32

36 TAKE OFF

REPSM AT START OF TORA (REPSM 36)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	GEOGRAPHIC								MGA		ELEVATION										
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)	(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)	(m)	(Ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-22.2474242	-22°	14'	50.727"	114.0891620	114°	05'	20.983"	199972.14	7536899.07	5.7	18.6	3°	36'	36.076"	3047	9996	3352	10997	3.9	12.8

OBJECTS THAT APPEAR ON THE CHART

REF No	GEOGRAPHIC								MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET			GRADIENT TO TOP
	LAT				LONG				EASTING	NORTHING									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)			(m)	(FT)		(m)	(FT)	(m)	(FT)	LEFT/RIGHT	%
1	-22.216873	-22°	13'	00.74"	114.091978	114°	05'	31.12"	200197.55	7540289.43	4.9	16.2	TREE	3394.9	11138.0	62.0	203.4	R	2.40
2	-22.214784	-22°	12'	53.22"	114.092200	114°	05'	31.91"	200215.93	7540521.37	8.4	27.6	MOVING	3627.3	11900.4	69.2	227.0	R	1.64

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

15/11/2024
DATE

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www.aurecongroup.com

CLIENT

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Department of Defence
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REV	DATE	REVISION DETAILS	APPROVED
A	10.11.23	FOR REVIEW	DG
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SCALE	SIZE
AS SHOWN	A1/A3

DRAWN: MH
SURVEYED: KI/MH/AAM
CHECKED: GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DANIEL GEEVES
DATE 15/11/2024

PROJECT: OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH

TITLE: AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 RUNWAY 18 & 36 - SHEET 3 OF 6

DRAWING No.

PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
520002	EST09759	DRG	UU	LEA	004	E

DECLARED DISTANCES FOR EMERGENCY RUNWAY 18R (TWY A)	
TAKE OFF RUN AVAILABLE (TORA)	1502m (4927')
TAKE OFF DISTANCE AVAILABLE (TODA)	1562m (10997') 1.68%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	1502m (4927')
LANDING DISTANCE AVAILABLE (LDA)	1502m (4927')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	1521m (4990') 1.6%

LEGEND

- LOWEST SURVEYED SLOPE
- GROUND LEVEL
- MOST LIMITING OBSTACLE
- ① OBSTACLE

NOTES

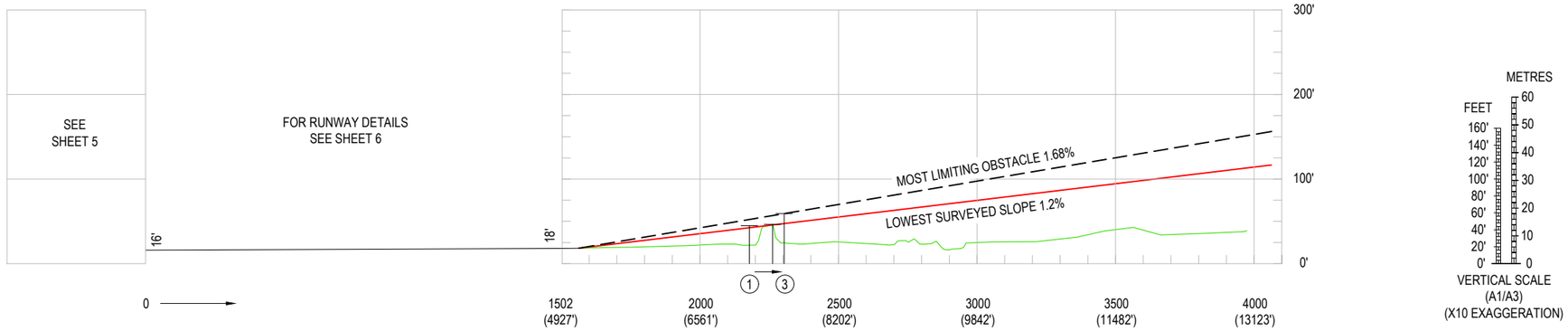
1. AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50 THE VERTICAL DATUM BEING AHD.
2. HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
3. USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO : -

   AERONAUTICAL INFORMATION SERVICE – AIR FORCE
   EMAIL: AIS.AF@DEFENCE.GOV.AU
4. FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE
5. MAGNETIC VARIATION 0°15' E (MARCH 2023)
6. AERIAL SURVEY COMPLETED MARCH 2016. GROUND SURVEY CHECKS AND VERIFICATION NOVEMBER 2022.

LEGEND

OBSTRUCTIONS AND OBSTACLES

- ① OBJECT NUMBER
- 392' TOP ELEVATION IN FEET
- TREE(S) OR VEGETATION
- BUILDING OR LARGE STRUCTURE
- POLE, TOWER, SPIRE ETC
- ANTENNA
- MOVING (ROADS, RAILWAY TRACKS ETC)
- TERRAIN PENETRATING LOWEST SURVEYED SLOPE
- OVERHEAD TRANSMISSION LINE
- FENCE LINE

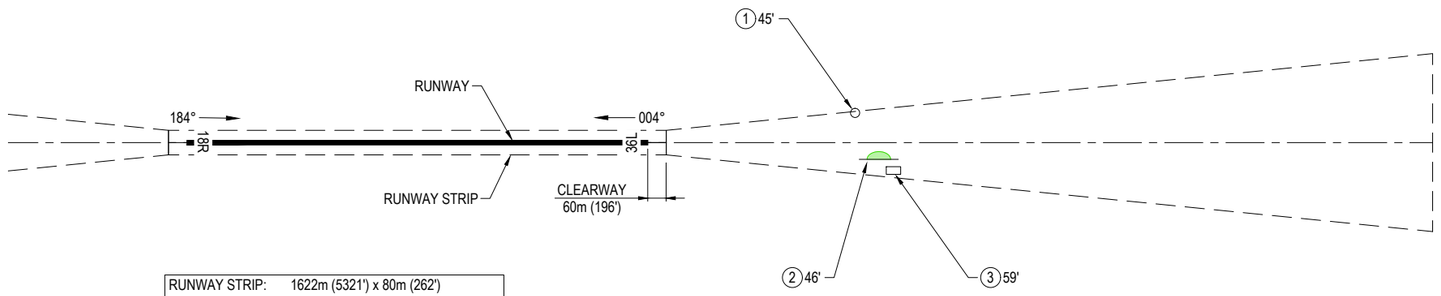


EMERGENCY RUNWAY 18R

TWY A (CODE 2)

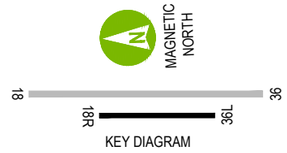
1:10000 (A1)
1:20000 (A3)

100 0 200 400m
SCALE 1:10000



RUNWAY STRIP:	1622m (5321') x 80m (262')
RUNWAY:	1502m (4927') x 15m (49') SEALED

RUNWAY 18R (TWY A) SURVEY HAS BEEN ASSESSED BASED ON THE FOLLOWING "CODE 2" TAKE-OFF PARAMETERS FOR AN EMERGENCY RUNWAY:
LENGTH OF INNER EDGE - 80m
RATE OF DIVERGENCE (EACH SIDE) - 10%
FINAL WIDTH - 580m
OVERALL LENGTH - 2500m



KEY DIAGRAM

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SIZE	A1/A3
DRAWN	MH
SURVEYED	KI/MH/AAM
CHECKED	GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DATE 15/11/2024
DANIEL GEEVES

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 EMERGENCY RUNWAY 18R - SHEET 4 OF 6

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	– EST09759	– DRG	– UU	– LEA	– 005	– E

DECLARED DISTANCES FOR EMERGENCY RUNWAY 36L (TWY A)	
TAKE OFF RUN AVAILABLE (TORA)	1502m (4927')
TAKE OFF DISTANCE AVAILABLE (TODA)	1562m (10997') 2.36%
ACCELERATE STOP DISTANCE AVAILABLE (ASDA)	1502m (4927')
LANDING DISTANCE AVAILABLE (LDA)	1502m (4927')
SUPPLEMENTARY TAKE OFF DISTANCE AVAILABLE (STODA)	1242m (4074') 1.6%, 1398m (4586') 1.9% 1432m (4698') 2.0%, 1513m (4963') 2.2%

LEGEND

- LOWEST SURVEYED SLOPE
- GROUND LEVEL
- MOST LIMITING OBSTACLE
- ① OBSTACLE

NOTES

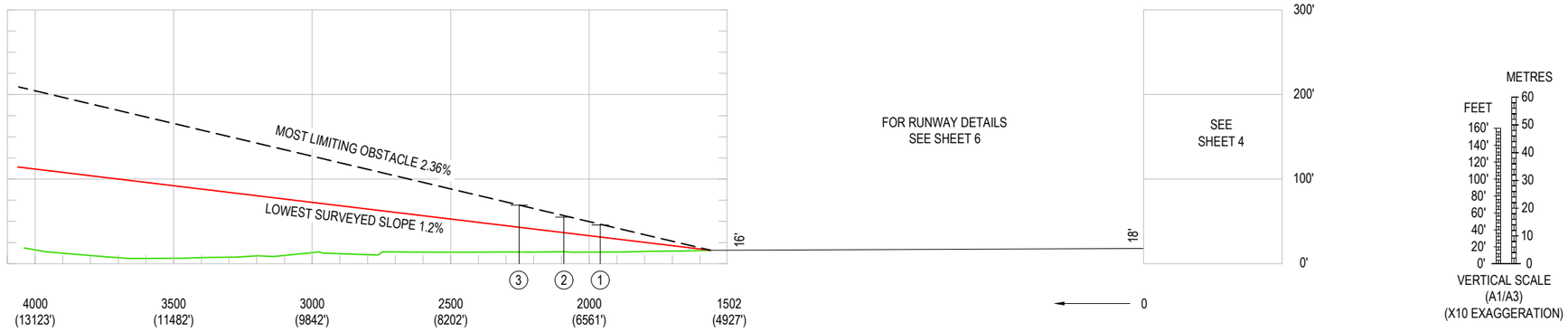
1. AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50 THE VERTICAL DATUM BEING AHD.
2. HORIZONTAL DIMENSIONS IN METRES (FEET) ELEVATIONS IN FEET
3. USERS OF THIS CHART SHOULD NOTIFY ANY ERRORS OR OMISSIONS AS SOON AS THEY BECOME APPARENT TO : -

   AERONAUTICAL INFORMATION SERVICE – AIR FORCE
   EMAIL: AIS.AF@DEFENCE.GOV.AU
4. FOR FURTHER INFORMATION REGARDING THIS CHART CONTACT THE ABOVE
5. MAGNETIC VARIATION 0°15' E (MARCH 2023)
6. AERIAL SURVEY COMPLETED MARCH 2016.
   GROUND SURVEY CHECKS AND VERIFICATION NOVEMBER 2022.

LEGEND

OBSTRUCTIONS AND OBSTACLES

- ① OBJECT NUMBER
- 392' TOP ELEVATION IN FEET
- TREE(S) OR VEGETATION
- BUILDING OR LARGE STRUCTURE
- POLE, TOWER, SPIRE ETC
- ANTENNA
- MOVING (ROADS, RAILWAY TRACKS ETC)
- TERRAIN PENETRATING LOWEST SURVEYED SLOPE
- OVERHEAD TRANSMISSION LINE
- FENCE LINE

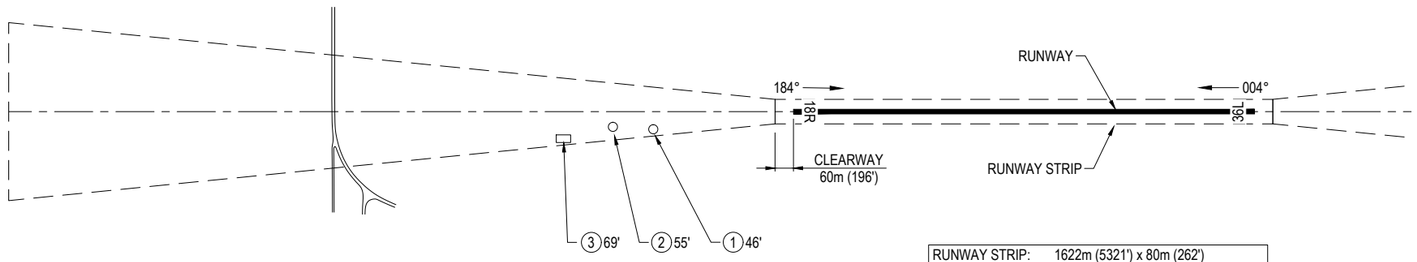


EMERGENCY RUNWAY 36L

TWY A (CODE 2)

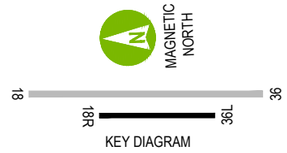
1:10000 (A1)
1:20000 (A3)

100 0 200 400m
SCALE 1:10000



RUNWAY STRIP:	1622m (5321') x 80m (262')
RUNWAY:	1502m (4927') x 15m (49') SEALED

RUNWAY 36L (TWY A) SURVEY HAS BEEN ASSESSED BASED ON THE FOLLOWING "CODE 2" TAKE-OFF PARAMETERS FOR AN EMERGENCY RUNWAY:
LENGTH OF INNER EDGE - 80m
RATE OF DIVERGENCE (EACH SIDE) - 10%
FINAL WIDTH - 580m
OVERALL LENGTH - 2500m



KEY DIAGRAM

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

DANIEL GEEVES
REGISTERED SURVEYOR
aurecon

15/11/2024
DATE

aurecon
www.aurecongroup.com

CLIENT

Australian Government
Department of Defence
Security and Estate Group

REV	DATE	REVISION DETAILS	APPROVED
A	10.11.23	FOR REVIEW	DG
B	30.11.23	100% ISSUE FOR REVIEW	DG
C	12.02.24	100% ISSUE	DG
D	25.03.24	100% ISSUE - AMMEND RWS WIDTH AS PER DEFENCE INSTRUCTION	DG
E	15.11.24	100% ISSUE - UPDATE RWS WIDTH	DG

SCALE	SIZE
AS SHOWN	A1/A3

DRAWN: MH
SURVEYED: KI/MH/AAM
CHECKED: GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DANIEL GEEVES
DATE 15/11/2024

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 EMERGENCY RUNWAY 36L - SHEET 5 OF 6

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	– EST09759	– DRG	– UU	– LEA	– 006	– E

DEPARTMENT OF DEFENCE

SECURITY AND ESTATE GROUP

AERODROME OBSTACLE CHART - ICAO TYPE A (OPERATING LIMITATIONS) NOVEMBER 2024, COMPILED BY AURECON

TO BE READ IN CONJUNCTION WITH CURRENT NOTAMs

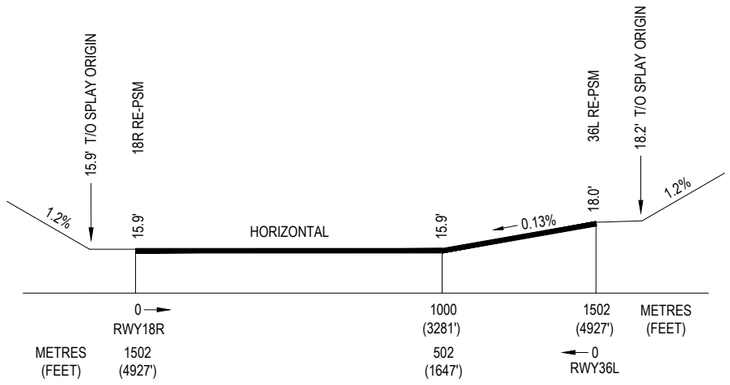
THE ORIGIN OF THE TAKE OFF SURFACE IS LOCATED AT THE END OF THE CLEARWAY
DISTANCES COMMENCE FROM THE RAAF RE-PSM AT THE START OF THE TAKE-OFF RUNWAY (SOT)

DATUM

AZIMUTH AND COORDINATES FOR THIS SURVEY ARE BASED ON MGA2020 ZONE 50
THE VERTICAL DATUM BEING AHD.

DEFINITIONS

- RE-PSM: RUNWAY END PERMANENT SURVEY MARK
- LENGTH OF INNER EDGE 80m
- RATE OF DIVERGENCE OF SPLAY (EACH SIDE) 10%
- FINAL WIDTH 580m
- OVERALL LENGTH 2500m



18R/36L (TWY A) EMERGENCY RWY LONGITUDINAL SECTION
NOT TO SCALE

18R TAKE OFF (TWY A)

REPSM AT START OF TORA (REPSM 18R)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	GEOGRAPHIC								MGA		ELEVATION										
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)	(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)	(m)	(Ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-22.2280889	-22°	13'	41.120"	114.0878414	114°	05'	16.229"	199794.70	7539038.64	4.8	15.9	183°	36'	31.372"	1502	4927	1562	5124	5.6	18.2

OBJECTS THAT APPEAR ON THE CHART

REF No	GEOGRAPHIC								MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET			GRADIENT TO TOP
	LAT				LONG				EASTING	NORTHING									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)			(m)	(FT)		(m)	(FT)	(m)	(FT)	LEFT/RIGHT	%
1	-22.247773	-22°	14'	51.98"	114.087354	114°	05'	14.47"	199786.41	7536856.87	13.7	44.8	WINDSOCK	2178.1	7146.0	96.6	316.8	L	1.32
2	-22.248114	-22°	14'	53.21"	114.085851	114°	05'	09.06"	199632.16	7536816.04	13.9	45.5	EARTH BUND	2226.3	7304.0	55.4	181.9	R	1.25
3	-22.248786	-22°	14'	55.62"	114.085457	114°	05'	07.64"	199592.95	7536740.84	18.0	59.1	HANGER	2303.2	7556.4	91.0	298.4	R	1.68

36L TAKE OFF (TWY A)

REPSM AT START OF TORA (REPSM 36L)													RUNWAY MAGNETIC BEARING			TORA		TODA		ELEVATION AT T.O. ORIGIN	
	GEOGRAPHIC								MGA		ELEVATION										
	LAT				LONG				EASTING	NORTHING	(m)	(Ft)	(DEG)	(MIN)	(SEC)	(m)	(Ft)	(m)	(Ft)	(m)	(Ft)
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)													
	-22.2416271	-22°	14'	29.858"	114.0868605	114°	05'	12.698"	199722.40	7537536.76	5.5	18.0	3°	36'	31.372"	1502	4927	1562	5124	4.8	15.9

OBJECTS THAT APPEAR ON THE CHART

REF No	GEOGRAPHIC								MGA		ELEVATION TOP		TYPE OF OBSTACLE	DISTANCE FROM SOT		OFFSET			GRADIENT TO TOP
	LAT				LONG				EASTING	NORTHING									
	DECIMAL DEG	(DEG)	(MIN)	(SEC)	DECIMAL DEG	(DEG)	(MIN)	(SEC)			(m)	(FT)		(m)	(FT)	(m)	(FT)	LEFT/RIGHT	%
1	-22.223935	-22°	13'	26.16"	114.087583	114°	05'	15.30"	199759.23	7539498.37	13.9	45.7	LIGHT POLE	1959.7	6429.5	57.5	188.6	L	2.29
2	-22.222754	-22°	13'	21.91"	114.087744	114°	05'	15.87"	199773.32	7539629.52	16.8	55.0	LIGHT POLE	2091.3	6861.2	49.7	163.2	L	2.25
3	-22.221278	-22°	13'	16.59"	114.087477	114°	05'	14.91"	199742.61	7539792.54	21.1	69.3	HANGER	2252.5	7390.2	88.2	289.4	L	2.36

THE TYPE A SURVEY HAS BEEN CONDUCTED IN ACCORDANCE WITH ICAO ANNEX 4 AND DEPARTMENT OF DEFENCE REQUIREMENTS. THE CHART CLEARLY SHOWS THE GRAPHICAL RESULTS OF THE SURVEY AND HAS BEEN CHECKED FOR ACCURACY AND COMPLETENESS OF INFORMATION. THE CHART IS CERTIFIED CORRECT FOR PUBLICATION.

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SCALE	SIZE
AS SHOWN	A1/A3
DRAWN	MH
SURVEYED	KI/MH/AAM
CHECKED	GH

FOR ISSUE
NOT FOR CONSTRUCTION

APPROVED
DATE 15/11/2024
DANIEL GEEVES

PROJECT	OBSTACLE LIMITATION SURVEYS AND ASSESSMENT RAAF BASE LEARMONTH
TITLE	AERODROME OBSTACLE CHART ICAO TYPE A (OPERATING LIMITATIONS) ISSUED NOVEMBER 2024 EMERGENCY RUNWAY 18R & 36L - SHEET 6 OF 6

DRAWING No.	PROJECT No.	WBS	TYPE	DISC	SITE	NUMBER	REV
	520002	EST09759	DRG	UU	LEA	007	E