

MISSION DATA CARD						
OPORD		Callsign		Mission		Date/Time
657/2022		Tiger 2		Training		282000FEB22
Task	IFR & GPS Guided Training					Freq
AO	NTTR					261.25
Departure				Recovery		
DREAM FOUR				HI-TACAN Y RWY 21L		
#	Callsign	Pilot		IFF	TCN	LSR NET
-1	Tiger 2-1	Retai		1021	12Y	1561 01/01

LOADOUT			
A/A	A9X, A120C	GUN	100% HEI-T
A/G	2xA154C	CHF	90
POD	TGP, AT50	FLR	30
TKS	FPU-8A	FUEL	100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	13047			3500	

AIRBASES								
	Name	TCN	ATIS	GND	TWR	RWY	Elev	ILS
Dep	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Arr	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1
Div	Nellis AFB	12X	270.1	275.8	327.0	21L	1850	109.1

FLIGHTPLAN				
#	Name	Navaid/Coords/DME	ALT	TOT
1	DREAM	LAS 354/66 BLD 342/71 (N37 10 20.400 W114 59 31.800)	10000	
2	Range 61A	N37 08.658 W115 30.535	20000	
3	T61.01	N37 09.575 W115 25.575	3822	
4	T61.03	N37 09.087 W115 23.513	3778	
5	ARR AR635	N38 30 23.964 W115 21 00.951	22000	
6	TROUTT	N37 16 59.777 W115 07 30.547	20000	
7	ARCOE	LSV 357/30 (N36 44.260 W114 55.020)	15000	
8	DUDBE	N36 21.849 W115 20.581	15000	
9	Nellis AFB	N36 13 32 W115 02 37	1843	

COMMS	
Radio	Usage
1	11, 3, 4, 16, 11, 4, 3
2	Inhouse 261.25, Approach 273.55, Final 123.45
3	MIDS A:23 / B:46

NOTES

<https://www.virtual-jabog32.de/forum/viewtopic.php?f=73&t=14554>

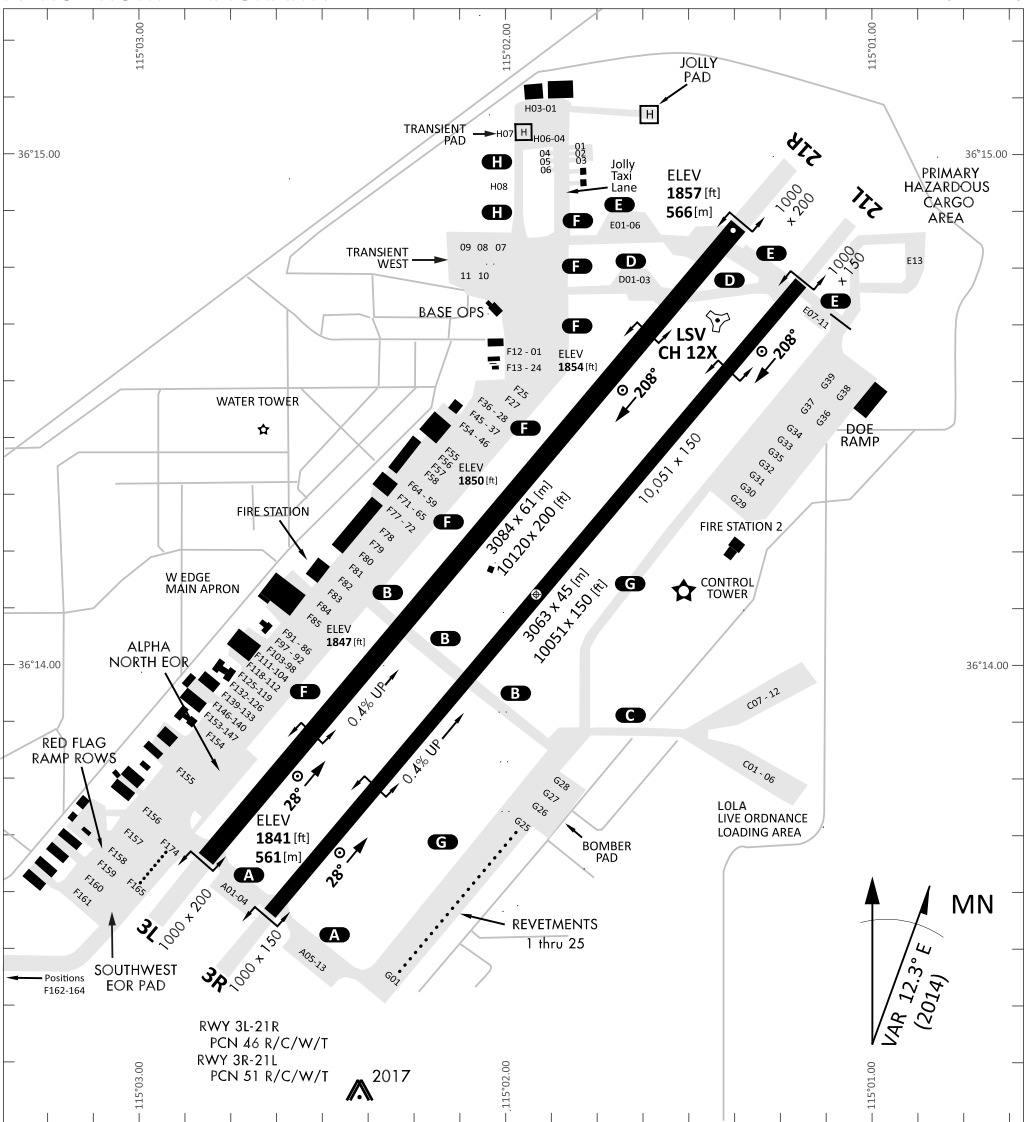
SUPPORT					
Tanker					
Callsign		TCN	Freq	ALT	TAS
ARCO 1		113Y	319.8	FL250	450
	Pos	AR-625: MVA 168/77 (N3717 W11802)			
SHELL 2		115Y	360.8	FL250	430
	Pos	AR-635: MLF 260/127 (N3831 W11542)			
AWACS					
Callsign	Freq	ALT	Pos		
MAGIC	377.8	FL270	N3749 W11417 - N3713 W11446		

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	Grpld	Laser
Boar 1	Training	2x Ka-50	261.35	1/64		156X
	AO		Task	IFR		
Tiger 1	Training	3x F/A-18C	261.15	11/74	1	155X
	AO	NTTR	Task	IFR Training		
Monster 1	Training	3x A-10C	132.15	25/88	21	161X
	AO		Task	IFR		
T-Rex 2	Training	4x A-10C	132.25	27/90	25	165X
	AO		Task	ILS Training		
Cougar 1	Training	4x F-14B	264.25	20/83		156X
	AO		Task	IFR		
Edelweiss 1	Training	3x F/A-18C	264.15	34/97	1	170X
	AO	NTTR	Task	IFR Training		
Playboy 1	Training	1x F/A-18C	132.25	27/90	25	165X
	AO		Task	ILS Training		
T-Rex 2	Training	4x A-10C	132.25	27/90	25	165X
	AO		Task	ILS Training		

RADIO CHANNELS		
#	Freq	Name
1		Flight/Squadron specific
2	289.4	Nellis Clearance Delivery
3	275.8	Nellis Ground
4	327.0	Nellis Tower
5	385.4	Nellis Approach/Departure West
6	273.55	Nellis Approach/Departure East
7	317.525	Nellis Control -- Sally
8	254.4	Nellis Control-- Lee
9	305.6	SOF Bullseye
10	343.725	EMERGENCY SINGLE FRQ
11	270.1	Nellis ATIS
12	360.625	Creech AFB Tower
13	250.1	HAVE QUICK 13
14	251.1	HAVE QUICK 14
15	252.1	HAVE QUICK 15
16	377.8	Blackjack
17	265.0	KC-135 AR-641A
18	360.8	KC-135MPRS AR-635
19	319.8	KC-135MPRS AR-625
20	300.05	KC-135 AR-231V

RAMROD										
0	1	2	3	4	5	6	7	8	9	
B	I	N	O	C	U	L	A	R	S	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	NQFD	LUP	BEO	VW	TC	AJK	RH	IY	XM	SG
B	KPQG	ESO	UFR	WL	NC	YJD	BT	HA	XM	VI
C	VKIS	QRO	FHC	XL	TN	MYP	DJ	EA	WB	UG
D	PRJH	GNU	KWC	XO	AF	VLD	BI	SQ	TE	MY
E	YVPJ	RTA	XIB	OM	FE	GKD	CW	LQ	NU	SH
F	ICSR	OEJ	YPW	LF	MB	DNA	UH	KQ	TX	VG
G	SHFM	GRC	XNB	VI	AJ	PLO	YE	WU	QK	TD
H	GAVX	NBO	FMQ	EI	LJ	CST	YR	WP	KD	HU
I	EFMV	LKX	JUD	YP	BS	CRH	TO	AI	GQ	WN
J	OCWN	LDP	FSR	KI	JQ	YTM	GV	AU	XE	HB
K	AOHN	GBL	FKU	TJ	RV	SPC	IQ	DE	XM	WY
L	NEPB	KTA	VOD	CW	QI	YFM	SX	LJ	RU	HG
M	WSIO	LEB	JDQ	MH	NP	RXV	FC	AG	KU	TY
N	OKNE	PQJ	RFB	IH	YM	SAU	VG	CL	TD	XW
O	KIAM	QTL	JNS	YX	BU	DEH	GP	WC	FR	OV
P	YQFT	AKN	CDB	VJ	PE	OGR	IL	SH	MW	UX
Q	GUSB	QJR	LYM	AI	VH	TED	OK	PN	WX	FC
R	SMOW	QUJ	ABE	PR	GY	CTX	NK	FD	HV	LI
S	WIMV	QRN	XYO	BF	UP	EDT	LA	HS	GC	KJ
T	RVQY	HUB	WDO	PG	AC	MIF	LN	XE	KJ	ST
U	HODS	XMQ	VTK	BC	PU	EWf	RJ	YN	LG	IA
V	XBPQ	DFM	OER	YC	AI	GWN	JV	TU	LS	HK
W	UBEX	JNP	FWC	DV	SQ	MYK	AT	LI	HR	GO
X	UENS	PMH	OJQ	CX	KG	YDL	FA	VW	TB	IR
Y	BDJT	POH	LFV	SC	KR	UIA	XM	GY	EW	NQ

NAVAIDS				
Id	Name	Channel	Position	Elevation
BCE	Bryce Canyon	75	N3741.35 W11218.23	9040
BIH	Bishop	33	N3722.62 W11821.99	4114
BLD	Boulder	114	N3559.75 W11451.82	3650
BTY	Beatty	94	N3648.54 W11644.86	2925
CDC	Cedar City	120	N3747.24 W11304.90	5463
DAG	Daggett	79	N3457.75 W11634.69	1760
EED	Needles	99	N3445.96 W11428.43	650
GFS	Goffs	91	N3507.87 W11510.59	4019
GRL	Groom Lake	18	N3713.91 W11548.16	4475
HEC	Hector	74	N3447.83 W11627.78	1854
ILC	Wilson Creek	110	N3815.02 W11423.65	9318
INS	Creech AFB	87	N3635.20 W11540.12	3101
LAS	McCarran Intl	116	N3604.78 W11509.59	2142
LSV	Nellis	12	N3614.68 W11501.50	1864
MLF	Milford	58	N3821.62 W11300.79	4977
MMM	Mormon Mesa	90	N3646.16 W11416.65	2120
MVA	Mina	98	N3833.92 W11801.97	7860
OAL	Coale Dale	124	N3800.20 W11746.23	4800
PGS	Peach Springs	57	N3537.48 W11332.67	4754
TPH	Tonopah Muni	119	N3801.84 W11702.01	5330
TQQ	Silverbow	77	N3748.00 W11647.00	5500
UTI	St George	23	N3705.29 W11335.53	2871



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:35'500	
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]	
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°	115° 01.058° W	566 [m]	0 1000 2000 3000 4000 5000 [ft]	
SRA	21R	A C D E	2257 - 1.2 350 (350-1.2/1.6)				
	3L	A C D E	2257 - 1.2 350 (350-1.2/1.6)				

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
21L	10051 [ft] 3063 [m]	11051 [ft] 3368 [m]	11051 [ft] 3368 [m]	10051 [ft] 3063 [m]	36°14.043°N 115°01.018°W	⊕
3R	10120 [ft] 3084 [m]	11120 [ft] 3398 [m]	11120 [ft] 3398 [m]	10120 [ft] 3084 [m]	36°13.029°N 115°02.038°W	

ATIS	NELLIS GROUND	NELLIS TOWER	NELLIS CONTROL	TACAN	ILS RWY 21L	NELLIS EAST	NELLIS WEST
270.100 Mhz	275.800 121.800	327.000 132.55	317.525	LSV 12X	109.10 Mhz	384.400	385.000

ATIS
270.100
NELLIS GROUND
275.800
NELLIS TOWER
327.000
NELLIS CONTROL
317.525
NELLIS DEP/APP EAST
384.400
BLACKJACK
377.800

DREAM
N3710.34
W11459.53

MINTT
LAS 351/38
17,000

Rwy	Knots	60	120	180	240	300	360
* 3 L (a)	V/Vl(fpm)	269	538	807	1076	1345	1614
* 3 R (b)	V/Vl(fpm)	245	490	735	980	1225	1470
† 3 L (c)	V/Vl(fpm)	498	996	1494	1992	2490	2988
† 3 R (c)	V/Vl(fpm)	496	992	1488	1984	2480	2976
* 21 L (d)	V/Vl(fpm)	389	778	1167	1556	1945	2334
* 21 R (d)	V/Vl(fpm)	395	790	1185	1580	1975	2370
† 21 L (c)	V/Vl(fpm)	453	906	1359	1812	2265	2718
† 21 R (c)	V/Vl(fpm)	457	914	1371	1828	2285	2742

* Minimum † ATC Climb Rate

- (a) to 3600
- (b) to 3100
- (c) to 17,000
- (d) to 8500

** Lead DME:
ATALF - LSV 9.5
HEREM - LSV 8.8

- ① 12.24 NM from Rwy 21R
- ② 12.40 NM from Rwy 21L
- ③ 5.67 NM from Rwy 3L
- ④ 5.85 NM from Rwy 3R

NOT FOR CIVIL USE

CAUTION: If unable to comply with restrictions advise ATC prior to departure.

LAS VEGAS
116.9 LAS
Chan 116

NELLIS
Chan 12 LSV

BOULDER CITY
116.7 BLD
Chan 114

VAR 12.3°E

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L

- Fly runway heading to intercept the LSV TACAN R-028 then direct ATALF, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 3R

- Fly runway heading to intercept the LSV TACAN R-031 then direct HEREM, intercept the BLD VORTAC R-346 then direct JUNNO, cross JUNNO at or above 17,000, then via assigned route.

TAKE-OFF RWY 21L/R

- Turn right to intercept LAS VORTAC R-351 outbound. Remain North of LAS 7.5 DME turning Northbound. Intercept LAS R-351 between 5000 and 6000, do not proceed West of LAS R-351. Cross MINTT at or above 17,000, then via assigned route.

NOISE ABATMENT PROCEDURES: Fly acc. Nellis Noise Abatement instructions

HI-TACAN Y RWY 21L

TACAN LSV
Chan 12

APCH CRS
210°

Rwy ldg 21L 10,051
TDZE 1865
Arpt Elev 1869

Rwy ldg 21R 10,120
TDZE 1869

JAL-227 [USAF]

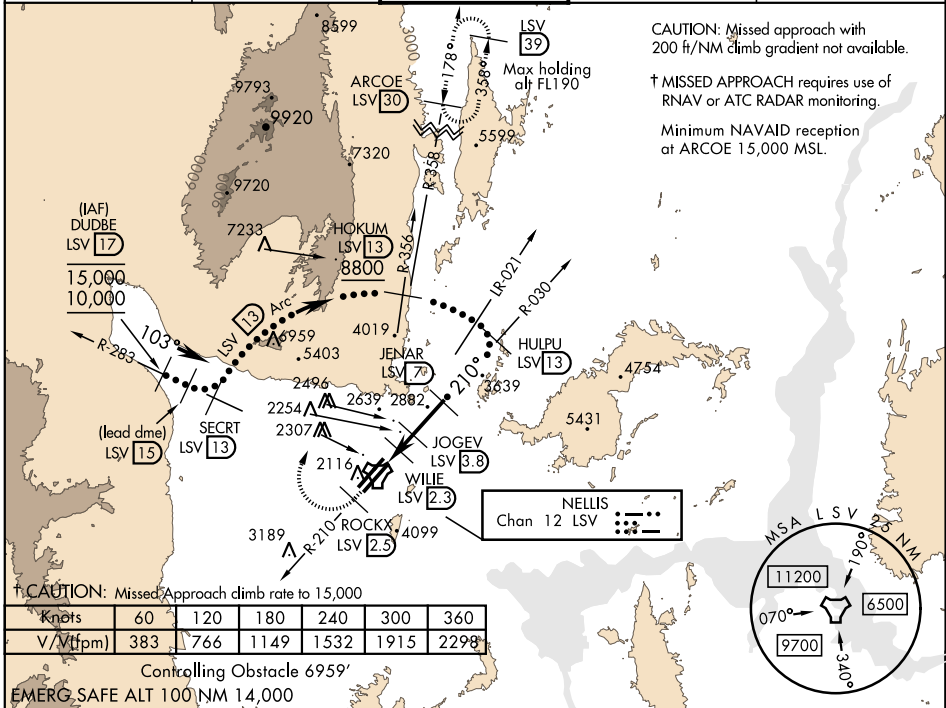
NELLIS AFB (KLSV)

⚠ * When ALS inop, increase CAT CDE vis to 1¾ miles.
** Circling not authorized E of Rwy 3R-21L.

ALSF-1
A1

† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV R-358 to ARCOE and hold, continue climb in hold to 15,000. Missed approach not for civil use.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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VGSI and descent angles not coincident (VGSI angle 3.00/TCH 54).

ELEV 1869

ROCKX LSV 2.5

ARCOC R-358 30

TDZE 21L 1865

TDZE 21R 1869

TACAN

KITCH 7

WILLIE 2.3

JOGEV 3.8

JENAR 7

HULPU 13

5300

4400

2540

3200

†† JENAR to MAP

3.41° TCH 54

CATEGORY	C	D	E
S-21L *	2460-1¼	595 (600-1¼)	
SIDESTEP 21R	2460-1	591 (600-1)	
CIRCLING **	2620-2¼ 751 (800-2¼)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)

1921

1951

2011

1889

211

21R

210° to TACAN

1978

2022

31 3R

HIRL all Rwy

HI-TACAN Y RWY 21L

HI-TACAN Z RWY 21L

TACAN LSV Chan 12	APCH CRS 210°	Rwy ldg 21L 10,051 TDZE 1865 Arpt Elev 1869	Rwy ldg 21R 10,120 TDZE 1869
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JAL-227 [USAF]

NELLIS AFB (KLSV)

▼* When ALS inop, increase CAT CDE vis to 1 1/4 miles.
 ** Circling not authorized E of Rwy 3R-21L.



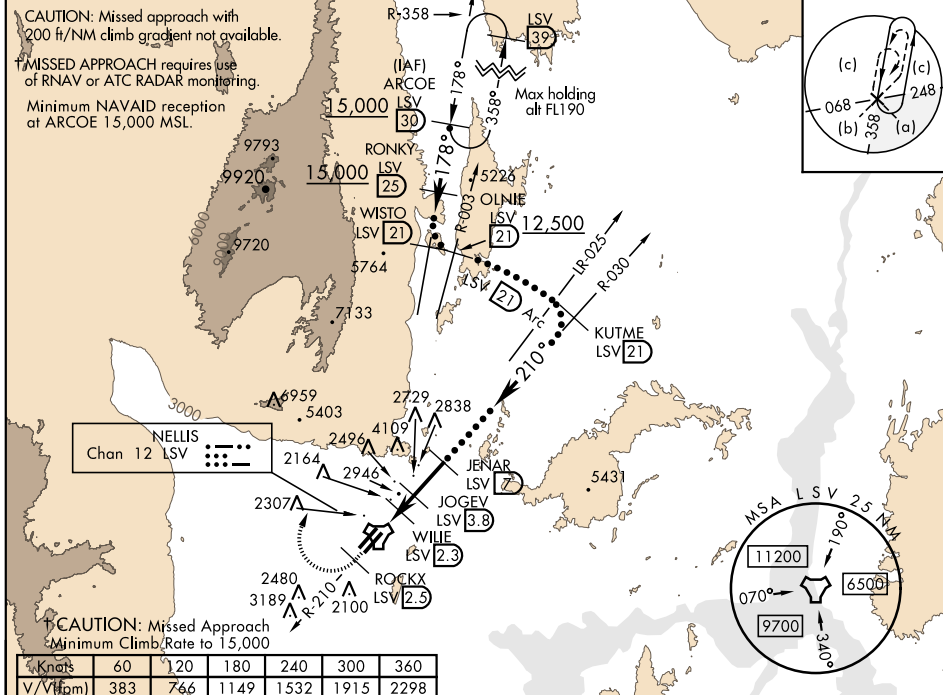
† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV R-358 to ARCOE and hold, continue climb in hold to 15,000. Missed approach not for civil use.

ATIS 270.1	NELLIS APP CON 124.95 273.55	NELLIS TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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CAUTION: Missed approach with 200 ft/NM climb gradient not available.

† MISSED APPROACH requires use of RNAV or ATC RADAR monitoring.

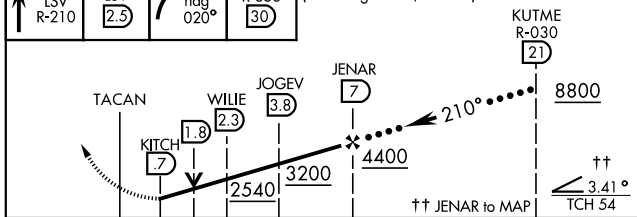
Minimum NAVAID reception at ARCOE 15,000 MSL.



Knots	60	120	180	240	300	360
V/V _{100m}	383	766	1149	1532	1915	2298

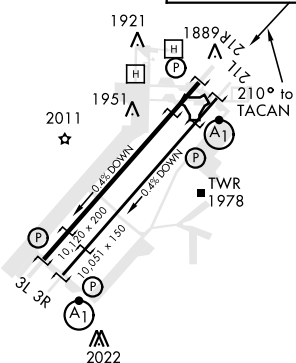
Controlling Obstacle 6959'
 EMERG SAFE ALT 100 NM 14,000

VGSI and descent angles not coincident (VGSI angle 3.00/TCH 54).



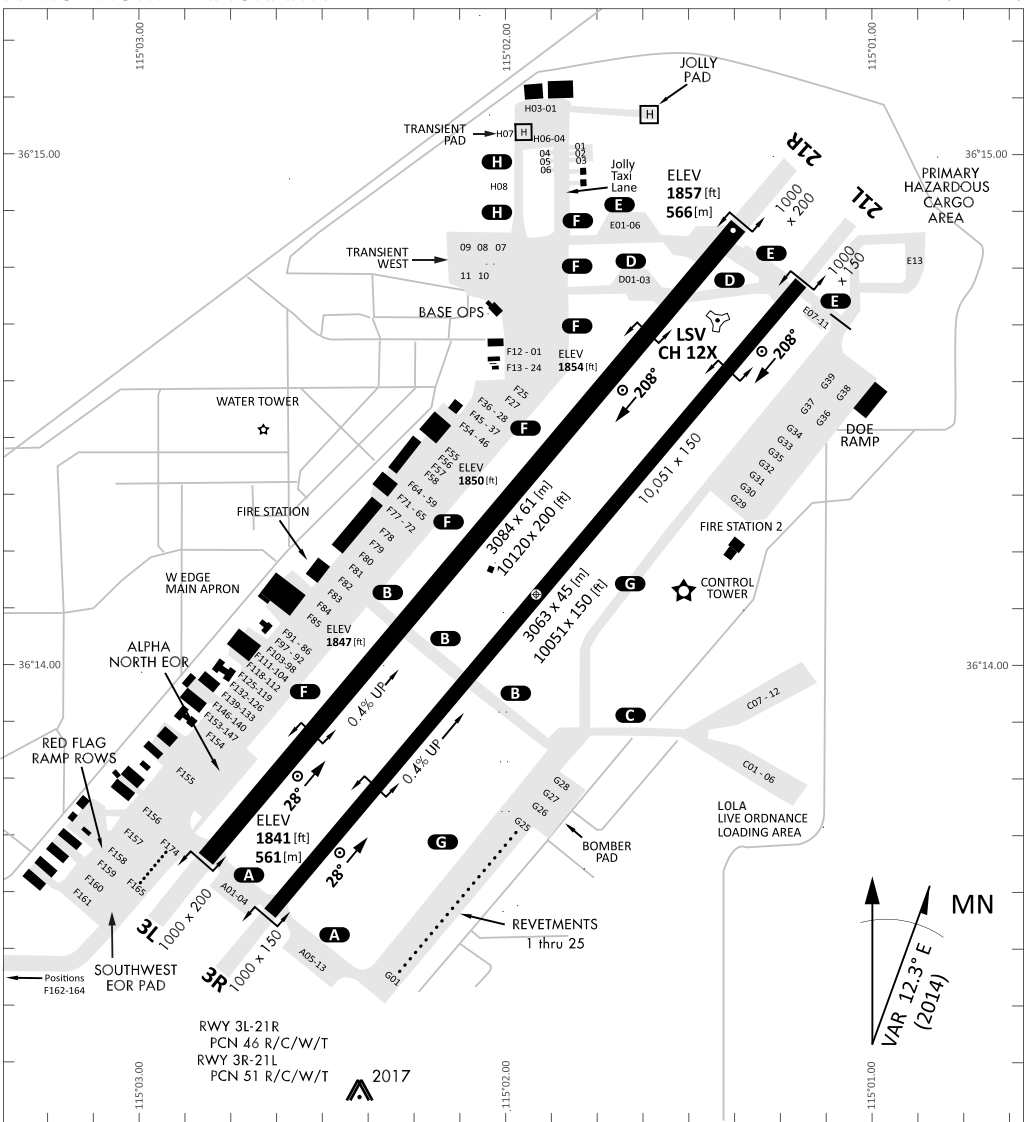
CATEGORY	C	D	E
S-21L *	2460-1 1/4	595 (600-1 1/4)	
SIDESTEP 21R	2460-1	591 (600-1)	
◻ CIRCLING **	2620-2 1/4 751 (800-2 1/4)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)

ELEV 1869	TDZE 21L 1865 TDZE 21R 1869
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HIRL all Rwy

HI-TACAN Z RWY 21L



PAR	RWY	CAT	MINIMA	ARP	ELEV	Scale 1:35'500	
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°	36° 14.060° N	1857 [ft]	0 300 600 900 1200 1500 [m]	
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°	115° 01.058° W	566 [m]	0 1000 2000 3000 4000 5000 [ft]	
SRA	21R	A C D E	2257 - 1.2 350 (350-1.2/1.6)				
	3L	A C D E	2257 - 1.2 350 (350-1.2/1.6)				

RWY	TORA	TODA	ASDA	LDA	PSN THR	ALS
21L	10051 [ft] 3063 [m]	11051 [ft] 3368 [m]	11051 [ft] 3368 [m]	10051 [ft] 3063 [m]	36°14.043°N 115°01.018°W	⊕
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ATIS	NELLIS GROUND	NELLIS TOWER	NELLIS CONTROL	TACAN	ILS RWY 21L	NELLIS EAST	NELLIS WEST
270.100 Mhz	275.800 121.800	327.000 132.55	317.525	LSV 12X	109.10 Mhz	384.400	385.000