

MISSION DATA CARD								
OPORD		Callsign		Mission		Date/Time		
663/2022		T-Rex 2		Training		282000FEB22		
Task	ILS Training						Freq	
AO							132.25	
Departure				Recovery				
MORMON MESA FOUR				HI-ILS or LOC/DME Z RWY 21L				
#	Callsign		Pilot		IFF	TCN	LSR	NET

LOADOUT			
A/A	A9M		GUN 100% CM
A/G	7M282L		CHF 180
POD	TGP, A184		FLR 300
TKS			FUEL 100%

TOLD					
	Takeoff	Target	Joker	Bingo	Land
FUEL	11087				

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	Nellis	N36 14.680 W115 01.500		
2	ARCOE	LSV 357/30 (N36 44.260 W114 55.020)		

COMMS	
Radio	Usage
1	132.25 - 123.45 (during APP)
2	11-3-4- 273.55 -11-4-3

OTHER FLIGHTS						
Callsign	Mission	Airframe	Freq	TCN	GrpId	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		
Tiger 2	Training	4x F/A-18C	261.25	12/75	1	156X
	AO	NTTR	Task	IFR & GPS Guided Training		
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		

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

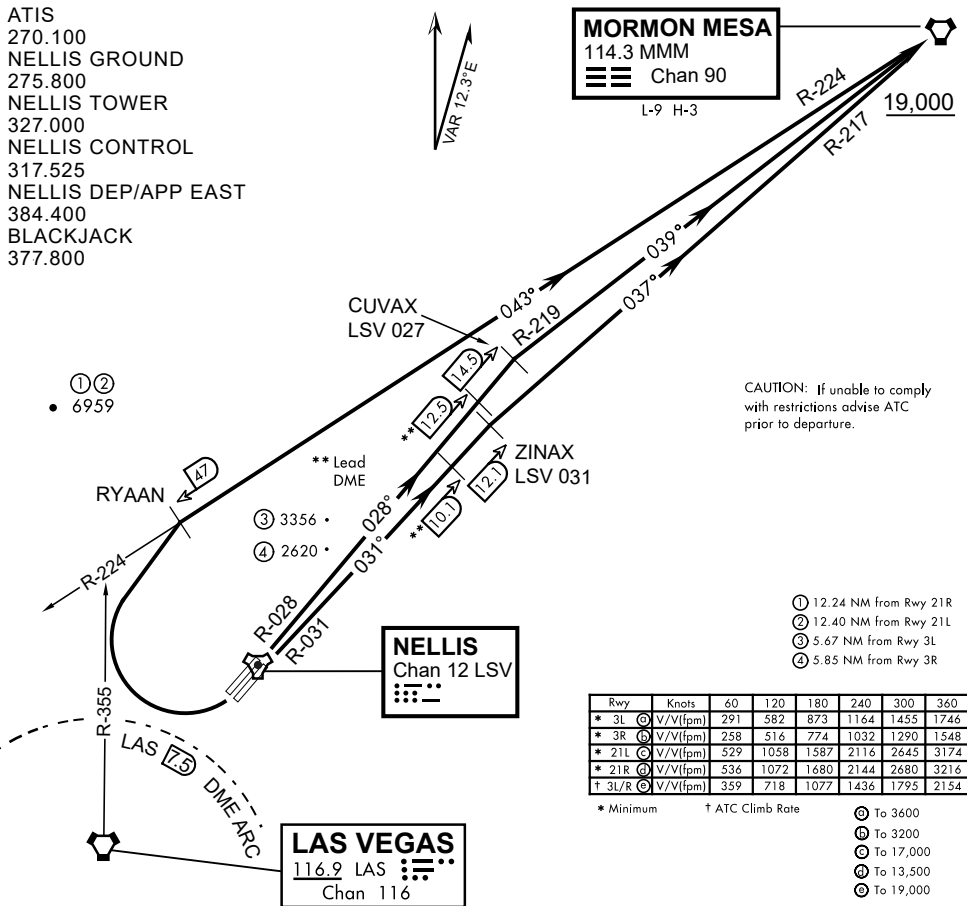
RAMROD										
0	1	2	3	4	5	6	7	8	9	
B	I	N	O	C	U	L	A	R	S	
KTC 1400 C										
	0	1	2	3	4	5	6	7	8	9
A	NQFD	LUP	BEO	VW	TC	AJK	RH	IY	XM	SG
B	KPQG	ESO	UFR	WL	NC	YJD	BT	HA	XM	VI
C	VKIS	QRO	FHC	XL	TN	MYP	DJ	EA	WB	UG
D	PRJH	GNU	KWC	XO	AF	VLD	BI	SQ	TE	MY
E	YVPJ	RTA	XIB	OM	FE	GKD	CW	LQ	NU	SH
F	ICSR	OEJ	YPW	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 36° 14.060' N 115° 01.058' W	ELEV 1857 [ft] 566 [m]	Scale 1:35'500						
	21L	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°				0	300	600	900	1200	1500 [m]	
	3R	A B D E	2057 - 0.8 200 (200-0.8/1.6) GS 3°				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



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3L

- Fly runway heading to intercept the LSV TACAN R-027 then direct CUVAX, intercept the MMM VORTAC R-219 then direct MMM climbing to FL190 or as assigned, then via assigned route.

TAKE-OFF RWY 3R

- Fly runway heading to intercept the LSV TACAN R-031 then direct ZINAX, intercept the MMM VORTAC R-217 then direct MMM, climbing to FL190 or as assigned, then via assigned route.

TAKE-OFF RWY 21L/R

- Turn right to intercept MMM VORTAC R-224 prior to MMM 47 DME, remain North of the LAS VORTAC 7.5 DME, remain East of LAS R-355, intercept MMM R-224 then direct MMM cross MMM at or above FL190, then via assigned route.

NOISE ABATMENT PROCEDURES: Fly acc. Nellis Noise Abatement instructions

LAS VEGAS, NEVADA

HI-ILS or LOC Z RWY 21L

LOC I-DIQ 109.1	APCH CRS 209°	Rwy Idg 10,051	21L 10,120	21R 10,120
		TDZE 1865	1865	1869
		Arpt Elev 1869		

JAL-227 (USAF)

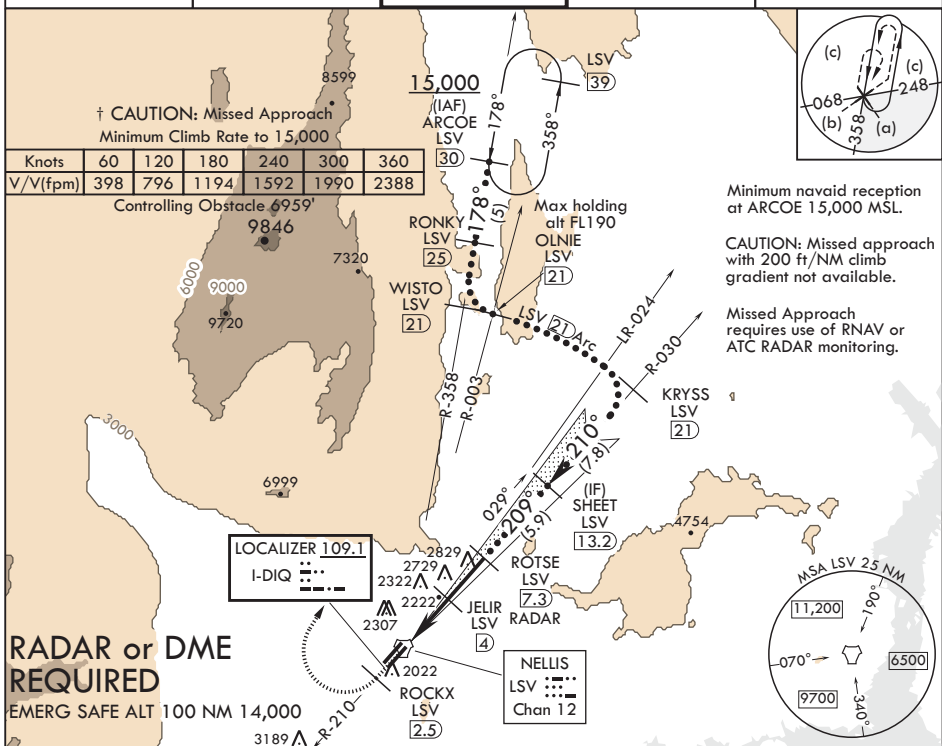
NELLIS AFB (KLSV)

T * When ALS inop, increase CAT CDE RVR to 40, vis to 3/4 mile.
 ** When ALS inop, increase CAT CDE vis to 1 3/4 miles.
 *** Circling not authorized E of Rwy 3R-21L.

Rwy 21
ALSF-1

† 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	APP CON 124.95 273.55	TOWER 132.55 327.0	GND CON 121.8 275.8	CLNC DEL 120.9 289.4
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CATEGORY	C	D	E
S-ILS 21L*	2065/24	200	(200-1/2)
S-LOC 21L**	2480-1 3/4	615	(700-1 3/4)
SIDESTEP 21R	2500-1 3/4	631	(700-1 3/4)

CIRCLING***

	2620-2 1/4 751 (800-2 1/4)	2840-3 971 (1000-3)	3040-3 1171 (1200-3)
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ELEV 1869

TDZE 21L 1865
TDZE 21R 1869

FAF to MAP 6.7 NM

Knots	120	140	160	180	200
Min:Sec	3:21	2:52	2:31	2:14	2:00

HIRL all Rwy's

LAS VEGAS, NEVADA

36°14'N - 115°02'W

NELLIS AFB (KLSV)

Amdt 8 03JAN19

HI-ILS or LOC Z RWY 21L

HI-TACAN Z RWY 21L

TACAN LSV Chan 12	APCH CRS 210°	Rwy Idg 21L 10,051 TDZE 1865 Arpt Elev 1869	Rwy Idg 21R 10,120 TDZE 1869
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NELLIS AFB (KLSV)

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



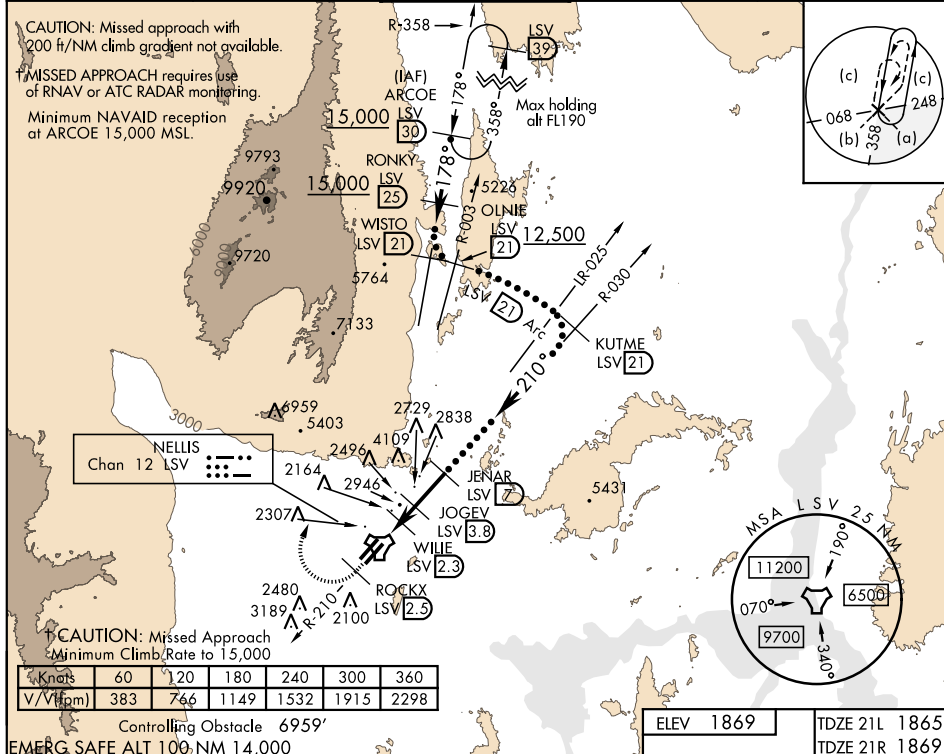
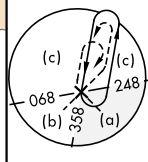
† MISSED APPROACH: Climb to 15,000, intercept LSV TACAN R-210 to 2.5 DME (ROCKX), then climbing right turn heading 020° to join LSV R-358 to ARCOE and hold, continue climb in hold to 15,000. Missed approach not for civil use.

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.

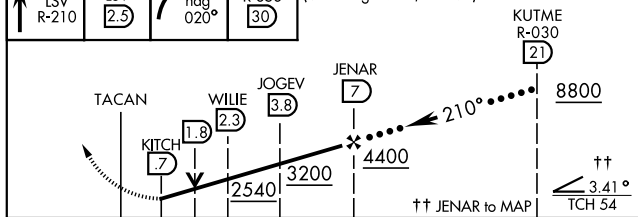
Minimum NAVAID reception
at ARCOE 15.000 MSL.



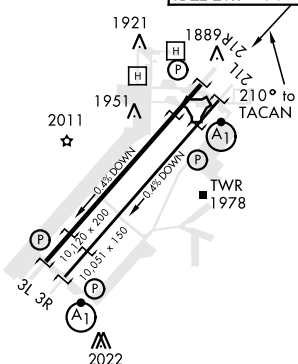
Knots	60	120	180	240	300	360
V/V _{fom}	383	766	1149	1532	1915	2298

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

15,000 LSV	ROCKX LSV		ARCOE R-358	VGSI and descent angles not coincident (VGSI angle 3.00/TCH 54).
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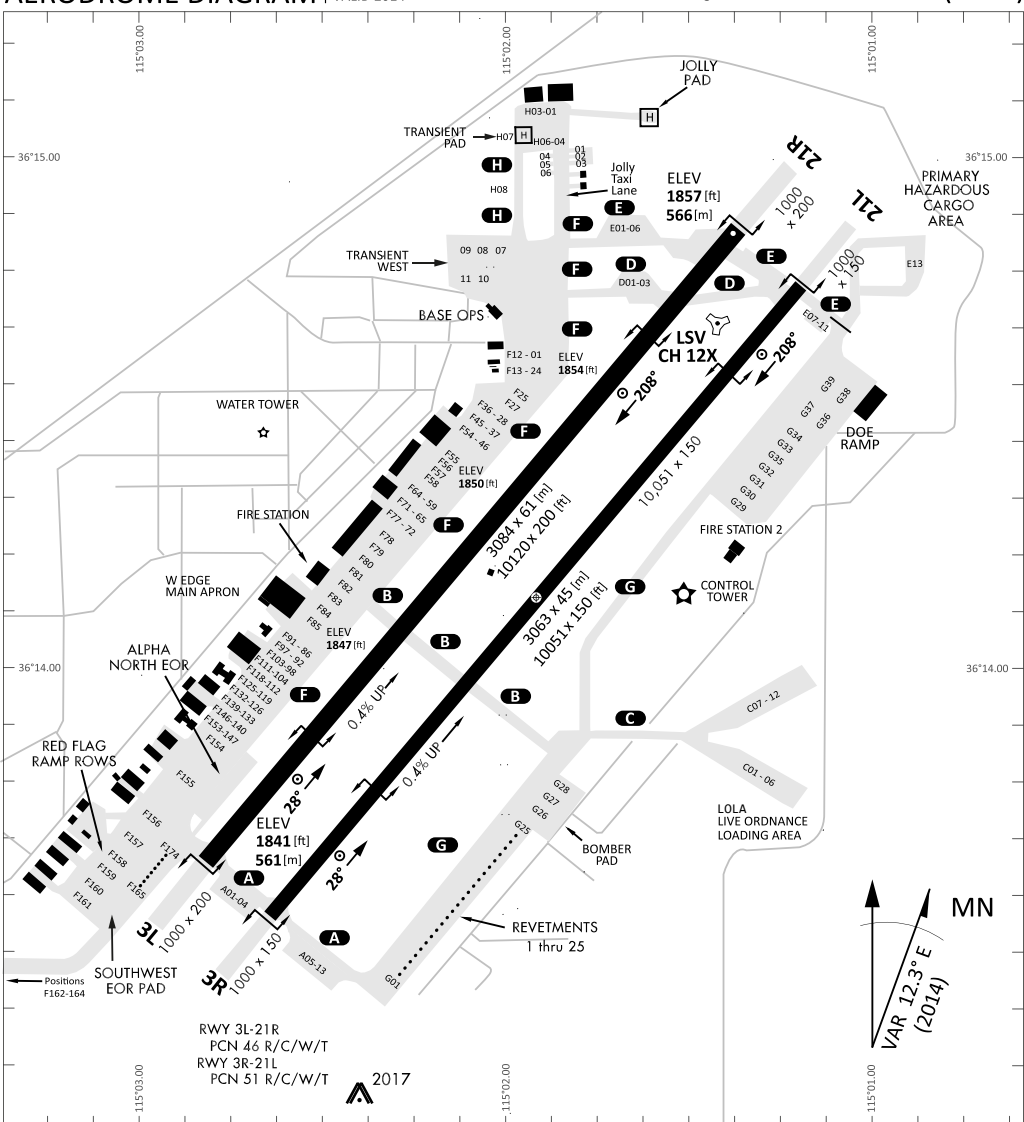


	5	1.6 NM	1.5 NM	3.2 NM	
CATEGORY	C			D	E
S-21L *	2460-1 1/4			595	(600-1 1/4)
SIDESTEP 21R	2460-1			591	(600-1)
 CIRCLING **	2620-2 1/4 751 (800-2 1/4)			2840-3 971 (1000-3)	3040-3 1171 (1200-3)



| HIRL all Rwy

HI-TACAN Z RWY 21L



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270.100 Mhz		275.800 121.800		327.000 132.55		317.525		LSV 12X		109.10 Mhz		384.400	385.000