

ARR (AMBIL AMBIL 6)

WINNIPEG MB WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

N49 32.68 W95 48.93

GOVIT

115.2 VBI

Ch 99

Chart not to scale

# STAR ANOLA ONE ARR (ANOLA. ANOLA 1)

then via Winnipeg R-105 to KEBAX then HDG 318° From Sioux Narrows VORTAC via R-270 to GOVIT

then via Winnipeg R-105 to NORAK then HDG 267° From Sioux Narrows VORTAC via R-270 to GOVIT, RWY 31

then via Winnipeg R-105 to NORAK then HDG 267°. From Sioux Narrows VORTAC via R-270 to GOVIT, RWY 36

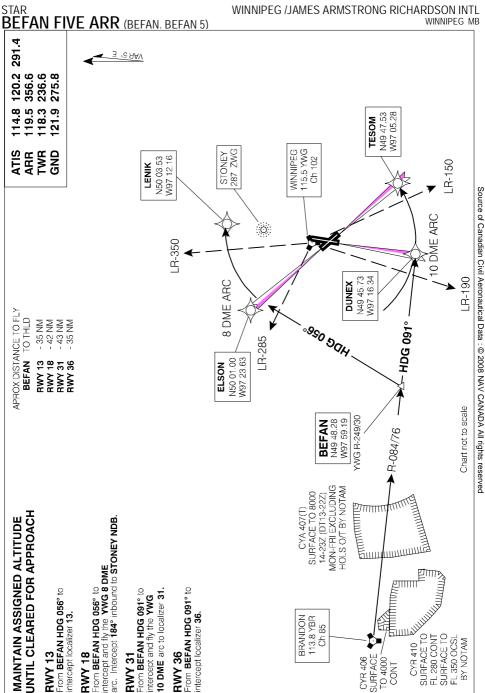
~WGR-105~~~R-270/69-4 hen via Winnipeg R-105 to KEBAX then HDG 306? From Sioux Narrows VORTAC via R-270 to GOVIT SIOUX NARROWS ALTITUDE UNTIL CLEARED FOR APPROACH FLIGHT PATH. MAINTAIN LAST ASSIGNED COMPLIANCE WITH PUBLISHED ARRIVAL AN ARRIVAL CLEARANCE REQUIRES hen vectors to final approach. hen vectors to final approach. hen vectors to final approach. then vectors to final approach rWG R-105/30 W96 31.47 N49 44.31 NORAK ALL RWYS 3WY 13 RWY 18 /WG R-105/20 ••• → EXPECT RADAR VECTORS W96 45.73 UNTIL CLEARED FOR APPROACH N49 48.12 KEBAX MAINTAIN ASSIGNED ALTITUDE **HDG 267°** TO FINAL APPROACH HDG 318° HIG 306 N49 47.53 N97 05.28 TESOM 6 15.5 YWG MINNIPEG N50 03.53 N97 12.16 Ch 102 STONEY 287 ZWG LENIK 149 45.73 V97 16.34 DUNEX 291.4 0: 356.6 236.6 275.8 120.2 t00 VORAK TO THLD APROX DISTANCE 19.5 18.3 21.9 RWY 13 - 50 NM RWY 18 - 43 NM 14.8 W97 23.63 N50 01.00 3 °E MAN ELSON ₹ GND ARR

(ANOLA. **ANOLA** 

WINNIPEG MB WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

RWY 31 - 32 NM **36** - 40 NM

WINNIPEG MB



**CANADA AIR PILOT** STAR (RNAV) **BRANDON** WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL THREE ARR (BEFAN. BRAND 3) WINNIPEG MB N97 10.52 N49 45.17 N49 47.53 W97 05.28 UBTUL 4500 3500 **FESOM** (FACF) 3000 N49 59.35 W97 13.18 N50 03.53 W97 12.16 287 ZWG (FACF) LENIK 3000 STONEY (3.8 NM) Source of Canadian Civil Aeronautical Data: © 2008 NAV CANADA All rights reserved DUNEX N49 45.73 W97 16.34 -063° (FACF) Rwy 36 (5.6 NM) 3000 Max 200 kt N50 04.26 W97 20.03 ŽČKU V (MLQ) 4500 3500 N50 01.00 W97 23.63 ELSON Rwy 13 (FACF) 3000 (MV 05) N49 46.55 N97 24.96 If RNAV STAR includes a DTW, the following procedures apply. WALKY **Rwy 36** 4500 3500 If approach clearance is NOT RECEIVED prior to DTW Chart not to scale ALL ALTITUDES WILL BE ISSUED BY ATC If approach clearance RECEIVED prior to DTW W97 30.45 N49 58.58 LIVBU Rwy 13 4500 3500 (22.2 NM) 055° (MN 6.12) - Fly RNAV STAR via DTW, then - Fly the STRAIGHT-IN approach Fly depicted heading ••• → Expect radar vectors to final - Via FACF, then N49 48.28 W97 59.19 BEFAN 291.4

ABB TWR GND THREE ARR (BEFAN. BRAND

3) VAR5°E (1999) WINNIPEG MB WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

13.8 YBR SRANDON

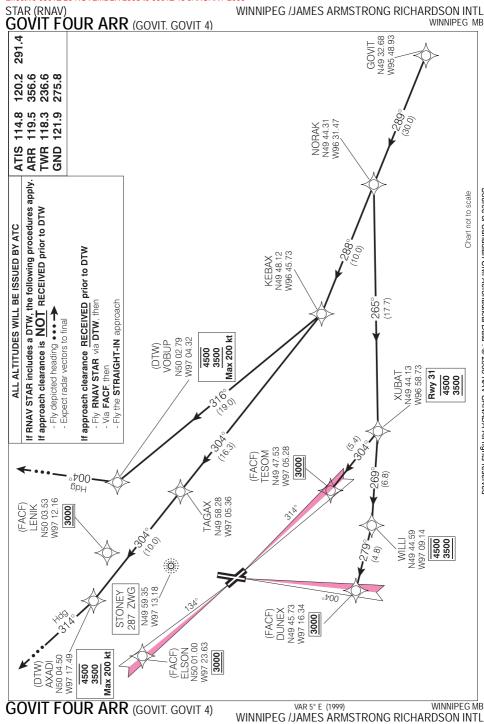
N49 54.60 W99 56.73 Ch 85

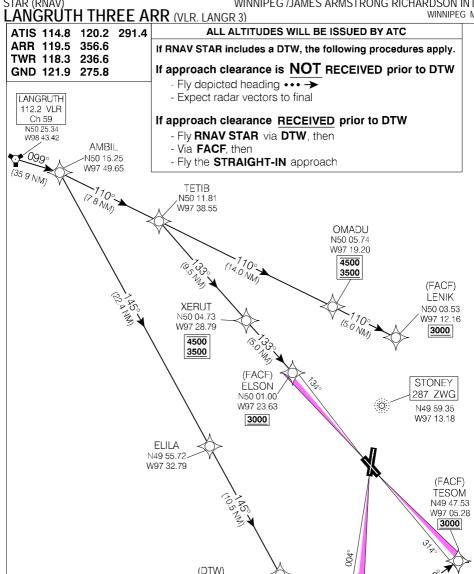
-R-084 -(76.3 NM)

356.6 236.6 275.8

119.5 118.3 114.8

121.9





WAI KY

N49 46.55

W97 24.96 **Rwy 36** 

4500

3500

Max 200 kt

Chart not to scale

LANGRUTH THREE ARR (VLR. LANGR 3) WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

.093°

(5.6 NM)

(FACF)

DUNEX

N49 45.73

W97 16.34

**Rwy 36** 

3000

(3.8 NM

UBTUL

N49 45.17

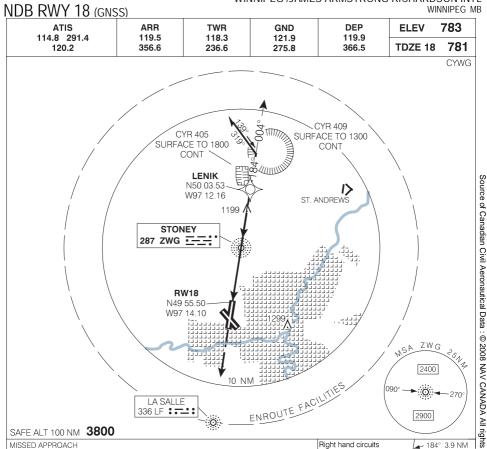
W97 10.52

4500

3500

FFF 15 MAR 07

CHANGE: Aerodrome name



ENROUTE FACIL

SAFE ALT 100 NM 3800 MISSED APPROACH

Climb to 3000 on "ZWG" NDB track of 184° to "LF" NDB 004° 2500 2000 Procedure turn LEFT within 10 NM of "ZWG" NDB В 1220 (439)1 1/4 NDB

LA SALLE 336 LF : ...:

1360 1400 1360 (577)1 3/4 CIRCLING

(577)(617)

> "ZWG" NDB to MAP 3.9 NM 90 130 Knots Min:Sec 3:20 2:36 2:08 1:48 1:34

11.000

VAR 5° E

WINNIPEG MB

150

2400

2900

→ 184° 3.9 NM

From "ZWG" NDB

reserved

EFF 25 SEP 08

NDB RWY 18 (GNSS)

CHANGE: Minima

WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL 495436N 971424W NAD83 ◆

Right hand circuits

rwys 13 & 18

TDZL Rwy 36

836

888

Min:Sec

WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

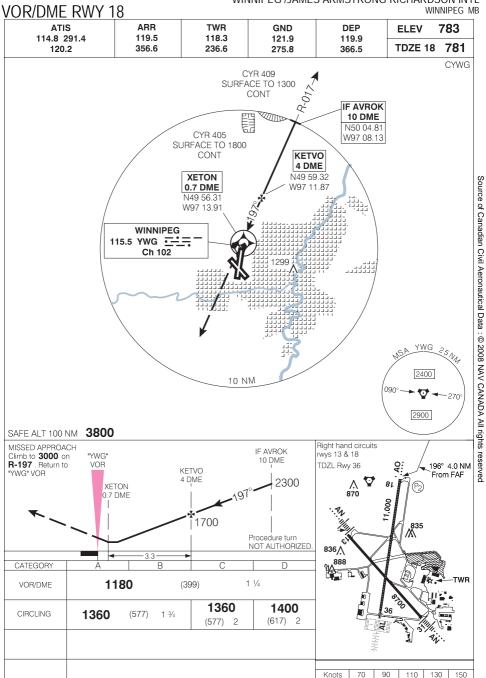
WINNIPEG MB

NAD83 ◆

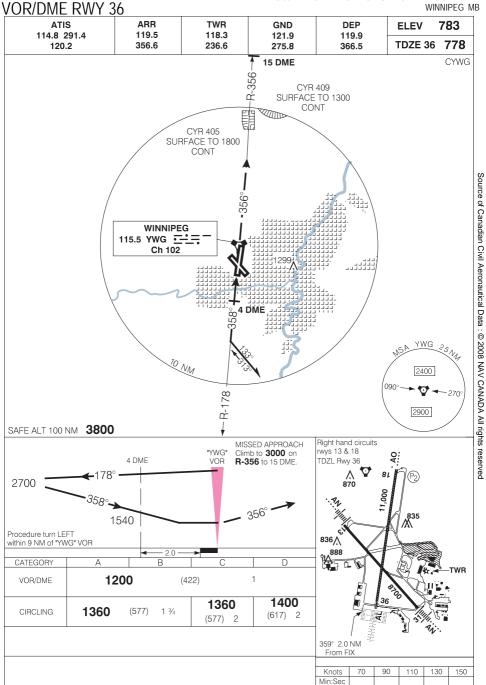
VAR 5°E

495436N 971424W

WINNIPEG MB

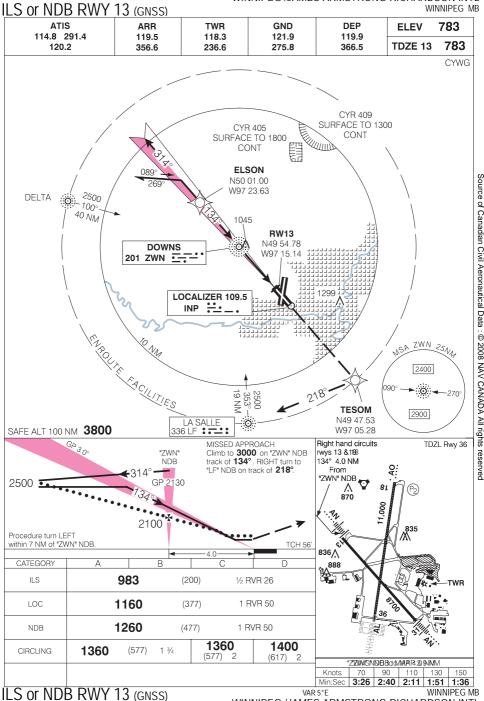


**VOR/DMF RWY 18** 



CHANGE: Minima

WINNIPEG MB



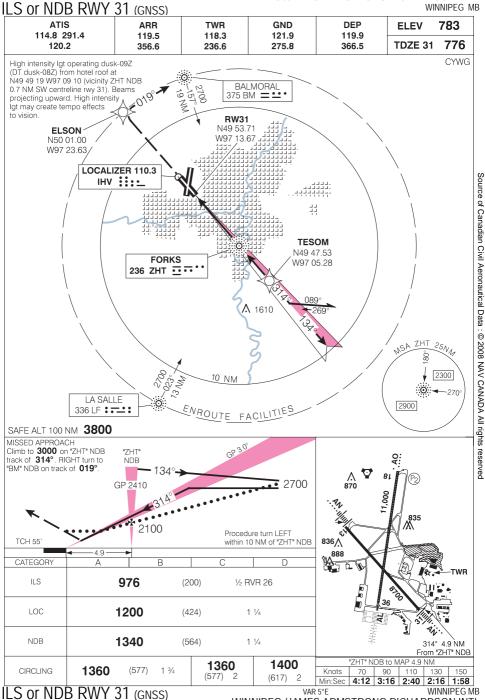
EFF 25 SEP 08

CHANGE: Minima

WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

495436N 971424W

NAD83 ◆

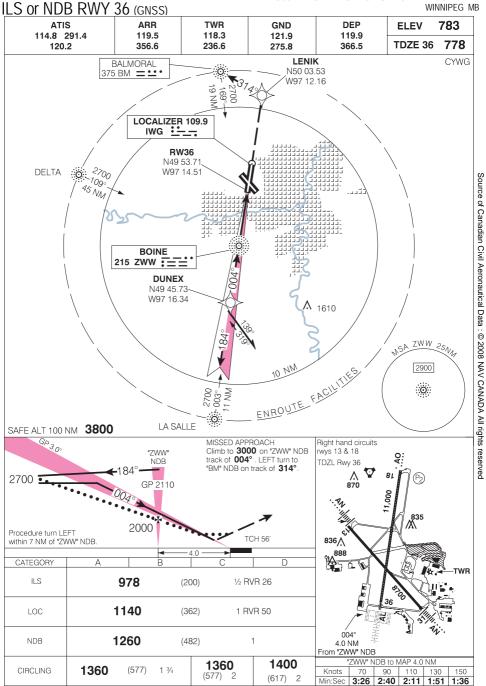


EFF 25 SEP 08

CHANGE: Minima

WINNIPEG MB WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL 495436N 971424W





ILS or NDB RWY 36 (GNSS)

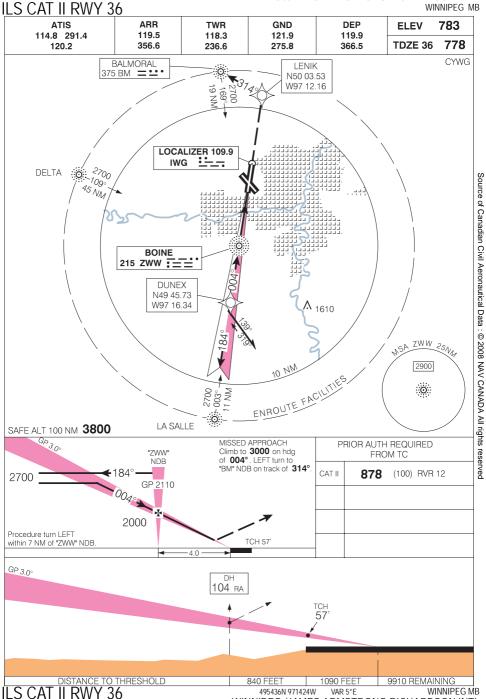
CHANGE: Minima

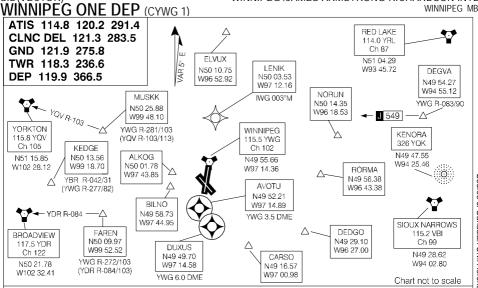
EFF 25 SEP 08

VAR 5°E WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL

495436N 971424W

WINNIPEG MB





#### DEPARTURE ROUTE DESCRIPTION

#### TURBO-JET/TURBO-FAN AIRCRAFT REFER TO NOISE ABATEMENT PROCEDURES FOR ADDITIONAL REQUIREMENTS.

**ALL RWYS:** Climb to and maintain 4000' ASL or flight planned altitude, whichever is lower. Contact Departure Control as soon as practical after take-off. Anticipate radar vectors to filed/assigned route. Expect clearance to flight planned altitude/flight level 10 minutes after departure.

Rwys 13, 31: Climb rwy hdg or as assigned for radar vectors.

Rwy 18, 36: NON TURBO-JET/TURBO-FAN aircraft. Climb rwy hdg or as assigned for radar vectors.

Rwy 18: TURBO-JET/TURBO-FAN aircraft. Climb and maintain extended runway centreline (184° M) by best available means to 3.5 DME

(N49 52.21 W97 14.89), (AVOTU) . At 3.5 DME (AVOTU), turn left, climb hdg 171° or if able, track direct to 6 DME (N49 49.70 W97 14.58),

(DUXUS) . At 6 DME (DUXUS) anticipate radar vectors.

Rwv 36: TURBO-JET/TURBO-FAN aircraft.

(a) Between 23:00 - 07:00 Local time [05-13Z, (04-12DT)] Clb, turn W 5° to 359° hdg as soon as safely able. Anticipate Radar vectors.

(b) Between 07:01 - 22:59 local time [ 1301-0459Z, (1201-0359DT)] Clb & maintain extended runway centreline (004° M) by best available means. Anticipate Radar vectors.

#### COMMUNICATION FAILURE

Transponder mode A/3 code 7600. On recognition of communications failure 10 minutes or less after take-off, and in IFR conditions:

- 1. Upon reaching last assigned altitude, proceed directly on course. (See note below)
- Maintain last assigned altitude until 10 minutes after take-off:
- 3. Climb to flight planned altitude

NOTE: If communications failure occurs immediately after take-off (before turning), maintain runway heading to 10 DME before proceeding on course. If communications failure occurs more than 10 minutes after take-off comply with appropriate procedures for communication failure enroute.

## **TURBO JET/TURBO-FAN**

#### **DEPARTURE PROCEDURES**

RWY	VNAP
13, 18, 36	A or B
ALL OTHERS	N/A

Rwy 13 - Climb runway heading to 4000' ASL before proceeding on course.

Rwy 18 - Climb and maintain 4000' ASL. Maintain extended runway centreline (184° M) by best available means to 3.5 DME (N49 52.21 W97 14.89), (AVOTU), At 3.5 DME (AVOTU), turn left, climb hdg 171° or if able, track direct to 6 DME (N49 49.70 W97 14.58), (DUXUS). At 6 DME (DUXUS) anticipate radar vectors.

Rwy 36 - (a) Between 23:00 - 07:00 Local time [05-13Z,(04-12ĎT)] Clb, turn W 5° to 359° as soon as safely able to 4000' ASL BPOC.

Rwy 36 - (b) Between 07:01 - 22:59 local time [1301-0459Z, (1201-0359DT)] For east bound turns to the on course, clb & maintain extended rwy centreline (004° M) by best avbl means to 4000' ASL BPOC.

#### **ARRIVAL PROCEDURES**

Intercept final approach, at or above 2000' ASL, and at or outside the NDB final approach fix for the runway in use. (Circuit training traffic may turn inside the final approach fix as required.)

## **ALL AIRCRAFT**

#### PREFERENTIAL RUNWAY DETERMINATION

Consistent with safe operating procedures, ATC will assign runways to divert as many departures and arrivals as possible from flight over noise-sensitive areas. Unless operational conditions do not permit, pilots shall accept runways as assigned by ATC.

The preferred order for runway usage is as follows:

Arrivals: 13, 18, 36, 31 Departures: 36, 31, 18, 13

Runway 36 is the preferred calm wind runway for departure except

- for propeller driven aircraft, and;
- after 0700 local time, westbound acft may be auth rwy 31 dep.

#### **ARRIVAL PROCEDURES**

- 1. Circuit height is 2000' ASL (weather permitting).
- Maintain 2000' ASL or above as long as practicable before commencing final descent.
- 3. Remain on or above the ILS or VASIS glide slope.
- Consistent with safety of operations, aircraft should be flown on the approach so as to give the best possible performance with respect to noise abatement (flap and gear selection, power settings).

NOTE: For night operations - See NIGHT RESTRICTIONS (Page 2)

#### NIGHT RESTRICTIONS 23:00 - 07:00 LOCAL TIME

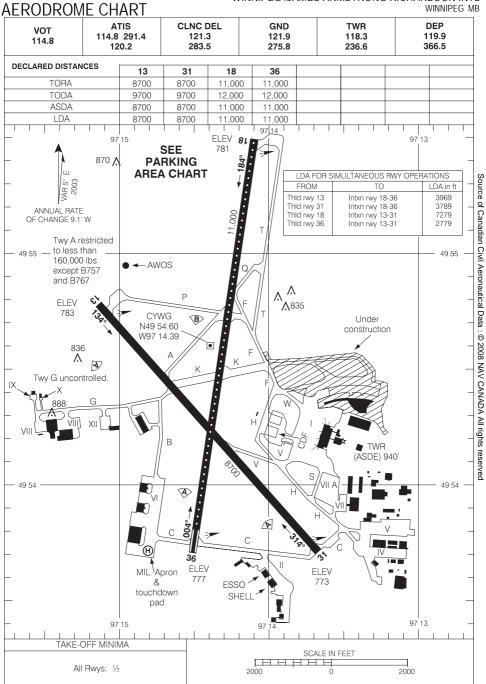
- 1. Turbo Jet/Turbo-Fan acft departing rwy 36 are to clb & turn W 5° to 359° hdg as soon as safely able.
- 2. Reverse thrust above idle not permitted unless required for the safety of the acft.
- 3. Powerback ops not permitted.
- 4. PPR for flight training & maintenance engine runups. Ctc Ops 204-987-7834
- 5. Intxn dep rwy 13 or 18 not auth.

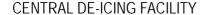
#### GENERAL NOISE ABATEMENT CONSIDERATIONS

- 1. Circling procedures to runways 31 and 36 are not permitted.
- 2. When simulating power loss after take-off or overshoot on runways 13 or 18, power may be reduced on one engine to simulate emergencies provided either,
  - All engines are returned to take-off or overshoot power before the aircraft crosses the departure end of the runway, or
  - The departure end of the runway is crossed at 300' or more above the ground and "one engine out" rate of climb is 500" per minute or greater and is maintained to 2000 ASL.

#### ATC REQUIREMENTS (WINNIPEG CLASS D AIRSPACE)

- 1. VFR & IFR Flight plans, file at least 30 minutes prior to proposed dep time. All non-flight planned aircraft intending flight within Winnipeg Class D airspace, contact ATC at least 30 minutes prior to flight for transponder code. 866-WXBRIEF (866-992-7433).
- 2. Unless otherwise instructed by ATC, the following procedures will apply to practice approaches.
  - a. The facility will be crossed outbound at 3000' ASL.
  - b. Descent from 3000' ASL is to be initiated on the procedure turn side when clear of the outbound track
  - c. Missed approaches are to be flown as published. Request for circling approach procedures must be made with the initial request for the associated instrument approach.





PAD CONTROL / **ICEMAN** 122,925 **GND** 

121.9



#### **DURING DF-ICING OPERATIONS**

- 1. Notify Winnipeg gnd prior pushback when de-icing is required.
- 2. On Apron I hold short of CDF and ctc iceman on 122.925 for instructions to the de-icing pad.
- 3. Follow instructions and guidance lights to staging and de-icing bays.
- 4. After receiving final instructions from iceman with brakes set, acft configured and engines at idle, ctc company de-icing opr on assigned freg or via intercom.
- 5. After de-icina do not move acft, ctc iceman to advise that all egpt and staff are away from the acft in the safe zone.
- 6. Follow iceman instructions to designated exit point, holding short of taxiway "H", ctc and 121.9.

exit to taxi hotel **DE-ICING BAYS DESCRIPTION** 

> Each bay accommodates up to 1.3.4.6 one aircraft with a wingspan not exceeding 38m (124 ft) 2.5 Each bay accommodates up to

> one aircraft with a wingspan not exceeding 65m (213 ft).

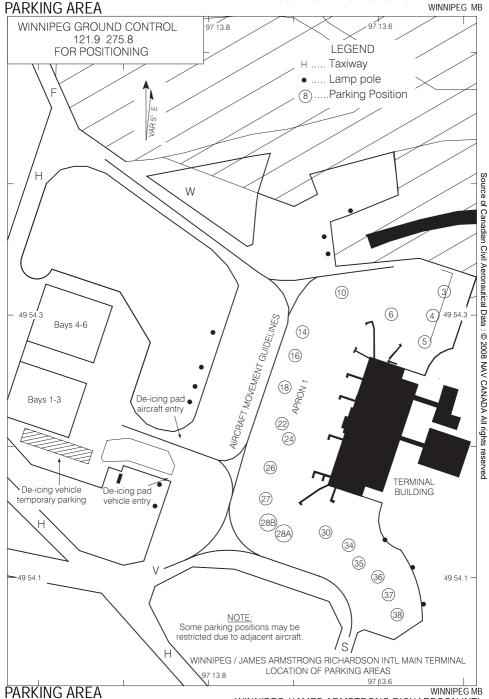
W LEGEND • • • INSET GUIDANCE LIGHTS ICEMAN 122.925 GUIDANCE SIGN AIRCRAFT HOLD LINE Н 8 AIRCRAFT NOSE STOP LINE (YELLOW LIGHTS) Source of Canadian Civil Aeronautical Data: © 2008 NAV CANADA All rights reserved BAY 4 GROUND 121.9 De-icing pad aircraft entry BAY 2 I X ICEMAN 122.925 BAY 1 **BROUND** 0 121 De-icing pad vehicle entry De-icing vehicle ICE HOUSE temporary parking De-icing pad aircraft

CENTRAL DE-ICING FACILITY

## **CANADA AIR PILOT**

Effective 0901Z 20 NOVEMBER 2008 to 0901Z 15 JANUARY 2009

# WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL



EFF 10 APR 08

CHANGE: Revised

WINNIPEG /JAMES ARMSTRONG RICHARDSON INTL