## AIRPORT DATA

| ITEM | ULTIMATE |
|---|---|
| Airport Reference Code | D-VI |
| Airport Elevation | 779.5' MSL |
| Magnetic Declination/ Rate of Change | 3° 2' W / 0° 5' W per year |
| ARP-Latitude (NAD '83) | N 41° 22' 29.40" |
| ARP-Longitude (NAD '83) | W 87° 41' 58.11" |
| Mean Max. Temp. - Hottest Month | 83.7°F |
| On-site Weather Indication | AWOS |
| Navigational-Aids | ATCT, Rotating Beacon, LLWAS, ILS, ASR, AWOS, Wind Cone, SSR, ASDE |
| County | Will |
| Township | Will, Monee, Washington |

| Critical Aircraft Characteristics | ULTIMATE AIRPORT | | | | | |
|---|---|---|---|---|---|---|
| | 9L-27R (D-VI) | 9C-27C (C-IV) | 9R-27L (C-IV) | 8R-26L (D-VI) | 8C-26C (C-IV) | 8L-26R (C-III) |
| Critical Aircraft | A-380 | B-767 300ER | B-767 300ER | A-380 | B-767 300ER | B-737-800 |
| Max. Aircraft Takeoff Weight | 1,235,000 Lbs | 413,000 Lbs | 413,000 Lbs | 1,235,000 Lbs | 413,000 Lbs | 174,000 Lbs |
| Max. Aircraft Landing Weight | 851,000 Lbs. | 320,000 Lbs. | 320,000 Lbs. | 851,000 Lbs. | 320,000 Lbs. | 144,000 Lbs. |
| Approach Speed | 150 Knots | 130 Knots | 130 Knots | 150 Knots | 130 Knots | 140 Knots |
| Length (overall) | 239'-3" | 180'-3" | 180'-3" | 239'-3" | 180'-3" | 129'-6" |
| Wing Span | 261'- 8" | 156'-1" | 156'-1" | 261'- 8" | 156'-1" | 112'- 7" |
| Tail Height | 79'-7" | 52'-11" | 52'-11" | 79'-7" | 52'-11" | 41'-7" |

## ULTIMATE RUNWAY 8R-26L

| ITEM | | 8R | 26L |
|---|---|---|---|
| Approach Visibility Minimums (RVR) | | 700' | 700' |
| Approach Category and Design Group | | D-VI | |
| Runway Dimensions (Length x Width in feet) | | 12,000'x 200' | |
| Surface | | Paved | |
| Effective Gradient | | 0.22% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 1,250,000 | |
| Runway End Coordinates | Latitude | 41° 23' 09.88" | 41° 23' 09.02" |
| | Longitude | 87° 43' 18.43" | 87° 40' 41.01" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 753.1' | 779.5' |
| Runway High/Low Elevations | | High 779.5'/Low 753.1' | |
| Runway Approach Type | | PRECISION CAT III | PRECISION CAT III |
| Runway TDZE Elevation | | 753.1' | 779.5' |
| NAVAIDS and Visual Aids | | IM,OM,GS,LOC,PAPI,RVR | |
| Runway Lighting | | TDZL, ALSF-II, HIRL, CL, TH | |
| Runway Markings | | PRECISION | |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Obstacle Free Zone (OFZ) (Width x Length beyond end of runway) | | 500' x 200' | 400' x 200' |
| Runway Inner Transitional OFZ (Height/ Slope) | | 772.9/ 5:1/ 6:1 | 798.5/ 5:1/ 6:1 |
| Inner Approach OFZ (Width x Length)/Slope | | 400' x 2,400'/1:50 | 400' x 2,400'/1:50 |
| Runway Object Free Area (Length x Width) | | 800' x 1,000' | 800' x 1,000' |
| Runway Precision Object Free Zone (Width x Length) | | 800' x 200' | 800' x 200' |
| Runway Protection Zone (RPZ) | | 1,000' x 1750' x 2500' | 1,000' x 1,750' x 2,500' |
| Approach Surfaces (slope Inner/Outer) | | 50:1/40:1 | 50:1/40:1 |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | 4,000' x 16,000' x 40,000' | 4,000' x 16,000' x 40,000' |
| Siting Threshold Criteria (Inner/Outer Width x Length) | | Criteria Set Forth in TERPS, Order 8260.3 (See Note 5) | |

## ULTIMATE RUNWAY 8C-26C

| ITEM | | 8C | 26C |
|---|---|---|---|
| Approach Visibility Minimums (RVR) | | 4000' | 4000' |
| Approach Category and Design Group | | C-IV | |
| Runway Dimensions (Length x Width in feet) | | 10,000'x 200' | |
| Surface | | Paved | |
| Effective Gradient | | 0.15% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 500,000 | |
| Runway End Coordinates | Latitude | 41° 23' 34.51" | 41° 23' 33.79" |
| | Longitude | 87° 43' 05.08" | 87° 40' 53.88" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 768.5' | 753.5' |
| Runway High/Low Elevations | | High 768.5'/ Low 753.5' | |
| Runway Approach Type | | NON-PRECISION | |
| Runway TDZE Elevation | | 768.5' | 753.5' |
| NAVAIDS and Visual Aids | | PAPI (4), LPV | PAPI (4), LPV |
| Runway Lighting | | REIL, HIRL | REIL, HIRL |
| Runway Markings | | NON-PRECISION | NON-PRECISION |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Object Free Area (Length x Width) | | 800' x 1,000' | 800' x 1,000' |
| Runway Obstacle Free Zone (Width x Length beyond the end of Runway) | | 400' x 200' | 400' x 200' |
| Runway Protection Zone (RPZ) | | 1,000' x 1,510' x 1750' | 1,000' x 1,510' x 1750' |
| Approach Surfaces (slope Inner/Outer) | | 34:1/NONE | 34:1/NONE |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | N.A. | N.A. |
| Siting Threshold Criteria Dimensions (Inner/Outer Width x Length) (See Note 7) | | 800' x 3,800' x 10,000', Slope 20:1 | 800' x 3,800' x 10,000', Slope 20:1 |

## ULTIMATE RUNWAY 8L-26R

| ITEM | | 8L | 26R |
|---|---|---|---|
| Approach Visibility Minimums (RVR) | | 2400' | 2400' |
| Approach Category and Design Group | | C-III | |
| Runway Dimensions (Length x Width in feet) | | 7,500'x 150' | |
| Surface | | Paved | |
| Effective Gradient | | 0.54% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 175,000 | |
| Runway End Coordinates | Latitude | 41° 23' 59.04" | 41° 23' 58.49" |
| | Longitude | 87° 42' 32.04" | 87° 40' 53.63" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 775' | 734.4' |
| Runway High/Low Elevations | | High 775'/ Low 734.4' | |
| Runway Approach Type | | PRECISION CAT I | PRECISION CAT I |
| Runway TDZE Elevation | | 775' | 734.4' |
| NAVAIDS and Visual Aids | | OM,GS,LOC,PAPI (4) ,RVR | OM,GS,LOC,PAPI (4) ,RVR |
| Runway Lighting | | MALSR, CL, TH | MALSR, CL, TH |
| Runway Markings | | PRECISION | |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Obstacle Free Zone (OFZ) (Width x Length beyond end of runway) | | 400' x 200' | 400' x 200' |
| Runway Inner Transitional OFZ (Height/ Slope) | | 813.4/ 6:1 | 772.8/ 6:1 |
| Inner Approach OFZ (Width x Length)/Slope | | 400' x 2,400'/1:50 | 400' x 2,400'/1:50 |
| Runway Precision Obstacle Free Zone POFZ (Width x Length) | | 800' x 200' | 800' x 200' |
| Runway Object Free Area (LengthxWidth) | | 800' x 1,000' | 800' x 1,000' |
| Runway Protection Zone (RPZ) | | 1,000' x 1,750' x 2,500' | 1,000' x 1,750' x 2,500' |
| Approach Surfaces (slope Inner/Outer) | | 50:1/40:1 | 50:1/40:1 |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | 4,000'x 16,000'x 40,000' | 4,000'x 16,000'x 40,000' |
| Siting Threshold Criteria Dimensions (Inner/Outer Width x Length)/Slope (See Note 6) | | 800' x 3,800' x 10,000', Slope 34:1 | 800' x 3,800' x 10,000', Slope 34:1 |

## ULTIMATE RUNWAY 9L-27R

| ITEM | | 9L | 27R |
|---|---|---|---|
| Approach Visibility Mimimums (RVR) | | 700' | 700' |
| Approach Category and Design Group | | D-VI | |
| Runway Dimensions (Length x Width in feet) | | 12,000'x 200' | |
| Surface | | Paved | |
| Effective Gradient | | 0.2% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 1,250,000 | |
| Runway End Coordinates | Latitude | 41° 21' 56.77" | 41° 21' 55.91" |
| | Longitude | 87° 43' 19.11" | 87° 40' 41.74" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 740.0' | 764.2' |
| Runway High/Low Elevations | | High 764.2'/Low 740.0' | |
| Runway Approach Type | | PRECISION CAT III | PRECISION CAT III |
| Runway TDZE Elevation | | 740.0' | 764.2' |
| NAVAIDS and Visual Aids | | IM,OM,GS,LOC,PAPI,RVR | |
| Runway Lighting | | TDZL, ALSF-II, HIRL, CL, TH | |
| Runway Markings | | PRECISION | |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Obstacle Free Zone (OFZ) (Width x Length beyond end of runway) | | 400' x 200' | 400' x 200' |
| Inner Transitional Runway OFZ (Height/ Slope). | | 759/ 5:1/ 6:1 | 783/ 5:1/ 6:1 |
| Inner Approach OFZ (Width x Length)/Slope | | 400' x 2,400'/1:50 | 400' x 2,400'/1:50 |
| Runway Precision Obstacle Free Zone (Width x Length beyond end of runway) | | 800' x 200' | 800' x 200' |
| Runway Object Free Area (Length x Width) | | 800' x 1000' | 800' x 1000' |
| Runway Protection Zone (RPZ) | | 1,000' x 1750' x 2500' | 1,000' x 1,750' x 2,500' |
| Approach Surfaces (slope Inner/Outer) | | 50:1/40:1 | 50:1/40:1 |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | 4,000' x 16,000' x 40,000' | 4,000' x 16,000' x 40,000' |
| Siting Threshold Criteria Dimensions (Inner/Outer Width x Length) | | Criteria Set Forth in TERPS, Order 8260.3 (See Note 5) | |

## ULTIMATE RUNWAY 9C-27C

| ITEM | | 9C | 27C |
|---|---|---|---|
| Approach Visibility Minimums (RVR) | | 4000' | 4000' |
| Approach Category and Design Group | | C-IV | |
| Runway Dimensions (Length x Width in feet) | | 10,000'x 200' | |
| Surface | | Paved | |
| Effective Gradient | | 0.18% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 500,000 | |
| Runway End Coordinates | Latitude | 41° 21' 32.01" | 41° 21' 31.29" |
| | Longitude | 87° 43' 6.23" | 87° 40' 55.10" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 761.1' | 742.8' |
| Runway High/Low Elevations | | High 761.1'/ Low 742.8' | |
| Runway Approach Type | | NON-PRECISION | |
| Runway TDZE Elevation | | 761.1' | 742.8' |
| NAVAIDS and Visual Aids | | PAPI (4), LPV | PAPI (4), LPV |
| Runway Lighting | | HIRL,REIL | HIRL,REIL |
| Runway Markings | | NON-PRECISION | |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Object Free Area (Length x Width) | | 800' x 1,000' | 800' x 1,000' |
| Runway Obstacle Free Zone (Width x Length Beyond the end of Runway) | | 400' x 200' | 400' x 200' |
| Runway Protection Zone (RPZ) | | 1,000' x 1,510' x 1750' | 1,000' x 1,510' x 1750' |
| Approach Surfaces (slope Inner/Outer) | | 34:1/NONE | 34:1/NONE |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | N.A. | N.A. |
| Siting Threshold Criteria Dimensions (Inner/Outer Width x Length) (See Note 7) | | 800' x 3,800' x 10,000', Slope 20:1 | 800' x 3,800' x 10,000', Slope 20:1 |

## ULTIMATE RUNWAY 9R-27L

| ITEM | | 9R | 27L |
|---|---|---|---|
| Approach Visibility Minimums (RVR) | | 700' | 700' |
| Approach Category and Design Group | | C-IV | |
| Runway Dimensions (Length x Width in feet) | | 10,000'x 200' | |
| Surface | | Paved | |
| Effective Gradient | | 0.3% | |
| Runway Stopway/Clearway | | None | None |
| Runway Threshold Displacement | | None | None |
| Max. Pavement Strength (lbs) | | 500,000 | |
| Runway End Coordinates | Latitude | 41° 21' 07.31" | 41° 21' 06.59" |
| | Longitude | 87° 43' 06.46" | 87° 40' 55.35" |
| Runway Bearing (True) | | 90° 24' W | |
| Runway End Elevation | | 764.0' | 734.0' |
| Runway High/Low Elevations | | High 764.0'/ Low 734.0' | |
| Runway Approach Type | | PRECISION CAT III | PRECISION CAT III |
| Runway TDZE Elevation | | 764.0' | 734.0' |
| NAVAIDS and Visual Aids | | IM,OM,GS,LOC,PAPI (IV) ,RVR | IM,OM,GS,LOC,PAPI (IV) ,RVR |
| Runway Lighting | | TDZL, ALSF-II, HIRL, CL, TH | TDZL, ALSF-II, HIRL, CL, TH |
| Runway Markings | | PRECISION | |
| Runway Safety Area (Length x Width) | | 1,000' x 500' | 1,000' x 500' |
| Runway Obstacle Free Zone (OFZ) (Width x Length beyond end of runway) | | 400' x 200' | 400' x 200' |
| Runway Inner Transitional OFZ (Height/ Slope) | | 796.7/ 5:1/ 6:1 | 766.7/ 5:1/ 6:1 |
| Inner Approach OFZ (Width x Length)/ Slope | | 400' x 2,400'/1:50 | 400' x 2,400'/1:50 |
| Runway Precision Obstacle Free Zone (POFZ) (Width x Length) | | 800' x 200' | 800' x 200' |
| Runway Object Free Area (Length x Width) | | 800' x 1000' | 800' x 1000' |
| Runway Protection Zone (RPZ) | | 1,000' x 1,750' x 2,500' | 1,000' x 1,750' x 2,500' |
| Approach Surfaces (slope Inner/Outer) | | 50:1/40:1 | 50:1/40:1 |
| Approach Surfaces (Inner, W1xW2xL) | | 1,000' x 4,000' x 10,000' | 1,000' x 4,000' x 10,000' |
| Approach Surfaces (Outer, W1xW2xL) | | 4,000' x 16,000' x 40,000' | 4,000' x 16,000' x 40,000' |
| Siting Threshold Criteria Dimensions (Inner/Outer Width x Length) | | Criteria Set Forth in TERPS, Order 8260.3 (See Note 5) | |

**SOURCES:**

1. FAA AC150-5300-13, CHANGE 8 "AIRPORT DESIGN"
2. FAA FAR PART 77, OBJECTS AFFECTING NAVIGABLE AIRSPACE
3. FAA ORDER 8260.3B, TERPS
4. FAA ALP CHECKLIST, GREAT LAKES REGION, POLICY AND PROCEDURE MEMORANDUM 5310.1, OCT. 2006
5. MAGNETIC DECLINATION IS BASED ON NATIONAL GEOPHYSICS DATA CENTER COMPUTATION
6. MEAN MAXIMUM TEMPERATURE OF THE HOTTEST MONTH IS OBTAINED FROM NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
7. 767-300/300ER/FREIGHTER AIRPORT PLANNING MANUAL, THE BOEING COMPANY.
8. 737-800 AIRPORT PLANNING MANUAL, THE BOEING COMPANY.
9. A-380 AIRPORT PLANNING MANUAL, AIRBUS COMPANY.

**NOTES:**

1. NO THRESHOLD SITING SURFACE OBJECT PENETRATIONS.
2. NO OBSTACLE FREE ZONE (OFZ) OBJECT PENETRATIONS.
3. RUNWAY ELEVATIONS SHOWN ARE IN MEAN SEA LEVEL (MSL), UNLESS OTHERWISE NOTED.
4. LATITUDE AND LONGITUDE ARE BASED ON NAD 83 DATUM.
5. FAA AC 150/5300-13, CHANGE 12, APPENDIX 2, TABLE A2-1, ITEM (10)
6. FAA AC 150/5300-13, CHANGE 12 APPENDIX 2, TABLE A2-1, ITEM (9)
7. FAA AC 150/5300-13, CHANGE 12, APPENDIX 2, TABLE A2-1, ITEM (8)

**LEGEND**

| | | | |
|---|---|---|---|
| ARB | Airport Rotating Beacon | ATCT | Airport Traffic Control Tower |
| ARP | Airport Reference Point | LLWAS | Low Level Wind Shear Alert System |
| ASR | Airport Survalliance Radar | ILS | Instrument Landing System |
| MTOW | Maximum Take-off Weight | AWOS | Automatc Weather Observation Station |
| TCH | Threshold Crossing Height | SSR | Secondary Surveillance Radar |
| TDZE | Touch Down Zone Elevation | | |

PRELIMINARY DRAFT

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Fax (312) 902-7044

Illinois Department of Transportation

| NO. | BY | DATE | DESCRIPTION | NO. | BY | DATE | DESCRIPTION |
|---|---|---|---|---|---|---|---|

R E V I S I O N S

DESIGN BY:
DRAWN BY: CH, DK
CHECKED BY: JF,AY,GC
APPROVED BY:

*South Suburban Airport*
*FUTURE AIRPORT LAYOUT PLAN*
*DATA SHEET*

SCALE: NOT TO SCALE
DATE: 3-7-2008
JOB NO. 57884
Worksheet no. 5