

## ALP REVIEW CHECKLIST

The ALP Title Sheet will contain the following signed "ALP Review Statement":

**On behalf of the Illinois Department of Transportation, this Preliminary Airport Layout Plan (ALP) was prepared for the South Suburban Airport according to the applicable Advisory Circulars, the current version of the Great Lakes Region ALP Checklist, and accurately depicts the proposed use of airspace at the time of submittal. The Preliminary ALP conforms with FAA design standards, except as noted. It consists of four drawings: an Inaugural Airport Layout Plan Sheet, Inaugural Airport Data Sheet, a Future Airport Layout Plan and Future Airport Data Sheet. A cover sheet will be submitted later.**

### Airport Identification (to be completed by Sponsor or Consultant)

Airport: South Suburban Airport

City and State: Peotone, Illinois

Three-Letter Code: SSA

Airport Owner: Illinois Department of Transportation

### ALP Submission Information (to be completed by Sponsor or Consultant)

ALP Prepared by

Earth Tech, Inc.

Name of Consulting Firm

Mark Piltingsrud

Name of Individual

March 7, 2008

Date

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Internal QA/QC Review

Jerry Farrar; Alan Yazdani - ET

Name of Individual

March 1, 2008

Date

Sponsor Review

Terrence Schaddel - IDOT

Name of Individual

March 6, 2008

Date

Airport Planning Engineer and  
Environmental Officer

Title

### FAA Review (to be completed by FAA)

\_\_\_\_\_  
Name of Individual

\_\_\_\_\_  
Date

	Sponsor/Consultant			FAA
	Yes	No	N/A	
<b>I. Narrative Report</b>				
A. Basic aeronautical forecasts (0-5, 6-10, 11-20 years):	X			
1. Total annual operations	X			
2. Annual itinerant operations (all aircraft)	X			
3. Number of based aircraft	X			
4. Annual instrument approaches	X			
5. Annual itinerant operations by current critical aircraft	X			
6. Annual itinerant operations by future critical aircraft	X			
7. Number of enplanements	X			
8. State System Plan Forecasts/Critical Aircraft		X		
B. Explanation of proposed development items	X			
C. Rationale for unusual design features and/or modification to FAA Airport Design Standards requested and/or approved. This item must be either in the narrative report or clearly explained on the ALP.	X			
D. 14 CFR Part 77 Obstructions	X			
E. Development summary (including sketches and cost estimates) for stages of construction for:	X			
1. 0-5 years	X			
2. 6-10 years	X			
3. 11-20 years	X			
F. Shadow study for towered airports (negative or positive statements are required)		X		
G. Letters of coordination with all levels of government, as needed.			X	
<i>Remarks:</i> See "Projections of Aeronautical Activity for the Inaugural South Suburban Airport" DRAFT, May 2004 See "Demand/Capacity and Facility Requirements for the Inaugural South Suburban Airport", DRAFT, March 2005				

## II. Title Sheet

The scale of the Title Sheet should be developed to include the following:				
A. Title and revision blocks			NA	
B. Airport owner approval block			NA	
C. Date of ALP (date the airport sponsor/consultant signs the ALP)			NA	
D. Index of sheets			NA	
E. State Aeronautics Agency Approval Block			NA	
F. State outline with county boundaries. County in which airport is located should be highlighted.			NA	
G. Location map (general area)			NA	
H. Vicinity map (general area showing specific airport location)			NA	
I. Space for the FAA approval letter or stamp			NA	
J. ALP Review Statement			NA	
K. Modification to Standard Approval Block (if applicable, a separate written request, including justification, should accompany the modification to design standards)			NA	
<i>Remarks This is a Preliminary ALP and does not include a Title Sheet</i>				

<b>III. Airport Data Sheet</b>				
A. Title and Revision Blocks				
B. Wind Rose (all weather and IFR) with appropriate airport reference code, crosswind coverage, source of wind information and time period covered (for IFR runways applicable minimums should be included):	X			
1. 10.5, 13, 16, 20 knots windrose (based on appropriate airport reference code)	X			
2. Percentage of wind coverage/crosswind	X			
3. Source of data	X			
4. Age of data (last 10 consecutive years of data with most current data no older than 10 years)	X			
C. Airport data table	X			
1. Mean maximum temperature of hottest month	X			
2. Airport elevation (highest point of the landing areas)	X			
3. Airport Navigational Aids (NDB, TVOR, ASR, Beacon, etc.)	X			
4. Airport reference point coordinates (existing, future if appropriate, and ultimate)	X			
5. Miscellaneous facilities (taxiway lighting, lighted wind cone(s), ceilometer, etc.)	X			
6. Identify the following for each runway and stage of development:	X			
a. approach category	X			
b. design group	X			
c. tail height	X			
D. Runway Data Table	X			
1. Runway identification	X			
2. Visibility minimums (existing and future)	X			
3. Declared Distances (if applicable) (TORA, TODA, LDA, ASDA)			X	
4. Pavement Strength & Type	X			
5. Effective Runway Gradient (%)	X			
6. Runway dimensions (length and width)	X			
7. Displaced Threshold	X			
8. Runway safety area dimensions (actual existing and design standard)	X			

9. Runway end coordinates (NAD83) (include displaced threshold coordinates, if applicable)	X			
10. Runway lighting type	X			
11. Runway Protection Zone (RPZ) Dimensions	X			
12. Runway marking type (visual, non-precision, precision)	X			
13. 14 CFR Part 77 approach category (50:1; 34:1; 20:1)	X			
14. Approach Type (precision, non-precision, visual)	X			
15. Object Free Area and Precision Obstacle Free Zone Dimensions	X			
16. Visual and instrument NAVAIDs	X			
17. Taxiway safety area dimensions	X			
18. Taxiway lighting		N		
19. Identify the vertical/horizontal datum	X			

Remarks This is a preliminary ALP and does not include all of the required items

**IV. Airport Layout Drawing**

*Two sheets may be necessary for clarity, existing and proposed. The reviewer should be able to differentiate between existing, future, and ultimate development. If clarity is an issue, some features of this drawing may be placed in tabular format. North should be pointed towards the top of the page or to the left. (scale 1"=200' to 1"=600') (Pg. 129-132)*

A. Title and Revision Blocks	X			
B. Layout of existing and proposed facilities and features:	X			
1. True and magnetic North with year of magnetic declination, include Epoch year	X			
2. Airport reference point – locate by symbol (existing, future, and ultimate)	X			
3. Wind cones, segmented circle, beacon	X			
4. Contours (showing only significant terrain differences)	X			
5. Elevations:	X			
a. Runway – existing and ultimate ends	X			
b. Touchdown Zone Elevation (highest point in first 3,000 ft. RW)	X			
c. Runway high/low points (existing and future)	X			

d. Structures		X			
6. Building Restriction Lines (reference FAA AC 150/5300-13, paragraph 210; identify assumptions)	X				
7. Runway Visibility Zone	X				
8. Runway Details	X				
a. Dimensions – length and width (existing and ultimate)	X				
b. Orientation – true bearing to nearest 0.01 second (and runway numbers)	X				
c. End Coordinates – existing and ultimate degrees, minutes, seconds (to the nearest 0.01 second)	X				
d. Runway Safety Areas – actual, existing and ultimate	X				
e. Object Free Areas (OFA)	X				
f. Precision Obstacle Free Zone (POFZ)	X				
g. Obstacle Free Zone (OFZ)	X				
h. Clearways and stopways			X		
i. Runway Protection Zone (RPZ)	X				
j. 14 CFR Part 77 Approach Surfaces	X				
k. FAA AC 150/5300-13, Appendix 2 Runway End Siting Requirements, if applicable (see Attachment A guidelines)	X				
l. NAVAIDS – PAPI, ILS, MALSR, REIL, etc.	X				
m. Marking – thresholds, hold lines offsets, etc.	X				
n. Displaced threshold coordinates and elevation	X				
o. Label runway/runway intersection elevations			X		
p. Runway separation distances	X				
9. Taxiway Details (Taxiway Safety Area and Object Free Area extend the entire length of the taxiway):	X				
a. Dimensions – width (existing and ultimate)	X				
b. Taxiway Object Free Area	X				
c. Taxiway Centerline Separation from:	X				

i. Runway centerline	X				
ii. Parallel taxiway	X				
iii. Aircraft parking	X				
iv. Objects		X			
10. Fences (identify height)	X				
11. Aprons (dimensions)		X			
12. Roads	X				
13. Legend	X				
14. Building table (including building elevations)	X				
15. Any ATCT line of sight shadow areas (use separate sheet if necessary)			X		
16. General Aviation development area (i.e., fuel facilities, FBO, hangars, etc) – greater detail can be shown on the terminal area drawing	X				
17. Existing and future airport property lines and easements	X				
18. Major airport drainage ditches		X			
19. Facilities and movement areas that are to be phased out, if any, are described		X			

*Remarks This is a Preliminary ALP and does not include all of the required items*

**V. Airport Airspace Drawing**

*(Part 77) Scale 1" = 2000' plan view, 1" = 1000' approach profiles, 1"=100' (vertical) for approach profiles (Pg. 132)*

A. Title and Revision Block		X			
B. Plan view (based on ultimate runway lengths)		X			
1. USGS Quad Sheet for base map		X			
2. Runway end numbers		X			
3. 50' elevation contours on sloping surfaces (NAVD88)		X			
4. Top elevations of penetrating objects (refer to the inner portion of the approach surface drawing, pg. 133-134)		X			
5. Note specifying height restriction (ordinances/statutes, pg. 133)		X			
C. Profile view (optional)		X			
1. Ground profile		X			
2. Significant objects (bluffs, rivers, roads, schools, towers, etc.)		X			
3. Existing and ultimate runway ends and approach slopes		X			

D. Obstruction Data Tables (identify obstacles not depicted on the Inner Portion of the Approach Surface Drawing)	X	
1. Object identification number	X	
2. Description	X	
3. Amount of surface penetration	X	
4. Proposed or existing disposition of the obstruction	X	

*Remarks This sheet will be developed and included in the Final ALP submittal. Partial information is shown on the Inaugural and Future ALP sheets and in the Inaugural and in the Inaugural and Future Runway Data Sheet.*

**VI. Inner Portion of the Approach Surface Drawing**

*Scale 1"=200' Horizontal, 1"=20' Vertical (Pg.133) Two sheets may be necessary for clarity. Typically, the plan view is on the top half of the drawing and the profile view is on the bottom half.*

A. Title and Revision Block			X		
B. Plan View (existing and ultimate)			X		
1. Inner portion of approaches shown to edges of paper (or to the limits of the RPZ)			X		
2. Aerial photo for base map when available			X		
3. Objects (identified by numbers)			X		
4. Property line within approaches			X		
5. Road & railroad elevations, plus movable object heights			X		
6. Physical end of runway, end number, elevation (NAVD88)			X		
7. Airport Design Surfaces			X		
a. Runway Safety Area			X		
b. Runway Object Free Area			X		
c. Runway Obstacle Free Zone			X		
d. Runway Protection Zone			X		
e. Precision Obstacle Free Zone			X		
8. Ground contours			X		
C. Profile view			X		
1. Existing and proposed runway centerline ground profile			X		
2. Future development from plan view			X		
3. Part 77 Approach/transition surface			X		
4. AC 150/5300-13, Appendix 2 Runway End Siting Requirements, if applicable			X		

5. Terrain in approach area (fences, streams, etc.)			X		
6. Objects – identify the controlling object (same numbers as plan view)			X		
7. Touchdown zone elevation (highest point in first 3,000 ft. of runway)			X		
8. Cross section of road & railroad			X		
9. Existing and proposed property and easement lines			X		
D. Obstruction tables for each approach surface (surface should be identified)			X		
1. Object identification number			X		
2. Description			X		
3. Allowable Part 77 elevation			X		
4. Amount of surface penetration			X		
5. Proposed disposition of Part 77 obstruction			X		
6. Triggering Event (i.e., Runway extension) –Timeframe/expected date for removal			X		
7. Allowable Appendix 2 surface elevation (if applicable)			X		
8. Amount of Appendix 2 surface penetration (if applicable)			X		
9. Proposed disposition of Appendix 2 surface obstruction (if applicable)			X		
10. 150/5300-13, Appendix 2 Surfaces (15:1, 20:1, 34:1, 40:1, 62.5:1)			X		
<i>Remarks This sheet will be developed and included in the Final ALP submittal</i>					
<b>VII. Terminal Area Drawing (p. 134)</b>					
A. Title and Revision Blocks			X		
B. Plan view of aprons, buildings, hangars, parking lots			X		
C. Building data table			X		
1. Structure identification number			X		
2. Top elevation of structures (AMSL)			X		
3. Obstruction marking/lighting (existing/future)			X		
D. Buildings to be removed or relocated noted			X		
E. Fueling facilities, existing and future			X		
F. Air carrier gates positions shown, indicated by circles (existing/future)			X		

G. Existing and future security fencing with gates			X		
H. Building restriction line (BRL) (identify height of building used)			X		
I. Taxiway or taxilane centerlines designated			X		
J. Aprons, taxiways, clearances, etc. dimensioned			X		
K. Auto parking (existing/future)			X		
L. Major airport drainage ditches			X		
M. Special Use Area (i.e., Agricultural spraying)			X		
<i>Remarks This sheet will be developed and included in the Final ALP submittal</i>					
<b>VIII. Land Use Drawing (p. 134)</b>					
<i>Scale 1"=200' to 1"=600'.</i>					
A. Title and Revision Blocks			X		
B. Airport boundaries, existing and future (fee and easement)			X		
C. Plan view of land uses by category (Agricultural, Aeronautical, Commercial, Residential, etc.)			X		
D. Boundaries of local government			X		
E. Land use legend			X		
F. Public facilities (schools, hospitals, parks, churches etc.)			X		
G. Runway visibility zone for intersecting runways			X		
H. Show off-airport property out to 65 LDN, if available			X		
<i>Remarks This sheet will be developed and included in the Final ALP submittal</i>					
<b>IX. Airport Property Map (p. 135)</b>					
<i>Scale 1"=200' to 1"=600'.</i>					
A. Title and Revision Blocks			X		
B. Plan view showing parcels of land (existing and ultimate)			X		
1. Fee land interests (existing and future)			X		
2. Easement interests (existing and future)			X		
a. Part 77 protection			X		
b. Compatible Land Use			X		
C. Legend – shading/cross hatching, survey monuments, etc.			X		
D. County/Township/Range and vicinity map			X		
E. Data Table			X		

1. Number or letter and area of each parcel or easement			X		
2. Date property was acquired or property status			X		
3. Federal Aid project number under which the property acquisition was reimbursed			X		
4. Type of funds used to acquire land (i.e., AIP-noise, AIP-entitlement, PFC, other)			X		
5. Grantor of property			X		
<i>Remarks This information will be developed and included in the Final ALP submittal.</i>					