Helipad Design and Best Practices
Objectives

• Agencies Involved
• Applicable Regulations
• Helipad Design
• Best Practices
AGENCIES INVOLVED

- INDOT - Aeronautics
- FAA
- NFPA
- State & Local – Fire Dept
- Local Planning & Zoning
APPLICABLE REGULATIONS

FAA Advisory Circular – AC150/5390-2C
- Airspace Safety – Flight Paths
- FAA Form 7480-1
- Lighting
- Windcone
- VFR/IFR
- FAA Form 5010-5
ESSENTIAL FEATURES OF A HELIPAD

Figure 4–1. Essential Features of a Ground-level Hospital Heliport: Hospital

Note: Locate the security fence and wind cone so that they will not interfere with the approach/departure path or transitional surface.
### HELIPAD DESIGN

#### HELIPAD DESIGN

<table>
<thead>
<tr>
<th>DIM</th>
<th>ITEM</th>
<th>VALUE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Minimum TLOF Length</td>
<td>1 RD but not less than 40 ft [12 m]</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Minimum TLOF Width</td>
<td>1 RD but not less than 40 ft [12 m]</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Minimum FATO Length</td>
<td>1 ½ D</td>
<td>See Paragraph 406.b (1) for adjustments of elevations above 1,000 ft</td>
</tr>
<tr>
<td>E</td>
<td>Minimum FATO Width</td>
<td>1 ½ D</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Minimum Separation Between the Perimeters of the TLOF and FATO</td>
<td>½ D - ½ RD</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Minimum Safety Area Width</td>
<td>see Table 4-1</td>
<td></td>
</tr>
</tbody>
</table>

Note: For a circular TLOF and FATO, dimensions A, B, C and E refer to diameters.

**Figure 4-2.** TLOF/FATO Safety Area Relationships and Minimum Dimension: Hospital
Helipad Options

Roof-Top

- short transit for patient/ direct access to emergency department
- increased air safety due to decreased air-space obstructions
- less constraining to future development plans
- reduced environmental impact to hospital and its neighbors
- reduced noise and rotorwash
- increased aircraft security and public safety

Cost: $750,000 - $1.5 M

On-grade

- more cost effective solution to build
- Less requirements for fire and rescue equipment
- minimal operating costs
- Easier to retrofit onto existing campuses (if building structure is existing)

Cost: $100,000 - $250,000