

SEARCH AREA ESTABLISHMENT WORKSHEET

____ PLOT IMPORTANT POINTS ON TOPO MAP

Obtain a USGS 1:24,000 scale topographical map of the immediate areas surrounding the IPP. Immediately mark the following applicable items on the map:



PLS , LKP, or IPP (*Indicate which on map*)



Clue (*Indicate number and location in GPS/ UTM*)



Command Post



Staging Area



Helicopter Landing Zone

____ DETERMINE & PLOT THEORETICAL SEARCH AREA

Formula: *Theoretical Search Area = (subject speed) x (time elapsed since last seen)*

Subject speed / travel profile(s) from **TAB 9**: _____

Subject speed from table for given profile: _____ MPH

Time elapsed since subject last seen: _____ HOURS

_____ MPH x _____ HOURS = _____ THEORETICAL SEARCH AREA

PLOT the Theoretical Search Area on the topo map as a **Dashed Blue Circle** out to the proper radius (to scale) from the IPP. If time makes this impractical (>4 hours) this step may be omitted.

____ DETERMINE AND PLOT MEDIAN & 90% PROBABILITY DISTANCES

List all applicable subject profiles: _____

List primary profile being considered: _____

Primary profile Median _____ MILES Primary profile 90% _____ MILES

PLOT both distances on the topo map as **Green Circles** out to the proper radius (to scale) from the IPP. The Median circle should be solid and the 90% circle should be dashed.

_____ IDENTIFY THE INITIAL SEARCH AREA BOUNDARY

Once all circles have been drawn, examine physical features and determine the initial search area using the probability information as a reference. The size of the initial search area MUST be large enough to contain the Median (or 50%) search probability zone (as indicated on the map), and should include as much of the 90% area as well. However, serious consideration should be given to major physical boundaries past which the subject would not reasonably be assumed to cross (these may be natural or man-made). When these boundaries are believed to exist, areas may be disqualified provided the reasoning and justification is thoroughly documented.

NOTE: *Remember that once established, the entire initial search area must be searched in some way (unless later discounted through new evidence) before the search may be suspended.*

PLOT the initial search area boundary on the map using a **Solid Red Line**. Once this is accomplished, the theoretical, median, and 90% circles may be erased to 'clean up' the map.

NOTE: *Additional map markings, in the sequence specified in Checklist #3, should be carried out in the manner prescribed below, for sake of consistency:*

Probability Regions – **Solid Green Lines with Alphabetical Designators (A, B)**

Searchable Segments – **Solid Black Lines with Alphanumeric Designators (A1, B3)**