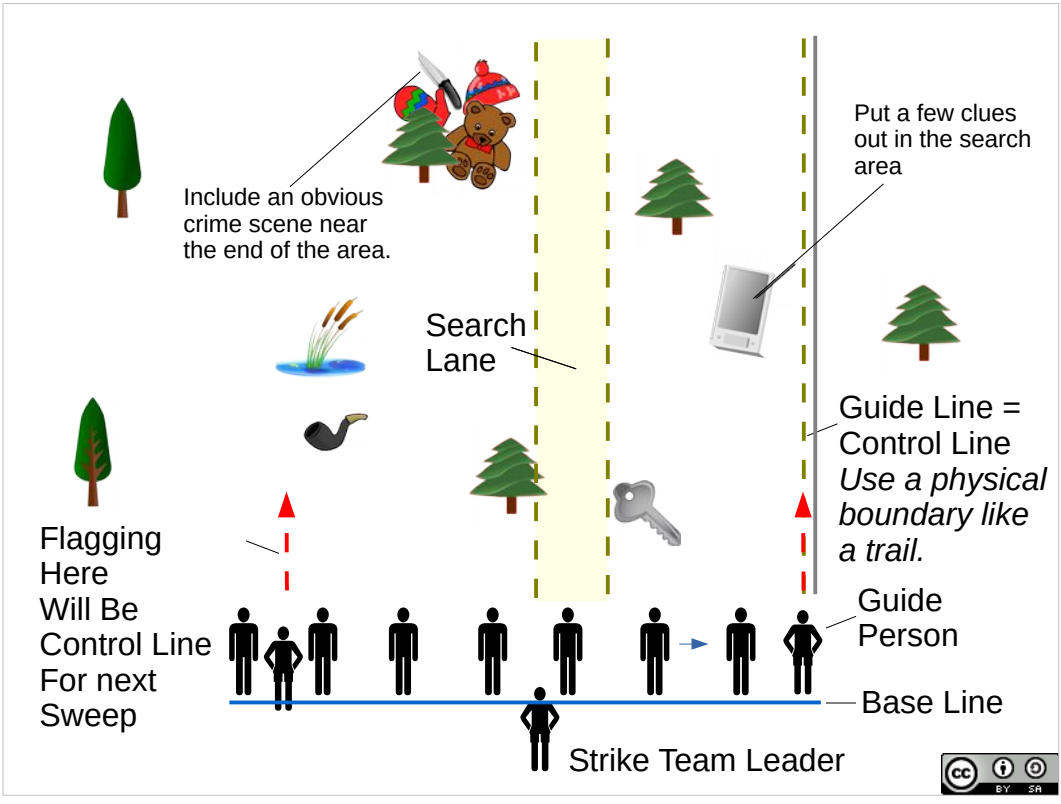


# Explanatory Diagrams for Practical Evolutions

- Unit 14: Practical Evolution 1
- Unit 21: Practical Evolution 2
  
- Date last updated: 12/14/2017

# Unit 14: Practical Evolution 1

- Objectives:
  - Understand base line, control line, search lane.
  - Understand maintaining constant distance from person on control lane side.
  - Understanding clue flagging. Understanding crime scene preservation.
- The Problem:
  - Type III grid search along a physical handrail/ control line.
  - Single sweep, perhaps 100 meters deep, setting up for the next sweep, but not working an entire segment.



Flagging Here Will Be Control Line For next Sweep

Put a few clues out in the search area

Search Lane

Guide Line = Control Line  
Use a physical boundary like a trail.

Guide Person

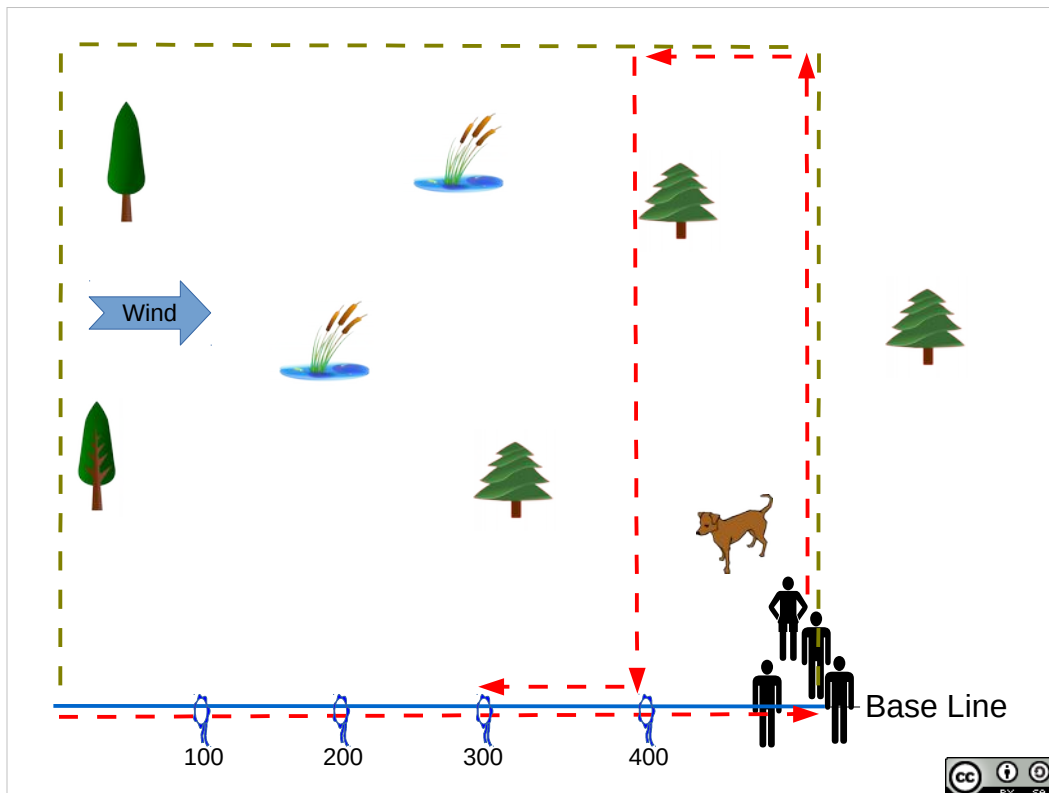
Base Line

Strike Team Leader

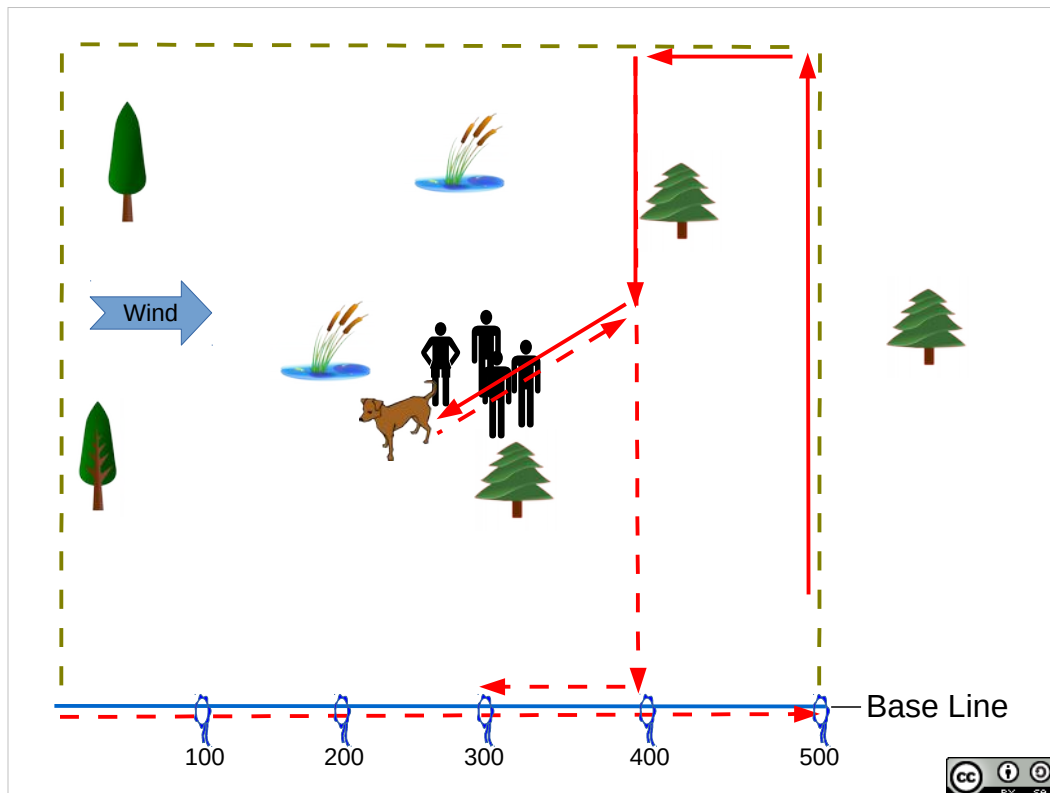


## Unit 21: Practical Evolution 2

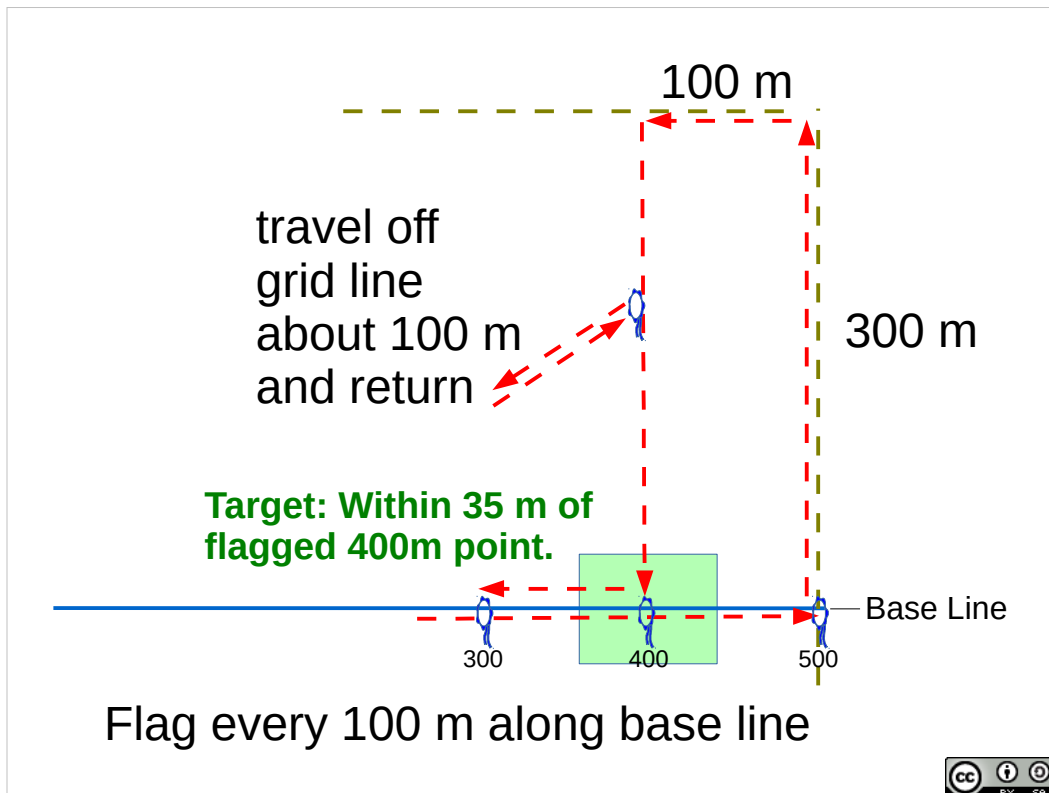
- The Problem:
  - Navigating a wilderness air scent canine grid for a 40 acre problem.
  - Simple case: Rectangular area about 300x500m, constant wind along long axis of area, straight trail or road for baseline.
  - Complication: Handler may follow the dog off the grid, but want to return to the grid.



Initial plan. (1) Flag every 100 meters along base line. (2) Start grid at downwind end of base line. (3) Navigate out 300 meters. (4) Navigate back parallel to base line 100 meters (or grid spacing set by canine handler). (5) Navigate 300 m on back bearing of initial grid line, back to flagged 400m point on the base line. Note error in position and distance from marked 400m point. (6) Move along baseline to the 300m flag (having this point flagged prevents navigation errors from accumulating). Then repeat.



Complication: The dog may show interest (untrained behaviors indicating they are in human scent), and the handler may follow the dog some distance off the grid line. Flag the point of departure from the grid line. Record the location and the wind direction at that point. Follow the handler off the grid (noting direction of travel and distance traveled. When the handler decides the dog is no longer working into scent, backtrack to the marked point on the gridline to continue the grid. (Have a backup plan to navigate back to the baseline if you can't find your flagging to start that grid line again).



Layout for the practice evolution, with desired target of returning to within 35 meters (5% error) of the marked 400m point at the end of the second 300m grid line. For uneven terrain, navigating around obstacles, dense brush, or other deviations from relatively flat open woodlands, within 50m (7% error) of the marked 400m point is a more realistic target.