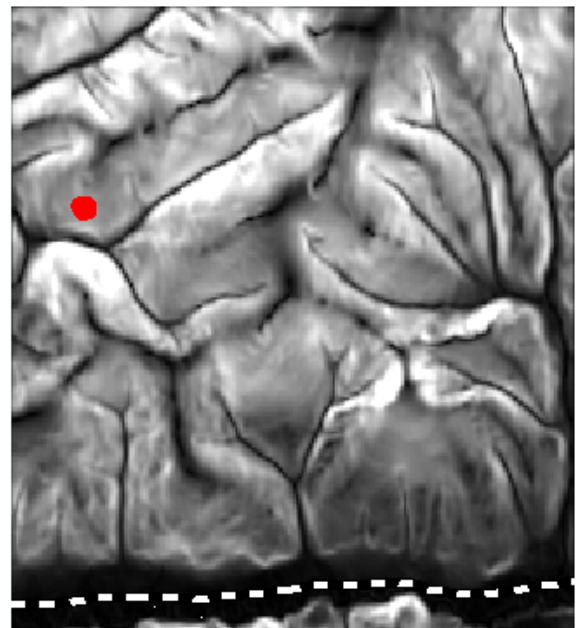


QUIZ# 10 Cost Path Analysis

Download and unzip the geodatabase **CostPath_2018.gdb** from the website:
http://dverbyla.net/nrm435/quiz_data_2018/

Road construction cost increases as slope steepness increases. The construction costs per meter are:

- < 5 percent slope \$1.00
- 5 - < 10 percent slope \$2.00
- 10 - < 20 percent slope \$4.00
- 20 < 30 percent slope \$10.00
- 30 – 35 percent slope \$20.00
- Greater than 35 percent slope is too steep for safe travel (barrier to road construction)



Estimate the minimum possible construction cost for a candidate new road from the existing road to the wildfire polygon. In your solution table, include the length of your candidate new road in KM and the total cost of new road construction in \$.

All geoprocessing output should be stored in **CostPath_2018.gdb** container.

Save your work. Then create a map package: File→Share As→ Map Package...Save package to file (**do NOT check on Enterprise**)

Include Enterprise Geodatabase data instead of referencing the data

Also share your map package to a folder location, **not** to your geodatabase container.

Email me (dverbyla@alaska.edu) your map package **mpk** file. (not your arcmap document .mxd file) as an attachment (extensions are hidden by default)