

Alternative Analysis

The purpose of this document is to summarize each alternative including a brief description of its benefits and drawbacks.

Common Elements

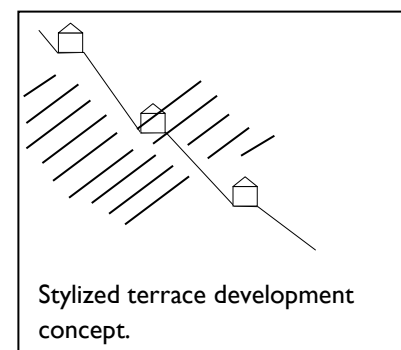
Both alternatives have the following elements in common:

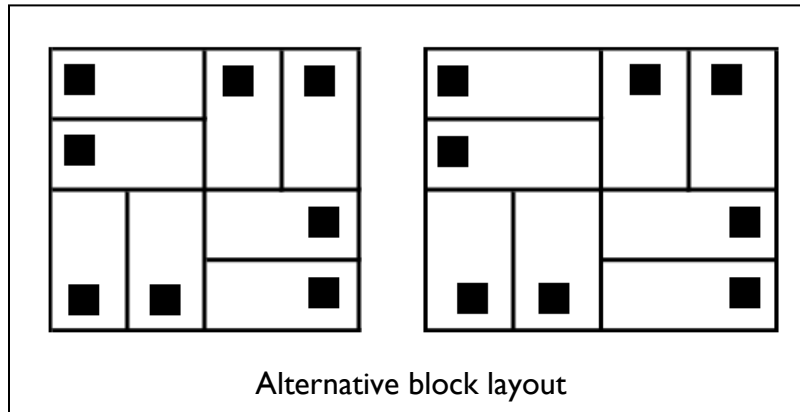
- Centrally located community facilities.
- Evacuation center location.
- Fish camp and berry patches at the community identified locations.
- Recreation area located near the berry patches
- Airport Alternative #1 and 1A.
- Road to gravel source crosses the Runway Protection Zone of Airport Alternative #1A.
- Location of barge landing ramp and associated road.
- Well and well protection area.
- Power plant/tank farm building located near the barge landing to make it easier to off-load fuel.
- Power plant/tank farm building located near the washeteria/water treatment plant building.
- School and teacher housing located at edge of community center and residential area.
- Landfill, sewage lagoon, recycling center and incinerator located east of the community. Additional study of this site is recommended to determine the flooding potential.
- Residential lots range in size from 0.3 acres to 0.65 acres.
- Road rights-of-way of 40 feet and trail rights-of-way of 20 feet.
- Located on the north side of the ridge to allow views of Baird Inlet.

Alternative I – Terraces

The benefits of this alternative are:

- Each row of housing is intended to be at a different elevation providing privacy and better views (see image at right).
- Roads follow contour lines making them easier to travel on and to construct. Trails are located in the residential areas to provide additional connectivity.
- Easy to add additional housing. There are 77 lots which can be expanded to 212.
- Lots are oriented toward Baird Inlet providing a better view of the water.
- Lots are rectangular in shape and are similar in size.
- Blocks are rectangular in shape and could be configured differently (see following drawing). This would slightly reduce the number of lots available.





Some drawbacks to this alternative include:

- Lots face main east-west roads which may have higher traffic volumes.
- A northern facing slope which tends to be shadier than a southern facing slope.

Alternative 2 - Waves

The benefits of this alternative include:

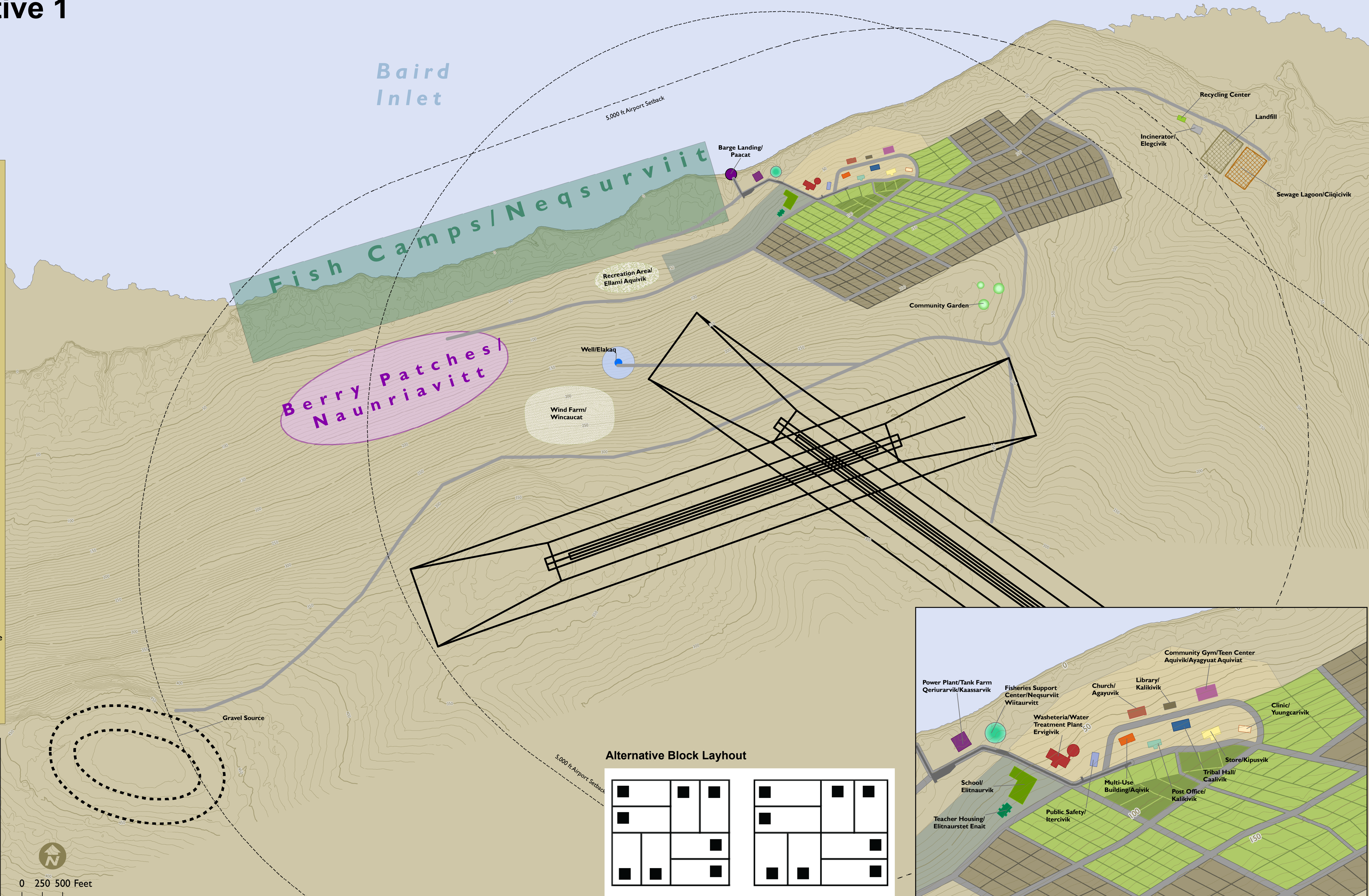
- Circular community center
- Better road connectivity to community center.
- East-west roads follow contour lines making them easier to travel on and to construct. Trails are located in the residential areas to provide additional connectivity.
- Curved cross-streets allow residential to be slightly off-set providing more privacy.
- Curved cross-streets are less steep making it easier for pedestrians. Depending on local terrain, the curve can be increased.
- Residential lots face cross streets which are likely to have lower traffic volumes.
- Easy to add additional housing. There are 89 lots which can be expanded to 171.
- Wind farm is located further away from residential areas.

Some drawbacks to this alternative include:

- Lots are more irregularly shaped and have more variation in size.
- Lots don't face Baird Inlet
- A northern facing slope which tends to be shadier than a southern facing slope.

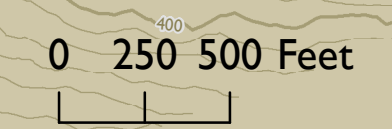
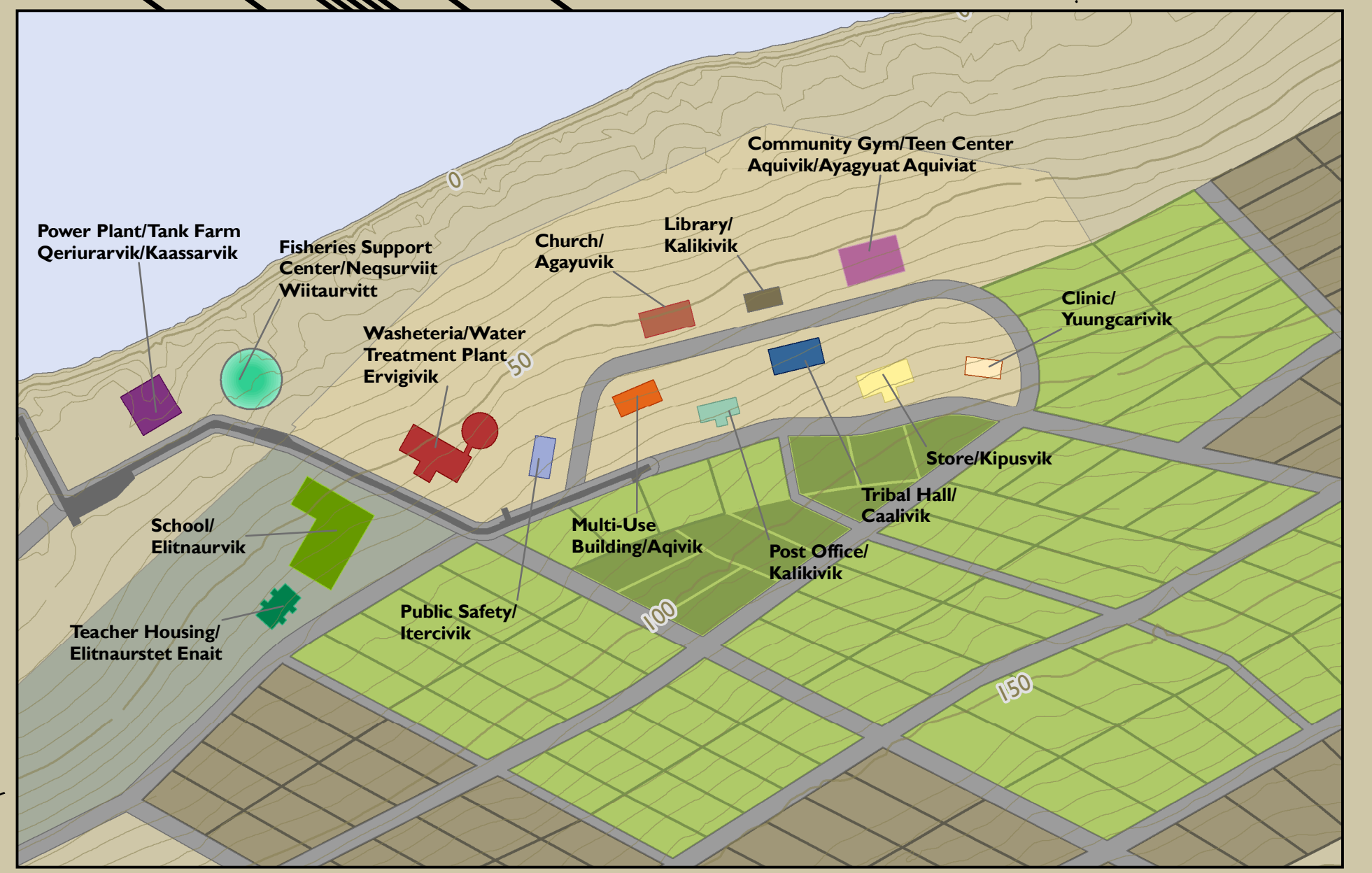
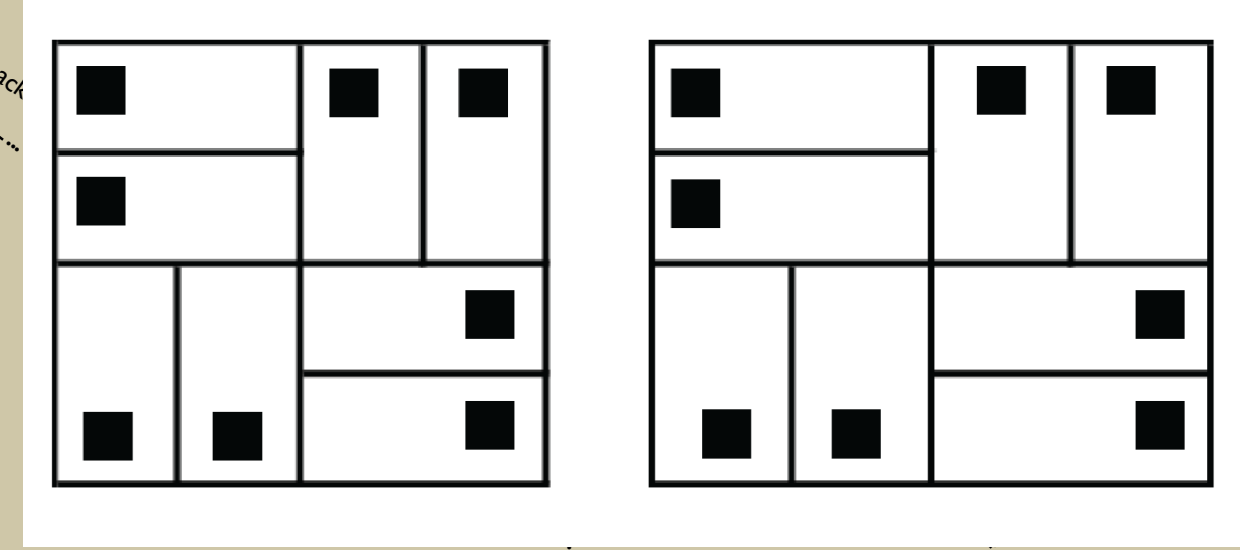
Alternative 1

- Legend**
- Community Area
 - Elder Housing
 - Future Housing
 - Housing
 - School Property
 - Community Garden
 - Recycling Center
 - Library/Kalikivik
 - Recreation Area/ Ellami Aquivik
 - Incinerator/Elegcivik
 - Wind Farm/Wincaucat
 - Church/Agayuvik
 - School/Elitnaurvik
 - Post Office/Kalikivik
 - Public Safety/Itercivik
 - Tribal Hall/Caalivik
 - Sewage Lagoon/Ciiqicivik
 - Washeteria/ Water Treatment Plant/Ervigivik
 - Clinic/Yuungcarivik
 - Power Plant/Tank Farm/ Qeriurarvik/Kaassarvik
 - Community Gym/Teen Center/Aquivik/ Ayagyuat Aquiviat
 - Store/Kipusvik
 - Teacher Housing/ Elitnaurstet Enait
 - Multi-Use Building/Aqivik
 - Barge Landing/ Paacat Uciiruiit
 - Water Source/Elakaq
 - Berry Patches/ Naunriavitt
 - Fisheries Support Center/ Neqsurviit Wiitaurvitt
 - Wellhead Protection Zone
 - Fish Camps/Neqsurviit
 - Existing Road
 - Planned Road/Trail/ROW
 - Airport/Misvik
- Produced by HDR Alaska on Behalf of the Newtok Traditional Council October 2010



Berry Patches/
Naunriavitt

Alternative Block Layout



Alternative 2

Legend

- Community Area
- Elder Housing
- Future Housing
- Housing
- School Property
- Community Garden
- Recycling Center
- Library/Kalikivik
- Recreation Area/ Ellami Aquivik
- Incinerator/Elegcivik
- Wind Farm/Wincaucat
- Church/Agayuvik
- School/Elitnaurvik
- Post Office/Kalikivik
- Public Safety/Itercivik
- Tribal Hall/Caalivik
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