GIVING NEW LIFE
This thesis project is the exploration of how technology may serve to reveal architectural opportunities within a damaged landscape. There are many places around the planet which have been used and then left to repair themselves without the aid of the hands who caused the damaged. These places need to be reconsidered for future projects. Taking the technological knowledge of professionals we now can reveal architectural opportunities which will not only repair the landscape but give it new life.
How does technology serve to reveal the architectural opportunities for working within (i.e. restoring) a damaged landscape?
SITE HISTORY

- 1848 – Bingham brothers were sent to settle the area, discovered minerals
- 1863 – Extraction of ore began
- 1868 – Mining slowed due to high cost of wagon transportation
- 1873 – The Utah Central Railroad revived load mining.
- Late 1890's – Nearly all of the smaller claims were consolidated into a few larger ones
- 1900's – The formation of Utah Copper Company (later Kennecott Copper Corporation) to become the largest open-pit mine in the world.
WHY HERE?

- Operations are near completion
- Has become a tourist destination
- Would like to maintain it as a tourist destination
- Great location
- Easy access
- Challenging
IN THE BEGINNING

• Convert the mine into a landfill

• Transport by rail the trash from coastal cities to keep it from being dumped into the oceans.

• When filled use methane created from waste to power a small community which would be developed on the site.

• After months of research it was determined that it was not a feasible idea.
RECLAMATION

- Allow mine to fill with water and drain naturally
- Create wetlands to cleanse the water before it reaches the valley floor
- Cover the waste rock emplacements with topsoil and native vegetation
- Provide public access to the site
- Provide a place for visitors to stay
  - Private cottages
  - Hotel accommodations
SITE VISIT

FROM CURRENT VISITORS CENTER

FROM ABOVE THE MINE
Waste Rock Emplacements

Which location?
- Planted material
- Growing mesh
- Root control
- Roof membrane
- Slopped rigid insulation
- Concrete slab
- Metal furring
- Gypsum wall board

- Aluminum cap
- Copper Panels
- Gypsum board
- Soy based polyurethane insulation
- Steel stud
- Heavy gauge rain diverter