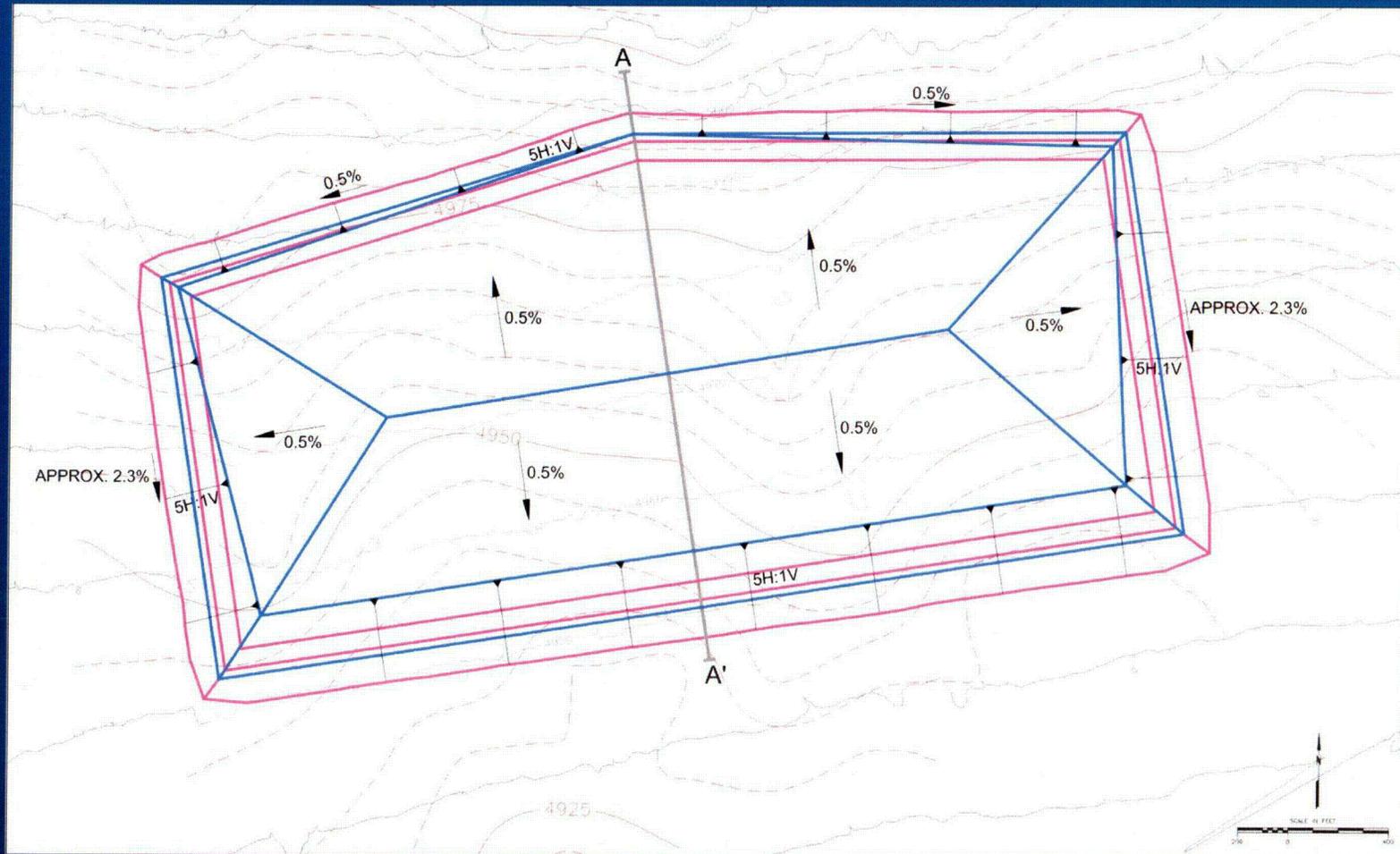


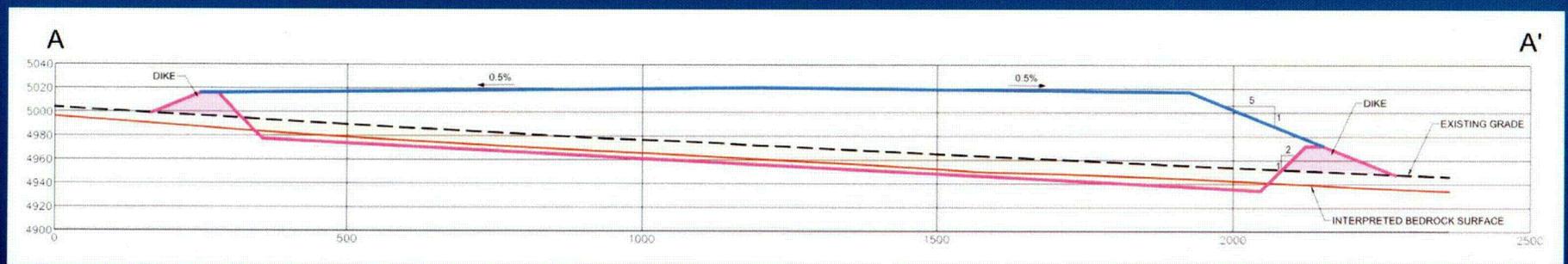
Disposal Cells



Conceptual Cell Layout



Typical Cross Section



Storm Water Hydraulics

- Final design criteria will be for the Probable Maximum Flood (PMF)
- Construction criteria are for the 25-year, 24-hour event
- Riprap sizing will be developed for D50 size versus slope

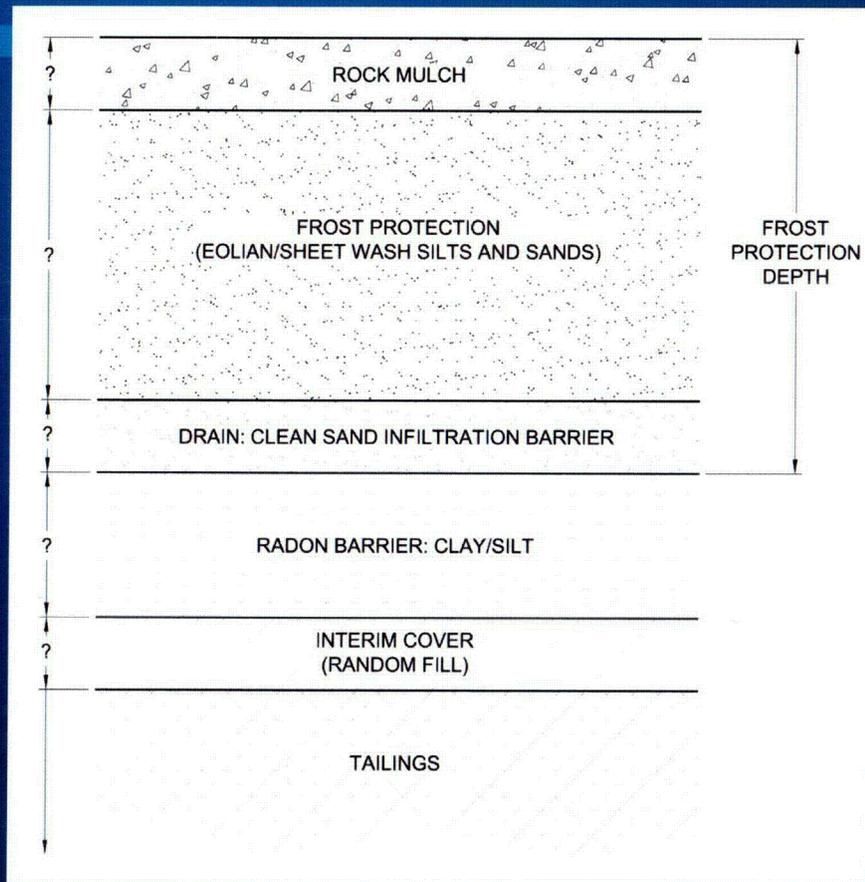
Cover Slope

- Current design is a “roof top” layout
- Design will change as calculations are completed
 - Erosion potential
 - Cell volume
 - Tailings pile volume
 - Storm water discharge

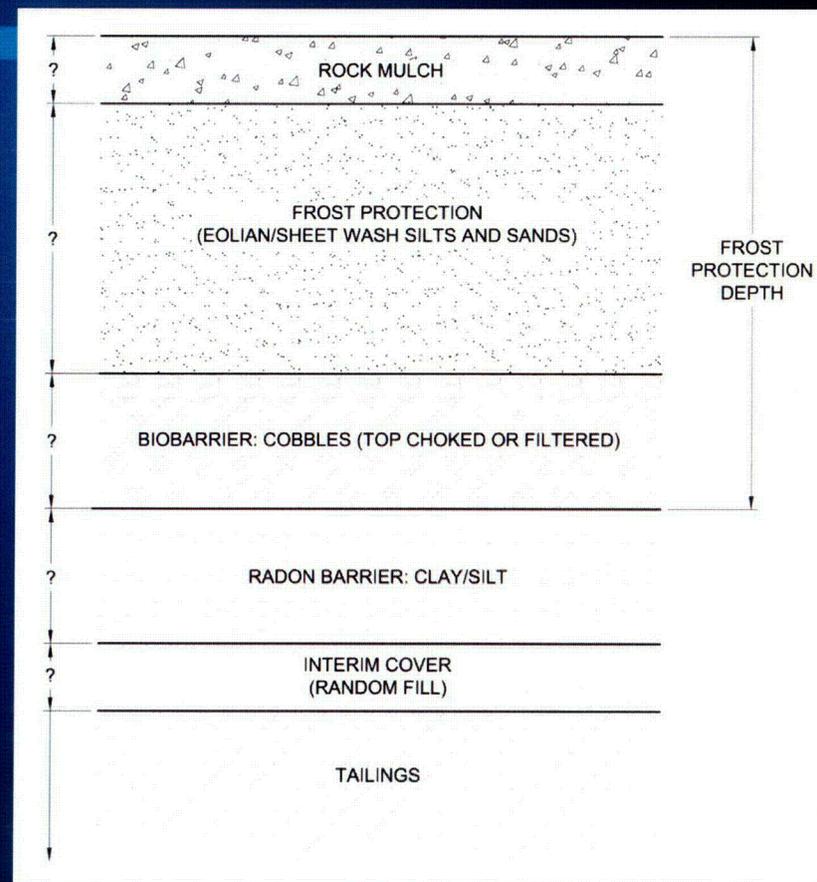
Cover Details

- Cover will meet the maximum emission limit of 20 picocuries per square meter per second
- Point of compliance will be top of the radon barrier or top of the cover with the alternative cover design
- Cover will be designed to meet freeze/thaw and bio-intrusion requirements

Cover Details (continued)

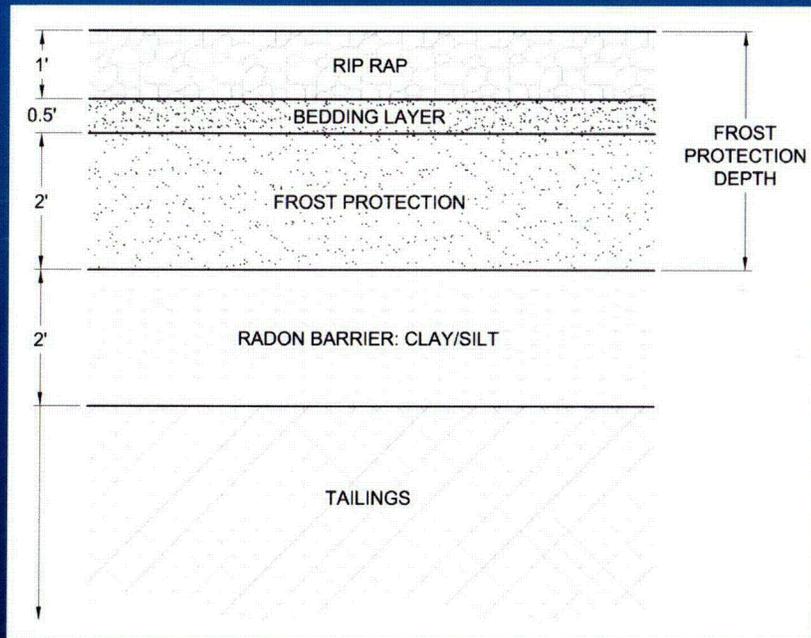


UMTRA Checklist Top Cover
Without Biobarrier



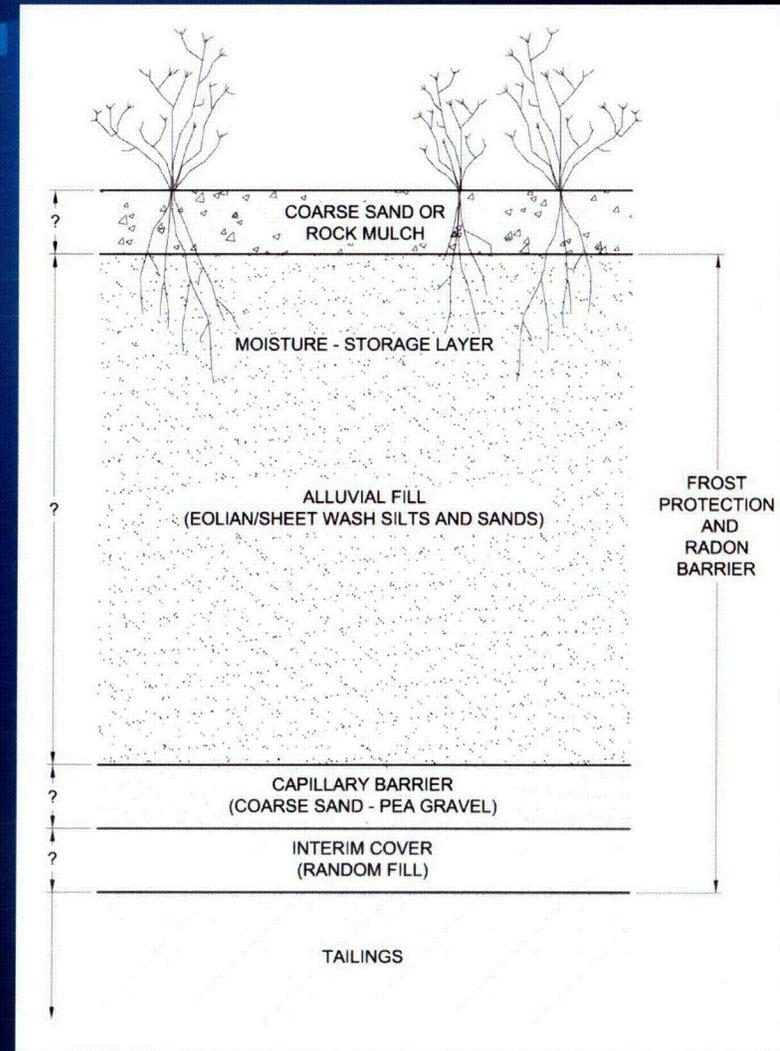
UMTRA Checklist Top Cover
With Biobarrier

Cover Details (continued)



Grand Junction/Cheney
Disposal Cell Top Cover

Alternate Top Cover



Cell Design

- Liquefaction
- Slope stability
 - Waste and waste plus side slopes
 - Design properties from analytical data
- Settlement of tailings and cover cracking

Tailings Volume Estimate

- Top surface from October 2005 flyover
- Bottom surface estimated from cone penetrometer tests and borehole data
- Total volume of pile is 10.4 million cubic yards
- Additional volume from off-pile and subpile areas and vicinity properties (1.6 million cubic yards)