ski center fargo

spring 2010 design thesis

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downhill skiing in fargo?
Photos made and used with permission by Ms. Ralitsa Bondzheva on locations in Kitzbuhel & Kaprun in Tirol and Zell am See, Austria
need of a slope
numerous waste fields around the country grow and are considered a burden...
site
process
1. Future development of the site itself
2. Design of the site
3. Samples
4. Change of the hill design
5. Aquaculture
final solutions
plan lower station
plan upper station
9. plate /bolt connection
11. 2" rigid insul. around perimeter (typ.)
13. corrugated ext. paneling over bldg. wrap
14. drain space
15. "green roof" system
16. 3" composite roof panel
17. roof decking
18. steel column, vert. size by struc.
19. horiz. steel reinf. beam
1. drain pipe
2. fill
3. compacted solid waste
4. permeable / soft fill
5. waterproof barrier
6. light conc. paneling
7. top soil over membrane
8. compacted engineered fill
9. plate / bolt connection
10. aluminum struct. column
11. 2" rigid insul. around perimeter (typ.)
12. horiz. reinf. beam
13. corrugated ext. paneling over bldg. wrap
14. drain space
15. "green roof" system
16. 3" composite roof panel
17. roof decking
lower station – south elevation
lower station – north elevation
lower station – west elevation
upper station – south elevation
upper station – east elevation
upper station north elevation
section b-b
1. steel / alum. frame
2. translucent two layer insulating polycarbonate plate
3. steel / alum. main support column
4. base plate
5. coiling door @ public entrance

plan detail at ext. wall
Thank you