

## **SITE DRAINAGE SUBMITTALS**

### **Preliminary Design**

Due Date: Thursday, September 18, 2008

1. Review the City of Boulder's Design and Construction Standards for Storm Water Design (on the class web page).
2. Describe the purposes of a storm water management plan with respect to water quantity and water quality at the IBS building site.
3. Provide a site description including total area, general topography, existing ground cover, groundwater conditions, existing storm water system, and nearest major off-site flood drainageway.
4. Describe the changes to paved/unpaved areas before and after the IBS building and how they will contribute to the storm drainage pattern at the site.
5. Identify the physical elements of your team's stormwater management plan for the IBS site, including any grading as well as gutters, storm drains, retention ponds, erosion control, plants, etc.
6. Prepare a site map indicating storm drainage flow and on- and off-site stormwater control features when the IBS building is completed.

### **Intermediate Design**

Due Date: Thursday, October 30, 2008

1. Determine rainfall and runoff conditions at the IBS site for the Initial Storm (5 year) and the Major Storm (100 year).
2. Select and size drainageways for the IBS site.
3. Describe if and how your design meets applicable LEED credits for stormwater management: SS 5.1, 5.2, 6.1 and 6.2.
4. Prepare plan and elevation site maps showing location and size of stormwater design features, including landscaping and barriers.

### **Final Design**

Due Date: Thursday, December 11, 2008

1. Specify runoff management and erosion control measures which will be necessary during construction.
2. Specify maintenance activities at the site necessary to maintain stormwater runoff control system.