

UMD 502 – Post-Construction Storm Water Management BMP

Title: **Infiltration / Retention / Detention Centers**

Addresses Minimum Measures: III Illicit Discharge Detection and Elimination
V Post-Construction Storm Water Management

Target Audience: University Employees
Engineers and Architects
Contractors

Description: Investigate the feasibility of infiltration / retention / detention centers (IRDC) in drainage zones 1, 2, 5, and 6. This would include design and possible modifications to existing wet ponds for retention capabilities, and the design and possible construction of new facilities.

Measurable Goals:

1. Investigate and design modifications to Eric Clarke Pond
2. Investigate and design IRDC in Zone 2
3. Investigate and design IRDC in Zone 1
4. Construct (if feasible) modifications to Eric Clarke Pond
5. Construct (if feasible) IRDC in Zone 2
6. Investigate and design modifications to Fire Hall Pond
7. Construct (if feasible) IRDC in Zone 1
8. Construct (if feasible) modifications to Eric Clarke Pond

Timeline:

- September 2004
- September 2004
- September 2005
- December 2005
- December 2005
- September 2006
- December 2006
- December 2007

Specific Components:

- The centers should address water temperature, suspended solids, storm surge, floatables, and parking lot oils and greases.
- Minimum goal to reduce the impact of existing impervious surfaces and future small maintenance type construction projects.
- If feasible, size the center (or design for expansion) for future planned development
- Work with City of Duluth on Zone 1 issues.
- Work with the DNR on water temperature issues in Zone 2.
- Document investigation findings and design options.

Educational Components:

- None

NOTE: Ability to construct as scheduled is dependent on State of Minnesota Legislative funding. If state funding is not available, other potential funding sources will be reviewed.

Responsible Party: UMD Storm Water Steering Committee
Contact: UMD Facilities Management (218) 726-8262