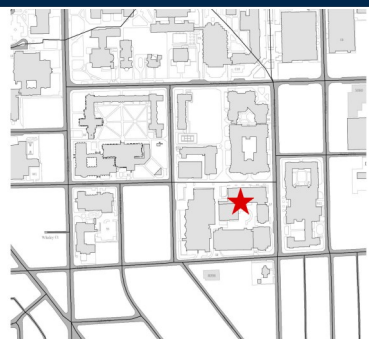




# STORM WATER MANAGEMENT PROJECTS



## Drainage Area:

1.9 acres

## Watershed Protected:

Storm sewers in this area discharge to Allen Creek at Hill St. and Hoover Ave.

## Soil:

Well-drained sandy soil

## Construction Completed:

2015

## Storm Water Control Measures:

- Water quality devices
- Underground infiltration basins

## U-M Maintenance:

Removing sediment from water quality device



## Stephen M. Ross School of Business Infiltration (Jeff T. Blau Hall)

In 2008, the Stephen M. Ross School of Business building and Kresge Library addition were constructed together as a LEED® Silver certified project with a variety of storm water control measures (refer to separate project sheet). In 2015, as part of the Ross School of Business complex, Jeff T. Blau Hall was constructed adding water quality devices and underground infiltration basins to manage storm water per the U-M Storm Water Permit. The information provided herein reflects the 2015 construction.

**Requirements:** The disturbed area is greater than one acre triggering adherence to U-M Storm Water Permit Post Construction requirements—> <http://ehs.umich.edu/construction-projects/environmental-considerations/storm-water-management/>

U-M Storm Water Permit Requirements (based on site size and characteristics)	Constructed
<b>Minimum Treatment Volume Required:</b> 38,000 gallons (5,100 cubic feet) of runoff	111,000 gallons (14,800 cubic feet) of treatment and infiltration for the 100-year storm event
<b>Channel Protection Volume Required (no increase to runoff and peak rate through the 2-year storm):</b> Because there is an increase in runoff and peak flow due to the approximate 0.24-acre increase in impervious cover, 17,000 gallons (2,300 cubic feet) of infiltration is required.	

**Performance:** The project results in 85% reduction in storm water runoff volume and 48% reduction in peak flow for the 2-year, 24-hour design storm as compared to the pre-project condition. For the 100-year, 24-hour design storm, the system achieves a 55% reduction in storm water runoff volume and 9% reduction in peak flow.

**Benefits:** This system helps to remove volume and peak flow from City storm lines, provides water quality treatment, reduces flooding, and replenishes groundwater.



View of Ross School of Business Complex  
from south

