

Fall Protection GIS Project
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The state now requires that anyone needing to do work on a building roof must create a "Fall Protection Plan" before they are allowed to access the roof. This is to improve safety and to ensure that everyone accessing the roofs understands the known risks and has a plan in case something goes wrong. In some cases professionals from EH&S and the roofing trade who know these rules are able to write the plans. In other cases, people without roofing experience are asked to write these plans.

In addition to being able to identify and report on the roofs, we'd like to have a central storage place for the simplified roof drawings and the professionally written fall plans and make these available to individuals who need to work on the specific roofs. We need the system to create a written report that can be filed with the proper authorities. Ideally this could be accessed/created from a website or something that could be available from a workers cell phone.

Groupss with access to roofs on UW Campus

Campus Engineers
Sheet Metal Shop
Roofing Shop
EH&S
Plumbing Shop
Electrical Shop
Grounds Crew (new "green" roofs)
Capital Projects
HVAC Shop
Abatement Crews
Painter Shop
Glazier Shop
Mason Shop
Research Projects

We would like to create a graphical system that maps out the location of each roof, how to access the roof, and what fall protection is required to work on the roof. In addition we'd like to be able to show the condition of the roofs on a map, as well many other data elements such as the materials, structure, size, and structural elements contained on the roof.

Data from previous roof surveys is available.

There is a need to identify, categorize, measure, and display data about all the roofs on campus. There are approximately ??? “roofs” on campus. Some as large as ??? square feet and other as small as 6. They range in age from ??? years old to brand new. Some are flat, others severely pitched. Some are asphalt, concrete, others slate, and still others are “Green”.

Campus engineering, Space Planning, Facilities Maintenance and Capital Projects has struggled over the years to understand where these roofs are, how to access them, and what condition they are in. Some roofs are accessible via internal access, other need ladders, others need man lifts.

One relatively new twist is that anyone needing to do work must create a “Fall Protection Plan” before they are allowed to access the roof. In some cases, professionals from EH&S , and the roofing trade know these rules and how to write the reports. In other cases, people without roofing experience are asked to write these plans. In addition to being able to identify and report on the roofs, we’d like to have a central storage place for the professionally written fall plans and make these available to individuals who need to work on the specific roofs. Ideally this would be a website or something available from a workers cell phone.

Departments with access to roofs on UW Campus

- Campus Engineers
- Sheet Metal Shop
- Roofing Shop
- EH&S
- Plumbing Shop
- Electrical Shop
- Grounds Crew (new “green” roofs)
- Capital Projects
- HVAC Shop

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Data from previous roof surveys is available in MS Access format.