Fridley Maintenance Facility

4200 Marshall Ave N



Year Constructed: 2005 Square Footage: 32,859

The Fridley Maintenance Facility treats and distributes potable water to the city and additional communities. The facility is planned to be updated to an ultrafiltration plant in the near future.





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Fridley Maintenance Facility

Site Use

- Strategic space planning
- ▶ Open office and workshop
 - Allowed for an overall smaller building
 - » Therefore less materials were used for construction
 - · Ability to be flexible in interior design
 - · More efficient lighting schemes
 - · Shared work equipment
 - » Reduction in equipment needed

Energy Efficiency

- Day lighting
 - » Reduces need for excess lighting
 - » Easier on the eyes than unnatural lighting
 - · Minimal exterior lighting
 - · Passive solar strategies
 - Allows the sun to heat the building
 - » Reduces energy used by heaters
 - · Exceeded energy code by 30 percent

Water Efficiency

- ▶ 100 percent of storm water is managed on site
- ▶ Low flow washroom fixtures
 - · Automatic sink faucets, toilets, etc.

Materials and Resources

- ► Recycled/refurbished furnishings
- Durable finishes
 - Last longer
 - Separated and recycled construction waste
- ▶ Designed to unit measurement
 - Reduces material cutting and waste

Indoor Environment Quality

- Natural ventilation
- ▶ Low and no VOC paints and adhesives
 - · Do not release significant pollutants
 - Almost no smell when applied

Features

- ▶ Green roof
 - Roof that is partially or completely covered with vegetation and soil, or a growing medium, planted over a waterproofing membrane
 - » Increases roof life span
 - » Reduces amount of run-off water through absorption
- Smart Building
 - Computerized heating and cooling controls
- ▶ Native prairie landscaping
- ▶ Storm water management ponds
 - Keeps water from entering storm water sewers, rivers, lakes, etc.



The facility's living green roof drastically reduces water runoff and provides superior insulation for the building.