Every summer, Physical Plant teams complete additional work to ready the campus for another academic year. While this summer has included significant efforts to prepare and adjust procedures for COVID-19 mitigations, we have also continued the important work of maintaining the safe functioning of facilities and infrastructure. Over the past month, behind-the-scenes work has included floor care, deep cleaning, window washing, construction and renovation projects, painting and corrosion control, masonry repairs, roof repairs, major maintenance of utilities distribution systems, road and parking striping, pavement repairs, and building system preventive maintenance (see Page 2).

Maintaining and operating our facilities requires dedication, 24-hours per day, 365 days a year. Your Physical Plant staff is committed to understanding your requirements, to active stewardship, and to continuously learning about their responsibilities including facilities, property, and assets.

It is our pleasure to support you in accomplishing your research and education mission this year.

BREAKDOWNS AND FAILING FACILITY CONDITIONS

Here are a few examples of major equipment failures from August 2020, all of which demanded significant unplanned efforts.

Lowell Center Chiller (August 17) was non-operational due to a bearing failure. Designated as a facility that would be vital to the COVID-19 mitigation plans, a temporary chiller was secured and installed three days later. Plans for the repair are still in development.

- Age of this chiller: 33 Years
- Expected life of a chiller: 25 Years

Electrical Substation Switchgear Failure (August 26). A breaker malfunction resulted in damage to the substation and an outage for several buildings on east campus. Power has been temporarily rerouted to all affected facilities while repairs are planned and initiated. This also disrupted the Charter Street Heating & Cooling Plant and caused a temporary disruption to campus chilled water.

- Age of the breakers: 24 Years
- Expected service life: 20–30 Years

Linden Drive Electric Utility Damage (August 8). Utility project activities caused underground electric conduit and cable damage. The Electric Shop mitigated the immediate electrical hazard, and power was routed to other circuits ensuring no major power outages. The 1960s sub-standard conduit construction is being rectified and new cables are being installed in coordination with the general contractor.
SUMMER 2020 BY THE NUMBERS

SAFETY & LOGISTICS

1,000 BUCKETS of disinfectant wipes filled for instructional spaces
600 fume hoods tested
500 instructor safety kits distributed
500 hand sanitizer stands assembled, filled, and distributed for use
157 mail pickups for 27 locations unable to receive mail during lockdown

BUILDING EXTERIORS

288,686 SQ FT of asphalt replaced
27,700 tons of pavement crack filling
16,500 linear ft of exterior caulking
8,585 sq ft of masonry maintenance and repair

ROADWAYS, WALKWAYS, & PARKING

19,915 SQ FT of sidewalk replaced
18,480 ft of pavement striping/painting
3,189 campus transportation requests fulfilled
932 ft of curb replaced
600 miles of road swept
58 surface lots swept

OUTDOORS

40,000 ANNUAL PLANTS grown from seed or cutting
24,000 square feet of rose beds maintained
10,500 blooming flowers planted
9,000 sq ft of display beds maintained
580 perennials planted
337 shrubs planted

CAMPUS UTILITIES & MAINTENANCE

275,000 SQ FT of interior and exterior painting
4,400 linear ft of pipe insulated
400 floors stripped and waxed
390 pump overhauls
125 doors added to access control
100 doors replaced
1.06 million linear feet of data cable

12 acres of lawn over-seeded
9 planting beds designs installed
2 irrigation systems installed
86 trees tagged
85 acres of lawn mowed weekly
42 new trees planted
28 acres of lawn aerated

17 raccoons
13 rabbits
11 chipmunks
5 squirrels
1 skunk

47 humanely relocated creatures
SUMMER 2020 PROJECT STATUS

As the summer quickly ends, we are closing in on the complete of the last of the Summer 2020 projects.

More than $1.3M of work has been completed for these 21 projects that were identified as essential to the operations of the university.

See Page 4 for the list of completed projects.

Current Status Summary

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
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<tr>
<td>Estimating</td>
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<tr>
<td>Construction</td>
<td>3</td>
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<tr>
<td>Complete</td>
<td>18</td>
</tr>
<tr>
<td>Customer Withdrawn/Postponed</td>
<td>5</td>
</tr>
</tbody>
</table>

SUMMER 2020 PROJECT STATUS

Projects generally follow a series of standard milestones as we work with the customer to clarify scope, design, and the details; and conduct detailed work planning, order materials, and execute construction.

Phased Progress

- Customer Request Initiated
- Design Service Agreement
- Design Review/Approval
- Construction Service Agreement
- Completion

**05451905**
WI Public Media
Vilas Hall

Access Control and Renovation

$141K

**PRJ-20-001873**
College of Engineering
Eng Research Bldg

Incoming PI ROOM 710 & 734

$184K

**PRJ-20-001816**
Integrative Biology
Birge

Enable New Faculty Space

Awaiting long-lead countertop material. Estimated completion: September 18.
$110K

SUMMER 2021 PLANNING...READY, SET, GO!

Now is the time to start your planning for next summer's construction effort. The plan is to continue with a refinement of this year’s process, selecting projects based on a collective effort that included representatives from SMPH, L&S, CALS, VCRGE, and COE (with additional representatives based on the quantity of requests).

This ad-hoc team will collaboratively prioritize projects and identify the ones that would have the greatest impact on the university’s mission and would benefit from reduced summertime campus occupancy.

Planned Milestones for Summer 2021 Project Planning

- **December 1:** Customer requests due to Physical Plant Customer Service
- **January 12:** First prioritization discussion
- **January 15:** Second prioritization discussion (Share draft with S/C/D Facility Managers)
- **January 21:** Third prioritization discussion (Share draft with Deans and Directors)
- **Mid-February:** Publish confirmed project list
## SUMMER 2020 PROJECTS COMPLETED

<table>
<thead>
<tr>
<th>College of Engineering</th>
<th>Engineering Hall</th>
<th>Lab for Incoming PI (Room 2111)</th>
<th>$165K</th>
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<tbody>
<tr>
<td></td>
<td>Engineering Hall</td>
<td>Modernize Undergrad Instructional Lab (Room 1438)</td>
<td>$118K</td>
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<tr>
<td></td>
<td>Engineering Hall</td>
<td>Increase Door Width (Room B550)</td>
<td>$18K</td>
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<tr>
<td>School of Music</td>
<td>Humanities Hall</td>
<td>Instructional Laboratory Modernization (ILM) (Room 2451)</td>
<td>$40K</td>
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<tr>
<td>General Assignment Classrooms</td>
<td>Grainger Hall</td>
<td>Classroom Modernization (Room 1190, 1280, 2170, 2270)</td>
<td>$28K</td>
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<tr>
<td></td>
<td>Grainger Hall</td>
<td>Classroom Modernization (Room 1170, 1175)</td>
<td>$18K</td>
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<tr>
<td></td>
<td>Humanities</td>
<td>Classroom Modernization (Room 1641, 1651)</td>
<td>$17K</td>
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<tr>
<td></td>
<td>Van Hise Hall</td>
<td>Classroom Modernization (Room 582, 586, 590, 595, 599)</td>
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<td>Van Vleck Hall</td>
<td>Classroom Modernization (Room B102)</td>
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<tr>
<td>College of Letters &amp; Science</td>
<td>Service Memorial Institute</td>
<td>Instructional Laboratory Modernization (ILM) (Room 133)</td>
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<td>Noland Hall</td>
<td>Instructional Laboratory Modernization (ILM) (Room 215, 223/A, 226, 267, 567, 577)</td>
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<td>Weeks Hall</td>
<td>Instructional Laboratory Modernization (ILM) (Room AB20)</td>
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<td>Weeks Hall</td>
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<td>Birge Hall</td>
<td>New Faculty Space (Room 446)</td>
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<td>Social Sciences</td>
<td>Instructional Laboratory Modernization (ILM) (Room 5218)</td>
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<td>Helen C. White</td>
<td>Instructional Laboratory Modernization (ILM) (Room 5185)</td>
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<td>School of Veterinary Medicine</td>
<td>Veterinary Medicine</td>
<td>Upgrade Lecture Halls (Room 2530, 2360)</td>
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<tr>
<td>Wisconsin Collaboratory for Advanced Learning (WiSCeL)</td>
<td>Wendt Commons</td>
<td>Upgrade Data Cables for Advanced AV Capability</td>
<td>$13K</td>
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</table>
ADDITIONAL PROJECTS COMPLETED DURING AUGUST 2020

Eight additional projects (worth $358K) reached substantial completion over the past month.

<table>
<thead>
<tr>
<th>Project Number</th>
<th>Building</th>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>561804</td>
<td>Ingraham Hall</td>
<td>Renovate Room</td>
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<tr>
<td>PRJ-20-001765</td>
<td>Law Building</td>
<td>Remodel Office</td>
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<tr>
<td>PRJ-20-001880</td>
<td>Helen C. White Hall</td>
<td>Paint &amp; Carpet</td>
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<tr>
<td>181804</td>
<td>Helen C. White Hall</td>
<td>Sound Attenuation</td>
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<td>4821810</td>
<td>Van Hise Hall</td>
<td>Remodel Studio</td>
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<tr>
<td>511802</td>
<td>South Hall</td>
<td>AV Upgrades</td>
<td>$20K</td>
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<tr>
<td>5261801</td>
<td>Primate Center</td>
<td>Fume Hoods &amp; Biosafety Cabinets</td>
<td>$70K</td>
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<tr>
<td>PRJ-20-001447</td>
<td>Weeks Hall</td>
<td>Pump Relocation</td>
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</table>

Total Approved Construction Service Agreement (Final Amount TBD) $358K

WATER QUALITY TESTING AND FLUSHING

The Physical Plant teamed up with Environment, Health & Safety (EHS) to proactively address water quality during the limited occupancy on campus this summer. Reduced water movement in buildings can increase the risk of bacterial and other water quality issues. A Water Management Program Team was formed to develop strategies to ensure safe water across campus.

These included:

- Weekly operation of all plumbing fixtures in all facilities
- Enhanced flushing of higher-risk buildings
- Flushing of the water distribution system
- Testing for Free Chlorine Residual

Nearly 800 Free Chlorine Residual tests in 42 buildings have been conducted since the end of May. These 42 buildings were selected for testing based on CDC guidelines.

Free Chlorine Residual testing was used to assess the effectiveness of flushing efforts as well as serve as the initial test to determine if enhanced flushing or additional testing is needed. One hundred percent of these tests were negative, indicating safe water.

The team will continue to test and address any other water quality issues as occupancy increases. They will also review new research related to water quality and COVID-19 and develop appropriate strategies.