



We appreciate your support and patience as many of our teams have been extraordinarily busy working to support the reopening of the UW-Madison campus for the fall semester.

July was an exceptionally intense month for the Services Department. Personnel have been assembling and distributing hand sanitizer stations, filling disinfectant bottles, and making plans to support enhanced cleaning and disinfection of workspaces...all while continuing to do their regular work that keeps buildings and grounds clean and healthy. Our campus custodians are essential to our mitigation strategy.

When you see one of these valued team members, let them know you appreciate their hard work!



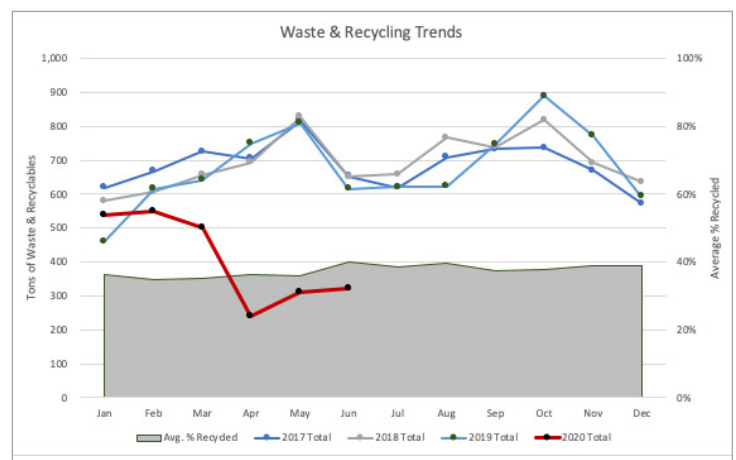
Because the university can only buy disinfectant in bulk, custodians are filling more than 6,000 individual, reusable bottles of disinfectant for use in classrooms, work units, and elsewhere on campus.

SUCCESSSES OF RECYCLING

The Waste & Recycling service area is a driving force behind UW-Madison’s recycling efforts. They pick up and transport more than eight thousand tons of waste and recyclable materials annually. Monthly loads of discarded material peaked around eight hundred tons in May as students departed and in October as a delayed activity from move-in activities. The dramatic impact of COVID-19 is evident in the Spring of 2020 when the amount of materials collected dropped by two-thirds.

In an average year, nearly 40 percent of all materials collected are diverted from landfills through recycling or composting. This exceeds the national waste diversion average by six percent, has a positive impact on the environment, and benefits UW-Madison economically. UW-Madison diverts approximately 3,100 tons of recyclables from landfills annually, including:

- 445 tons of paper
- 735 tons of metal
- 615 tons of food and yard compost



This equates to a greenhouse gas emissions reduction of 5,032 MTCO₂E or the equivalent of removing the emissions from 566,216 gallons of gasoline.

Waste & Recycling may not seem like a glamorous job, but it is vital to protecting the environment and furthering the university’s sustainability initiatives.

Are your discarded resources going to the right place?

UNEXPECTED: BREAKDOWNS

Technicians responded to 126 emergency and service requests during July 2020 and completed 433 urgent service requests. Notable events included:

- 30 elevator malfunctions
- 44 temperature/HVAC emergencies
- 18 structural water leaks

ACTIVE FACILITIES-RELATED INSURANCE CLAIMS (LOSS EXCEEDING \$20K)

Since first Physical Plant Operations report (published in early June), we have completed repairs to the Dairy Barn from steam damage on April 26 and damage to Witte Hall from vehicle damage on May 28.

There have been 11 additional claims logged: 6 for water or flood damage, 1 for mold growth, and 4 for property damage (including those from protests) for a total estimated cost of \$266K.

Events estimated to be less than \$20K are not shown, but include a fire at Social Science (3/24), vandalism at Hamel Music Center (5/11), two driver error vehicle crashes (light pole near Marsh Drive on 5/21 and the Witte Hall retaining wall on 5/28), and flooding at Nancy Nicholas Hall (7/6).

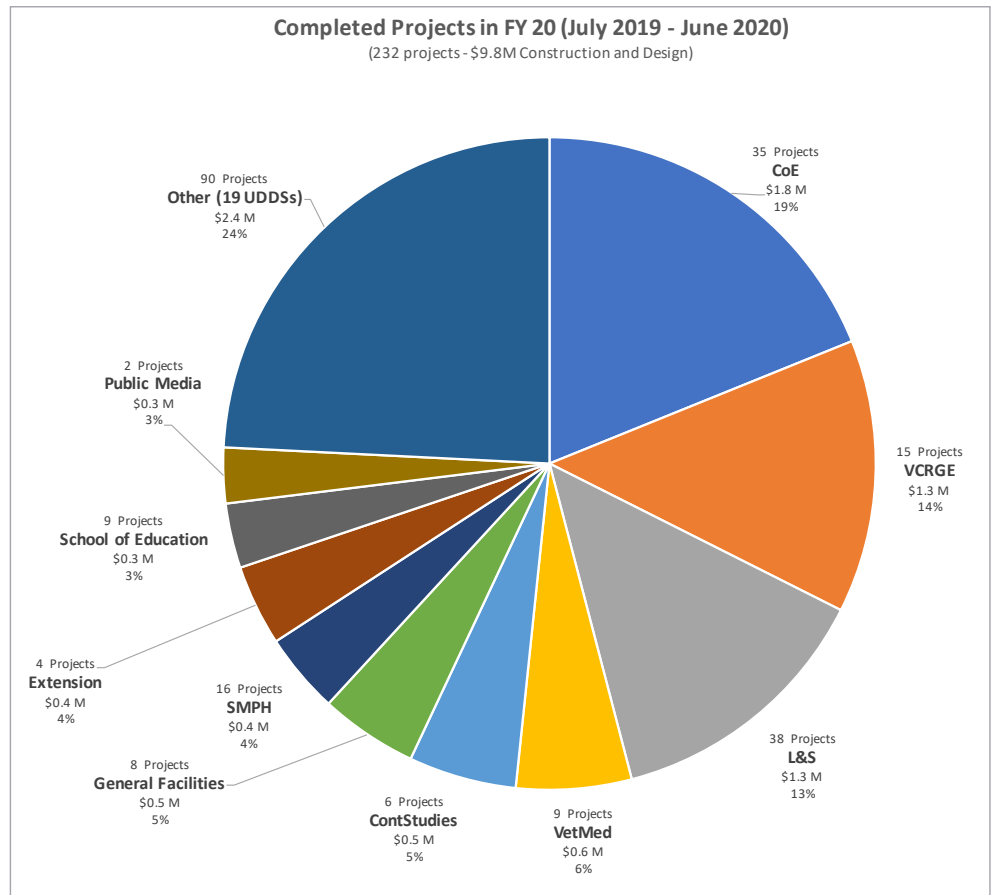
Event Date	Description	Estimated Facilities Cost	Facilities Repair Complete	Estimated Completion Timeline
Feb 5	Water main break caused flooding in the utility tunnels; extensive flooding in the lower level of ECB; steam damage to various other engineering buildings.	\$2.2M	85%	September
May 3	Flooding caused by inoperable floor drain due to build-up of lime resulted in damage to spaces in SMI 5th, 4th, and 3rd floors.	\$20K	25%	August
May 30	Property damage caused by vandals during protests. Graffiti and broken windows on multiple facilities, damaged vehicles, broken bus shelters, vandalized building signage and plaques.	\$20k + vehicle damage	65%	August
June 10	Flooding caused by limed sanitary line from water cooled air conditioner. Water backed up through sink in room 188 and down into room 88 Science Hall.	\$30k	75%	August
July 1	Mold growth at 1410 Engineering Drive due to lack of steam reheat as a result of ongoing tunnel repairs.	\$35k	80%	August
July 1	Flooding caused by clogged drain in 4th floor mechanical room of Science Hall; rooms 426, 310, 310A & 310B affected.	\$40k	50%	September
July 3	Flooding caused by plug in the drain stack when bathroom faucet left running in 4th floor of Lowell Hall. Water flowed down to B1 level.	\$40k	50%	September
July 9	Rainstorm flooding (multiple locations) Vilas Hall caused by deteriorated plaza deck drain. Bock labs basement caused by parking lot storm drain being overwhelmed; water in B1 & B2 levels.	\$40k	65%	September
July 22	Water and vapor damage caused by broken temporary condensate line in mechanical rooms B1117 & B1117A Kellner Hall. Related February 5 event flooding engineering campus; infrastructure servicing repairs to Camp Randall Stadium experienced a failure.	\$40k	5%	October

FY20 PROJECT DELIVERY REVIEW—ACCELERATED DELIVERY AND INCREASED OUTPUT

Over the past eighteen months, Physical Plant has focused on project execution: delivering projects faster, smarter, and more economically with better communication and collaboration.

We realigned teams and responsibilities, created and refined processes, and implemented tools to capture and track metrics.

As a result, in FY20, we completed 232 projects valued at \$9.8M; a 39 percent growth in construction value. In addition, we completed and cleared a significant number of older projects from the backlog (42 of the 232 projects were two years old or older), resulting in a 42 percent reduction to the project backlog.



Key Outcomes

- **Opportunities identified:** Forty-one projects (ten percent of the design effort) were cancelled before construction resulting in significant inefficiency (only a few were related to COVID-19).
- **Significant reduction in project duration:** Eighty-three percent of the construction efforts were completed within one year and more than 40 percent in less than six months.
- **Increased output:** A 103 percent increase in total design and work-in-place from FY18 (\$3.4M) to FY19 (\$7M) and another 33 percent increase through FY20 (\$9.8M).
- **Sustained momentum:** More than 40 of projects in the active queue are already in construction in FY21.
- **Increased accountability:** Summer projects will be completed on or ahead of schedule.

Congratulations to the combined efforts of the Architects & Engineers, Facilities Specialists, Work Coordinators, and all the Skilled Trades that made this happen! We are eager to leverage our new foundation as we continue to build project delivery excellence.

SUMMER 2020 PROJECT STATUS

As we head into the final month of summer work, approximately 80 percent or \$1.2M or the \$1.5M of critical summer work has been completed as of the end of July. Three projects have been canceled/withdrawn, leaving 23 projects.

This year, projects were selected based on a collective effort that included representatives from SMPH, L&S, CALS, VCGRE, COE, and the School of Education. This ad-hoc team collaboratively prioritized projects and identified the ones that would have the greatest impact on the university's mission and would benefit from reduced summertime campus occupancy.

Current Status Summary

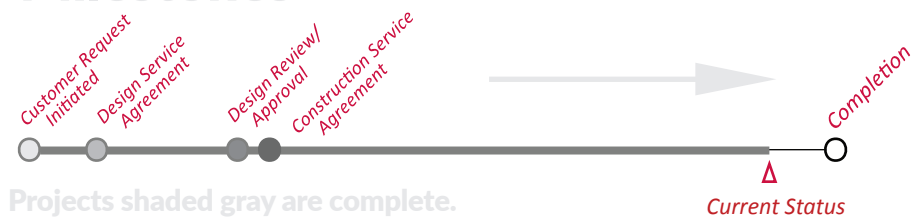
Design	0
Estimating	0
Construction	13
Complete	10
Withdrawn	3

KEY

Project Milestones / Progress

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.

Milestones

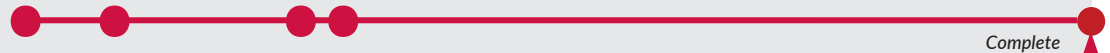


PRJ-20-001087

Lab for Incoming PI

\$165K

Chemical Engineering
Engineering Hall



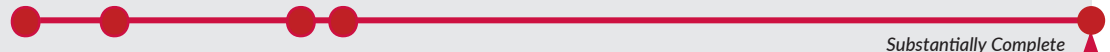
Complete

PRJ-20-001082

Modernize Undergrad Instructional Lab

\$118K

Elec & Computer Eng
Engineering Hall



Substantially Complete

05451905

Access Control and Renovation

\$141K

WI Public Media
Vilas Hall



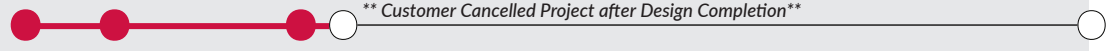
Construction: 85%

05451811

Labs and Office Renovation

\$86K

Comm Arts
Vilas Hall



** Customer Cancelled Project after Design Completion**

PRJ-20-001248

Increase Door Width

\$18K

Electrical Engineering
Engineering Hall



Complete

PRJ-20-001873

Incoming PI ROOM 710 & 734

\$184K


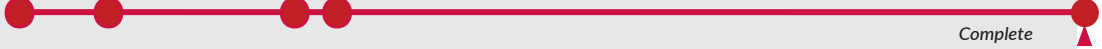

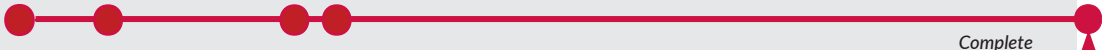
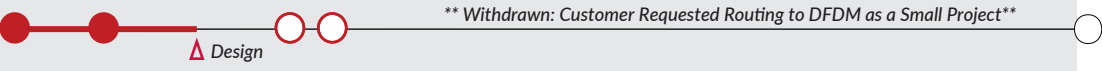
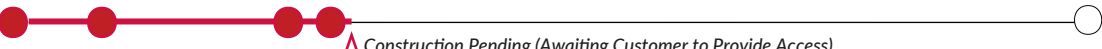


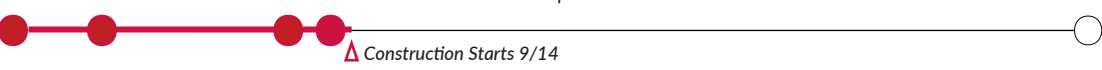



College of
Engineering
Eng Research Bldg



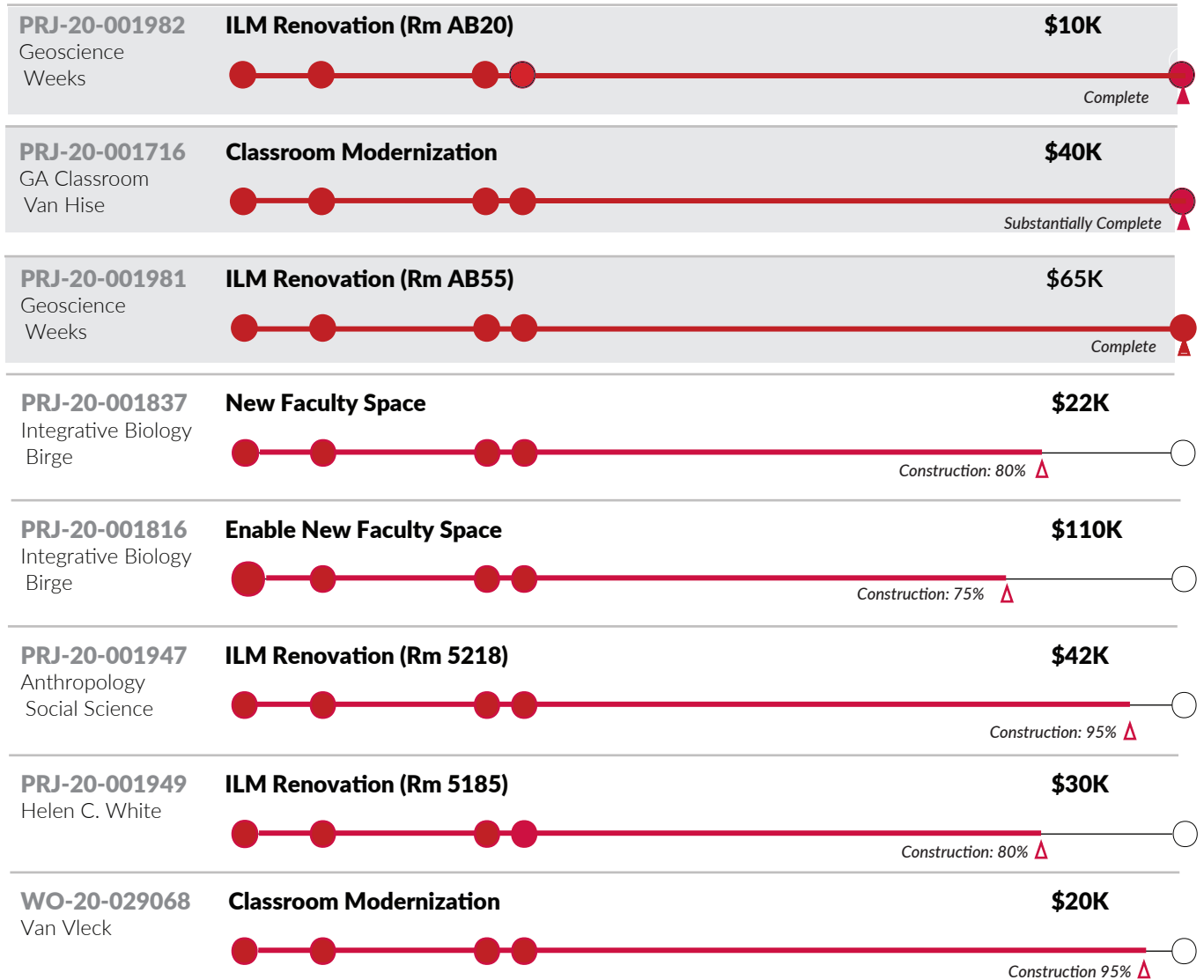
Fume Hoods: Special Order/Long Lead Time

Construction 50%

SUMMER 2020 PROJECT STATUS (CONTINUED)

04691803 School of Music Humanities	Instructional Laboratory Modernization (ILM) Renovation (Room 2451)	\$40K		Construction: 55%
PRJ-20-001857 GA Classroom Grainger	Classroom Modernization	\$28K		Complete
PRJ-20-001758 GA Classroom Humanities	Classroom Modernization	\$17K		Substantially Complete
01401807 GA Classroom Grainger	Classroom Modernization	\$18K		Complete
PRJ-20-001906 School of Vet Med Vet Med	New Radiology Machine Room 1391	\$194K		** Withdrawn: Customer Requested Routing to DFDM as a Small Project** Design
WO-20-043517 College of Engineering Eng Research Bldg	Concrete Platform Installation for Heavy Equipment in Lab B142	\$3K		Construction Pending (Awaiting Customer to Provide Access)
WO-20-027168 College of Engineering Engineering Centers	Building Lab Vacuum System Repair	\$20K		Withdrawn: Department Funding Issue
WO-20-036016 WISCEL Wendt Commons	Upgrade Data Cables for Enhanced AV Capability	\$13K		Complete
PRJ-20-001940 Medical Physics WIMR	New Radiation Machine	\$62K		Customer-caused delay; machine installation will not be within summer time - Nov. completion Construction Starts 9/14
PRJ-20-001893 School of Vet Med Vet Med	Upgrade Two Lecture Halls	\$150K		Construction: 65%
PRJ-20-001946 Statistics Svc Mem Inst	ILM Renovation (Rm 133)	\$55K		Construction: 90%
PRJ-20-001950 Interactive Biology Noland	ILM Renovation (Six Rooms on Second Floor)	\$123K		Construction: 95%

SUMMER 2020 PROJECT STATUS (CONTINUED)



ADDITIONAL PROJECTS COMPLETED DURING JULY 2020

Six additional projects (worth \$125K) reached substantial completion over the past month.

Project Number	Building	Description	Value
PRJ-20-001325	Fleet & Service Garage	Build Wire Cage/Fence	\$28K
00551901	Chamberlin Hall	Install Safety Earth Ground Rod	\$14K
04811903	Engineering Centers	Replace Vertical Cable at Stairs	\$12K
PRJ-20-002062	McArdle	COVID-19 Testing Access Control	\$46K
PRJ-20-001797	Mechanical Engineering	Install 480V Circuit	\$25K
Total Approved Construction Service Agreement (Final Amount TBD)			\$125K

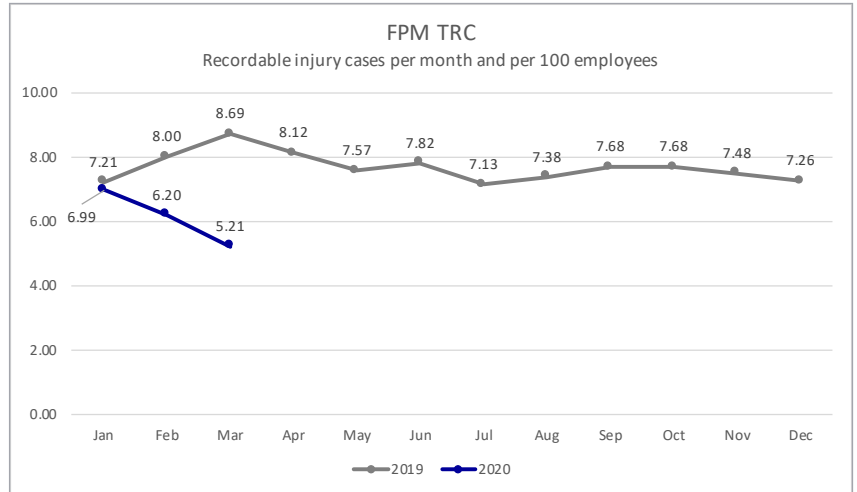
INJURY REDUCTION THROUGH EMPLOYEE PARTICIPATION AND TREND ANALYSIS

Based on industry best practices, the Physical Plant safety program strives to develop and foster a culture of safety in which every employee helps to ensure the safety of others and themselves. This program includes three collaborative groups that work to promote effective worksite-based safety and health:

- **Safety Review Group** reviews, discusses, and develops corrective guidance for injury incidents.
- **Safe Tactics Group** manages the program compliance and continuance.
- **Safe Practices Group** creates and sustains the Culture of Safety, originating from and centered on the employee experience.

In addition, we have introduced charts and metrics which detail injuries experienced at the department, shop, supervisor, etc. levels, highlighting improvement opportunities for injury reduction through safe practice implementation, supplementary training, and compliance guidance. These metrics are shared with the safety groups and subject matter experts are assigned to investigate and recommend improvements in order to eliminate re-occurrences.

Our emphasis on creating a culture of safety has proven effective. Recordable injuries in 2020 have declined from 2019 levels even when adjusted for pandemic-related furloughs and job-sharing.



Facilities Planning & Management

UNIVERSITY OF WISCONSIN-MADISON