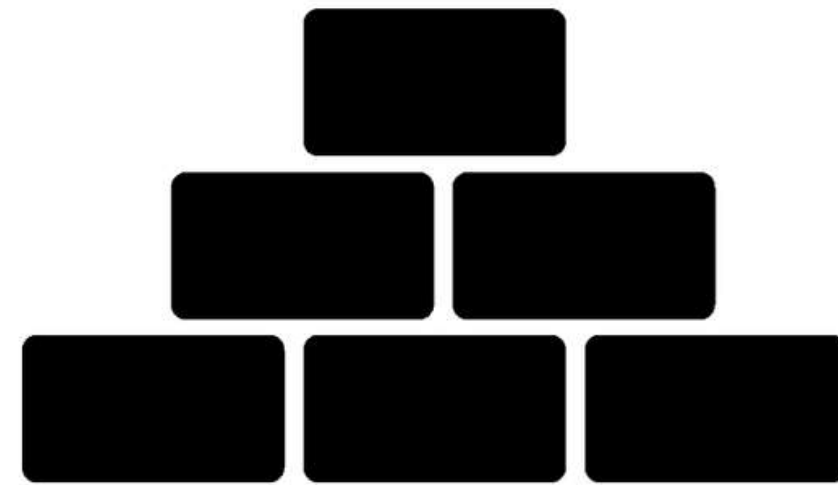


Annual Report

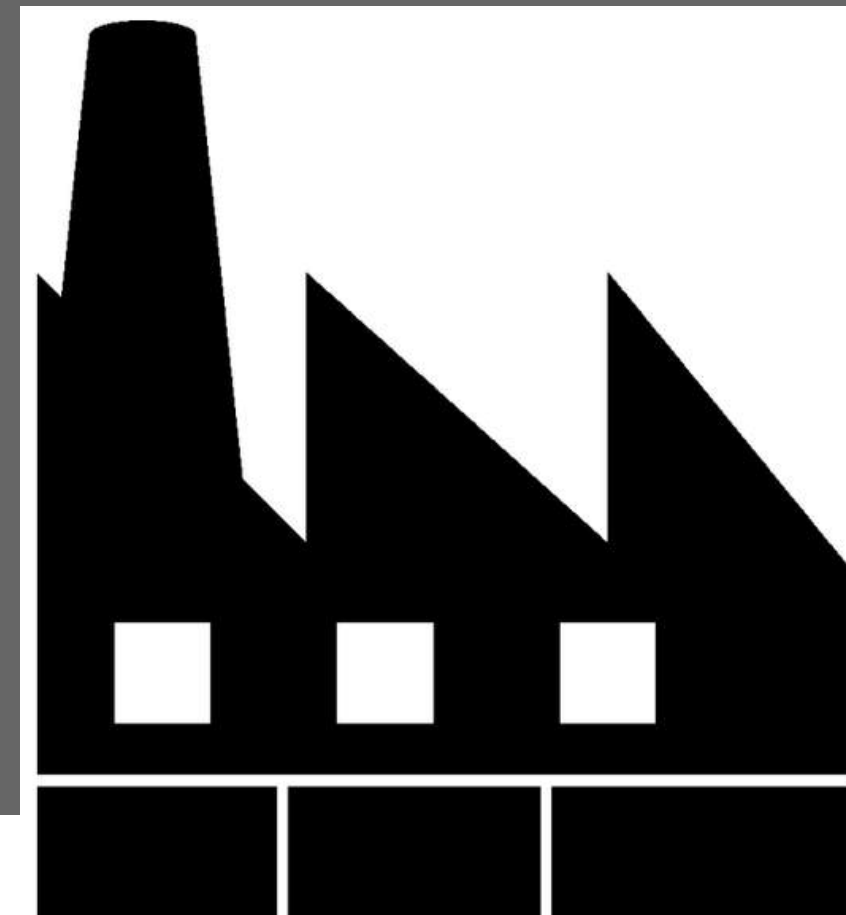
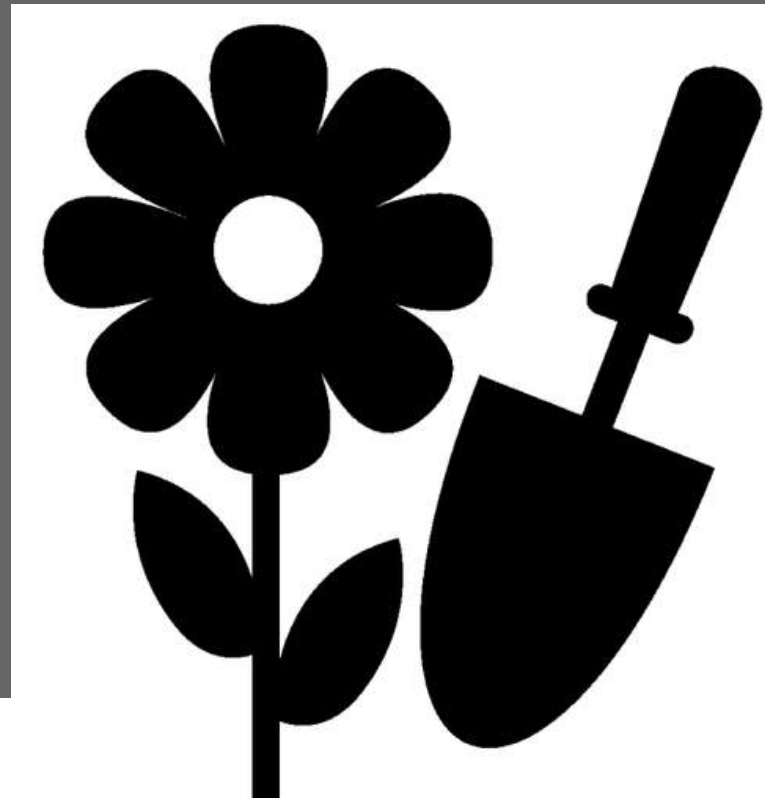
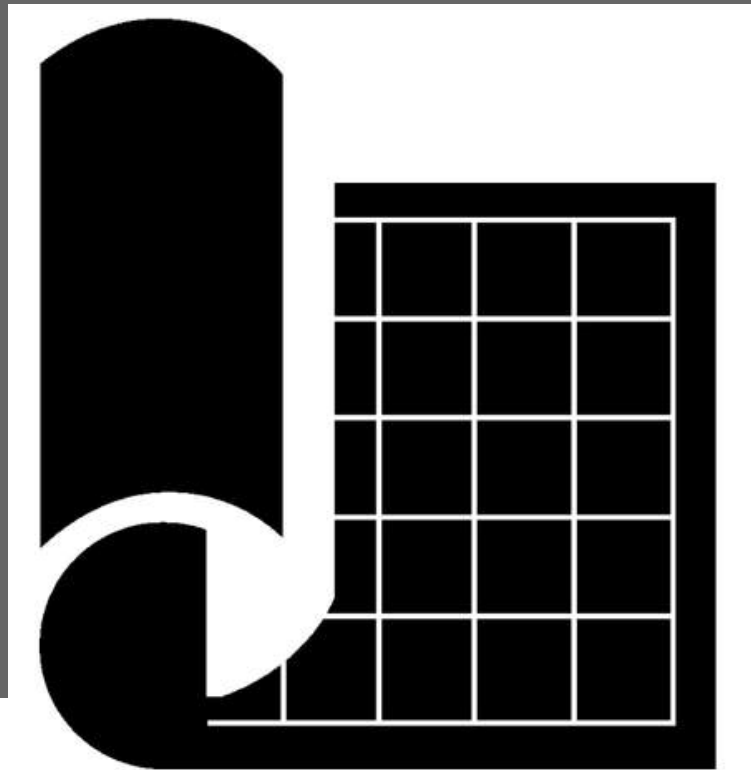
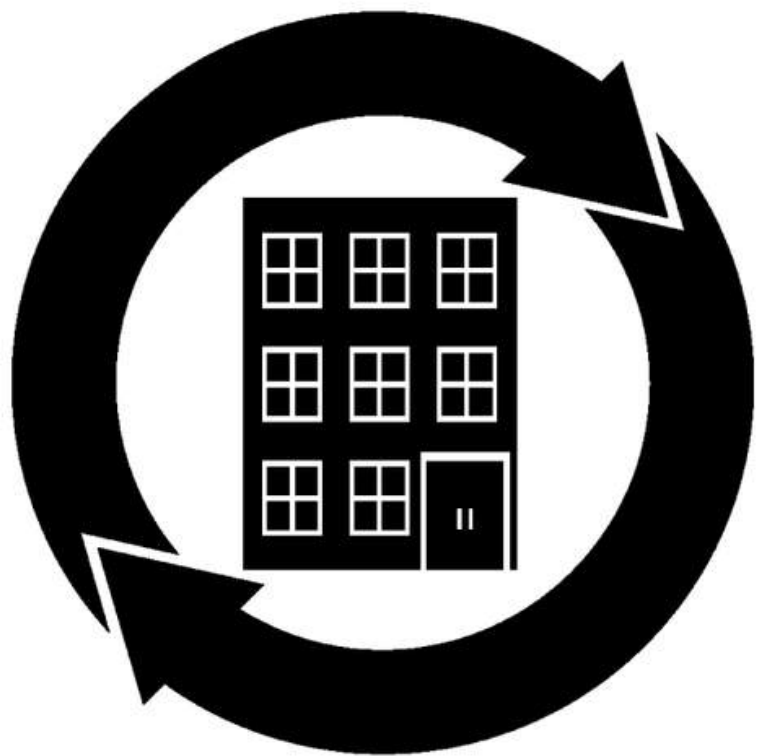
Duke

FACILITIES MANAGEMENT

2020-2021



24 / 7 / 365



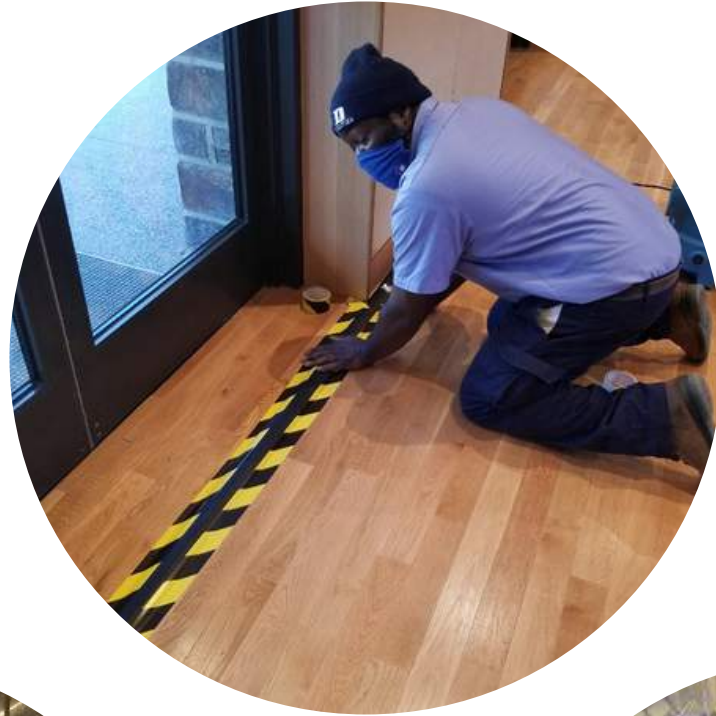


John Noonan, VP for Facilities

Different times

New challenges

Same mission



Duke is the size of a small city

2020
Duke

Undergraduate & Graduate Students 15,551

Faculty 3,962

Staff 42,479

+

+

=

61,992*

*https://facts.duke.edu/wp-content/uploads/sites/31/2020/01/duke_at_glance.pdf



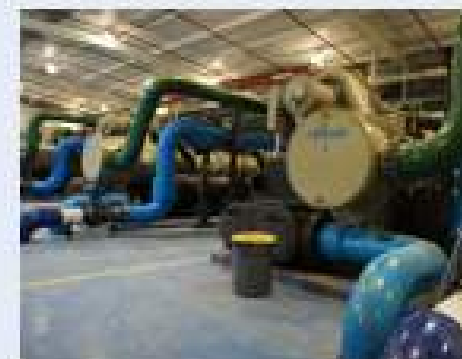
Stewardship of Duke's main campus includes

Buildings



- 20M gross square feet
- 325 buildings

Utilities



- Chilled Water & Steam Plants
- Electrical Substations
- Water/Sewer/Storm
- 200+ miles of distribution

Landscape & Fields



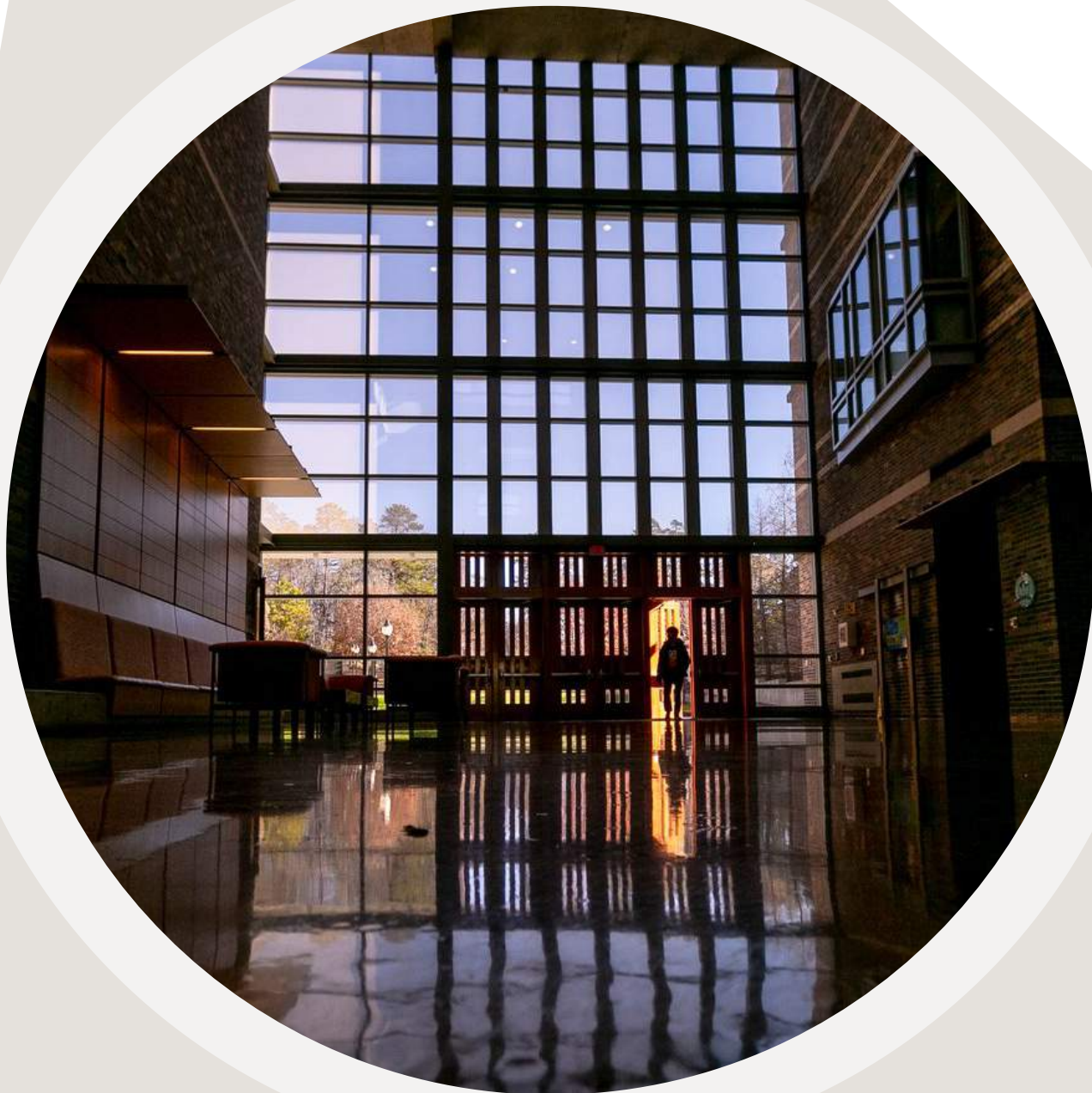
- 1,300-acre campus
- 567 acres maintained
- Turf & fields
- Trees & plants

Hardscape



- 12 miles of roads
- 44 miles of sidewalks
- 100 ± acres of parking

When many
in the Duke community
were away from Duke



And then returned to campus



And
for
those
who
never
left



Duke Utilities



**Ton-Hours of
Chilled Water**

151,662,115

**Kilowatt-Hours
of Electricity**

439,401,467

**Pounds of
Steam**

1,364,000,134

**Gallons of Potable
Water**

369,853,704



SAFETY



RELIABILITY

Duke

FACILITIES MANAGEMENT

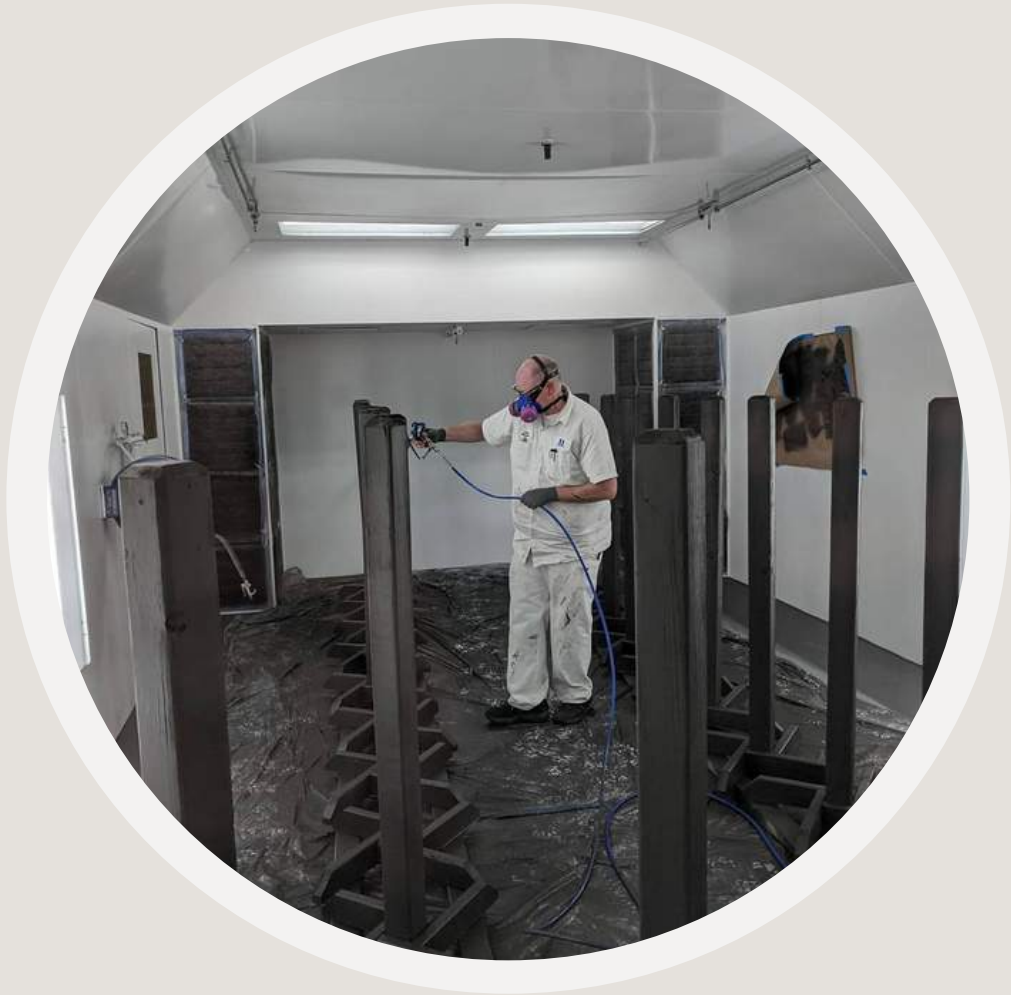


RESILIENCY

Duke

FACILITIES MANAGEMENT

Duke United



**Hand Sanitizer Stations
Built & Distributed 244**

**Gallons of Hand
Sanitizer Ordered 2,052**

Duke United

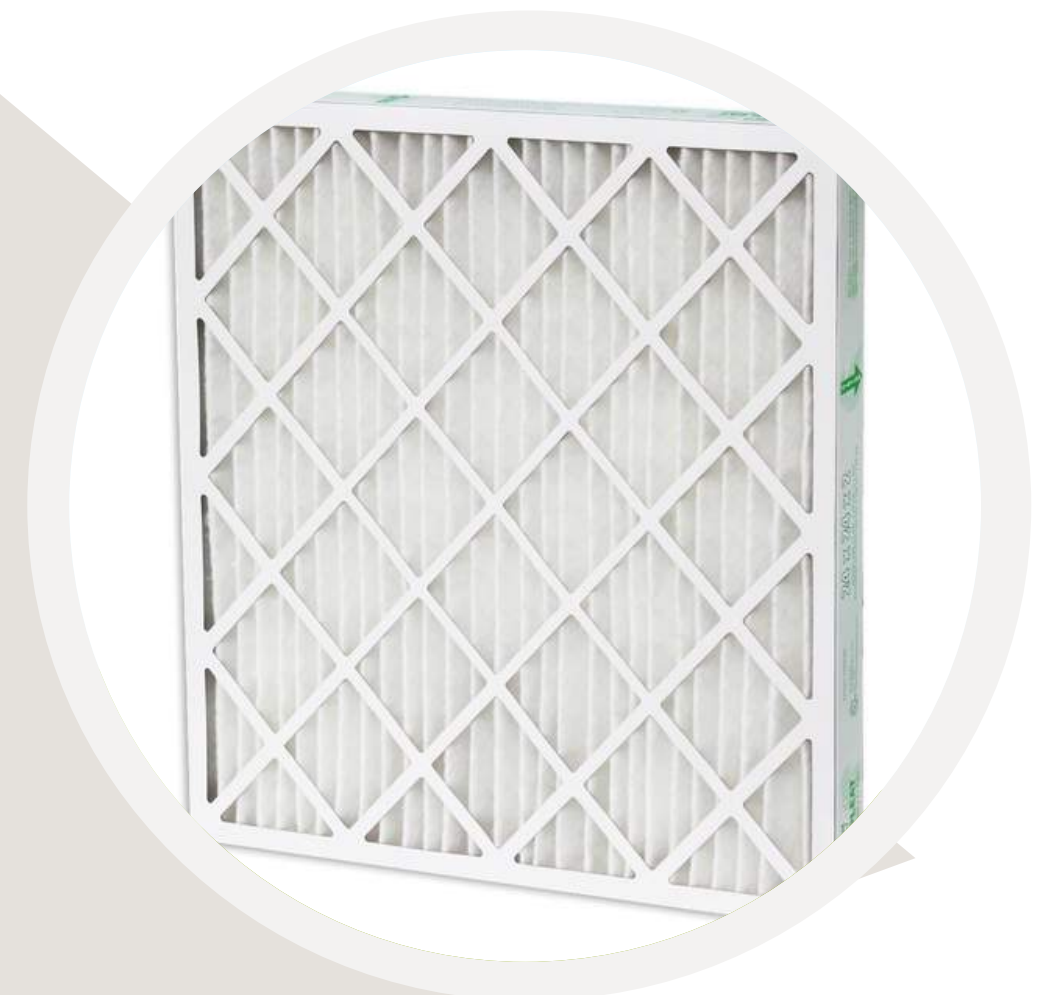


**Feet of Elastic Moved
for Face Shields**
90,000

**Face Shields
Transported**
70,000

**Classroom
Caddies Installed**
205

Duke United



**New Electrostatic
Sprayers**
20

**Hours Flushing Building
Water Before Occupancy**
350

**Filters Upgraded to
MERV 13**
>1,000

Duke United



**Signs Posted, Removed
& Reposted**
1,500

**Distancing Decals
Distributed**
23,249

**Sandwich Boards
Placed**
100

Duke United



**Tents Ordered for
Duke's Campus**

41



**Table & Chair Sets
Distributed on Campus**

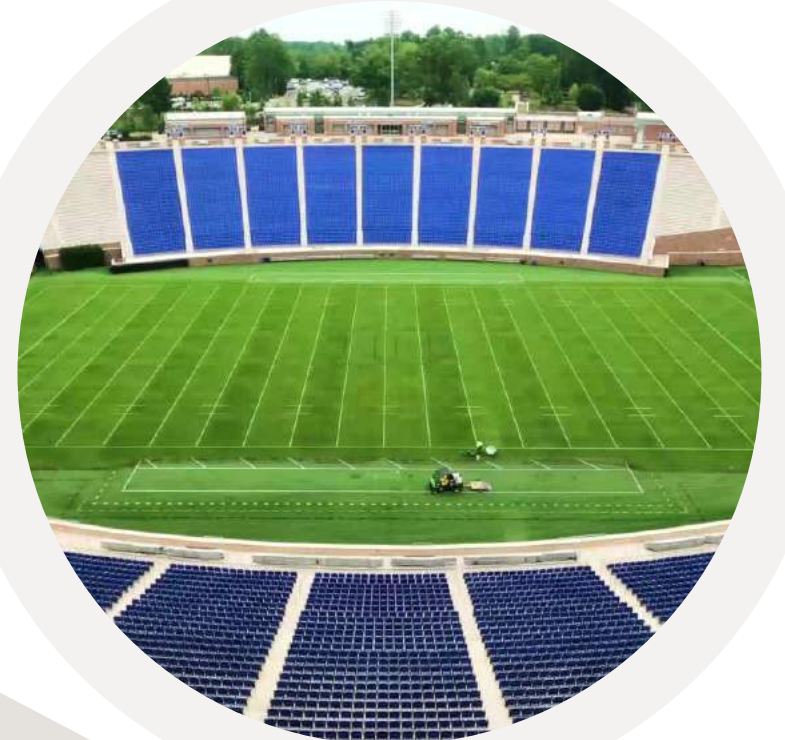
90



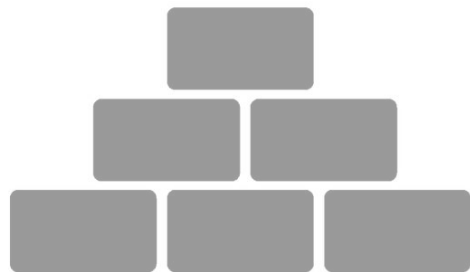
**Adirondack chairs
Assembled & Distributed**

337

There
are
always
projects
to
be
done



Completed Capital Projects



**Chilled Water
Plant #3**
July 2020



**Wilkinson Engineering
Building**
November 2020

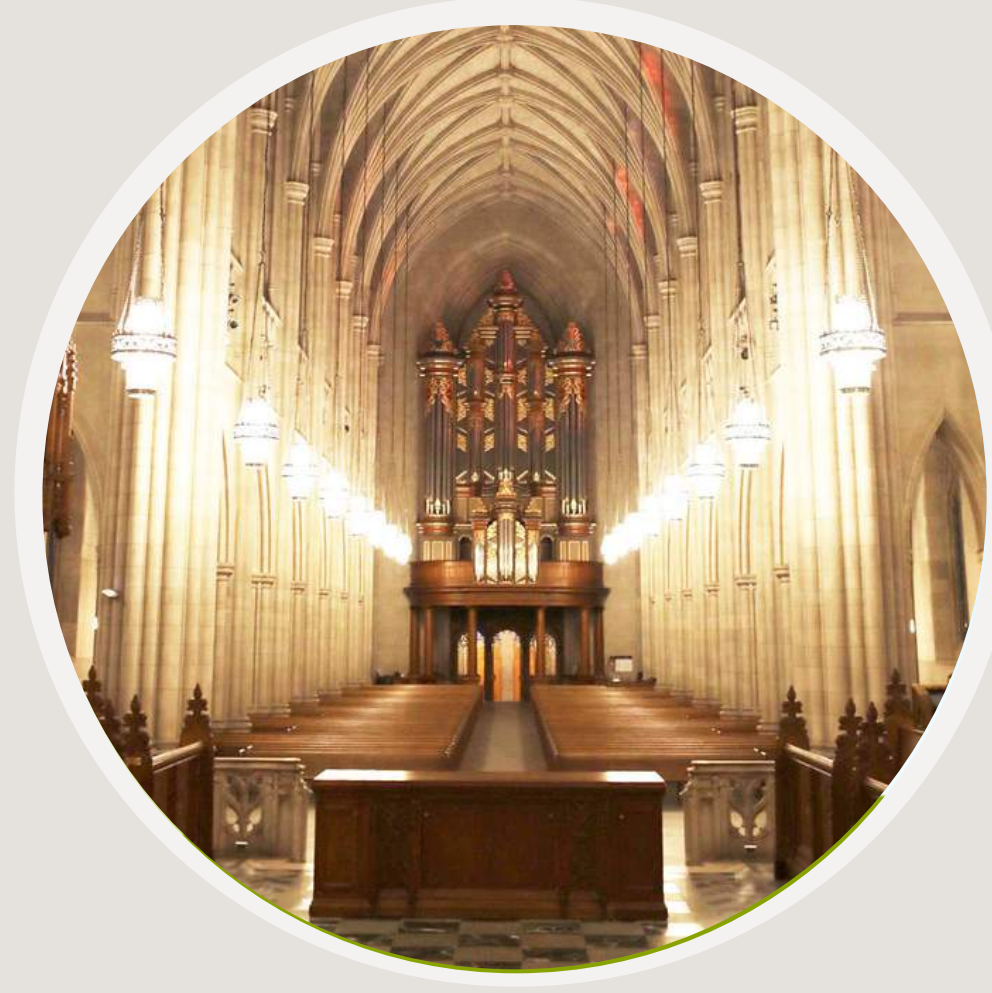


**Duke University
Marine Lab Dock**
November 2020

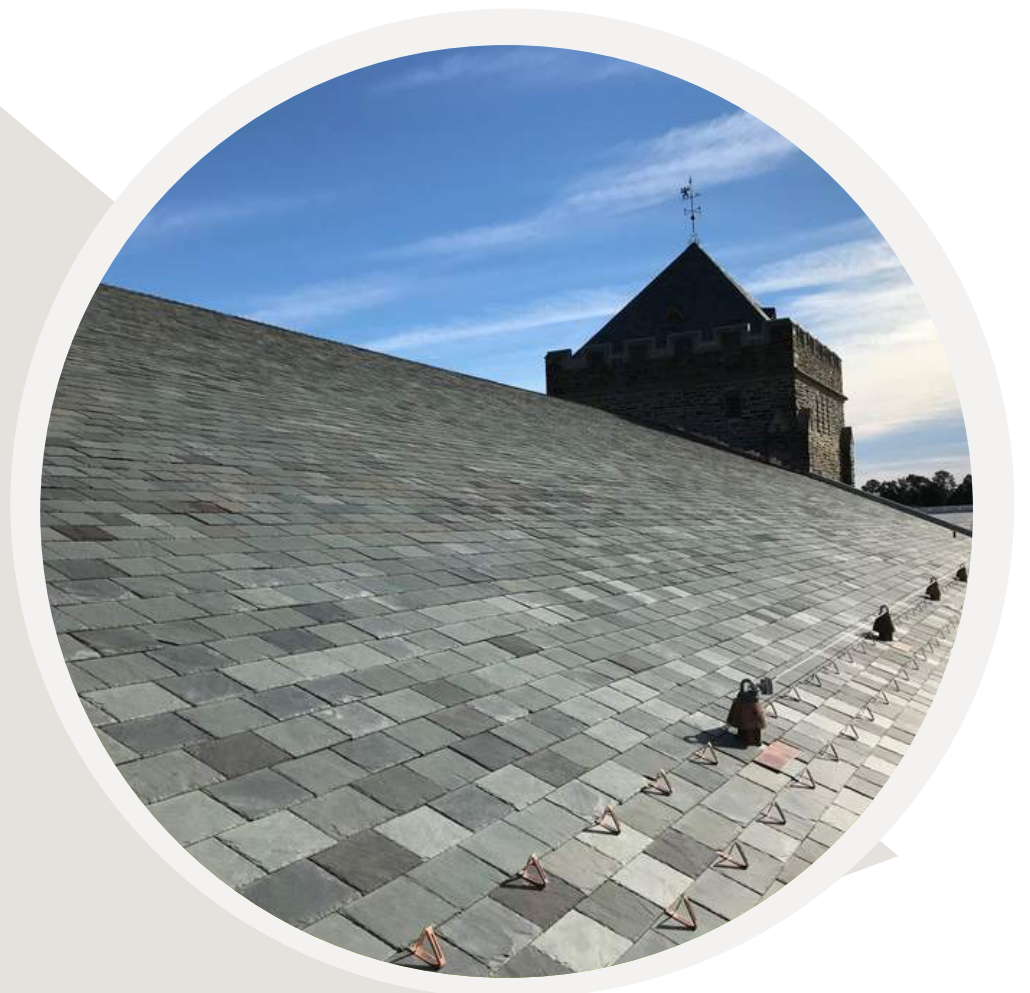
Completed Renewal Projects



**Gothic Door
Restoration**
August 2020

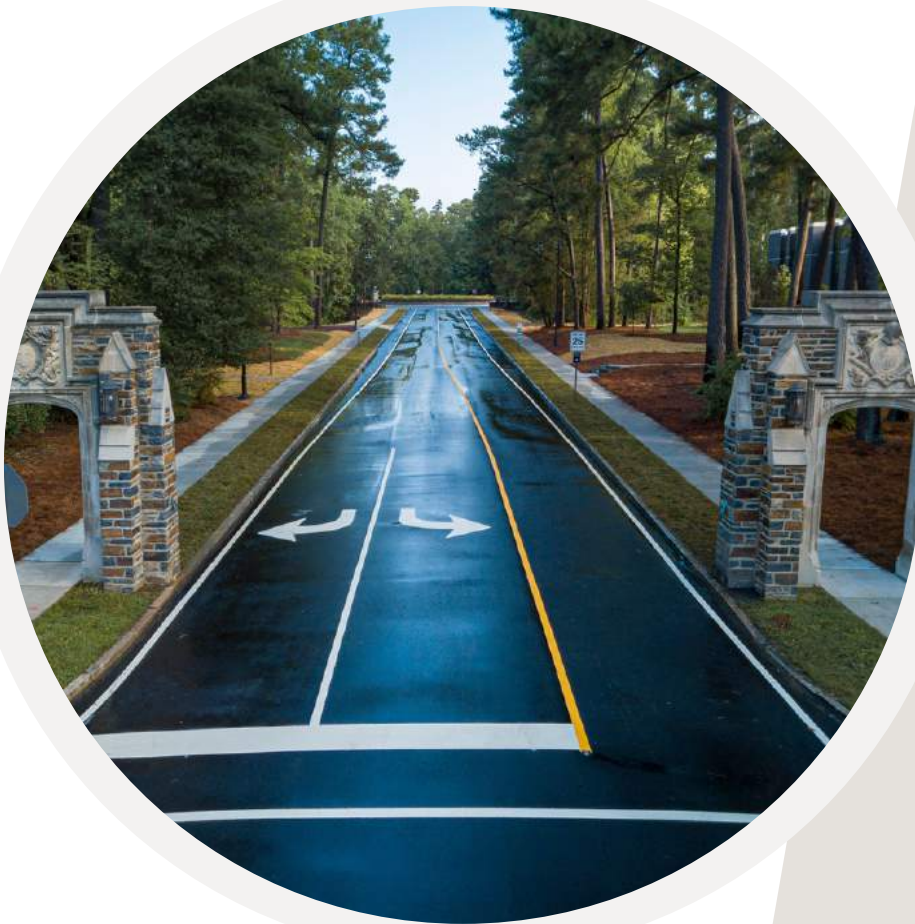


**Duke Chapel
Restoration**
January 2021



**Card Gym Roof
Replacement**
January 2021

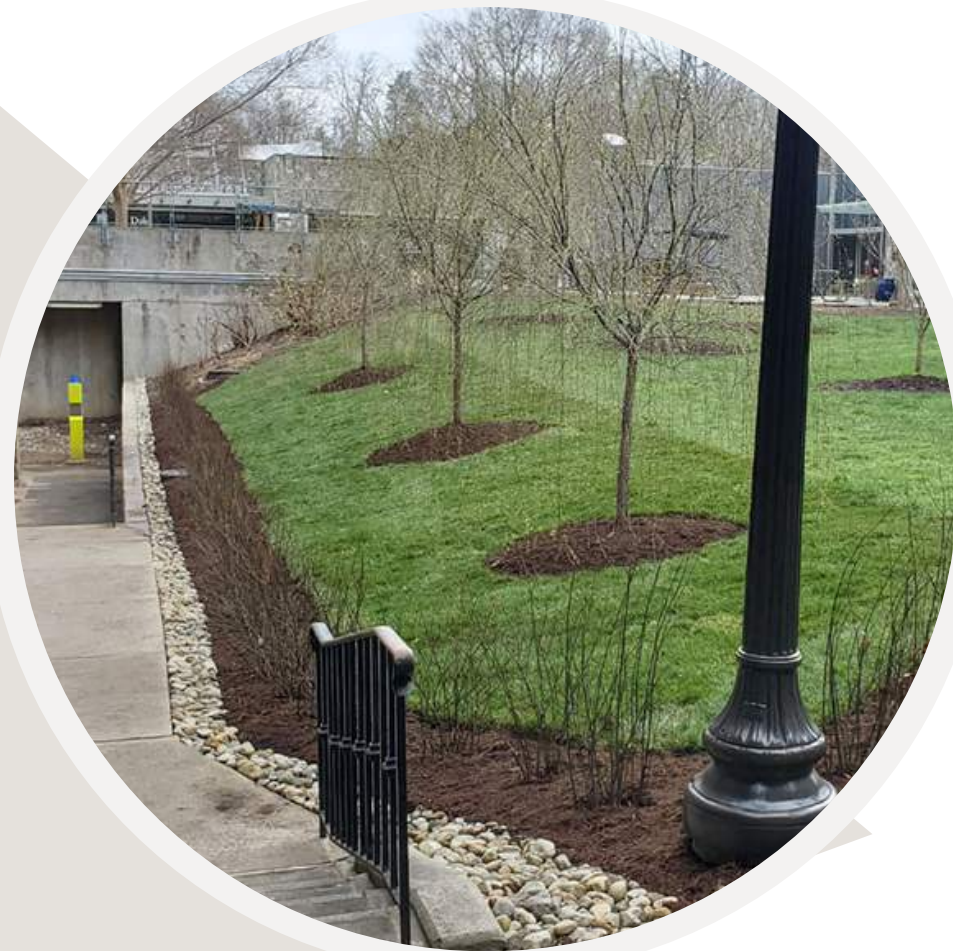
Completed Infrastructure & Renovation Projects



**Chapel Drive
Improvements**
December 2020



**Quantum Physics Lab
at Chesterfield Building**
April 2021



**Page Landscape
Renovation**
June 2021

Completed Utilities Projects



**LED Lighting
Phase 2**
November 2020



**Substation 2
Switchboard Replacement**
November 2020



**Heating Hot Water
Plant #2**
February 2021

In-Progress Utilities Projects



**Thermal Storage
Tank**

Expected April 2022

**Utility
Site 1**

Expected April 2022

**East Campus Steam Plant
Oil Boiler Installation**

Expected 2022

Energy Management & Climate Action

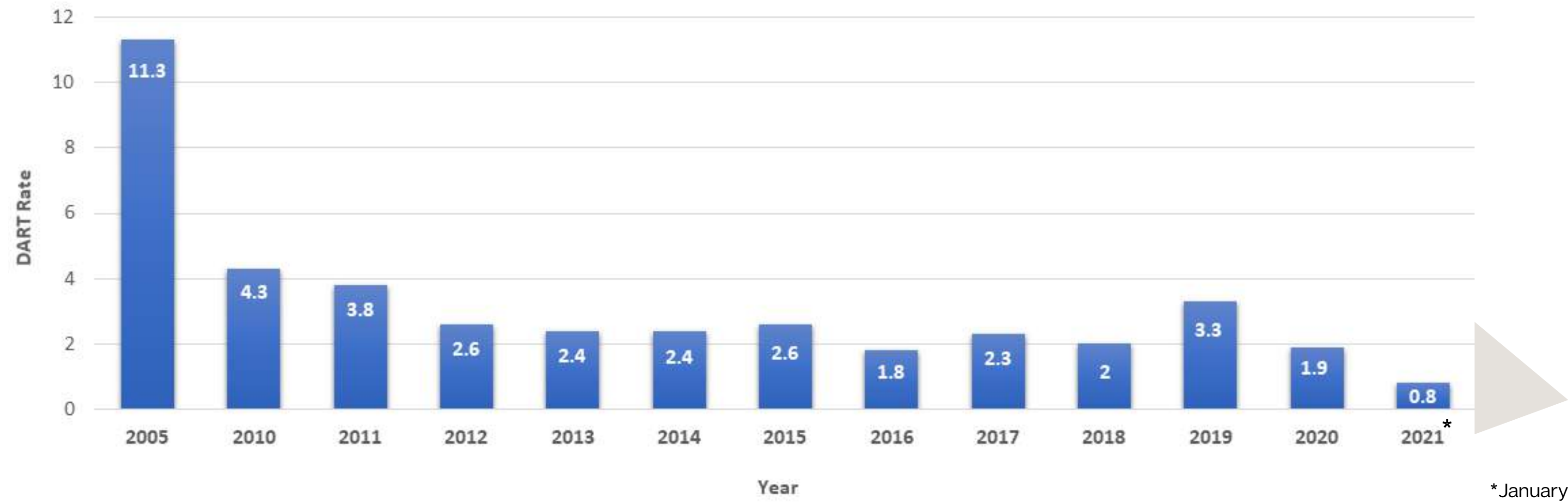


**Solar Energy Partnership
with Pine Gate Renewables**
Announced August 2020



Facilities Safety

Facilities DART* Rate History
*Days Away, Restricted, or Transferred Rate



Duke DART
Goal
≤ 4.0

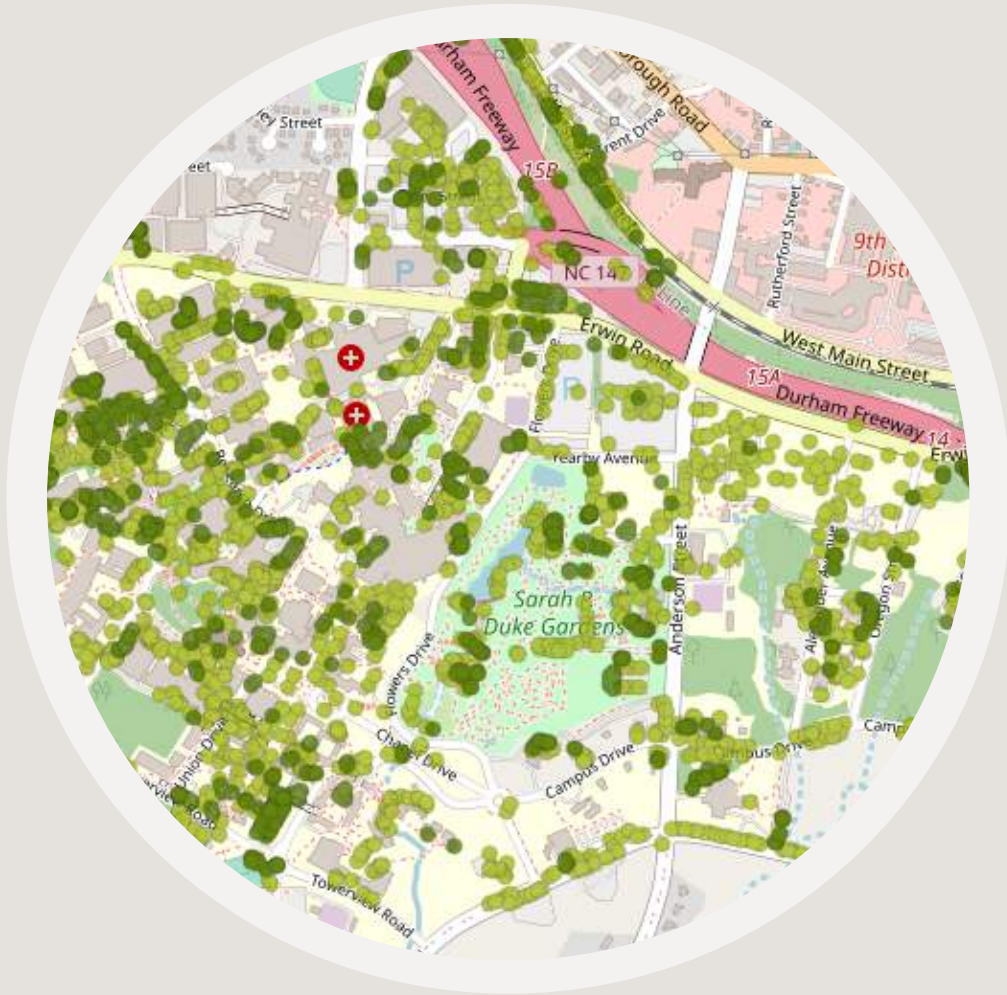
Have Met Duke DART
Goal
11 of last 12 years

Safety Training
Compliance
96.2%

Facilities by the Numbers



Campus Acres
Maintained
567



Trees
Managed
16,791



Flowers & Bulbs
Planted
16,574

Facilities by the Numbers



**Pieces of Equipment
Maintained**
13,619



**Fume Hoods
Repaired**
117



**Water Fountain Filters
Changed**
494

Facilities by the Numbers



**Cleanable Square
Feet Maintained
4.9 Million**



**Sanitation Square
Feet Serviced
19.9 Million**



**University Recycling
Square Feet Serviced
9.25 Million**

Facilities by the Numbers



**Pounds of Recycled
Material & Trash
17.3 Million**

**Buildings
Cleaned
142**

**Bulbs Replaced with
LED Lights
41,219**

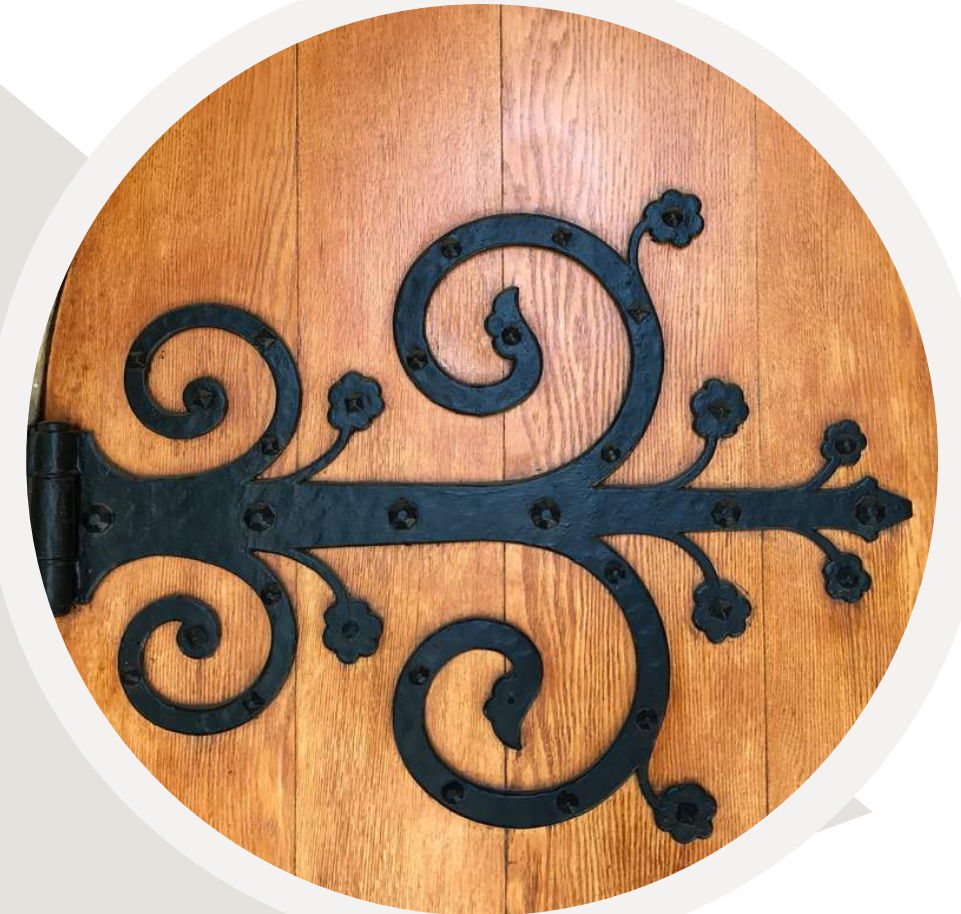
Facilities by the Numbers



**Work Orders
Completed**
32,356



**Building Keys
Cut**
14,000



**Gothic Doors
Restored**
71

Facilities by the Numbers



**Purchase Orders
Processed**
4,470

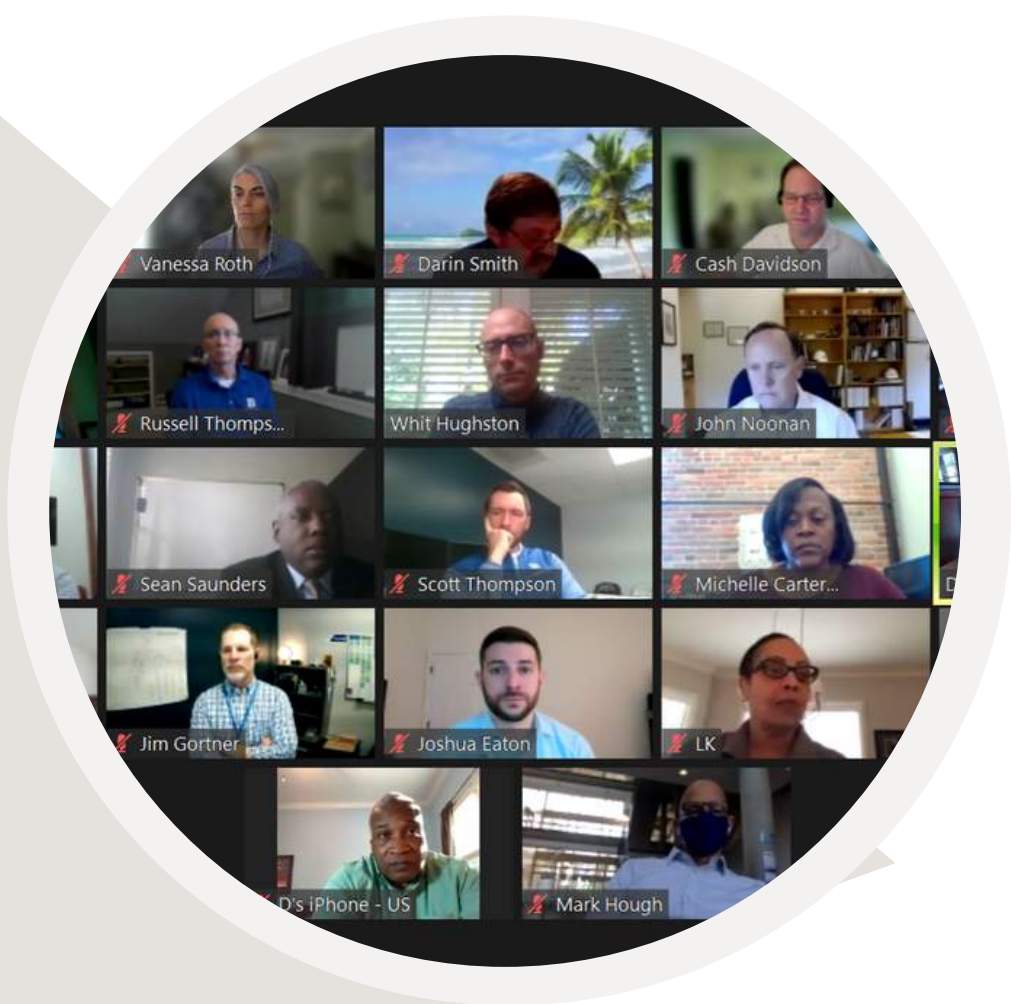
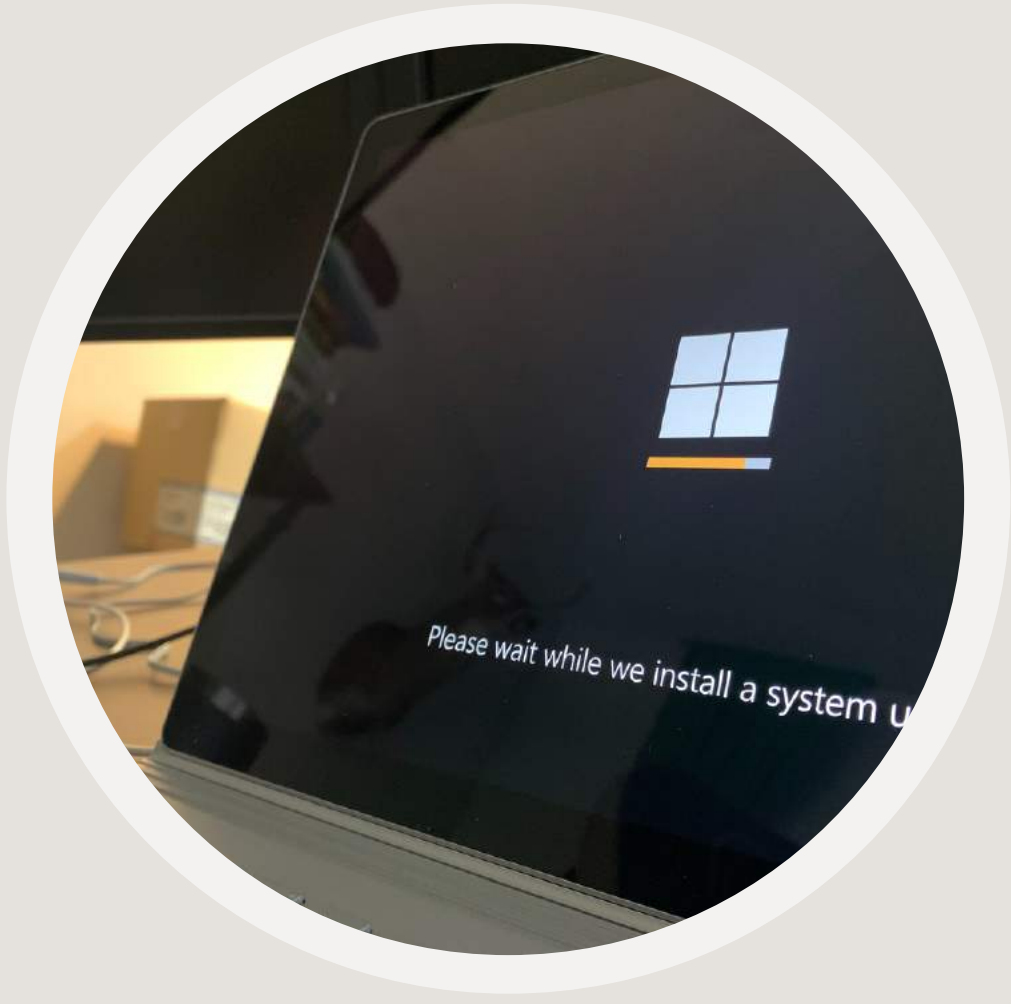
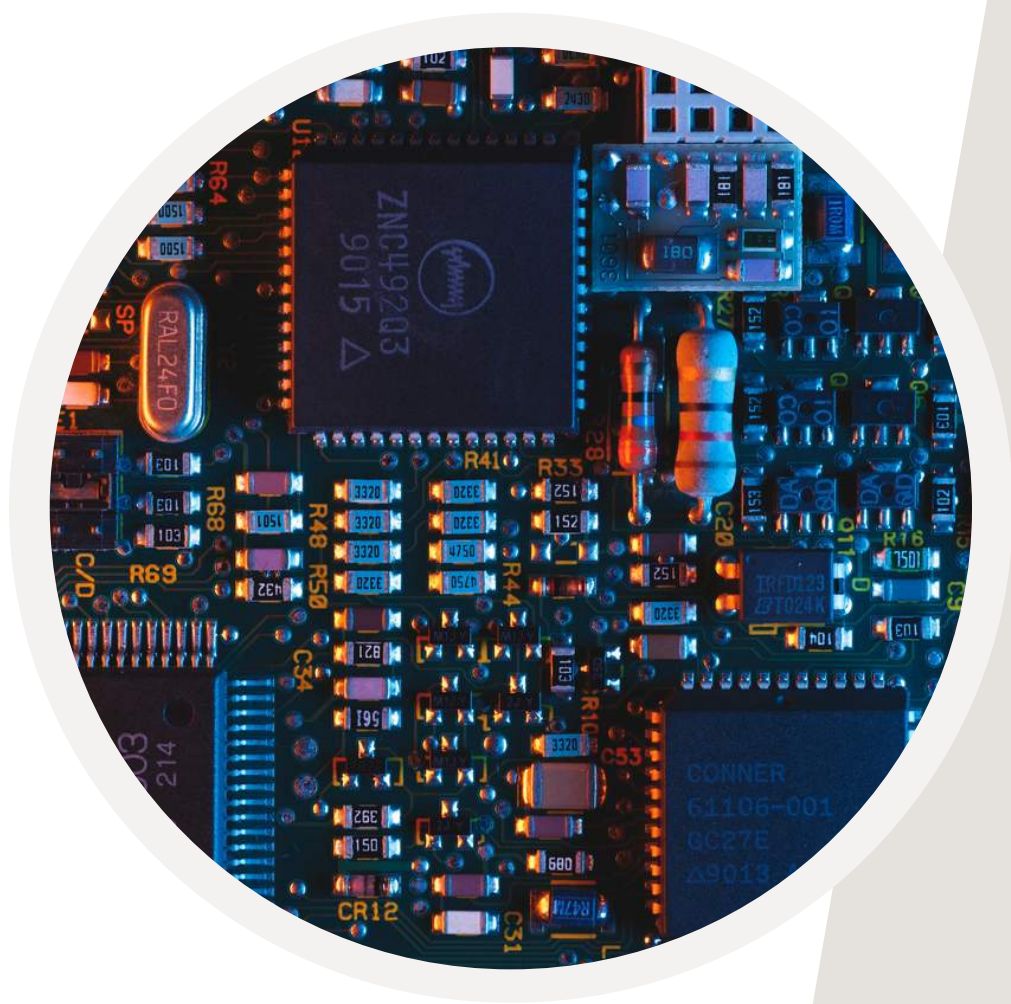


**Processed Purchase Order
Expenses Total**
\$90 Million



**Customer Phone
Calls**
4,085

Facilities by the Numbers



**Tickets Completed by
Facilities IT**
1,081

**Software Updates & Patches
Pushed Out Remotely**
380

**Department Hosted
Zoom Meetings**
6,295

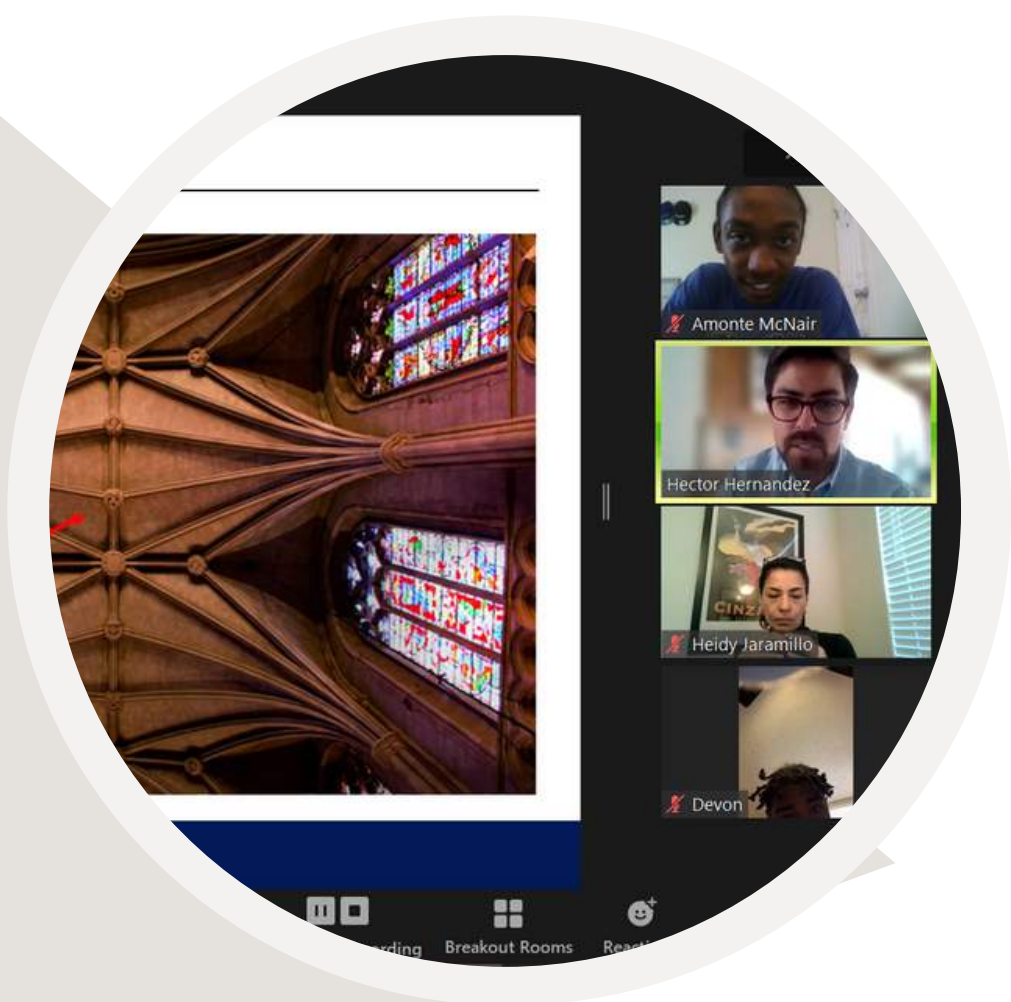
Facilities by the Numbers



E-newsletter
Subscribers
538



SMS Text
Notifications Sent
91



Staff Who Participated
in Student Internships
21

2020 Facilities Employees of the Year



Blake Aldridge, Steamfitter
Duke Utilities & Engineering (DUES)



Daryl Barnette, HVAC Planner
Technical Staff



Joshua Eaton, Assistant Director,
UEVS
Office Staff



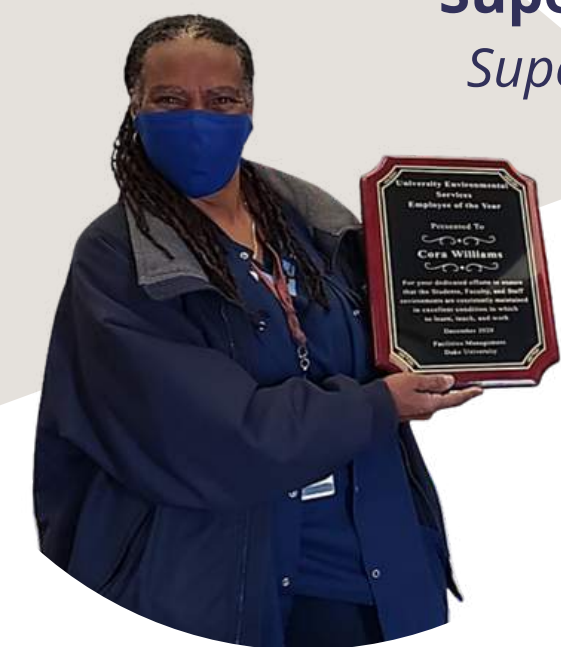
Yancey Leonard, Utility Shop
Supervisor
Supervisor



Jeremy Herndon, Senior Grounds
Equipment Operator
Landscape Services



Tommy Huff, Electrician
Facility Operations



Cora Williams, Housekeeper
University Environmental Services (UEVS)
Retired in 2021

2020 Employee of the Year Awards

Team of the Year: General Maintenance Shop



**Charlie Perez,
Manager**



Rickie Baker



LeRon Childs



Jeff Connolly



Heath Hall



Roosevelt Hall



La'Vell Jenkins



Lester Matte



Chip Meade



Roger Rose



Kelvin Sanders



Silvio Guardado



Don Watt
Retired in 2021



Bill Wheless

Years of Service: Facilities Employees 2020

recognized for 5, 10, 15, 20, 25, 30 or 35 years of service to Duke



**Number of
Employees**

88

**Combined Years
of Employee Service**

1,400

**Average Years
of Employee Service**

16

Architectural & Building Awards



Duke Reclamation Pond

Excellence in Landscape Architecture for General Design Award

Society for College and University Planning (SCUP)

Architectural & Building Awards



Rubenstein Arts Center

Honorable Mention, in Architecture for a New Building

Society for College and University Planning (SCUP) & American Institute of Architects (AIA)

Architectural & Building Awards



Karsh Alumni & Visitor's Center

Design Award

American Institute of Architects Connecticut

Project of the Year

American Institute of Architects (AIA) Connecticut

American Architecture Award for Schools and Universities

American Architecture Awards

Citation from American School & University in the Higher Education Division

American School & University Magazine

Architectural & Building Awards



Student Health & Wellness Center

National Healthcare Design Award

American Institute of Architects (AIA)


Program Award



Tree Campus Higher Education

13th Annual Award

National Arbor Day Foundation



**Creating tomorrow's Duke
today, by building,
enhancing and maintaining
the campus environment.**