

# FACILITIES SERVICES 2015 SUMMER & FALL PROJECTS CATALOG



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## Administration

### Special Projects/ARCHIBUS

Summer and Fall Update:

Archibus has finally been molded into the system we wanted to go live with in January. We've added several reports and continue to do so, we've closed out fiscal year 2015 and have finalized year-end audits of all warehouse inventories, we've also added a QA (quality assurance) server to Archibus for testing and development; however, Archibus still needs work to reach our full reporting and efficiency goals.

Partnering with OIT will allow us to modify the system more readily to our specific needs without relying on third-party consultants. They will be taking the lead to add an approval workflow to the Key Module which is currently being purchased and will be implemented over the next few months with an expected roll-out to campus in January 2016.

Phase 2 of the Archibus project will begin October 1 and include Capital Projects/Capital Budgeting, Condition Assessment, Commissioning, Clean Building, MSDS, Waste Management, EHS, GIS (ESRI integration), BIM support, Sustainability Assessment and Energy Management.

Expected installation of all modules is expected to be complete by January 2016. OIT will continue to support us in modifying these remaining modules to our specific needs. A full roll-out of tablet devices is also expected to continue this Fall and extend into the new year.

## Administrative & Support Services

Summer/Fall Projects:

In addition to everyday job duties, the Administrative & Support Services unit is working with Communications & Information Services and Special Projects to enhance Archibus processes related to accounts payable, accounts receivable, and warehousing.

## Communications & Information Services

### Sustainability

Summer Projects:

Some projects the Office of Sustainability worked on during the summer were the Project VEGGIE site redesign and organization restructure, 5 year Environmental Progress Report, TWRA Stream Clean Up Grant, TDEC Composting Grant, and Environmental Mapping Project.

Fall Projects:

Upcoming fall projects include the POWER Down Challenge, Renewable Energy Credit program restructure, Sustainable Student Design/Research Funding, Green Office Program pilot, Energy Peak Use campaign, Sustainability Communication Portal pilot, Game Day Zero Waste, Campus Sustainability Day (October 22), Digital Timesheets, and Zero Waste Event Policy.

## Employee Training & Development

Summer Projects:

The Employee Training & Development subunit worked on several projects during the summer of 2015. These projects are detailed below.

The subunit revised and redrafted the Custodial Certification Program (CCP) Information Guide to include changes to the program beginning in March 2016. Graphics and photos were added to the reformatted design to be more standardized and in-line with other Facilities publications.

Training conducted weekly two-day New Employee orientations. These orientations include handbook/policy coverage, professional image/conduct expectations, diversity training, computer training (Archibus, IRIS, and email) and team building exercises.

Respirator fit testing was conducted in June with Environmental Health & Safety. EHS will purchase a qualitative fit test kit for training personnel to conduct fit testing on Facilities employees.

Members of the training team cross-trained on post-orientation, post-termination, post-transfer procedures and records purge; this included becoming a system administrator for Skillsoft and getting additional IRIS access to check Attendee's Training history against Facilities training records.

Training personnel assisted employees individually and in groups in the Facilities Services computer training lab with Archibus (submitting/processing work requests, warehouse issues and leave exercises), Skillsoft OSHA training, and Outside Interests Disclosure Form submissions.

The training team also scheduled OSHA required respirator medical exams for all eligible Facilities employees, and arranged fit testing afterwards.

The Utilities shops, Lock & Key, Landscape, Building Finishes and Recycling employees were fitted for winter coats.

Training personnel served as search committee members for UC Supervisor, Assistant Foremen and Recycling truck driver positions.

Two Certified Cleaning Professional advanced course pre-exam review sessions were held.

This summer the responsibilities of the previous Training Coordinator were transferred to one of the training specialists while the coordinator position is vacant. This process was completed through several meetings and training sessions.

#### Summer/Fall Projects:

Many projects the Employee Training & Development Team began during the summer will extend into the fall. Some of these projects include the following:

Zone Maintenance Customer Service Certification classes are currently in session and will continue to run through the fall and into early 2016.

One Basic Computer Skills tutorial was completed during the summer, and the training team will continue to develop others throughout the fall.

Work began on the Construction Services Career Path and will continue throughout the fall. Development of other Facilities career paths will also take place this fall.

The training team began a Basic Electrical Course for construction which is expected to continue into the fall.

Proofing the Landscape Academy 200 Level Courses has begun and will be completed in the fall.

The formation of TNAPPA Planning Committees began this summer. This is part of a larger project to host TNAPPA in 2017.

The training team began the sync of all departmental OSHA training with employees' birth months. This ongoing project is expected to continue into 2016.

A mass conversion of the Facilities Services ID to incorporate the new UT logo was completed by training. Team members created more than 650 identification badges. Due to some title issues in IRIS, this project could continue, in part, to fall 2015.

Orientation remains a large ongoing project for Employee Training & Development. Orientation takes both members of the training team about 16 hours per week, depending on the number of participants.

The revision of the Landscape Career Path began and will continue into fall.

Proofreading and revising of the English translatable OSHA training provided by EHS continues. Team members are correcting mistakes, clarifying text and adding test questions so that the training is easier to translate into other languages and more consistent with the actual English version.

The training team partnered with the English Language Institute and is in the planning and development phase for a comprehensive, mandatory ESL program for all non-English speaking Facilities employees. Tentative start date is January 2016 or as soon as curriculum can be finalized.

A rough draft development of the Certified Cleaning Professional Instructor Manual that will detail expectations and requirements for appointed and certified instructors/trainers in the March 2016 certification program. Completion is projected by end of year or sooner.

Team members are in the initial outlining/research phase for a Facilities Services Mentorship Program.

The subunit is also in the revision stage of Building Services Assistant Foreman Training Program.

#### Fall Projects:

In addition to the ongoing projects carried over from summer to fall, several projects are also slated to begin during the fall of 2015. Some of these projects include the following:

The development and proofing of Landscape Academy 300 Level courses are slated to begin this fall.

Diversity training for high level employees will be organized by the training team. This training program is currently in development, but will not begin until fall.

The Training Specialist Search Committee will take place this fall.

Members of the training team plan to examine the creation of an overall Facilities University and through the process see what is currently working and what is not. Plans will begin with Zone Maintenance Academy. Early estimates project this as a five-year project overall.

A mass printing of duplicated Facilities ID badges is planned for the fall. These badges will be back up copies kept for Emergency Management purposes.

## IT Support & Maintenance

#### Summer Projects:

IT Support & Maintenance completed several project during summer 2015 including the redesign of the Facilities Services Web site, migration to Microsoft Office 365 email, roll-out of mobile devices for use with Archibus, recycling old equipment at Fleming Warehouse and/or taking it to surplus, upgrade of KRONOS Teletime software and migration of KRONOS Teletime payroll server to OIT, and the migration of Facilities Services File Storage to OIT servers.

## Summer/Fall Projects:

Some projects that were started by IT Support & Maintenance during the summer of 2015 will continue into the fall. These include upgrading Johnson Controls software and migrating Johnson Controls server to OIT, participating in the Facilities Services Emergency Operations exercises and setup, rolling out additional mobile devices for use with Archibus, and upgrading INVENSYS software and migrating INVENSYS server to OIT.

## Communications & Public Relations

### Summer Projects:

In addition to regular maintenance and updates to Facilities Services information distributed throughout campus and the Knoxville area, the Communications & Public Relations subunit started and completed several large scale projects this summer while also coordinating several smaller scale projects. Projects of note that took place this summer include the following:

Communications & PR compiled information for and developed the 2015 Facilities Services Showcase and Annual Review. The document details an overall summary of the department and its subunits, while also providing an annual review for each unit and subunit. The Communications & PR office was responsible for the drafting and publication of the document with assistance from Special Projects in providing benchmarking and Sightlines data.

With the release of new university-wide Web site templates, Communications & PR assisted IT Support & Maintenance in the development of a new site for the Facilities Services Department. This included updating and adding new information for each department subunit, while also identifying content that could be eliminated from the site. As part of this process new graphics and photographs were created and taken by the subunit as well.

Five campus project submission portfolios were submitted by the subunit to the American School & University Architectural Portfolio publication. These portfolios included professional photographs of each building, along with project summaries, space plans and project data. The five projects submitted for 2015 were Brenda Lawson, JIAM, Student Health, Support Services and Temple Hall.

A Facilities Services how-to video series was launched by the subunit this summer. Videos created and published to date include Pruning, Mulching, Weed Removal, Painting: Common Household Products, Clean Up, Basic Painting Techniques, and Drywall Preparation. Other videos published this summer included the delivery and installation of the new boiler at the Steam Plant and Facilities Fundamentals Workshop Videos.

The Communications & PR office organized and hosted the Facilities Services 4th of July Picnic. This year's picnic had more than 400 employees in attendance. Planning for the picnic included scheduling training, ordering food, organizing the raffle, coordinating food preparation and service, busing, and cleanup. This year's event was zero waste and all left over food was donated to the Love Kitchen.

The third Facilities Fundamentals Workshop was held this summer. This workshop featured Painting Services. The Communications & PR subunit organized the event including announcements, ordering food, preparing pamphlets, filming the workshop, organizing the content, filming the event, publishing the video, and sending out surveys.

A photo archive has been created of the Nationalized Classroom space on UT's Main and Agricultural campuses. The archive features hundreds of spaces on campus organized by location and size. Taking the photos and creating the archive was the responsibility of Communications & PR. The archive will be published by the first week of fall semester.

Throughout the summer the Communications & PR office has continued to maintain all of the Facilities Services social media sites. To date the department has 550 followers on Twitter, 277 likes on Facebook, 193 followers on Instagram, 30 people in our circles on Google+, 394 views on our YouTube channel, and 23 likes and 16 followers of our 191 pins and 9 boards on Pinterest. To improve Facilities Services reach through social media, a content calendar has been created for the year to help the subunit keep track of campus events, as well as planned campus construction projects.

The subunit completed its quarterly update of the Building Representative List this summer. In addition to the main list for public viewing, a secondary list with emergency contact information was also created.

Facilities Services organizational charts for each unit, and in some cases subunit, have been updated and are ready to publish. The staff directory for the department has also been completed updated and will be published on the newly launched department Web site.

The Communications & PR student assistants participated in several Student Engagement Showcase events during the summer. At these events they promoted the Facilities Web site along with the department social media pages.

The subunit coordinated creation and placement of several Cone Zone signs on campus. Updates and entries were also made to Cone Zone Web site. Signs and projects included: HSS, Perkins, 11th Street Garage, Student Union Phase 2, Lake Street Garage, Tom Black Track at LaPorte Stadium, Engineering Quad and Estabrook Road Streetscape Improvements, Torchbearer Plaza and Cir-

cle Park Renovation, Facilities Services Building (2000 Sutherland Avenue), West Campus Redevelopment, and Steam Line Construction at Circle Drive.

Throughout the summer the subunit also coordinated with UT Media Relations and local media outlets to showcase ongoing projects on campus as well as members of the Facilities Services team.

Monthly awards were given throughout the summer. These included three employee of the month awards and four exceptional team breakfasts.

#### Fall Projects:

The Communications & Public Relations subunit has several projects planned for the fall, some reoccurring and some new for 2015. The following details some of those projects.

The next Facilities Fundamentals Workshop will be held in late September and will feature UT Recycling. Communications & PR will organize the event and help with the workshop content. A video of the workshop will also be distributed through the Facilities Services YouTube Channel.

The subunit will continue to produce how-to videos featuring department units. Starting this fall the videos will feature UT Recycling and Sustainability. The Recycling videos will also focus on the subunit's campus programs such as public dropoff and recycling through UT Mail Services. Sustainability will have a featured video every month dealing with specific themes throughout the year.

The annual Chuck Thompson Awards will be held in October. Communications & PR will organize the nomination forms, head the selection committee and will schedule the event itself.

A major project the subunit will begin this fall is updating the Facilities Services Service Guide. The guide details the services offered by each of the department's units and subunits. Communications & PR will update all of the content, reformat the guide, and publish it through the department Web site.

## Construction Services

### Construction Projects

The following details the major projects completed by the Construction Services unit. The projects are organized by construction coordinator.

#### Summer Projects:

**Mark Henegar:** \$127,287.00 in painting and carpet for more than 56 work requests.

**Randy Huelsman:** The 11th St. Pedestrian Bridge was sandblasted and repainted. Renovations in Dougherty Engineering included the 6th floor and room 103 as well as lab renovation in room 324 and painting in room 430; renovation was also completed to combine two rooms into one. The first floor of Dunford Hall was remodeled for Disability Services to include ADA restrooms and newly painted walls. In HPER, the fan unit for the rock climbing wall was worked on. Rooms 102 & 110 of the MABE Machine Shop were reconfigured and refurbished; a fume hood and additional electrical connections were added. Renovation was completed in the Team Shop at Gate 21 in South & East Stadium as well as in room 412 of the Student Services Building, where carpet was repaired.

**Rick Caldwell:** Gravel, paving, and/or resurfacing was completed at five Lake Ave. parking lots, and the entrance to the G10 parking garage was repaired. The Student Housing command post in the 1st floor of Hess Hall was renovated and relocated. Fan & electric shades were installed and sprinklers were relocated in the Architecture Studio of the Jewel Building. Asphalt was repaired at the Lake Loudoun & Neyland Dr. intersection, and Stokely Management Center had ADA door actuators added to the mezzanine and 4th floor.

**Danny Pritchard:** Blanket maintenance was done in all classrooms. The 2nd floor of Austin Peay was renovated for the Psychology Dept. Eight classrooms in Estabrook were also renovated to become Nationalized Classroom Space. New audio/video equipment was installed in room 405 of Ferris Hall. In addition to the renovation of eight classrooms in HSS, one large assembly room was converted into three classrooms. Jessie Harris 104 had the air handling units replaced and floors refurbished. Perkins Hall had a new fire alarm installed in addition to the renovations of several offices, labs, and classrooms for the transfer of Engineering from Estabrook.

**Wes Hinshaw:** Brehm Animal Science had several general repairs completed, and renovation of room 212 was done in Morgan Hall. Carpet replacement and painting was done in Clarence Brown Theatre. Classroom 240 in the College of Nursing and 107 in South College were both renovated into office space. An ADA door actuator was installed in Dabney-Buehler, as well as a new door and frame in Greve Hall. The G10 parking garage was power washed. Screen installation was completed at the Visitor's Center, and three rooms were patched and painted in the Student Services Building.

**Bryan Lord:** The Solar Panel Project at the 11th St. Garage was completed. Tile, flat, and metal roofs were replaced at Ayres Hall, Biosystems Engineering, Crops Genetics Lab, ETREC Johnson Animal Research, JARTU, McCord Hall, Neilsen Physics, SERF, and Stokely Management Center. After considerable storm damage, built-up roofs were repaired/replaced/recovered at Ferris Hall, the Law Complex, and Neyland Biology Annex. The plaza roof was also replaced at Communications/Student Services. Door access was enabled at Brenda Lawson, and the new Distributed Antenna System (DAS) was installed for AT&T and Verizon in the Thompson-Boling Arena.

**Darcy Rathjen:** The theater curtain was replaced in Alumni Memorial Building. A new egress corridor was installed in the new patio on 2nd/3rd floor of the Communications building, and guardrails for the patio were replaced. New ADA door actuators at south and west entrances were installed at Panhellenic, as well as a new guardrail at the south entrance porch.

Fall Projects:

**Mark Henegar:** \$60,333.00 in painting and carpet for more than 28 work requests.

**Randy Huelsman:** The ADA door actuators will be addressed at Dunford Hall. Rooms 206, 207, 208 and 208 will be renovated and an office will be created in the Burchfiel Building.

**Rick Caldwell:** Sliding glass will be replaced with windows and a door in rooms 221 and 229 of Art & Architecture. Building security upgrades will take place campus wide. Rooms 262 and 52 in Communications will be renovated and refurbished. Concrete repairs will be completed at G1 and G2 parking garages. A dorm room wing will be converted into an office wing on the first floor of Hess Hall.

**Danny Pritchard:** Perkins Hall corridors will be renovated with new furniture, tack boards and monitors. Access controls for exterior and interior doors, and a new fire alarm will be installed at Perkins. All Perkins classrooms will receive blanket maintenance.

**Wes Hinshaw:** The booth in Art & Architecture will be sprayed and washed. The proscenium at Clarence Brown Theatre will be restored and the deluge system will be upgraded. A kitchenette renovation is slated for Communications Building room 457. A safety shower and eyewash station will be installed at Radiological Safety.

**Bryan Lord:** Built-up roofs at Andy Holt Tower, Hesler Biology Building, Howard Baker Center, McClung Tower, Morgan Hall, Nielsen Physics, Volunteer Hall, Walters

Life Sciences, and Art & Architecture will be repaired, replaced and recovered due to storm damage. Tile roof replacements will take place at the College of Nursing, Dougherty Engineering, and Food Safety Building. A new awning will be installed on the east side of Howard Baker Center and dome and window flashing damaged by hail storm will be replaced. Interior repairs, and roof investigation and remediation will take place at HPER. The metal roof will be replaced a JARTU. The flat roofs will be replaced at Jessie Harris. Window flashing and lighting rods damaged in storms will be repaired and replaced at Pratt Pavilion. A flat roof section and the metal roof at Pratt Pavilion will be replaced due to hail damage. Masonry repairs will be completed at the soccer stadium.

**Darcy Rathjen:** The guardrail will be replaced at the second floor roof of the Communications Building and Andy Holt Tower.

## Design Services

### Project Management

Summer Projects:

Major projects in progress or completed by Project Management during the summer of 2015 include the following: University Center Phase I Completion; JIAMS Phase I Completion; Henson Hall Renovation; Perkins Hall Renovation; Humanities Classroom Upgrades; Lake Avenue Parking Garage Program; Campus Master Plan Update; Hill Master Plan; Pool Utilization Study; West Campus Redevelopment Phasing Alternatives; Lactation room and Gender Neutral restrooms at HSS; Clarence Brown Theatre Assemble Entrance; Research Lab renovations in Dougherty; Lake Avenue Garage Program; Communications Building Terrace and Railing; Lab renovations in Buehler.

### Interior Design

Summer Projects:

Major projects in progress or completed by Interior Design during the summer of 2015 include: Graphics for VolShop and VolBooks; University Center Supplemental painting.

### Landscape Response Team

Summer Projects:

Major projects in progress or completed by the Landscape Design Team during the summer of 2015 include: Torchbearer Plaza/Circle Park; Blueberry Falls; Engineering Quad; Sorority Village slope planting and irrigation; TREC planting and irrigation; Phase I Signage & Wayfinding.

## Stormwater Management

### Summer Projects:

Major projects in progress or completed by Stormwater Management during the summer of 2015 include: Stormwater Committee Formation & Inaugural Meeting; Completed the campus Stormwater utility survey; Finalized the design for the Stormwater harvesting and reuse system for Phase 1 of the West Campus Redevelopment; Completed the Campus Stream Monitoring Plan; Completed the Stormwater Management Plan; Completed the Stormwater Outfall inventory and Dry Weather Screening; Completed the Stormwater Outfall Monitoring Report; Conducted Invasive Species Removal on 3rd Creek with the Adopt a Stream program.

## GIS Mapping

### Summer Projects:

Major projects in progress or completed by GIS Mapping during the summer of 2015 include: 2015-2016 Parking Map (Parking and Transit Services); 2015-2016 Basketball Season Parking Map (Athletics); Updated Campus Meal Plan Brochures (Aramark); College of Engineering Campus Map (College of Engineering); 2016 Football Parking Map & Permit (Parking and Transit Services); Fall 2015 Move-In Day Map & Directions (Housing); Blue Phone Map for Office of Communications and Marketing; Map of Extent of UTPD Jurisdiction (UTPD); Campus Mowing Sequences Map (Facilities Services); Updated Campus Buildings Footprints Map; Updated Active and Future Cone Zone projects and newly added layers); Updated Parking Map; Updated Accessibility (paths and slopes, elevators, curb cuts, building entrances, parking, video phone); Updated Emergency phones.

## Space & Archives

### Summer Projects:

Major projects in progress or completed by Space & Archives during the summer of 2015 include: Major Renovation Updates to plans then published to Archibus: Brehm Animal Science Building/Food Science & Tech Building, Hodges Library, Vet Hospital; Updated Small Scale Drawings of Backlogged mini audits to: College of Nursing, Communications Building, Morgan Hall, Conference Center, Ayres Hall, Art & Architecture; Verifying and updating gross square footage for all buildings on campus: 37 Buildings completed (Ongoing); Numbered rooms for all the West Campus Buildings among various misc. buildings, as needed for renovations.

## Design Unit (General)

### Fall Projects:

The Design Unit will begin or continue work on the following projects throughout the fall of 2015: Student Union Phase II; Strong Hall; Mossman; New Residence Hall; Stokely Gibbs Parking; Haslam Fields; West Campus Redevelopment; Support Services; Estabrook Phase II; JIAMS Phase II.

## Facilities Operations

### Building Finishes

#### Summer Projects:

#### Painting Services:

Painting was completed in common areas of Alumni Memorial Building and P1-P2 of Andy Holt Tower, the ground and 1st floors of Natalie Haslam Music, the west side of the 1st floor of Dunford Hall for Disability Services, a stairwell in Humanities, all rooms under construction in Henson Hall, suites 310, 301 & room 321 in Perkins Hall, and accent walls in the stairwell and book store at the new Student Union (Phase I).

Painting Services also cleaned all light poles located around Joe Johnson Pedestrian Mall, Hodges Library, and Hess Hall. There were 11 classroom updates in Humanities & Social Sciences, and the crews removed graffiti on the sidewalk near "The Rock."

#### Sign Services:

New ADA sign standards required various buildings on campus to be brought up to code. Updated buildings included Henson Hall, Perkins Hall, College of Nursing, Humanities & Social Sciences, Veterinary School, Blount Hall, TANDEC Building, Dougherty Engineering, Middlebrook Pike Building, Kingston Pike Building, Art & Architecture, McCord Hall, as well as buildings in Sorority Village & Fraternity Park.

Sign Services also completed Pedestrian Interpretive signage for all of UT Gardens and HGTV Showcase garden, as well as numerous exterior building signage throughout the Agricultural Campus.

In addition to these major projects, Sign Services also completed parking lot identification signs throughout all UT Parking areas, hundreds of name plates for various rooms, window & vehicle detail applications, and name badges; these projects will continue throughout the year. This subunit is also responsible for all directional updates for buildings, name changes, department moves, etc.

## **Building Finishes:**

Cone Zone signs and banners were installed at various locations all over campus by Building Finishes crews.

Concrete was poured for ADA Access Elec. Pads, sidewalks and numerous trip hazards across campus.

Other work orders included hanging and repairing doors, installing floor tile, patching sheetrock, brick and block repair, and hanging pictures, white boards, pictures, and cork boards.

Fall Projects:

## **Painting Services:**

Crews will start to paint all common areas of the Science and Engineering Building.

The exteriors of White Ave. Daycare and Lake Ave. Daycare will be painted.

Crews will finish painting the exterior of South College.

## **Sign Services:**

More buildings require additional ADA signage.

Replace damaged signage throughout the year.

Two newly acquired buildings on University Ave. involving complete renovation ADA signage.

New building and wayfinding signage for every campus building to include street signs and directions. This project will continue into 2016.

## **Building Finishes:**

This fall Building Finishes will install 280 new building signs.

The subunit will also address concrete sidewalks and trip hazards on campus, as well as additions to ADA access.

## **Building Services**

Summer/Fall Projects:

The Building Services subunit has two major goals beginning the summer 2015 and going through the fall:

Managing the student life portfolio. This begins with the transition of Student Life personnel and taking care of the new Student Union with the transfer of one existing Building Services supervisors, Aaron Nichols, leading the operation there.

Cleaning all outdoor venues after events. Building Services has taken on cleaning all outdoor stadiums after events including Neyland Football Stadium.

## **Landscape Services**

Summer Projects:

Some major projects Landscape Services accomplished during the summer of 2015 include:

Installation of 20,000 seasonal flowers and 12,000 tulip bulbs.

Demolition of 2118 Lake Avenue and convert site to parking.

Lake Avenue - Assist Construction team with grading and preparation of gravel lots for asphalt paving.

Thornton Athletics - Landscape renovation on Volunteer Blvd.

Perkins Hall - Move the solar bus stop to the Agriculture Campus.

Perkins Hall - Move iron sculpture to Tickle Engineering building to include reconfiguration of the existing landscape and irrigation.

Ayres Hall/West connector - Take on maintenance of improved landscape and irrigation.

Blueberry Falls - Take on maintenance of new landscape and irrigation expansion.

Student Union - Take on maintenance of new landscape and irrigation (phase I).

Morgan Hall - Landscape and irrigation renovation install.

JIAMS - Take over new landscape/irrigation maintenance.

TREC - Landscape and irrigation installation.

Blueberry Falls - Installation of landscape and irrigation around upper water feature to repair damages omitted by original construction documents.

Clarence Brown Theater - Repair landscape irrigation from ADA ramp installation.

P. Fulmer Way - Assist Building Finishes with sidewalk repairs.

Panhellenic - Assist Building Finishes with ADA concrete walk installation.

"The Rock" - Assist Building Finishes with installation of ADA apron.

"The Rock" - Remove the 3 inch thick mat of paint that slid off the rock (3180 lbs.)

2000 Sutherland Ave - Removal of old property fence, trees, and brush adjacent to Holston Railroad.

Provide building demolition and site preparation for construction of new parking lots on Lake Avenue.

Assisted with on-going campus wide underground utility

repairs (high voltage, steam, water, telephone).  
 Assist with electric switch gear installation east of TB Arena.  
 Assist with new waterline installation to Steam Plant.  
 Assisted HVAC with crane operation for rooftop unit replacements/repairs.  
 Installation of temporary irrigation mainline for the football practice facility.  
 Cherokee Farm – Provided property maintenance.  
 Sorority Village – Provided landscape maintenance to eight houses.  
 Hazardous tree removal campus wide.  
 Emerald Ash borer – Treatment of ash trees throughout campus for protection against EAB.  
 Tree pruning as needed throughout campus to provide clearance around security cameras, campus lighting, signage, and bus stops.  
 Asphalt pothole repair.  
 Bush hog mowing along non-UT properties adjacent to campus.  
 TB Arena – Remove ten tandem loads of river boulders under west ramp for plaza expansion. Moved rock to Neyland Stadium and Second Creek to correct erosion issues.  
 Dr. Bass Anthropology Facility – Provide storm water diversion away from long-term research area.  
 Sorority Village – Corrected malfunctioning storm water retention pond.  
 Gate 21 Plaza – Assist with repairs to collapsed storm water paving system under plaza.  
 Campus wide construction – Provided daily support to contractors and to ensure construction quality.  
 Facilities Fundamentals – Assisted with landscape instructional video productions.  
 Landscape Academy - Ongoing development of training and SOP curriculum.  
 Implementation of two professional horticulture staff members to include a Landscape Manager and Arborist.

#### Fall Projects:

Some upcoming fall projects slated for Landscape Services include:  
 Circle Park - Take on maintenance of new landscape and irrigation upon completion.  
 Sorority Village north slope - Take on maintenance of new landscape and irrigation upon completion.

Turf Manager to start in September.  
 Football gameday preparation/clean-up.  
 Campus wide tree replacements.  
 Campus wide turf aeration and over-seeding.  
 Seasonal flower installation (12,000 tulip bulbs & 10,000 pansies).  
 Continued development of the Landscape Academy training curriculum.  
 Revise the Landscape Services Career Path.  
 Stormwater Engineering Professor – Designing some rain gardens throughout campus and helping to installing agriculture bio systems grant – assisting with installation of rain gardens.

## Lock & Key Services

### Summer Projects:

Major summer projects completed by the Lock & Key Services subunit include:  
 Student Union – Phase 1 – keying, setup, and installation.  
 Henson Hall – keying, setup, and installation after renovation.  
 Dunford Hall – keying and setup for UC staff move over.  
 Dunford Hall – keying, setup and installation for Disabilities Services move to ground floor.  
 Arboretum Auditorium Oak Ridge – keying, setup and installation.  
 Housing Services – many conferences come with lock cores and repairs that covered the whole summer break.  
 Dougherty Engineering – 6th floor renovation – keying, setup and installation.  
 Clement Hall – renovation/removal of all cores and installing and replacing.

### Fall Projects:

Major fall projects planned for the Lock & Key Services subunit include:  
 Front Office - key request fulfillment and pickup is upon us with fall semester being our busiest time.  
 New computer database will be integrated into Lock & Key program.  
 University Ave. 1525 & 1526 – keying, setup, and installation.  
 Sorority Village – Elevator mechanical rooms – rekey all for outside contractor.  
 JIAMS – keying, setup, and installation.

## Rapid Response Team

### Summer Projects:

The Rapid Response Team completed a major project the first month of summer break, the moves related to the completion of the new Student Union. The subunit moved everything out of the old University Center to various locations on campus, as well as into the new Student Union Phase I.

Staff have been moved back into Austin Peay after renovations and staff previously located in Estabrook have been moved to Perkins Hall.

These projects are part of the 389 work orders that have been completed by RRT to date this year.

### Fall Projects:

Rapid Response Team has 43 work orders scheduled so far between September 1 and December 31, 2015.

These requests include moves at MTAS and Institute for Public Services, moving staff from the Glazer Building to 1610 University Avenue and Labs, and moves from Science and Engineering, Dougherty and Dabney/Buehler to the new JIAM facility.

RRT will also set up for special events on campus for staff throughout the year and for students during football season.

## Sanitation Safety

### Summer Projects:

The subunit has treated the exterior of 195 buildings and 14,590,842-square-feet of interior campus building space.

Sanitation Safety assisted with several projects to help keep other units and departments on schedule, including Perkins, Dabney-Buehler, Humanities, Ferris, HPER, Communications, Student Services, Stokely Management Center, Panhellenic, Dunford, and Henson, as well as the demolitions of 2018 Lake Ave., 2014 Lake Ave., and 907 Mountcastle.

Members of this subunit have also been involved with Holt Avenue Apartment Residence Hall, Student Union, Strong Hall, Mossman, and Stokely projects.

### Fall Projects:

The subunit has begun the next round of treatments to 195 campus buildings. This process will continue into the fall.

Through monthly preventive maintenance, the subunit will maintain 14,590,842-square-feet of interior campus building space.

Sanitation Safety also conducts football game-day preparations and treatments.

## UT Recycling

### Summer Projects:

Destination Imagination (DI): Provided recycling and compost bins for DI events, meals and high traffic areas. Result – 57 tons composted, 12 tons recycled.

CHIC: Provided recycling bins for CHIC events, meals and high traffic areas. Result – 8 tons recycled, 2 tons composted.

Public Dropoff: Added glass separation, plastic bag separation, and Styrofoam separation. Result – 2 truckloads plastic bags, 6 bins glass.

Move-in: Flattened and consolidated cardboard, collected other recyclable materials and rescue recyclables from roll off dumpsters at residence halls, fraternity houses and sorority houses around campus. Result – 20,000 lbs. of cardboard collected and counting.

Open Practice: Washed, placed and lined 400 orange recycle bins at Neyland Stadium; washed, placed, and lined (if necessary) compost bins at predetermined locations around Neyland; provided operational support during the open practice (picking up litter, collecting recyclables, etc.) Result – 15 cubic yard of recyclables collected.

Aramark Concessions Training: Instructed the non-profit volunteers who work in Aramark concessions stands in Neyland Stadium on zero waste practices, such as waste reduction, recycling and composting before, during, and after game day. Result – 300 staff trained.

Football game staff training: Provide recycling presentations to 700 staff involved in game day. Result – 700 staff trained on game day recycling efforts.

Resident Assistant Resource Fair: Set up a table with information about UT Recycling, initiatives, volunteer opportunities, etc. to inform resident assistants during their annual fall training. Result – 20 Resident Assistants engaged.

Resident Assistant Information Sessions: Gave two 25-minute presentations about UT Recycling, initiatives, volunteer opportunities, etc. to resident assistants during their annual fall training. Result – 50 Resident Assistants.

President's Ice Cream Social: Provided recycling and compost zero waste stations and zero waste goalies (staff) to direct waste streams; ensured that 90% of all waste from event was recycled or composted. Results – Collected 100 lbs. compost, 60 lbs. recycled and no trash.

Zero Waste Facilities Fourth of July Picnic: Provided recycling/composting containers and staff to ensure 90% or more of materials diverted. Result – Collected 150 lbs. compost, 60 lbs. recycled and 10 lbs. trash.

Zero Waste Orientation Lunches/Dinners: Had staff at every lunch and dinner to educate and ensure landfill diversion. Result – 4,000 new students and their parents reached.

Neyland Stadium Bowl Cleanout: One student spent 100 hours assisting in the cleaning of the stadium. Result – Every row walked and cleaned to desired specifications.

Vet School Finance Report: Showed trash and compost tonnage, and costs/savings associated with both. Result – Demonstrated return on investment of manure trailer of less than one year, and accruing cost savings each month.

Trash Billing: Completed work requests and added costs associated with trash service for auxiliaries. Result – Billed out more than \$180,000 worth of trash collection service to auxiliaries.

Allan Jones Swim Meets: Provided 50 recycling containers for events. Result – 24 cubic yards of recyclable material collected.

Ignite Serves Campus Bin Audit: Had 20 volunteers from Ignite program go to multiple buildings to remove unnecessary containers, label bins, and track locations. Result – 50 containers removed from buildings.

Housing Zero Waste Block Party: Zero Waste event for 400 people. Result – More than 90% diversion.

New Student Zero Waste Picnic: Zero Waste event for 4,000 people. Result – More than 90% diversion.

Warehouse clean-out: Cleaned out space in Facilities Warehouse and recycled as much material as possible. Result – 180 cubic yards of scrap metal recycled, multiple spaces cleared out, old chairs/desks recycled, old A/C units recycled.

#### Fall Projects:

Fall Kickoff Picnic – Chancellor’s Picnic: Provide containers and staff to make this a Zero Waste event.

Logo updated on recycling materials: With the logo change, we’re adding more information about what to and what not to recycle on each container.

Zero Waste event kit: Provide kit for student groups to make their events zero waste.

Update Solicitation event form: Push more responsibility on groups to provide waste and recycling collection for smaller events, include charges and incentives for recycling and composting to streamline process for Facilities Services groups who provide containers and service.

Bin uniformity/phasing out old bins: Phasing out dog-bone recycling bins and removing of and standardization of trash cans.

Aramark catering events: Strive to make more of these events Zero Waste.

Zero Waste Gameday: Strive for 90% diversion by end of football season by involving various projects including

engaging fans more and introduction of Zero Waste Ambassadors in the stadium.

Mug Project: Update logo and marketing of this reuse incentive program.

Comprehensive Recycling Report: Show tonnage, recovered amounts, and costs of the entire recycling operations for FY 2015.

Cherokee Farms Finance Report: Show trash tonnage, compost tonnage, and costs/savings associated with both.

Sevier Solid Waste Project: Explore options to send game day and other waste streams to industrial composting facility.

Trash chutes for stadium: Test and install trash chutes for stadium to streamline material removal from the stadium.

Finish upgrades to compost site: Revegetation, ditching, leveling, organizing, turning, and shed removal/replacement.

Move-out donation drive: Working with Goodwill Industries to promote a move-out donation drive at the end of the term.

Documentary screenings: Working with professors to create another documentary movie outreach event.

Art Show: Teaming with art professors and students to create a student art show at Gallery 1010, focusing on waste reduction and reuse.

Tabling: Tabling at various Welcome Week events and involvement fairs.

## Utilities Services

### Air Conditioning Services

#### Summer Projects:

Completed installation of new pumps at Reese Hall Chiller building.

Repaired damaged fan shaft in AHU #3 at Presidential Court.

Completed compressor change-out on process chiller at Plant Biotech building.

Completed start-up of new chiller at International House. Installed new mini-split system in room 349 at College of Nursing.

Assisted Vet School with swapping chillers so they could clean cooling towers.

Replaced isolation valves on incoming chilled water lines at Hearing & Speech.

Replaced chilled water coil in AHU #6 at Dabney-Buehler. Repaired busted steam coils in AHU #4 at JARTU.

Replacing A/C outdoor condensing units at Lindsey Nelson Stadium.

Replacing compressor in A/C unit servicing CRC Lab (old Plot Barn).

Replaced control air compressor at Ellington Plant Sciences.

Updating building control system at Lindsey Nelson Baseball Stadium.

Installed new mini-split system in camera room at Sherri Parker Lee Softball Stadium.

Provided support for the Orange and White Game.

Replaced bad seal on gearbox of cooling tower at Hesler Biology.

Installed water meter on make-up line to geo-thermal loop at Delta Delta Delta Sorority house.

Replaced defective compressor isolation valves on one circuit of the air cooled chiller serving Brenda Lawson Athletics Center.

Atchley Services to began removing chiller #1 at the SERF chiller house in preparation for installing new chiller being moved from the Brown University Center due to demolition.

Repaired items on building inspection report submitted by EHS.

Installed new motor in Haslam building cooling tower.

Replaced compressor in A/C unit serving the Facility Club level of the Boathouse.

Rebuilt heating water pump at Alumni Memorial Building.

Repaired bad sensor on chiller at Brenda Lawson facility.

Performed repairs on multiple A/C units at 2016 Lake Ave. Early Learning Center.

Repaired chilled water coil in air handler at Reese Hall.

Changed out condensing unit at Hopecote.

Repaired A/C unit serving room 219 and the ladies restroom at Perkins Hall.

Repaired freeze-dryer unit for lab in Dabney-Buehler.

Replacing condensing unit in CRC building (forestry products).

Replaced compressor in condensing unit at Environment/Landscape Lab building.

Began refurbishing cold room on 4th floor of Walters Life Sciences.

Replaced reversing valve in A/C unit at Annex B on the farm.

Repaired mini split in IT room at Dougherty Engineering.

Replaced condensing unit at Equity & Diversity.

Moved chiller from the University Center to SERF chiller house.

Replaced condensing unit at Auxiliary Services.

Repaired environmental growth chambers at Hesler Biology.

Performed controls repairs at the Kingston Pike Building.

Repaired air dryer at Hoskins Library.

Replaced compressor in package unit at the boathouse.

Replaced burnt-up starter on chiller #2 at Claxton Chiller House.

Performed service work on process loop chillers at plant biotech building.

Performed service on environmental growth chambers at Hesler Biology.

Repaired heating water pump at Alumni Memorial Building.

Rebuilt air dryer serving compressed air loop at SERF.

Performed repairs to package unit on Andy Holt Tower.

Installed new chilled water piping for installation of new air handler in room 219 on the second floor of Perkins Hall.

Repaired heating water pump at Vet School.

Repaired coupling for condenser water pump at Plant Biotech.

Installed new compressor in EGC # 5 at Hesler Biology and in RTU serving boathouse.

Replaced vibration switch on cooling tower at JIAM's building.

Responded to outages caused by storm on Thursday night/Friday morning.

Ordered materials and installed new mini-split A/C units in room 104 Jessie Harris building.

Replaced compressor in elevator equipment room at Morrill Hall.

Replaced compressor in unit serving the research animal facility at Jessie Harris.

Assisted with campus wide steam outage.

Assisted with electrical outage at Communications/Andy Holt chiller house.

Checked and adjusted air flows at Neyland Biology Annex.

Completed installation of new cooling unit for EGC in Room 410 at Walters Life Sciences.

Completed installation of chiller moved from UC to the SERF chiller house and bring online.

Repaired coupling on #1 primary pump at Thompson Boling Arena.

Rebuilt condenser water pump at Humanities building.

Cleaned air cooled York chiller at Brenda Lawson Center.

Reclaimed refrigerant from discarded window A/C units and refrigerators at Fleming Warehouse so they can be recycled.

Rebuilt heating water pumps at South Greenhouse.

Replaced bad condensing unit for server room on first floor at Plant Biotech building.

Performed repairs on York chiller serving the UTPD at the 11th Street Garage.

Assisted construction with moving fan coil unit at Communications Building.

Assisted Zone Maintenance with chilled water outage at the Communications Building so they could replace some non-working control valves.

Completed installation of desiccant air dryer to compressed air loop at the Tickle Engineering Building.

Began prepping Trane chiller at SERF chiller house for disassembly to perform repairs on 2nd stage vane assembly.

Performed work in Neyland Stadium in preparation for 2015 football season.

Recalibrated air flow in fume hood in room 716 in SERF.

Repaired exhaust fan serving fume hood in Hesler 232.

Repaired leaking coil in AHU serving the lobby area of Alumni Memorial Building.

Completed installation of new condensing unit in Room 301 of Perkins Hall.

Repaired building A/C controls at William Bass Building.

Replaced compressed air control air dryer and control station at BEES Lab Building.

Repaired walk-in freezer at Food Safety.

Repaired ice machine at Presidential Court.

Installed new bin for ice machine at Starbucks in Hodges Library.

Installed more than 30 new chemical feed pumps to building hydronic systems.

Installed new Biocide feed system at the Conference Center Building.

Replaced defective controller and installed a new inhibitor feed system at Haslam Building.

Installed new inhibitor feed system at Music Chiller House.

Installed new piping for biocide feed system and a new inhibitor feed system at SMC.

Installed and repaired existing piping at Taylor Law Complex.

Cleaned two cooling towers at Vet School.

Installed new cooling tower water treatment controller and feed system at JIAMS.

Replaced/repairs VFDs at Min Kao, Plant Biotech, Clement Hall, Student Health, Neyland Stadium, JARTU, Andy Holt Tower, Auxiliary Services Building, and Thornton Athletics.

Min Kao: Installed and connected the water bug notification alarm system through the existing DDC building system.

Student Health: Performed a complete air balance in the building.

Humanities: Installed VAV Boxes and new controls in remodeled room on the first floor of building. Completed air balance on system after installation was completed.

McClung Tower: Installed new controls for elevator equipment air handler unit in the Penthouse. It was left out doing the renovations of the building.

Earth & Planetary Sciences: Installed new controls on new package air handlers installed during remodel of the auditorium.

SERF: Phoenix repairs and installation/replacement projects (Labs).

Hesler Biology: Phoenix repairs and installation/replacement projects (Labs).

JARTU: Repaired major control issues in labs and on AHUs.

Dabney Hall: VAV control replacement project. Replaced obsolete devices as needed.

Ferris Hall: Replaced obsolete VAV controls on the 4th floor and upgraded the major controller to web based system.

Neilsen Physics: Installed new controls to units installed during the Planetarium remodel project.

Neyland Stadium: Repair/replacement of control system and components during renovation of the Vol Shop.

HPER: Upgraded DDC controls system to Web based program.

College of Nursing: Installed DDC controls system on existing air handling units and web based the control program.

McClung Museum: Upgraded existing DDC controls system to web based program.

Andy Holt Tower Penthouse: Upgraded existing DDC controls system to web based program.

Early Learning Center (Bldg. #2): Upgraded existing controls system to DDC and converted to a web based program.

Project consisting of moving our DDC servers for building automation control to servers located in the Office of Information Technologies.

Rebuilt condenser water pump #1 at the Vet Hospital.  
Replaced refrigerant sensors on air cooled chiller at Brenda Lawson.  
Replaced compressor at Jesse Harris research animal lab rooftop unit.  
Rebuilt #1 primary chilled water pump Plant BioTech chiller house.  
Replaced starter assembly on Trane chiller #1 Humanities Building.  
Replaced compressor in Trane unit serving the Haslem Tennis Center.  
Rebuilt condenser water pump #2 at Andy Holt chiller house.  
Rebuilt secondary chilled water pump #2 at Andy Holt chiller house.  
Replaced compressor controller board on #2 chiller at SERF chiller house.  
Replaced #1 condenser water pump motor at SERF chiller house.  
Replaced condenser fan motors #2 York chiller at Tickle Engineering Building.  
Replaced motor base plate on #2 BAC cooling tower at Hesler chiller house.  
Replaced chilled water coil in AHU #6 in the penthouse of the SERF building.  
Replaced condenser fan motors on Trane chiller at the Auxiliary Services building.  
Repaired/replaced slide valve assembly in screw compressor of McQuay chiller Alan Jones Aquatic Center.  
Rebuilt secondary chilled water pump Kingston Pike Building.  
Assisted construction with multiple remodeling projects in Dougherty Engineering building.  
Repaired sagging ceiling and refrigerant system in walk-in freezer in the bakery area of Presidential Court.

#### Fall Projects:

Install a second chiller in Hodges Library.  
Assist with moving cooling tower from Hoskins chiller house to the roof of Hoskins Library.  
Assist with installation and tie-in of chiller in Hoskins Library that was salvaged from Gibbs Hall before demolition. This chiller will serve Hoskins Library and Senter Hall until the new science building is completed on the corner of 13th Street and Cumberland Ave.  
Perform preventative maintenance on various campus chillers (rod out tubes, check starter connections, repair purge units).

Install new mini-split system in electrical room at Allan Jones Aquatic.  
Reassemble Trane chiller at SERF chiller house.  
Replace wooden cooling towers at Claxton chiller house with stainless steel towers salvaged from the University Center before demolition began.  
Replace secondary pump serving Dougherty engineering in the SERF chiller house and install back-up pump for redundancy.  
Move York chiller salvaged from Hoskins chiller house to Thompson-Boling Arena to replace off-line chiller #3.  
Move offline York chiller at McCord Hall to Jessie Harris Building to replace McQuay air-cooled chiller. Make connections, replace primary pump, and return to service.  
Install new slide assembly in circuit #1 compressor in McQuay chiller at Allan Jones Aquatic Center.

## Electrical Services

Projects described below are current Capital Projects at the university where Electrical Services provides project management, field supervision, technical and construction support, and utilities connections.

#### Summer Projects:

##### **High Voltage 13.2KV**

Transformer installations for Energy Efficiency: Two 1000KVA Transformers Mechanical Building; 1000 KVA Transformer – Communications Building; 1500KVA Transformer – Humanities; 750KVA Transformer – McClung Tower.

UTFS Electrical Services Project: New 15KV S&C Vista installation – 10 switches - for switching and isolation of existing underground distribution circuits outside Parking Garage G10.

15KV Cable Maintenance/Repair: Ckt 2 and Ckt 1 testing Residence Hall.

Steam Plant Renovation Project - Electrical: New 15KV and 5KV Arc Flash Resistant Switchgear; New 480V MCC Arc Flash Resistant Switchgear; New 13.2KV circuit; Expanded automated controls for normal and emergency power.

Residence Hall – New Gibbs: New utility connection - 13.2KV.

New Parking Garage: New utility connection - 13.2KV.

New Student Union - Phase 1: New utility connection – 480V.

West Campus Residence (WCR): Andy Holt Residence Hall – Demolition. Remove from campus 13.2KV utility connection.

11th Street Parking Garage – Solar panel installation and EV charging Station: Min Kao connection to Solar Power – Research.

New Strong Hall – Lab research Building: New utility connection - 13.2KV.

Outdoor Lighting – Campus wide - maintenance.

### **Electrical Services (Secondary)**

Lighting System Programming – Lutron: Student Health Building, Anderson Athletic Center, Haslam Business Building, Music Building, Lighting System Programming – Leviton, Ellington Plant Science.

Variable Frequency Drive (VFD) replacements; Student Health; SERF; Plant Biotech.

Power Quality - Grounding Electronic Equipment for Research, Building Access and IT applications: SERF, Dougherty Engineering, Communication University Extension.

Events: After class and weekend student and faculty events, special events - Destination Imagination, summer camps, etc .

Athletics – the Sports Bubble: Emergency System - Generator.

### **Fire Alarm and Building Access**

New fire alarm systems in new buildings.

New building access system in new buildings (including residence halls).

Generators: Yearly Testing of FA systems – All buildings (Fraternities/Sororities Athletics, Residence Halls, Academics , etc.).

New Building Access Contract – Upgraded existing Building Access hardware and software to new IP based Building Access hardware and software – Campus Wide, Including AG Campus.

Fall Projects:

### **High Voltage 13.2KV**

New 15KV S&C Vista installation – 10 switches - for switching and isolation of existing underground distribution circuits outside Parking Garage G10 – Cable Installation

Overhead Circuits 7 and 8 to Ag Campus . Relocate to Underground Distribution.

Chamique Holdsclaw UT Substation Renovation: Installation of new 15KV Switchgear for Circuits 1 thru 10. Design.

13th Street and Cumberland: New Science Lab Building; New Utility Connection 13.2KV.

Cherokee Farms Complex: New 13.2KV Utility Loop – KUB Project/UTFS Support.

Residence Hall – New Gibbs: Building 480V Distribution – Arc Resistant Switchgear.

New Parking Garage: Building 480V Distribution.

New Strong Hall – Lab research Building: Building 480V Distribution – Arc Flash Resistance Switchgear.

Neyland Stadium - Home Football Games – HV Electrical Support.

13.2KV Underground Cable Distribution Campus Wide - Maintenance/Testing.

Outdoor Lighting – Campus Wide - Maintenance.

### **Electrical Services (Secondary)**

Lighting System Programming – Lutron.

Lighting – General.

Variable Frequency Drive (VFD) replacements.

Power Quality - Grounding Electronic Equipment for Research, Building Access and IT applications.

Neyland Stadium - Home Football Games –ES Electrical Support.

After Class and Weekend Student and Faculty Events.

Special Events - Home Football Games.

Support for Fire Alarm/Building Access and HV.

Generators.

Building Electrical Distribution.

### **Fire Alarm and Building Access**

New fire alarm systems in new buildings.

New building access system in new buildings (Including residence Halls).

Generators.

Yearly Testing of FA systems – All buildings (Fraternities/Sororities Athletics, Residence Halls, Academics , etc.).

New Building Access Contract – Upgrade existing Building Access hardware and software to new IP based Building Access hardware and software – Campus Wide, Including AG Campus.

## **Plumbing & Heating Services**

Summer/Fall Projects:

Plumbing & Heating Services crews worked on cleaning out catch basin on roadways.

Drainage at the baseball stadium was reworked and cleaned out.

A 24 hour steam outage was held. During this time five leaks and an expansion joint were repaired on the main steam lines throughout campus.

Installation of a temporary water line for Fraternity Park while a new main is installed.

A temporary water line was installed behind the Steam Plant for KUB to install new gas line.

Crews are reworking feed for chemical pots at JIAMS.

Extending steam line and installing steam kettles from UC to Kitchen at Morrill.

Extending gas line and installing oven and stove from UC to Kitchen at Morrill.

Reworking and repairing plumbing drain lines at Henson Hall.

Sinks and other leaks were repaired at Henson Hall.

Installation of new radiators in remodeled areas of Henson Hall.

Installation of 50 water fountain bottle fillers around campus.

Removal of water booster pump package and four leslie steam hot water stations from Apartment Resident Hall before demolition started.

Fabrication and installation or repair handrails around campus.

Reworking steam convertor for hot water at Brenda Lawson Sports Complex.

Crews completed the installation and connection of the new gas line for the Torchbearer Statue.

Repaired trough drains at the Vet School.

At the Vet School crews repaired the horse tread mill, trough drains, and replaced valves on a water line.

Installation of new regulators and temperature probes on steam hose reels.

Installation of fire hydrant on the east side of the Vet School, at Estabrook, and at Parking Services.

Repainted all campus fire hydrants and repaired fire hydrant at Law College.

At the Tickle Engineering Building crews installed a new emergency drain on a tank, reworked the concrete wash down area for lab work, and installed a sump pump at the man hole near the building.

New regulators were installed at the SERF Penthouse and South Greenhouse.

The old water heaters and leslies were removed from the University Center.

Steam feeds were cut for construction projects on campus.

Crews are inspecting and coordinating with KUB for a water and sewer line replacement project.

Inspecting and coordinating Capital steam line project on The Hill and 16th street.

Replaced plumps at Reese Hall chiller building and at Communications.

Rebuilding a bearing housing for shaft at the Law College.

Repaired steam leak on feed at Blount Hall.

Replaced steam line in ally behind Law College.

Installing low flow fixtures in SERF building and around campus.

Installing flash tanks on steam stations around campus.

Fixed major leak in drain line at Carrick Hall.

Pumped out Dive Pool for repairs to surface at Allan Jones Aquatic Center.

Provided temporary water for cooling tower at Walters Life Sciences during an emergency water line blow out.

Provided temporary water line for Walters Life Sciences for the building feed to be tied onto the new main.

Installed a sump pump in Jesse Harris.

Installed an expansion joint in Thompson Boling Arena.

Repaired steam leak in tunnel at Dougherty Engineering.

Replaced storm drain on Agricultural Campus below Crops Genetics.

Providing support for construction projects on campus.

## Steam Plant

### Summer Projects:

A new high voltage switchgear was added to give the Steam Plant redundant power source.

The controls were upgraded on the solar gas turbine generator.

As of March 30th all of the coal was burned at the Steam Plant.

The coal fired #2 boiler was removed and flooring was repaired in preparation for the new boiler.

The new #2 gas/oil fired boiler was delivered during the summer and installation continues.

The two 300 hp. gas compressors had to be rewired due to shorts in the wiring. More than 60 wires had to be pulled.

Boiler #1 grates had fire brick laid over to make a better seal for the fire box, creating better efficiency.

A new gas flow meter was installed on #1 boiler after the piping was reworked, and new conduit and wire had to be rerun.

Five new fuel oil tanks were added to give the plant more oil capacity, increasing the storage to more than 160,000 gallons.

Recirculating valves were added to feed water pumps and condensate pumps.

Condensate pumps were replaced.

The old feed pumps were reinstalled after the floor was completely redone due to salt damage.

Blow down lines on #4 boiler were repaired.

All the boilers were taken off line and cleaned for yearly inspection.

Repaired steam lines on two heaters at #5 boiler.

Air lines going to gas compressors had to be repaired.

Water department has been on the search for a continued hard water problem.

Maintenance on air compressors including new air dryer.

Mowed and trimmed grass around the Steam Plant - ongoing.

The Steam Plant had produced more than 465,228,042 pounds of steam during the summer.

The drain line for boiler water was replaced with new stainless piping.

The forced draft fan on #5 boiler was replaced.

Water level sensing line on #4 boiler was repaired.

Sump pump in the condensate pumps replaced.

Water line going to water softeners had to be repaired.

Exterior walls have to be repaired to corner of plant in middle of repairs.

#### Fall Projects:

The 300-foot stack is to be torn down this fall.

The precipitator is to be torn down, as well as the coal receiving building.

Continue to clean the Steam Plant, purging the plant of all coal burning equipment.

A new 8-foot high pressure gas line is to be installed along with new regulating stations this fall.

This fall the other two heaters at #5 boiler have to be re-worked and new steam traps installed.

Flooring at water softeners are in the process of being redone.

Commissioning of # 2 boiler.

## Zone Maintenance:

### STAR Team

#### (Special Team to Assist Research)

#### Summer Projects:

Designed and implemented the building inspection program.

Inspected doors in multiple buildings and made needed repairs.

Building scoping completed in Art & Architecture, College of Nursing, Conference Center, and Plant Biotech.

Lighting surveys done at Clarence Brown Theatre, Nielsen Physics, Thornton Athletics Center, Volleyball Practice Facility, Soccer Stadium, Softball Stadium, and Auxiliary Services.

Coordinated installation of door astragals in Min Kao for security reasons.

Installed sign holders on doors of over 700 labs across campus.

Assisted Vibration Analysis of equipment in 4 maintenance zones.

Remodeled SERF 603 & 315 for the new director of NIM-BIOS. Assisted in her move in and getting her research started.

Installed glove box in SERF 517 for Dr. Hall.

Repaired floor and walls from leak damage in Morgan Hall 212.

Repaired doors and A/C in Henson Hall after the renovation.

Designed and built a sound proof dog box for a research study by Dr. Albright at the Vet School.

Started the renovation of Buehler 602-605 for Dr. Darko, a new Chemistry Department hire.

Started design for the Senter Hall greenhouse addition and TANDEC Hi-bay area renovation for the College of Engineering.

Completed renovations of the Dougherty 6th floor, and the Unit Ops lab in the basement and Lab 324 for Dr. Ragauskas.

Have gone through Phase I of JIAMS to ensure lab equipment is functioning properly and working on coordinating move into Phase I of the building.

Liebert Unit control upgrades at Claxton.

Lighting Upgrades to LED in South College.

#### Fall Projects:

Complete renovations of Buehler 602-604, TANDEC shop area renovations, and Senter Hall Greenhouse Addition.

Lighting upgrades in Dabney Buehler, Walter's Life Sciences, Student Aquatic Center, Nielsen Physics and Bio systems Engineering.

Liebert Unit control upgrades at Min Kao.

Move people into to Phase I of JIAMS.

## Zone Maintenance

Summer Projects:

### **Brehm Animal Science:**

Corner, wall, and chair guards were installed to prevent future damage to building. We also installed new plumbing for the deionized system to make it more efficient and a rain shield around all the fresh air intakes to prevent water damage from storms.

In preparing labs and classrooms for the school year, ductwork was rerouted to eliminate sound transfer between classrooms and offices. We also installed door sweeps in labs to prevent a high dust environment from Arena, and we are still working on updating exterior light fixtures to LED to save money and improve safety on campus.

### **Food Science and Technology:**

Corner and wall guards were installed throughout high traffic areas to prevent damage, and ductwork was rerouted to eliminate sound transfer between classrooms and offices.

Crews also worked with lab users to make the areas work better for their needs and updated exterior light fixtures to LED to save money and improve safety on campus.

### **Food Safety and Processing:**

Due to water damage, crews worked on decreasing humidity in the attic by replacing the existing ceiling tiles to provide a better work environment for everyone.

Exterior light fixtures were updated also to LED to save money and improve safety on campus.

### **North Greenhouse:**

Crews worked with the greenhouse manager to make the systems are as energy efficient as possible; exterior light fixtures were updated to LED to save money and improve safety on campus.

Door sweeps were installed on all doors, and we continued to update shutter motors and worked on cooling pads and pumps to prevent any leakage.

### **Central Greenhouse:**

Crews worked with greenhouse manager to make the systems are as energy efficient as possible. In addition to updating exterior light fixtures to LED, crews cleaned the roof vents and are working to keep all Priva control systems in good repair.

Personnel continued to update shutter motors and worked on cooling pads and pumps to prevent any leakage.

### **South Greenhouse:**

Again crews worked with the greenhouse manager to make the systems are as energy efficient as possible; exterior light fixtures were updated to LED to save money and improve safety on campus.

Door sweeps were installed on all doors, and Zone Maintenance team members continued to update shutter motors and worked on cooling pads and pumps to prevent any leakage. Shade cloths were also replaced. Overall, intense and total maintenance was done in this greenhouse.

### **Joe Johnson Animal Research and Teaching Unit:**

The water supply system for boilers was upgraded and new pumps were installed. Exterior light fixtures were updated to LED to save money and improve safety on campus.

### **McCord Hall:**

Exterior light fixtures were upgraded to LED to save money and improve safety on campus. After a new roof was installed, crews have been making repairs throughout the building due to prior leaks.

### **Business Incubator:**

In addition to patching, repairing, and painting walls in offices, crews also updated exterior light fixtures to LED to save money and improve safety on campus.

### **Morgan:**

Zone Maintenance personnel updated exterior light fixtures to LED to save money and improve safety on campus, and after a new roof was installed, crews have been making repairs throughout the building due to prior leaks. Tiles were also replaced and hallway floors were painted.

### **TVA Greenhouse:**

Crews worked with the greenhouse manager to make their systems are as energy efficient as possible. Steam radiators were repaired, door sweeps were installed, and we continued to update shutter motors and work on cooling pads and pumps to prevent leakage.

Exterior light fixtures are being updated to LED to save money and improve safety on campus.

### **Plant Science Annex B:**

Exterior lighting was updated to LED, and existing T-12 ballasts and bulbs were changed to T-8 ballasts and bulbs for energy efficiency.

### **Biosystems Engineering & Environmental Sciences Lab:**

Exterior lighting was updated to LED, and existing T-12 ballasts and bulbs were changed to T-8 for energy efficiency.

**Biosystems Engineering & Environmental Sciences Office:**

Exterior lighting was updated to LED, and existing T-12 ballasts and bulbs were changed to T-8 for energy efficiency.

**Butler:**

Exterior light fixtures were updated to LED to save money and improve safety on campus.

**CRC – Bioenergy Science:**

The DI system was updated to provide the highest quality available for lab use.

**CRC – Material Science:**

The exterior light fixtures were updated to LED to save money and improve safety on campus.

**Crops Genetic Lab:**

The exterior light fixtures were updated to LED to save money and improve safety on campus, and steam traps were replaced for steam conversion.

**Ellington Plant Sciences:**

The exterior light fixtures were updated to LED to save money and improve safety on campus.

**JlAMS:**

The Joint Institute for Advanced Material Science is a new research building that contains state of the art equipment for our customers. It is scheduled to open at the first of the year. This is the first stage for this area in the zone. They have several more lots to add more facilities.

The exterior light fixtures were also updated to LED to save money and improve safety on campus, and crews are still working with various lab users to maintain proper room temperatures. This building works with a wide variety of animals and fish, which require a great deal of attention.

**Racheff:**

The exterior light fixtures were updated to LED to save money and improve safety on campus. Steam radiators were updated to make the greenhouse more efficient, and old fixtures were replaced to provide better lighting.

**Publications & Services:**

The exterior light fixtures were updated to LED to save money and improve safety on campus.

**Plant Propagation:**

The exterior light fixtures were updated to LED to save money and improve safety on campus.

**Plant Biotech:**

Zone Maintenance continues to work on exterior by changing old fixtures inside the building to LED lighting.

**Kingston Pike:**

The exterior light fixtures were updated to LED to save money and improve safety on campus, and crews worked with Air Conditioning Services to regulate room temperatures and better serve our customers.

**Environment & Landscape:**

The exterior light fixtures were updated to LED to save money and improve safety on campus.

**One Call:**

Zone Maintenance has revamped the Facilities Services One Call System that operates 24/7/365 to provide quicker service to the entire UT campus.

There are nine employees who receive a wide variety of calls for assistance and maintenance working a 7/4-8/2 schedule to address any issues that arise after normal operating hours. They work in conjunction with an on-call list for each shop, along with other UT departments to ensure public safety of the buildings and elevators.

This team currently operates by phone requests only, but the unit is working on adding texting and e-mail to contact One Call personnel to enable the team to better serve customers. They answer from 70 to 100 calls per week, and the goal is to minimize wait time for our customers.

**Conference Center:**

Crews installed LED light fixtures on the outside of building on both the Locus and Henley St. sides to improve safety for students and faculty.

Personnel also installed safety handrails around the pit area and boilers in the machine room. Floor tiles were replaced on the 2nd floor at the east end of building.

The exterior light fixtures were updated to LED to save money and improve safety on campus, and we cleaned and painted all machine room walls and floors.

**11th Street Parking Garage Stairwells:**

The exterior and stairwell light fixtures were updated to LED to save money and improve safety on campus.

**Jessie Harris:**

Several ceilings in offices and classrooms were updated, including the computer lab; it was also painted and old carpet was replaced with floor tiles. Room 104 was updated as well with new AC units and flooring.

Crews worked on replacing all the asbestos floor tiles in hallways and are still working to update approximately 267 interior light fixtures from old T-12 to T-8 ballasts and bulbs. They also rebuilt approximately 150 steam traps throughout the building creating energy savings.

**Early Learning Center (Daycare):**

Floor tiles were replaced in children's classrooms, and the approximately 8'x10' termite damaged wall in kitchen area was removed and replaced with metal studs and new sheetrock.

**Hoskins Library:**

Crews replaced wood on all the outside park benches; we also repaired expansion joints and tiles on 1st and 2nd floors. Ceilings were replaced in several offices, the lobby, and 1st floor hallways, and exterior lighting was updated to LED.

**TANDEC:**

The exterior and stairwell light fixtures were updated to LED to save money and improve safety on campus.

**Senter Hall:**

The exterior light fixtures were updated to LED, and we replaced shade cloth and all the cooling pads in both greenhouses.

**Blount Hall:**

Crews upgraded the interior lighting to T-8 ballasts and bulbs and exterior lighting to LED. Personnel also updated lighting and ceiling tiles in the lobby area and 1st floor conference room 112, and replaced several steam traps throughout building.

**Taylor Law Complex:**

A new safety ladder and cage were installed in drywell for accessing generator, and crews are working on updating outdoor bollard light fixtures around the building to LED.

**Panhellenic:**

Interior exit signs and all outdoor light fixtures were updated to LED.

**Vol Shop Cumberland Ave.:**

Crews are currently adding a chain link fence to protect the roof equipment, and have added a safety ladder to access the roof area.

**Greve Hall:**

Outdoor fixtures were upgraded to LED.

**Stokley Management Center:**

Crews updated 150 light fixtures in lobby area to LED and replaced all 30 outdated T-12 ballasts and 60 bulbs to T-8 in stairwells. An expansion joint at the entrance of SMC was also replaced.

**Haslam Business:**

All elevator lights and fixtures on the front of the building and overhead area to the bridge were updated to LED.

**Dunford Hall:**

Crews went through the whole building and rebuilt all steam traps and worked on updating all outdoor fixtures to LED.

**International House:**

All exterior light fixtures were updated to LED.

**Hodges Library:**

The steam bundle on the hot water Leslie and two bad steam traps were replaced. All outdoor light fixtures were updated to LED.

**Henson Hall:**

In all office spaces, approximately 60 38"x48" pieces of Plexiglas were replaced with Polycarbonate. We also worked on updating all outdoor fixtures to LED.

**Baker Center:**

Crews worked on updating all outdoor bollard lights to LED.

**Neyland Stadium:**

Crews worked on restrooms and lights on all three levels and are continuing to work on skyboxes for football season.

In the Peyton Manning locker room, Wolf Kaplan, and Lauricella Center, crews worked on lights and restrooms for planned events.

**Neyland Thompson, Brenda Lawson, and Anderson Training Center:**

Personnel worked on changing lights in the indoor football field and weight room and will complete again before football season starts. They also assisted in the remodel of the old training room and washed all three chiller units and cooling tower.

**Graphic Arts:**

Crews worked on changing lights and ballasts that were out all over building. They also cleaned the chiller and machine rooms and changed filters.

**Lee Softball:**

Outside lights were converted to LED. We assisted Air Conditioning Services with the replacement of an EMI unit for the room behind the dugout and worked on lights and ballasts in the skyboxes. All condenser units were washed.

**Regal Soccer:**

All exterior lights were worked on and converted to LED. We restored restrooms from winterizing in the spring, changed ceiling tile and lights in building, and washed all condenser units for the upcoming season.

**Joan Croanan Volleyball:**

Some general maintenance issues needed to be addressed because it is a new facility. Crews also washed condenser units.

**Thornton Athletic:**

Crews replaced lights, ballasts, & ceiling tiles, and checked building equipment and cleaned the AHU coils on the units.

**Goodfriend Tennis:**

In preparing for tennis season, crews assisted Air Conditioning Services in changing a compressor for an AHU, cleaned condenser units, and changed lights to LED when needed.

**Boathouse:**

Interior and exterior lights were changed and converted to LED as need. Crews installed a new faucet in the kitchen and replaced the faucets for the washing machine water supply and also cleaned condenser units.

**Dabney Buehler:**

Some gutters needed to be repaired.

**Ayres Hall:**

Some roof issues needed to be repaired to prevent building intrusions.

**Walters Life Sciences:**

Some roof issues needed to be repaired to prevent building intrusions.

**South College:**

LED lighting was installed to save energy and improve efficiency.

**Alumni Memorial:**

Support was needed for many special orientation programs and events. Gutters were repaired to prevent building intrusion.

**Presidential Court:**

In the bakery, crews flushed out and straightened fins on the air handling unit coil, and repaired attachments and rebuilt big mixer. They also rebuilt the oven drive, changed belts, and repaired the pilot light and thermostat on oven #2. All air compressor and jammed shelves were repaired, and preventative maintenance for all equipment was done. The outside doors and water fountain also needed to be repaired.

The bakery needed all the curtains in the 3rd floor freezer and cooler replaced. Also on the 3rd floor, the ice cream machine, ice machine, and coffee maker were repaired, and the stained ceiling tile in the serving lines as well as the base and wall tile at tray return was replaced; the tray

return track in the dish room was also rebuilt. The pizza station needed its warmer box repaired, and new tea and coffee machines were installed. In the 3rd floor dishwasher, lime was removed from tanks & coils, the manifold was replaced, and we rebuilt the conveyor. All bad base boards and all gaskets on coolers & freezers on this floor were replaced, and all shelves were covered with star board.

On the 2nd floor crews repaired auto faucets in the restrooms. The flat top grill and lighting in the serving line at the Chop House needed repairs as well.

In receiving, crews also replaced all the cooler and freezer curtains and covered the freezer shelves. A pan leak on freezer #3 needed repairs, and the entrance floor tile was replaced as a result.

The walls and floor of the ice machine room were painted, and all ice machines and restroom faucets & flush valves in the basement were repaired. Crews unstopped a coil in the air handling unit.

Crews ran all lights in bakery, decorating room, 3rd floor food court, and outside on overhang from 2nd floor.

In the penthouse, all bearings on the big air handling unit were replaced. On the roof crews repaired the conduit and junction box, and 2EA exhaust fans were rebuilt. Preventive maintenance was also done on all exhaust fans, return air units, and air handling units.

In preparation for the beginning of school, crews mounted banners for Aramark, welded all broken carts, pumped out all grease traps, put new hoses on all hot well drains in serving lines, and cleaned all coils on coolers & freezers. Crews also replaced all bad wheels on grease caddies and bad pavers in side courtyard. Repairs were completed on grease pumps & fryer plumbing, latches on portable warmer boxes, all metal tray food racks & French fry slicers, and plumbing on Leslie water heater. Crews are continuing to take water samples on steam returns for the Steam Plant.

**Morrill Hall Café:**

Repairs were completed on the big exhaust fan on the roof, the chilled water valve on 3rd floor west, sneeze guards & hot wells in serving lines, tables and chairs, ovens in kitchen area, and the walk-in cooler door latch on 2nd floor. Preventative maintenance was done on the 2nd floor dish machine and all 3rd floor AHUs.

Replaced equipment included door gaskets on reach-in coolers and 2EA warmer boxes, garbage disposal in kitchen, stained ceiling tiles in dining area, and light fixture on the back dock. Crews also rebuilt small steam kettles and faucets in kitchen.

Crews installed 2EA new tea machines and a coffee machine on 2nd floor and new filters on ice machines. They also ran all the lights in the kitchen and dining areas.

**Mabel's Café:**

Repairs were completed on microwave door switches, glides on table and chairs, and dish machine leaks & pre-rinse. Gaskets on the reach-in cooler and bearings in kitchen AHU overhead needed to be replaced; crews also rewired the old range oven and replaced the thermostats. The ice machine was cleaned and serviced, the serving line drain was unstopped, and crews made parts to repair the old steamer & ran all lighting in the dining area and kitchen.

**Hess Hall - Dippers:**

Repairs were completed on the drain system in the beverage line, deep fryers, and AHU dampers. The ice machine and all cooler & freezer coils were cleaned, all GFIs in back line were replaced, a restrictor for the drain to the grease trap was installed, and we ran all lights in the store. The drain system on beverage line was also repaired.

**Arena Dining:**

Repairs were completed on the boiler, toaster oven, dishwasher, stock room shelving, basement AHU leak, main exhaust fan on side of the building, and the fan in the walk-in cooler. Crews also replaced all bad cooler & freezer gaskets, cleaned all cooler & freezer coils, removed lime from the steamer, and ran all lights in the dining area and kitchen. Preventative maintenance was done on AHUs and exhaust fans.

**A&A Einstein's:**

Crews repaired the big coffee maker and bagel oven, cleaned coils on all coolers & freezers, and ran all the lights in the store

**Fred Brown Subway:**

Repairs were completed on the turbo chef ovens and microwave. Crews also installed flow restrictors on sink drains for the grease trap, cleaned coils on coolers and freezers, and ran all lights in dining area and serving line.

**Fred Brown Twisted Taco:**

Crews cleaned all cooler & freezer coils, repaired the microwave & faucets, and ran all lighting.

**Greve POD store:**

The bad ceiling tile was replaced and sink faucets were rebuilt. Crews cleaned all cooler & freezer coils, ran all lighting, and completed preventative maintenance on AHU.

**Hodges Starbucks:**

Repairs were completed on lights and coffee machine, and we ran all the lighting after the dimmer switches were replaced. Crews also changed the filters on the water system and cleaned all cooler & freezer coils.

**Humanities POD store:**

The entrance door was repaired, stained ceiling tiles were replaced, all cooler & freezer coils were cleaned, and we ran all lighting.

**Student Union:**

Repairs were completed on the ice maker, microwave, and wok in Asian Jump. Crews also replaced lighting as needed.

**Haslam Einstein's:**

Repairs were completed on bagel oven and roll up gate. Crews also cleaned all cooler & freezer coils and ran the lighting.

**Anderson Training Center:**

Repairs were completed on leaking sink baskets, garbage disposal hot wells, walk-in cooler & freezer, and the storage room door. Crews also cleaned all ice machines and cooler & freezer coils and ran all lighting in kitchen and dining areas.

**Welcome Center:**

Repairs were completed in Aeon units, back entrance door, dishwasher, and urinal in the men's restroom. Crews also cleaned off the roof and all cooler & freezer coils and ran all lighting in the building.

**Vol Hall Southern Kitchen:**

Repairs were completed on dishwasher, water heater, AHU, and make-up air unit. In addition to assisting Air Conditioning Services with the AC unit, we also replaced an air curtain, cleaned all cooler & freezer coils, and ran all lighting.

**Vol Hall Quiznos:**

All cooler & freezer coils and the ice machine were cleaned. Crews also changed filters on AHU and ran all lighting

**Vol Hall Dunkin Donuts:**

Repairs were completed on cooler & coolatta machine, air and water filters were changed, and crews ran all the lighting.

**Vol Hall POD:**

Crews cleaned all cooler and freezer coils, changed AHU filters, and ran all lighting.

**Panda Express:**

Repairs were completed on exhaust fans, wok, sinks, and water fountain. Crews cleaned all ice machines and ran all lighting.

**Raising Cain's:**

Repairs were completed on cooler & exhaust fan. Crews also changed water filters and ran all lighting.

**Law College Side Bar:**

Crews ran all lighting and repaired the freezer.

**Clement POD:**

Electric outlets were repaired, cooler and freezer coils were cleaned, and crews ran all lighting.

**Temple Hall:**

Ceiling tile and grid in stairwell was replaced, and dry well drain and flex boot on humidity control for seed room were repaired.

**Music Building:**

Filters were changed, AHU strainers were cleaned, and all inside mag lock doors were repaired.

**McClung Tower:**

Crews have changed 500 ballasts and 1000 bulbs T-12 bulbs to T-8 bulbs. We also painted the exhaust fans on the roof, tightened loose parts on classroom chairs, and put sheet metal under fan cool units throughout the building.

**Clarence Brown Theatre:**

Crews replaced all emergency heaters in theatre and windows above ticket booth, rebuilt the exhaust fan and hot water pump, and cleaned the gutters.

**Art & Architecture:**

Repairs were completed on classroom lights & fan in Foundry Room, the garage door opener for the welding shop was replaced, and ductwork was cleaned.

**Andy Holt Tower:**

Crews changed the outside lights to LED and replaced the AHU motor in the computer room. We are still working on changing some bathroom floor tile.

**Student Aquatic Center:**

Repairs were completed on bad spots in concrete and outdoor pool deck as well as missing & broken floor tile. Crews also rebuilt the outdoor pool pump & motor and changed the pool filter bags.

**TRECS:**

Crews are currently finishing repairs on roof leaks.

**Communications:**

Crews re-piped heating and cooling units in room 446, changed out restroom faucets, and switched outside lighting to LED.

**McClung Museum:**

Repairs were completed on step lighting in auditorium and outside lights were changed to LED.

**Berry Hall:**

Lighting in bay area and basement, air compressor and supply lines, and the exhaust fan on the roof were all replaced. Crews also repainted the basement area and switched lights from T-12 to T-8 in addition to general building maintenance.

**Tickle:**

Crews replaced the oven in room 103 and the motor for AH #1. They also added an air dryer for main air systems, painted several machine rooms, cleaned all machine rooms daily, and completed general building maintenance.

**Estabrook:**

Broken window glass and several ceiling tiles were replaced, and lights were switched from T-12 to T-8. Crews also cleaned and replaced AC units in addition to general building maintenance.

**Pasqua Nuclear Engineering:**

Broken window glass, ceiling tile, and old rusted handrails in handicap restroom were replaced. Crews also un-stopped gutters and changed lights from T-12 to T-8.

**Biology Annex:**

Crews replaced the exhaust fan for fume hood, worked diligently on getting more air flow in room 10, and replaced all outside lighting with new LED lights.

**Dougherty Engineering:**

Broken window glass was replaced and lights were switched from T-12 to T-8 as they went out. All outside lighting was switched to LED. Crews also assisted a contractor on the 3rd & 6th floors while renovating labs and replacing roof. They are still working on getting all panel locks working properly.

**Perkins Hall:**

Several steam traps & valves, AC units, the inline booster fan in room 209, and AH motor in room 9 were all replaced. All outside lighting was switched to LED and some lights were changed from T-12 to T-8. We cleaned out gutters & downspouts, the tunnel, and several AC units. Crews assisted Danny Pritchard and contractors in removing old heat coil on AC unit in room 119 and other classroom renovations. They also changed the oil & filters for the generator.

**Ferris Hall:**

Contractors and roofers were assisted during classroom renovations. All machine rooms and AC units were cleaned, outside handrails were painted, oil and belts on air compressor were changed, and old T-12 lights were upgraded to T-8.

**Min Kao:**

Crews assisted Plumbing & Heating with the steam regulator, and the Glass Shop with repair of a leaking skylight. They also helped Lock & Key replace door hardware on 4th floor and helped Electrical reprogram Lutron lights. The motor and bearing on AH #1 were replaced, astragal strips were installed in all labs, and all machine rooms were cleaned.

**S.E.R.F:**

All outside lighting, including in switchgear yard, was changed to LED. Crews assisted in replacing chill water coil on AHU #4, roofers with roof repair, Air Conditioning Services with working on controls, and contractors with a new landscaping upgrade. The motor on RAF#1 and air separator in room 108 were both replaced. Crews adjusted sheaves and replaced motor for the fume hood in room 101M. They also removed honey combs from HRU units, installed a new eyewash line in room 331, and cleaned all chill water coils in AH units and reheat coils throughout the building

**General:**

Cooling towers at the chiller building and Clement Hall, all air handler coils, outside air vents, water heaters, and all strainers and socks on A/C systems were cleaned. Repairs were completed on many water leaks on domestic and chilled water lines as well as many outside lights in courtyards & rooftops. Pumps in North Carrick and Morrill halls and water heaters in all dorms were rebuilt, and all strainers and socks on A/C systems and belts were replaced as needed. Crews blew down all A/C stack risers in Reese, Morrill, and North Carrick halls.

Several training classes were conducted to work on A/C units and card swipes at Fred Brown. Crews prepared many times for all the conferences that came in all summer and fitted Morrill A/C units with bib hose. A new air compressor was installed at Humes Hall, and all filters and handlers in dorm rooms were changed.

Crews received daily door checks on School Dude that generate automatically every day and weekly, monthly, and yearly filter work orders that now generate automatically at Fred Brown Residence Hall. All drain pans and machine room floor drains were treated with chemical tabs, and we insulated steam lines and inspected equipment daily.

Fall Projects:

**Neyland Stadium:**

Crews will work the week and day of football games this fall. They are also working on upgrading lights to LED as needed.

**Regal Soccer:**

Exterior lights are being worked on and converted to LED.

**Goodfriend Tennis:**

Exterior lights are being worked on and converted to LED.

**Boathouse:**

Exterior lights are being worked on and converted to LED as needed.

**Campus wide:**

Crews are working on exterior lights and converting to LED and continuing to find new ways to reduce energy consumption.

**Hesler:**

Crews will refinish chiller building floor.

**Walters Life Sciences and Dabney Buehler:**

An energy saving lighting project is ongoing.

**General:**

Crews will rebuild and clean Leslies again in late fall. All filters will be checked again throughout the fall. Crews will clean all room return grilles in Clement Hall during fall break. Monthly tripple play for air handlers will continue. Work on ADA door closers and window installation will continue. Repair of steam blow-bys at Hess and Massey will be addressed, and we are further trying to improve PTAC repairs on the Zone Maintenance end. All crews will be very busy the next few months getting the students settled in.



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