

Operation Manager's Report
RMU Board of Public Works Meeting

Date of Report:
June 1, 2023

CURRENT WORK	
Location and Description	Timeline
Electric	
McCutchen Drive from 18th Street to Harvey Lane: Relocate existing overhead 34 kV sub-transmission and 12 kV overhead distribution and rebuild some overhead distribution.	In progress. Milestone: 34 kV energized on December 14, 2022.
18th Street from Forum Drive to Farrar Drive: System modifications as needed in conjunction with City sidewalk. Revisions include moving some existing overhead on south side of 18th Street to north side with other overhead lines instead of parallel systems on both sides of the street.	In progress
MO S&T General Services Building and Dangerous Materials Storage Building: Overhead and underground primary extensions, new transformer, and 2 metering connections for commercial development and emergency fire pumping equipment.	Completed
Tower Road Substation: Replacement of main breaker.	Breaker has been received. Will be installed when station is offline for other repairs.
Tower Road Substation: Failure in cubicle for circuit 1 on January 30, 2023. Replacement of conductors from substation to riser poles for circuits 1 and 3. Repairs as needed for cubicle for circuit 1.	In progress
Lions Club: 2 poles and 2 pole mounted transformers removed after windstorm on February 14, 2023. RMU primary electric, transformers and related infrastructure will be replaced at a later date.	Completed
Review of transformer sizing relative to customer loads for some larger transformer locations.	In progress May 2023: Downsized transformer serving 804 North Main Street
MO S&T East Substation: Extension of overhead 34.5 kV system and installation of new metering.	In progress
Alley west of Rolla St between 8th and 9th Streets: Reconfiguration to accommodate new multi-story residential housing unit.	In progress Milestone: New underground south of 9th Street is in service and existing transformer replaced.
North Elm Street from 14th Street to Bishop Avenue: Various adjustments as needed to accommodate street and sidewalk improvements.	Completed
Installation of conduits by means of horizontal directional drilling on Mercy Parkway (new roadway lighting), in Lions Club Park (replacement of primary electric), and McCutchen Drive (multiple distribution system changes).	Completed
1735 North Bishop (EV charging station): Underground primary extension, new transformer and metering.	Pending contractor work that has commenced.
814 South Bishop Avenue: Commercial redevelopment	Pending developer work
Sunny Drive: Installation of transformers and underground conductor to serve new residential housing units. Installation of roadway lighting also.	In progress
Generators: Installation of louvers over openings in containers to better retain heat in the units when not in operation.	Purchase order issued for installation at one unit.
Additional pole attachments by multiple companies expanding telecommunications infrastructure in Rolla. Additional attachments will involve hundreds of poles.	In progress

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Pole review for condition of poles owned by RMU and others to which RMU is attached.	In progress
Fiber	
Nagogami Substation to Nagogami Standpipe: Extension of fiber system to reduce reliance on radios.	In progress
9th Street Conversion - Phase 1 (9th and Rolla Street to 10th and State Street): Convert existing overhead to underground.	In progress
Installation of service to new MO S&T General Services Building	In progress
Water	
Holloway Street from Arkansas Avenue to 18th Street: Replacement of old water main with new 12" main.	In progress
Bardsley Road from 14th Street to 16th Street: Replacement of water main in conjunction with new residential development.	In progress
Service line adjustments for new sidewalk and street renovations: Elm Street from 14th Street to Bishop Avenue	Completed
East portion of Green Acres Drive: Replace service lines in advance of City street micropaving project.	In progress
7th Street from Holloway Street to Murry Lane: Replace service lines in advance of City resurfacing project.	In progress
18th Street between Farrar Drive and Forum Drive: Adjustments in conjunction with city sidewalk improvements.	In progress
Well #11: Replacement of line shaft pump system with submersible pump system along with upgrades to electric service and control equipment in the well house.	Completed
Hy Point Standpipe: Drain, washout, and review of interior coating system.	Completed
11th and State Street north and west to Highway 63: Fire flow and pressure considerations in vicinity of University improvements.	Ongoing discussions with University and consultants
Nagogami Pressure Zone: Consideration of water distribution system improvements to development area(s) north of I-44. Any improvements would likely utilize the \$2 million of funds allocated by Legislative Priority Projects by State of Missouri for water and wastewater improvements.	Engineering study to develop Preliminary Engineering Report is in progress
2022 Consumer Confidence Report	Preparation completed

AESTHETIC CHANGES THIS PERIOD	
East of Bishop Avenue north of 11th Street: Removal of multiple spans of overhead distribution along with poles, meters, and rental lights no longer needed since services have been eliminated.	Completed
Alley between 8th Street and 9th Street west of Rolla Street: Removal of 2 spans of overhead electric.	Completed
Forum Drive to McCutchen Drive: Removal of multiple spans of overhead sub-transmission and distribution poles, conductor, and related material.	Completed
18th Street west of Forum Drive: Removal of fire hydrant not needed that was in conflict with City sidewalk project.	Completed

FUTURE IDENTIFIED WORK	
Location and Description	Timeline
Electric, Water, and/or Fiber	
MO S&T Protoplex: New electric and water services for new development.	Review of Design Development plans and providing feedback to design team.
4017 HyPoint North: Building addition	Comments based on review of plans for permit have been provided. Pending response(s) from Owner and / or Consultant.
4000 Enterprise Drive (MO S&T): Requested additional transformer capacity and new service to existing building.	Pending work by University contractor
1000 North Oak Street: Electric and water service to new Planned Unit Development.	Plan review comments provided
3500 Enterprise Drive: New commercial development requiring new electric and water services.	Plan review comments provided
Rt. 66 Preferred RV Parking: Electric and water services to new development.	Pending communications from Developer
Main Street from 4th Street to 11th Street: System modifications as needed in conjunction with City street, sidewalk, and stormwater project.	Pending design information from City
Electric	
Aintree Road (East and West sides): Replacement of underground primary.	2023
Steeplechase Road (East side): Replacement of underground primary.	2023
Fox Creek Road (West side between Soest Road and Whitehall Road): Replacement of underground primary, including installation of new conduit.	2023
Rolla Senior Apartments (1101 McCutchen): Replacement of underground primary. Also converting to operate on 4kV system instead of 12kV system.	2023
100 block of Greentree Road: Convert some overhead primary to underground (including removal from poles owned by Brightspeed) as part of solution for new residential service on previously undeveloped lot.	2023
Ann Lee Estates (Ann Lee Drive located south of Lions Club Drive on South Rolla Street): New underground distribution as subdivision construction takes place.	To be constructed as development of the subdivision progresses.
9th Street Conversion - Phase 1 (9th and Rolla Street to 10th and State Street): Convert overhead electric distribution to underground.	2023
9th Street Conversion - Phase 2 (Elm Street to Rolla Street): Convert overhead electric distribution to underground.	2023/2024
11th Street from Oak Street to Rolla Street: Utilization of electric conduit system installed earlier.	2023 to 2024
Removal of overhead system: 11th Street from Bishop Avenue to State Street and State Street north of 11th Street	To be completed when University contractor no longer needs service to temporary job trailer.
Pine Street from 16th Street to Bishop Avenue: Reconfigure existing system to minimize amount of overhead distribution system in conjunction with City of Rolla street project.	2023 or later pending scheduling by others

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Pine Street from 12th Street to Bishop Avenue: New roadway lighting as part of City of Rolla street project. Grant application to request funds for this part of the project is being submitted by City.	Pending grant application review.
909 Facilities Avenue (MO S&T Temporary Research Facility): Revision to electric service to connect directly to RMU.	Pending information from University
500 South Bishop (WalMart): Owner initiated project to reconfigure from two electric services to one.	Pending information from Owner and Consultants
500 South Bishop (WalMart): Revise electric distribution system.	Pending improvements by customer
629 South Bishop: Revise electric service for commercial renovation.	Pending work by others so timeline is unknown.
4030 and/or 4040 HyPoint North: Electric service modification(s).	Comments based on review of plans for permit have been provided. Pending response(s) from Owner and / or Consultant.
3860 HyPoint Blvd: Conversion of electric service at request of owner.	Pending owner progress
2003 North Bishop: Upgrade of electric service as part of remodel / expansion.	Plan review comments provided
100 Fairgrounds Road: Conversion of electric service from 120/208 to 277/480 to allow for installation of EV charging	Pending work by contractor
Fairgrounds Road: Kingshighway to Gale Drive: Conversion of overhead distribution from 4 kV to 12 kV	Pending work by contractor for 100 Fairgrounds Road
MO S&T substations	Pending University work
RMU switchgear at Phelps Health	Undetermined
RMU switchgear at Hartmann USA	Undetermined
Net metering: Monitoring of testing and insurance requirements, review of applications, and installing new metering.	As needed
Water	
18th Street from Maxwell Street to Farrar Drive: Replacement of old water main.	Summer 2023
Eastwood Drive: Replacement of old water main.	As time allows
Elmwood Drive: Replacement of old water main.	As time allows
Sycamore Drive from Cypress Drive to Cedar Hill Court: Replacement of old water main.	Winter 2023/2024
Cedar Hill Court: Replacement of old water main.	Winter 2023/2024
Mimosa Court: Replacement of old water main.	Winter 2023/2024
10th Street from Main Street to Rolla Street: Replacement of old water main.	Summer 2023
Rolla Street from 10th Street to 11th Street: Replacement of old water main.	Summer 2023
10th Street from Main Street to State Street: Abandonment of old water main.	Summer 2023
Strobach Street, South Walker Avenue, and South Spillman Avenue: Replace water main and/or service lines as needed in conjunction with City street overlay project.	2023
7th Street: Holloway Street to Grandsir Avenue: Replace water main and/or service lines and/or adjust meter pit locations as needed in conjunction with City street and sidewalk project.	2023
South Olive Street: Replace water main and/or service lines as needed in advance of City street micropaving project.	2023

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Avon Court: Replacement of old water main.	As time allows
Lead Service Line inventory.	EPA deadline: October 16, 2024
Fiber	
9th Street Conversion - Phase 2 (Elm Street to Rolla Street): Convert existing overhead to underground.	2023/2024
Rolla Public Schools RTC building: Reconfigure RMU fiber going into and through the building.	2023
Fiber extensions requests for customers.	As requested

MISCELLANEOUS	
Asphalt Repairs (April 2023 invoice) for Water Distribution System Improvements (Turkey Run, Cypress, and Sycamore) (27,944 square feet). Total = \$97,804.00	
Asphalt Repairs (May 2023 invoice) for Electric Distribution System Improvements (9th to 10th Street between Main and Rolla Streets) (2,553.50 square feet). Total = \$8,867.25	
Repair of 1,000 kVA transformer that failed: Approved quote to move forward with the repair. Cost = \$26,725.00	
Well #11 pump replacement: Conversion of line shaft pump to submersible pump including replacement of well piping, motor, and pump. Total = \$126,493.00	