

**AURORA WATER CAPITAL PROJECTS UPDATE**

**MARCH 2024**

**PROJECTS UNDER CONSTRUCTION**

Listed by Ward(s) in which construction is occurring. "All" indicates the project benefits the entire system specified and work may be occurring outside the city limits.

	WARD	PROJECT NAME	DESCRIPTION	LOCATION	UTILITY	STATUS
1.	I	Sand Creek Water Reuse Facility Rehabilitation and Improvements	This project involves addressing high groundwater around the secondary clarifiers, rehabilitation of the second clarifiers, repurposing a generator and a unit process evaluation.	The work is located at the Sand Creek Water Reuse Facility.	Wastewater	Critical plant process equipment (blowers and secondary clarifiers) has been installed for the start of irrigation re-use production. The final major scope item remaining is the new generator commissioning and startup which is scheduled for early April. The old generator will be decommissioned soon thereafter. The contractor expects to complete cleanup and punchlist items by the end of June.
2.	I	2023 Water System Improvements Project	Water system improvements will occur at three locations within the city in 2023.	Work will occur on East 25th Avenue, from Havana to Peoria; Montview Boulevard, between Havana and Peoria; and East 11th Avenue, from Del Mar Parkway to Nome Street.	Water	Construction mobilization for East 25th Avenue is scheduled for April 15.
3.	I	Havana Park Pond and Del Mar Parkway	This project will design improvements to the detention pond located in Havana Park.	Havana Park is on Del Mar Parkway, between East 10th and East 11th avenues.	Stormwater	The contractor has begun making submittals and obtaining permits. No field work has started at this time.
4.	I, II	SC10 and SC11 Sanitary Sewer Upgrades Project	The project includes two of the identified "priority" capital improvement programs from the 2017 Wastewater Management Plan. The work includes replacing the existing manholes and sanitary sewer line with larger capacity pipes to meet existing and future needs.	Work will be completed from I-225 and East Colfax Avenue to the High Line Canal Trail.	Wastewater	Aurora Real Property and the contractor continue working on securing permanent and temporary easements for the project during the next eight months. Aurora Water is working on the License Agreement and the Memorandum of Understanding (MOU) for the alignment along the Highline Canal. Construction mobilization is planned for August. The pilot panting garden along the Highline Canal will be completed as a separate standalone project in the spring of 2025.
5.	I, V	SC2 and SC5 Sanitary Sewer Upgrades Project	This project includes two of the identified priority capital improvement programs from the 2017 Wastewater Management Plan. The work includes replacing the existing manholes and sanitary sewer line with larger capacity pipes to meet existing and future system needs.	Construction in Ward 1 will be located near Havana Street, from East Colfax Avenue to Jamaica Street. In Ward 5, construction will occur on East Quincy Avenue, near Smoky Hill Road, and on South Ouray Way.	Wastewater	Sanitary work was completed along the Del Mar Parkway and E. 13th Avenue segment and final roadway restoration is planned for May. The segment near 14th Avenue and Florence Street is planned for mobilization on April 15 and notifications are being prepared. Full mobilization to the segment starting on the west side of Colfax Avenue is planned for July.
6.	II	Buckley Space Force Base Vault Relocation	The city is adding an additional turn lane on East Mississippi Avenue into Buckley Air Force Base (BAFB) resulting in the need to relocate an existing meter vault and the associated SCADA panel.	Construction will occur at East Mississippi Avenue and Aspen Street.	Water	Work on site is complete. Staff are waiting on red lines from the engineering consultant.
7.	II	First Creek Interceptor Segments 1B, 1C and 1D	This work will involve the installation of 19,000 feet of 41" interceptor connected to the Second Creek Interceptor (Metro Wastewater Reclamation District (MWRD) project) to create a gravity path for wastewater to the MWRD Treatment Plant. Our First Creek and Prologis lift stations will become obsolete.	The interceptor will traverse multiple municipalities including the City and County of Denver. Segments 0 through 1E begin at Aurora's Prologis Lift Station and terminate at Denver's Gateway Lift Station.	Wastewater	Bid Package 1- Crew 1 and Crew 2 continue working on Argonne Street. Xcel Energy's relocation of the conflicting gas line is delaying construction. Bid Package 2- Tunnel Crew 1 has completed the tunnel for the Green Valley Ranch Boulevard crossing. Tunnel Crew 2 is working on the 56th Avenue crossing. Open Cut Crew 1 is working north of Green Valley Ranch Boulevard installing pipe and performing site clean up. They are preparing to connect to the Green Valley Ranch Boulevard tunnel. Open Cut Crew 2 is installing the cut-off wall west of Dunkirk.

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8.	II	Murphy Creek Rampart Delivery System (RDS) - Sand Creek Reuse System (SCRS) Interconnection and Delivery Vault	The project will evaluate and design an expansion of the Rampart Delivery System (RDS), including a turnout vault in Murphy Creek. Also, a connection between the RDS and the Sand Creek Reuse System will be evaluated for possible delivery of water along the reuse pipeline.	The project is focused at Murphy Creek.	Water	Submittal preparation and reviews are ongoing. The project remobilized in February and started the assembling of the pipe and valve appurtenances inside the vault and completed the tie-in to the golf's irrigation pipeline. Work will be put back on hold until May due to the delay in delivery of the butterfly valves. Once valves are received, the contractor will install the HVAC equipment, complete the reuse pipe tie-in, pressure tests, pipe coatings, and final site restoration. The antenna tower will be installed in June. The final electrical and instrumentation components will be installed and tested and final demolition of the old equipment will occur from October to December.
9.	II	36" Gun Club Pipeline (East 56th Avenue to East 64th Avenue)	This is the second phase of the 36" Gun Club Pipeline, which picks up at East 56th Avenue and continues north to East 64th Avenue.	This project extends from East 56th Avenue and Gun Club Road to East 64th Avenue.	Water	The majority of the pipeline installation is complete. Remaining work involves completing construction of the five vault structures on the pipeline, installation of appurtenances in those vaults, and the crossing of 56th Avenue. The 56th Avenue crossing will be accomplished with a weekend closure tentatively scheduled for mid-April. Final completion remains scheduled later in the year due to long lead time items for equipment.
10.	II	Zone 5 and Zone 4 Pressure Relief Valve (PRV)	In order to better maintain the transmission and distribution system, a PRV will be designed and installed on the 60-inch diameter steel pipeline along Jewell Avenue to control flow between pressure zones 4 and 5.	The work will be located at East Jewell Avenue and Powhaton Road.	Water	Submittal preparation and reviews are ongoing. Full mobilization is planned for May.
11.	III	2022 Pressure Relief Valve (PRV) Vault Improvements	This work will involved improvements to Pressure Relief Valves (PRV) and Air Relief Valves (ARV) in fifteen water vaults located throughout the city.	Work will occur on Potomac Street, just south of East 2nd Avenue.	Water	Site Acceptance Testing (SAT) is delayed until May due to electrical component delivery delays. The Pressure Release Valve (PRV) has been initiated for hydraulic operational mode.
12.	III	Aurora Eastern Utility Extension	This project will identify an alignment and secure utility easements for potable and non-potable transmission line extensions to northeast Aurora.	The project is located at East 26th Avenue, north of I-70, from Powhaton Road to Imboden Road.	Water and Wastewater	The pipe between I-70 and the railroad is being installed and is the final installation. The butterfly valve isolation vaults are being constructed with eight out of the 17 currently with walls ready for top cover. Staff anticipate that the project will be substantially complete by the end of June.
13.	III	Pond #3 at Conservatory on the Plains Rehabilitation	Constructed in 2005, this pond experiences issues with maintenance difficulties such as sediment build-up/poor access, low outfall functionality, low water quality, and is not built up to current MHFD standards. This project aims to address those issues.	You will find this project located at South Jericho Way and East Hampden Avenue.	Stormwater	The contractor has excavated most of the required removals from the site including the demolition of a portion of the existing infrastructure. Construction will begin on the first of three major outfalls into the pond area.
14.	V	Griswold Water Purification Facility (WPF) Filter Performance Improvements Project	The project includes engineering design of a program of filter rehabilitation including replacing existing backwash troughs with media retaining troughs, effluent valves, and flow meters.	Work will be located at the Griswold WPF.	Water	The programming for the filters was reviewed and approved by Aurora Water SCADA staff. The contractor completed the final programmable logic controller (PLC) panel work in preparation for the Site Acceptance Testing (SAT) activities that are scheduled for early April.

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15.	V	Griswold Solids Handling Improvements Project	The project includes engineering the design of new filter backwash recovery basins utilizing sand drying bed technology similar to the system recently constructed at the Wemlinger Water Purification Facility. The project also includes other backwash and filter waste improvements.	This project is located at the Griswold Water Purification Facility (WPF).	Water	The contractor continued working on the electrical and control wiring at the backwash recycle pump station. The installation of control systems at the basin outlet boxes and splitter box was completed. The painting subcontractor initiated the painting of the mechanical components in the pump station as well as blasting and painting of the wet wells in the pump station. The underdrain system for Basin No. 3 was installed and the contractor started pouring the concrete slabs for Basin No. 3.
16.	V	Griswold Water Purification Chlorine Dioxide Tank Replacement	Two existing chlorine dioxide tanks (3,200 gallon reinforced fiberglass) were installed during the 99/00 renovation. Both tanks are deteriorating and are needing replacement due to age. Multiple repairs have been made and the tanks can no longer be repaired.	Griswold Water Purification Facility	Water	The contractor received confirmation from the tank manufacturer that the expected shipment date for the tanks is early June.
17.	VI	Pump Station Miscellaneous Improvements - Work Package 3 (Aurora Pump Station Improvements)	This project includes general electrical and mechanical improvements to the Aurora Reservoir Pump Station. Improvements will be delivered using a Construction Manager/General Contractor (CM/GC) delivery method.	The Aurora Reservoir Pump Station is located on the north side of the Aurora Reservoir.	Water	The final control panel for the aeration system is scheduled for delivery in April. Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT) will be scheduled upon the fabricated panel arrival at the integrators location.
18.	VI	Senac Creek Interceptor (formerly called SEAM Interceptor)	This project involves the design of a new wastewater sewer interceptor. The sewer line will provide regional benefits for development in the area, allow for the retirement of the Senac Creek lift station, and eliminate the need for two future lift stations.	The future SEAM facility will be located on city property between Baldwin and Senac Creeks, north of East Quincy Avenue and east of South Gun Club Road.	Wastewater	Open Cut Crew 1 and 2 are working south of Jewell Avenue. Open Cut Crew 3 is performing clearing and grubbing work south of Quincy. Tunnel crew 1 is completing the tunnel under the Prairie Water Pipeline (PWP) waterlines and mobilizing north to the East Cherry Creek Valley (ECCV) tunnel crossing. Tunnel Crew 2 is working at the high pressure gas line crossings.
19.	VI	Piney Creek Lift Station Repairs	This project will involve an assessment of the existing lift station to address odor control, perimeter fencing as well as heaving and cracking concrete supports.	The work will occur at Piney Creek Lift Station.	Wastewater	Punchlist items are complete. Final completion will be issued as soon as the Programmable Logic Controller (PLC) and variable frequency drive (VFD) are delivered.
20.	VI	Binney Water Purification Facility (WPF) Hydrogen Peroxide Tank Replacement	The existing aluminum hydrogen peroxide storage tanks have corroded to a point that a hole has been found. Several options were considered and it was decided to replace the two existing aluminum tanks with two polypropylene tanks.	The project is located at the Binney Water Purification Facility	Water	Installation of the tanks is complete. The project is being closed out. <b>THIS PROJECT WILL BE REMOVED FROM THE SPREADSHEET NEXT MONTH.</b>
21.	VI	Binney Water Purification Facility (WPF) Flocculation Sedimentation Basin Structure	The existing flocculation and sedimentation basins at the facility are currently uncovered, which has lead to water quality issues (primarily algae growth) and leaves them subject to extreme weather events. A new structure will be built over the basins.	The project is located at the Binney WPF.	Water	A contract has been awarded to construct the proposed building over the existing flocculation and sedimentation basins. The material submittals process is ongoing. The contractor is currently installing the steel framework for the building. Installation of the precast concrete panels has begun.
22.	VI	Binney WPF Ultraviolet Advanced Oxidation Process (UVAOP) Clean-In-Place System Phase 2 Design	This project includes expanding the UVAOP clean-in-place system to the remaining South Train UV Units	Binney Water Purification Facility.	Water	A contractor has been awarded the contract to expand the existing UVAOP clean-in-place system. The contractor is working on submittals with construction anticipated to begin in April.

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23.	VI	Piney Creek Lift Station Power Improvements	This project will replace a temporary fix with a permanent solution that will allow the emergency generator to run reliably.	East Ottawa Drive near Piney Creek and East Arapahoe Road west of C470.	Wastewater	The contract was finalized and a Notice to Proceed has been issued. A pre-construction meeting was held March 12 and the contractor has begun permitting and submittals.
24.	VI	East Quincy Avenue Water Line Appurtenances Rehabilitation	The project's scope of work involves the design and installation of recommended improvements to restore operational confidence in the nineteen (19) ARVs on the 60-inch, and fourteen (14) ARVs on the 42-inch pipelines in East Quincy Avenue.	Work will occur on East Quincy Avenue between Quincy Reservoir and the Binney Water Purification Facility.	Water	The project is near completion.
25.	All	Strontia Springs PRV Station Improvements	The work will include improvements to the Programmable Logic Controller (PLC), the roof, safety items, the power feed and the generator.	The project is located at Strontia Springs Reservoir.	Water	Fiber Work Change Directive (WCD) pricing is in negotiations. (This WCD includes the necessary fiber work at the Strontia site as well as the Denver Water Foothills Treatment Plant.) SCADA electrical completion is now projected for April 2025 (due to Programmable Logic Controller (PLC) and component delivery delays). The PLC submittal has been processed. A new Lenel panel will be eliminated due to limitations for communications at the site.
26.	All	North Campus Well Field Expansion - Former Thornton Property	This project entails increasing the capacity of the North Campus Well Field through the installation of six additional groundwater production wells on property located immediately north of the existing well field.	The North Campus Well Field is located in Weld County along the South Platte River, between Fort Lupton and Brighton.	Water	The Programmable Logic Controller (PLC) cabinet minor scope item will be completed by early April. After a few minor punchlist items, final completion is anticipated by mid-April. Some paperwork and as-builts are still being processed.
27.	All	Rampart 54" Pre-Cast Concrete Pipe (PCCP) Sliplining - Phase 2	This is Phase 2 of the Rampart PCCP Sliplining program. This phase of the project will begin where the Rampart PCCP pipeline crosses under Interstate 25. This phase will terminate approximately 1,500 feet northeast of I-25, near DTC Parkway.	The work will be located along the Rampart pipeline alignment, within the Denver Tech Center.	Water	Sliplining work is complete and the contractor is restoring the sites as needed. An isolation valve was stuck and required a couple of days to get open, but the system is now back in operation. The contractor is working to complete the repair of the blow off valve at the Holly Pump Station.
28.	All	North Campus Horizontal Wells Pilot Project	This project involves the identification and field evaluation of alternate groundwater production well designs for the North Campus Well Field.	The North Campus Well Field is located in Weld County along the South Platte River, between Fort Lupton and Brighton.	Water	Lateral drilling has completed a third lateral to 115 feet from the caisson. Screens have been installed in this lateral. The micro tunneling sub has mobilized to the site with both secant pile shafts ready for tunneling under the river. The start of microtunneling is anticipated in early April.
29.	All	North Campus Electrical Phase II	This project involves the design and construction of 17 electrical panels to replace the currently outdated panels installed in the riverbank filtration wellfield.	North Campus Riverbank Filtration Field.	Water	The Factory Acceptance Test (FAT) of the first half of the panels is complete. Construction of the second half will be complete by mid-April, then the FAT of those panels will occur.

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**PROJECTS UNDER DESIGN**

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	WARD	PROJECT NAME	DESCRIPTION	LOCATION		STATUS
30.	I	Stanley Marketplace Water Quality Pond	This project involves the construction of a water quality pond west of the newly redeveloped Stanley Marketplace. The pond will be located west of the new parking lot.	The project is located northwest of East 23rd Avenue and Dallas Street.	Stormwater	Work continues on easements and parking changes while the plan set is in AMANDA for review.
31.	I, II	2024 Water System Improvement Project	Water system improvements are proposed at three locations within the city.	Portions of: Burns/Lydeva, Aurora Hills/Queensborough and Zurcher subdivisions, and Montview Boulevard (Peoria to Fitzsimmons Parkway).	Water	The first construction package (Zurcher, Lydeva and Alvarado subdivisions) has a prebid meeting scheduled for April. The second package (Hoffman Boulevard, Sable and Altura subdivisions) is at 90% design.
32.	I,II,III,IV,V I	2025 Water System Improvement Project	Water system improvements are proposed at eight locations within the city.	The eight locations are: Peoria and Exposition, 11th Avenue and Laredo, 6th Avenue and Peoria, Colfax and Peoria, Colfax and Potomac, Eastridge Subdivision, Summer Valley Subdivision, Alameda and Lima Street.	Water	Scope, fee and schedule are being prepped for review.
33.	I, V	Manhole Restoration Project	This project will involve the inspection and/or rehabilitation of 12 manholes throughout Aurora.	Five manholes and located on East 19th Avenue between Florence Street and the alley after Elmira Street. One is located on Galena Street between Colfax Avenue and Del Mar Parkway. Two are located on 13th Avenue between Kingston Street and Joliet Street in front of the Kenton Elementary School. Two are located next to Tollgate Creek near the intersection of East 4th Avenue and Sable Boulevard.	Wastewater	One manhole got a waiver to avoid full replacement and the remaining manholes should be out of civil review shortly.
34.	II	Wagner Concrete Channel Rehabilitation	This project will begin the process of rehabilitating concrete channels in Aurora that were identified as needing repair work in a 2021 study. Specifically the Wagner Concrete Channel.	Work will take place at Tower Road and 22nd Avenue.	All	As-builts, existing conditions survey, and GIS map information is being reviewed by the design team. Borings are scheduled for early April to investigate subsurface conditions to inform the repair design.
35.	II	ACRE Box Elder Aquifer Storage and Recovery (ASR) Pilot Facility	The project will commission a pilot ASR facility in northeast Aurora.	Look for this project near East 26th Avenue and the Watkins-ACRE property.	Water	The Geochemical Water Quality Analysis and Modeling has been added to the current work scope with a report due in May.
36.	II	First Creek Interceptor (FCI) Gravity System Tie-in	This project will design and consolidate the tasks needed to switch over to the First Creek and Second Creek gravity sewer lines.	Prologis Lift Station, First Creek LS and Second Creek LS.	All	A statement of qualifications is underway. The second submittal for civil plans review has been submitted.
37.	II	Picadilly Road Storm Sewer Improvements	A storm pipe is planned from Smith Road to an outfall at First Creek. The interchange at I-70 and Picadilly Road is currently being designed by Public Works. A future expansion of Picadilly Road both require the outfall for storm runoff.	Picadilly Road between Smith Road and First Creek.	Stormwater	The alternatives analysis has been submitted for staff review. Staff plans to select a preferred alternative in April.

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38.	II	Eagle Ridge Utility Protection Project	There is existing sanitary sewer and reclaimed pipelines along the southern boundary of the property. The project will entail bank stabilization to protect the existing Aurora Water utilities and the Parks, Recreation and Open Space Department (PROS) property.	Picadilly Road and East Stephen D. Hogan Parkway.	All	The request for proposal will be drafted in April.
39.	II	Prologis Lift Station Decommissioning	The First Creek sanitary basin will convey flows by gravity to Metro's northern treatment plant. The Prologis Lift Station is slated to be taken offline in the summer. This project will be the next phase to demolish the obsolete of the lift station.	Smith Road and E470	Wastewater	A site visit with the engineer was complete. The scope of work from the consultant is under review.
40.	II, IV, V	2024 Miscellaneous Storm Sewer Improvements	This project will design and construct repairs for the deteriorating storm pipes in four locations throughout the city.	Multiple points around the city to include Colfax Avenue and Dunkirk Street; Colfax Avenue and Jasper Street; Mansfield Avenue and Tower Road, and Havana Street and Idaho Place.	Stormwater	Bid package 1 is on schedule to advertise in late April. Bid package 2, Tower Road crossing near Mansfield Avenue, is being evaluated for alternatives. Staff is considering options to remove and replace or to rehabilitate the existing pipe.
41.	III	WC-06 - Alameda Stormwater Outfall Improvements. WC-16 - Dakota Tributary Improvements (Westerly Creek Studies & Storm Improvements)	This work will involve storm sewer outfall and tributary improvements.	Alameda Avenue (Havana to Exposition Park) and Dakota Avenue (Moline Street to Exposition Park).	Stormwater	The Virginia Drive storm improvements are proceeding to 60% design. Priority is set on designing Alameda and Havana flood warning signs.
42.	III	Murphy Creek Drainageway Improvements and Irrigation Pond	This project will make improvements to the Murphy Creek Drainageway and reroute Gun Club Creek around the existing irrigation pond.	Work will be located at Murphy Creek and Jewell Avenue.	Stormwater	The engineer is preparing 60% design documents.
43.	V	Wemlinger Pressure Relief Valve (PRV) Vault Lid Replacement	The project will replace the PRV vault lid in Wemlinger parking lot to improve operation and maintenance (O&M) accessibility.	Wemlinger Water Purification Facility (WPF)	Water	A site walk was conducted and project requirements were drafted. A project requirements meeting is anticipated in April. Request for proposal will also be drafted in April.
44.	V	Griswold Water Purification Facility HVAC Improvements Design Project	The scope of work for this project includes the design for upgrading existing HVAC equipment to include: chiller system, boiler system, air handling units, various heating and cooling improvements, ventilation improvements, and digital controls.	Griswold Water Purification Facility	All	City staff worked with two contractors to obtain bids for a single source contract. The bids are currently being reviewed.
45.	VI	Quincy Reservoir Phase I Best Management Practices - Hydroponics and Littoral Zone	This work will involve the design and construction of improvements as recommended in the Hazen and Sawyer report dated April 2021, including hydroponic systems and littoral zone restoration.	The project is located at East Quincy Avenue and West Toll Gate Creek.	Water	The status of this project continues to evolve. It is still on hold and the future scope is unknown. Staff will evaluate the findings of the ongoing master plan and re-evaluate the scope and priority for this project at a future date.
46.	VI	Quincy Pump Station Improvements	A conditions assessment, preliminary design and final design will establish improvements to correct building deficiencies and provide reliable and efficient operation of the Quincy Pump Station.	Quincy Pump Station is located at the base of Quincy Reservoir on East Quincy Avenue.	Water	The consultant is addressing comments and preparing the bid set. Staff plan to advertise for bid in May.

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47.	VI	Binney Water Purification Facility (WPF) Backup Power Generation Improvements Project	This project entails the design and subsequent construction of a new backup power generation system at the Binney WPF. The new system will correct deficiencies and issues associated with the existing system, and increase system capacity.	The project is located at the Binney WPF.	Water	Workshops were completed for the preparation of the proposed Technical Design Memo. Load and condition testing of the existing generators was completed. The design engineer prepared the Technical Design Memo. A workshop was held with upper management, and it was determined to only upgrade the PLC and generator controls at this time. The design engineer is working toward 30% design drawings.
48.	VI	Wemlinger WPF Motor Control Center and Communication Improvements	The project will assess the motor control centers (MCC's) and determine the schedule needed for replacement, as many are reaching the end of their useful lives. The project also includes communication improvements needed for life safety (fire department) and water Operations (Grace Man Down) safety.	The work will be located at East Quincy Avenue at Buckley Road.	Water	The engineer continued developing the 30% electrical system design and basis of the design report. City staff drafted a statement of qualifications (SOQ) document for the purpose of pre-qualifying electrical contractors.
49.	VI	Wemlinger WPF Filter Rehabilitation (Filter No. 2 and 12)	This project involves rehabilitating filter no. 2 and 12 which includes replacing the underdrain system and valve, transmitter, and instrumentation replacement due to the age of the equipment.	This project is located at the Wemlinger Water Purification Facility.	Water	The contractor completed the removal and disposal of the filter media from Filters 2 and 12 and initiated removal of the filter underdrain caps.
50.	VI	Piney Creek Lift Station Air Release Valve Road Regrading Project	The project includes regrading a sloped portion of a maintenance access road to eliminate safety concerns associated with the occurrence of large maintenance trucks sliding off the road.	You will find this project at Smokey Hill Road and E-470.	Wastewater	Civil plans review comments were received and the engineer began addressing comments.
51.	VI	Kings Pointe Interceptor	Design and construct Schedule B of the proposed interceptor between Kings Pointe and Cherry Creek Lift Station #15.	The work is to take place near Parker Road and Broncos Parkway.	Wastewater	Work on the 60% design will be delayed several weeks as Arapahoe County Water and Wastewater Authority (ACWWA) continue to research conflicting information in their flow data projections. The size of the pipe selected is critical and warrants due diligence to ensure the proper capacity is taken into account.
52.	VI	Binney WPF Granular Activated Carbon (GAC) Expansion and Media Purchase	Design of the mechanical components required to complete adsorbers 4, 7 & 8. Also to be determined if the media to be utilized in these adsorbers will be GAC similar to the other 5 adsorbers.	Binney Water Purification Facility.	Water	Specifications and 100% design drawings are complete. A Statement of Qualifications (SOQ) has been completed and the bid package is being prepared. The project will bid in April.
53.	VI	Zone 5 Tank and Zone 7 Pump Station	To provide redundancy to the Zone 5 area of Prairie Point and Zone 7/8 redundancy.	Located near Liberty Middle School.	Water	The consultant is working on model updates and pump sizing. A modeling meeting is scheduled for mid-April to discuss flow scenarios with the team. Thirty percent design deliverable is expected in April.



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54.	VI 	Sampson Gulch Detention Basin Sediment Removal	To perform detention basin maintenance by removing the sediment from the basin bottom and forebays, and making modifications to the outlet structure to improve safety and facilitate future maintenance.	S. Aurora Parkway and S. Coolidge Way	Stormwater	A meeting was held with the Mile High Flood District (MHFD) to discuss the proposed project. MHFD is preparing an Intergovernmental Agreement (IGA) and choosing a design engineer for the project. The project schedule is design this year and construction in the fall of this year or early in 2025 to avoid flood season.
55.	VI 	High Plains Lift Station - Potable Water Supply	A potable water supply is needed for maintenance operation.	Smoky Hill and Monaghan	Water	A consultant is scheduled to perform investigative survey and geotech work to determine alignment of potable water supply to the station.
56.	VI	Binney Water Purification Facility (WPF) Forebay and Drying Bed Liner Investigation and Improvements	The existing bentonite liner above the water surface on all of the sand drying beds and the forebay are showing signs of failure and degradation. This project will investigate the issue behind the degradation and recommend solutions(s).	The project is located at the Binney WPF.	Water	The engineer is working on the 95% design by early April.
57.	I,II,IV,V,VI	2024 PRV Vault Improvement Project	Rehabilitation of PRV Vaults that need to be proactively updated to provide upgraded vaults for safer access and improved asset function.	Peakview and Arapahoe; 1390 S. Potomac Street; 32nd and 34th (PRV03D-03); 32nd and Helena; Peoria and Parker; 15000 Smith Road; 4201 S. Parker Road; Hampden and Conservatory; 6th and Elkhart; 8th and Chambers; 28th and Sable; Iliff and Vaughn; Dunkirk and Louisiana.	Water	The Civil Review is in the second stage. The Environmental Protection Agency (EPA) grant funding process will delay the bid into the fall.
58.	All	Wild Horse Reservoir	This project involves the development of a new storage reservoir for the Homestake pipeline.	Wild Horse Reservoir will be located just south of Hartsel, Colorado, off Highway 9. County Road 53 borders the south property line.	Water	Work continued on the 30% design. Staff are waiting for lab results in order to complete the analysis for the dams. The hydrology report was submitted to the State Engineering Office (SEO) - Dam Safety. Minor comments were received and are being addressed. A second round of interviews were held for the Construction Manager/General Contractor (CM/GC). Staff are working on the scope of work and fees for this year's work.
59.	All	Rampart 54" Pre-Cast Concrete Pipe (PCCP) Sliplining - Phase 3	Phase 3 will be the final phase of the Rampart 54" PCCP Sliplining Program. The project will begin where Phase 2 ended, near DTC Boulevard. It will continue northeast approximately 1,500 feet to Intertie 3.	The work will be located along the Rampart pipeline alignment, within the Denver Tech Center.	Water	Documents and drawings are currently being reviewed. Phase 3 of the sliplining program will be delayed until the winter of 2025 due to the Binney Water Purification Facility being taken off line this coming winter.
60.	All	2023 PRV, ARV and Large Valve Vault Rehabilitation Project	Engineering/Design services will entail evaluation and design of 6 PRV Vaults, 9 water transmission valves (16" to 30" size), and 11 ARV Vaults. The overall purpose of this project will be to design for the rehabilitation, replacement or relocation.	6th Avenue and Chambers; 6th Avenue and Potomac; Mississippi and Moline; 6th Avenue and Shawnee; Sable and Alameda; 19th/Gun Club Road; Del Mar and Peoria; Mississippi Avenue and Peoria; Princeton and Reservoir; 13th and Peoria; 13th and Chambers; Colfax and Peoria; Montview and Peoria; Louisiana and South Biscay Street.	Water	A Notice to Proceed was issued in late March. Submittal reviews are in process.
61.	All	Rampart Delivery System Expansion, Phase 1A	New 72" diameter steel pipe with new connection at the Rampart Reservoir and Intertie 1. Expansion of the existing Rampart Delivery System.	Located outside of the city limits in Englewood and Centennial.	Water	Staff are currently negotiating with the consultant on the scope, fee and schedule for the design of the project. Design is anticipated to continue into early 2025 with construction also beginning in early 2025.



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**STUDIES AND ASSESSMENTS**

Listed by Ward(s) in which construction is occurring. "All" indicates the project benefits the entire system specified and work may be occurring outside the city limits.

	WARD	PROJECT NAME	DESCRIPTION	LOCATION		STATUS
62.	VI	Groundwater Selenium Removal Study for Binney Water Purification Facility (WPF).	This project will examine the use and treatment of groundwater with excessive quantities of selenium that must be removed/treated before use/discharge.	The project is located at the Binney WPF.	Water	A consultant has been selected to prepare a study to determine a scenario when using the Binney facility can reduce the selenium in the underdrain discharge to meet permitted levels set by the Colorado Department of Public Health and Environment (CDPHE). They are also evaluating how the proposed treatment plan will affect the facility's treatment train. Groundwater sampling is being performed to obtain data for the design.
63.	All	Sand Creek Water Reclamation Facility Reclaimed Pipeline to Prairie Waters Pump Station 3	This study will connect the Sand Creek WRF reclaimed water network with the Prairie Waters raw water pipeline via conveyance Pump Station #3.	The study will be performed at the Sand Creek WRF distribution network to Prairie Waters Pump Station #3.	Water	The project is temporarily on hold until the Direct Potable Reuse Evaluation Project is further along and can inform this pipeline design. Easements are being secured for the pipeline.
64.	All	Direct Potable Reuse Application and Water Treatment Master Plan	Study to complete the Direct Potable Reuse Application to Colorado Department of Public Health and Education (CDPHE) and complete a water treatment master plan.	Various	Water	Workshops continued on the Direct Potable Reuse (DPR) and the Water Treatment Master Plan (WTMP). Staff continued coordination with internal and external stakeholders. The final workshop for the WTMP was completed and the capital projects list has been assembled and input provided for budgeting purposes. The final WTMP report is due by the end of May. The DPR treatment alternatives have been shortlisted and are being evaluated. The National Water Research Institute (NWRI) panel has begun. The DPR treatment piloting scope is being developed.