ELECTRIC PRODUCTION

FY27: Abiquiu Wicket Gate Hydraulic Servo Motor Replacement

Project Scope: The hydroelectric plan in Abiquiu, NM. has two identical 6.9MW turbine/generators that were installed in 1987 and manufactured by ORENCO (Chinese). Each unit has 2 servos per turbine that operate the wicket gates. Los Alamos County had all four servos rehabilitated approximately 10 years ago. The servos are leaking hydraulic oil again and will be replaced. Four new servos will be purchased in FY26'. These funds will be applied to the installation in FY27'.

Budget: $200,000

Schedule: Winter FY27'

ELECTRIC DISTRIBUTION

FY27: URD (UG Residential Distribution) Replacements

Project Scope: The underground system contains 1970s infrastructure, which was direct-buried and in direct contact with the earth. Portions or segments of the underground system that have experienced 3 or more failures are targeted for replacement because they will fail again. Areas to be included are:

White Rock: Aragon, Ridgecrest, Garver, and Catherine

Budget: $ 1,500,000
Schedule: Year-round design and construction

ELECTRIC DISTRIBUTION
FY27: Overhead System Replacement

Project Scope: Many components of the utilities' overhead infrastructure operate near or past their useful life, greater than 50 years. The department's Asset Management Program (AMP) prioritizes O&M projects on (a) root cause analysis after power outages, (b) quarterly line patrols, and (c) year-end assessments. The O&M program includes replacement of power poles, cross-arms, and revamps (wire & transformer upgrades).

Townsite & White Rock:	$450,000

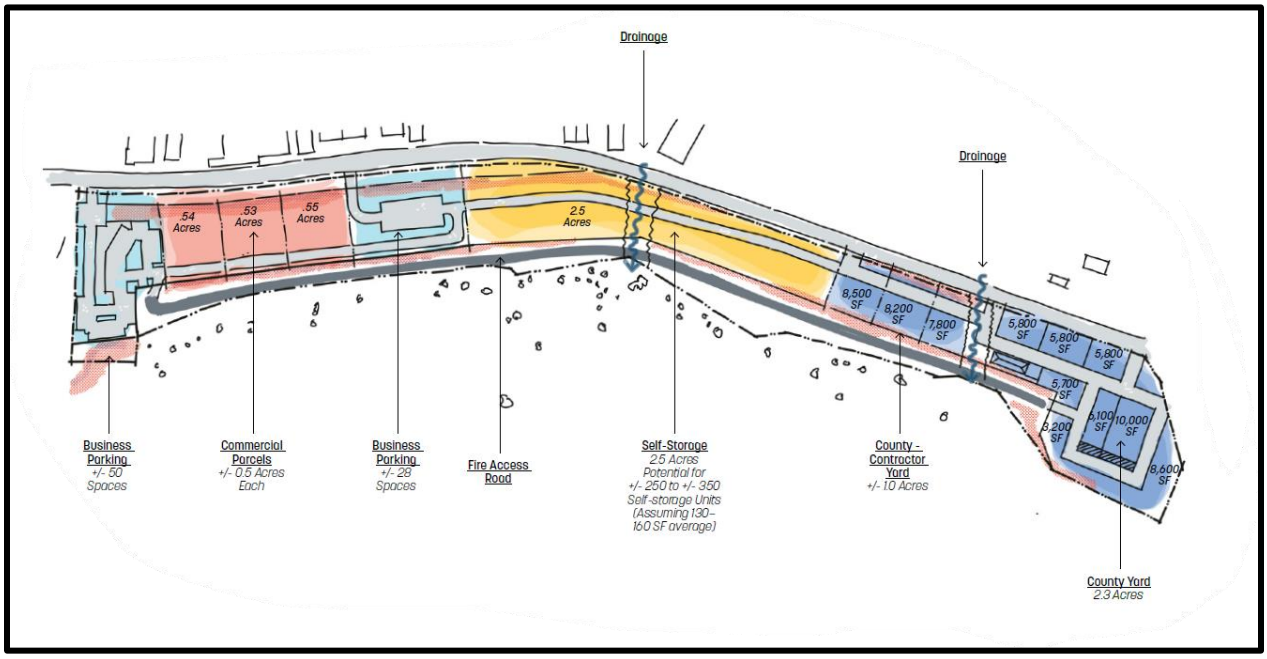
Budget: $ 450,000
Schedule: Year-round design and construction

ELECTRIC DISTRIBUTION
GAS DISTRIBUTION
WATER DISTRIBUTION
WATER PRODUCTION
WASTEWATER COLLECTION

FY27: DP Road Staging Area

Project Scope: Due to limited available space in the Los Alamos townsite during active construction, this project will establish a properly sized staging area primarily for DPU and Public Works field crews. The staging area will also provide contractors with a dedicated, fenced location to safely store equipment and materials while performing work for Los Alamos County. Project costs will be shared between DPU, the participating departments, and Public Works field crews.

Budget: $ 35,000/EA ($175,000 Total)
Schedule: Summer FY27'



ELECTRIC DISTRIBUTION
FY27: East Gate Substation Design

Project Scope: The need for a new electric substation in Los Alamos County was identified in the Los Alamos County Electrification Study (2025). Consultants found that a new "Eastgate Substation" would be needed to serve increased demand from electric vehicles and building electrification over the next 30 years. The U.S. Department of Energy's Electrical Power Capacity Upgrade (EPCU) Environmental Assessment also identified the need for broader electrical infrastructure upgrades by 2027 to meet Los Alamos National Laboratory's operational needs and provide redundancy.

Budget: $ 500,000
Schedule: Spring FY27’

GAS DISTRIBUTION

FY27 & FY28: Pipeline Repair & Replacement / Equipment

Project Scope: These funds will be used for miscellaneous system improvements throughout the year. The nature of work includes leak repairs, pressure regulating station improvements, valve replacements, and other unforeseen occurrences that occur throughout the year and require contractor support.

Budget:	FY27'	$100,000
	FY28'	$ 110,000

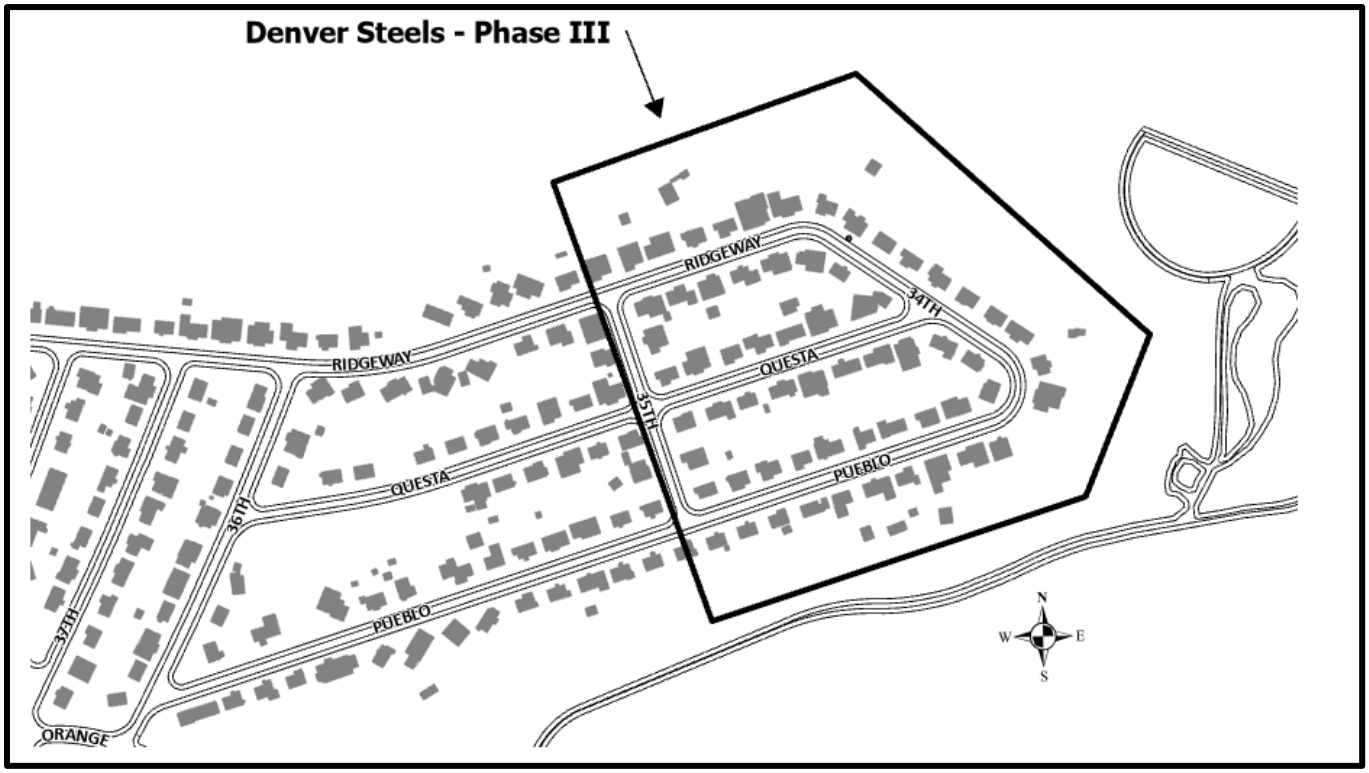
Schedule: All year

WATER DISTRIBUTION
WASTEWATER COLLECTION
FY27: Denver Steels Phase III (Public Works Road Project)

Project Scope: This project will be a joint project between DPU and the Public Works Department to re-pave the roadway and replace utility infrastructure beneath the new road. The project will be in the Denver Steels Neighborhood. The remaining 1950's vintage section of waterlines will be replaced. Clay sewer lines that cross the roads will also be replaced. The water distribution portion of the project will be funded by Drinking Water State Revolving Loan (DWSRL).

Budget:	Phase III FY27' Water Distribution (DWSRL)	$ 1,200,000
	Phase III FY27' Wastewater Collection	$ 150,000

Schedule: Phase III Summer FY27'



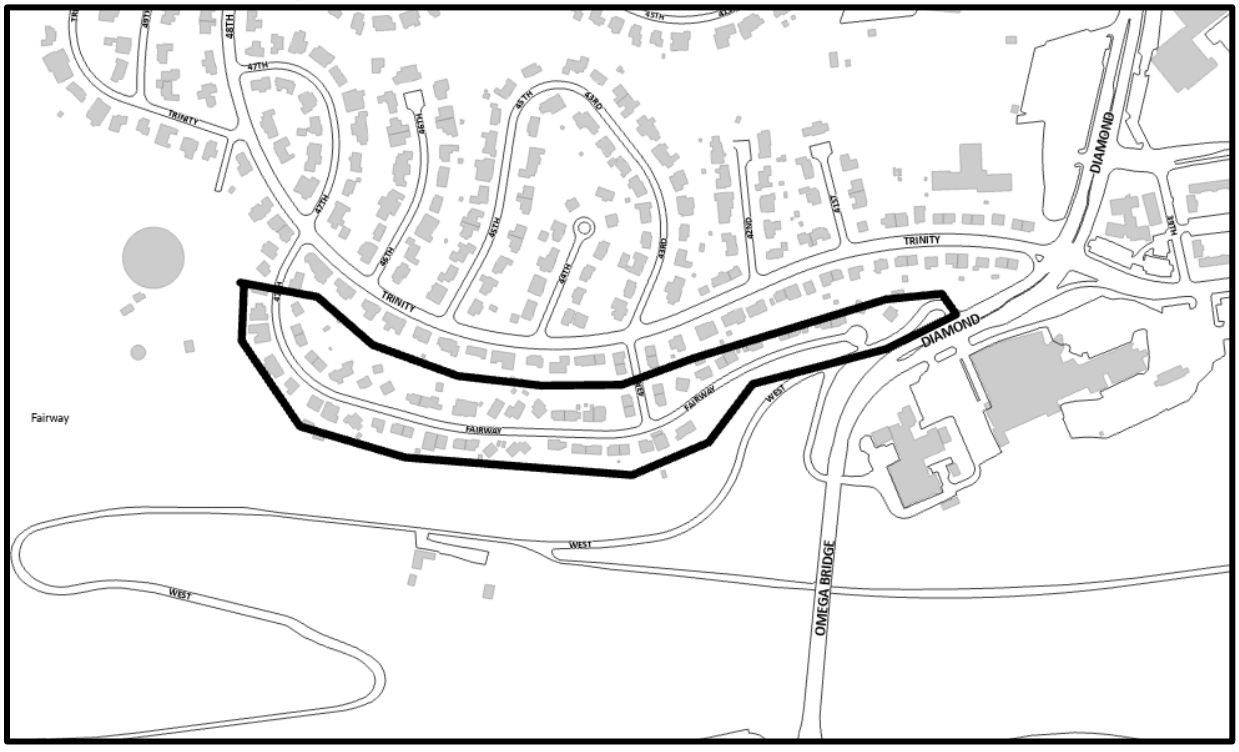
WATER DISTRIBUTION (PROFIT TRANSFER)
WASTEWATER COLLECTION
FY27: Fairway (Public Works Road Project)

Project Scope: This project will be a joint project between DPU and the Public Works Department to re-pave the roadway and replace utility infrastructure. The project will be on Fairway in the Western Area of Los Alamos that contains vintage sections of waterlines. The aged cast iron waterlines will be replaced with new ductile iron pipes along with replacing segments of vitrified clay sewer lines that have reoccurring problems prior to roadway being paved. The water distribution portion of the project will be funded by profit transfer monies allocated to the DPU by the County Council.

Budget:	Water Distribution (Profit Transfer)	$ 900,000
	Wastewater Collection	$ 800,000
		$1,700,000

Schedule: Summer FY27'

Fairway



WATER PRODUCTION
FY27: Repaint Pajarito Tank 4A

Project Scope: The Pajarito Tank 4A is a 4-million-gallon tank. It was constructed in 1982 and is located on Anchor Ranch Road on LANL Property that serves Los Alamos National Laboratory. The tank coating has deteriorated over the years, and the tank is in need of repainting. The tank interior and exterior will have some repairs and then be re-painted. The new paint will protect the tank for the next thirty years.

Budget: $1,600,000 (WTB $1,280 / CIP $320,000)

Schedule: Fall FY27'

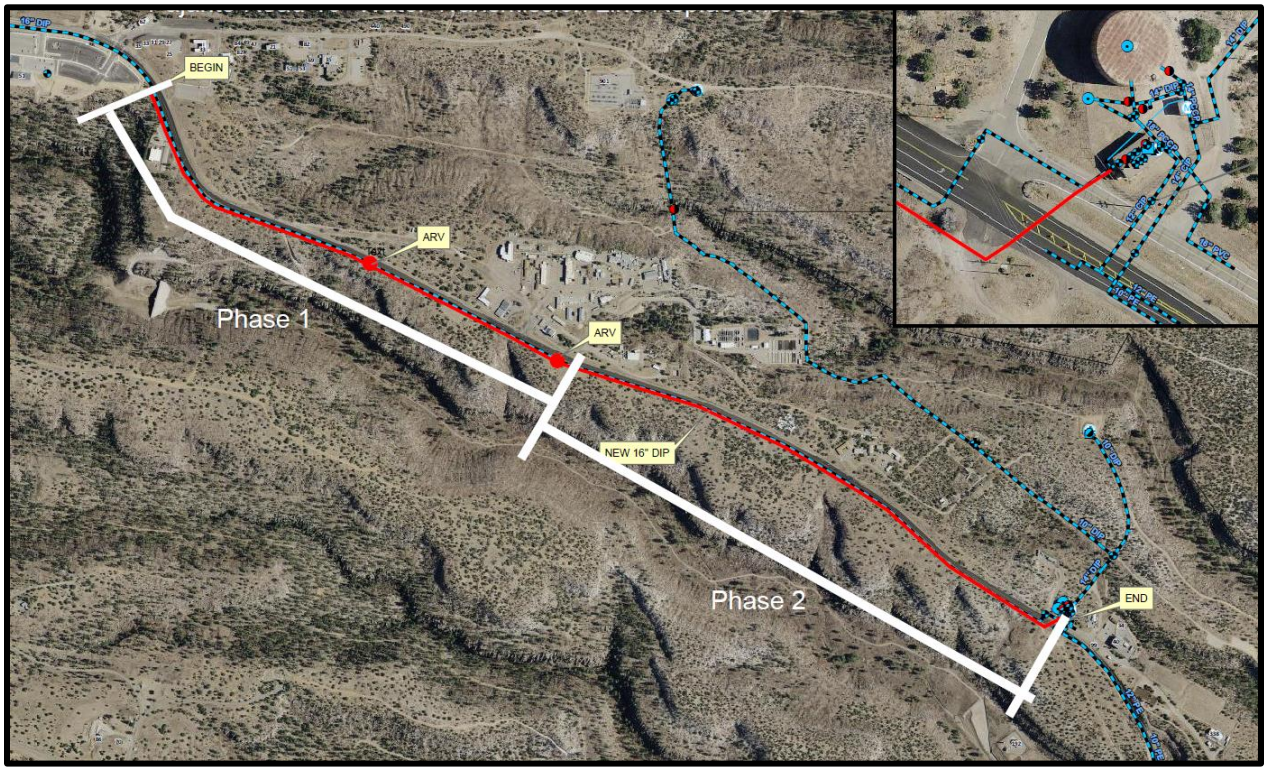
WATER PRODUCTION

FY27: Pajarito Road Transmission Line Replacement Phase I

Project Scope: The Pajarito 16” Transmission line was installed in the early 1960’s and is a concrete cylinder (CCP) pipe that is experiencing frequent failures. The root cause of the failures is consistently found to be corrosion of the bottom of the pipe where moisture and road salts deposit, where the trench is in rock or volcanic tuff. The majority of this 2.3-mile corridor is trenched in rock. The asset management team has identified this pipeline segment as one of the highest risk for failure, with a large consequence when it fails. Three water wells are cut off when the line fails, which serve the Los Alamos National Laboratory. This first phase will be to install approximately 4,500 linear feet of new ductile iron pipe along this corridor.

Budget: $1,700,000 (WTB $1,360,000 / CIP $340K)

Schedule: Summer FY27’



WATER PRODUCTION

FY27: Pajarito Well No.3 Replacement Well Design

Project Scope: Due to the loss of water supply from Pajarito Well No. 3 which has been taken offline due to groundwater contamination and the need to plan for projected increases in water use by Los Alamos National Laboratory and Los Alamos County, preparation to permit and construct a new water supply well is necessary. This project will fund the engineering and hydrologist services to design a new exploratory well and perform the analysis necessary to harvest the County's San Juan Chama water right from a water supply well located at Overlook Park in White Rock. In 2012, the DPU commissioned an engineering study to evaluate the alternatives to develop the San Juan Chama water allocation of 1,200 acre-feet annually. This is a surface water right and must be drawn from the Rio Grande. The recommended alternative was to drill conventional water wells in close proximity to the Rio Grande to harvest the surface water from the Rio Grande.

Budget: $300,000 (Federal Allocation)

Schedule: Summer FY27'

WASTEWATER COLLECTION
FY27: Fairway Street, Sycamore Street, North Community/Western Area Sewer Line Rehabilitation

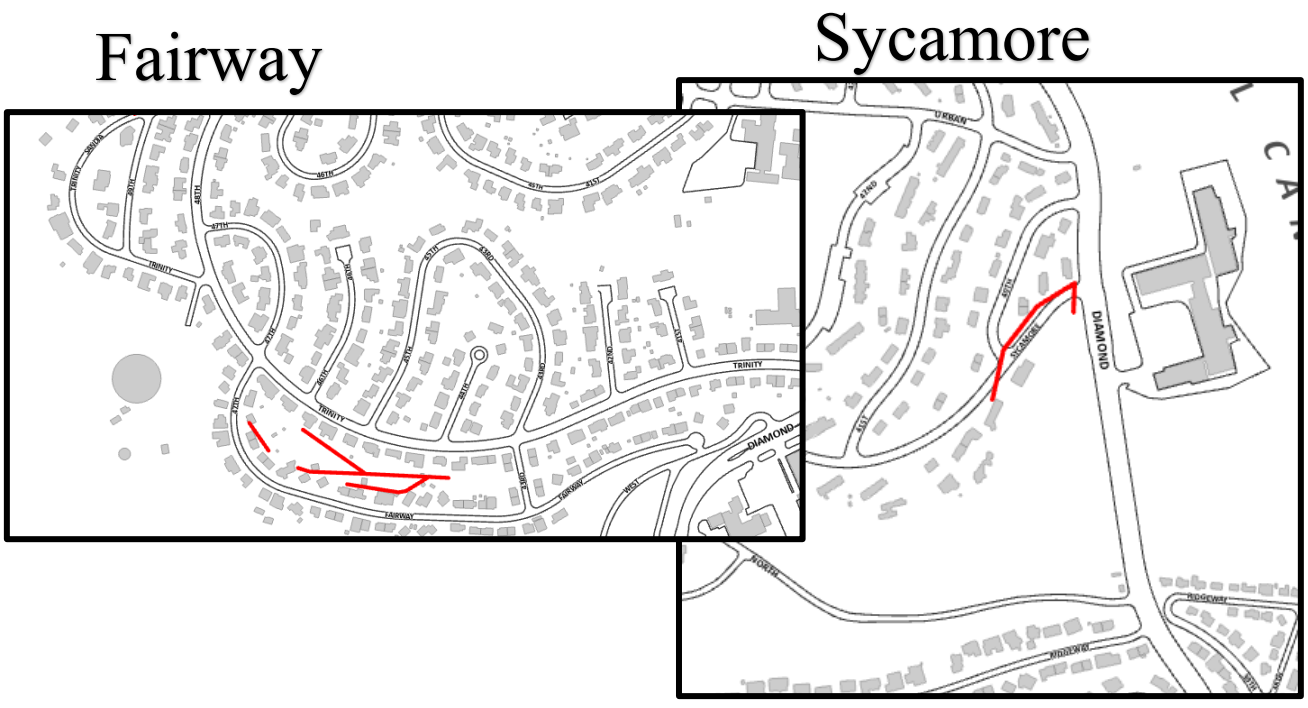
Project Scope: The project will repair and replace segments of vitrified clay sewer lines in Fairway Street and Sycamore Street in areas where collection lines are located in back of homes where it is difficult to access with equipment and have had recurring problems and threats of overflowing. The North Community/Western Area Sewer Mains Project will be the second phase of multiple phases over two fiscal years.

Budget:

- Fairway Street $800,000
- Sycamore Street $600,000
- North Community/Western Area Sewer Mains & Services R&R – Phase 2 $300,000

$1,700,000 (RIP Loan)

Schedule: Construction Spring FY27'



WASTEWATER TREATMENT
FY27: Convert Effluent Wash-Water to Gravity

Project Scope: Treated effluent is currently used for wash-water at the Los Alamos Wastewater Treatment Plant to conserve potable water. A booster station pressurizes the effluent and distributes it throughout the plant. The booster station requires a high amount of maintenance and will soon require refurbishment. This project will pipe effluent water to the plant via gravity and eliminate the need for the booster station. This will save energy to pump the water and operate maintenance-free.

Budget: $300,000 (RIP Loan)

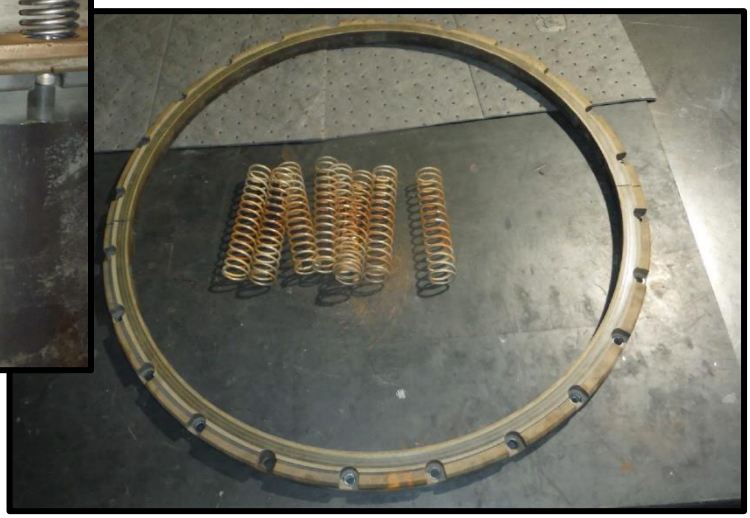
Schedule: Construction FY27'

ELECTRIC PRODUCTION
FY28: El Vado Shaft Seal Repair

Project Scope: This is to purchase and install replacement parts to repair the El Vado Shaft Seal, to remove and replace the existing seal ring, O-rings, compression springs, etc., with new ones on the turbine shaft. The new equipment will likely be a new design.

Budget: $250,0000

Schedule: Winter FY28’



ELECTRIC PRODUCTION
FY28: El Vado Control Upgrade & El Vado Synchronizer Replacement

Project Scope: The controls system at the El Vado hydroelectric plant is now 20 years old and was upgraded in 2006. The software and hardware will be upgraded with new components and programmed with some operational efficiencies. The upgrade will replace hardware and instrumentation that is at the end of its service life to provide continued reliable operation of the plant.

Budget:	El Vado Controls Upgrade	$650,000
	El Vado Synchronizer Replacement	$150,000

Schedule: Winter FY28'

ELECTRIC DISTRIBUTION

FY28: URD (UG Residential Distribution) Replacements

Project Scope: The underground system contains 1970s infrastructure, which was direct-buried and in direct contact with the earth. Portions or segments of the underground system that have experienced 3 or more failures are targeted for replacement because they will fail again. Areas to be included are:

Los Alamos: Sandia, 41st – 47th, Ridgeway Tie	$1,000,000 (CIP)
White Rock: Grand Canyon, Bryce, Richard CT, Rover	$2,000,000 (Bond)

Budget: $1,000,000 (CIP), $2,000,0000 (Bond)
Schedule: Year-round design and construction

ELECTRIC DISTRIBUTION
FY28: Overhead System Replacement

Project Scope: Many components of the utilities' overhead infrastructure operate near or past their useful life, greater than 50 years. The department's Asset Management Program (AMP) prioritizes O&M projects on (a) root cause analysis after power outages, (b) quarterly line patrols, and (c) year-end assessments. The O&M program includes replacement of power poles, cross-arms, and revamps (wire & transformer upgrades).

Townsite Circuit 16, 1 PHASE
White Rock Circuit 1, Wire 1 PHASE

Budget: $ 450,000
Schedule: Year-round design and construction

ELECTRIC DISTRIBUTION
FY28: EA-4 Power Line Replacement

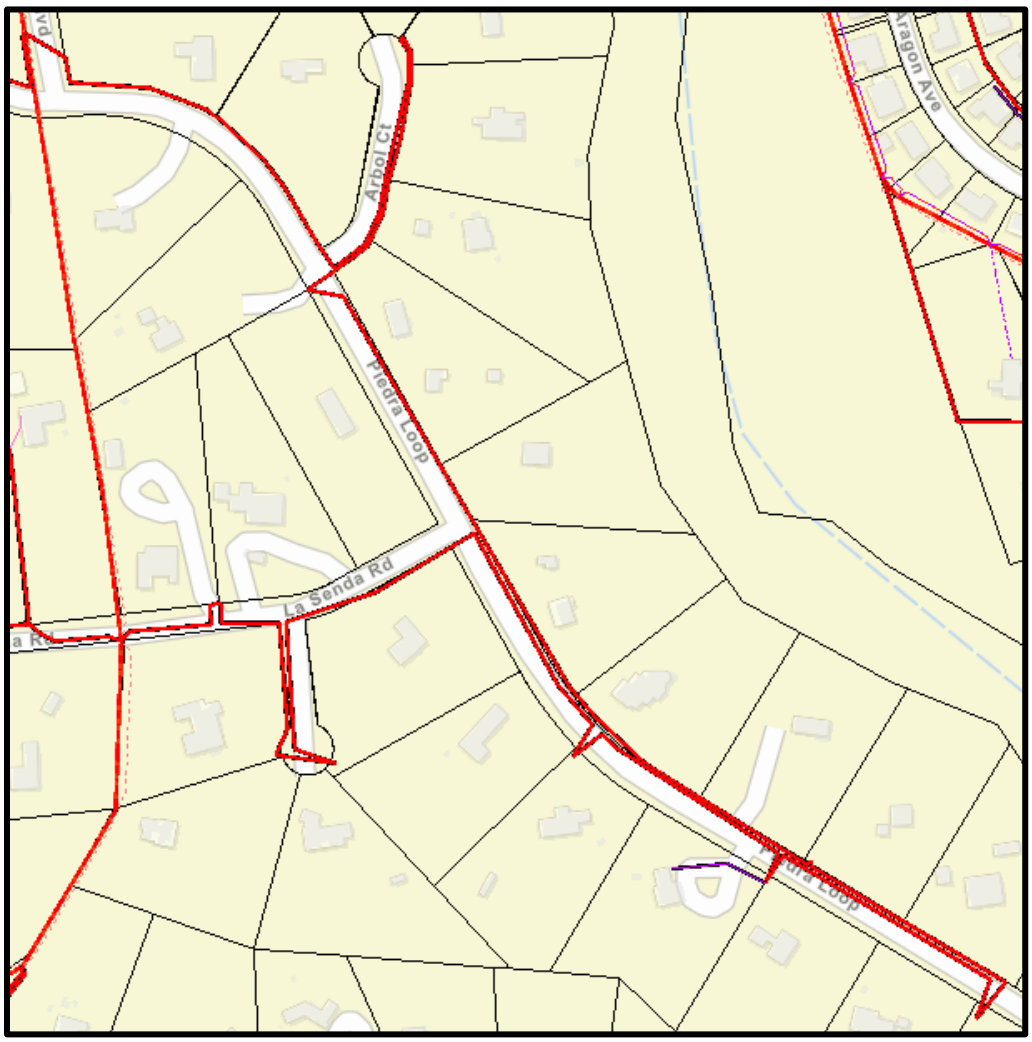
Project Scope: The EA4 line is a separate feeder supplied by LANL to the County. The line enters the service area at NM502 and East Gate and crosses 5 canyons to Feed the Townsite Sewer Plant, East Gate Business area, Townsite water wells in Guaje Canyon and the Totavi gas station. The line has no access over much of its length. The line was constructed in the 60's and has reached its useful life expectancy.

Budget: $ 4,000,000 (Bond)
Schedule: Year-round design and construction

ELECTRIC DISTRIBUTION
FY28: La Senda Road

Project Scope: This project will be the continuation of an upgrade of the conductor on Piedra Loop that was scheduled in 2026. The existing conductor is beyond its useful life, direct buried and prone to failures. The line will be replaced with conductor in conduit that can be removed and replaced in the event of a failure.

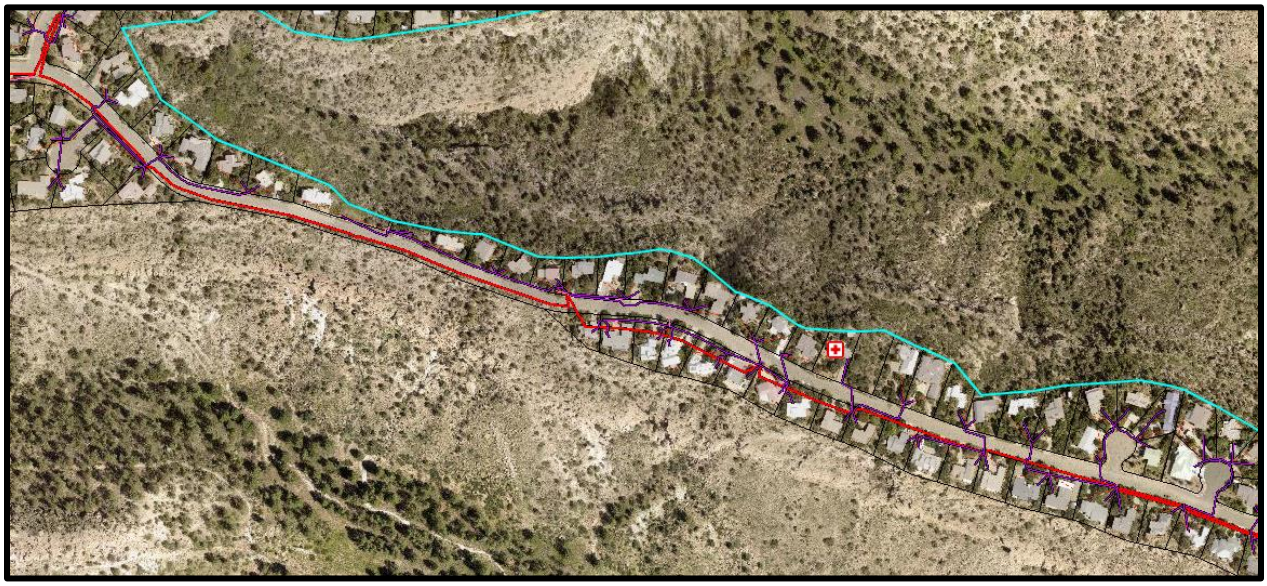
Budget: $ 1,500,000 (Bond)
Schedule: Summer FY28'



ELECTRIC DISTRIBUTION
FY28: Los Pueblos Phase 1

Project Scope: The underground system contains 1970s infrastructure which was direct-buried and in direct contact with the earth. Portions or segments of the underground system which have experienced 3 or more failures are targeted for replacement because they will fail again.

Budget: $ 500,000
Schedule: Summer FY28’



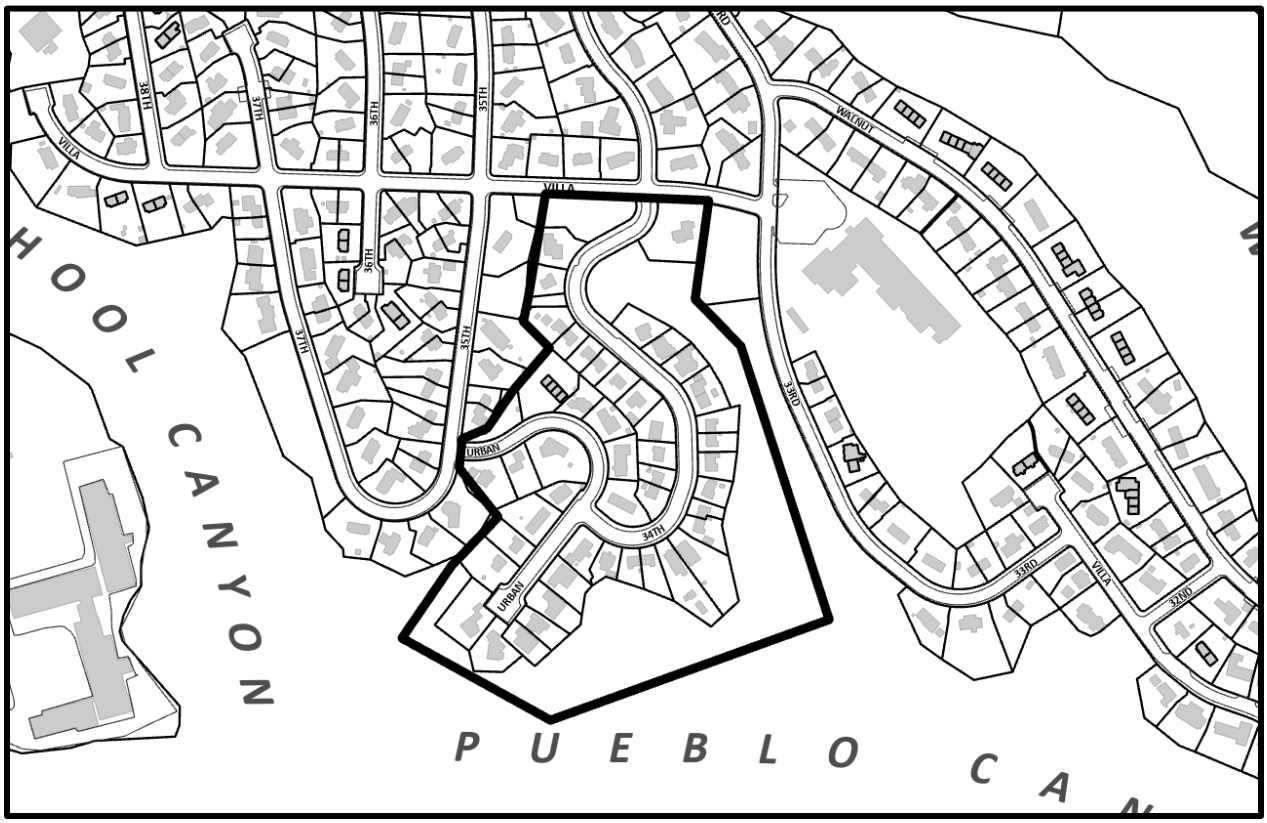
WATER DISTRIBUTION

FY28: 34th & Little Urban Street Waterline Replacement

Project Scope: The project will be in the 34th and Little Urban Street neighborhood in the vicinity of Aspen Elementary School. The failures have been increasing in frequency in recent years. The waterline is a 1950's vintage sections of cast iron pipe that will be replaced. The water distribution portion of the project will apply for Water Trust Board Funding (WTB)

Budget: $1,300,000 (WTB $1,000,000 / CIP $300K)

Schedule: Summer FY28'

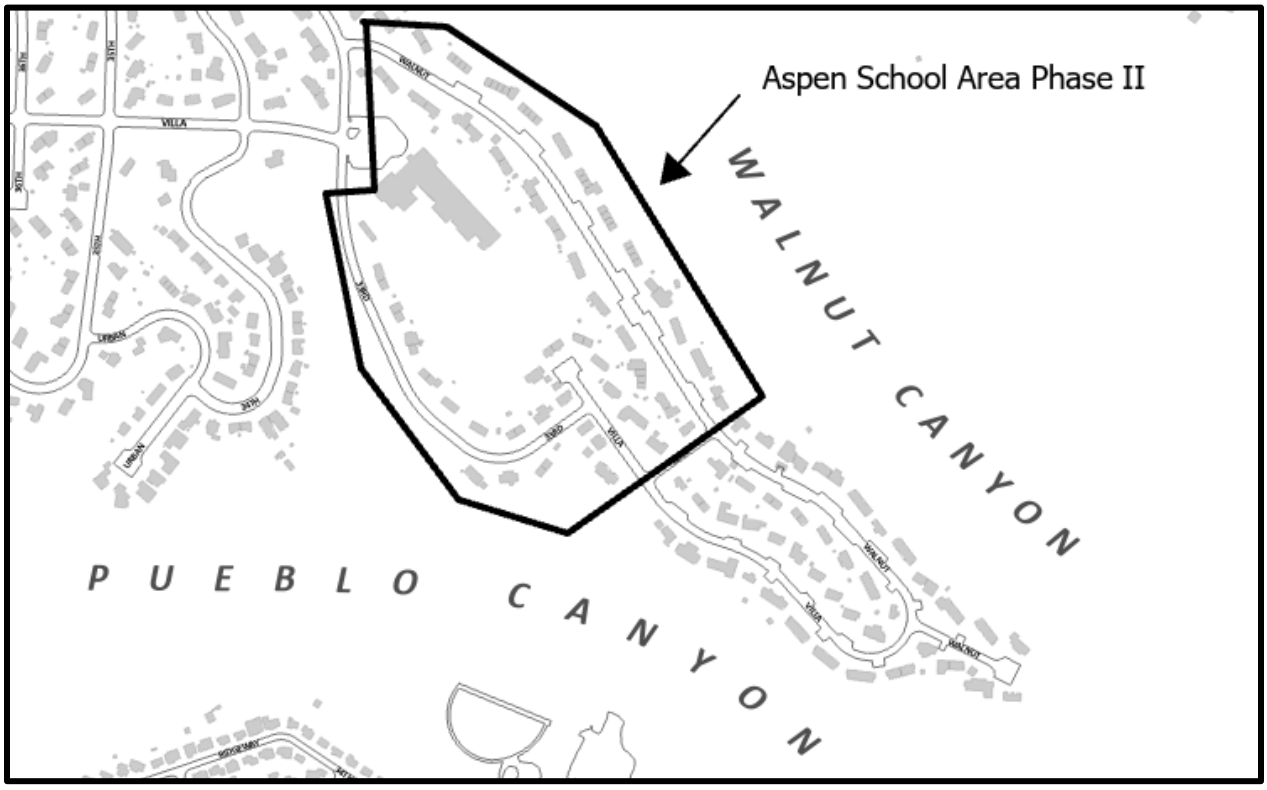


WATER DISTRIBUTION (PROFIT TRANSFER)
WASTEWATER COLLECTION
FY28: Aspen School Area Phase II (Public Works Road Project)

Project Scope: This project will be a joint project between DPU and the Public Works Department to replace another area of 1950's vintage sections of cast iron pipe. This pipe network is an undersized cast iron water distribution pipe that has repeated failures in recent years. This project will also look at repairing and replacing segments of vitrified clay sewer lines within the area located in back of homes where it is difficult to access with equipment and have had recurring problems and threats of overflowing. The water distribution portion of the project will be funded by profit transfer monies allocated to the DPU by the County Council.

Budget:	Water Distribution	$987,000 (Profit Transfer)
	Wastewater Collection	$200,000
		$1,187,000

Schedule: Summer FY28'



WATER PRODUCTION

FY28: North Mesa Tank Altitude Valve

Project Scope: This project would be to install an Altitude Valve on the Water Transmission line that fills the Hawk tank. The altitude valve will replace the offsite pressure reducing valve that currently fills the tank. The new altitude valve will be placed at the base of the tank.

Budget: $670,000 (WTB $536k / CIP $134K)

Schedule: Fall FY28‘

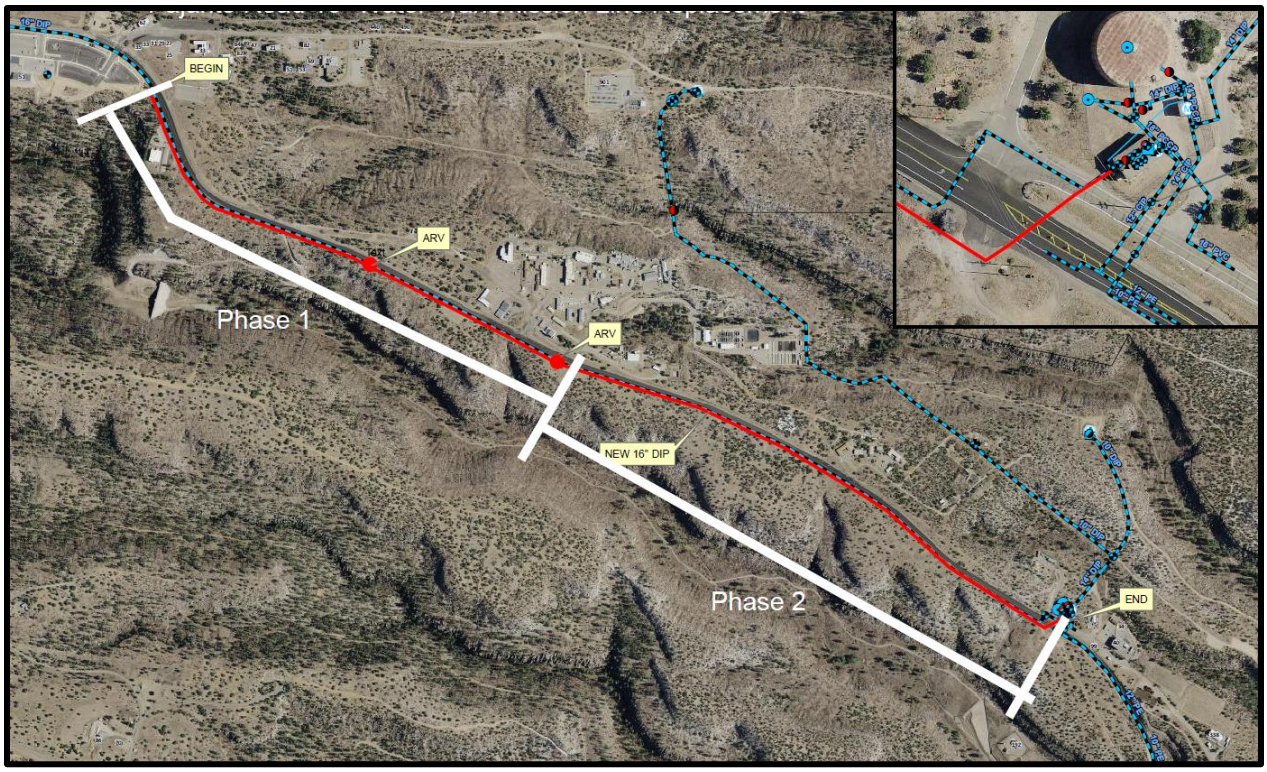
WATER PRODUCTION

FY28: Pajarito Road Transmission Line Replacement Phase II

Project Scope: This is a continuation from Phase 1. The Pajarito 16” Transmission line was installed in the early 1960’s and is a concrete cylinder (CCP) pipe through the Pajarito Road corridor. The root cause of the failures is consistently found to be corrosion of the bottom of the pipe where moisture and road salts deposit, where the trench is in rock or volcanic tuff. The majority of this 2.3-mile corridor is trenched in rock. has identified this pipeline segment as one of the highest risk for failure, with a large consequence when it fails. Three water wells are cut off when the line fails, which serve the Los Alamos National Laboratory. This second phase will be to install approximately 4,500 linear feet of new ductile iron pipe along this corridor.

Budget: $2,200,000 (WTB $1,800,000 / CIP $400,000)

Schedule: Summer FY28’



WATER PRODUCTION

FY28: Booster Station Mech. and Elec. Upgrades Phase I Design

Project Scope: Following the condition assessment completed by Molzin & Corbin in 2022, it listed specific improvement items for each of our Booster Stations in regard to Mechanical and Electrical needs. The upgrades at each Booster location will follow a list based on priority.

Budget: $350,000 (WTB $280k / CIP $70k)

Schedule: Fall FY28’

WATER PRODUCTION

FY28: Booster Station Building Renovations Phase II

Project Scope: Several buildings housing wells and booster stations in our Water Production system are in need of roof, floor, HVAC and structural repairs. This project will identify the most urgent needs and address them. The majority of these facilities in the system were constructed in the 1950s and 1960s.

Budget: $500,000

Schedule: Summer FY28’

WATER PRODUCTION

FY28: Pajarito Well No.3 Replacement Test Well Drilling/Hydrogeology

Project Scope: The Pajarito Well No. 3 replacement will need to drill and test it for capacity at the Overlook Park Area. Hydrogeological studies, modeling, and environmental assessments will be needed to move forward with permitting the well through the Office of the State Engineer.

Budget: $1,500,000 (Federal Allocation)

Schedule: Summer FY28’

WASTEWATER COLLECTION

FY28: Old Pueblo Sewer Canyon Drop Replacement

Project Scope: The above ground 12” steel sewer line drops 100 feet in elevation into Pueblo Canyon attached to the rock face walls of the canyon. The steel line has required multiple repairs to replace sections which have rusted through the pipe walls. The line continues to degrade and the majority of the pipe is inaccessible. This project will replace the compromised pipe by installing a new polyethylene pipe installed by horizontal directional drilling.

Budget: $800,000 (WTB $640 / CIP $160k)

Schedule: Summer FY28’

WASTEWATER COLLECTION

FY28: Cooper Road Sewer Drop Replacement

Project Scope: A study completed by Wilson & Company looked at the infrastructure capacity within the North Mesa Area. The study looked at all infrastructure from Transportation and Utilities and identified items that need improvement in order to support the new development in the area. Deficiencies noted for the wastewater collection was the two sewer drops that will be affected by the new development. The Cooper Road Sewer Drop is located at the end of a cul-de-sac and behind a resident's home. Camera inspection footage showed the need for repairs.

Budget: $1,350,000 (WTB $1,080,000 / CIP $270k)

Schedule: Summer FY28'

WASTEWATER COLLECTION

FY28: Refurbish or Eliminate Pueblo Canyon Pipe Bridge

Project Scope: Further evaluation is ongoing to determine if the bridge will undergo rehabilitation or look at other alternatives to reroute the sewer and gas utilities on this structure and eliminate the bridge in its entirety.

Budget: $1,100,000 (RIP Loan)

Schedule: Summer FY28’

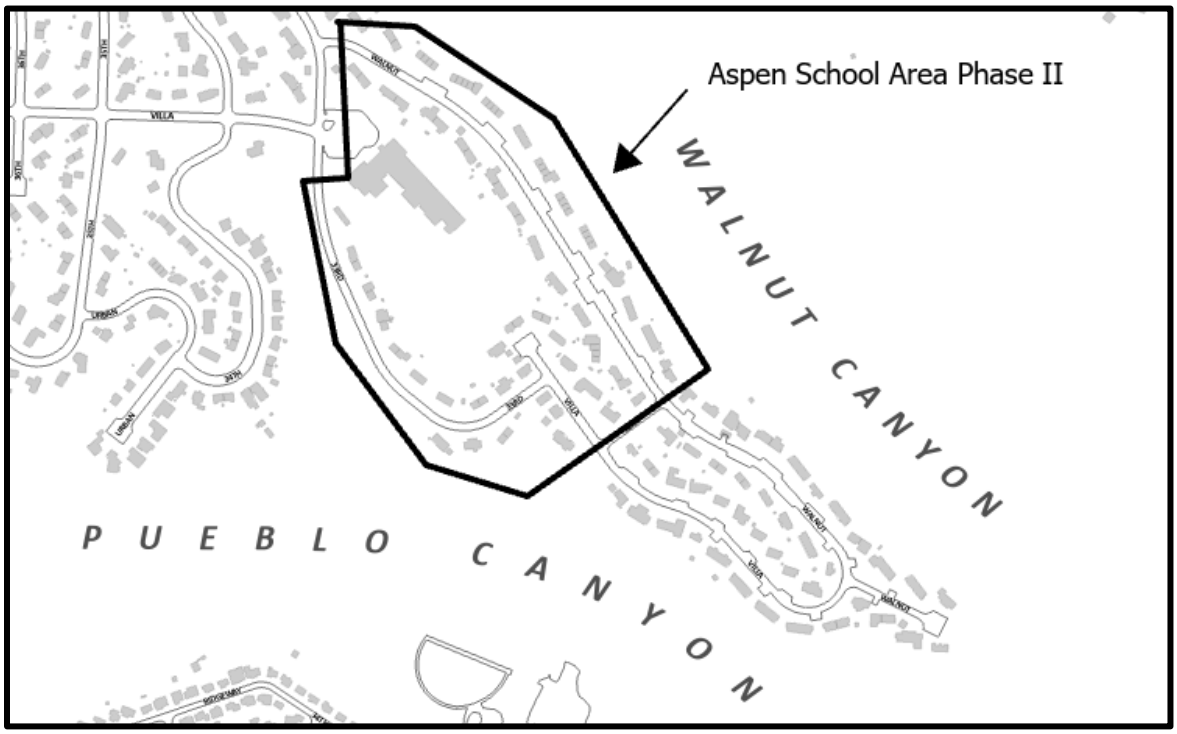
WASTEWATER COLLECTION

FY28: Fairway Street, Sycamore Street, North Community/Western Area Sewer Line Rehabilitation

Project Scope: The Aspen School Area portion of work will be a joint project between DPU and the Public Works Department. This project will be to repair and replace segments of vitrified clay lines in the Aspen School area where sewer lines are located in back of homes where it is difficult to access with equipment and have had recurring problems and threats of overflowing.

Budget: Aspen School Area Pipeline $200,000 (Public Works Project)

Schedule: Spring FY28'



WASTEWATER COLLECTION
FY27: Fairway Street, Sycamore Street, North Community/Western Area Sewer Line Rehabilitation

Project Scope: The project will repair and replace segments of vitrified clay sewer lines in Sandia drive where the collection lines are located in back homes where it is difficult to access with equipment and have had recurring problems and threats of overflowing.

Budget: Sandia Drive $700,000 (RIP Loan)

Schedule: Spring FY28’

Sandia Drive