



2026-2027

Engineering, Project Management

Capital Improvements Program





## Table of Contents

<b>Project</b>	<b>Project Name</b>	<b>Page</b>
670179	Air Compressors BRD/PIC/RED	4
610184	HVAC Replacement HQ B2	5
610208	Motor Exciters TWP/SAN/SND/BLK	6
610211	Pump Casing/Improvement SND/BLK	7
610213	Potable Water Line TFO	8
610317	Condition Based Monitoring	9
610324	SCADA Replacement Control Center	10
610330	Isolation Valves BLK/SND	11
610333	Electromechanical Relay Phase 2	12
610343	Aqueduct Hydrology Improvements	13
610344	Multi Use Building HDQ-BMY	14
610348	Generator Replacements PPs	15
610350	SRP-CAP Interconnection Facility	16
610425	Machine Shop Column Repairs Headquarters	17
610452	Backup Power Systems Replacement at Checks & TO	18
610457	Transmission Line Hardening - SGL	19
610467	Roof Replacement Multi Site	20
610471	Transformer Failure Mitigation MWP	21
610517	Water Education Center	22
610531	VAF Filter Replacement - HSY	23
610532	Unit Breaker Replacement - HSY	24
610533	Core Yard Road Upgrade - HDQ	25
610534	Gabion Bank Protection - NRS	26
610535	Strainer System Replacement - WAD	27
610536	Fire Door Upgrade - Multi Site	28
610537	Basin Improvement - PMRR	29
610538	Monitor Well - PMRR	30
610539	Siphon Regrade - JRWS	31
610540	Service Spillway Upgrade - NWD	32



## ADVISORY CIP PROJECTS (2028 - Beyond)

Embedded 16" Plant Unwatering Line Repairs - BLK

Communication Cable Replacement Project, Phase 6

Elevator Replacement - Phase 3

Exciter Upgrades - MWP

Flow Meter Replacements - Multiple

Implement Alternative 2B from LCCA - AFRS

Implement Alternative 2B from LCCA - SRS

Discharge Reline - LHQ

Microwave Fire Alarm System Replacement

Microwave System Replacement

Motor Drive Replacements

Motor Rewinds

Security System Replacement - Multi-Site

Discharge Valves - MWP

Stators - MWP

Trash Rake Improvements - MWP

Cathodic Protection System Supplemental Ground Bed - PIC

PLC I/O Optimization

Feeder Cable Multi Vault Installation - BMT & SND

Road Improvements Project - South Area

Fire Protection Project Phase 2 - SAN/TWP/SXV/BRW

Station Service Battery Upgrades - Multi Site

Transformer DGA Unit Replacement - System Wide

HVAC - TFO

Trash Rake - SGL

HPU Systems - Turnouts

Portable Bypass Pumping - Turnout

115kV Power Circuit Breakers Retrofit Replacement - TWP

Valve Replacements - BRW & SXV

Fixed Cone Valve - WAD

Point 10 Replacement - WAD

Unit Breaker Replacement (U2, U3, U6, U7) - WAD

UPS Backup System Replacement - WAD



**Project Name: 610179 – Air Compressors**

**Location: Brady, Picacho, Red Rock**

**Discipline: Mechanical 75 Electrical I+C 25**

**Delivery Method: Job Order Contract**

**Scope:** The three duplex air compressor skids for the Discharge Valve Operating Systems (DVOS) at Brady, Picacho, and Red Rock pumping plants are obsolete. The air compressors on the original skids provide 1+1 operational redundancy. Both can operate simultaneously with a lead / lag function determined by pressure switches on the air receiver tank, and both compressors are powered from a common electrical feed from a single 30A 3ph/480VAC circuit. The current compressors are rated at 7 SCFM at 1300psi, and are powered by a 7.5HP motor. The actual maximum system pressure is determined by a pressure switch (63VSAH/L) located on the air receiver located at the discharge of the air compressors. The pressure switch is set to start the compressors at 575 psig, and stop at 600 psig. The system pressure is prevented from exceeding 660 psig by relief valves on the compressors and the air receiver upstream of the hydraulic accumulator system.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design		In House	X	<			
Construction	\$600K-\$700K	Job Order	October 2023	<			



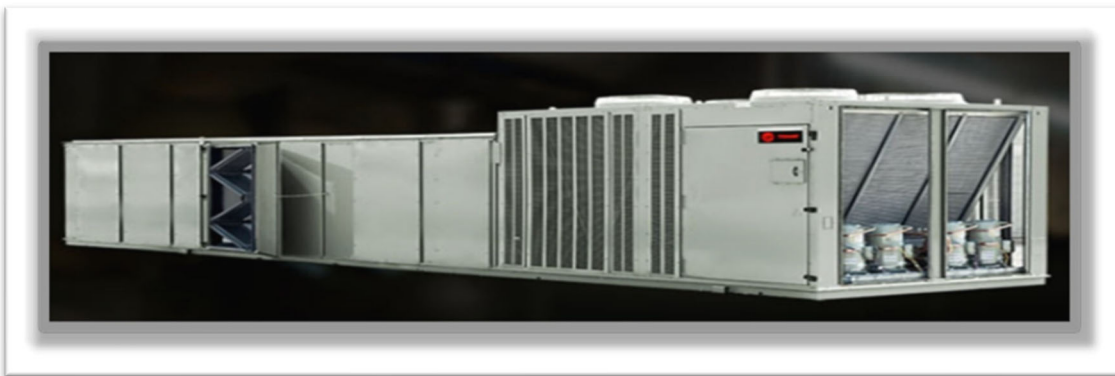
**Project Name: 610184 - HVAC Replacement**

**Location: Headquarters Building 2**

**Discipline: Mechanical 80 Electrical I+C 20**

**Delivery Method: CMAR**

**Scope:** The existing evaporative system requires a high level of maintenance, high water usage, and low human comfort during the warmer/ humid months of the year. It has also been noted that there are material storage issues related to the high humidity climate that the evaporative coolers pose. The Machine Shop, Auto Maintenance Shop, Shipping and Receiving Warehouse, and HDQ2 Central Quad will all be upgraded to modern energy efficient HVAC systems. The new HVAC system will include automated Logic DDC Facility Management System (FMS) which will control and monitor the mechanical equipment. Remote access will be provided to ease the burden on maintenance call outs. There are periods during summertime when the evaporative coolers are ineffective at producing a comfortable working environment in the CAP Auto Shop, Warehouse, and Machine Shop. Summer 2020 set several heat records with 145 days above 100°F, 53 days above 110°F, and 14 days above 115°F. Due to the possibility of extreme heat in current and future years, there is a risk to Life Safety of CAP employees, in addition to risk of damage to CAP equipment stored in these areas. Replacing the evaporative cooling systems on the north, south and west quadrants with packaged DX units should result in less unplanned maintenance work. The systems should provide superior environmental control compared to the original EC systems, which should help extend the life of spare parts in the warehouse and help control corrosion issues in the machine shop and auto shop.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$8 - 1M	Direct	Prior	<			
Construction	\$7 - 9M	CMAR	March 2027	<			



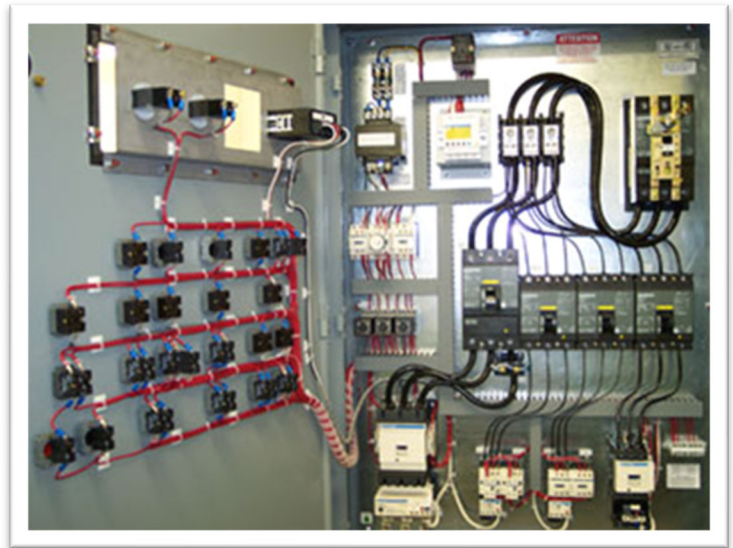
**Project Name: 610208 – Motor Exciter Replacement**

**Location: Twin Peaks, Sandario, Snyder Hills, and Black Mountain PP**

**Discipline: Electrical I+C 100**

**Delivery Method: Procurement**

**Scope:** The twenty-six (26) synchronous motor exciters at Twin Peaks (6), Sandario (6), Snyder Hill (9), Black Mountain (5) are outdated, and replacement part sourcing is becoming very difficult. The current state of the motor exciters is increasingly unreliable. At Twin Peaks and Sandario the discharge resistors are located internally on the motors; in order to replace a failed OEM resistor, the rotor needs to be removed from the motor which requires extensive work. On the Snyder Hill and Black Mountain motors there have been several failures which have required a costly rewind of the OEM spool-type resistors. Additionally, all motors have established a trend of excitation trips. Commonly, no problem is found, however, and the troubleshooting results in unnecessary expenditures, and impacts operation’s capability to move water through these plants. The project scope and description consists of replacing, in kind, the current exciter packages with a brushless package. Similar to the work performed at Brawley and San Xavier in 2012, the existing OEM brushless exciters will be replaced with a new rotating package, which will utilize new control modules and power block SCRs, diodes and rectifiers. This will establish constancy across the plants. A bid was solicited, and Hannon Electric was selected to design the new exciter packages. All exciter wheels have been received and will be installed during annual PM outage windows at Twin Peaks, Sandario, Snyder Hill and Black Mountain. To date, 6 of the 26-unit installations have been completed.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design				<			
Construction	\$.75-1M	RFQ		<			

**Project Name: 610211 – Pump Casing Improvements**

**Location: Snyder Hill and Black Mountain**

**Discipline: Mechanical 100**

**Delivery Method: Procurement**

**Scope:** This project will replace aging and damaged pump casings, covers, and impellers at the Black Mountain and Snyder Hill Pumping Plants. New pumps will be designed with improved impellers to minimize cavitation and allow in-house repair during future overhauls. The replacements will increase reliability and reduce maintenance effort and duration. Existing pump casings have proven difficult and unreliable to repair, with previous attempts resulting in stress cracks and long delays. Replacing these components with new, upgraded designs will restore pump reliability, reduce risk of future failures, and support more effective maintenance. Some units have already failed or been out of service for years, highlighting the urgency.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design				<			
Construction	\$4.5 – 5M	RFQ		<			





**Project Name:** 610213 – Potable Water Line

**Location:** Tucson Field Office

**Discipline:** Civil 100

**Delivery Method:** Job Order Contract

**Scope:** This project involves constructing a private potable water pipeline along the CAP canal alignment to serve the Tucson Field Office (TFO), avoiding the complexity and delay of obtaining public right-of-way. The private pipeline is the preferred path due to timeline certainty and limited third-party involvement. The office facility must meet EPA requirements for potable water service and be completed by the end of 2027.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$75K-\$150K	Direct Select		<			
Construction	\$1M - \$2M	Job Order	Jan 2026				





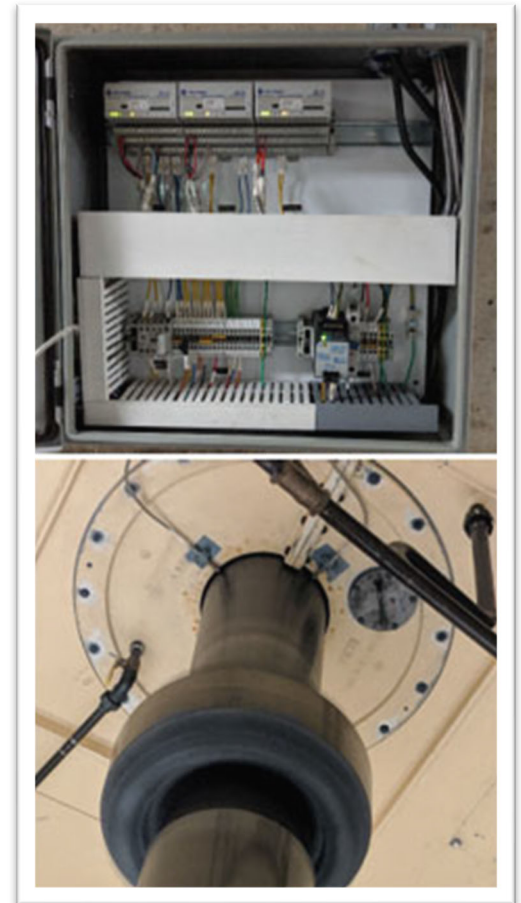
**Project Name: 610317 – Conditioned Based Monitoring**

**Location: Waddell**

**Discipline: Mechanical 70 Electrical I+C 30**

**Delivery Method: Job Order Contract**

**Scope:** Condition-Based Monitoring (CBM) is defined as an equipment-maintenance strategy that assesses the state of major equipment for potential failures and identifies actions to prevent any such failures. CBM’s original project scope as identified in 2012 was to install monitoring equipment across all pumping plants and one pump-generation plant (a total of 109 pump units) using three diagnostic measures: vibration analysis (109 units), motor analysis (109 units) and partial discharge testing (37 units among the South plants). At the end of 2022, 10 of the pumping plants associated with CBM work has been completed. The remaining work involves design and construction (various stages of completion) at Twin Peaks, Sandario, Brawley and San Xavier Pumping Plants, and Waddell Pump / Generating Plant.



	Budget	Process	Advertise Date	2026	2027	2021	2022
Design		In-House		<			
Construction	\$.75-1M	Job Order		<			



**Project Name: 610324 – SCADA Replacement Control Center**

**Location: Project Headquarters**

**Discipline: Electrical I&C 100**

**Delivery Method: Professional Services Contract**

**Scope:** The CAP system was designed to rely on remote operations to divert and deliver Colorado River water. The current Supervisory Control and Data Acquisition (SCADA) system was placed into service in 2012, with most hardware purchased in 2010. A hardware/software replacement is vital to keep up with changes and technological advancements to address security concerns. CAP owns and maintains IT architecture to support multiple SCADA systems (operations and maintenance). There may be an opportunity to optimize the management of these assets, realizing the same or improved functionality of these SCADA systems by consolidating or standardizing the systems used to maximize resources in an efficient manner.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$600 – 800K	RFQ		<			
Construction	\$6.5 – 8M	RFQ		<			





**Project Name: 610330 – Isolation Valves**

**Location: Black Mountain and Snyder Hill PP**

**Discipline: Mechanical 100**

**Delivery Method: Job Order Contract**

**Scope:** This project replaces the original swing check valve with nozzle check valves at Black Mountain and Snyder Hill Pumping Plants. While the butterfly valves have performed as expected, the associated check valves have had issues since installation. The check valves perform their main function of protecting the pumping units from reverse flow but are unable to function per the final hydraulic transient analysis, which requires a fast-closing, first-stage check-valve closing. The current valves and dampening system have been unable to slow the closure of the valve disk. A pilot valve test at Black Mountain Pumping Plant showed that a nozzle-check valve has the ability to close even faster than a swing-check valve, eliminating the need for the second-stage closing. The advantage of nozzlecheck valves is that they fully close, eliminating current concerns with leaking or spinning the pump backwards.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design		In-House	Prior	<			
Construction	\$1M - \$1.2M	JOC	Prior	█			



**Project Name: 610333 – Electromechanical Relay Replacements (Phase II)**

**Location: Multiple**

**Discipline: Electrical I+C 100**

**Delivery Method: Job Order Contract**

**Scope:** CAP pumping plants use a variety of protective relays for large electrical-system protection, including electromechanical (EM) relays, microprocessor-based relays, and solid state relays. CAP currently has some form of protective relay from several of the major equipment vendors. EM relays are reliable and effective, but have a maximum service life of about 30 years. While EM relays are still made, they are becoming more expensive and supplies are limited.



Many utilities are switching to digital relays to circumvent the challenge of managing performance and reliability for multiple generations of in-service relays. Phase two work will replace EM relays with digital relays on transformers and units at Waddell Pump / Generating Plant and the South Plants (Twin Peaks, Sandario, Brawley, San Xavier, Snyder Hills and Black Mountain Pumping Plants). The project also includes integration of relay communications and exciters into the electrical system.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design				<			
Construction	\$20-22M	JOC		<			



**Project Name: 610343 – Aqueduct Hydrology Improvement**

**Location: All**

**Discipline: Geotechnical 80 Structural 20**

**Delivery Method: CMAR**

**Scope:** CAP has approved the means and methods to address potential vulnerabilities of cross drainage infrastructure, to improve dike embankments heights, and for other construction at the most critical locations along the canal. The project scope includes 21 sites, identified by a consultant evaluation update, that were characterized as the most problematic areas, with the highest risk. The improvements will target potential impacts to the canal and downstream conditions if, for example, a dike or overcrossing failure were to happen. In 2021, the Aqueduct Resiliency Committee (ARC) was established to evaluate the earthen dikes modern suitability to mitigate risks from damaging floods. The ARC set out to update CAP’s hydrologic information from a 2010 study with data collection effort and studies completed after 2010. CAP contracted with a consultant who completed the evaluation update in November 2022. The update includes additional studies, design of improvements, and the construction of the improvements.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$15 -20M	RFQ	Prior	<			
Construction	\$150 -200M	CMAR	Prior	<			



**Project Name:** 610344 – Multi Use Building

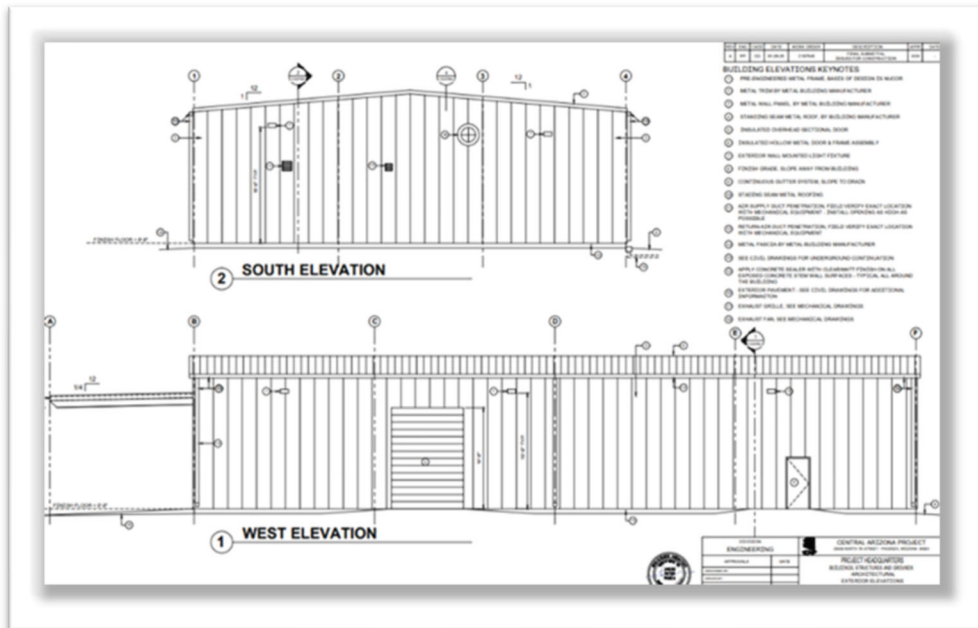
**Location:** Headquarters and Bouse Maintenance Yard

**Discipline:** Civill 50 Mechanical 30 Electrical I+C 20

**Delivery Method:** Job Order Contract

**Scope:** The scope of this project includes the design and construction of two new multi-use maintenance buildings that will be located at Headquarters and the Bouse Maintenance Yard. These new spaces are designed to increase safety and efficiency for CAP’s maintenance staff. The two buildings will be pre-engineered metal buildings placed on new concrete foundations. The building and sites will include concrete driveways, air conditioner units, air compressor, restrooms, utility sinks, eye wash stations, and new electrical distribution systems.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$300-\$350K	Direct Select		<			
Construction	\$2 – 2.5M	Job Order	May 2026	<			





**Project Name: 610348 – Generator Replacement**

**Location: Multi Site**

**Discipline: Mechanical 50 Electrical I&C 50**

**Delivery Method: Job Order Contract**

**Scope:** To ensure reliable operation of critical plant systems during a power outage, each pumping plant has a stationary emergency backup generator that supplies 480 VAC. This project will remove and replace the existing generators, load banks, and diesel tanks at each of the plants with appropriately sized modern systems. This will include adding additional external power connections at the pumping plants for additional temporary power sources. The generators at Headquarters, Pinal Field Office, Tucson Field Office, all checks and turnouts will be excluded from this project scope. A design concept evaluation is currently underway to examine alternative energy sources in addition to traditional diesel generators. The full design phase will commence in 2024 and is estimated to take 18 months for completion. To accommodate outage constraints at the plants, a 24-month construction period is estimated to begin in late 2025. The existing backup generators have reached their end-of-life state and replacement parts are increasingly difficult to procure. The original generators are oversized for the current backup power loads leading to a reduced level of reliability than required which requires a high level of corrective maintenance to ensure continued operations.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$500 - 750K		Prior				
Construction	\$15-17M	JOC	Prior				



**Project Name:** 610350 – SRP-CAP Interconnect Facility

**Location:** Salt River

**Discipline:** Mechanical 80 Electrical I&C 20

**Delivery Method:** Inter-Governmental

**Scope:** The SRP-CAP Interconnection Facility (SCIF) is a joint-funded project with Salt River Project (SRP), CAP, and nine Valley water providers which will allow water to flow between the SRP system and the CAP aqueduct near the Salt River Siphon and Salt Gila Pumping Plant. The project will be broken into three phases and organized under a cost-share agreement approved by the CAWCD Board in 2022. Phase One of the cost-share agreement is the technical review phase, which is in progress, and will be completed in 2023. Phase Two will include the design and environmental review process, and Phase Three will be the construction phase of the project. The construction administration of this work will be led by SRP, and CAP’s cost-share is 24.4% of the project.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design							
Construction	\$20 – 25M						





**Project Name: 610425 – Column Rehabilitation**

**Location: Project Headquarters**

**Discipline: Civil 100**

**Delivery Method: Job Order Contract**

**Scope:** This project will rehabilitate two damaged concrete columns that support a 15-50 ton overhead crane in the CAP Headquarters Machine Shop. The rehabilitation includes removing the crane system, replacing the compromised base plates and grouting, reinforcing the columns, and reinstalling the crane system.



	Budget	Process	Advertise Date	2026	2027	2028	2024
Design	\$50 – 100K	Direct Select	Prior	<			
Construction	\$100 – 150K	JOC	Jan 2026				



**Project Name: 610452 - Backup Power System Replacements**

**Location: Checks, Turnouts, and Microwave Sites**

**Discipline: Mechanical 70 Electrical I+C 30**

**Delivery Method: Job Order Contract**

**Scope:** This project addresses CAP’s need for the replacement of backup power systems at eight mountain-top microwave sites, 33 turnouts and over 30 check structures. These sites currently utilize various direct current (DC) chargers and batteries for multiple voltages, ranging from 120 volts DC (VDC) to -48 VDC. The existing chargers are to be replaced with an integrated uninterruptible power supply (UPS) and DC power distribution system. This system incorporates all existing voltages and also consolidates the power system to 24 VDC. The new battery-charger system integrates voltages that are still in use. This project will also replace emergency backup generators and automatic transfer switches (ATS) at locations where existing equipment is beyond service life and requires high levels of corrective maintenance. Since the original project budget was prepared, this project’s scope has expanded to 95 sites total - Including 39 checks, 48 turnouts, 8 microwave sites. There are 10 sites remaining for generators and 12 remaining for IPSS installation.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$750K – 900K			<			
Construction	\$4.5M – 5M	JOC		<			



**Project Name: 610457 - Emergency Transmission Line and Hardening**

**Location: Salt Gila**

**Discipline: Electrical I&C 100**

**Delivery Method: Job Order Contract**

**Scope:** This project proposes reliability improvements for the Salt Gila Pumping Plant’s 69kV power line, including selective line hardening and the addition of an alternate power feed. The goal is to reduce outage duration and improve power resilience by installing steel “stopper” poles and constructing a backup line from the SRP Thunderstone-Fountain corridor. A September 2023 storm caused downed power poles and a full outage at Salt Gila, halting pumping operations and disrupting water deliveries. The incident exposed vulnerabilities in the power infrastructure. A power hardening project is needed to improve system resilience and maintain operations during future outages.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	Direct			<			
Construction	\$2.5M-\$3M	JOC	Jan 2027	<			



**Project Name: 610467 – Roof Replacement**

**Location: Multiple Sites**

**Discipline: Civil 95 Electrical 5**

**Delivery Method: CMAR**

**Scope:** This project includes replacing aging spray foam roofing systems at multiple CAP facilities, including remaining pumping plants with older roofs, and Headquarters Buildings 1, 2, and 6. The new roofs will consist of a polyurethane spray-applied system with an elastomeric topcoat and a 3/8” tapered polyisocyanurate underlayment to meet current building code for roof slope. The work also includes a safety assessment for selective fall protection upgrades to comply with OSHA standards. Condition assessments identified these roofs as nearing or at the end of their service life, with prior replacements completed at higher-priority plants in 2024. Replacing the remaining roofs now will prevent water ponding, organic buildup, and coating degradation, thereby extending the life of the facilities and avoiding future damage. The design ensures compliance with modern building codes and safety requirements.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$1-1.5M	RFQ	May 2026				
Construction	\$12-15M	RFQ	May 2026				



**Project Name: 610471 – Transformer Failure Mitigation**

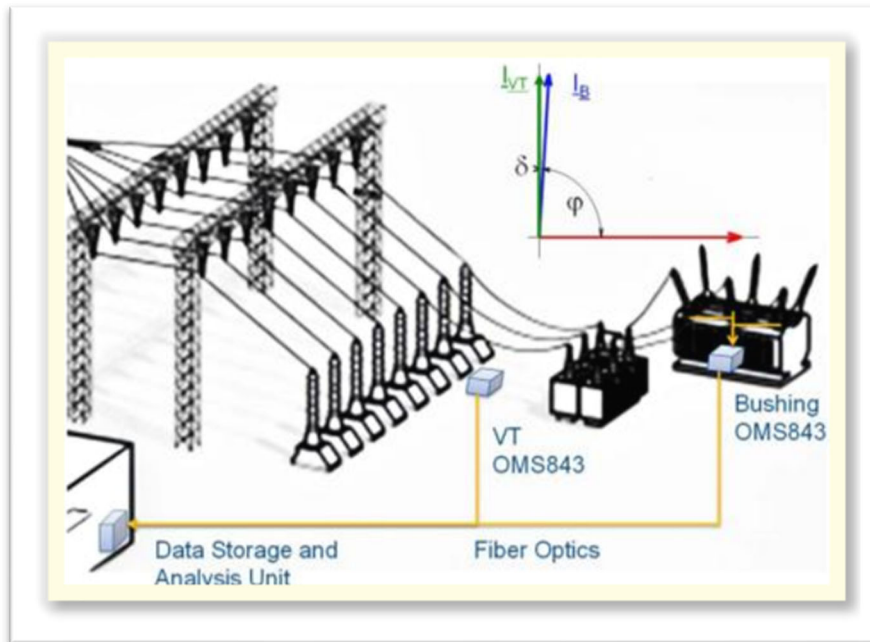
**Location: Mark Wilmer Pumping Plant**

**Discipline: Electrical 100**

**Delivery Method: To be Determined**

**Scope:** This project will replace aging dissolved gas analyzers (DGAs) on transformers at the Mark Wilmer Pumping Plant with modern, high-accuracy units. The upgrade will include installing new monitoring systems, improving transformer health diagnostics, and integrating data into existing CAP software for real-time condition tracking and predictive maintenance. The current DGA systems are over 10 years old, beyond their expected service life, and have shown signs of failure in multiple transformer bushings. Because bushing failures are a leading cause of transformer fires, upgrading to modern DGAs will significantly reduce the risk of unplanned outages, equipment damage, and high-cost repairs.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$150–200K	RFQ					
Construction	\$1 – 1.5M	JOC	Dec 2026				





**Project Name: 610517 – Water Education Center**

**Location: Project Headquarters**

**Discipline: Civil 60, Mechanical 20, Electrical and Controls 20**

**Delivery Method: CMAR**

**Scope:** The proposed Water Education Center will support CAP’s mission by serving both internal and external stakeholders. While not a major tourist destination, it will attract those interested in water issues and education. Public interest in water is growing, and requests for CAP information and tours are increasing. However, security constraints limit access to facilities, and headquarters lack dedicated space for briefings or canal viewing. This project addresses those gaps by creating an accessible facility showcasing CAP’s history, operations, and role in Arizona’s water system, including safe canal views. The Center will support stakeholder meetings, official briefings, board meetings, and school visits, while also providing overflow space beyond the current Multipurpose Room. The WEC is expected to open in 2026, with project closeout in 2027.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$2 – 2.5M	RFQ		<			
Construction	\$35 – 40M	CMAR		<			>





**Project Name: 610531 – VAF Filter Replacement**

**Location: Hassayampa Pumping Plant**

**Discipline: Mechanical 75 Electrical I+C 25**

**Delivery Method: Job Order Contract**

**Scope:** This project involves evaluating and replacing the current underperforming VAF filtration system at the Hassayampa facility. The new system will be selected and designed to handle peak water turbidity and biological loads during the most demanding operational seasons. The replacement will improve water filtration reliability for main unit stuffing boxes and domestic water systems. The existing VAF system is failing due to excessive biological clogging and fine sediment wear, requiring constant cleaning, frequent rebuilds, and disabling of protective trips just to remain operational. Component failures occur monthly, far exceeding the original 6–12-month maintenance cycle, and are starting to damage non-replaceable components like stainless steel shafts. A new system is critical to reduce maintenance costs, manpower hours, and operational risk to the plant's main pumping units.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$400-500K	Direct					
Construction	\$1.5-2M	JOC	January 2027				





**Project Name: 610532 – Unit Breaker Replacement**

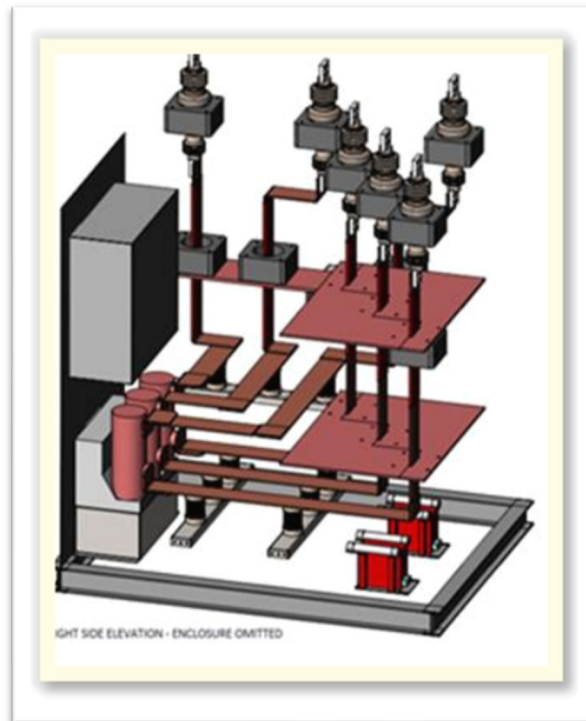
**Location: Hassayampa Pumping Plant**

**Discipline: Electrical and Controls 100**

**Delivery Method: Job Order Contract**

**Scope:** This project will replace two aging 230kV circuit breakers at the Hassayampa (HSY) Switchyard, originally installed in 1985. The replacement breakers will be modern gasinsulated (SF<sub>6</sub>) units, installed on new foundations with associated electrical, communication, and civil upgrades. The work also includes minor layout reconfiguration to accommodate the new equipment and improve operational access. The existing breakers are nearly 40 years old and beyond their recommended service life, with limited spare parts availability and increased maintenance needs. Replacing them is critical for maintaining system reliability, safety, and compliance with current industry standards. This proactive upgrade reduces the risk of failure that could disrupt power delivery to key CAP facilities.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$300-450K	Direct Select		<			
Construction	\$3.5-4M	JOC	Jan 2026	>			





**Project Name:** 610533 – Core Yard Road Upgrades

**Location:** Headquarters

**Discipline:** Civil 100

**Delivery Method:** Job Order Contract

**Scope:** This project will restore the deteriorating pavement of the HQ Core Yard Road using pulverization-in-place and a new bituminous overlay. The work includes drainage and grading improvements to improve reliability and extend the road’s lifespan. The existing road, constructed before 1991, suffers from edge failures, cracking, and thermal damage due to age & minimal maintenance. Rehabilitation is needed to maintain safe access & reduce ongoing repair costs.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design		Direct					
Procurement	\$ .75-\$1M	JOC	November 2026				



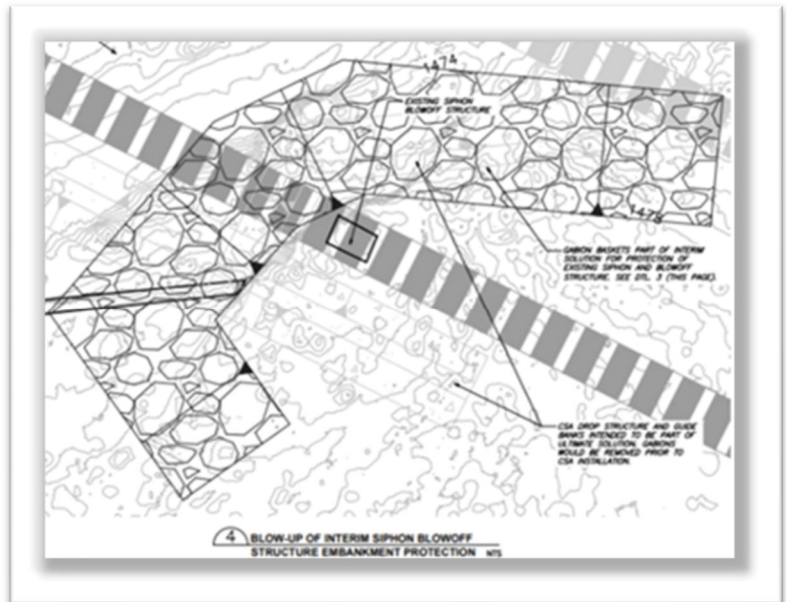
**Project Name: 610534 – Gabion Bank Protection**

**Location: New River Siphon**

**Discipline: Civil 100**

**Delivery Method: Job Order Contract**

**Scope:** The New River Siphon Gabion Bank Protection project involves the construction of a 10-foot tall gabion bank system to stabilize and protect the exposed blow-off structure from further erosion due to stormwater flows. Over time, channel scouring has exposed approximately 8 feet of the structure, threatening its structural integrity. The proposed work includes grading and compacting the riverbank, installing gabion mattresses, and securing necessary environmental permits. Construction will be completed outside of the structure to ensure uninterrupted operations. Ongoing erosion has already exposed key infrastructure, presenting risks to both structure integrity and safety. An engineering study determined that gabion protection is the most cost effective and durable method, avoiding the significantly higher cost of alternatives such as shotcrete. Without intervention, further erosion could compromise CAP's ability to safely manage river discharge. The selected solution aligns with reliability and maintenance needs.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design		In-House		<			
Construction	\$600 – 750K	JOC	January 2027				



**Project Name: 610535 – Strainer System Replacement**

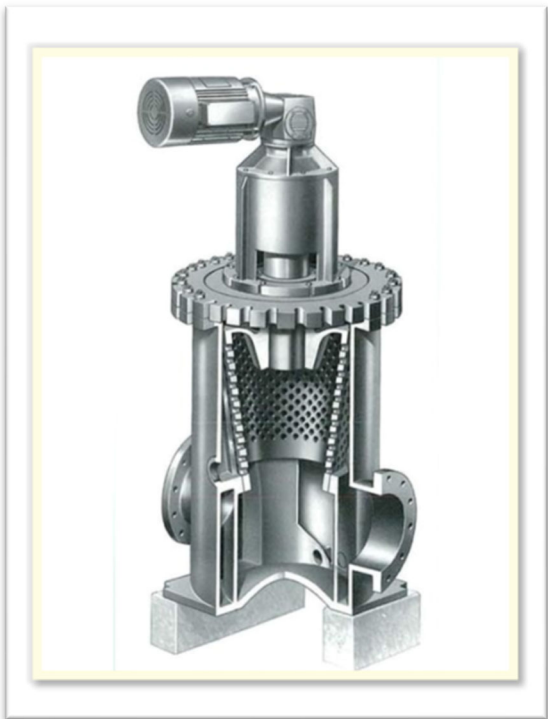
**Location: Waddell Pumping Plant**

**Discipline: Mechanical 80 Electrical 20**

**Delivery Method: Job Order Contract**

**Scope:** This project involves replacing the corroded Hayward strainer in the Waddell Pumping Plant seal water system with a new strainer technology. The replacement is part of a broader program to standardize and upgrade all strainers at the facility. The existing strainer is in poor condition due to significant internal corrosion, reducing its effectiveness and reliability. Upgrading to a new strainer technology will improve performance, align with facility-wide upgrades, and reduce the risk of equipment failure.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$100-150K	Direct	January 2026				
Construction	\$400-750K	JOC	Oct 2028				





**Project Name: 610536 – Fire Door Upgrade**

**Location: Multi-Site**

**Discipline: Architectural 100**

**Delivery Method: Job Order Contract**

**Scope:** This project involves repairing or replacing damaged fire-rated doors at multiple CAP Pumping Plant facilities. Work includes replacement of door closers, fire-rated hardware, rusted or nonfunctional door frames, and ensuring compliance with current fire and safety codes. Many of the existing fire doors are no longer functioning properly due to wear, corrosion, or outdated components, posing a safety and code compliance risk. Replacing or repairing these doors will restore proper fire protection, improve facility security, and reduce liability in the event of an emergency.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design				<			
Construction	\$500 – 600K	JOC	Feb 2027				



**Project Name: 610537 – Pima Mine Road Basin Improvements**

**Location: Pima Mine Road**

**Discipline: Civil 100**

**Delivery Method: Job Order Contract**

**Scope:** The Pima Mine Road Recharge Project will improve basins 4N and 4S by repairing severe slope erosion and removing accumulated sediment. The work includes regrading of slope, sediment removal, road access improvements, and erosion control upgrades to restore recharge efficiency and ensure safe maintenance access.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$150–200K	Direct	Feb 2027				
Procurement	\$1.5-2M	JOC					





**Project Name: 610538 – Monitor Well**

**Location: Pima Mine Road**

**Discipline: Civil 100**

**Delivery Method: Job Order Contracting**

**Scope:** This project involves drilling and constructing a new groundwater monitoring well to replace the failed Monitoring Well No. 4 (MW-4) at the Pima Mine Road Recharge Project. The new well will support water level and water quality monitoring required under Arizona Department Water Resources permit conditions. Work includes site preparation, drilling, installation, and well development, with design and construction performed by external consultants and contractors. MW-4 is no longer operational due to a stuck pump and remaining column pipe, making monitoring impossible. A new well must be installed within 600 feet of the existing location to comply with regulatory requirements and ensure continued monitoring of recharge performance and aquifer health.



	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$25 – 50K	Direct		<			
Construction	\$150 – 200K	JOC	July 2026				



**Project Name: 610539 – Siphon Regrade**

**Location: Jackrabbit Wash**

**Discipline: Civil 100**

**Delivery Method: Job Order Contract**

**Scope:** This project will develop and implement a grading and drainage plan to prevent water from ponding above buried pipeline segments at the Jackrabbit Wash Siphons. The work includes regrading soil to promote runoff and protect the pipeline infrastructure. Backfill settlement has led to water ponding above siphon segments, which allows moisture to seep through cracked mortar coatings and corrode prestressing wires. Previous excavations have confirmed water intrusion and wire corrosion, making corrective grading essential to preserve pipeline integrity.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$25 – 50K	Direct	Feb 2027				
Construction	\$400 – 500K	RFQ	October 2028				





**Project Name: 610540 – Service Spillway Upgrade**

**Location: New Waddell Dam**

**Discipline: Civil 100**

**Delivery Method: Job Order Contract**

**Scope:** This project involves repairing deteriorated concrete patches on the New Waddell Dam service spillway to restore its original design and structural integrity. Due to the spillway’s complex curvature and extensive patching, the work requires specialized equipment and contractor expertise. The existing patches are numerous and irregular, making in-house repairs unfeasible. A contractor-led effort will allow for larger concrete removal and structural assessment to ensure the spillway meets original design standards and performs safely under high-flow conditions.

	Budget	Process	Advertise Date	2026	2027	2028	2029
Design	\$25 – 50K	Direct Select	Jan 2027				
Construction	\$450 – 500K	JOC	Oct 2027				



