

**Engineering and Hydroelectric Department
Project Status Report April 30, 2024**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
CIP Budgeted Projects									
57	2376	North Auburn Treatment Plant	Rebuild the motor control center for highlift pumps and convert to variable frequency drives.	Construction	100% of underground electrical conduits placed, MCC Control panel foundation support constructed. MCC room constructed, transformer pad poured.	\$ 1,200,000	2022-2024	3	AS
68	2645	Combie and Ophir 2 & 3 Siphon Replacement	Design and construct 853 lf of pipeline to replace Orr Creek siphon, 3,292 lf of pipeline to replace Dry Creek siphon and 1,392 lf of pipeline to replace Rock Creek siphon. All siphons require crossing of various creeks, Hwy 49, and hospital property, requiring extensive permitting and CEQA	Planning	Received the Draft IS/MND from ECORP. The comment period is April 3, 2024, to May 3, 2024. The IS/MND is available for viewing on the Project webpage at www.nidwater.com/combie-and-ophir-2-3-siphon-replacement-project . Staff held a meeting with property owners impacted by the project on April 24, 2024. Anticipate seeking Board approval in June 2024. NID Survey crew to finish survey of Dry Creek and complete data transfer to Drafting by May 1. Completing design for Orr Creek and bidding this summer, construction start in summer-fall 2024. Dry Creek design start in summer of 2024, bidding in early 2025, construction in spring 2025. Rock Creek siphon design start in middle 2025, bidding in 2026 with construction to follow.	\$ 900,000	2023-2026	4	AS
62	2647	Ramp Repairs - Main Office - Operations	Existing ramp is failing and requires extensive reconstruction. Replace existing ramp and bring it up to current design standards.	Design	Contract with Morrison Structures has been executed, anticipate January 2025 completion of design, February-March permits and approval from City, bidding and construction April-May 2025.	\$ 700,000	2023-2024	N/A	AS
55	2182	North Day Road	Existing pipeline has exceeded its life expectancy and is deteriorated. Mainline runs through private property and has been broken by roots and property owners.	Construction	Maintenance constructing pipeline replacement. Pipe installation has been paused until maintenance crews finish other projects. . Approximately 1,100 feet of pipe remain to be installed.	\$ 60,000	2023-2024	2	AS
61	2409	Maranatha Place DFWLE	Design and construct approximately 3,170 feet of 8-inch treated waterline and three fire hydrants to serve 21 parcels on Maranatha Place. Pavement restoration	Construction	Met with property owners on April 30, 2024. Digging commencing May 1, 2024.	\$ 1,011,880	2024	2	AS
61	2643	Ali Lane DFWLE	Design and construct approximately 1,240 feet of 8-inch treated waterline and two fire hydrants to serve 8 parcels on Ali Lane. Pavement restoration	Close-out	Construction is complete. Clean up occurring week of April 29, 2024. Walk-through with property owners scheduled for May 2, 2024. Notice of Completion to be filed.	\$ 462,416	2024	4	TTH

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61	2650	Harris Road DFWLE	Design and construct approximately 3,000 feet of 8-inch treated waterline, 1450 feet of 4" treated waterline, and three fire hydrants to serve 34 parcels on Harris Road. Pavement restoration.	Pre-Construction	Recommendation of award for contract goes to the Board for approval on May 8, 2024.	TBD	2024	4	TTH
57	2602	DS Canal Shotgun Culverts	Replace existing Shotgun culverts with 4' x 8' Box Culvert to allow for higher summer flows.	Construction	Delivery of box culverts is anticipated at the end of May 2024.	n/a	2023	1	TTH
57	2336	Tarr Diversion Wolf Creek	Replace existing diversion structure with a new concrete structure. Existing diversion structure is deteriorated and needs major repairs.	Planning	Partial deliverables received for survey. Feedback to Wood Rogers on items missing. Requested call.	\$ 150,000	2023-2025	2	TTH
57	2646	Tarr Canal Old Auburn	Encase approximately 6,750 feet of canal with precast concrete box culvert due to numerous leaks.	Planning	Partial deliverables received for survey. Feedback to Wood Rogers on items missing. Requested call.	\$ 200,000	2023-2026	1	TTH
57	2568	Lake Wildwood Treatment Plant	Treatment plant upgrades include replacing clearwells, pumps, drying beds, sediment ponds, intake structure, and electrical.	Planning	Draft Request for Proposals and Q&A for operations in progress.	\$ 300,000	2024-2026	5	TTH
53	8099-4	Maben Canal IV	Rehabilitate and enlarge the Maben Canal, placing approximately 662 feet of 18" pipe within the existing canal alignment, and replacing an existing 12" pipe/siphon with a new 24" pipe 480 feet long. A water flow measuring device will be installed at the end of the new pipe installation as part of the project.	Pre-Construction	Survey indicates easement exists for approximate centerline of canal. Potential need for survey cleanup on road access on the southern end. Design is complete. Bidding late summer, construction in fall, 2024	\$ 550,000	2024	3	AS
56	2692	Rough & Ready Reservoir Pipe	The outlet pipe is badly deteriorated. Project will replace the outlet pipe and structure that feeds the lower portion of the canal system. The catwalks and control valve will also be replaced during this project.	Planning	Project planning is underway to evaluate the condition of the outlet pipe	\$ 100,000	2024	5	ND
50	2366	Cedar Ridge PRV	Replace the aged underground PRV station with an above-ground PRV station. Existing Right of Way will need to be modified.	Planning	Project planning is underway.	\$ 154,000	2024	2	ND

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53	2690	Hughes Road Pipeline Replacement	The original 20" steel pipe has leaked as it crosses under the Lower Grass Valley Canal. It is a primary transmission main and will be replaced with approximately 1,120 feet of new pipe. The 520-foot section at the end of Litton Drive will be connected with a 10" pipe to provide redundancy and connectivity.	Design	Previous completed design in 2016 being modified by drafting. Survey requested for loop completion of 10" line on Litton Way. Out to bid Summer 2024.	\$ 424,000	2024	2	AS
46	2689	Charging Stations - GV	Installation of new PG&E service meters and transformers, and installation of two electric vehicle charging stations.	Planning	A kick-off meeting was held with the District's Consultant to collect basic fleet information. Consultant currently working on report.	\$ 900,000	2024-2026	N/A	DR - ND
57	2687	ADA Transition Plan	Review the District offices and buildings to ensure compliance with the Americans with Disabilities Act (ADA) and develop a plan to make improvements as necessary.	Planning	Anticipate having the RFP out to consultants by May 2024. ADA transition plan should be completed in 2024.	\$ 150,000	2024-2028	N/A	DR
	2688	Automated Gaging Head Gates	Replacement of manual headgate control structures with automated gates that will allow for real-time adjustment and measurement. The existing stations have met their life expectancy.	Planning	A purchase order has been created. Gates will be installed at the end of irrigation season.	\$ 100,000	2024	N/A	CC
	2685	Christian Life Way - CalTrans Pipeline Relocation	Replace and relocate the District's infrastructure and easements in the area designated in the CalTrans Hwy 49 widening project. The Christian Life Way Project was postponed previously in anticipation of the CalTrans Project.	Planning	Relocation is primarily related to the main 10" pipe crossing Hwy 49 to Smithy Place. Preliminary draft of new pipe crossing approved by CalTrans Engineers. District to formally submit plans. CalTrans Encroachment permit will be needed.	TBD	2024	5	AS

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CIP Budgeted Projects (Hydro)									
84	2094	Scotts Flat Spillway	Design and replacement of Scotts Flat Spillway	Design	Received comments from DSOD on 30% submittal, along with comments regarding the upper plunge pool. Comments being responded to and will be part of the 60% design submittal. 60% design will be submitted to DSOD in May 2024. CEQA/NEPA development ongoing.	\$ 1,000,000	2022-2027		DR
70	2483	Dutch Flat #2 Powerhouse Backup Generator	Design and install a new backup generator.	Design	LV switchgear ordered but delayed to October 2024 due to material delays. Requested call with the manufacturer as this will cause a delay of the project into 2025.	\$ 100,000	2023-2024		TTH
68	2598	Chicago Park Powerhouse RTU Replacement	Chicago Park Powerhouse RTU Replacement: Replace remote terminal unit (RTU) at Chicago Park Powerhouse to eliminate obsolete equipment and improve the District's SCADA communication network.	Design	90% drawing review completed. Initial long lead time, BOM purchased and received. Materials were handed off to Mesa Inc. for the build and preliminary testing. Additional BOM will be forwarded to purchasing. Construction to occur during the annual maintenance outage.	\$ 200,000	2023-2024		TTH
82	2655	Chicago Park Powerhouse Refurbishment	Replace or upgrade the existing turbine, main transformer, and their appurtenances. Replace deteriorated generator windings, insulation, poles, and other generator appurtenances. The last rewind was completed in 1991, and test results are showing signs of needing to complete another.	Planning	Specification development and procurement for a new GSU transformer will begin in 2024. Planning is underway to replace the switchgear.	\$ 1,000,000	2023-2025		ND
75	2392	Rollins Powerhouse Governor	Replace or upgrade the existing governor and appurtenances.	Design	Four proposals were received in April and are being evaluated by a panel of staff. Design will begin in late spring-summer, 2024.	\$ 200,000	2023-2024		ND
68	2432	New Hydro Field Office	Complete office/building renovations, make repairs to the roof, install perimeter fencing, upgrade communications, and install a backup generator.	Planning	An RFP for roof repairs is being developed. Final vegetation removal is being scheduled to clear the property line so survey work can resume. A conceptual layout for the building interior was finalized in 2023. Design is anticipated to start in late 2024.	\$ 750,000	2023-2025		ND

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CIP Budgeted Projects (Hydro)

	2658	French Lake LLO Gate Improvements	The existing hydraulic lines, pump, and ram are showing signs of degradation and must be refurbished or replaced to ensure proper and safe operation of the low-level outlet valve for French Lake and to mitigate potential maintenance-related failures.	Planning	FERC QIC work plan being developed. Hydro to review and then submit for expedited approval. August 12 is the target date to lower reservoir levels and have divers do inspection and work.	\$ 200,000	2024-2025		AS
69	2339	Rucker Creek Spillgate	Replace existing radial gate at Rucker Creek Diversion with an overshot gate to improve safety and operational performance	Planning	Final Plans and Specifications completed and sent to FERC on September 29 for review and approval.	\$ -	TBD		DR
	2359	Bowman North Dam Upstream Lining Improvements	Repair the failing lining on the upstream face of Bowman North Dam that has been damaged by extreme freeze/thaw action of the concrete. Repairs are required by the DSOD	Planning	Developing options for repairs based type/size of damage. Anticipate this to take multiple years based on elevations of reservoir. Work this year expected in Sept/Oct.	\$ 100,000	2024-2025		LC
	2395	Deer Creek Powerhouse Exciter Replacement	Replace the failing exciter at Deer Creek Powerhouse	Planning	Staff are preparing a budget amendment to include the project in the 2024 CIP and begin work and order long lead time materials this summer. An RFP for Engineering services will be developed in May 2024.	TBD	2024-2025		ND

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Budgeted Projects (Non-Capital)

01	2611	Plan for Water Hydrology	Updating the existing unimpaired hydrology and HEC-ResSim reservoir operations model and development of a land-use-based integrated demand model.	Planning	The consultant is finalizing technical documents on various processes developed for the PFW and are expected mid-May, 2024.	\$ 316,271	2022-2024	All	DR
02	N/A	Capacity Fee Study	Updating the existing unimpaired hydrology and HEC-ResSim reservoir operations model and development of a land-use-based integrated demand model.	Study	Staff gathering documentation for consultant. Working on 5-yr CIP to inform study. Taking 5-YR CIP to Board on May 22, 2024 .	\$ 32,950	2024	All	DR
03	N/A	Water Rate Study	Development of a comprehensive capacity charge update study designed to recover cost of infrastructure and assets benefitting new development.	Study	Staff gathering documentation for consultant. Working on 5-yr CIP to inform study. Taking 5-YR CIP to Board on May 22, 2024.	\$ 44,500	2023-2024	All	DR

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Developer Installed Private Fire Service (PFS)									
02	2649	Perry Builders	Installation of a 6-inch Private Fire Service	Design	Waiting on plan submittal.	N/A		5	TTH
03	2686	Ranch House	Installation of 8-inch Private Fire Service	Plan Check	First plan check review in process.	N/A		1	AS
04	2695	Driftwood Village	Installation of an 8-inch Private Fire Service	Planning	Initial comments returned to consultant.	N/A		4	TTH
05	2694	MEC Storage Facility	Installation of a 6-inch Private Fire Service	Planning		N/A		5	ND
Developer Installed Waterline Extensions									
01	2566	Queen Lil Place	Installation of approx 695 lf of 8-inch waterline, 486 lf of 4-inch waterline and 1 fire hydrant	Plan-Check	Waiting for easement and design changes to place pipe on private road (Developer).	N/A		1	AS
02	2543	Loma Rica Ranch	Installing approximately 9,700 lf of waterline, 17 fire hydrants, 1 PRV station, 235 new services	Construction	Construction has started. All distribution pipe installed. One third of service is complete. Work on PRV has started.	N/A		1	DR
03	2613	Towntalk Village	Installing approximately 935 lf of waterline on Towntalk Rd. 221 lf of 4-inch, 1 fire hydrant, and all appurtenances. 11 new services.	Plan-Check	Nelson Engineering to provide final documents.	N/A		1	AS
04	2642	Kemper Oaks II	Installation of approximately 2,000 lf of 8-inch and 300 lf of 10-inch, five public fire hydrants, and all appurtenances to serve 47 new lots.	Plan-Check	Plans approved for Phase I. Developer will renew the project with the County and resume with future phase planning. Spill and access easements received.	N/A		4	AS
Developer Installed Canal Encasements									
01	2429	Lincoln Meadows Subdivision	Encase Lincoln Canal through Lincoln Meadows Subdivision parcel	Post Construction	Improvements made to inlet structure and spill. Need Easements.	N/A		4	DR
02	2608	Hemphill Canal Encasement	Encase Hemphill Canal through Esplanade	Pre-Construction	Board approval of Conveyance Agreement will be requested at the March 27, 2024 Board Meeting.	N/A		4	TTH
03	2679	Allison Ranch Canal	GV RV Resort Canal Enclosure	Planning	Plans ready for approval - pending signed and stamped easements from developer.	N/A		5	AS