

Engineering & Hydroelectric Project Status Report
August 15, 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	All electrical conduits have been installed and asphaltting completed. Building generator structure walls installed. Waiting for TESCO to provide a schedule for delivery	\$ 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	Bids for the Orr Creek replacement received on August 16, 2024. Will seek Board approval of contract at August 28, 2024 meeting. Waiting for permits. Construction is expected to start September-October this year. Dry Creek design will begin in 2025. Construction rescheduled to 2026. Rock Creek siphon design start in the middle 2026, with construction rescheduled to 2027.	\$ 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.	\$ 100,000	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.	Close-out	Pipeline in service. Final touch-up on roads by Maintenance. All Easements acquired.	\$ 110,000	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	Close-out	Notice of Completion recorded. Pipe is in service. Finalizing Easements.	\$ 1,011,880	2024	2	AS
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.	Construction	Main line will be completed by August 16, 2024. Construction will continue on service lines and appurtenances. Contractor remains on track with their schedule for completion October 31, 2024.	\$ 1,449,574	2024	4	TTH

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57	2602	DS Canal Shotgun Culverts	Replace existing Shotgun culverts with 4' x 8' Box Culvert to allow for higher summer flows.	Pre-Construction	Box culverts delivered to Grass Valley Yard. Installation to be scheduled.	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 the survey. Met with Woodrogers. They are going to verify that information such as rocks, fences, etc were captured in the survey data. NID will review the survey footprint if tree infill is required on all or if it can be reduced.	\$ 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 the survey. Met with Woodrogers. They are going to verify that information such as rocks, fences, etc were captured in the survey data. NID will review the survey footprint if tree infill is required on all or if it can be reduced.	\$ 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	RFP in progress and should be released week of August 19, 2024.	\$ 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	Previous design revised and reviewed internally. Bidding in August and construction in September-October 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

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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	Hughes Road and Litton Extension plans are under review. Out to bid in late August 2024. Notice of Exemption filed.	\$ 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	Received final compliance plan and had meeting with consultant. Waiting for proposal for design and procurement.	\$ 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	Request for Proposals sent to seven firms, and posted on the District's website. Proposals are due September 26, 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.	\$ 65,000	2024-2025	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	District formally submitted relocation plans to Caltrans for approval. Construction to start Fall 2025. Caltrans Encroachment permit will be needed.		2025	5	AS

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84	2094	Scotts Flat Spillway	Design and replacement of Scotts Flat Spillway	Design	Received comments from DSOD on the 60% submittal, along with comments regarding the upper plunge pool. Comments will be responded to and included in the 90% design submittal. CEQA/NEPA development is ongoing. Scheduling meeting with DSOD to discuss required replacement of upper plunge pool. Potential for additional scope and costs for the upper plunge pool design.	\$ 1,000,000	2022-2027		DR
70	2483	Dutch Flat #2 Powerhouse Backup Generator	Design and install a new backup generator.	Design	LV switchgear will arrive at the start of the outage. Hydro is gearing up for installation. Design work in progress.	\$ 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	BOM purchased. 100 percent drawings received. MESA working on build and configuration. Construction will occur during the annual 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.	\$ 500,000	2023-2025		ND
75	2392	Rollins Powerhouse Governor	Replace or upgrade the existing governor and appurtenances.	Design	Contract award was approved by the NID Board of Directors on June 12, 2024. The contract has been distributed for signatures in August and a kickoff meeting will be scheduled once fully executed. Design will begin in 2024.	\$ 200,000	2023-2024		ND

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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.	Pre-Construction	A contract for the roof repair scope of work was approved by the NID Board of Directors on August 14th and Notice of Award issued to Contractor. 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
	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	Due to PG&Es damaged infrastructure, unable to reduce the water level to a safe level for divers to perform the work this year. Divers will inspect and take photos this fall so a plan to remove and replace can be done. Construction to take place in 2025. FERC work report to be submitted beginning of 2025.	\$ 50,000	2024-2025		AS
	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	FERC approval is pending. Hydro Maintenance Staff is performing maintenance level work on joints and surficial spalls as the reservoir elevation falls.	\$ 100,000	2024-2025		LC
	2395	Deer Creek Powerhouse Exciter Replacement	Replace the failing exciter at Deer Creek Powerhouse	Planning	Proposals for engineering design and integration services were received in late July and were evaluated by a panel of staff to choose a vendor for award. A budget amendment to include the project in the 2024 CIP and contract will go before the NID Board of Directors for approval on August 28, 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	Received final technical documents from the consultant. Will post on the District's website. The next public meeting will be scheduled for September.	\$ 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. Presented draft 5-YR CIP to the Board on May 22, 2024. Capacity study by fourth quarter 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 the consultant. Presented draft 5-YR CIP to the Board on May 22, 2024. 5-YR CIP to consultant for water rate study.	\$ 44,500	2023-2024	All	DR

Developer Installed Private Fire Service (PFS)

01	2649	Perry Builders	Installation of a 6-inch Private Fire Service	Design	Waiting for Title Insurance.	N/A		5	TTH
02	2686	Ranch House	Installation of 8-inch Private Fire Service	Construction	Precon meeting conducted; still waiting for permits.	N/A		1	AS
03	2695	Driftwood Village	Installation of an 8-inch Private Fire Service	Planning	Received second plan submittal.	N/A		4	TTH
04	2700	Sienna Terrace	Installation of a 6-inch Private Fire Service	Pre-Construction	Precon meeting scheduled	N/A		4	ND

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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	Close out	Construction completed. Waiting for subdivision map to record.	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 signed conveyance agreement. Plans approved.	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
05	2707	Ventana Sierra Drive	Developer Installed Waterline Extension of approximately 550 lineal feet of waterline, including one public fire hydrant and all appurtenances to serve new lots.	Planning	Plans submitted for plan check	N/A		1	AS
06	2708	Sherwin Williams	Installation of approximately 160 lineal feet of waterline, including a private fire service to serve Sherwin Williams.	Planning	Plans submitted for plan check	N/A		1	TTH

Developer Installed Canal Encasements

02	2608	Hemphill Canal Encasement	Encase Hemphill Canal through Esplanade	Construction	Contractor has received final punch list items.	N/A		4	TTH
03	2679	Allison Ranch Canal	GV RV Resort Canal Enclosure	Planning	Plans approved - waiting on conveyance agreement.	N/A		5	AS