

**Engineering Department Project Status Report  
October 31, 2023**

Priority Score	Project No.	Project Name	Description	Status	Comments	Current Year Budget	Budget Years	DIV	PM
<b>CIP Budgeted Projects</b>									
65	7032	Hemphill Diversion Fish Passage	Removal of the existing diversion structure, construction of a rock ramp fish passage, installation of cone screen, site stabilization	Close-out	Repair to the scour hole and addition of large boulders along the sheet pile were completed October 20, 2023.	\$ 974,493	22/23	4	TTH
71	2645	Combie Ophir Siphons 2 & 3	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	Stantec submitted the final Alternative Analysis Report. ECorp anticipating field work to begin in November, 2023, for all three Siphons. NID Survey crew to finish survey of Orr and Dry Creek and complete data transfer to Drafting by end of year. Future work in 2024 includes design for Dry Creek and Orr Creek Siphon, and replacement of the Orr Creek Siphon. 2025 replacement of the Dry Creek Siphon, and in 2026 replacement of the Rock Creek Siphon.	\$ 170,000	2023	4	AS
67	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	Anticipate design will begin in November 2023.	\$ 43,853	2023	n/a	DR
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	RFQ	Rebidding project in November 2023. Potential canal crossing changes based on internal discussions.	\$ 13,600	2023	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	RFQ	Rebidding project in November 2023.	\$ -	2023	4	TTH
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.	Design	Plan check #1 in route. Right of way in process for non-participating parcels.	\$ -	2023	4	TTH
60	2376	North Auburn Treatment Plant	Rebuild the motor control center for highlift pumps and convert to variable frequency drives.	Pre-Construction	Notice to Proceed issued. Electrical items potentially have a year-long backlog. Met with PG&E in field on September 28. Construction to begin in November, 2023.	\$ 900,000	22/23	3	AS

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57	8262	Lincoln Canal Upgrades	Replace various crossing that are deteriorated and undersized for flows, Modify inlet structures.	Construction	Majority of crossings are related cleaning and/or upsizing culverts. Fowler Siphon replacement close to completion by Maintenance crews (12" replaced with new 20" pipe.)	\$ 300,000	2023	4	AS
57	2602	DS Canal Shotgun Culverts	Replace existing Shotgun culverts with 4' x 8' Box Culvert to allow for higher summer flows.	Design	Box Culvert ordered September 29, 2023. Installation in 2023 depends on delivery date anticipated in four (4) to 10 weeks from approval of shop drawings. Shop drawings are under review.	\$ 200,000	22/23	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	Survey crews in the field on October 2, 2023 through November 30, 2023. Residents notified.	\$ 35,000	2023	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	Survey crews in the field on October 2, 2023 through November 30, 2023. Residents notified.	\$ 148,500	2023	1	TTH
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. The portion within Highway 174 shoulder is installed and has been paved. Work progressing west along North Day Road.	\$ 405,000	22/23	2	AS
40	6958	Newtown Reservoir	Project will remove approximately 5,900 cubic yards of sediment from reservoir and modification of inlet structure and realignment of bypass piping. Removal of two existing above-ground control valves. And concrete block headwall	Planning	ROW received appraisal for northern side of reservoir. Plats and Legal Descriptions for south side to follow. Construction anticipated to begin by August 2024.	\$ 25,000	2023	1	AS
50	2550	Sugarloaf Reservoir	Project will install a new, permanent bypass and abandonment of reservoir due to sinkhole on the top of embankment, structural weakness, water leaking.	Construction	Maintenance crews approximately 85% complete, pouring concrete, adding steel for hand rail and trash racks.	\$ 120,000	2023		AS

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<b>CIP Budgeted Projects (Hydro)</b>									
84	2094	Scotts Flat Spillway	Design and replacement of Scotts Flat Spillway	Design	Submittal of 30% design and DSOD application was submitted on October 6th. In person discussion with DSOD on the 30% design proposed for December, along with discussion regarding upper plunge pool/weir. Work on the application for the DOE 247 grant completed. Stantec completed the project description and development of package to begin initiation of NEPA. Development of the 90% civil drawings on the access and staging areas ongoing and anticipate for NID review in November	\$ 1,700,000	2023		DR
71	2544	Dutch Flat #2 Powerhouse Cooling Water System	Upgrade the colling water system and integrate this into the BOP PLC. Replace analog gauges with HMI screen, new flowmeters and pressure transmitters, replace piping.	Construction	Construction began on September 17, 2023. Some materials still delayed and expected to arrive in 2024. Utilizing spare parts in the meantime.	\$ 300,000	22/23		TTH
70	2483	Dutch Flat #2 Powerhouse Backup Generator	Design and install a new backup generator.	Design	Design has been completed by consultants. A bill of materials has been developed. Bids for the new switchgear have been received. The low voltage switchgear was ordered on April 24, 2023 and is expected to be delivered in about 40 weeks. Remaining bill of materials will be procured in 2024. Material quantities will be confirmed.	\$ 100,000	2023		TTH
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.	\$ 250,000	22/23		DR
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	Project design is underway. The 50% design is expected in November. Design will continue into early 2024. Construction is scheduled for the Fall of 2024.	\$ 400,000	22/23		TTH
64	6943	Combie South Powerhouse Access Road	Improve the access road to the Combie South Powerhouse for operations, maintenance, and emergency services. Acquire necessary easements	Construction	Hansen completed the final erosion control addition. Waiting for keypad delivery. Keypad installation will complete the automatic gate items. Project is otherwise complete.	\$ 250,000	22/23		AS

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<b>Budgeted Projects (Non-Capital)</b>									
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	Unimpaired Hydrology, climate data, and demand model have been developed. Working on option strategies.	\$ 800,000	22/23	All	DR
02	n/a	Capacity Fee 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 Pipeline Reimbursement fees to be included in overall fee structure.	\$ 20,000	22/23	All	DR
03	n/a	Water Rate Study	Development of a comprehensive water rate study to evaluate rate alternatives and impacts to support the District's projected operating and capital funding needs.	Study	Contract with consultant signed. Working on a 5-year budget and CIP for consultant	\$ 44,500	2023	All	DR
04	n/a	Lower Cascade Canal-Upper Grass Valley Canal MMRP	Final year of ten year Canopy Cover and Tree Health Assessment for the LCC/UGVC	Study	Consulting Services Agreement executed with Stantec for the final tree health assessment.	\$ 40,000	2023	1	DR
<b>CIP Budgeted Projects - Completed</b>									
	6971	Alta Sierra Tank Site	Replace the existing Hypalon-covered reservoir with a 3MG storage tank	Close-out	Close-out in process.	\$ 489,110	22/23	2	DR
71	2322	David Way Pump Station	Replace the badly deteriorated pump station with separate pumps for domestic demands and fire flows.	Completed	Project complete.	\$ 100,000	22/23	3	AS
61	2434	Table Meadow III DFWLE	Design and construct approximately 3,300 feet of 8-inch treated waterline and three fire hydrants to serve 21 parcels on Table Meadow Rd. Place. Pavement restoration. Final phase of three.	Completed	Project complete.	\$ 825,000	2023	3	AS
58	2504	Ramp Repairs - Main Office - Admin	Existing ramp is failing and requires extensive reconstruction. Replace ramp to current design standards, add ADA compliant parking and sidewalk	Completed	Project complete.	\$ 437,647	22/23	n/a	DR
55	2624	Squirrel Creek Siphon	Replace extremely deteriorated, leaking pipes.	Completed	Project complete.	\$ 399,213	22/23	5	AS

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<b>Developer Installed Private Fire Service (PFS)</b>									
01	2610	JCC International	Installation of a 6-inch Private Fire Service	Construction	Construction 90% complete. Waiting for FPS box.	N/A	N/A	4	TTH
02	2640	49 Self Storage	Installation of a 6-inch Private Fire Service	Completed	Project Complete. Will be removed from future status reports.	N/A	N/A	2	AS
03	2641	Grass Valley RV Resort	Installation of a 6-inch Private Fire Service	Construction	Agreement in place. Precon meeting needs to be scheduled.	N/A	N/A	5	TTH
04	2649	Perry Builders	Installation of a 6-inch Private Fire Service	Design	Waiting on plan submittal.	N/A	N/A	5	TTH

**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	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	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	Final plan comments from NID to be incorporated by Nelson Engineering	N/A	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 ready for final approval. Spill and access easements received.	N/A	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	N/A	4	DR
02	2608	Hemphill Canal Encasement	Encase Hemphill Canal through Esplanade	Plan-Check	Plan check #3 received. No additional design comments. Waiting on ROW from the developer.	N/A	N/A	4	TTH
03	2679	Allison Ranch Canal	GV RV Resort Canal Enclosure	Planning	Plans ready for approval - pending review of easement limits.	N/A	N/A	5	AS