

CAPITAL IMPROVEMENT PLAN

Wastewater Master Plan Update

City of New Meadows



ID#	Project Name	Purpose	Total Estimated Cost (2026 Dollars)
Priority 1A Improvements			
T1A.1	Lagoon Cell #3 Improvements	At Lagoon Cell #3, replace valves for improved isolation, remove accumulated sludge, replace the lagoon liner, perform a seepage test, and install a new lagoon cover, and complete necessary repairs.	\$ 1,243,000
T1A.2	Lagoon Cell #1 and #2 Improvements	At Lagoon Cells #1 and #2, remove accumulated sludge and perform seepage tests as needed. If required, patch Lagoon Cell #1 HDPE line, replace Lagoon #2 clay liner, and complete necessary repairs.	\$ 1,610,000
T1A.3	Lagoon Blower and Diffuser Improvements	Replace end-of-life and nonfunctioning blowers and diffusers in Lagoon Cells #1, #2, and #3 to improve efficiency and reliability and provide some additional capacity for growth.	\$ 1,821,000
C1A.1	I/I Collection System Improvements	Coat manholes with protective coating and complete targeted repairs to the collection system to reduce infiltration and inflow (I/I).	\$ 200,000
T1A.4	Administration Building	Purchase an existing shop building near the wastewater treatment facility.	\$ 250,000
Total Priority 1A Improvements (rounded)			\$ 5,124,000
Priority 1B Improvements			
T1B.1	Site and Security Improvements	Install new chain-link fencing and gates and improve access pathways to the outfall and reuse pump station.	\$ 407,000
T1B.2	Chemical Building Improvements	Improve the chemical building to provide adequate indoor chemical storage and upgrade associated instrumentation.	\$ 301,000
T1B.3	Supplemental Irrigation Water	Drill a groundwater well to supply supplemental irrigation water; water can also be used for washdown at the reuse pump station	\$ 1,352,000
Total Priority 1B Improvements (rounded)			\$ 2,060,000
Priority 1C Improvements			
T1C.1	Utility Water System	Install a utility water system to provide non-potable water for wastewater treatment facility operations and maintenance.	\$ 493,000
T1C.2	Headworks Replacement	Replace the existing headworks to increase capacity and provide redundancy. Include gas detection and freeze protection.	\$ 1,836,000
T1C.3	Vactor Truck Dump Station	Construct a Vactor truck dump station to provide a designated location for disposal of material collected during sewer system cleaning and maintenance.	\$ 227,000
T1C.4	SCADA Improvements	Modernize the existing SCADA system by replacing outdated components and adding new components to improve monitoring and control of the wastewater treatment process.	\$ 330,000
T1C.5	Backup Generator	Add backup generator to maintain operation of the majority of the plant if there is a loss of power.	\$ 785,000
Total Priority 1C Improvements (rounded)			\$ 3,178,000
Priority 2 Improvements			
T2.1	Wastewater Master Plan Update	Evaluate new issues and timing for improvements. Reevaluate MBR versus expanding current lagoon treatment and disposal if land is available.	\$ 120,000
T2.2	Future Treatment Capacity	Increase treatment capacity to accommodate future growth. The cost shown assumes a membrane bioreactor (MBR) treatment system because land for lagoon expansion may not be available. If suitable land becomes available, the City could instead expand its existing lagoon treatment system while continuing winter discharge and summer land application.	\$ 43,737,000
Total Priority 2 Improvements (rounded)			\$ 43,857,000
PRIORITY 1 & 2 IMPROVEMENTS COSTS (rounded)			\$ 54,219,000

Notes

Definitions: C = Collection System, T = Wastewater Treatment Plant

1 - Timing of these capital improvement projects depends on when growth occurs. It is anticipated the future development will participate in capital improvement projects as required.

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Project Title:		Location:	
Lagoon Cell #3 Improvements		WWTP Lagoon 3	
Project Identifier:			
T1A.1			
Need for Project: The seepage test for Lagoon Cell #3 failed and the liner needs to be repaired. The sludge has not been removed and may be affecting the treatment. There is no way to completely isolate Cell #3.			
Objective: Add valves to isolate Lagoon Cell #3 for repairs. Remove sludge and repair or replace the Lagoon Cell #3 liner. Install a baffle and cover to part of Lagoon Cell #3 to improve effluent quality.			
Design Considerations: Bypassing Lagoon Cell #3 may affect treatment, so construction should be expedited.			
General Line Item			Total Cost (2026 Dollars)
Sludge Removal for Lagoon Cell #3			\$ 140,000
Isolation Valves			\$ 15,000
Lagoon Cell #3 Liner Replacement			\$ 254,000
Lagoon Cell #3 Baffle and Cover			\$ 110,000
Construction Subtotal			\$ 519,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 52,000	
Contingency	30%	\$ 171,000	
Contractor Overhead and Profit	15%	\$ 111,000	
Federal Funding Requirements	5%	\$ 43,000	
Additional Elements Subtotal			\$ 377,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 134,000	
Engineering - Construction Services	5%	\$ 52,000	
Engineering - Observation (assumes 8 hours/day, 4 months construction)	LS	\$ 125,000	
Legal, Administrative, and Funding	3%	\$ 36,000	
Plans and Contract Documents Subtotal			\$ 347,000
Total Project Costs (rounded)			\$ 1,243,000

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Project Title:		Location:	
Lagoon Cell #1 and #2 Improvements		WWTP Lagoons	
Project Identifier: T1A.2			
Need for Project: Sludge removal for installation of new diffusers. Seepage rate is near the limit for Cell #2 and miscellaneous repairs may be needed for Cell #3.			
Objective: Remove sludge from Lagoon Cells #1 and #2. Liner replacement for Cell #2 and miscellaneous repairs for Cell #3.			
Design Considerations: Sludge may not have been removed from the lagoons, but its removal would improve the installation of the new diffusers.			
General Line Item			Total Cost (2026 Dollars)
Sludge Removal for Lagoon Cells #1 and #2			\$ 325,000
Lagoon Cell #1 HDPE Liner Repairs			\$ 50,000
Lagoon Cell #2 Clay Liner Replacement			\$ 254,000
Construction Subtotal			\$ 629,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 63,000	
Contingency	30%	\$ 208,000	
Contractor Overhead and Profit	15%	\$ 135,000	
Federal Funding Requirements	5%	\$ 52,000	
Additional Elements Subtotal			\$ 458,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 163,000	
Engineering - Construction Services	5%	\$ 63,000	
Engineering - Observation (assumes 8 hours/day, 8 months construction)	LS	\$ 250,000	
Legal, Administrative, and Funding	3%	\$ 47,000	
Plans and Contract Documents Subtotal			\$ 523,000
Total Project Costs (rounded)			\$ 1,610,000

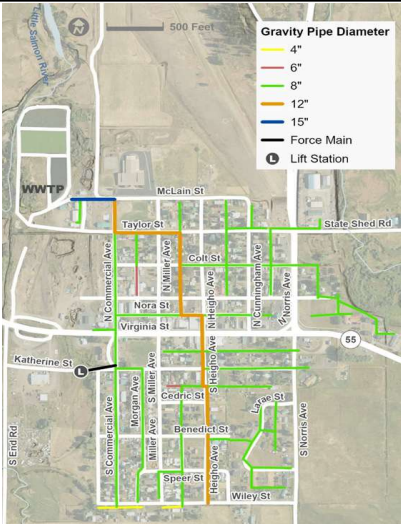
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Project Title:		Location:	
Lagoon Blower and Diffuser Improvements		WWTP Lagoons	
Project Identifier: T1A.3			
Need for Project: The lagoons, including blowers and diffusers, are currently at treatment capacity. The blowers and diffusers are old and beyond their useful life. Algae can impact the effluent quality.			
Objective: Upgrade the treatment capacity of lagoons through aeration improvements. The blowers would be operated on variable frequency drives, which would allow the blower output and electricity usage to be ramped up and down based on dissolved oxygen requirements. The blowers would be operated on variable frequency drives, which would allow the blower output and electricity usage to be ramped up and down based on dissolved oxygen requirements.			
Design Considerations: Consider adding the backup generator in this phase to keep the plant running.			
General Line Item			Total Cost (2026 Dollars)
Replace Blowers			\$ 400,000
Replace Diffusers			\$ 328,000
Construction Subtotal			\$ 728,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 73,000	
Contingency	30%	\$ 240,000	
Contractor Overhead and Profit	15%	\$ 156,000	
Federal Funding Requirements	5%	\$ 60,000	
Additional Elements Subtotal			\$ 529,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 189,000	
Engineering - Construction Services	5%	\$ 72,000	
Engineering - Observation (assumes 8 hours/day, 8 months construction)	LS	\$ 250,000	
Legal, Administrative, and Funding	3%	\$ 53,000	
Plans and Contract Documents Subtotal			\$ 564,000
Total Project Costs (rounded)			\$ 1,821,000

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Project Title:		Location:	
I/I Collection System Improvements		Collection System	
Project Identifier: C1A.1			
Need for Project: The collection system experiences high infiltration and inflow (I/I) during the spring primarily from snowmelt and high groundwater levels. The high I/I influent is dilute, which makes achieving a percent removal permit requirement more challenging.			
Objective: Make spot I/I reduction repairs to the collection system, including coating several manholes.			
Design Considerations: Locate the most problematic areas during the spring season when I/I is typically the highest.			
General Line Item		Total Cost (2026 Dollars)	
Collection System I/I Removal Repairs		\$ 200,000	
Total Project Costs (rounded)		\$ 200,000	

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Project Title:		Location:	
Administration Building		WWTP	
Project Identifier: T1A.4			
Need for Project: There is not sufficient facilities for the wastewater site operations.			
Objective: Provide a new administration building with work space for wastewater operations.			
Design Considerations: There is a pre-fab metal shop available for purchase. The City already owns the land and has an agreement with the building owner to purchase the building for a specified price.			
General Line Item			Total Cost (2026 Dollars)
Building Acquisition Cost			\$ 250,000
Construction Subtotal			\$ 250,000
Additional Elements			
Mobilization and General Conditions	0%	\$ -	
Contingency	0%	\$ -	
Contractor Overhead and Profit	0%	\$ -	
Federal Funding Requirements	0%	\$ -	
Additional Elements Subtotal			\$ -
Plans and Contract Documents			
Engineering - Design Services	0%	\$ -	
Engineering - Construction Services	0%	\$ -	
Engineering - Observation (assumes 8 hours/day, 4 months construction)	LS	\$ -	
Legal, Administrative, and Funding	0%	\$ -	
Building Acquisition Cost	LS	\$ -	
Plans and Contract Documents Subtotal			\$ -
Total Project Costs (rounded)			\$ 250,000

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Project Title:		Location:	
Site and Security Improvements		WWTP	
Project Identifier: T1B.1			
Need for Project: Site grading and gravel access improvements are needed to facilitate maintenance. Additional fencing is needed around Lagoon Cells No. 2 and No. 3 and the disinfection facilities. A gate and pathway are also needed to provide access to the outfall. Objective: Improve site grading and access pathways, including access to the outfall and reuse pump station. Install chain-link fencing and gates to improve site safety and security.			
General Line Item			Total Cost (2026 Dollars)
Site Improvements			\$ 70,000
Fencing			\$ 90,000
Construction Subtotal			\$ 160,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 16,000	
Contingency	30%	\$ 53,000	
Contractor Overhead and Profit	15%	\$ 34,000	
Federal Funding Requirements	5%	\$ 13,000	
Additional Elements Subtotal			\$ 116,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 41,000	
Engineering - Construction Services	5%	\$ 16,000	
Engineering - Observation (assumes 8 hours/day, 2 month construction)	LS	\$ 62,000	
Legal, Administrative, and Funding	3%	\$ 12,000	
Plans and Contract Documents Subtotal			\$ 131,000
Total Project Costs (rounded)			\$ 407,000

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Project Title:		Location:	
Chemical Building Improvements		WWTP	
Project Identifier: T1B.2			
Need for Project: The chemical building currently has space for only one drum, making chemical transfer difficult and limiting indoor storage capacity. The online chlorine residual monitor also needs to be updated. Objective: Improve the chemical building to provide adequate indoor chemical storage and facilitate chemical transfer. Upgrade the online chlorine residual monitor.			
General Line Item		Total Cost (2026 Dollars)	
Chlorine Building and Chlorine Monitor		\$	110,000
Construction Subtotal		\$	110,000
Additional Elements			
Mobilization and General Conditions	10%	\$	11,000
Contingency	30%	\$	36,000
Contractor Overhead and Profit	15%	\$	24,000
Federal Funding Requirements	5%	\$	9,000
Additional Elements Subtotal		\$	80,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$	29,000
Engineering - Construction Services	5%	\$	11,000
Engineering - Observation (assumes 8 hours/day, 2 month construction)	LS	\$	62,000
Legal, Administrative, and Funding	3%	\$	9,000
Plans and Contract Documents Subtotal		\$	111,000
Total Project Costs (rounded)		\$	301,000

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Project Title:		Location:	
Supplemental Irrigation Well		Land Application	
Project Identifier: T1B.3			
Need for Project: The City is unable to provide sufficient water for the current crop. There is also no water at the pump station for wash down activities.			
Objective: Provide an approved source of supplemental water for the crop. The irrigation well can also provide wash down water.			
Design Considerations: Consider locating the well near the current reuse pump station for accessibility and to minimize piping costs.			
General Line Item		Total Cost (2026 Dollars)	
Supplemental Irrigation Well		\$	600,000
Construction Subtotal		\$	600,000
Additional Elements			
Mobilization and General Conditions	10%	\$	60,000
Contingency	30%	\$	198,000
Contractor Overhead and Profit	15%	\$	129,000
Federal Funding Requirements	5%	\$	49,000
Additional Elements Subtotal		\$	436,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$	155,000
Engineering - Construction Services	5%	\$	60,000
Engineering - Observation (assumes 8 hours/day, 2 months construction)	LS	\$	62,000
Legal, Administrative, and Funding	3%	\$	39,000
Plans and Contract Documents Subtotal		\$	316,000
Total Project Costs (rounded)		\$	1,352,000

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Project Title:		Location:	
Utility Water System		Headworks Area	
Project Identifier: T1C.1			
Need for Project: To avoid contaminating the potable water supply, a separate utility water system should be used.			
Objective: Install a utility water system to supply non-potable water for facility operations and maintenance.			
Design Considerations: Confirm the water source, required uses, and distribution layout during design.			
General Line Item		Total Cost (2026 Dollars)	
Utility Water System		\$ 200,000	
Construction Subtotal		\$ 200,000	
Additional Elements			
Mobilization and General Conditions	10%	\$ 20,000	
Contingency	30%	\$ 66,000	
Contractor Overhead and Profit	15%	\$ 43,000	
Federal Funding Requirements	5%	\$ 16,000	
Additional Elements Subtotal		\$ 145,000	
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 52,000	
Engineering - Construction Services	5%	\$ 20,000	
Engineering - Observation (assumes 8 hours/day, 2 months construction)	LS	\$ 62,000	
Legal, Administrative, and Funding	3%	\$ 14,000	
Plans and Contract Documents Subtotal		\$ 148,000	
Total Project Costs (rounded)		\$ 493,000	

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Project Title:		Location:	
Headworks Replacement		Headworks Area	
Project Identifier: T1C.2			
Need for Project: The existing headworks lacks a manual screen bypass channel. The building has freezing and odor issues and does not have a combustible gas detector. The influent screen is also projected to approach capacity near the end of the 20-year planning period.			
Objective: Replace the headworks with a building and influent screening equipment sized for projected wastewater flows. Provide a second screening channel for redundancy, along with combustible gas detection and HVAC improvements to address freezing and odors.			
Design Considerations: The new headworks building floor elevation should be above the floodplain.			
General Line Item			Total Cost (2026 Dollars)
Headworks Upgrades			\$ 765,000
Construction Subtotal			\$ 765,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 77,000	
Contingency	30%	\$ 253,000	
Contractor Overhead and Profit	15%	\$ 164,000	
Federal Funding Requirements	5%	\$ 63,000	
Additional Elements Subtotal			\$ 557,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 198,000	
Engineering - Construction Services	5%	\$ 76,000	
Engineering - Observation (assumes 8 hours/day, 6 months construction)	LS	\$ 187,000	
Legal, Administrative, and Funding	3%	\$ 53,000	
Plans and Contract Documents Subtotal			\$ 514,000
Total Project Costs (rounded)			\$ 1,836,000

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Project Title:		Location:	
Vactor Truck Dump Station		Headworks Area	
Project Identifier: T1C.3			
Need for Project: The wastewater treatment facility lacks a designated location to safely discharge material collected by Vactor trucks during sewer cleaning and maintenance.			
Objective: Construct a Vactor truck dump station for controlled unloading and handling of collected material.			
Design Considerations: Provide truck access and a layout that allows safe unloading and maintenance. Determine how liquids and solids will be collected and managed during design.			
General Line Item		Total Cost (2026 Dollars)	
Vactor Truck Dump		\$	75,000
Construction Subtotal		\$	75,000
Additional Elements			
Mobilization and General Conditions	10%	\$	8,000
Contingency	30%	\$	25,000
Contractor Overhead and Profit	15%	\$	16,000
Federal Funding Requirements	5%	\$	6,000
Additional Elements Subtotal		\$	55,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$	20,000
Engineering - Construction Services	5%	\$	8,000
Engineering - Observation (assumes 8 hours/day, 2 months construction)	LS	\$	62,000
Legal, Administrative, and Funding	3%	\$	7,000
Plans and Contract Documents Subtotal		\$	97,000
Total Project Costs (rounded)		\$	227,000

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Project Title:		Location:	
SCADA Improvements		WWTP	
Project Identifier: T1C.4			
Need for Project: The City's SCADA system is limited to the headworks equipment and flow measurements, chlorine dosing, chlorination and dechlorination dosing, and alarms.			
Objective: Modernize the SCADA system to provide monitoring of the headworks, treatment, disinfection system, and reuse system.			
Design Considerations: The SCADA system should also be compatible with the water system.			
General Line Item			Total Cost (2026 Dollars)
SCADA Improvements			\$ 150,000
Construction Subtotal			\$ 150,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 15,000	
Contingency	30%	\$ 50,000	
Contractor Overhead and Profit	15%	\$ 32,000	
Federal Funding Requirements	5%	\$ 12,000	
Additional Elements Subtotal			\$ 109,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 39,000	
Engineering - Construction Services	5%	\$ 15,000	
Engineering - Observation (assumes 8 hours/day, 1 week)	LS	\$ 7,000	
Legal, Administrative, and Funding	3%	\$ 10,000	
Plans and Contract Documents Subtotal			\$ 71,000
Total Project Costs (rounded)			\$ 330,000

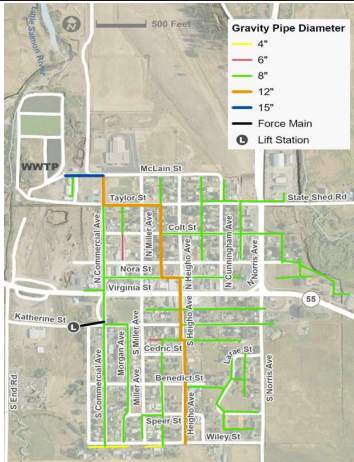
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Project Title:		Location:	
Backup Generator		WWTP	
Project Identifier: T1C.5			
Need for Project: There is no backup generator to power the headworks screen or blowers in the event of a loss of power.			
Objective: Add backup generator to maintain operation of the plant if there is a loss of power.			
Design Considerations: Generator placement should minimize cable length, but also take into account engine noise.			
General Line Item			Total Cost (2026 Dollars)
Backup Generator			\$ 200,000
Electrical/Controls			\$ 150,000
Construction Subtotal			\$ 350,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 35,000	
Contingency	30%	\$ 116,000	
Contractor Overhead and Profit	15%	\$ 75,000	
Federal Funding Requirements	5%	\$ 29,000	
Additional Elements Subtotal			\$ 255,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 91,000	
Engineering - Construction Services	5%	\$ 35,000	
Engineering - Observation (assumes 8 hours/day, 1 month construction)	LS	\$ 31,000	
Legal, Administrative, and Funding	3%	\$ 23,000	
Plans and Contract Documents Subtotal			\$ 180,000
Total Project Costs (rounded)			\$ 785,000

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Project Title:		Location:	
Wastewater Master Plan Update		Collection System and WWTP	
Project Identifier: T2.1			
Need for Project: The wastewater system will need to be evaluated for capacity and operational concerns.			
Objectives: Evaluate new issues and timing for improvements.			
General Line Item			Total Cost (2026 Dollars)
WWMP Update			\$ 120,000
Total Project Costs (rounded)			\$ 120,000

The cost estimate herein is concept level information only based on our perception of current conditions at the project location and its accuracy is subject to significant variation depending upon project definition and other factors. This estimate reflects our opinion of probable costs at this time and is subject to change as the project design matures. This cost opinion is in **2026** dollars and does not include escalation to time of actual construction. Keller Associates has no control over variances in the cost of labor, materials, equipment, services provided by others, contractor's methods of determining prices, competitive bidding or market conditions, practices or bidding strategies. Keller Associates cannot and does not warrant or guarantee that proposals, bids, or actual construction costs will not vary from the cost presented herein.



Project Title:		Location:	
Membrane Bioreactor Treatment Improvements		WWTP	
Project Identifier: T2.2			
Need for Project: The membrane bioreactor (MBR) treatment improvements would be needed if the City continued to grow at the 20-year planning growth rate.			
Objective: Upgrade the treatment to mechanical MBR process through adding grit removal, fine screens, MBR treatment, UV disinfection, biosolids dewatering, and chillers for summer discharge.			
Design Considerations: Additional future permit requirements or other items at the plant may necessitate changes to this project.			
General Line Item			Total Cost (2026 Dollars)
Grit Removal and Fine Screens			\$ 1,000,000
Membrane Bioreactor Treatment			\$ 14,400,000
UV Disinfection			\$ 1,045,000
Biosolids Dewatering			\$ 2,900,000
Chillers			\$ 900,000
Construction Subtotal			\$ 20,245,000
Additional Elements			
Mobilization and General Conditions	10%	\$ 2,025,000	
Contingency	30%	\$ 6,681,000	
Contractor Overhead and Profit	15%	\$ 4,343,000	
Federal Funding Requirements	5%	\$ 1,665,000	
Additional Elements Subtotal			\$ 14,714,000
Plans and Contract Documents			
Engineering - Design Services	15%	\$ 5,244,000	
Engineering - Construction Services	5%	\$ 2,010,000	
Engineering - Observation (assumes 8 hours/day, 8 months construction)	LS	\$ 250,000	
Legal, Administrative, and Funding	3%	\$ 1,274,000	
Plans and Contract Documents Subtotal			\$ 8,778,000
Total Project Costs (rounded)			\$ 43,737,000

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