

City of Seldovia Capital Improvement Program 2024-2029

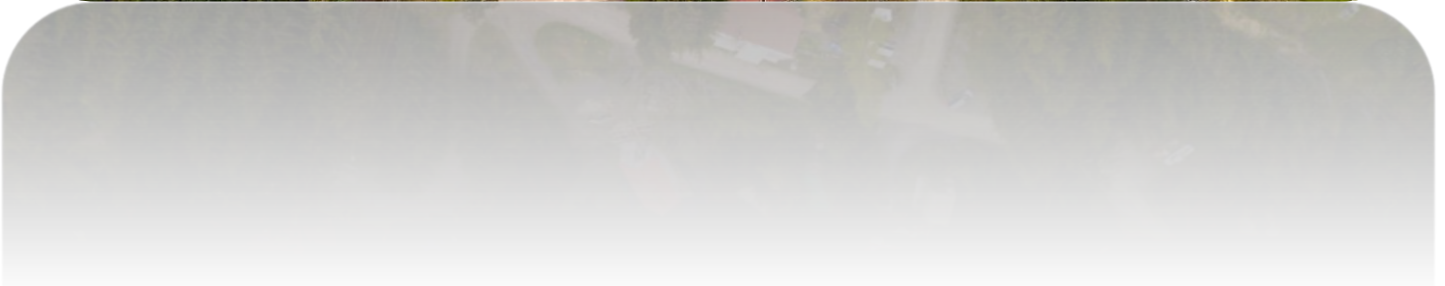


Table of Contents

<u>Introduction</u>		Pg. 5
<u>Legislative Requests- FY2025</u>		Pg. 6
	Priority	
<u>Facility Projects</u>	Level	Pg. 7
Roof Repairs City Office Awning	1	Pg. 8
Fuel Retail and Distribution Facility Roof Improvements	1	Pg. 9
Heavy Equipment Complex and Archive Storage out of the inundation zone	2	Pg. 10
Multipurpose Building Improvements Project	2	Pg. 11
City Office Energy Improvements Project	3	Pg. 12
Value-added building Industrial or Small Business Complex Completion	3	Pg. 13
<u>Rolling Stock</u>		
Backhoe Replacement Project	1	Pg. 14
Skid Steer with forklift and brush hog.	1	Pg. 15
Vacuum Truck- Super Sucker/dry vac with jetter	2	Pg. 16
<u>Surface Transportation Projects</u>		Pg. 17
Seldovia Safe Roads Program- Resurface Existing Community Roads and Identify Next Steps for Unimproved, Platted Rights-of-Way	2	Pg. 18
Harbor Parking Lot Improvements Project	1	Pg. 20
Creation of Master Storm Water and Drainage Management Plan	2	Pg. 21
Historic Boardwalk Improvements and Waterfront Expansion Project	3	Pg. 22
Spillum and Malcolm Subdivision Platted ROW Development Project	4	Pg. 23
<u>Quality of Life & Economic Development Capital Project Priorities</u>		Pg. 24
All Hazard Mitigation Plan Update	1	Pg. 25
Seldovia Ten Year Collaborative Economic Strategy Plan	2	Pg. 25
Comprehensive Plan and Zoning Code Update and Review	3	Pg. 25
Water and Sewer Utility System Mapping	3	Pg. 25
Improved Access to Lake Susan Pavilion Project	4	Pg. 26
Seldovia Wilderness RV Park and Outside Beach Campground Improvements Project	4	Pg. 26
<u>Special Revenue Fund Capital Projects</u>		Pg. 27
<u>Seldovia Small Boat Harbor</u>		
Jakolof Bay Dock Replacement	1	Pg. 28
Small Boat Harbor Float Improvements	1	Pg. 30
<u>Municipal Dock</u>		
Municipal Dock Improvements and Pedestal Crane Maintenance	1	Pg. 32
<u>Boat Haul Out and Storage</u>		
Boat Launch Repairs	2	Pg. 34
Boat Storage Yard Electric Meter Installation and Improvements	3	Pg. 35
<u>Water Capital Project Priorities</u>		
Water Treatment Plant Raw Water Transmission Line Replacement	1	Pg. 36
Airport Avenue Main Maintenance- Depth Correction	1	Pg. 38

CITY OF SELDOVIA CAPITAL IMPROVEMENT PROGRAM

2024-2029

Seldovia Upper Dam & Reservoir Improvements	1	Pg. 41
Vista Avenue Water Line Replacement	2	Pg. 44
Dock Street Main and Water Connection Line Improvements for freeze	2	Pg. 45
Winifred Avenue – Anderson Way – Shoreline Drive Water Line Replacement	3	Pg. 46
Spillum and Malcolm Subdivision Water Main Extension	4	Pg. 47
Frank Raby Water Main Extension	4	Pg. 48
<u>Wastewater Capital Project Priorities</u>		
Seldovia Slough Sewer Improvements Project	1	Pg. 49
Sewer Treatment Facility Improvements Project	1	Pg. 51
Bloch Street Sewer Line Replacement	1	Pg. 54
Vista Avenue Sewer Line Replacement	2	Pg. 58
Evaluation of Inlet Street, Illiamna Street, and Main Street Sewer Lines	3	Pg. 59
Spillum and Malcolm Subdivision Sewer Main Extension	4	Pg. 61
Frank Raby Sewer Main Extension	4	Pg. 62
<u>Collaborative Capital Projects and Partnerships</u>		
Commitment to Partnerships		Pg. 64
Increased Digital Equity through Access to Broadband	1	Pg. 65
ADA Improvements and Pedestrian Pathway/Sidewalk Expansion Project	2	Pg. 66
Ice Skating Rink Recreation Area	2	Pg. 66
Public Washeteria	3	Pg. 66
Public Art Installation at Central Park and Main Street	4	Pg. 66
<u>City Support for Non-Profit & Governmental Organizations’ Pursuit of Capital Project Funding</u>		
<u>Future Considerations</u>		Pg. 68
<u>Federal Grant Awards 2008 – 2023</u>		Pg. 70
<u>State Grant Awards 2021-2023</u>		Pg. 71
<u>State of Alaska Grant Awards 1981 – 2023 per DCRA</u>		Pg. 72

Progress made in FY23/FY24:

- Roof Repairs City Awning- initiated, should be complete in FY24
- Multipurpose Building Improvements Project- CDBG-CV for some improvements completed FY24
- Safe Roads- Collaboration with KPB SS4A program begins FY24, roads/transportation assessment will be initiated
- Creation of Master Storm Water and Drainage Management Plan- Grant received and project initiated at end of FY23 to be completed by FY25
- All-Hazards Mitigation Plan- applied for funding through DHHS, awards will be announced in FY24
- Planning Project for Evaluation of Water and Wastewater Utility Systems- Awarded FY24
- Construction Project for Seldovia Slough Sewer Improvements Project- Awarded FY24
- Design and Initial Construction Project for Sewer Treatment Facility Improvements Project- Awarded FY24
- Congressional Direct Spending partial funding awarded for Raw Water Transmission Line Replacement Project- FY23 (Partial funding for Bloch Street Sewer Replacement Project was awarded and requested to be combined with the Raw Water Line project as a technical request.)
- Resolution 24-18 passed for the Development of a Waterfront Ice Rink on City Property in partnership with SRSA and SOCC.

Projects completed:

- Refuse Truck- funding allocated and truck purchased in FY24

Introduction

A capital improvement program (CIP) is a long-term guide for capital project expenditures. A capital expenditure is a major, nonrecurring budget item that results in a fixed asset with an anticipated life of at least three years. Per Seldovia Municipal Code 2.14.020, the City Manager will prepare and submit an annual capital improvement program for consideration by the City Council and execute the program once adopted by Council.

The number of years over which capital projects are scheduled is called the capital programming period. It is a goal for the City of Seldovia's capital programming period to coincide with the State's, which is a six-year period.

A carefully prepared capital improvement program has many uses. It can assist a community to:

- Anticipate community needs in advance, before needs become critical.
- Rank capital improvement needs in order to ensure the most important projects are given consideration for funding before less critical projects.
- Provide a written description and justification for projects submitted for state funding so the legislature, governor and appropriate agencies have the information necessary to make decisions about funding capital projects.
- Provide the basis for funding capital projects as part of the City's budget process.
- Understand the impact of new capital projects on maintenance and operating costs so expenses are budgeted in advance to help avoid projects that the community cannot afford.
- Provide an 'institutional memory' of capital project needs for the City and its citizenry, increasing transparency and understanding of major projects prioritized by the community to address.

The City of Seldovia CIP contains a list of capital projects the community envisions for the future, identifies ways projects will benefit the community, prioritizes based on need, and also includes other projects the City should not lose sight of (ie. future considerations). Projects proposed by non-profit organizations and other governmental organizations may be included in the CIP with City Council approval, but such inclusion does not indicate that the City intends to provide funding for the project.

Though the CIP is a product of the City Council, Administration provides important technical support and ideas with suggestions from the public incorporated through the process. The City of Seldovia invites the public to participate throughout the process.

Determining project priorities: City of Seldovia CIP projects are assigned a numeric priority level with 1 being the highest priority. To determine priority, City Council considers such questions as:

- Will the project correct a problem that poses a clear danger to human health and safety?
- Will the project promote cost effectively managing core public services and/or the maintenance or repair of City infrastructure?
- Is the project specifically recommended in other City of Seldovia long-range plans and does it align with the City's comprehensive plan?
- Will the project significantly enhance City revenues or prevent significant financial loss?
- Is the project widely supported within the community?
- Has the project been a priority and/or in the CIP for an extended period of time?

Once the CIP is finalized and approved, the City Council will use the CIP as the City's guide to focus its efforts to obtain state and/or federal funding in the coming year. Once adopted, the top legislative priorities are submitted to Seldovia's State and Federal Delegation and the CIP is distributed to the Kenai Peninsula Economic Development District (KPEDD), Seldovia Village Tribe, and the City of Homer in an effort to build regional understanding and partnership potentials.

**CITY OF SELDOVIA
RESOLUTION 24-19
(As amended)**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SELDOVIA, ALASKA
ADOPTING THE 2024-2029 CAPITAL IMPROVEMENT PROGRAM AND ESTABLISHING
CAPITAL PROJECT LEGISLATIVE PRIORITIES FOR FISCAL YEAR 2025**

WHEREAS, The City of Seldovia adopted its first Capital Improvement Program (CIP) on March 14, 2022, as the “City of Seldovia Capital Improvement Program 2022-2027”; and

WHEREAS, The City of Seldovia has continued to work on updating the Capital Improvement Program since its initial adoption, including; through an invitation for project submissions by non-profit and other governmental organizations for inclusion in the program in November 2023; and

WHEREAS, It is the intent of the Seldovia City Council, through the development and annual adoption of the Capital Improvement Program, to provide the Governor, the State Legislature, State Agencies, the Alaska Congressional Delegation, and other potential funding sources with adequate information and priorities regarding the City’s capital project funding needs; and

WHEREAS, Receiving funding for these capital projects will help ensure that the City of Seldovia is able to address maintenance needs associated with essential services that impact public health and safety regarding water, sewer, and road maintenance, and economic development; and

WHEREAS, The Seldovia City Council, with guidance from the CIP, was able to prioritize the below itemized capital projects for consideration in the Alaska State Legislature’s Capital Projects Database (CAPSIS) for the upcoming legislative session.

NOW, THEREFORE BE IT RESOLVED that the City Council of the City of Seldovia, Alaska, hereby adopts the “City of Seldovia Capital Improvement Program 2024-2029” as the official six-year capital improvement program for the City of Seldovia.

BE IT FURTHER RESOLVED that the following capital improvements projects are identified as priorities for FY2025 State and Federal Legislative Requests:

Project Name	Funds Requested
Raw Water Transmission Line Replacement	\$554,000
Bloch Street Sewer Main Replacement	\$1,243,000
Fuel Retail and Distribution Facility Roof Improvements	\$136,557
Material for Seldovia Safe Roads Project	\$88,000
Planning- Seldovia Small Boat Harbor Improvements	\$25,000

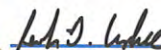
PASSED AND APPROVED by a duly constituted quorum of the City Council of the City of Seldovia on this 11th day of December, 2023.

ATTEST:



Liz Diament, City Clerk

APPROVED:



Jeremiah Campbell (Dec 13, 2023 22:13 AKST)

Jeremiah Campbell, Mayor

Facility Projects and Rolling Stock

- Roof Repairs City Office Awning, Priority level 1
- Fuel Retail and Distribution Facility Roof Improvements, Priority level 1
- Heavy Equipment Complex and Archive Storage out of the inundation zone, Priority level 2
- Multipurpose Building Improvements Project, Priority level 2
- City Office Energy Improvements Project, Priority level 3
- Value-added building Industrial or Small Business Complex Completion, Priority level 3

- Backhoe Replacement Project, Priority level 1
- Skid Steer with forklift and brush hog, Priority level 1
- Vacuum Truck- Super Sucker/Dry Vac with Jetter, Priority level 2

City Office Awning Roof Repairs

Project Summary & Benefit: This project will complete roof improvements for the City Office roof overhang to protect the awning, ensure the overall structural integrity of the City Office roof, and promote safety of employees and public accessing the public facility.



Total Project Cost: \$30,000

FY25 State Share Requested: None

City Share: \$30,000

Schedule:

-FY24 budget- allocate project funding

-August-September 2023: Solicit interest and request cost estimates from local contractors.

-October 2023: Select a contractor for council approval and allocate any additional funding for the project.

-October-December 2023: Contract initiated and work complete.

Project Description: The awning roof on the City Office is in poor condition and required a stabilizing brace in the spring 2023. The City Office building roof, with the exception of the awning roof, was replaced in 2016 upon its collapse into the building. There is concern with upcoming snow that the awning roof will not last the winter season.

Projected costs from an October 2023 estimate:

- .22 gauge AEP SPAN steel roofing from ASC BUILDING PRODUCTS OF ANCHORAGE- \$7000.00
- 5 days labor- licensed, bonded and insured payroll plus 12% contractor fee included- \$13,440.00
- The City has purlings required on hand and can provide some labor support through the public works department.
- Costs do not reflect freight, mobilization, or equipment rental (re: man lift, forklift etc). The steel superstructure members have not been pre-drilled to fit the existing steel structure and may cause additional costs or be able to be drilled by the City.

Fuel Retail and Distribution Facility Improvements

Project Summary & Benefit: This project will repair and/or replace the roof on the City’s retail building located on Main Street and provide improvements to the building and roof of the accompanying retail building located on the Municipal Deepwater Dock. Both buildings are occupied and leased by Seldovia Fuel and Lube as the tenant.



Total Project Cost: \$136,557

FY25 State Share Requested: \$136,557

City Share: Unfunded

Schedule:

- Spring/summer 2022: Staff evaluated improvements made to the main building roof and assess need for more long-lasting improvements to be made. - Reevaluate dock building roof at this time.
- Summer/fall 2022: Repairs made.
- Spring/summer 2023: New leaks occurred.
- Fall 2023: Evaluation of repair completed.
- Fall 2023: Temporary repairs made.
- Oct. 2023– Dec. 2023: Evaluate a preliminary list of repairs/ maintenance needs and cost estimate.
- Jan.-April 2024: Determine city funds for repairs and/or matching funds for infrastructure funding.

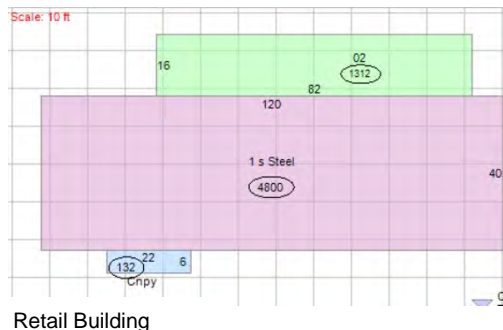
Project Description:

In the summer/fall of 2021, Seldovia Fuel and Lube notified the City that the roof at their main retail building as well as the roof of the building located on the Municipal Dock were leaking. Per the terms of the City’s lease with Seldovia Fuel and Lube, the City is responsible for roof maintenance. In early November after trying to secure a contractor to perform the work, city staff patched between 10-12 cracks in the skylights. Staff also repatched areas on the roof that had been previously worked on and temporarily covered an area of the roof with an open stove pipe.

Staff were able to determine that the skylights needed to be replaced or covered and that the coverings should be screwed down with a fastener and sealed from both underneath and over the top. Additionally, the 2 ½ inch stove pipe and the open stove pipe needed to be removed and sealed and the roof pressure washed and scrubbed beforehand with a protective coating applied after. Staff identified similar repairs for the municipal dock building and repairs for both infrastructures were complete the summer of 2022.

Approximately one year after the repairs were made, Seldovia Fuel and Lube notified the City that the both infrastructures continued to leak. Upon staff evaluation of the retail building, it was determined that the screws and washers fastening the steel in place had rusted and leaks were occurring from where the steel was fastened down. Staff recommends the replacement of the retail building roof. Recommendations for the municipal dock building are for a false roof to be built over the existing roof and siding be replaced where it has worn on the building.

Cost Estimate- Fuel Retail and Distribution Facility Improvements		
Roof Material (both buildings)	5500 sq. ft	\$ 32,200.00
Dock Building Siding	1224 sq. ft	\$ 7,084.00
Labor- licensed, bonded and insured payroll plus 12% contractor fee included	800 hrs	\$ 53,760.00
Equipment Rental		\$ 12,000.00
Contingency- 30%		\$ 31,513.20
Total		\$ 136,557.20



Emergency Response and Heavy Equipment Staging Complex with Archival Storage out of Inundation Zone

Project Summary & Benefit: This project will evaluate the potential to purchase or develop a City lot for the development of a complex for emergency response, heavy equipment staging, and City archives storage outside of the tsunami inundation zone.



Total Project Cost: TBD

FY25 State Share Requested: None

City Share: Unfunded

Schedule:

- Oct. 2024 – Dec. 2024: Staff and Council evaluate capacity to pursue the project.
- Jan.-April 2024: Determine city funds or matching funding for project planning.
- Summer 2024: Explore potential sites for project.
- Fall 2024: Evaluate and plan for project funding opportunities.

Project Description:

This project will plan and construct an emergency response and heavy equipment staging complex with an archival storage unit and maintenance shop outside of the tsunami inundation zone. Currently, the City heavy equipment fleet, maintenance shop, and archival storage, are located within a tsunami evacuation zone. During an evacuation, staff enter the tsunami inundation zone to move heavy equipment to higher ground and archives are considered lost. Emergency response is staged at the evacuation shelter, Susan B. English School, but storage availability is limited. A small Conex is currently in use at the shelter to store limited supplies and resources in the event of an emergency.

During nonemergency, heavy equipment fleet items are parked on the property surrounding the City's Value-Added Building. The property is located on the waterfront, which elicits additional wear and deterioration of the equipment from salt spray. Equipment is located on the lot due to proximity to the maintenance shop and limited availability of storage space. Additionally, the City desires to lease or develop the building on the Value-Added Building lot for a new economic development opportunity and this opportunity would require equipment to be permanently removed from the lot.

Considerations for the complex; 40x120 pole barn with 4 unheated bays, 1 heated repair bay, and a maintenance office. 2023 building cost estimates for material \$25-27 sq.ft. Land acquisition may be necessary and should be evaluated for enough area to clear snow around the facility and to store road material and sand.

Additional considerations for the project include space for emergency response operations and storage along with possible office space for the City Office to encourage and support staff communication and coordination efforts while avoiding the siloing of City departments.

Multipurpose Building Improvements Project

Project Summary & Benefit: This project will help the City make necessary improvements and repairs to the City's central and most heavily used public facility: the Multipurpose Building.



Total Project Cost: TBD

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

- CY2022: City received CDBG-CV grant to make improvements to the building.
- Jan. – May 2024: City to work on securing cost estimates for remaining maintenance needs and explore partnership potential with Seldovia Library for funding
- July/Aug. 2024: City work with AHFC to analyze building energy usage data collected over a one-year period
- Sep.-Dec. 2024- Evaluate and determine a cost estimate for improvements.
- Jan.-April 2024: Determine city funds for repairs and/or matching funds for infrastructure funding.
- FY24-FY25- Determine funding opportunities and project planning phases

Project Description:

The Multipurpose Building is known by some as “the Heart of Seldovia.” It provides, as the name implies, multiple essential services to the community ranging from law enforcement and emergency response to a library and the senior meals program. The building was constructed in three sections and is in need of necessary maintenance to repair the building’s siding and outside stairs, interior and exterior paint, foundation improvements to correct drainage issues, and evaluate energy efficiency opportunities. These upgrades will reduce operating costs in the building and improve the structural integrity of the City’s most publicly used building to extend its longevity.

City Office Energy Improvements Project

Project Summary & Benefit: This project will determine and plan for improvements to the Seldovia City Office that provide for a more energy efficient, cost saving facility.



Total Project Cost: TBD

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

- Oct. 2023– Dec. 2023: Complete energy audit.
- Oct. 2023– Dec. 2023: Evaluate a preliminary list of repairs/ maintenance needs and cost estimate.
- Jan.-April 2024: Determine city funds for repairs and/or matching funds for infrastructure funding.
- FY24-FY25- Determine funding opportunities and project planning phases

Project Description:

The Seldovia City Office is located in a retrofitted older cannery building with limited insulation and older style windows and doors. Additionally, the Public Works Maintenance Shop Bay door has gaps large enough to see the outside elements and is uninsulated. Many windows in the building are single-pane and the building in general is poorly sealed. The water line to the building is subject to freezing in winter. In addition to improving the building’s envelope, there may be opportunities for other efficiencies, such as installing heat pumps, to reduce operating costs as well as environmental impacts of heating the building. Consideration of improvements may provide significant savings through lowered energy costs and improve employee and public satisfaction and retention.

Complete the Value-Added Manufacturing Plant Building

Project Summary & Benefit: This project will help the City complete the Value-Added Building, which currently remains unoccupied and unusable for economic development activities that would benefit the community and City.

Project Description:

The construction of the Value-Added Manufacturing Plant building began in 2013 and the City of Seldovia had a ground breaking ceremony on July 4, 2013 for the facility's construction. The City received grant funding totaling \$565,000 from FY12 – FY14 for this project.



This property is the historical site of the last cannery processing facility, which operated until 1993. At one time, the city had at least three large canneries operating in town. There is overall strong public support for revitalizing industry in Seldovia.

The Value-Added Manufacturing Plant facility's construction was a great start but due to limited funding the City was only able to build the shell and conduct minimal electrical work. The 6,000 square foot building spans over three City owned waterfronts. The building is far from completion and its current state has unfortunately prevented the City from securing an investor to put the building to use. As of now, the City is using the building for storage when the original intent was to construct a facility that could generate economic activity for Seldovia. This project depends on a reliable ferry system to help keep construction costs low; after the City broke ground for the project, the M/V Tustumena's return to service was further extended, causing delays and increasing costs for the project.

Completion of the building includes but is not limited to:

- Trench drains and appropriate underground plumbing
- Fabrication and installation of a data/telecommunication system
- 117 cubic yards of additional concrete for the flooring
- Boiler and heater units
- Additional interior carpentry and sheetrock work
- Water and sewer installation
- Continuation of electrical components

Cost estimates to finish the building have ranged from \$570,000 in FY14 to \$635,000 in FY15 to \$760,000 in FY16 to \$1,325,000 in FY17 to \$760,000 in FY21. The City needs assistance in developing the exact improvements and updated cost estimates necessary to complete the building, however this is contingent upon the needs of the future tenant who will occupy the building.

Total Project Cost: TBD

FY25 State Share Requested: TBD
City Share: Unfunded

Schedule:

- Fall 2022: City issued Expression of Interest for the building's use.
- January – May 2023: City work with potential tenant secured through EOI to potentially partner on building needs and associated cost estimates.
- Summer/Fall 2024: City create white paper regarding tenant, economic development potentials for Seldovia, and funding needs. Share white paper with funders such as the EDA.
- Dec. 2025 or 2026: Apply for CDBG funding to fund

Backhoe Replacement

Project Summary & Benefit: The City of Seldovia's 1998 Caterpillar 416C (Backhoe) is nearing its end of useful life and in need of replacement. The equipment is in fair condition, requires regular additional maintenance and is limited in its capacity for usability.



Total Project Cost: \$50,000-\$150,000

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

-FY25-FY26- Evaluate budget to determine funding availability. Research lease options and plan for replacement

-FY27-FY28 Allocate funding for the purchase or enter into lease.

Project Description:

The City of Seldovia's 1998 Caterpillar 416C (Backhoe) is nearing the end of its useful life and a replacement should be planned. Currently, the equipment is used in a limited capacity due to its condition and is in need of hydraulic work and valve replacement. The City often rents equipment or utilizes service from a local company for work that requires digging. The backhoe is an important fleet item, utilized frequently for water and sewer maintenance and repair, other projects that require digging, and as part of the regular snow removal maintenance fleet.

Essential heavy equipment fleet items for effective and efficient City operations includes loader, grader, backhoe, smaller equipment such as a skid steer, and a vacuum truck. Each item should be evaluated for useful life that includes an implementation plan for replacement.

Considerations for a replacement backhoe includes the desire for a 420 Caterpillar with boom suspension and powershift. Requirements include 4x4; front bucket with a hydraulic coupler, Balderson pin style preferred for current attachments, an extendable stick, and rear wheel spacers for chain utilization that does not hit the body.

Skid Steer with Forklift and Brush Hog

Project Summary & Benefit: The acquisition of a smaller heavy equipment fleet item with attachments for multiple uses, including brush clearing, moving material, and clearing snow on the Seldovia historic boardwalk.



Total Project Cost: \$60,000- \$89,500

FY25 State Share Requested: TBD

City Share:

Schedule:

-FY25-FY26- Evaluate budget to determine funding availability. Research lease options and plan for replacement

-FY27-FY28 Allocate funding for the purchase or enter into lease.

Project Description:

Essential heavy equipment fleet items for effective and efficient City operations include a loader, grader, backhoe, a vacuum truck, and a smaller piece of equipment such as a skid steer.

The acquisition of a skid steer with a forklift and brush hog attachments will provide multiple year-round benefits to the City. A forklift would be used year-round for moving material, a brush hog used during spring, summer, and fall to clear brush in right-of-way and the boat storage yards, and the equipment will be utilized during the winter season for snow removal of the historic boardwalk and other public areas. Utilizing smaller equipment for the removal of snow on the historic boardwalk will help preserve the integrity of infrastructure. Considerations for the equipment; tracks required, no foot controls desired, glass cab, joy stick controls and hi-flow for the brush hog attachment.

Additional considerations for pick up broom attachment.

Vacuum Truck- Super Sucker/Dry Vac with Jetter

Project Summary & Benefit: Acquisition of a new vacuum truck (Super Sucker or Dry Vac) with an attached jetter, for the repair and maintenance of City infrastructure.



Total Project Cost:

FY25 State Share Requested: TBD

City Share:

Schedule:

-FY27-FY28- Evaluate budget to determine funding availability. Research lease options and plan for replacement
 -FY29-FY30 Allocate funding for the purchase or enter into lease.
 -Additional funding opportunity through Seldovia Sewer Treatment Improvements Project.

Project Description:

The public works department maintains and operates a vacuum truck and jetter as separate equipment. Both fleet items are older and past their desired lifespan. The vacuum truck, a 1982 Ford L8000 Vac Truck, requires maintenance to operate, is rusted, which will eventually create a hole in the tank, and will not pass DOT inspections for main road operations. The jetter, a 1982 Aquatech SJ600, requires a major repair that possibly includes a new motor, hose, and ignition switch. Due to general wear and tear both equipment should be replaced, and consideration should be given for a newer model with combined equipment.

The vacuum truck and jetter are utilized for water, sewer and other infrastructure maintenance and repair. The vacuum truck is utilized in the field for the repair of water leaks or to pump water during jobs that require digging, along with the pumping and maintenance of public restroom facilities, sewer lift stations, and should be regularly utilized for the maintenance of the City sewer septic tank facility. The jetter is utilized for the repair and maintenance of City sewer mains. Due to the age and condition of City sewer infrastructure, there are three critical areas that require frequent evaluation and jetting for upkeep: Anderson Way, Shoreline Drive and Bloch Street, and Iliamna and Inlet Street.

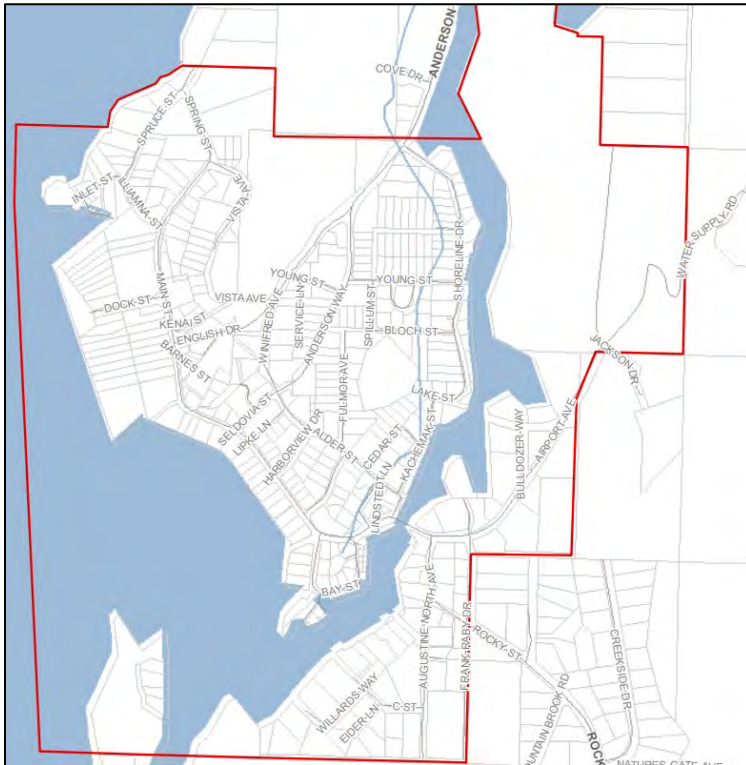
Considerations for vacuum truck; Super Sucker or dry vac with attached jetter. Smaller single axle with low hours desired.

Surface Transportation Projects

- Seldovia Safe Roads Program- Resurface Existing Community Roads and Identify Next Steps for Unimproved, Platted Rights-of-Way, Priority level 1
- Harbor Parking Lot Improvements Project, Priority level 1
- Creation of Master Storm Water and Drainage Management Plan, Priority level 2
- Historic Boardwalk Improvements and Waterfront Expansion Project, Priority level 3
- Spillum and Malcolm Subdivision Platted ROW Development Project, Priority level 4

Implementation of the Seldovia Safe Roads Program to Repair and Resurface Existing Community Roads and Identify Next Steps for Unimproved, Platted Rights-of-Way

Project Summary & Benefit: This project will leverage the FY2023 congressional appropriation amount of \$22,000 to secure more road material to begin Seldovia's Safe Roads Program and repair and resurface the most critical sections of unpaved rights-of-way.



Total Project Cost: \$110,000
 CY23 Federal Share: \$22,000
 FY25 State Share Requested: \$88,000
 City Share: Unfunded

Schedule:

- Dec 2024: City submit CAPSIS funding request for \$88,000 to match the CDS appropriation
- Jan. - March 2024: Staff finalize documentation of the specific maintenance needs of each City road.
- City place order for road material
- April-June 2024: City collect public feedback on road condition
- August- September 2024: City begins to make improvements to most critical sections of roads.

Project Description:
 Road maintenance is an essential service the City provides its residents. While the City completes routine maintenance to its roughly 5 miles of unpaved roads, it has been decades since the City

resurfaced them. A little under 2 miles of those unpaved roads pose a significant safety hazard to the traveling public.

Examples of safety hazards include: Ditches are higher than the road itself, channeling water down the road. The wet, soft spots of the road can expose water and sewer infrastructure susceptible to damage (ex. an operator ripped out the control rod for the water main with the City grader because of this issue). Residents frequently drive on the wrong side of the road to avoid pot holes.

In order to address the poor quality of the City's unpaved roads, the City developed Seldovia's Safe Roads Program in FY22 and FY23. The program will have ranked all City rights-of-way in order of priority based on condition with a goal of defining the specific maintenance needs of each road section by July 2023, incorporating public feedback into the inventory. If the City were to resurface the 2 miles of critical road sections all at once, the total estimated cost in 2021 would be \$255,000. This funding request to the Alaska Legislature would allow the City to secure less than 4,500 cubic yards of crushed D1 or E1 gravel, delivered and placed by a third-party contractor, and cover the contractor's mobilization and demobilization costs. The funding will leverage the CDS

CITY OF SELDOVIA CAPITAL IMPROVEMENT PROGRAM

2024-2029

appropriations amount of \$22,000 the City received for the program, allowing Seldovia to resurface approximately ½ mile of critical unpaved road sections.

Additionally, there are a series of platted but undeveloped roads within City limits. Staff have made an inventory of these roads, provided below. Evaluation of how to move forward with road development can be a future project for the City to incorporate into the Seldovia Safe Roads Program:

- A Street
- B Street
- Bloch Street
- Bob Gruber Street
- Chrissy Ave
- Eagle Run Loop
- Fulmore
- Hill Street
- Kenai Street
- Lake Street
- Malcom Street
- Vista Avenue
- Wadsworth
- Watchpoint Drive

Harbor Parking Lot Improvements Project

Project Summary & Benefit: This project will evaluate and plan for improvements needed for the harbor parking lot.



Total Project Cost: \$20,000

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

-Oct. 2023– Dec. 2023: Evaluate a preliminary list of repairs/ maintenance needs and cost estimate.

-Jan.-April 2024: Determine city funds for repairs and/or matching funds for infrastructure funding.

-FY24-FY25- Determine funding opportunities and project planning phases.

Project Description:

The installation of a new drainage system is recommended for the harbor parking lot near the Harbor Gateway Pavilion along with a 6-8 inch lift with material. Drainage in the area is poor; local contractor recommendations are that a French drain with a catch basin be installed near the pavilion, with additional evaluation given for a second French drain installation 20 feet further along. Once installed the lot would be graded, new material would be applied and the area would be compacted.

Creation of Master Storm Water and Drainage Management Plan

Project Summary & Benefit: This project will help the City manage storm water run-off to effectively collect, treat, and discharge Seldovia's surface water runoff and guide development in Seldovia.

Project Description:

The City does not have a Master Storm Water and Drainage Management Plan. Current Administration is unaware of an up-to-date document that demonstrates how water moves through Seldovia, and the infrastructure (ie. ditches, culverts) that captures and channels surface runoff into the City's wastewater system or the Seldovia Bay. This project would provide the City with its first ever Master Storm Water and Drainage Management Plan.

Total Project Cost: \$225,447

FY24 State Share: \$225,447

City Share: \$0

Schedule:

-FY23-FY25: Funded by ACWA and in process through contract with HDR.

In January 2022, the City received notice from the Kenai Peninsula Borough that City properties are subject to repeat flooding during large rain events. Flooding is a type of natural disaster that can be mitigated and planned for through the development of a Master Storm Water and Drainage Management Plan that will have broader positive impacts for the future development of Seldovia.

As the City looks to improve its transportation infrastructure through the Seldovia Safe Roads Program, the development of a Master Storm Water and Drainage Management plan will help the City manage storm water run-off to effectively collect, treat, and discharge Seldovia's surface water runoff. A Master Storm Water and Drainage Management plan will guide future maintenance and development through flooding considerations that can be incorporated into the zoning and construction requirements at the municipal level.

Road maintenance is an integral component to storm water management. This plan can guide road maintenance while evaluating any potential inadequacies of the City's roadway drainage system. The Plan will include the following:

- Drainage Study - collecting existing data, interviews, mapping out drainage networks and basins, field work, calculating storm water design events, and designing storm water drainage routing.
- Water Quality Impacts - designing structural and nonstructural controls for improving water quality at storm water outfalls.
- Public Involvement Capital Improvements Projects List - developing a list of projects and cost estimates for the City to assist with planning and budgeting, based on infrastructure condition and priority.
- Draft and Final Studies - compiling and summarizing the results from the abovementioned tasks and producing a draft and final drainage study report. These reports would include mapping and GIS database.

In summer 2023, the City was awarded a Alaska Clean Water Actions grant to support the creation of this plan.

Historic Boardwalk/Bay St. Improvement and Boardwalk Expansion Project

Project Summary & Benefit: This project will evaluate the condition of the Historic Boardwalk and Bay St. and provide a plan for needed improvements and possible expansion of the historic boardwalk around the waterfront.



Historic Boardwalk. Source: Alaska Digital Archives

Total Project Cost: TBD

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

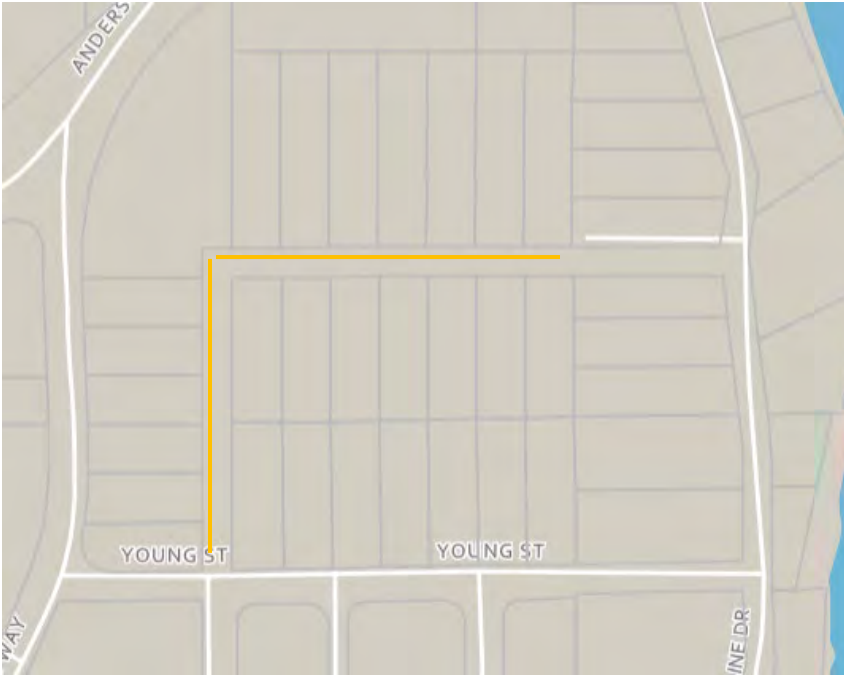
- May – July 2024: Come up with preliminary list of repairs/ maintenance needs and cost estimate.
- Summer 2024: Reach out to State Historical Office to explore if boardwalk can be listed as a historical site.
- Fall 2024: Submit application to participate in SOA Community Transportation Program funding opportunity.
- 2024-2025: Determine funding opportunities and project planning phases.

Project Description: Seldovia was a boardwalk community until the 1964 Good Friday earthquake and the following Urban Renewal Program. Damage resulting from the earthquake and associated tsunami led to the removal of the majority of the town's boardwalk. A few portions of the original boardwalk remain in place including the Historic Boardwalk, also known as Bay Street. Bay Street is a platted right of way, but the existing street is not fully located in the platted area. Public access easements have been granted to the City by property owners bordering Lookout Alley on the west side of the boardwalk for the portion of the structure existing on private property. Homeowners across from the area access the boardwalk through the platted right-of-way. Homeowners surrounding the historic boardwalk use this piece of infrastructure as a right-of-way, driving their cars on it to access their homes. Heavy use, snow, and snow removal have worn out the condition of the boardwalk and it is in need of evaluation and general repair; including the replanking of the boardwalk and repair of underlying retaining walls and eroding banks ensuring the preservation of this historic and iconic Seldovia landmark. Additionally, there is community support to expand the historic boardwalk around the harbor waterfront; promoting economic development and revitalization of Seldovia as a boardwalk community.



Spillum and Malcom Subdivision Platted ROW Development Project

Project Summary & Benefit: This project will evaluate and plan for the installation of the platted ROW for the Spillum and Malcolm Subdivision to promote and allow for development of housing opportunities in the community.



Total Project Cost: \$800,000

FY25 State Share Requested: TBD

City Share: TBD.

Schedule:

-Fall 2026: Consult engineering firm to determine best method for extending ROW access to parcels and secure cost estimate to perform work.

-Spring 2027: Explore incentive for incorporation of ADUs into housing development, partnership potential for lot development with SVT, and if revenue generated from disposal could be enough to cover/offset ROW construction costs.

Project Description:

The Spillum Malcolm Subdivision is an undeveloped area in the City of Seldovia containing fourteen lots. Lots are undeveloped due to limited access through wetlands and bedrock. Planning efforts should consider water, sewer, and right-of-way access for the area to promote future development.

The Kenai Peninsula 2021-2026 Comprehensive Economic Development Strategy and the City of Seldovia 2014 Comprehensive Plan includes workforce development as a priority and focus, with workforce and human capital including; housing, transportation, and childcare. In 2023 the Seldovia City Council identified affordable housing as a priority. The development of water, sewer, and right-of-way access for the large undeveloped Malcolm and Spillum Subdivision will promote and allow for the development of additional housing opportunities in a community limited in size.

Considerations for the project; development in wetlands, possible opportunity for boardwalk access.

Quality of Life & Economic Development Capital Projects

- All Hazard Mitigation Plan Update, Priority level 1
- Seldovia Ten Year Collaborative Economic Strategy Plan, Priority level 2
- Comprehensive Plan and Zoning Code Update and Review, Priority level 3
- Water and Sewer Utility System Mapping, Priority level 3
- Improved Access to Lake Susan Pavilion Project, Priority level 4
- Seldovia Wilderness RV Park and Outside Beach Campground Improvements Project, Priority level 4

All-Hazard Mitigation Plan Update

Project Description & Benefit: This project will update the City of Seldovia All-Hazard Mitigation Plan. HMPs are required to be updated every five years. The City of Seldovia's HMP was approved in 2017 and sunset May 2023. The City of Seldovia HMP is an annex of the Kenai Peninsula Borough All- Hazard Mitigation Plan and is a requirement for FEMA funding. The Kenai Peninsula Borough and State of Alaska are aware that the plan has sunset and will coordinate with Seldovia on how they can be eligible for future public assistance or mitigation funding until the City's update is approved.

The City of Seldovia applied for funding to update the plan through the Division of Homeland Security and Emergency Management (DHS&EM) in 2022 and is awaiting award notification. Plan updates can take a year to facilitate.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

Priority level: 2

Seldovia Ten Year Collaborative Economic Strategy Plan

Project Description & Benefit: This project seeks to develop a Ten-Year Collaborative Economic Strategy Plan as recommended in the 2014 Seldovia Comprehensive Plan. The Economic Strategy Plan will develop a coordinated set of strategies for enhancing local income streams, incubating new business, meeting local needs locally, enhancing skills, and helping residents to take better advantage of Seldovia's assets and setting. In FY22, the City requested and unsuccessful in receiving legislative appropriations to fund the plan. This plan will help the City and Seldovia community respond effectively to changes in the economic climate in order to remain flexible, adaptive and resilient.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

Priority level: 3

Comprehensive Plan and Zoning Code Update and Review

Project Description & Benefit: Seldovia's Comprehensive Plan is intended as a framework to guide development and strategic community investment over 10 to 20 years. It represents a broad community vision defined by residents during a public process. The most recent comprehensive plan was adopted in 2014 and is due for an overall review and update. Additionally, there is a desire to emphasize and ensure compatibility between the Seldovia Zoning Code and comprehensive plan. The Seldovia Zoning Code was established in 1966; the last major review and update occurred in 1998 when the City of Seldovia was granted planning powers from the Kenai Peninsula Borough; an additional zoning update took place in 2006.

Previous comprehensive plans were adopted; 2014, 2005, 1980, 1969.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

Priority level: 3

Water and Sewer Utility System Mapping

Project Summary & Benefit: This project will inventory the City's water and sewer utility system using existing as-builts and develop a map stored in a cloud or online database, ArcGIS. Once the digital overview map is established current maps can be printed for record keeping, historical reference, and presentations. Additionally, staff will be trained to provide digital updates in the field, promoting an up-to-date relevant database for planning and rehabilitation purposes.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

Improved Access to Lake Susan Pavilion

Project Description & Benefit: This project will install an aluminum boardwalk to the City of Seldovia's Lake Susan Pavilion. An improved trail to the pavilion will increase use of and accessibility to this municipal facility, which is located on the only piece of public property bordering Seldovia's Lake Susan. The pavilion provides a covered space with a picnic table and benches available for communal events such as potlucks and birthday parties as well as solitary activities such as reading and observing wildlife. There is significant potential to turn this pavilion into a vibrant, public space that creates community if improvements are made to address the large mudpuddles that frequently form within the informally-built footpath used to access the facility. The mud, combined with the trail's uneven surface, pose slipping hazards; community members have shared that trail conditions deter their use of the pavilion. The area overall does not receive as much use as one would expect, with many residents and visitors exclaiming they never knew about this special site. To quote one resident who visited the pavilion in 2022, "I have lived here over 30 years and this is the first time I have been here." The City intends to pursue funding through a grant opportunity in spring 2023 to secure materials for the improved trail. In the summer of 2022, a local business had a fundraiser to support this project, and those funds will also support expenses associated with bringing the boardwalk to the pavilion.

Total Project Cost - \$30,000 FY25 State Share: TBD FY24 City Share:

Priority level: 4

Seldovia Wilderness RV Park and Outside Beach Campground Improvements Project

Project Description & Benefit: This project will evaluate how the Seldovia Wilderness RV Park and Outside Beach Campground are currently used and options for redevelopment that will support recreational opportunities in Seldovia. The Seldovia Wilderness RV Park has a large lawn that is underutilized as an outdoor community venue, log outhouses and hand water pumps for non-potable water that is pumped from a water storage tank to the individual campsites. The Outside Beach Campground has an outhouse and outdoor pavilion. The City services the outhouses at both locations and manually fills the large storage tank of non-potable water.

Total Project Cost - FY25 State Share: \$0 FY24 City Share: Unfunded

Special Revenue Fund Capital Project Priorities

Seldovia Small Boat Harbor

- Jakolof Bay Dock Replacement, Priority level 1
- Small Boat Harbor Float Improvements, Priority level 1

Municipal Dock

- Municipal Dock Improvements and Pedestal Crane Maintenance, Priority level 1

Boat Haul Out and Storage

- Boat Launch Repairs, Priority level 2
- Boat Storage Yard Electric Meter Installation and Improvements, Priority level 3

Water Capital Projects

- Water Treatment Plant Raw Water Transmission Line Replacement, Priority level 1
- Airport Avenue Main Maintenance- Depth Correction, Priority level 1
- Seldovia Upper Dam & Reservoir Improvements, Priority level 1
- Vista Avenue Water Line Replacement, Priority level 2
- Dock Street Main and Water Connection Line Improvements for freeze, Priority level 2
- Winifred Avenue – Anderson Way – Shoreline Drive Water Line Replacement, Priority level 3
- Spillum and Malcolm Subdivision Water Main Extension, Priority level 4
- Frank Raby Water Main Extension, Priority level 4

Wastewater (Sewer) Capital Projects

- Seldovia Slough Sewer Improvements Project, Priority level 1
- Sewer Treatment Facility Improvements Project, Priority level 1
- Bloch Street Sewer Line Replacement, Priority level 1
- Vista Avenue Sewer Line Replacement, Priority level 2
- Evaluation of Inlet Street, Illiamna Street, and Main Street Sewer Lines, Priority level 3
- Spillum and Malcolm Subdivision Sewer Main Extension, Priority level 4
- Frank Raby Sewer Main Extension, Priority level 4

Jakolof Bay Dock Replacement

Project Summary & Benefit: This project will replace the 1977-constructed Jakolof Bay Dock. This project will correct problems that pose a clear danger to human safety while preventing financial loss incurred through risk and liabilities.



Project Description:

Jakolof Bay Dock was originally constructed by the State in 1977 and transferred to the City in 2008. Jakolof Bay Dock serves as a 'safe harbor' for boaters, reduces marine transportation time to and from Seldovia's neighboring harbor in Homer, and assists Seldovia First Responders in transferring patients in and out of Seldovia. Since 2008, the City has conducted minimal, annual maintenance to the dock however significant upgrades are needed to ensure safety use of the dock.

In 2021 a condition assessment was performed and the dock was stated to be at the end of its useful life with an anticipated 3-5 year lifespan remaining and recommended complete replacement.

In 2023, the City of Seldovia was awarded a Ports and Infrastructure Development Program grant and began the funding and solicitation process to complete the project. Additional costs for this project may included an environmental assessment.

Future considerations, the City is awaiting information from the State concerning site control of the uplands surrounding Jakolof, which will impact this project and future projects including installation of a loading ramp.

Aligns with City of Seldovia Comprehensive Plan Goals; Transportation - retain safe, well-timed, water-based transportation options, connect the community. Community & Human Resource- Cost effectively manage core public services, meet emergency and medical needs locally, serve broad public interests. Economy- Sustain a prosperous fishing fleet, increase the number and quality of year-round employment, develop Seldovia's workforce, maximize Seldovia's working and commercial waterfront, enhance tourism, respond effectively to changes in the economic climate. Land Use- manage the land resource as a strategic asset, provide a network of quality, dedicated public spaces, enhance, maintain and protect scenic resources. Environment- Maintain local stewardship over vital land and water resources, develop land and water resources for economic benefit while minimizing adverse local impacts, take advantage of diverse recreational opportunities.

Total Project Cost: \$1.5M - \$2.5M

FY23 PIDP Share: \$2,376,646

FY25 State Share: \$0

City Share: \$140,000

Schedule:

-2008- City received ownership of the dock from the State (SOA).

-Fall 2021, condition assessment.

-March 2022, The City distributed 2,500 mailers to residents of Seldovia, Port Graham, Nanwalek, Homer, Halibut Cove, and Tutka Bay a community hearing was held.

-Fall 2022: City entered into lease with SOA for surrounding tidelands.

-2022: City entered into regional partnership with SVT to improve marine transportation infrastructure like Jakolof

-2023: City awarded Ports Infrastructure Development Program Funding

-FY24: Funding process, RFP for project management and project design and build.

-FY25: Project completed.



Site Overview

Current Conditions & Observations

On Friday, September 10th, a representative of Turnagain Marine Construction inspected the Seldovia City Dock located in Jakolof Bay approximately 4 air miles east of the City of Seldovia.

- The floating dock structure was constructed using treated timber framing floated by un-coated styrofoam billets. Many of the billets showed signs of raveling, degradation, and water absorption.
- The current freeboard of the float is less than one foot in most areas. The dock was originally designed as a low freeboard dock however, water absorption by the uncoated foam billets has likely contributed to a loss of freeboard. Heavy marine growth is contributing to the loss of freeboard as well however removal of the marine growth would likely damage the foam billets and not be productive. (Exhibit A)
- The below deck timber framing appears waterlogged and in various degrees of decay. The current rate of decay is expected to increase due to the reduced freeboard and age of the timber. (Exhibit B)
- The decking appears to be in fair condition and is affixed to framing below with nails
- Much of the observed connection hardware was either installed un-coated or the coating system has failed leading to advanced corrosion. It was observed that a portion of the connection hardware was hot dipped galvanized and in apparent good condition. (Exhibit C)
- Overall, the float construction is lighter duty than what is typically found in municipal construction.
- The pile hoops were found to be intact and in functional condition in most locations along the approach dock. One pile hoop was missing near the dock T location.
- The timber guild piles look to be in fair condition but appear to be insufficiently embedded to achieve proper fixity. Seldovia is known to have shallow bedrock and it is suspected that the pile reached bedrock refusal during installation before achieving adequate embedment.
- The pile originally installed have successfully held the float in place however they are not sufficient to comply with current pile design standards.

Small Boat Harbor Float Improvements

Project Summary & Benefit: This project will plan for the remaining harbor float upgrades identified by the US Army Corps in 2011 through an updated preliminary engineering report. The overall project will correct problems that pose a clear danger to human safety while enhancing City revenues and preventing financial loss by improving the quality of service at the harbor.



Total Project Cost: \$25,000

FY25 State Share Requested: \$25,000
City Share: Unfunded

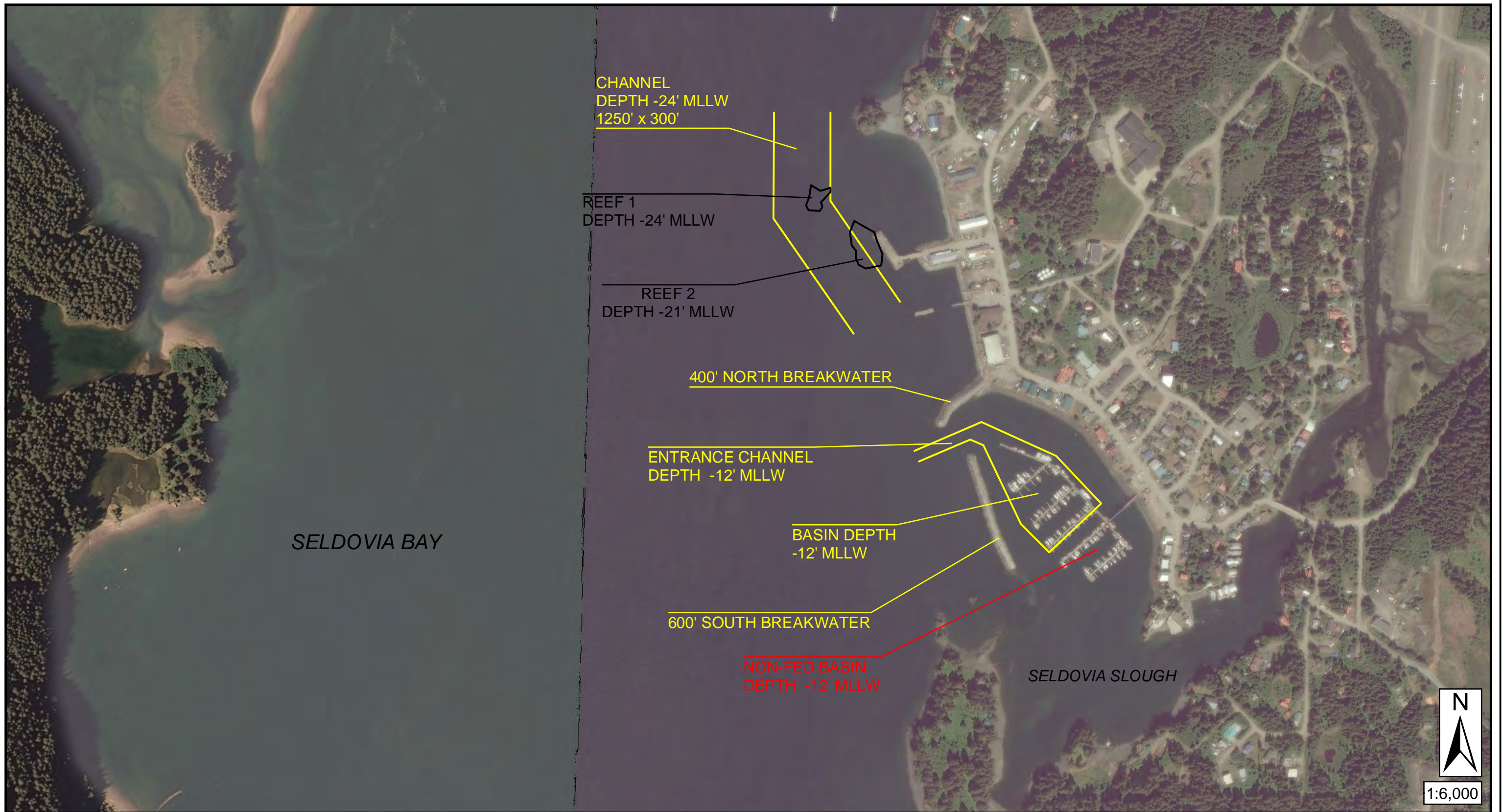
Schedule:

- Technical report completed in 2011 with US Army Corps and Denali Commission
- 2024-2025: Complete Preliminary Engineering Report for project planning.
- 2025-2026: Determine city funds or matching funding for project planning.
- 2026: Seek project funding

Project Description:

As one of two ways to access the remote community of Seldovia, boat or plane, Seldovia’s Small Boat Harbor is essential to the livelihood of the community from economic, workforce, community development, and subsistence perspectives. The harbor was significantly impacted during the 1964 Good Friday Earthquake however the City was able to repair and reuse harbor floats which are still in place at the harbor today. In the 2010s, the City received funding to repair the majority of the main float and all of the float plane dock however many needed repairs still remain as detailed below. Cost estimates are 2011 dollars provided by the US Army Corps.

Harbor Float Improvements	Construction & Implementation Cost	O&M Cost (Frequency)	Average Annual Cost
Replace A Float & finger floats			
Float Replacement	\$884,000	\$884,000 (50 yrs)	
Plumbing & Electrical	\$206,000	\$206,000 (25 yrs)	
Subtotal	\$1,090,000		\$62,000
Replace B Float & finger floats			
Float Replacement	\$1,177,000	\$1,177,000 (50 yrs)	
Plumbing & Electrical	\$207,000	\$207,000 (25 yrs)	
Subtotal	\$1,384,000		\$78,000
Replace C Float & finger floats			
Float Replacement	\$1,337,000	\$1,337,000 (50 yrs)	
Plumbing & Electrical	\$151,000	\$151,000 (25 yrs)	
Subtotal	\$1,488,000		\$83,000
Replace D Float & finger floats			
Float Replacement	\$944,000	\$944,000 (50 yrs)	
Plumbing & Electrical	\$83,000	\$83,000 (25 yrs)	
Subtotal	\$1,027,000		\$57,000
Replace E Float, finger floats, South Main Float			
Float Replacement	\$1,376,000	\$1,376,000 (50 yrs)	
Plumbing & Electrical	\$184,000	\$184,000 (25 yrs)	
Subtotal	\$1,560,000		\$87,000



SELDOVIA HARBOR

SELDOVIA, ALASKA

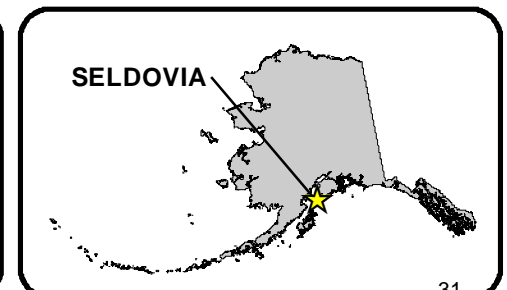
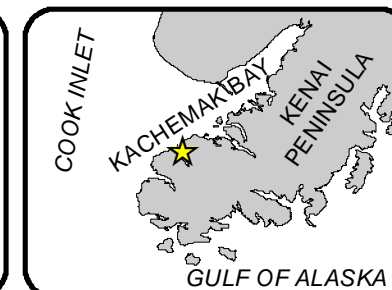


NOTES:

1. THIS LOCALITY IS SHOWN ON NOAA CHART NOS. 16013, 16640, 16645, 16646
2. CURRENT SURVEY INFORMATION FOR THIS PROJECT AT <https://navigation.usace.army.mil/Survey/Hydro>

MAP DATE: 202001 IMAGERY DATE: 201907

Imagery Credits: National Geographic, ESRI, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, METI, NRCAN, GEBCO, NOAA, IPC, DigitalGlobe, GeoEye, Earthstar Geographics, SIO



Municipal Dock Improvements and Pedestal Crane Maintenance

Project Summary & Benefit: This project will evaluate and plan for Municipal Dock Improvements and Pedestal Crane Maintenance. This project will correct problems that have the potential in the long run to pose danger to human safety and compromise the City’s ability to receive Alaska Marine Highway System (AMHS) ferry service or provide crane usage to the commercial fishing fleet and contractors needing to move freight.



Total Project Cost: TBD
 FY25 State Share Requested: TBD
 City Share: Unfunded

Schedule:
 -2022: Facilities Condition Survey/Bridge Report conducted. Report upgraded its findings of the dock from critical/poor to fair.
 -2023: Underwater dock inspection
 -2023-2024: Staff and Council evaluate capacity to pursue the project.
 -Jan.-April 2024: Determine city funds or matching funding for project planning.

Project Description:

The Municipal Dock is an essential asset to Seldovia’s Marine Regional Transportation Network. Built in 1967, it serves as a port of service for the Alaska Marine Highway System (M/V Tustumena and M/V Kennicott) to transport passengers, vehicles, materials, and goods in and out of Seldovia while also providing access to cranes for users in need of moving freight to and from boats. The dock also supports a local business that provides fuel to watercraft. There are no terminal building or other upland ferry terminal related facilities in Seldovia. After the State of Alaska’s routine 2022 inspection, the dock’s overall condition was upgraded from critical/poor to fair in the AMHS Shore Facilities Condition Survey Report & NBI Routine Bridge Report. The below recommendations were made in the 2022 report for how to improve the dock. Without making these improvements, the Municipal Dock’s condition could be downgraded again to critical/poor, which has consequences that may impact the dock’s use. The City will prioritize dock maintenance under the Category I-Safety Repairs during summer 2024-2025 and project repairs may be recommended and completed in a phased approach.

Maintenance & Repair Recommendations		
Structure	Priority	Recommendations
<i>Category I - Safety Repairs</i>		
Approach Slab	1	Backfill the undermined area below the approach slab with low strength flowable concrete, to fill all voids.
Approach	2	Install new W-beam guardrail with driven steel posts at the uplands adjacent to the approach span.
Approach	3	Install cover plates at exposed wiring on light pole bases. Repair damaged conduit near approach slab.
<i>Category II - Rehabilitation Work</i>		
Anodes	1	Replace anodes on all piling.
Approach Span	2	Sandblast to bare metal & re-paint the approach span steel members and replace the elastomeric pads of the approach span.
Approach Span	3	Consider removing the existing culvert that no longer carries water thru the backwall, fill in with grout. Stabilize the cracked backwall, if necessary.
Dock	4	Drill drain holes in upper fender wales
Piles	5	Remove the pile wrap to allow a full inspection of a certain percentage of the piles. This will permit UT and CP readings to be obtained to verify overall condition of the Dock & Approach Span pile supported foundation.

Additional considerations for maintenance include evaluate and address the seasonal fuel docks connectivity to the municipal dock and implementation protective measures for vessel users when the fuel dock is not available, evaluate and address safety ladders and other areas of concern provided by AMLJIA, small concrete repairs, painting and overall upkeep, and crane maintenance and security.



VICINITY MAP

*S E L D O V I A
B A Y*

Staging Area

City Warehouse

Fuel Building

Float

City Offices

Dock Approach

City Dock

*MV TUSTUMENA
MV KENNICOTT*



**GENERAL LAYOUT
SELDOVIA**

Boat Haul-Out Service: Boat Launch Ramps Repairs and Improvements

Project Summary & Benefit: This project will make repairs to infrastructure that supports boat-haul out services provided by the City while reducing financial losses.



Total Project Cost: TBD
FY25 State Share Requested: TBD
City Share: Unfunded

Schedule:
-Spring/summer 2024: Staff to photograph boat ramps and seek consultation options for repairing the ramps and grants to pursue.

Project Description:

The City operates two boat launch ramps within the City of Seldovia (Church Beach & the Small Boat Harbor launch ramps). Both launch ramps have been identified by staff as being in poor/fair condition. The concrete is worn, and the ramps previously had exposed rebar that had the potential to damage boats. There are a few replacements concrete blocks on hand for a partial replacement of one ramp, but both ramps have multiple blocks in need of repair or replacement. When more time allows, the City will formulate a repair plan that ensures the longevity of the two boat launch ramps.

Boat launch ramps are utilized by harbor users, residents, and visitors, to launch and haul out vessels from the bay and supports the Seldovia Small Boat Harbor and Boat Haul Out Storage Yards. Additionally, the City has two sling trailers (a 2012 Kropf Con-O-Lift SL10 for small boats and a 1993 Clemare Hydraulic Boat Trailer for large boats) that are used to haul boats in and out of the water for customers using the City’s two boat launch ramps.

Boat Haul-Out Service: Boat Storage Yard Electric Meter Installation and Improvements

Project Summary & Benefit: This project will make repairs to infrastructure that supports boat-haul out services provided by the City while reducing financial losses.



Total Project Cost: TBD

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

-Spring/summer 2023: Staff cleared brush from boat storage yards and propose plan for improving meters.

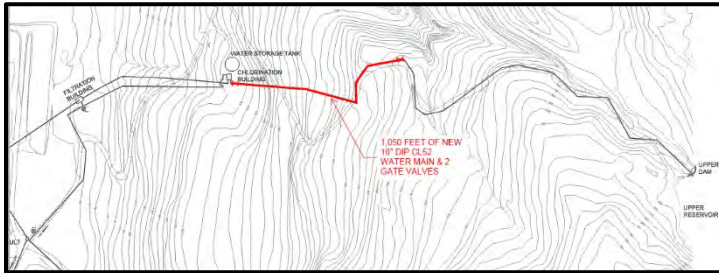
-Spring/summer 2024: Staff seek consultation options for improving meters and evaluating other considerations for improvement.

Project Description:

In addition to providing haul-out services, the City has two boat storage yards available as a service for public use. Both boat yards have electric, which is provided from one HEA meter to over 10 City-owned and maintained meters. Currently, the City does not charge boat yard users an electric fee for the actual use of electricity from those meters as the City meters have two outlets and no way to separate or determine usage by vessel. Electric for both yards needs to be evaluated and updated for metered customer usage with locking mechanisms for accountability. Additionally, there are City meters that are inoperable with outlets that are nonfunctional that should be repaired.

Water Treatment Plant Raw Water Transmission Line Replacement

Project Summary & Benefit: This project will replace the lower portion of the raw water transmission line, composed of thin-walled steel, with ductile iron. This capital improvement will safeguard and protect Seldovia's drinking water supply infrastructure by correcting a problem that poses a clear danger to human health and safety.



Project Description: Seldovia's water source is a dammed stream. A 2,850-foot, 10-inch transmission line connects the Seldovia Upper Dam to the Seldovia Water Treatment Plant (WTP), which is located adjacent to the 550,000-gallon water supply tank.

The upper 1,800 feet of the transmission line was replaced with ductile iron pipe in 1983. The lower 1,050 feet of the transmission line is thin-walled steel (TWS) pipe from 1963.

The TWS pipe is over 50 years old, and TWS pipe of a similar age elsewhere in Seldovia's water distribution system has failed catastrophically, most recently in 2017 (ie. TWS pipe between the WTP and the distribution system). This failure led to a leak of 100,000 gallons per day.

The lower 1,050 feet of transmission line comprised of TWS pipe needs to be replaced with ductile iron pipe to safeguard Seldovia's water supply. Any capital improvement projects that ensure the City of Seldovia retains as much water as possible and prevent leakage is especially critical given the 2019 drought Seldovia faced, which was declared an emergency disaster by the Kenai Peninsula Borough and City of Seldovia.

This project was the City of Seldovia's #1 overall priority for the Alaska Legislature's consideration for State funding. Senator Murkowski secured FY2023 CDS appropriations for this project. Cost estimates to perform the work show the project cost has increased by 186% from \$516,780 to \$1,480,000 in 2023 construction dollars. The original cost of construction estimate was generated using information in the SOA STARS database with inflation applied. In 2023 an updated cost estimate of \$1,620,000 was prepared by CRW Engineering and the City of Seldovia requested a technical correction through the EPA to combine CDS project funding appropriated for the Raw Water Transmission Line Replacement Project and the Bloch Street Sewer Main Replacement Project to one single project, the Raw Water Transmission Line Replacement. Additional funding is still needed and will be sought through the FY2024 CDBG, Denali Commission, and State Revolving Fund program.

Total Project Cost: \$1,620,000

CY23 Federal Requested Share: \$1,066,000

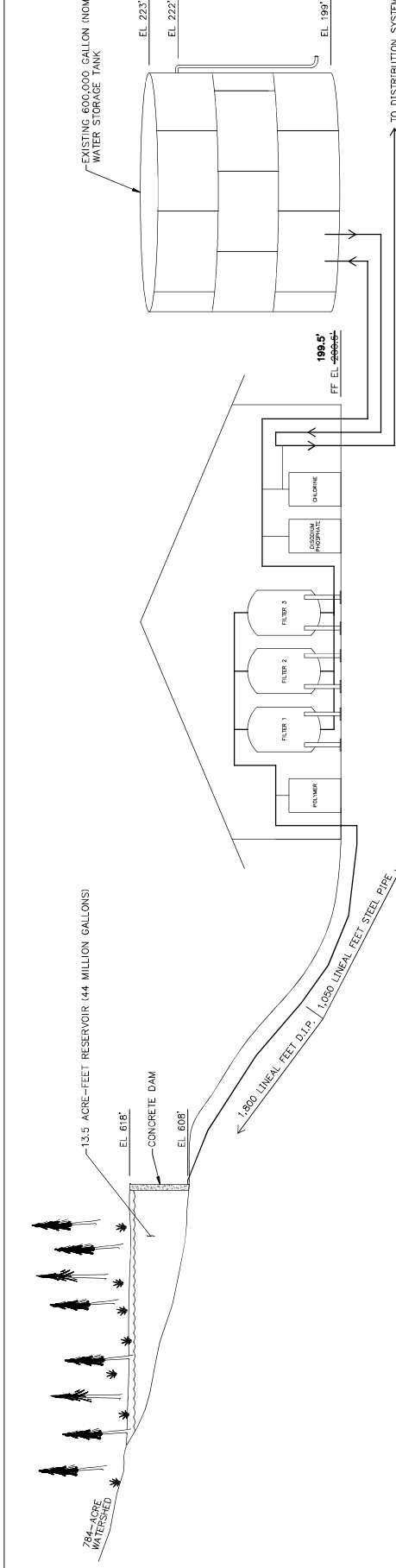
FY25 Requested State Share: \$544,000

City Share: Unfunded

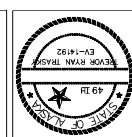
Schedule:

- Project listed in VSW STARS Database
- 2023 funds appropriated through CDS request
- October 2023, City requests CDS technical correction to combine funding
- Dec. 2023 - City requests state share from Alaska Legislature (CAPSIS)
- 2024: funding received from CDS requests, additional funding continues to be sought.
- Once funding is received, City will issue RFP to secure an engineering firm to design replacement. Then an RFP for construction.

Notes: *Engineering plans must be developed and then submitted to the ADEC Drinking Water Program. ADEC Plan Review will be required (\$500 fee) given the length of the replacement line is longer than 1,000 feet. *Federal funding requires 20% match.



Alaska Department of Environmental Conservation
Division of Water
Village Safe Water Program
555 Cordova Street 4th Floor
Anchorage, Alaska 99501
Phone: (907) 562-2322
Fax: (907) 561-2273



SELDOWIA, ALASKA
WATER TREATMENT PLANT
DESIGN CRITERIA

NO.	REVISION	BY	DATE

Approved: TRT
 Drawn: TRT
 Designed: TRT
 Date: 5/17/18
 Sheet No.: 6003

POPULATION DATA

POPULATION (2014)
 SELDOWIA RESIDENT (2008 DOCD CERTIFIED) 284
 SELDOWIA SEASONAL RESIDENT 54
 SELDOWIA VILLAGE RESIDENT 63
 SUMMER VISITOR 200
 ANNUAL POPULATION GROWTH RATE
 SELDOWIA SEASONAL RESIDENT 1.5%
 SELDOWIA SEASONAL RESIDENT 0.5%
 SELDOWIA VILLAGE RESIDENT 1.5%
 DESIGN LIFE 20 YEARS (2035)
 DESIGN POPULATION (2035)
 SELDOWIA SEASONAL RESIDENT 881 PEOPLE
 SELDOWIA SEASONAL RESIDENT 600 PEOPLE
 SELDOWIA VILLAGE RESIDENT 227 PEOPLE
 SUMMER VISITOR 200 PEOPLE

WATER DEMAND

BASED ON WATER RECORDS FROM 2014.
 THE SUMMER MONTHS OF JUNE THROUGH AUGUST GENERATED THE HIGHEST AVERAGE DAILY WATER DEMAND OF APPROXIMATELY 215,000 GALLONS PER DAY.
 DESIGN DEMAND FOR 2035:
 DAILY AVERAGE DESIGN DEMAND 272,000 GAL/DAY
 SUMMER AVERAGE DAILY FLOW 169 GPM
 MAXIMUM DAY DEMAND MULTIPLIER 1.5
 MAXIMUM DAY DEMAND 408,000 GALLONS
 MAXIMUM DAILY FLOW 284 GPM
 DESIGN FLOW RATE 135-285 GPM

ELEVATIONS & STORAGE

USABLE WATER STORAGE VOLUME 570,000 GAL
 CURRENT WATER STORAGE VOLUME 500,000 GAL
 SURFACE WATER STORAGE AT SUMMER DEMAND 222 FT ABOVE MSL
 BASE ELEVATION 199 FT ABOVE MSL
 OVERFLOW ELEVATION 222 FT ABOVE MSL

TREATMENT OBJECTIVES

PARAMETER MCL UNITS RANGE
 TURBIDITY NTU 0.0 - 0.25
 CONCENTRATION
 CALCIUM HYPOCHLORITE 0.2 MG/L FREE CHLORINE RESIDUAL

REGULATORY CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

WATER DEMAND

BASED ON WATER RECORDS FROM 2014.
 THE SUMMER MONTHS OF JUNE THROUGH AUGUST GENERATED THE HIGHEST AVERAGE DAILY WATER DEMAND OF APPROXIMATELY 215,000 GALLONS PER DAY.
 DESIGN DEMAND FOR 2035:
 DAILY AVERAGE DESIGN DEMAND 272,000 GAL/DAY
 SUMMER AVERAGE DAILY FLOW 169 GPM
 MAXIMUM DAY DEMAND MULTIPLIER 1.5
 MAXIMUM DAY DEMAND 408,000 GALLONS
 MAXIMUM DAILY FLOW 284 GPM
 DESIGN FLOW RATE 135-285 GPM

ELEVATIONS & STORAGE

USABLE WATER STORAGE VOLUME 570,000 GAL
 CURRENT WATER STORAGE VOLUME 500,000 GAL
 SURFACE WATER STORAGE AT SUMMER DEMAND 222 FT ABOVE MSL
 BASE ELEVATION 199 FT ABOVE MSL
 OVERFLOW ELEVATION 222 FT ABOVE MSL

TREATMENT OBJECTIVES

PARAMETER MCL UNITS RANGE
 TURBIDITY NTU 0.0 - 0.25
 CONCENTRATION
 CALCIUM HYPOCHLORITE 0.2 MG/L FREE CHLORINE RESIDUAL

REGULATORY CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

POPULATION DATA

POPULATION (2014)
 SELDOWIA RESIDENT (2008 DOCD CERTIFIED) 284
 SELDOWIA SEASONAL RESIDENT 54
 SELDOWIA VILLAGE RESIDENT 63
 SUMMER VISITOR 200
 ANNUAL POPULATION GROWTH RATE
 SELDOWIA SEASONAL RESIDENT 1.5%
 SELDOWIA SEASONAL RESIDENT 0.5%
 SELDOWIA VILLAGE RESIDENT 1.5%
 DESIGN LIFE 20 YEARS (2035)
 DESIGN POPULATION (2035)
 SELDOWIA SEASONAL RESIDENT 881 PEOPLE
 SELDOWIA SEASONAL RESIDENT 600 PEOPLE
 SELDOWIA VILLAGE RESIDENT 227 PEOPLE
 SUMMER VISITOR 200 PEOPLE

WATER DEMAND

BASED ON WATER RECORDS FROM 2014.
 THE SUMMER MONTHS OF JUNE THROUGH AUGUST GENERATED THE HIGHEST AVERAGE DAILY WATER DEMAND OF APPROXIMATELY 215,000 GALLONS PER DAY.
 DESIGN DEMAND FOR 2035:
 DAILY AVERAGE DESIGN DEMAND 272,000 GAL/DAY
 SUMMER AVERAGE DAILY FLOW 169 GPM
 MAXIMUM DAY DEMAND MULTIPLIER 1.5
 MAXIMUM DAY DEMAND 408,000 GALLONS
 MAXIMUM DAILY FLOW 284 GPM
 DESIGN FLOW RATE 135-285 GPM

ELEVATIONS & STORAGE

USABLE WATER STORAGE VOLUME 570,000 GAL
 CURRENT WATER STORAGE VOLUME 500,000 GAL
 SURFACE WATER STORAGE AT SUMMER DEMAND 222 FT ABOVE MSL
 BASE ELEVATION 199 FT ABOVE MSL
 OVERFLOW ELEVATION 222 FT ABOVE MSL

TREATMENT OBJECTIVES

PARAMETER MCL UNITS RANGE
 TURBIDITY NTU 0.0 - 0.25
 CONCENTRATION
 CALCIUM HYPOCHLORITE 0.2 MG/L FREE CHLORINE RESIDUAL

REGULATORY CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

DIRECT FILTRATION CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

BACKWASH/AIR SCOUR CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

MICROBIAL REGULATORY REQUIREMENTS

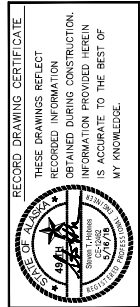
SWTR REQUIREMENTS:
 CRYPTOSPORIDIUM 99.99% (4-LOG) REMOVAL/INACTIVATION
 VIRUS 99.99% (4-LOG) REMOVAL/INACTIVATION
 LESWER AND LESWER REQUIREMENTS:
 CRYPTOSPORIDIUM 99% (2.0-LOG) REMOVAL

DIRECT FILTRATION CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION

BACKWASH/AIR SCOUR CRITERIA

TRC MCL REQUIREMENTS:
 CRYPTOSPORIDIUM 3 LOG REMOVAL / INACTIVATION
 VIRUS 4 LOG REMOVAL / INACTIVATION
 CRYPTOSPORIDIUM 2 LOG REMOVAL / INACTIVATION



RECORD DRAWING CERTIFICATE
 THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

Airport Avenue Water Main Maintenance- Depth Correction

Project Summary & Benefit: This project will evaluate and plan for a maintenance project that will correct the depth of forty-foot section of water main on Airport Avenue.



Total Project Cost: \$50,000

FY25 Requested State Share: TBD

City Share: Unfunded

Schedule:

2023: request emergency funding from Village Safe Water.

FY24: Airport Avenue is included in planning funding awarded by VSW to evaluate the City of Seldovia overall water and sewer utility system.

FY24-FY25: System evaluated.

FY26: Apply for Village Safe Water Construction Funding for the project.

Project Description: The section of water main on Airport Avenue between Frank Raby Drive and the Seldovia Slough Bridge was discovered to be a substandard depth with an elevation near the grade of Airport Avenue uncovered during the installation of a new driveway. The shallow depth is due in part to a large embankment having been removed during the installation of the driveway which was required to be at grade of road by ADOT. A second driveway installation on the neighboring property should be considered as part of the forty-foot maintenance project.

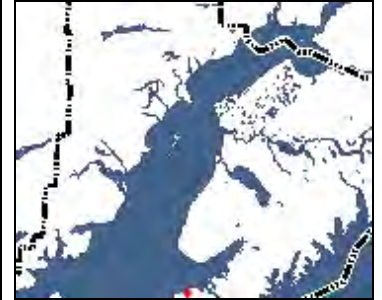
Considerations for project; feasibility of lowering a forty-foot section of the water main with four 22.5-degree bends through use of fittings and while still providing adequate driveway access for both lots impacted, 2C and 2B. The lowering of a forty-foot section of main is considered maintenance of the main and may not require ADOT permitting, ADEC permitting, and engineering. Maintenance is required to be in accordance with standard specifications for water main construction and a temporary water bypass would be necessary.

Cost estimates in 2022 are \$1200/foot. For construction of 40 feet of water main, a rough order of magnitude cost would be \$50,000 for design and construction.

Aligns with City of Seldovia Comprehensive Plan; Community & Human Resource- Cost effectively manage core public services.



Airport Avenue Main



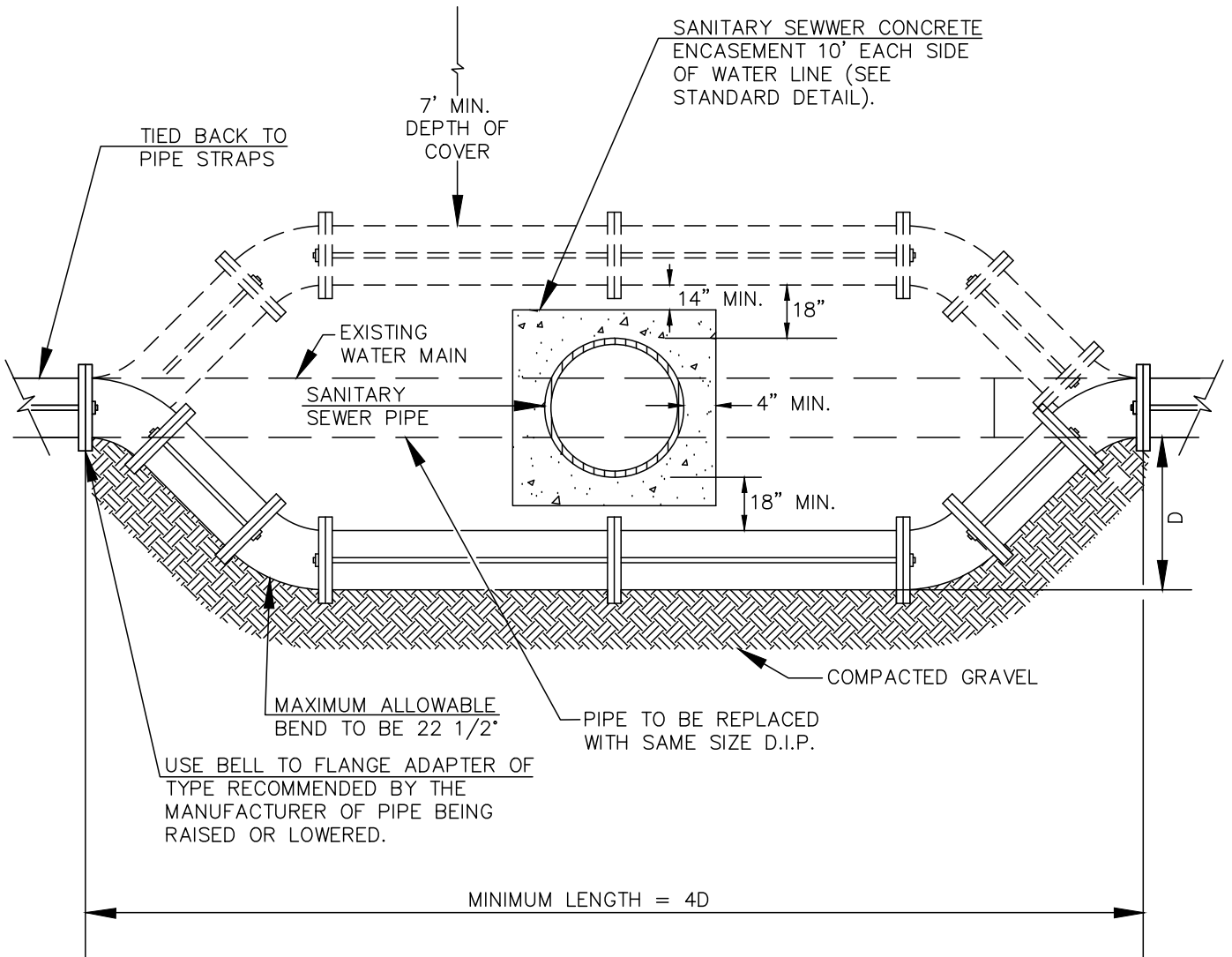
Legend

- Mileposts
- City Limits
- Highways
- Major Roads
- Roads
 - Town Medium Volume
 - Town Low/Seasonal; Other
 - ⋯ Proposed
- Parcels

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. It is not to be used for navigation.

Notes

Type any notes here.



NOTE: ALL JOINTS TO BE TIED TOGETHER WITH 3/4" THREADED ROD. TIE RODS TO BE SUPPORTED EACH 27' TO INSURE A SYMMETRICAL LOCATION.

EVERY EFFORT SHOULD BE MADE TO RELOCATE WATER MAIN LINE UNDER THE SEWER MAIN LINE.



SCALE:
NTS

REVISED:
6/99

RELOCATE WATER MAIN (SANITARY SEWER)

DETAIL #

700.02

Seldovia Upper Dam & Reservoir Improvements

Project Summary & Benefit: This project will make some of the recommended improvements listed in the 2022 Seldovia Upper Dam Periodic Safety Inspection. This capital improvement will safeguard and protect Seldovia's drinking water supply infrastructure by correcting problems that may compromise Seldovia's only drinking water source. Making these improvements also ensures AKDNR continues to renew the permit that allows the City to operate the Upper Dam and provide drinking water to the community.



Timber Spillway in need of repair.

Total Project Cost: \$71,500

FY25 State Share Requested: \$71,500

City Share: Unfunded

Schedule:

-Jan. 2023- City determine method to estimate costs for improvements recommended in 2023 PSI report

-2023: Project included in FY23 Village Safe Water Planning Project Funding

Notes: These improvements were also noted by ARWA during their 2019 Sanitary Survey of the City of Seldovia Water System. Seldovia currently does not have a back-up water supply. Fish Creek was identified in 2003 as a back-up source however ADEC required this water source be shut down in 2000 due to the presence of giardia and cryptosporidium.

Project Description: Seldovia's water source is a dammed stream (the "Seldovia Upper Dam"). The dam was completed in 1953 for the US Dept. of Interior and the reservoir is approximately 11.2 acre-feet in size. In the 2022 Periodic Safety Inspection (PSI), the engineer's top recommendations for improving the operations of the dam were the following: (1) use the city's existing topographic map of the dam to

perform a simplified dam break analysis. During this process, an inundation

map will be prepared to provide a quantitative evaluation to determine hazard classification; (2) repair the timber spillway; (3) repair the concrete spalling; (4) repair seepage at the base of the dam; and (5) power spray and remove algae. Another improvement recommended in the 2016 Periodic Safety Inspection is: "Remove existing coat and repair coating of the upstream face of the dam due to ice damage." This would be a substantial improvement to undertake, as it would require figuring out how to hold water away from the inner wall of the reservoir in order to make the improvements while still providing the community with drinking water. This could mean installing a partition or separating wall within the current reservoir, or sourcing and digging a well to serve as a temporary water source for the community, or determining if water from Fish Creek can serve as a temporary water source for the community and purchase an on-site water treatment system for the creek. In 2023, the City will work with the State to produce an emergency action plan. As the City moves forward with making repairs to the raw water transmission line, it may be cost effective to explore simultaneously making the repairs to the dam's inner wall coating. Please see CRW's 2022 Water and Sewer Project Priorities Funding Strategy Analysis for additional information.

1. Based on a review of the downstream terrain, houses, cabins, airport, and hangars, we recommend the existing topographic mapping be used to perform a simplified dam break analysis. An inundation map should be prepared to provide a quantitative evaluation to determine hazard classification. This should be completed in conjunction with a Hazard Potential Classification and Jurisdictional Review form. Included in this would be the assessment of the occupancy of the downstream home and hangar to better assess the probable loss of human life.
2. An Operation and Maintenance (O&M) manual should be prepared and kept on file by the City of Seldovia and DNR Dam Safety. The O&M manual should be used as a guide for operation procedures, maintenance and monitoring procedures that should be performed between each Periodic Safety Inspection. An O&M manual is required by DNR regulations to receive a Certificate of Approval to operate a dam.
3. We recommend an Emergency Action Plan (EAP) be prepared and kept on file by the City of Seldovia and DNR Dam Safety if the classification is upgraded from Class III to a Class I or II. The EAP is not required for Class III dams.
4. Trees and vegetation should be cut annually to minimize the formation of root systems adjacent to the dam and surrounding outlet pipes. We recommend clearing a minimum distance of 15 feet from the downstream face of the dam and around the spillway. The left abutment at the crest should be kept clear of brush.
5. The timber spillway requires repair on both sides and to cross bracing. Replace the left timber support for spillway guide boards with treated timber; either replace or add an additional beam to right timber support for spillway guide board. Use similar size and “marry” to existing beam. Replace cracked diagonal cross braces at base support above the concrete footing using similar size treated timber.
6. Remove existing coat and repair coating of the upstream face of the dam due to ice damage. Recommended coating consists of a 60 mil thickness of Elastall 1000 topped with a Uniflex 255 ultra-violet protective barrier. The protective barrier is not performing well. It is recommended the manufacturer be contacted (United Coatings – 800-527-7012) concerning the ice damage noted at this barrier. Based on the narrow width of the dam crest this should be reapplied per the Manufacturer’s recommendations.
7. Power spray and remove algae from concrete and timber surfaces annually.
8. Power spray spillway to remove algae on surfaces and in joints between boards. Apply joint caulk to minimize potential for leakage. Apply sealant to timber spillway guideboards and spillway. Apply sealant to timber spillway after algae is removed. A coat of wood preservative, such as Thompsons’ Water Seal or similar wood preservative should be used on the spillway floor.
9. Power spray timber spillway cap and treat with water sealant. A coat of wood preservative, such as Thompsons’ Water Seal or similar wood preservative should be used on the timbers spillway cap.
10. The stainless steel cables used to operate the sliding gate valves should be monitored as part of the O&M operation. If strand breakage is noted these should be replaced with a heavier duty stainless steel cable system.
11. Concrete spalling on right side of timber spillway should be repaired.
12. Sediment deposition in reservoir should be monitored to determine when future dredging may be required.
13. Potential seepage was noted at the base of the dam near the right abutment. By the end of August 2016 the seepage appears to have continued during dry spells during the summer. We recommend the seepage be investigated and repaired. Repair would consist of radial grouting to form a seepage barrier.

14. Add additional guide boards and joint sealer between top right and left edge of timber spillway and concrete dam to maintain spillway flow between guide boards.
15. Clear brush on access route adjacent and downstream of dam.
16. Clear brush on primary vehicle access road, where overgrown, to maintain vehicle access.
17. Drain pipe on primary access road is damaged at inlet. Cut off damage at inlet end to provide suitable flow in pipe and minimize potential for road overflow and scour.

8.1. Conclusions on the Safety of the Dam and Future Performance

Based on DNR's *Guidelines for Assigning Condition Assessments to Existing Dams, version 1, December 3, 2012*, PND's site observations, evaluation of hydrologic and seismicity conditions, and review of record documents, it is PND's opinion that overall the Seldovia Upper Dam is in Poor condition with more analysis being needed. This condition is a change from PND's draft PSI report wherein we previously rated the dam as Fair. This change is primarily due to the limited evaluation of hydrology data for the dam being "not well supported" – see discussion in Section 7.1 of this report.

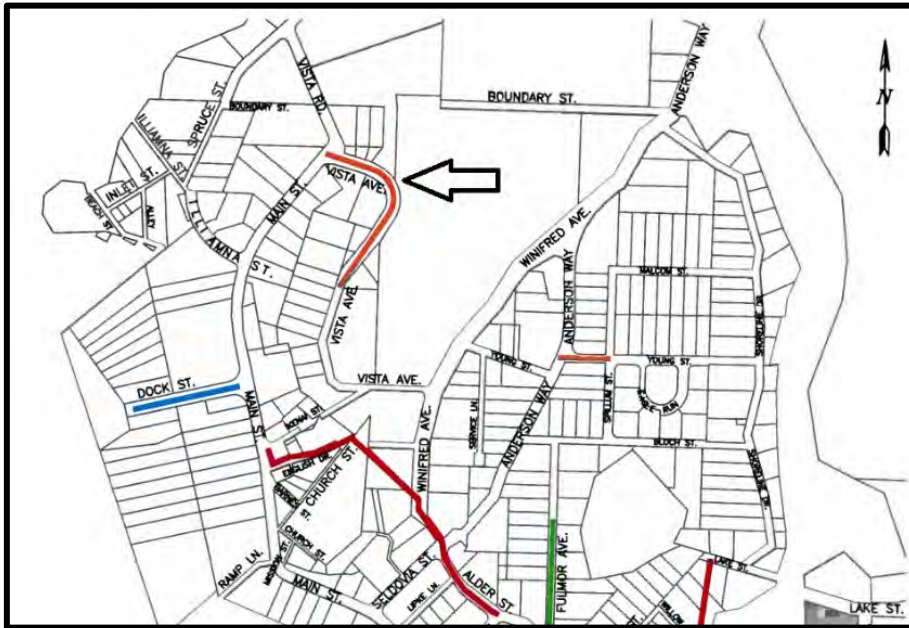
8.2. Recommendations for Additional Work

It is recommended that repairs to the spillway, clearing of algae, and monitoring of the potential seepage at the right abutment occur over the summer into fall of 2016. Should it be determined that seepage is continuing at the downstream face toe, and this is due to seepage between the concrete and bedrock then radial grouting should be considered to prevent underseepage flow.

It is recommended that an O&M manual be developed to reflect the current practices, safety requirements, and maintenance procedures recommend in this report. It is further recommended that an EAP be developed if the dam is upgraded to Class I or II.

Vista Avenue Water Line Replacement

Project Summary & Benefit: This project will replace the entire 6-inch water main of Vista Avenue with 8-inch main and insulate as well as provide electric heat tape to the main. This capital improvement will safeguard and protect Seldovia's drinking water supply infrastructure by reducing treated drinking water loss currently occurring from corrosion of the main. By upgrading the main to 8-inch pipe, this section of the water distribution system will align with recommended pipe size for fire hydrants.



Total Project Cost: \$840,000

FY25 State Share Requested: TBD

City Share: Unfunded

Schedule:

- Spring 2023: Apply for planning funding to improve the distribution system through Village Safe Water as the next planning project in the queue.
- 2023: Project included in FY23 Village Safe Water Planning Project Funding

2008 Report evaluated the section of Vista Avenue identified by the arrow.

Project Description: A 2003 Water Loss Reduction Actions Summary Study as well as a 2008 Water and Sewer Improvements Design Analysis Report identified and evaluated the corroded water main on Vista Avenue. The Vista Avenue water main is approximately 700 feet of 6-inch ductile iron pipe. The 2003 Study listed the water main as having corroded pipe with leaks and excessive pitting. The water main was excavated and exposed in September 2007 near sewer man hole cover #14. At that location in 2007, the piping appeared in good condition with no apparent corrosion and no pitting on the surface. It had no polyethylene encasement and had been installed without imported bedding material; the top of the pipe was 7.3 feet below grade. Back in 2008, it was recommended by the consulting engineer that the Vista Avenue water main **not** be upgraded at that time. In 2022 however, Public Works and Maintenance staff confirmed that the "top of the hill" section of Vista Avenue is corroded like "swiss cheese" believed to be occurring due to corrosive groundwater in the area. An emergency repair of the line to correct leaking occurred in September 2022, where the city applied a saddle as a temporary band-aid to the line.¹ Additionally, in 2008 the fire hydrant at the top of Vista Avenue was identified as being served from the 6-inch water main of Vista Avenue. It is standard practice for single pumper fire hydrants to be served from 8-inch water mains. If the Vista Avenue water main were upgraded to 8-inch diameter (from the existing 6-inch), the calculated water flow from this fire hydrant would increase from 600 gpm to 800 gpm.

Cost estimates for this project use a 2022 estimate provided by CRW Engineering of \$1,200 per foot of line replacement.

¹ A difficulty faced when conducting utility maintenance on Vista Avenue concerns the placement of the water and sewer line; as it currently stands, both lines run parallel to each other versus one on top of the other. By running in parallel, making connections to the line is difficult.

Dock Street Main and Water Connection Line Improvements to Prevent Freezing

Project Summary & Benefit: Every winter, the City Office and City Building leased by Seldovia Fuel and Lube must trickle treated drinking water to prevent lines from freezing. During the winter of 2021-2022, the water connection line at the City Office froze and the building went without running water for the winter season. This capital improvement will correct the water connection lines at both buildings to prevent possible danger to human health and safety.



Seldovia Fuel and Lube Building (left), City Office Building (right)

Total Project Cost: TBD

FY25 State Share: \$
City Share: TBD. Project assumed to cost greater than \$5,000 in materials and labor.

Schedule:

-2023: Project included in FY23 Village Safe Water Planning Project Funding

Project Description: The City Office is the central location for City of Seldovia Administration and Public Works & Maintenance staff. As a result of having a frozen water connection line, the City Office building had no running water or publicly available lavatories. This is not the first time the water connection line has frozen at the City Office. The City has been mitigating the potential for the water connection line to freeze by trickling water at the City Office through the winter however this approach is not fool-proof and wastes treated drinking water. The neighboring City facility leased by Seldovia Fuel and Lube also requires treated drinking water to be trickled in the winter months to ensure that building's water connection line also does not freeze. City staff are not certain of the location of the water connection line nor the key box that services the City Office building; this means the City cannot thaw out the water connection line at the City Office building if it freezes. This project will need the following information to proceed: (1) further investigation into the location of the water connection line at the City Office; (2) assessing the best approach to prevent the water connection lines at the City Office and City building leased by Seldovia Fuel and Lube from freezing; and (3) construction including the possibility of digging up the line and installing a second key box at the City Office and/or possibly installing heat trace line. By making these improvements, these two public facilities will no longer need to run treated drinking water down the drain to ensure the water connection lines do not freeze. This project will guarantee the accessibility of drinking water and usable lavatories at these buildings, as well as assist Public Works and Maintenance Staff in knowing the location of the connection lines, having two key boxes necessary for line thawing in case there is a freeze, and possibly installing heat trace line to ensure the lines do not freeze. Per the City of Seldovia Water and Sewer Upgrades Environmental Assessment prepared in 2009, *"service lines need to be insulated and protected with electric heat trace to reduce the likelihood of freezing."* Additionally, a 2008 CRW Water and Sewer Improvements Design Analysis Report noted the following concerning the water main that services both buildings, which could be a future project completed when the connection line improvement project is also underway:

Dock Street (Shallow Pipe)

The Dock Street water main (approximately 400 feet) is shown as 8-inch ductile iron pipe on City of Seldovia as-builts. City of Seldovia as-builts note that the size of the 8-inch diameter pipe on Dock Street has not been confirmed. *Table 30* lists this water main as shallow bury, subject to freezing. The as-builts indicate the main has 5 to 6 feet of cover. It has been reported that the freeze problems are the result of large aggregate backfill (rip rap) over the pipe which allows the depth of freeze to penetrate deeper than normal in Seldovia.

Dock Street is owned by the State of Alaska. George Oliveira, ADOT&PF's Seldovia maintenance foreman, noted that he would not object to leaving the street unpaved until a future phase of work provided for asphalt paving.

It is recommended that the Dock Street water main between Main Street and the City Dock be upgraded in a future phase of the water improvements. This upgrade may consist of new piping, or insulating the existing main.

Winifred Avenue – Anderson Way – Shoreline Drive Water Line Replacement

Project Summary & Benefit: This project will fulfill a recommendation made in 2003 to replace approximately 550 liner feet of old water main located on Winifred Avenue from Anderson Way to Shoreline Drive with 8” insulated ductile iron arctic pipe with appropriate cathodic protection applied. Due to the condition of the current pipe, this section of water main has been shut off for years, preventing water from moving through the system as a “loop” while also removing access to water for surrounding property owners. By replacing this section of pipe, water can flow through the system as designed. This will ensure the safe water quality of the system is maintained and provide surrounding lots with access to water to encourage development.



Total Project Cost: TBD
 FY25 State Share Requested: TBD
 City Share: TBD. Project assumed to cost greater than \$5,000 in materials and labor.

Schedule:
 -2023: Project included in FY23 Village Safe Water Planning Project Funding

Table 1 (Continued)
 Water Loss Reduction Actions

Location	From	To	Replace With	Approx. Length, lf
7) Lipke Lane	Main Street	Alder Street	8" DIAP	300
8) Young Street	Spillum Street	Eagle Run	8" DIAP	250
9) Iliamna Street	Main Street	Inlet Street	8" DIAP	400
10) Winifred Ave	Anderson Way	Shoreline Drive	8" DIAP	550
Total				7,050

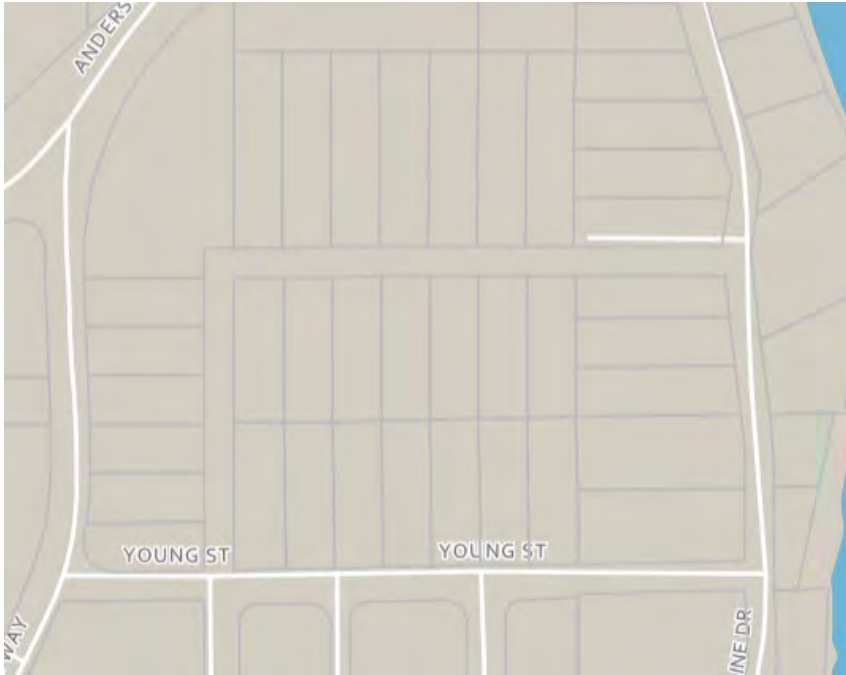
Note: lf = linear feet

Project Description: According to the 2003 Water and Sewer Feasibility Study prepared by Michael Foster & Associates, Seldovia has a very old and worn water distribution system with pipes throughout the system operating beyond their useful life. These pipes - based on their material composition, age, and the highly corrosive nature of Seldovia’s groundwater- may be corroded and contributing to excessive water leaks. Many significant upgrades have been made but there are still old pipes remaining in the system. It is assumed that the water main section

located on Winifred Avenue from Anderson Way to Shoreline Drive was put in place prior to 1971 and that this type of pipe has a life expectancy of 50 years. As a result of the pipe’s current condition, corroded with multiple leaks from erosion, the City shut off water flow to this section of pipe prior to 2012. As a result, water no longer flows through the system in a loop as designed, which may cause water to stagnate and reduces redundancy in the system. Additionally, there are lots that no longer have access to water as a result of the condition of the pipe. The City is the main property owner served by this section of water main. The City has explored this area of town as a potential site for affordable housing development or municipal land sales. Water is a critical component to development, with all owners of real property being required to connect into the City’s utility system. Replacing approximately 550 liner feet of the old water main located on Winifred Avenue from Anderson Way to Shoreline Drive with 8” insulated ductile iron arctic pipe (with appropriate cathodic protection applied) will allow water to flow through the system as designed and the community is better positioned to explore housing development in the future as a result of water returning to the site. Consideration should also be given for the evaluation of the water main still in use on Anderson Way, as since 2012, several repair and band-aids have been made in this area due to corrosion from groundwater.

Spillum and Malcom Subdivision Water Main Extension

Project Summary & Benefit: This project will evaluate and plan for the installation of a water main extension in the Spillum/Malcolm Subdivision to promote and allow for development of housing opportunities in the community.



Total Project Cost: \$800,000

FY25 State Share Requested: TBD

City Share: TBD.

Schedule:

-Fall 2026: Consult engineering firm to determine best method for extending water service to parcels and secure cost estimate to perform work. Submit project to VSW for incorporation into STARS database.

-Spring 2027: Evaluate incentives for incorporation of ADUs into housing development, partnership potential for lot development with SVT, and if revenue generated from disposal could be enough to cover/offset water main construction costs.

Project Description:

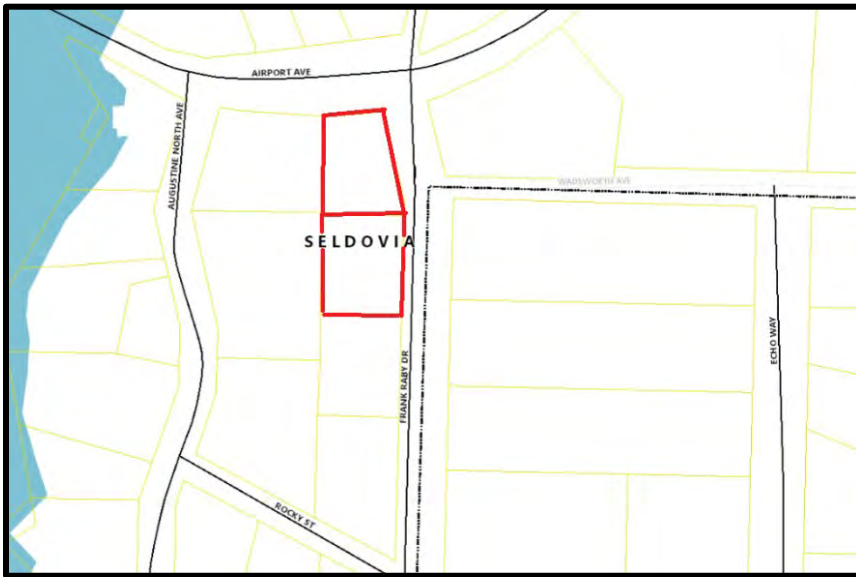
The Spillum Malcolm Subdivision is an undeveloped area in the City of Seldovia containing fourteen lots. Lots are undeveloped due to limited access through wetlands and bedrock. Planning efforts should consider water, sewer, and right-of-way access for the area to promote future development.

The Kenai Peninsula 2021-2026 Comprehensive Economic Development Strategy and the City of Seldovia 2014 Comprehensive Plan includes workforce development as a priority and focus, with workforce and human capital including; housing, transportation, and childcare. In 2023 the Seldovia City Council identified affordable housing as a priority. The development of water, sewer, and right-of-way access for the large undeveloped Malcolm and Spillum Subdivision will promote and allow for the development of additional housing opportunities in a community limited in size.

Cost estimates for maintenance and/or construction of a water main in 2022 were \$1200/foot. The proposed development is approximately 650 feet and projected at \$800,000 for cost.

Frank Raby Water Main Extension

Project Summary & Benefit: This project will determine the best method for extending water service to the City parcels located on Frank Raby Drive to support the future disposal of the lots through a housing development pilot project that requires single or multi-family housing and also incentivizes incorporating accessory dwelling units (ADUs) into the building.



Total Project Cost: TBD
 FY25 State Share Requested: TBD
 City Share: TBD. Project assumed to cost greater than \$5,000 in materials and labor. The City did an in-house preliminary cost estimation and determined materials alone for the project (assuming 450 ft of pipe needed) would be \$75,390. This estimate does not reflect design or permitting, just material cost.

Schedule:
 -Fall 2026: Consult engineering firm to determine best method for extending water service to parcels and secure cost estimate to perform work. Submit project to VSW for incorporation into STARS database.
 -Spring 2027: Determine fair market value of lots, method of lot disposal that would require/guarantee single or multifamily housing development in consultation with City Attorney, develop incentive for incorporation of ADUs into housing development, partnership potential for lot development with SVT, and if revenue generated from disposal could be enough to cover/offset water main construction costs.
 -Evaluate if there is the potential to extend utility services to support future annexation of subdivision located outside of city limits.

Project Description:

Seldovia Municipal Code requires all owners of real property to connect into the public water and wastewater utility systems. Seldovia City Council has discussed the need for more housing in Seldovia, and the disposal of the two municipal lots on Frank Raby Drive is one way to support this need however the lots do not have access to water or sewer. The first step for this project will require consulting an engineering firm to determine the best method for extending preexisting water infrastructure to Frank Raby Drive as well as cost estimates to perform this work (including permitting and design requirements). The City may consider a pilot project that disposes of these lots in a manner that requires single or multi-family housing development and incentivizes incorporating accessory dwelling units (ADUs) to provide long term rental opportunities. The City can determine if the revenue generated from disposal of the lots could be enough to cover or significantly offset the expenses associated with bringing water and sewer to the area. Additionally, the City could also explore how utility extensions in this area could support a future annexation of a subdivision located outside of city limits, as well as, the two additional parcels located on Frank Raby Drive that currently do not have water and sewer utility access.

Seldovia Slough Sewer Improvements Project

Project Summary & Benefit: This project, broken out into three phases, will repair and replace the Slough sewer system. These improvements will help prevent high inflow and infiltration (I&I) into the slough wastewater system, reducing public health and safety risks such as insufficiently treated effluent while preventing financial loss to the City such as the excessive operation of lift stations and associated electricity costs. This project is considered essential for the continued operation and maintenance of the overall Seldovia sewer system. It will address a significant need, which is reducing the infiltration and inflow of salt water into the gravity sewer collection system, with the majority of that inflow and infiltration occurring at the Seldovia Slough. Additionally, it is important to note that the Seldovia Slough supports a Chinook salmon fishery. ADF&G plants Chinook smolt in the Seldovia Slough that residents and visitors alike can catch and consume. By correcting I&I issues from this section of the wastewater collection system, the treatment of Seldovia’s wastewater overall will improve.

Total Project Cost: \$3,173,000

FY24 State Share: \$2,588,000 (2025 construction dollars)

FY24 State Revolving Fund: \$495,000, with 100% forgiveness

City Share: \$0

Schedule:

-Project listed in VSW STARS Database
 -Design Study Report conducted by CRW in May 2014

-Jan. 2023 - City requests capital funding from Alaska Legislature (CAPSIS) to cover any gap funding needs from non-year-round residents

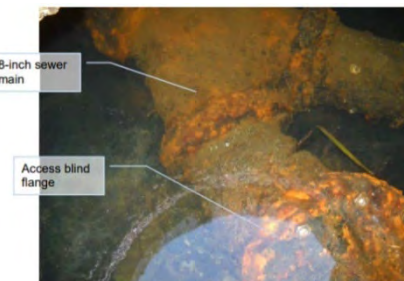
-March 2023- City requests VSW and Denali Commission construction funding in conjunction with the wastewater treatment alternative project

-2023 Funding awarded, environmental review required for SRF

Project Description:

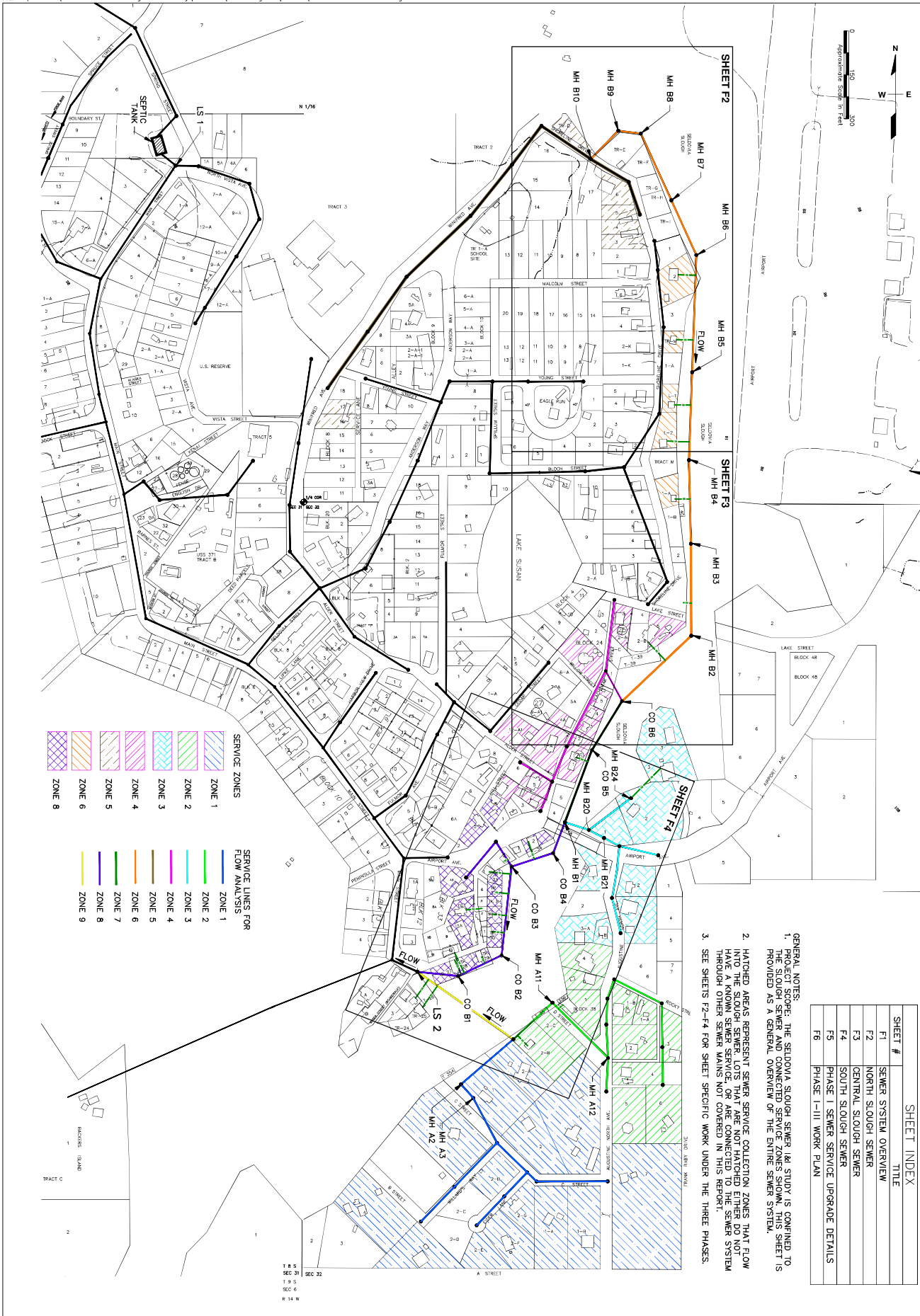
Making improvements to the wastewater system located within the Seldovia Slough has been broken out into three phases:

- Phase I includes the repair and replacement of sewer system components identified as significant sources of I&I. The work will include reconstruction of 20 Slough sewer services with jointless HDPE piping and removing and capping 5 cleanouts in the Slough.
- Phase II will upgrade 1,443 feet of the 8-inch original cast iron Slough sewer main with corrosion-resistant HDPE piping along the west side of the lower Slough.
- Phase III will upgrade 1,471 feet of ductile iron Slough sewer main with 8- inch fused HDPE piping along the east side of the lower Slough including both Slough crossings.



Some of the properties on the Seldovia Slough are not owned by year-round residents and do not qualify for VSW construction funding to improve their connections to the wastewater system. The City will need to determine a method to fund these project expenses. In 2022, staff met with VSW and Denali Commission staff to explore if the Commission could provide the gap funding for non-year-round resident project expenses. The City issued a survey in 2022 to determine residency status for the 30 properties identified by VSW as being served by this project. Staff concluded eighteen properties are owned by non-year-round residents. In 2014, the estimated cost to make improvements per property was \$26,000. Therefore, an estimated total in 2014 construction dollars for the gap funding needed for this project totals \$468,000. Additionally, a property owner has shared concerns regarding the Seldovia Slough central sewer main impacting flow of water in the area. This feedback has been shared with the State of Alaska for their consideration. More information concerning this project can be found in the May 2014 Slough Sewer System Inflow & Infiltration Design Study Report

available on the City’s website: www.cityofseldovia.com/water-and-sewer.



- GENERAL NOTES:**
1. PROJECT SCOPE: THE SELDOVIA SLOUGH SEWER I&I STUDY IS CONFINED TO THE SLOUGH SEWER AND CONNECTED SERVICE ZONES SHOWN. THIS SHEET IS PROVIDED AS A GENERAL OVERVIEW OF THE ENTIRE SEWER SYSTEM.
 2. HATCHED AREAS REPRESENT SEWER SERVICE COLLECTION ZONES THAT FLOW INTO THE SLOUGH SEWER. LOTS THAT ARE NOT HATCHED EITHER DO NOT HAVE A KNOWN SEWER SERVICE, OR ARE CONNECTED TO THE SEWER SYSTEM THROUGH OTHER SEWER MAINS NOT COVERED IN THIS REPORT.
 3. SEE SHEETS F2-F4 FOR SHEET SPECIFIC WORK UNDER THE THREE PHASES.

SHEET INDEX	
SHEET #	TITLE
F1	SEWER SYSTEM OVERVIEW
F2	NORTH SLOUGH SEWER
F3	CENTRAL SLOUGH SEWER
F4	SOUTH SLOUGH SEWER
F5	PHASE I SEWER SERVICE UPGRADE DETAILS
F6	PHASE I-III WORK PLAN

Sheet No.	F1
Plot Date	5/9/14
Designed	
Drawn	
Approved	

NO.	REVISION	BY	DATE

CITY OF SELDOVIA, ALASKA
SLOUGH SEWER SYSTEM I&I STUDY

SEWER SYSTEM OVERVIEW

CRW
ENGINEERING GROUP, LLC
 3940 ARCTIC BLVD, SUITE 300
 ANCHORAGE, ALASKA 99503
 PHONE: (907) 862-3332
 FAX: (907) 561-2273

Alaska Department of
 Environmental Conservation
 Division of Water

50
 Village Safe Water Program
 555 Cordova Street 4th Floor
 Anchorage, Alaska 99501

Sewer Treatment Facility Improvements Project

Project Summary & Benefit: This project will upgrade and improve how Seldovia’s wastewater is treated and managed. Seldovia’s current wastewater treatment system inadequately provides primary treatment of effluent before the effluent is discharged through an outfall line located at a popular beach (“Inside Beach”) to the Seldovia Bay. This capital improvement, which has been a city priority to accomplish for over 5 years, will protect the public and environment by correcting a problem that poses a clear danger to human health and safety. It will also remove vegetation and debris that surrounds the septic tank.

Project Description:

The Seldovia sewer system consists of gravity sewer mains and two lift stations. The Septic Tank Lift Station (also known as the “beach lift station”) is located at the north end of Main Street and discharges wastewater to the City’s sole septic tank for treatment. The Slough Lift Station is located at the south end of Main Street and collects wastewater from the Slough sewers. All collected sewage drains to the Main Street sewer and is transported to the beach lift station, which discharges into the 70,000-gallon community septic tank for primary treatment. Treated effluent is disposed of through an ocean outfall in Seldovia Bay about 12 feet below mean low water.

Wastewater treatment is required to prevent pollution of the environment and drinking water sources. There are two basic stages in the treatment of wastes: primary and secondary. In the primary stage, solids are allowed to settle and are removed from the wastewater. The secondary stage uses biological processes to further purify dissolved solids in the wastewater. These stages may be combined into one operation. In accordance with the EPA Clean Water Act, sewage treatment facilities must provide primary and secondary treatment for domestic sewage. Because of the unique situations encountered in rural Alaska, ADEC evaluates applications for domestic wastewater system plans on a case-by-case basis.

Seldovia’s State-issued 1995 wastewater discharge permit (ADEC 9440-DB005-2A) expired in 1999; the City currently does not have an active permit. This is because the City of Seldovia was listed in the 1979 Federal Register List for ‘Modification of Secondary Treatment Requirements for Discharge into Marine Waters.’ In partnership with the State Village Safe Water (VSW), an engineering firm was hired to produce a Preliminary Engineering Report (PER) to go over alternatives for how Seldovia can improve its current wastewater treatment system. Once the PER is finalized and the City is in agreement with the findings, the City can then pursue VSW construction funding in conjunction with the funding needed to improve the inflow and infiltration occurring at the Seldovia Slough.

As detailed in the 1995 permit, the City’s general wastewater disposal permit was issued for the disposal of treated domestic wastewater less than 250,000 gpd. In the 2003 City of Seldovia Water and Feasibility Study, it was noted that Seldovia’s “wastewater system, routinely has daily discharge volumes of 250,000 gallons or more.” A significant cause for this overage is the inflow and infiltration problems in Seldovia’s wastewater

Total Project Cost: \$15,735,000

FY24 State Share: \$1,573,500

City Share: Unfunded

Schedule:

-Spring 2023- PER finalized

-Spring 2023- City to meet with SVT and discuss project and explore partnership potentials based on regional priorities

-March 2023- City requests VSW construction funding in conjunction with Seldovia Slough I&I project

-Initial funding awarded 2023, for design and initial construction, City will work with VSW to secure an engineering firm to design and make improvements based on the 2022/2023 report and assist with permitting.

system (as detailed in wastewater priority #2). The infiltration and inflow cause high pumping rates into Seldovia's septic tank, which results in inadequate treatment of wastewaters. Per the 2003 report, *"the result is increased health and environmental risks for the Seldovia ocean outfall areas."* Additionally, the report details the high flow rate contributes to the inability of the septic tank to provide primary treatment and contain the solids. *"The septic tank is grossly undersized for current wastewater flows,"* according to the report. *"The net result is that the septic tank is not providing adequate primary wastewater treatment."*

The 2003 report detailed three wastewater treatment alternatives for the City to consider: (1) septic system modifications, (2) stabilization ponds – 2 options, and (3) a new wastewater treatment plant. There are challenges present for all three of these alternatives, and this report is almost 20 years old.

The final 2022/2023 PER detailed five alternatives and the City Council discussed and approved alternative 1 rehabilitate existing septic tank and alternative 5 construct an aerated lagoon, with preference given for alternative 5 in the interest of having a long-term solution for waste disposal and secondary treatment for that disposal.

In 2023, 10% of the required funding was awarded through VSW, in partnership with the USDA Rural Development, to complete design and initiate construction. This project will be included in the Multi-Year Priority List for VSW and USDA and prioritized for additional funding in future fiscal years as necessary to complete the project. With funding awarded, the City will work with the engineering firm selected to make improvements to the site to clean up the municipal property surrounding the septic tank, including brush and debris removal.

Modification of Secondary Treatment Requirements for Discharge into Marine Waters

AGENCY: United States Environmental Protection Agency ("EPA").

ACTION: Notice on Native Alaskan Villages.

SUMMARY: This notice delineates EPA's position on the applicability of 40 CFR Part 125 to Native Alaskan Villages and EPA's intention to consider other methods and alternative technologies for meeting the wastewater treatment needs in these native villages.

FOR FURTHER INFORMATION CONTACT: Ronald DeCesare, 301(h) Task Force Manager, Office of Water Program Operations (W11-540), U.S. Environmental Protection Agency, 401 M St., S.W., Washington, D.C. 20460, 202/426-8973.

SUPPLEMENTARY INFORMATION: On June 15, 1979, EPA published final regulations implementing section 301(h) of the Clean Water Act ("the Act"), as amended.

These final regulations establish the criteria and standards to be applied by EPA in acting on section 301(h) applications for modification to the secondary treatment requirements of the Act.

In the preamble to EPA's proposed section 301(h) regulations (43 FR 17484, 17486, April 25, 1978), EPA solicited comments on the question of whether and under what circumstances a special category could be established for small villages in Alaska, the Pacific Trust Territories and Puerto Rico. Additionally, the Agency solicited comments on how provisions of the Act other than section 301(h) might be utilized to provide assistance to these communities in dealing with their very singular health, social, economic, and water pollution control problems. The Agency, in requesting comments, recognized that many of the communities exist at near subsistence levels and do not have the technological ability either to construct and maintain secondary treatment facilities or to complete a section 301(h) permit application. Furthermore, in many cases, they have no existing collection and treatment systems and wastes are

transported from individual homes to tundras or streams which flow into the ocean.

A number of comments were received in response to EPA's request. Most commenters reiterated the unique problems of these communities and suggested that the Agency should either automatically grant section 301(h) modifications to these communities or vastly simplify the application process for them. A few commenters pointed out that section 301(h) contains no basis for excluding these communities from the application process.

In response to these comments, EPA stated in the final regulations that while section 301(h) did not allow either for automatic section 301(h) modifications or categorical exemptions from NPDES permit requirements, the Agency was aware of Congressional concern for the particular problems of these communities. The Clean Water Act, Section 113, 33 U.S.C. 1263, 44 FR 34784, 34792 (June 15, 1979). In section 113, Congress specifically authorized the Agency to enter into agreements with the State of Alaska and to coordinate and cooperate with other Federal agencies in conducting research and demonstration projects leading to the development of a comprehensive program for achieving adequate sanitation services in Native Alaskan Villages.

In consideration of Congress' expressed concerns and EPA's recognition that these native villages have more immediate needs for providing basic health protection, EPA has concluded that these native villages need not apply for a section 301(h) modified permit. The Agency will use discretion in scheduling secondary treatment, with the short term emphasis on meeting immediate public health needs. Attention will be given to examining alternatives to traditional secondary treatment, including individual systems and best practicable wastewater treatment technology including land treatment and disposal of effluents.

Ninety-five Alaskan communities submitted preliminary applications indicating that they intended to seek section 301(h) modified permits. EPA has concluded that seventy-six of these communities are Native Alaskan Villages as defined in the Alaska Native Claims Settlement Act, Pub. L. 92-203, as amended, 43 USC 1601, et seq., as follows:

Alaskan Native Villages Which Submitted Preliminary 301(h) Applications

Akhiok
Akutan
Anaktuvak Pass
Angoon

Atka
Atkasook
Barrow
Bethel
Brevig Mission
Chignik
Chignik Lagoon
Clarks Point
Craig
Deering
Dillingham
Egegik
Ekuk
Ellim
English Bay
False Pass
Gambell
Golovin
Goodnews Bay
Hoonah
Hydaburg
Ivanoff Bay
Kake
Kaktovik
Karluk
Kasaan
King Cove
Kipnuk
Kivalina
Klawock
Kongiganak
Kotzebue
Koyuk
Kwigillingok
Larsen Bay
Little Diomed
Makuryuk
Naknek
Nelson Lagoon
Nikolaki
Nuiqsut
Old Harbor
Ouzinkie
Perryville
Pilot Point
Platinum
Point Hope
Point Lay
Port Graham
Port Heiden
Port Lions
Portage Creek
Quinhagak
St. George
St. Michael
Sand Point
Savoonga
Saxman
Seldovia
Shaktolik
Shishmaref
South Naknek
Stebbins
Teller
Togiak
Toksook Bay
Tununak
Unalakleet
Unalaska
Wainwright
Wales
Yakutat

EPA has made no determination as to whether these villages qualify to apply for a section 301(h) modified permit, should they choose to submit final applications.

By this notice, EPA simply identifies which of the Alaskan section 301(h) preliminary applicants are considered Native Alaskan Villages, clarifies its policy that these native villages need not apply for a section 301(h) modification, and reaffirms the Agency's intention to examine alternative methods of meeting their wastewater treatment needs.

Dated: August 30, 1979

Thomas C. Jorling,

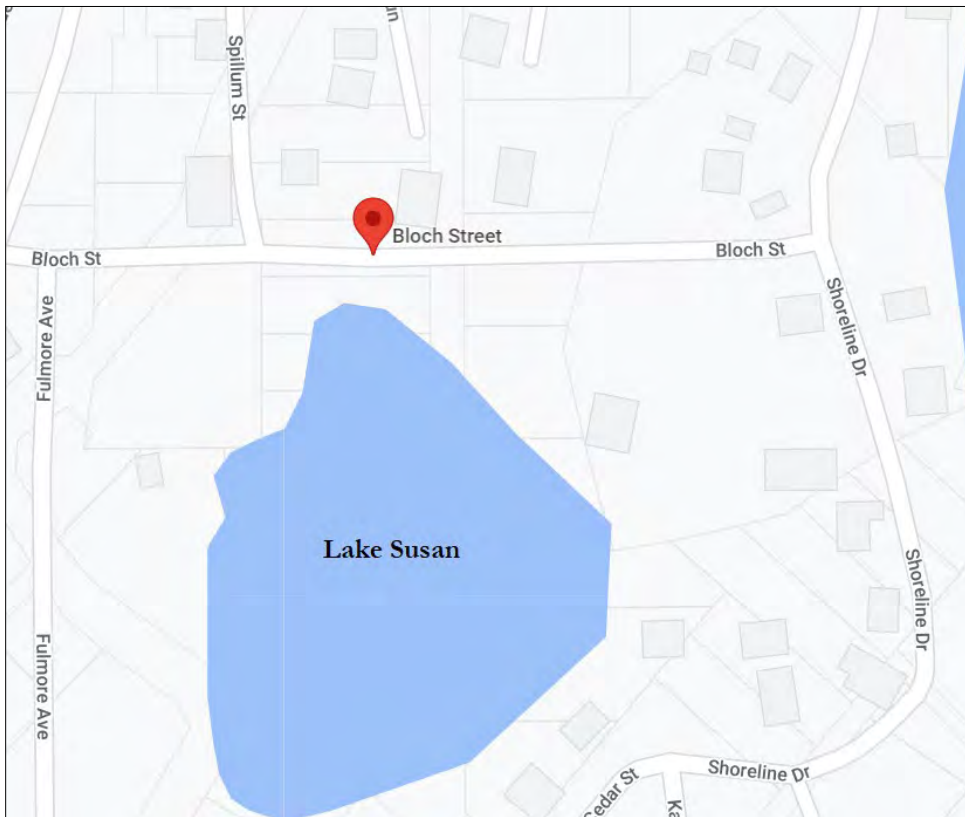
Assistant Administrator for Water and Waste Management.

[FR Doc. 79-27991 Filed 9-5-79; 8:45 a.m.]

BILLING CODE 6540-01-M

Bloch Street Sewer Line Replacement

Project Summary & Benefit: The sewer main running along the City right-of-way known as Bloch Street has the potential to freeze and has caused sewage to back-up into residents' homes in the past. This project will replace the sewer main to an adequate depth while improving the wastewater system to ensure public health and safety is maintained for residents.



Total Project Cost: \$1,243,000

CY23 Federal Share: TBD

FY25 State Share Requested: \$1,243,000

City Share: Unfunded

Schedule:

- Project listed in VSW STARS Database
- Nov. 2023- City requested project be included in VSW planning project for the overall evaluation of the City water and sewer system.
- Nov. 2023 - City requests state share from Alaska Legislature (CAPSIS)
- Once funding is received, City will issue RFP to secure an engineering firm to design replacement. Then an RFP for construction.

Notes: *Federal funding requires 20% match.

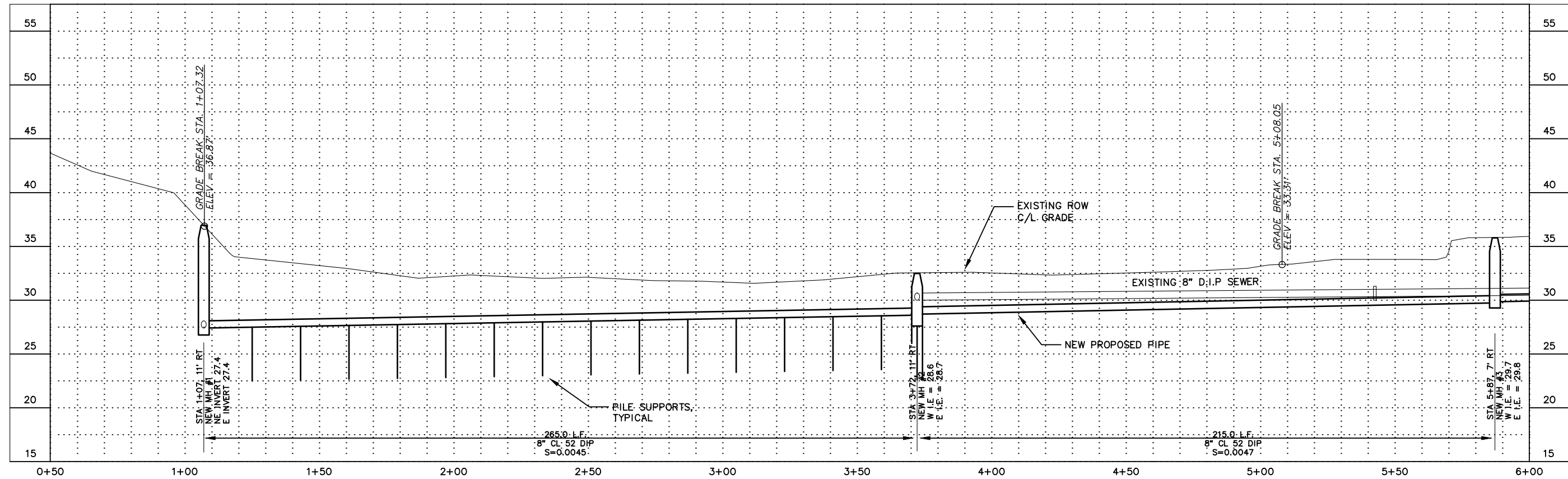
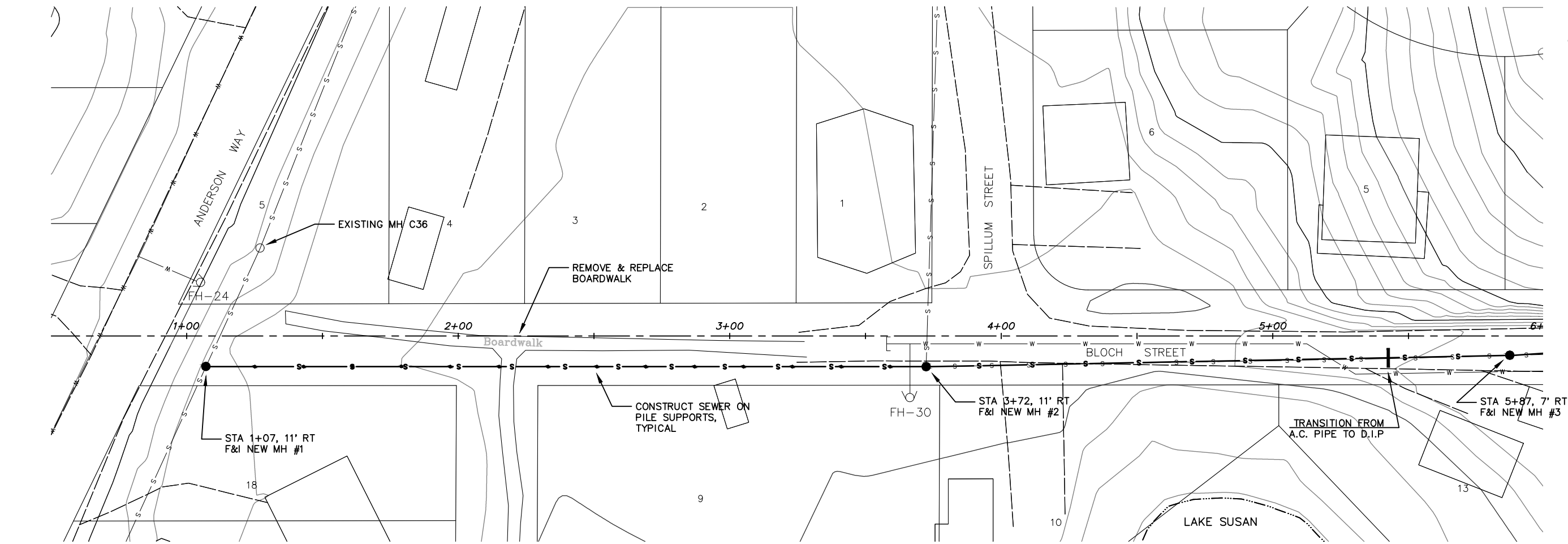
Project Description: The existing sewer line along Bloch Street has caused problems for the residents living in the area, including sewer backups into homes. According to the 2003 City of Seldovia Water and Sewer Feasibility Study prepared by Michael L. Foster and Associates, Inc., *"breaks in sewer lines in March 2003 caused raw sewage to flood a number of homes in the Lake Susan Area. Outdated failing sewer lines need to be replaced to prevent the health hazards associated with human contact with raw sewage."* In one instance starting in 2011 and closing in 2014, a \$95,000 expense was incurred to remedy Bloch St. sewage backup into a resident's home.

The Bloch Street sewer main serves a total of 30 homes. There are several issues associated with the Bloch Street wastewater utility service. The current sewer line is buried at a depth of only 2-3 feet at some locations, which has caused the line to freeze during the winter seasons. The ground conditions around the pipe include muskeg which is believed to have caused the sewer line to sag and develop bellies. These bellies generate pockets of sewage which freezes inside the pipe during winter causing the wastewater to back up into residential homes. In addition, the current grade of the sewer line is 0.0020 ft/ft, which is below the current minimum standard of 0.0040 ft/ft. Due to this shallow grade, even the slightest change in the pipe alignment may cause issues with the flows.

The proposed solution consists of replacing the sewer line along Bloch Street starting from the manhole at Shoreline Drive to the manhole at Spillum Street. This portion of the pipe, approximately 460 feet, will be installed along the same alignment as the existing sewer with slight modification. The existing manholes will be removed and replaced with new manholes. Any muskeg will be removed and replaced with imported gravel. With the steeper grade, the sewer main will no longer be able to connect to the existing sewer at Spillum Street. From the Bloch Street and Spillum Street intersection manhole, a new section of sewer approximately 270 feet will be constructed to connect to the sewer line on Anderson Way. A new saddle type manhole will be installed at Anderson Way in order to connect the new sewer line coming from Bloch Street. Taking into account the unstable ground (muskeg) in this area at the Lake Susan outlet, 6"x20' piles will be driven into the ground every 18 feet to support and prevent the new sewer alignment from sagging. In addition, 3 piles will be installed under the manhole located at the intersection of Bloch Street and Spillum Street. Pile foundations for the sewer system have been used successfully in Seldovia. This design will allow the sewer line to be buried at a deeper depth to provide more cover above the pipe, and to achieve the minimum grade of 0.0040 ft/ft. The grade of the proposed pipe layout ranges from 0.0045-0.0050 ft/ft which is more than double the existing grade of the pipe. The City has full site-control for this project.

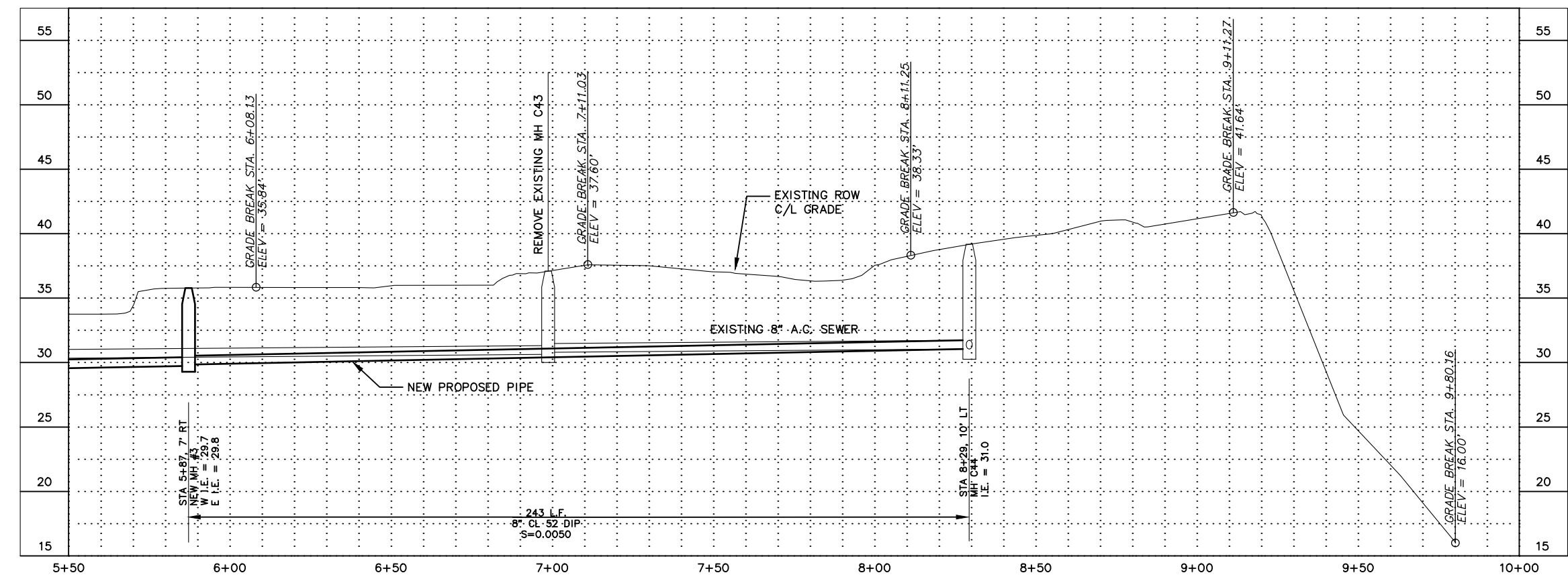
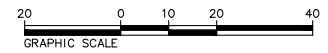
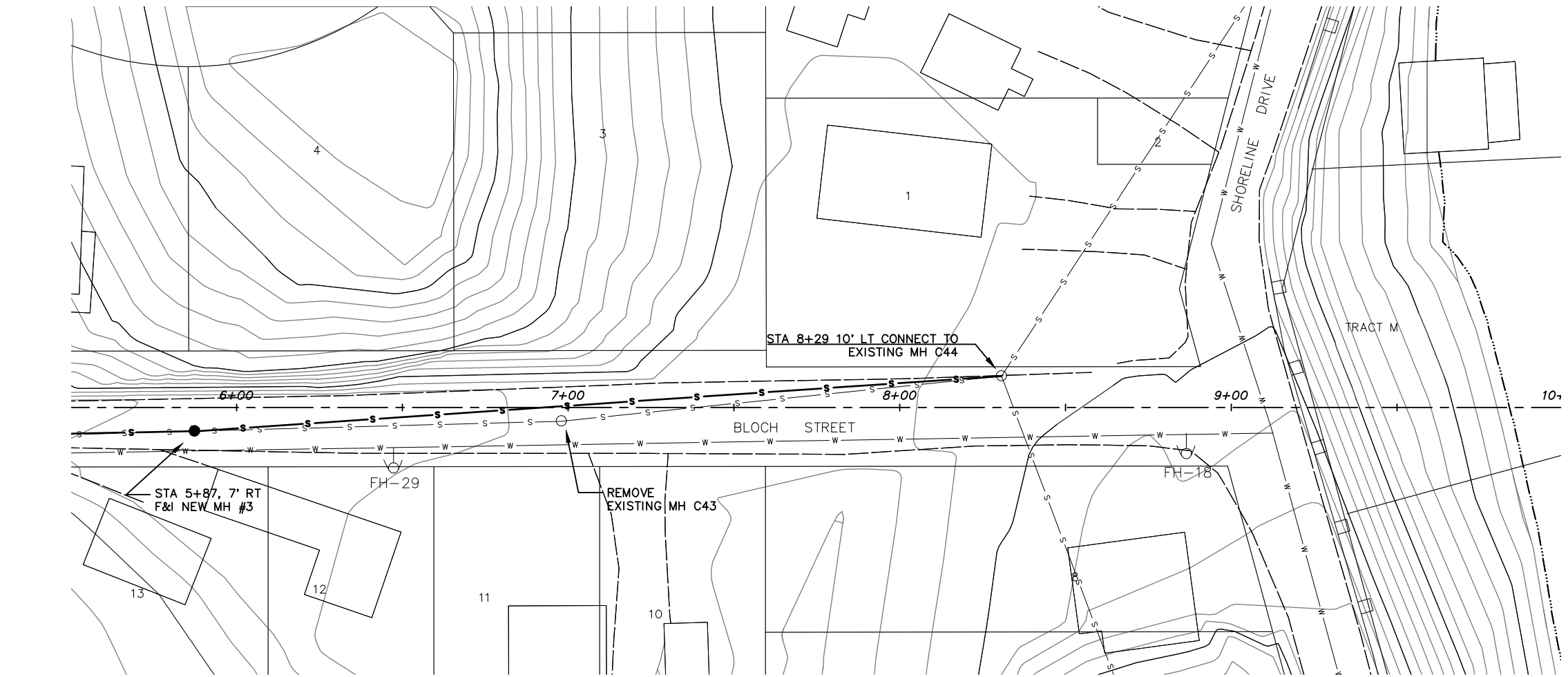
Senator Murkowski secured FY2023 CDS appropriations for this project. Cost estimates to perform the work show the project cost has increased by 21% from \$932,290 to \$1,127,000 in 2023 construction dollars. The original cost of construction estimate was generated using information in the SOA STARS database with inflation applied. The \$1,127,000 estimate in 2023 construction dollars was prepared by CRW Engineering in October 2022. In 2023, the Seldovia City Council requested a technical correction to utilize combine funds from the Raw Water Transmission Line Replacement Project and Bloch Street Sewer Main Replacement Project for the Raw Water Transmission Line Replacement Project. Seeking funding for the Bloch Street Sewer Main Replacement Project remains a #1 priority for the City of Seldovia.

File: J:\Jobsdata\1301.00 Seldovia Water & Sewer Improvements\10 Project Funding\Bloch Street Sewer Upgrade\Bloch Street Plan And Profile.dwg



NO.	REVISION	BY	DATE

File: J:\Jobsdata\01301.00 Seldovia Water & Sewer Improvements\10 Project Funding\Bloch Street Sewer Upgrade\Bloch Street Plan And Profile.dwg



NO.	REVISION	BY	DATE

Plot Date	6/3/13
Designed	CB
Drawn	CB
Approved	PB

Vista Avenue Sewer Line Replacement

Project Summary & Benefit: This project will make improvements to sections of sewer line on Vista Avenue in need of repair as identified in a 2008 inspection report. This capital improvement will prevent inflow and infiltration into the wastewater collection system.

Project Description: A 2008 Water and Sewer Improvements Design Analysis Report identified and evaluated sections of sewer main and manholes on Vista Avenue and identified the following:

Vista Avenue

Four segments of sewer main were cleaned and inspected on Vista Avenue, as described in the following paragraphs..

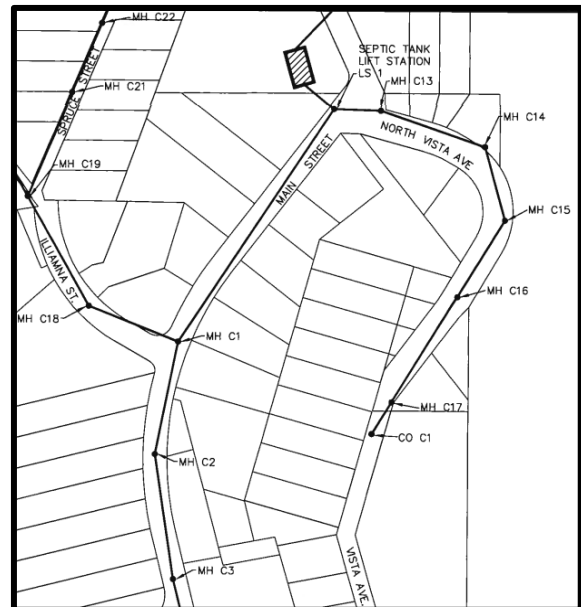
The sewer main from MH C16 to MH C15 is approximately 147 feet and is constructed of 8-inch AC pipe. There are two sewer services connected to the pipe, one of which had a lot of flow at the time of inspection. The pipe has a low belly from 25 feet to 75 feet from MH C16. The pipe has flat grade from 92 feet to 107 feet from MH C16. The top of the pipe is missing at 71 feet from MH C16, although the pipe reinforcement is in place. MH C16 was backed up with sand, gravel, solids, and chunks of concrete at the time of cleaning. Based on the field survey, the sewer main from MH C16 to MH C15 has a calculated slope of 0.0063 ft/ft (minimum slope for 8-inch sewer main is 0.0040 ft/ft).

The sewer main from MH C15 to MH C14 is approximately 135 feet and is constructed of 8-inch AC pipe. There are no services connected to the pipe. The pipe has three circumferential cracks with infiltration. Two pipe joints show infiltration. Other than the cracks and infiltration, the pipe is in good condition.

The sewer main from MH C14 to MH C13 is approximately 185 feet and is constructed of 8-inch AC pipe. There is one service connected to the pipe. There are numerous circumferential cracks in the pipe with infiltration. At 53 feet from MH C14 rocks are pushing into the pipe with infiltration. At 58 feet from MH C14 there is a hole in the pipe with infiltration.

The sewer main from MH C13 to the Septic Tank Lift Station is approximately 77 feet and is constructed of 8-inch AC pipe. There is one service connected to the pipe, which is not sealed to the pipe and has infiltration. Pipe is in good condition with some infiltration at cracked joints.

The sewer manholes on Vista Avenue are structurally sound, with the exception of the cone section on MH C17 which needs to be replaced. Some infiltration was noted at two manholes. Manhole invert channels need to be reconstructed at those manholes with a change in horizontal direction. A number of manhole castings need to be adjusted and resealed to align with the cone. CO C1 has an offset joint that allows dirt to enter the sewer.



Total Project Cost: TBD
 FY25 State Share: TBD
 City Share: Unfunded

Schedule:
 -2023: Project included in FY23 Village Safe Water Planning Project Funding

*Note: A vac truck may be required for repair in order to remove groundwater during the project.

The report proposed the following considerations for future upgrades to this area, specifically:

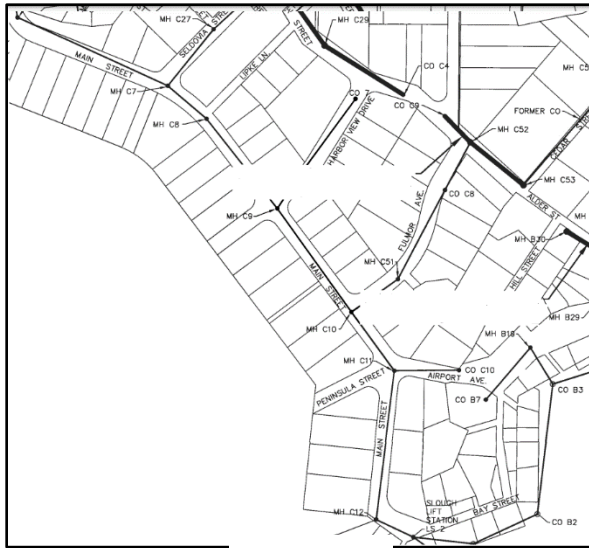
- Vista Avenue – Septic Tank Lift Station to MH C15 (approximately 397 feet; circumferential cracks, holes in pipe, infiltration)
- Vista Avenue – MH C15 to MH C16 (approximately 147 feet; two low bellies, section of top of pipe missing)
- Vista Avenue – MH C16 to CO C1 (approximately 243 feet; infiltration, MH C17 broken cone section, CO C1 offset joint)

These were the findings in 2008, and City staff have noted that flow within this portion of the wastewater collection system appears above what would be typically observed, confirming inflow and infiltration. Additionally, staff have recently observed that while the main itself is not corroded, poor fitment and breaks in the main are the contributing cause of infiltration.

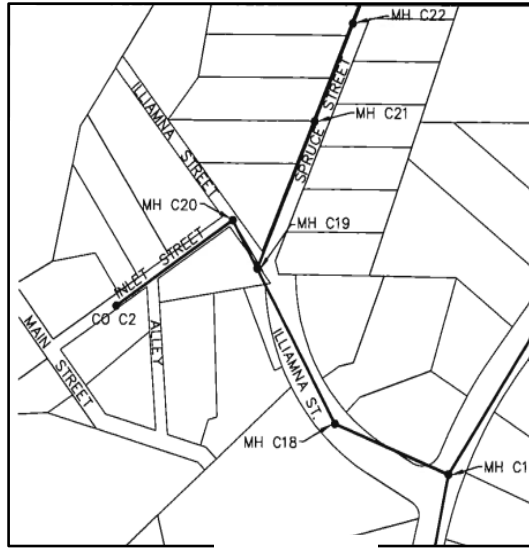
Side note: A difficulty faced when conducting utility maintenance on Vista Avenue concerns the depth of the water and sewer line and placement of other utilities, such as, electric.

Evaluation of Inlet Street, Iliamna Street, and Main Street Sewer Lines

Project Summary & Benefit: This project will evaluate the condition of the sewer lines serving two sections of town: Inlet Street near Church Beach and Main Street, which serves a significant portion of waterfront properties from the Harbor parking lot area to the Historic Boardwalk. Residents in both areas of town have informed the City of difficulties they have experienced concerning the wastewater system such as connecting into the wastewater collection system or wastewater backing up into their homes.



Main Street



Inlet Street

Total Project Cost: TBD

FY25 State Share: TBD

City Share: Unfunded

Schedule:

- 2023: Project included in FY23 Village Safe Water Planning Project Funding
- Contact AKDOT&PF to see if Main St. road construction improvements are planned and if opportunity exists to time work with utility improvements
- In determining broadband opportunities for Seldovia, see if broadband improvements can coincide with utility improvements.

Project Description:

Inlet Street: In a 2003 report, approximately 270 linear feet of Inlet Street’s sewer main was found to have a reverse grade as a result of settling. Reverse grades have and potentially will continue to cause backup sewage in the collection system and thereby increase the risk to Seldovia’s inhabitants for exposures to uncontrolled wastewaters and contaminants. The report recommended that the main be replaced with adequate bedding provided during installation. In 2022, at least one resident served by this portion of the wastewater collection system experienced wastewater backup into their home. Staff investigated the sewer main and did not find any blockages. These situations may be difficult at first to determine the cause, given service connections into the public utility, which are the homeowner’s responsibility, have also been found to be inadequately constructed and can also cause wastewater backup. This is why further evaluation of this portion of the wastewater system is needed.

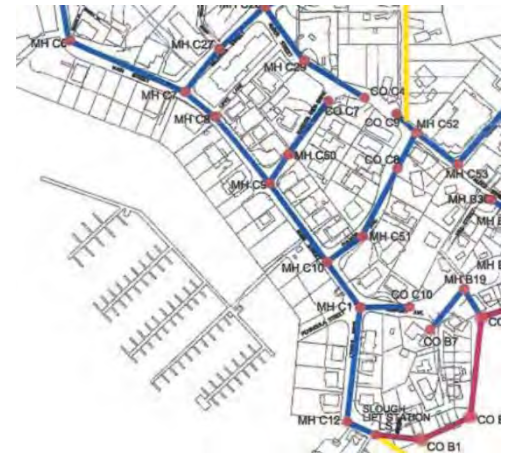
Main Street: In 2009, only water service connections were updated from the intersection of Dock St. and Main St. to the intersection of Peninsula St. and Main St. The wastewater collection system that services this area was not improved. The material that makes up this portion of Seldovia’s wastewater collection system consists of 8” asbestos cement pipe, which can create problems including deterioration and infiltration. It is difficult to work on and maintain the in-place asbestos cement infrastructure as it is delicate and replacement parts are not readily available given it is no longer industry standard to use this material. Per the 2003 MLFA report, it is believed the asbestos cement infrastructure was installed in the 1960s, 1970s, and 1980s. Excessive wastewater flows are believed to be from numerous points in the primarily old asbestos cement piing network.

Recommendations regarding the asbestos cement and Main Street include lining the pipes and/or replacing all the asbestos cement piping. Per the report, replacement “is the surest and most positive way to resolve the pervasive leakage problem. However, it is very costly and would involve road paving repairs on several of the city’s streets including some owned by the Alaska Dept. of Transportation and Public Facilities such as Main Street. The efforts to replace the mains such as on Main Street would likely be a protracted effort administratively.”

Specific recommendations per the 2003 report regarding lining the pipes include:

1. Recommendations have been made in the past to replace the sewer mains or line the existing mains.
2. A recommended liner installation technology is a cured-in-place pipe (CIPP) method that consists of inserting an inverted resin tube inside the pipe which bonds to the pipe interior surface and cures in place. See Appendix E for product data. This technology also applies to service lines four inches in diameter or greater.
3. Because the general structural condition of the sewer mains and services has been observed to be basically sound, it is recommended that the city take the following approach:

Line the existing sewer mains beginning with the larger collection trunk mains and progressing to the feeder mains. Line the Main Street sewer main first then progress to the feed mains to Main Street such as Fulmor Avenue and Seldovia Street.



The blue lines demonstrate where asbestos cement piping is present.

4. Lining Main Street and associated roads such as

Location	From	To	Approx. Length, lf
1) Main Street	Bay Street	Septic Lift Station	3,310
2) Seldovia Street	Main Street	Alder Street	360
Fulmor Avenue	Alder Street	Main Street	500
Harbor View Drive	Alder Street	Main Street	310
Inlet & Illiamna Streets	Inlet Street	Main Street	620
Dock Street	City Dock	Main Street	260
3) English Drive	Alder Street	Main Street	540

If lining the asbestos cement infrastructure on Main Street is not possible, then replacement is recommended per the report especially if road construction on Main Street is planned:

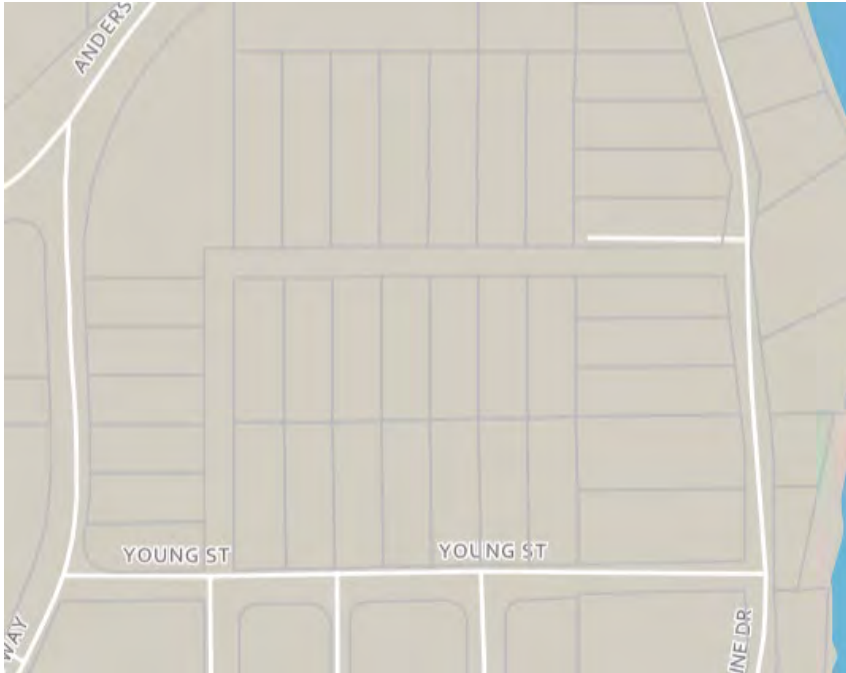
A secondary approach is to replace pipes through opportunity if road reconstruction is to occur in the location of the pipe. Replacement pipes should be double cement lined ductile iron pipe with cathodic protection where strict pipe bedding and backfill techniques cannot be ensured. If proper bedding backfill material and placement can be ensured economically, consideration for heavy walled HDPE piping should be considered.

Given the extensive use of asbestos cement piping for the wastewater collection system serving residents along Main Street, further evaluation is needed.

The City can request Village Safe Water prioritize the planning and completion of Preliminary Engineering Reports for these portions of the wastewater collection system to begin making improvements.

Spillum and Malcom Subdivision Sewer Main Extension

Project Summary & Benefit: This project will evaluate and plan for the installation of a sewer main extension in the Spillum/Malcolm Subdivision to promote and allow for development of housing opportunities in the community.



Total Project Cost: \$1,118,000

FY25 State Share Requested: TBD

City Share: TBD.

Schedule:

-Fall 2026: Consult engineering firm to determine best method for extending sewer service to parcels and secure cost estimate to perform work. Submit project to VSW for incorporation into STARS database.

-Spring 2027: Evaluate incentives for incorporation of ADUs into housing development, partnership potential for lot development with SVT, and if revenue generated from disposal could be enough to cover/offset sewer main construction costs.

Project Description:

The Spillum Malcolm Subdivision is an undeveloped area in the City of Seldovia containing fourteen lots. Lots are undeveloped due to limited access through wetlands and bedrock. Planning efforts should consider water, sewer, and right-of-way access for the area to promote future development.

The Kenai Peninsula 2021-2026 Comprehensive Economic Development Strategy and the City of Seldovia 2014 Comprehensive Plan includes workforce development as a priority and focus, with workforce and human capital including housing, transportation, and childcare. In 2023 the Seldovia City Council identified affordable housing as a priority. The development of water, sewer, and right-of-way access for the large undeveloped Malcolm and Spillum Subdivision will promote and allow for the development of additional housing opportunities in a community limited in size.

Cost estimates for maintenance and/or construction of a sewer main in 2024 were \$1720/foot. The proposed development is approximately 650 feet and projected at \$1,118,000 for cost.

Frank Raby Sewer Main Extension

Project Summary & Benefit: This project will determine the best method for extending sewer service to the City parcels located on Frank Raby Drive to support the future disposal of the lots through a housing development pilot project that requires single or multi-family housing and also incentivizes incorporating accessory dwelling units (ADUs) into the building.



Project Description:

Seldovia Municipal Code requires all owners of real property to connect into the public water and wastewater utility systems. Seldovia City Council has discussed the need for more housing in Seldovia, and the disposal of the two municipal lots on Frank Raby Drive is one way to support this need however the lots do not have access to water or sewer. The first step for this project will require consulting an engineering firm to determine the best method for extending preexisting sewer infrastructure to Frank Raby Drive as well as cost estimates to perform this work (including permitting and design requirements). The City may consider a pilot project that disposes of these lots in a manner that requires single or multi-family housing development and incentivizes incorporating accessory dwelling units (ADUs) to provide long term rental opportunities. The City can determine if the revenue generated from disposal of the lots could be enough to cover or significantly offset the expenses associated with bringing water and sewer to the area. Additionally, the City could also explore how utility extensions in this area could support a future annexation of a subdivision located outside of city limits, as well as, the two additional parcels located on Frank Raby Drive that currently do not have water and sewer utility access.

Total Project Cost: TBD

FY25 State Share Requested: TBD
City Share: TBD. Project assumed to cost greater than \$5,000 in materials and labor.

Schedule:

- Fall 2026: Consult engineering firm to determine best method for extending sewer service to parcels and secure cost estimate to perform work. Submit project to VSW for incorporation into STARS database.
- Spring 2027: Determine fair market value of lots, method of lot disposal that would require/guarantee single or multifamily housing development in consultation with City Attorney, develop incentive for incorporation of ADUs into housing development, partnership potential for lot development with SVT, and if revenue generated from disposal could be enough to cover/offset sewer main extension construction costs.

Collaborative Capital Projects and Partnerships

Commitment to Partnerships

- Increased Digital Equity through Access to Broadband, Priority level 1
- ADA Improvements and Pedestrian Pathway/Sidewalk Expansion Project, Priority level 2
- Ice Skating Rink Recreation Area, Priority level 2
- Public Washeteria, Priority level 3
- Public Art Installation at Central Park and Main Street, Priority level 4

Commitment to Partnering with Seldovia Village Tribe, Seldovia Recreational Service Area, Seldovia Chamber of Commerce, Seldovia Arts Council, City of Homer, Kenai Peninsula Borough, Kenai Peninsula Economic Development District, and State of Alaska

In October 2022, the City of Seldovia and Seldovia Village Tribe established a partnership to work on eight priorities that have a significant impact on the community. These priorities include:

- Robust public safety and first responder capabilities that serve the community on multiple fronts including public health initiatives, emergency medical services, fire suppression, law enforcement, education, training, and wildlife management.
- Repairs to transportation corridors and ports of entry such as State, Borough, and City roads; Seldovia Small Boat Harbor; Jakolof Bay Dock; and the Rocky/Windy River area.
- Reliable and sustainable aviation, passenger, vehicle, and freight transportation including the Alaska Marine Highway System; Seldovia Bay Ferry; Seldovia Airport Airstrip Extension; and Jakolof Bay Dock.
- Communication improvements including fiber backbone installation with middle and last mile delivery of broadband and an expanded cell service coverage area.
- Affordable housing through single family homes and multiplex development.
- Upgrades to water and sewer infrastructure that maintain public health and support community development.
- Economic development initiatives that foster and support local businesses and job creation.; and
- Exploration and implementation of renewable energy systems.

Both organizations are committed to working work together and supporting each other in making progress on these priorities, which will generate and continue to carry positive momentum forward for the Seldovia community.

Also in October 2022, the Seldovia Village Tribe and City of Seldovia entered into a regional partnership with the City of Homer. This partnership will leverage resources to address common issues, encourage communication, and strengthen relationships between all entities' community members, staff, and elected officials.

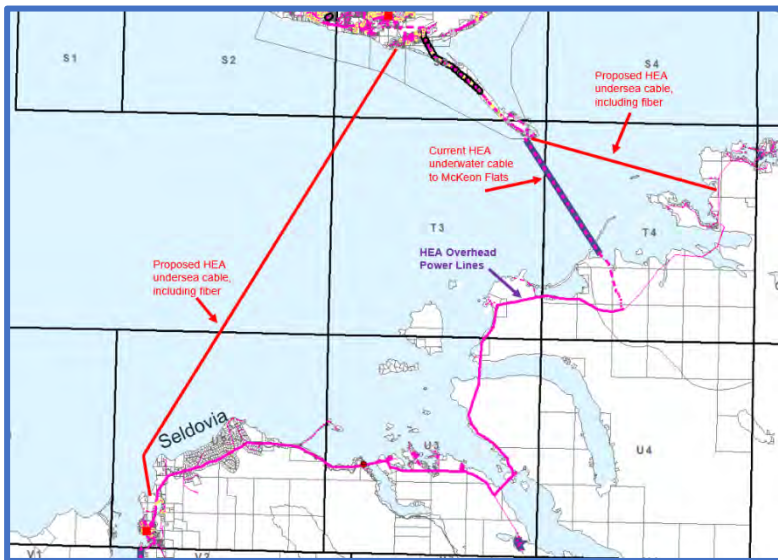
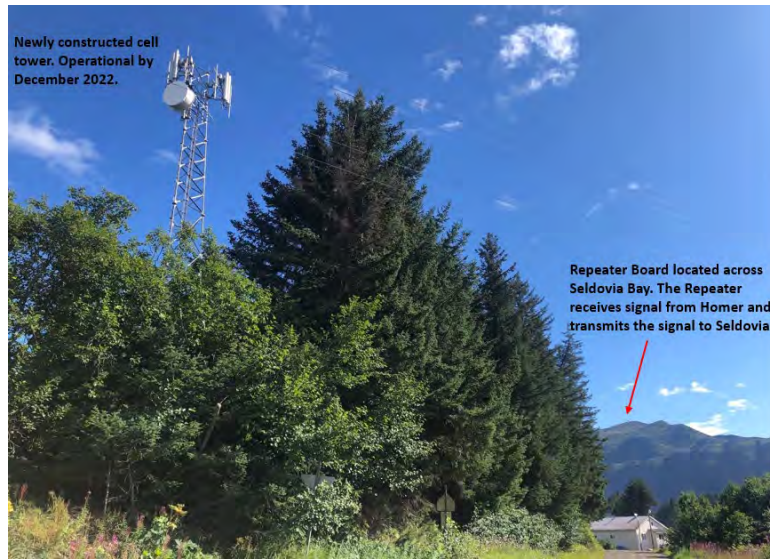
Additionally, the City continues to partner with the Seldovia Recreational Service Area, Seldovia Chamber of Commerce, Seldovia Arts Council, Kenai Peninsula Borough, Kenai Peninsula Borough Economic Development District, and the State of Alaska.

Given the significant opportunities created when organizations come together, the City of Seldovia is committed to proactively and regularly working with our partners to accomplish capital improvement projects, like the projects listed in this document. Collaborative projects designated in the following category are a great example of the vast array of improvements that can be accomplished through partnership and collaboration.

Increased Digital Equity through Access to Broadband

Project Description & Benefit: This project will bring broadband to Seldovia in partnership with the Seldovia Village Tribe and increase communications and digital equity for the community. Currently, telecommunications are provided to Seldovia through (1) bleed-over coverage from Homer primarily for residents outside of City Limits and in the Seldovia Village and (2) coverage for residents in City Limits through the use of a repeater bringing signal from Homer into Seldovia via backhaul. Verizon is one of the main telecommunications providers in Seldovia. To receive cell or internet service, there are three essential pieces of infrastructure needed by Verizon. These include:

- the radio access network (RAN), which connects cell phones, landlines, and internet to the network;
- the core network, which routes the data among sub-networks; and
- backhaul. Verizon’s backhaul is landline fed via two microwave repeaters managed by Alaska Communications (“ACS”): one set up in Homer and the other set up on a mountain ridge across from downtown Seldovia. The repeaters send signal back and forth through the air, hitting the ACS repeater board, and then getting signal from Homer. Previously, the RAN in Seldovia came from a GCI tower that provided 3G service utilizing CDMA (code division multiple access). CDMA is very limited data – there is 3G for voice but the data is mediocre at best in the network. When a Seldovian makes a call on their cell phone, the only time RAN is used is when their phone connects to the nearest tower. Everything else is backhaul that comes from fiber hosted by whomever Verizon can buy it from (ACS, GCI, SpitwSpots). That internet backhaul is needed to transmit packets over the internet, which is sent back out over fiber.



In December 2022 a new tower managed by Vertical Bridge and used by Verizon has a new antenna and RAN that makes 4G possible in Seldovia. The wavelength of this signal travels through the forest better, making coverage go further unless blocked by surrounding mountains or structures. In general, internet signal operates in a similar manner. ACS uses the microwave repeater to bring internet to Seldovia – from their microwave system, its fiber-outed into the community. In 2022, the City of Homer, Seldovia Village Tribe, and City of Seldovia sponsored a joint resolution supporting Homer Electric Association’s (HEA) federal funding request to bring a secondary power cable equipped with fiber to Seldovia. Depending on how much fiber and capacity HEA brings over, this infrastructure upgrade will reduce Seldovia’s dependence on the microwave repeaters, which are subject to adverse weather conditions more than fiber will be. Having access to fiber could potentially even eliminate the need for the microwave repeater, making

the repeater a backup rather than a primary source. Direct fiber connection for Seldovia means internet is received at the speed of light. Broadband improvements will change how Seldovians live, such as: creating e-commerce and tourism opportunities, guaranteed access to telehealth, attending online meetings or college courses seamlessly and without interruption, and more cloud computing rather than reliance on routers, switches, and hard drives. While urban centers have enjoyed the many benefits of fast internet and guaranteed cell service, rural communities like Seldovia have been in the “digital dark” for many years. This project will equal the playing field when it comes to telecommunications infrastructure considered essential for the 21st century citizen. As far as funding goes, there are currently three opportunities available for Seldovia to pursue with assistance from organizations like the Kenai Peninsula Economic Development District (KPEDD): the State of Alaska Office of Broadband’s BEAD funding programs; Middle Mile funding programs; and the DEA program – Digital Equity Act funding program that the State has applied for. **Total Project Cost - FY25 State Share: TBD FY24 Federal Share: TBD FY24 City Share: TBD FY24 SVT Share: TBD**

Priority level: 2

ADA Improvements and Pedestrian Pathway/Sidewalk Expansion Project

Project Description & Benefit: This project will evaluate and plan for the improvement and expansion of pedestrian pathways/sidewalks in collaboration with Alaska Department of Transportation. ADA accessible pathways that encourage pedestrian safety is a high priority for the City of Seldovia. Additionally, the City of Seldovia has a Memorandum of Agreement with the Kenai Peninsula Borough to participate in their Safe Streets for All grant, improved sidewalks and pedestrian pathways is listed as one of Seldovia's project priorities for the grant.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** \$765.00 match in KPBS4A grant program

Priority level: 2

Ice Skating Rink Recreation Area

Project Description & Benefit: In partnership with the Seldovia Recreational Service Area, this project designates the open space beside the value-added building for potential recreation and as an event venue for the Seldovia Arts Council. The City of Seldovia partners with the Seldovia Recreational Service Area to provide recreational opportunities off Kenai Peninsula Borough campus and on public property. Providing a public venue creates and enhances recreational opportunities in Seldovia and supports winter time activities for the community.

Total Project Cost - FY25 State Share: \$0 **FY24 City Share:** \$0

Priority level: 3

Public Washeteria

Project Description & Benefit: This project will evaluate feasibility and community interest in designing a community washeteria. The evaluation will include potential partnerships and collaborative opportunities for the project and may include evaluating potential public land for project utilization. There currently are no public showers or laundry facilities in Seldovia despite a significant number of residents living without running water. The provision of public showers and laundry facilities provides a public health service and potential economic development opportunity.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

Priority level: 4

Public Art Installation at Central Park and Main Street

Project Description & Benefit: This project will install a mural Central Park as well as design and install banners that will be featured on nine light poles lining Main Street. Arts, beautification, and community events enhance Seldovia's small town charm and improve the quality of life for Seldovia's residents. The arts also make the community feel welcoming to visitors and guests who in turn support local businesses and the City. Estimated expenses for this project total \$19,000.

Total Project Cost - FY25 State Share: TBD **FY24 City Share:** Unfunded

City Support for Non-Profit and Governmental Organizations in their Pursuit for Capital Project Grant Funding

Projects proposed by non-profit organizations and other governmental organizations may be included in the Capital Improvement Program (CIP) with City Council approval, but such inclusion does not indicate that the City intends to provide funding for the project. Instead, inclusion in the CIP demonstrates City support for outside projects that provide benefit to the community in the hopes that this support will assist these organizations in their pursuit of attaining grant funding.

For the 2024-2029 CIP, the City of Seldovia received no project submittals. The 2022-2027 CIP included the following project:

- The Susan B. English School Sport Court Upgrades.

The upgrades to the sport court will help nurture the love of being active in Seldovia as it contributes greatly to the physical and mental health of individuals, bonds family and friends, instills pride in heritage and provides economic benefits to Seldovia, not to mention creates a more desirable school for students to enroll and thrive in.

Capital Improvement Projects for Future Consideration

Below lists out other capital improvements identified by Administration or suggested by Seldovia City Council for future consideration.

Water

- Continuation of any remaining water main/connection improvements as listed in the 2003 City of Seldovia Water and Sewer Feasibility Study.
- Parts for the Water Treatment Plant: turbidimeters and recap roof of storage tank.
- Acquiring Water Leak Detection Equipment: it is recommended the City look into a Zcorr unit, Ld-12 subsurface model.
- Development of secondary source for drinking water: 2003 feasibility plan lists Fish Creek as back up source however the City should conduct a study/evaluation of other sources as a back-up water source.
- Exploration of Seldovia Upper Dam Hydropower Feasibility as detailed in the 2003 MLFA City of Seldovia Water and Sewer Feasibility Study.
- Seldovia Upper Dam: all remaining improvements as identified in the 2016 periodic safety inspection and in the upcoming 2022 periodic safety inspection.
- Fire hydrants: improve any hydrants so that they do not need to be drained in winter.
- Digital mapping and database creation of water infrastructure.
- Water Connection Line Improvements: working with homeowners and updating Seldovia Municipal Code so that homeowners do not run treating drinking water to prevent their lines from freezing.
- Annexation: develop vision for the growth of the City of Seldovia and evaluate possible areas for annexation, come up with plan to fund and provide City services.
- Evaluate ability to bring water to in-City lots in the area of B St. and Willards Way. Currently no legal access to vacant lots.
- Disposal of "back sludge" generated at Water Treatment Plant.
- Evaluation of Ground Water Corrosion on Water Distribution System as detailed in 2003 MLFA report.

Wastewater

- Disposal of sludge/effluent in the Seldovia Septic Tank (scheduled to occur through wastewater treatment alternative project)
- Unscreened lift stations: as detailed in the 2003 City of Seldovia Water and Sewer Feasibility Study, install trash screens on all inlets into the lift station wet wells to assist with blockages.
- Continuation of any remaining sewer main/connection improvements as listed in the 2003 City of Seldovia Water and Sewer Feasibility Study: Public Works & Maintenance staff have specifically expressed concern regarding the reverse grade of sewer main on Young Street between Spillum Street and Anderson Way, stating that the City will need to annually jet the line to ensure proper maintenance of sewer mains.
- Digital mapping and database creation of wastewater infrastructure.
- Trash/sump pump acquisition.
- See Snake (with camera) replacement.
- Evaluate ability to bring wastewater to in-City lots in the area of B St. and Willards Way. Currently no legal access to vacant lots.

Marine Transportation

- Municipal Dock: 2020 AMHS Shore Facilities Condition Survey Report & NBI Routine Bridge Report - all remaining improvements identified by the report.
- Harbormaster Office roof repair and paint job.
- Water and electricity upgrades in the Seldovia Small Boat Harbor.
- Evaluation of Layout and Use of Seldovia Harbor Waterfront (ie. location of waste oil containers and kiosks)

Surface Transportation

- Water Treatment Plant Road: ditching, draining, and grading. Parking lot maintenance.
- Evaluation of erosion of the section of road between Bay St. and Peninsula St. (Historic Boardwalk area)
- Evaluation of drainage and ditching on Kachemak Drive.
- Evaluation of drainage and ditching on Frank Raby Drive and Rocky Street.

Public Facilities

- Energy efficiency upgrades to all public facilities: explore possibility for heat pumps or other efficiency upgrades. Complete investment grade energy audit of city buildings.
- Seldovia Wilderness RV Park: consider bringing permanent water infrastructure to the site.
- Gateway Pavilion: Updated signage and reiling of the pavilion.
- Outside Beach Pavilion: upgrades and maintenance, possible site for beautification/community art project.
- Lake Susan Pavilion: upgrades and maintenance, possible site for beautification/community art project. Consider bringing electric to the site.
- City Office administrative offices: modify if the City is able to consolidate administration services into the Multipurpose Building. Can only be done 5 years after CDBG-CV grant closes on MPB.
- RV Park Bathroom
- Preservation of Original Seldovia Historic Cemetery
- Information Technology: upgrade City computers and city council tablets. Develop a cloud-based system for file management.
- Trails: Improve signage and trail maintenance in partnership with SRSA.
- Remove two buried fuel tanks located at the City Office on Dock St. and the former filter building on Water Supply Road.
- Update/touch-up community mural on the City facility leased by the Seldovia Fuel and Lube.

Rolling Stock

- Backhoe: acquisition.
- Super sucker/dry vac with jetter.
- Equipment to maintain snow on Historic Boardwalk: acquisition. Skid Steer with forklift and brush hog.

Plans/Studies

- Develop and Implement a Comprehensive Tourism Strategy per the 2014 Seldovia Comp. Plan.
- Create and Implement a Collaborative Economic Strategy per the 2014 Seldovia Comp. Plan.
- Affordable housing development feasibility study: explore ways the City can leverage its public property for affordable housing development.
- Marine Transportation Study: explore ways the City can increase reliance on public marine transportation that compliments the services provided by the State through AMHS.

City of Seldovia Federal Grant Awards from 2008 - 2023

Large Grants 2008-2021

- Water and Sewer Improvements Project (FAIN 96092601)- 2009-2011
- Seldovia Harbor Improvements Construction Project (FAIN 01430) – 2013-2015
- Coronavirus Aid, relief and Economic Security Act Grant – 2020 – 2022
- FEMA Patient Transport Carrier for Ambulance – Pursued in 2021, Funded

CY2022 Grants-

- SOA American Rescue Plan Act funds – Second tranche received in 2022, used as revenue replacement in FY2023 budget
- Senior Meals Program Grants from the State of Alaska and Kenai Peninsula Borough – Annual, Continuously Funded
- Federal Highway Safety Funds for SPD Laptop – Pursued in 2022, Funded
- RAISE Grant for Jakolof Bay Dock and Seldovia Small Boat Harbor –Pursued in 2022, Not Funded
- FEMA Patient Transport Carrier for Ambulance – Pursued in 2022, Funded
- Alaska Community Foundation Healthy Communities grant for Beautification Efforts- Pursued in 2022, Not Funded
- Alaska Clean Waters Action Grant for stormwater management – Pursued in 2022, Funded
- American Rescue Plan Act Corona Virus Local Fiscal recovery Fund - \$66,382.87

CY2023 Grants-

- Bloch Street Sewer Line Replacement Project- FY2023 Appropriations Bills – Congressionally Directed Spending: \$746,000, funded
- Raw Water Transmission Line Replacement Funding - FY2023 Appropriations Bills – Congressionally Directed Spending: \$414,000, funded
- Material for Resurfacing Roads Funding - FY2023 Appropriations Bills – Congressionally Directed Spending: \$22,000, funded
- RAISE Grant for Jakolof Bay Dock and Seldovia Small Boat Harbor –Pursued in 2023, Not Funded
- Jakolof Bay Dock Replacement Project- Ports and Infrastructure Development (PIDP) Program- \$2,376,646, funded
- Senior Meals Program Grants from the State of Alaska and Kenai Peninsula Borough – Annual, Continuously Funded
- Rural and Tribal Assistance Pilot Program- \$350,000 for Historic Boardwalk Improvements and Waterfront Expansion Project. Pursued, status unknown

City of Seldovia State Grant Awards from 2008 - 2023

Large Grants 2008-2020

- Alaska Byways for Seldovia Gateway Pavilion and Ped. Safety Improvements 2013-2016- \$234,175
- Rasmuson Foundation Grant for an Upgrade in Playground Equipment in Lollipop Park- \$25,000
- Village Safe Water- Water and Sewer Improvements Projects/Water Treatment Plant

CY2021 Grants-

- Senior Meals Program Grants from the State of Alaska and Kenai Peninsula Borough – Annual, Continuously Funded
- Smolt Stocking for Seldovia Slough – State of Alaska Dept. of Commerce, Community & Economic Development – \$25,000; reimbursement grant

CY2022 Grants-

- Community Development Block Grant- Multipurpose Building Improvements Project \$645,568.96
- Senior Meals Program Grants from the State of Alaska and Kenai Peninsula Borough – Annual, Continuously Funded
- Rasmuson Grant for Cemetery Beautification and Maintenance Equipment- \$10,930

CY2023 Grants-

- Village Safe Water- Eight Capital Improvement Planning Projects that will evaluate the dam, reservoir, raw water transmission line, water distribution system, and wastewater collection system- letter of intent to award received, fully funded, \$125,000 provided.
- Village Safe Water- Wastewater Treatment Facility Project- letter of intent to award received, fully funded, no match, \$1,573,000 provided. Future maintenance and operation costs to consider.
- Village Safe Water- Seldovia Slough Sewer Improvement Project- letter of intent to award received, \$3,932,000 provided, a \$495,000 portion of the project is ineligible for funding.
- Alaska State Revolving Fund Program- Seldovia Slough Sewer Improvement Project- \$495,000 microloan with 100% forgiveness. Depending on Best Practice Score, City has requested an off-cycle scoring to allow for a financial report revision and update that includes approved FY23 ending fund balance transfer to the Water and Sewer Funds.
- Alaska State Revolving Fund Program- Seldovia Lift Station Pump Replacement. \$48,125 microloan with proposed loan forgiveness of \$33,688. Administration is exploring potential funding with public works.
- Senior Meals Program Grants from the State of Alaska and Kenai Peninsula Borough – Annual, Continuously Funded
- Healthy & Equitable Communities grant for Senior Meals- \$10,000, funded
- Homer Foundation Grant for Senior Meals- \$5,000, funded
- Seldovia refuse collection vehicle include in Indian Health Services database for comment. Pursued, status unknown
- DHSS- Cybersecurity Risk Assessment- **2022 State and Local Cybersecurity Grant Program (SLCGP)**. Pursued, status unknown
- DHSS- Hazard Mitigation Plan Update. Pursued, status unknown

City of Seldovia State of Alaska Grant Awards 1981 - 2022

Project Name	Grant Number	Grant Type	Grant Status	Award Amount	Amended Amount	Grant Amount	Approved Reimburseme	Remaining Amount
Backhoe Purchase	00/667-9-001	Capital Matching	Closed	50000	0	50000	50000	0
City Buildings Roof & Furnace Repair	01-MG-140	Capital Matching	Closed	26255	0	26255	26255	0
Emergency Vehicle	02-DC-037	Legislative	Closed	35000	0	35000	35000	0
Municipal Building Repair	02-DC-038	Legislative	Closed	25000	0	25000	25000	0
Critical Repair of Municipal Buildings	02-MG-127	Capital Matching	Closed	25000	0	25000	25000	0
Backup Generator	03-DC-084	Legislative	Closed	50000	0	50000	50000	0
Police Vehicle	03-DC-085	Legislative	Closed	35000	0	35000	35000	0
Community Center Roof Repair	03-MG-058	Capital Matching	Closed	25000	0	25000	25000	0
Medical Equipment Purchase	05-DC-095	Legislative	Closed	20000	0	20000	20000	0
Calcium Chloride for Jakalof Road	06-DC-158	Legislative	Closed	7500	0	7500	7500	0
Smolt Stocking	06-DC-159	Legislative	Closed	25000	0	25000	25000	0
Port Economic Development Study	07-DC-258	Legislative	Closed	30000	0	30000	30000	0
Smolt Stocking for Seldovia Slough	07-DC-259	Legislative	Closed	25000	0	25000	25000	0
Boat Haul-out Trailer	09-DC-102	Legislative	Closed	45500	0	45500	45500	0
Smolt Stocking for Seldovia Slough	09-DC-103	Legislative	Closed	25000	0	25000	25000	0
Matching EPA Funds for Water/Sewer Upgrades	09-DC-526	Legislative	Closed	235000	0	235000	235000	0
Russian Orthodox Church Restoration	1/81/36	Legislative	Closed	55900	0	55900	55900	0
Water and Sewer Upgrades	11-DC-349	Legislative	Closed	100000	0	100000	100000	0
City Business Center Environmental	12-DC-425	Legislative	Closed	125000	0	125000	125000	0
Value Added Manufacturing Plant	13-DC-338	Legislative	Closed	330000	0	330000	330000	0
Jakolof Bay and Rocky Road Dusting	13-DM-016	Legislative	Closed	7500	0	7500	7500	0
Manufacturing Plant Construction	13-RR-004	Legislative	Closed	110000	0	110000	110000	0
Fully Equipped Police Vehicle	15-DC-142	Legislative	Closed	45500	0	45500	45500	0
Smolt Stocking for Seldovia Slough	15-DC-143	Legislative	Closed	25000	-25000	0	0	0
Community Assistance Program	18-CAP-138	CAP	Closed	80104	0	80104	80104	0
Shared Fisheries Business Tax Program	18-SF14-06	SFT	Closed	2341.34	0	2341.34	2341.34	0
Community Assistance Program	19-CAP-138	CAP	Closed	79153.8	0	79153.8	79153.8	0
Shared Fisheries Business Tax Program	19-SF14-06	SFT	Closed	1893.15	0	1893.15	1893.15	0
Community Assistance Program	20-CAP-138	CAP	Closed	78115.5	0	78115.5	78115.5	0
Improvements to the City of Seldovia's Multipurpose Building to Prevent and Respond to the Coronavirus Pandemic	20-CDBGCV-01	CDBG-CV	Active	645568.96	0	645568.96	189633.06	455935.9
Coronavirus Relief Fund	20-CRF-184	CRF	Closed	255381.72	0	255381.72	255381.72	0
Shared Fisheries Business Tax Program	20-SF14-06	SFT	Closed	818.55	0	818.55	818.55	0
Community Assistance Program	21-CAP-141	CAP	Closed	75076.03	0	75076.03	75076.03	0
Shared Fisheries Business Tax Program	21-SF14-06	SFT	Closed	509.69	0	509.69	509.69	0
Community Assistance Program	22-CAP-141	CAP	Closed	75873.23	0	75873.23	75873.23	0
Shared Fisheries Business Tax Program	22-SF14-06	SFT	Closed	1221.21	0	1221.21	1221.21	0
Community Assistance Program	23-CAP-138	CAP	Closed	65583.6	0	65583.6	65583.6	0
Community Assistance Program Supplemental Education about and Promotion of Smolt Stocking for Seldovia Slough For FY ending June 30, 2023	23-RR-014	Legislative	Active	25000	0	25000	0	25000
Shared Fisheries Business Tax Program	23-SF14-06	SFT	Active	1237.99	0	1237.99	0	1237.99
Beautification	4/83/484	Legislative	Closed	150000	0	150000	150000	0
Water and Sewer Extension	4/83/514	Legislative	Closed	560000	0	560000	560000	0
Community Water/Sewer Improvement	4/88/609	Legislative	Closed	200000	0	200000	200000	0
Wastewater Treatment Project	4/90/840	Legislative	Closed	95000	0	95000	95000	0
City Wide Drainage Project	4/92/019	Legislative	Closed	125000	0	125000	125000	0
Water/Sewer System Upgrades	4/93/015	Legislative	Closed	250000	0	250000	250000	0
Vessel Sewerage Station Installation	4/94/019	Legislative	Closed	194	0	194	194	0
water and wastewater system design and construction	4/97/002	Legislative	Closed	390701	0	390701	390701	0
certified vessel sewage and cleanup station	4/97/003	Legislative	Closed	99806	0	99806	99806	0
Historical Church Renovation	7/81/126	Legislative	Closed	72000	0	72000	72000	0
Dock Hoist and Equipment	7/88/511	Legislative	Closed	30000	0	30000	30000	0
Boat Haul Out Facility Development	7/93/018	Legislative	Closed	150000	0	150000	150000	0
Erosion Control Study--Amended 85/105	8/82/333	Legislative	Closed	173600	0	173600	173600	0
Streets	8/83/610	Legislative	Closed	250000	0	250000	250000	0
Road Improvements	8/84/772	Legislative	Closed	50000	0	50000	50000	0
Street Improvements	8/84/847	Legislative	Closed	415000	0	415000	415000	0
Unpaved Street Repairs	8/85/81	Legislative	Closed	315000	0	315000	315000	0
Roads and Projects	8/86/311	Legislative	Closed	250000	0	250000	250000	0
Road Grader	8/86/347	Legislative	Closed	16400	0	16400	16400	0
Harbor Fire/Safety Equipment and Construction	8/93/011	Legislative	Closed	46000	0	46000	46000	0
Boat Haul Out Facility Development	8/94/022	Legislative	Closed	200000	0	200000	200000	0
Harbor Office Equipment and Supplies Acquisition	8/94/023	Legislative	Closed	13500	0	13500	13500	0
Purchase Worker's Compensation and Liability Insurance	800251	ARRA	Closed	8534.74	0	8534.74	8534.74	0
Economic & Marketing Feasibility Study	821669	Mini-Grant	Closed	28000	0	28000	28000	0
State Revenue Sharing	830144	SRS	Closed	22091	0	22091	22091	0
Safe Communities	830396	Safe	Closed	8116	0	8116	8116	0
Dock Repairs	9/90/819	Legislative	Closed	75000	0	75000	75000	0
Bay St. & Kachemak St Road Improvements	94/667-8-001	Capital Matching	Closed	25000	0	25000	25000	0
Spruce Street Water/Sewer Extension	95/667-4-001	Capital Matching	Closed	25000	0	25000	25000	0
Purchase of Hydraulic Angle Blade, Hydraulic Angle Broom with Water Sprinkling System, and Hydraulic Hammer	96/667-9-001	Capital Matching	Closed	25000	0	25000	25000	0
Fire Department Utility Truck	97/667-5-001	Capital Matching	Closed	25000	0	25000	25000	0
City Office Repair	98/667-9-001	Capital Matching	Closed	25000	0	25000	25000	0
Coronavirus Local Fiscal Recovery Fund	AK0121	ARRA	Closed	66382.87	178.57	66561.44	66561.44	0
Direct Aid to Fisheries-Impacted Communities	FDA50	FDA	Closed	3824	0	3824	3824	0
Shared Fisheries Business Tax	FLT223	Fish Business	Closed	2922.74	0	2922.74	2922.74	0
Fisheries Landing Tax	FLT224	Fish Landing	Closed	467.85	0	467.85	467.85	0
Safe Communities	SAF666	Safe	Closed	8170	0	8170	8170	0
State Revenue Sharing	SRS418	SRS	Closed	21995	0	21995	21995	0
Temporary Fiscal Relief Grant	TFR136	TFR	Closed	40000	0	40000	40000	0