



Overview of AWWU Construction Projects

Presentation to Assembly Enterprise and Utility Oversight
Committee

August 19, 2021

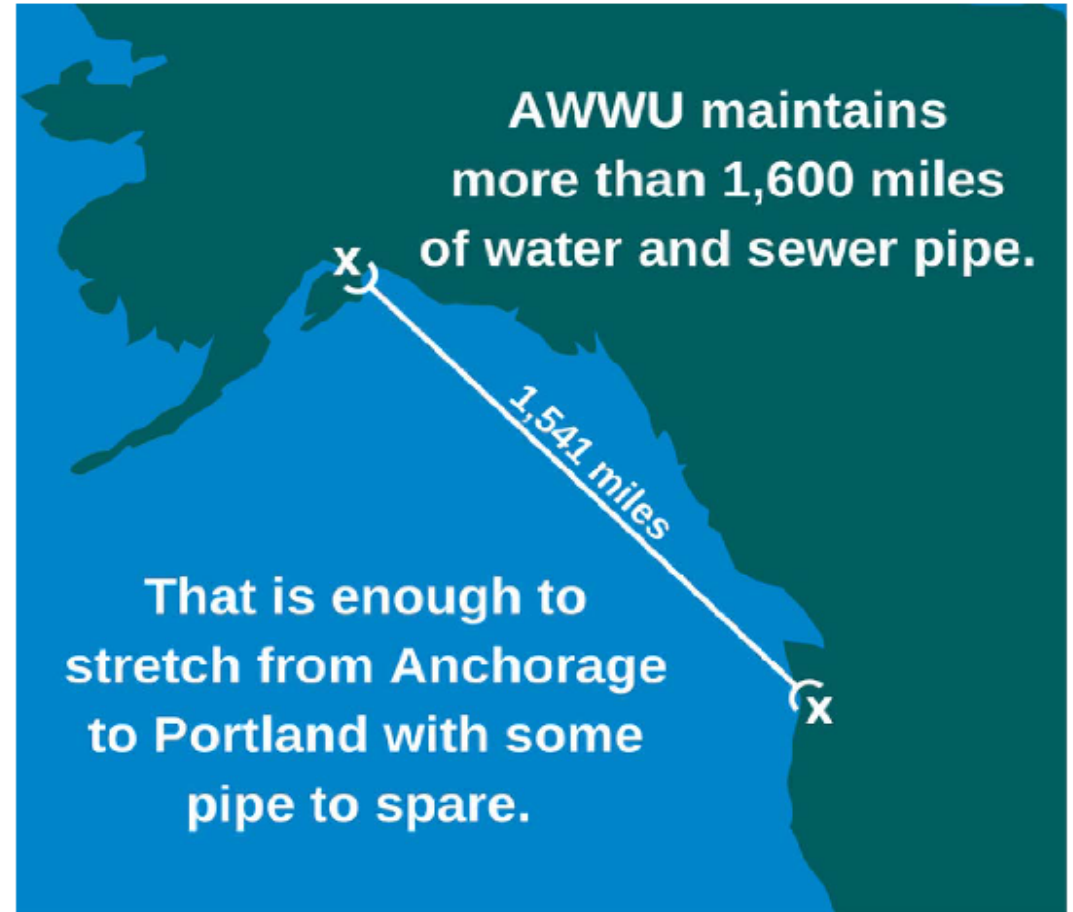
-AWWU Capital Program

- ~\$35,000,000 to \$45,000,000 Each Year
- Goal = Long-Term Infrastructure Reliability & Sustainability

- \$1 Billion NBV, \$10 Billion replacement

- Significant Projects Starting Construction

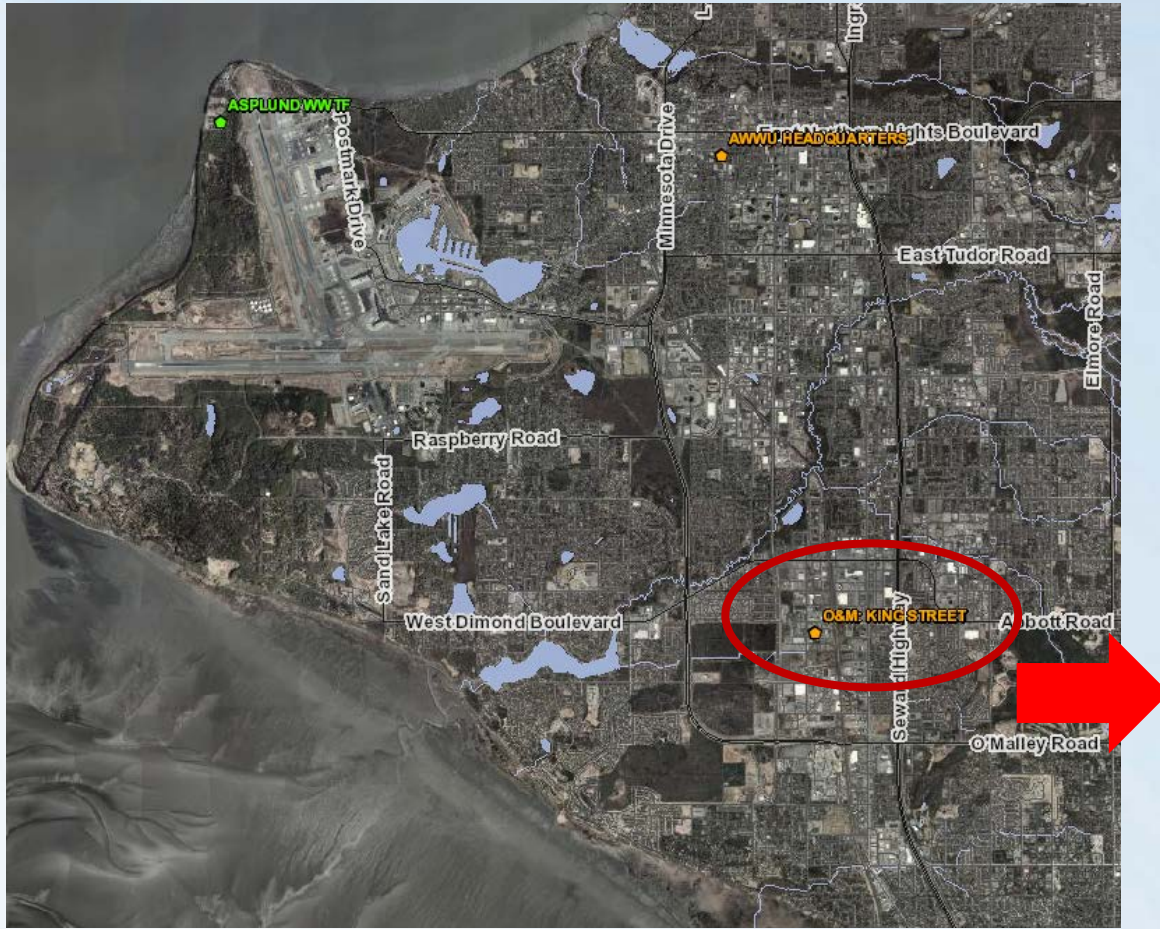
- **King Street Warm Vehicle Storage Building**
- **Pump Station 12 Upgrades**
- **Tudor/Bingo Emergency Water Main Repair**



AWWU By The Numbers ...

| WATER | WASTEWATER |
|---|---|
| <ul style="list-style-type: none">• 2 water treatment plants• 851 miles of water pipe• 11,551 main-line valves• 5,851 fire hydrants• 17 wells• 22 reservoirs | <ul style="list-style-type: none">• 3 wastewater treatment plants• 751 miles of sewer mains• 2 septage receiving stations• 38 wastewater pump/lift stations• More than 17,000 pumps or related motor-driven equipment |

King Street Warm Vehicle Storage Building



King Street Warm Vehicle Storage

Estimated Project Cost
~\$18 Million

- ~\$3M Design
- ~\$15M Construction
- CIB Fund Years
2016/2018/2019/2020/
2021

Community Work Force
Agreement



BETTISWORTH
NORTH

AWR
ENGINEERING

UMIAQ
Design LLC

UMIAQ
Design LLC

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE
STORAGE BUILDING
ANCHORAGE, ALASKA



R&M
ENGINEERING

SHANNON & WILSON

RSA
Engineering, Inc.

KEYSER
ENGINEERING LLC
3030 Seawind Drive
Anchorage, AK 99516
(907) 351-7690 COA#141820

King Street Warm Vehicle Storage

Life/Safety Improvements

- Code Compliance
- Minimizes Incidents Associated with Congestion

Benefits Maintenance Service Levels

- Houses ~\$15M Specialized Equipment
- Cold Weather Equipment Limitations
- Emergency Responsiveness Efficiencies



King Street Warm Vehicle Storage

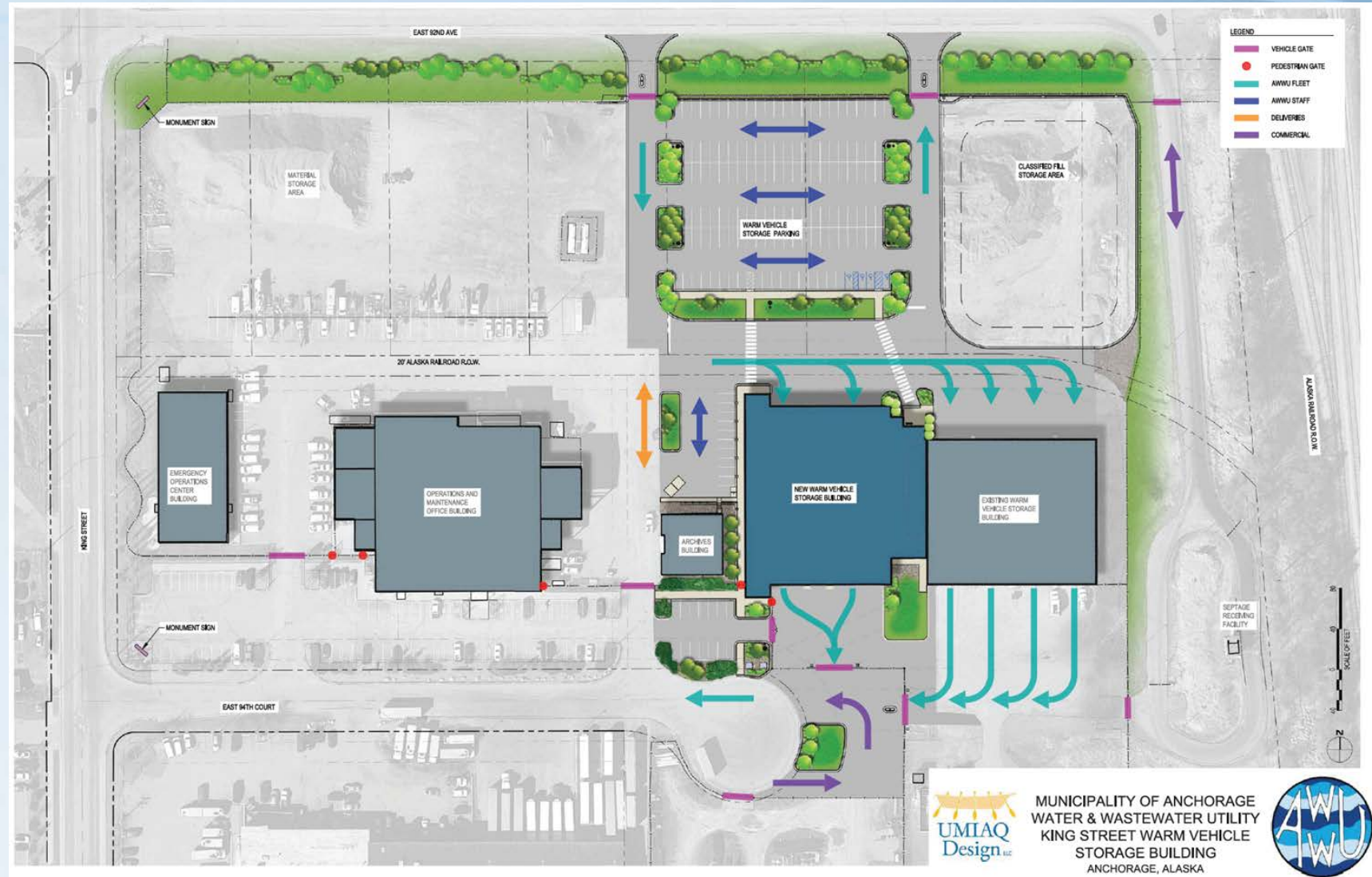
-Coordinated with Other Facility Plan Improvements

- Material Storage
- Main Building Improvements
- Site Specific Improvements

-24-Hour Emergency Response Center for Water & Sewer Systems

-Houses approx. 100 O&M Staff

-Potential Consolidation of AWWU Facilities



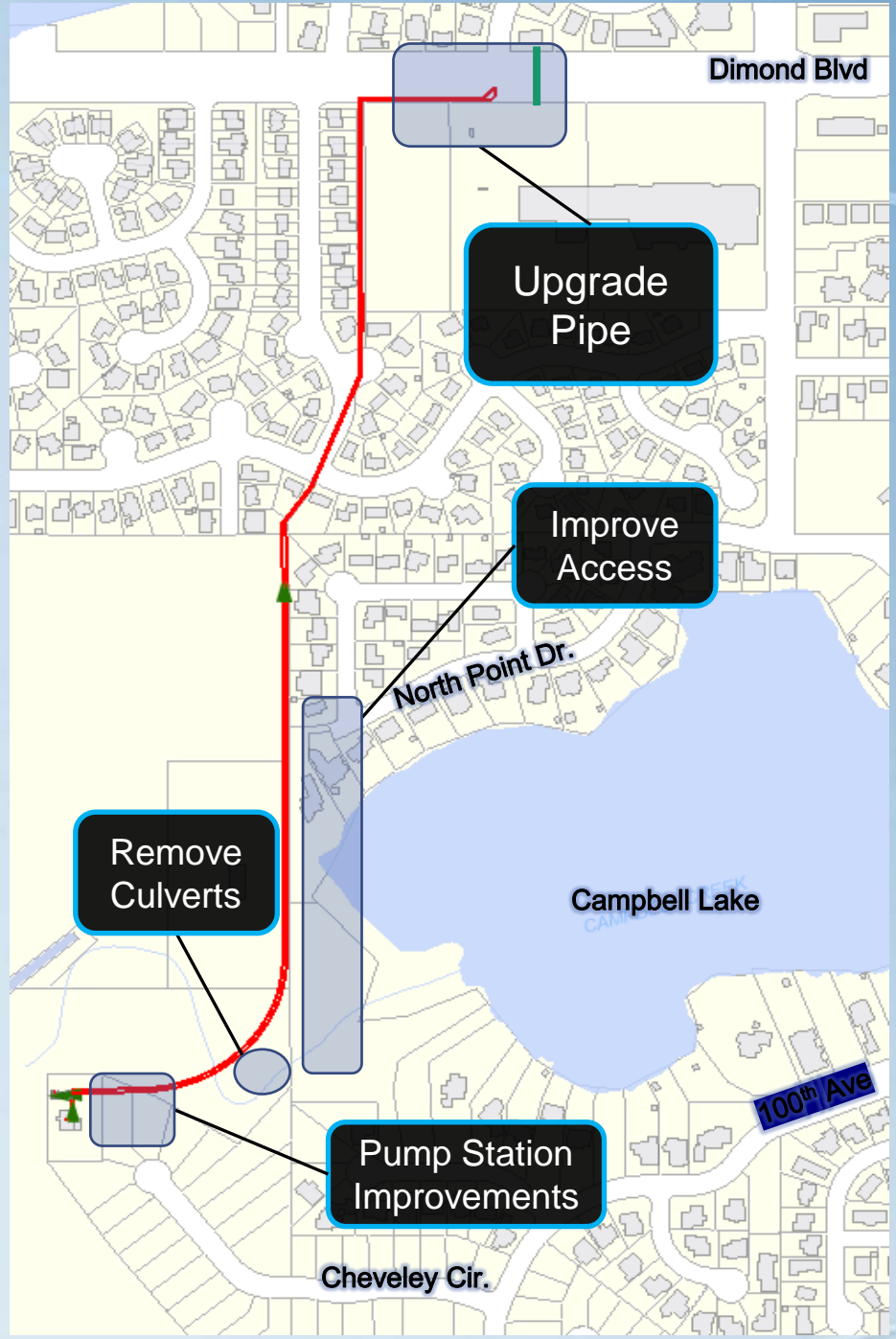
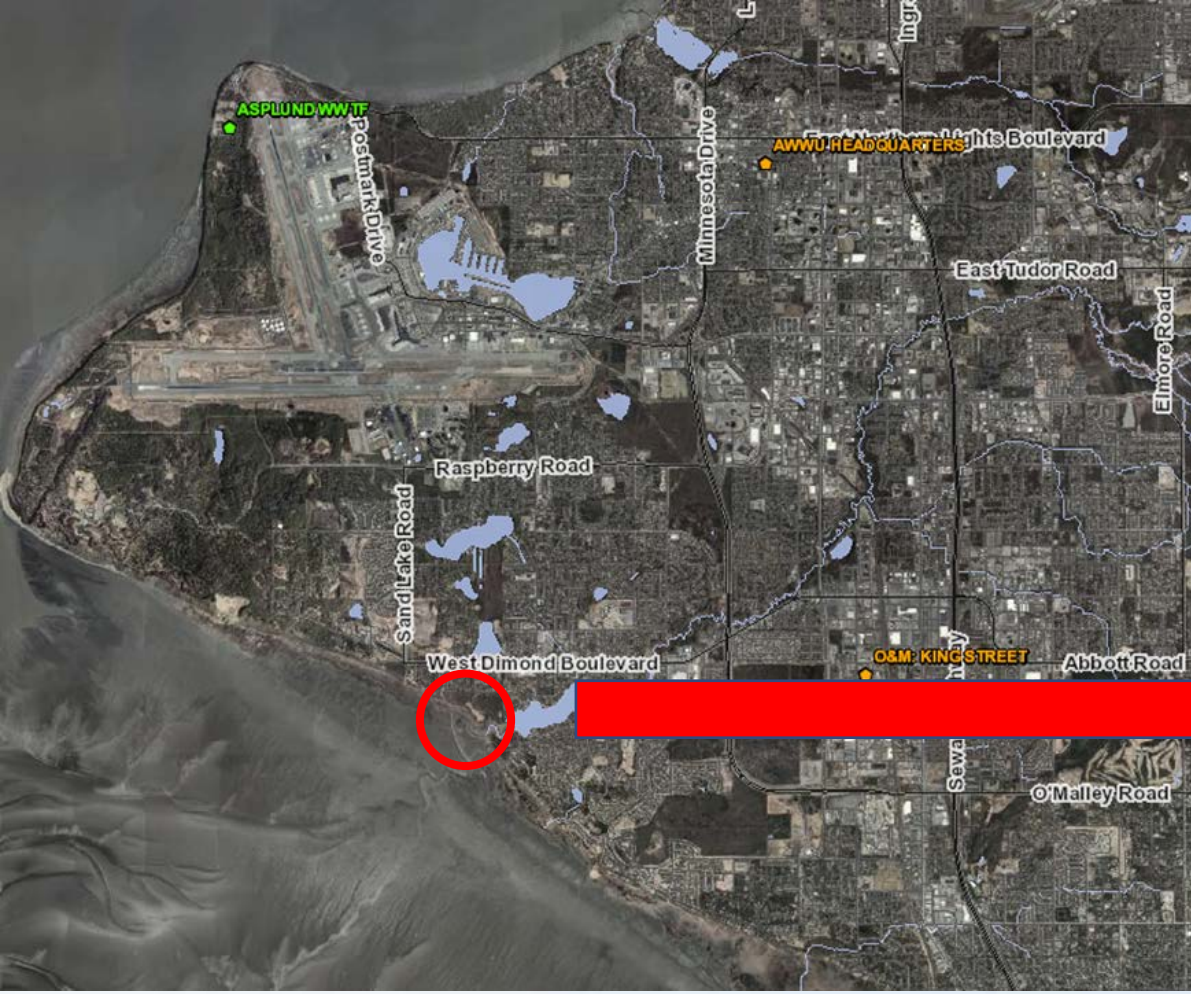
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
KING STREET WARM VEHICLE
STORAGE BUILDING
ANCHORAGE, ALASKA



King Street Warm Vehicle Storage Project Schedule



Pump Station 12 Upgrades



Pump Station 12 Upgrades

Estimated Project Costs ~ \$9 Million

- ~ \$1.5M Design
- ~ \$7.5M Construction
- CIB Fund Years 2016/2018/2019/2020

Continued Operation of Critical Infrastructure

VEI Consultants

SHANNON & WILSON

Fraunher
CORPORATION



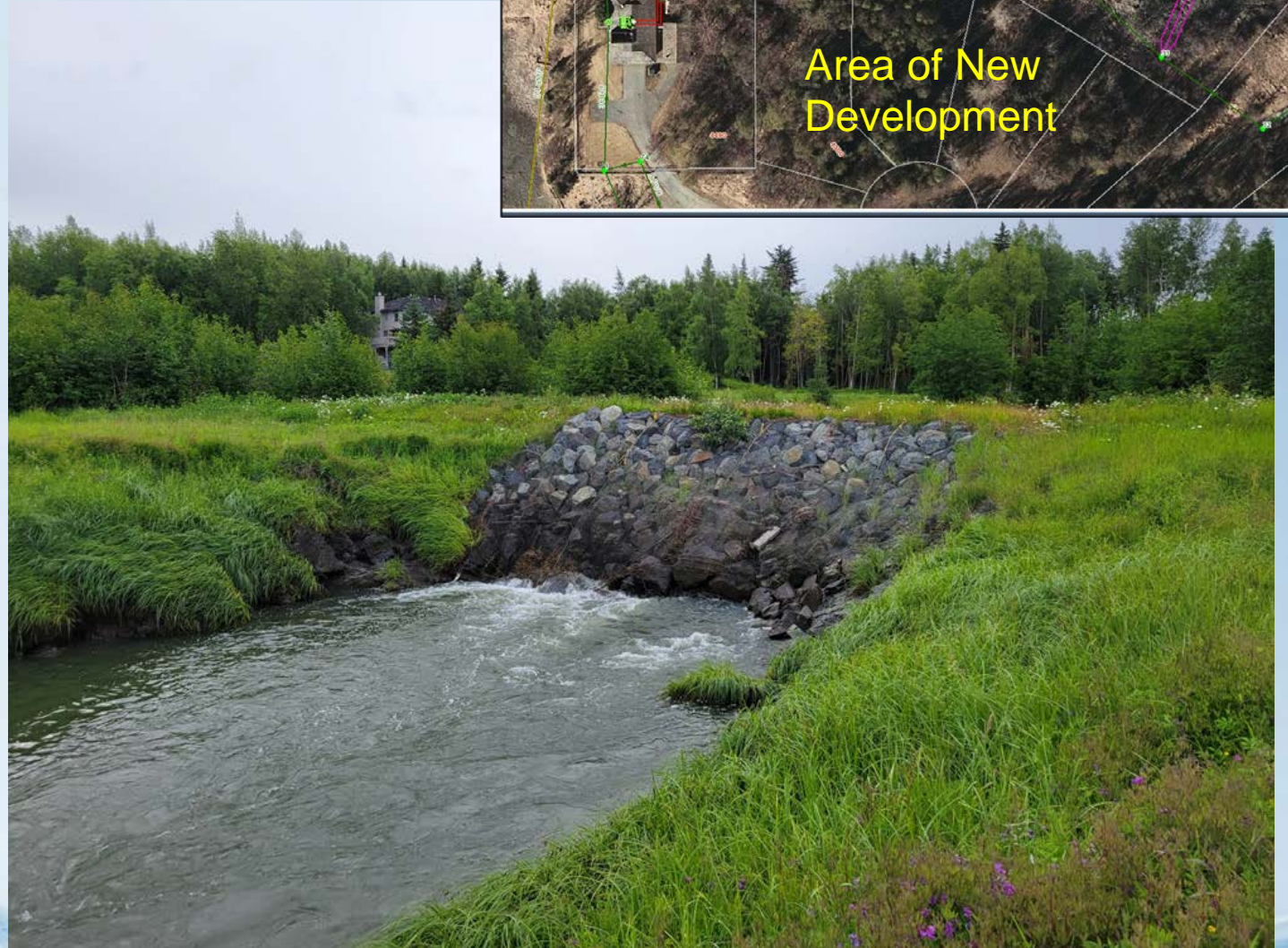
Pump Station 12 Upgrades

Removal of Culverts – Campbell Creek Outfall

- Parks Rec – No Objection
- Campbell Lake HOA – Supportive
- Campbell Lake Estuary Park – No Objection
- ADF&G - Supportive

Community Interest

- Odor
- Appearance



Pump Station 12 Upgrades Project Schedule



Tudor/Bingo Emergency Water Main Repair



Tudor/Bingo Emergency Water Main Repair

Estimated Project Costs ~\$1.5 Million

- ~\$200K Design
- ~\$1.3M Construction
- CIB Fund Years 2020/2021 (ADOT/MOA Emerg Fund Project)

Re-Establish Fire Flow to Bancroft Subdivision

Local Water Service Redundancy

Complexities

- Transmission Main Isolation
- Running Sands
- ~30ft Excavation Depth



Tudor/Bingo Emergency Water Main Repair

Tudor Road Closure

- 8/20/21 to 9/03/21
- Access maintained for business, residents and emergency vehicles
- On-going Coordination with ADOT Overpass Paving Project

Public Coordination

- Project Team Door to Door
- Project Website
- ADN
- Radio
- On-line/511/DOT Navigator
- Message Boards



Tudor/Bingo Emergency Water Main Repair Project Schedule

Mainline Break
January 2020

Design 2020-Spring
2021

Construction Start
August 20, 2021

Tudor Road closure
August 20 to
September 3, 2021

Work outside
Roadway September 3
to September 24, 2021

Project Complete
September 2021



Questions/Comments

