Wastewater Enterprise Capital Improvement Plan & Sewer System Improvement Program

Stephen Robinson, Wastewater Enterprise Capital Program Director, Infrastructure

14th Annual Construction Contractors’ Breakfast

October 2, 2020
Fixing an Airplane While it’s in Flight
Some of Our Priority Challenges

Aging Infrastructure

Seismic Safety

Operational Reliability

Climate Change
Capital Planning:

Adaptively managed for sustainable delivery
### Summary of Revised 10 Year CIP (FY21-30)

**$9B Total Project Budget**

- **Treasure Island**, $202
- **Facilities & Infrastructure**, $460
- **R&R - Treatment**, $319
- **R&R - Collection**, $1,657
- **Program Management**, $412
- **Stormwater Management**, $309
- **Flood Resilence**, $859
- **Collection**, $1,254
- **Treatment**, $3,567

#### Summary of budget revisions presented to the Commission on 7/14/20
SSIP Status (as of June 2020)

Completed $324M
(32 Projects)

Close-out $59M
(6 Projects)

Planning $26M
(7 Projects)

Design $299M
(7 Projects)

Bid & Award $188M
(5 Projects)

Construction $2,082M
(17 Projects)

Phase 1 $2.978B
(70 Projects)
SSIP Phase 1 Progress Made Since Last Year

March 2019

- Planning - Design: 10
- Bid & Award - Construction: 20
- Close-out - Completion: 30

31% Complete

June 2020

- Planning - Design: 10
- Bid & Award - Construction: 22
- Close-out - Completion: 38

46% Complete
Supporting our community – especially in the face of COVID

- Virtual Internships: Project Pull and Cityworks
- Virtual Teacher Externship for SFUSD teachers
- District 10 Small Business Resiliency Relief
- Grocery and Meal Delivery by SFPUC firms
- Headworks Construction Fence Canvas reflecting Bayview History
SSIP Local Hiring (as of June 30, 2020)

Apprenticeships (Entry-level) Provided by SSIP

- 238 SF apprentices have worked 63% of hours (as compared to 50% requirement) and earned $2.6M in wages

SSIP Local Hire Ordinance Achievement

- 20-30% Local Hire Percentage Requirements
- 33% Actual SSIP Local Hire Percentage Achieved

- 808 San Francisco residents have earned $13.1M in wages on SSIP projects working 279K hours
Southeast Drone Footage
WW-701 Southeast Bay Outfall Islais Creek Crossing Replacement

Total Project Cost in CIP: $67.6M

- Pipeline replacement and restoration of access manholes within Islais Creek
- Improvements to flow velocity
- Piping isolation improvements to the Booster Pump Station

Project Timeline:

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DB - 132 New Treasure Island Wastewater Treatment Plant

Total Project Cost in CIP: $202M

- Design and construct new wastewater treatment plant and recycled water facility
- New treatment plant will include:
  - Influent screening
  - Combined primary/secondary treatment
  - Aerobic sludge digestion, sludge dewatering and truck load-out
  - Disinfection, odor control and tertiary treatment

Project Timeline:

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WW-712 New Montgomery, Jessie, Mission, & Minna St. 
Brick Sewer Rehabilitation

Total Project Cost in CIP: $10.4M

- Rehabilitate 3,330 LF of main sewer using trenchless method at:
  - Mission, between 2\textsuperscript{nd} and 3\textsuperscript{rd} Street
  - New Montgomery, between Market and Howard Street
  - Jessie, between 2\textsuperscript{nd} and 3\textsuperscript{rd} Street
  - Minna, between 2\textsuperscript{nd} and 3\textsuperscript{rd} Street

Project Timeline:

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New Montgomery Street (near Mission Street Intersection)
Folsom Area Stormwater Improvements

Total Project Cost in CIP: $290M

The scope of work for this project will be divided into two construction contracts:

• Upstream Pipe Component - 12,500 LF of cut-and-cover sewer work to upsize existing sewer pipes
• Tunnel Component – Construct stormwater tunnel to convey flows from upstream to Mission Creek Channel

Upstream Components Project Timeline:

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Tunnel Project Timeline:

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# Upcoming Construction Contracts

<table>
<thead>
<tr>
<th>SSIP CONTRACTS</th>
<th>CONTRACT TITLE</th>
<th>EST. VALUE</th>
<th>ANTICIPATED AD DATE</th>
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</thead>
<tbody>
<tr>
<td>WW-648</td>
<td>Oceanside Water Pollution Control Plant Building 042 Primary Clarifier Improvements</td>
<td>$6M</td>
<td>November 2020</td>
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<tr>
<td>WW-685R</td>
<td>North Shore Pump Station Wet Weather Improvements</td>
<td>$30.3M</td>
<td>November 2020</td>
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<tr>
<td>WW-711</td>
<td>Wawona St and 15th Ave Stormwater Detention Project</td>
<td>$24.6M</td>
<td>December 2020</td>
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<td>WW-712</td>
<td>New Montgomery, Mission, Jessie &amp; Minna Streets Brick Sewer Rehabilitation</td>
<td>$7.8M</td>
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<tr>
<td>WW-669</td>
<td>Oceanside Water Pollution Control Plant Building 011 Grit Classifier &amp; Primary Influent Slide Gate System Improvements</td>
<td>$6M</td>
<td>February 2021</td>
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<thead>
<tr>
<th>NON-SSIP CONTRACTS</th>
<th>CONTRACT TITLE</th>
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<tbody>
<tr>
<td>WW-698</td>
<td>As-Needed Spot Sewer Replacement #41</td>
<td>$9.1M</td>
<td>October 2020</td>
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<tr>
<td>WW-701</td>
<td>Southeast Bay Outfall Islais Creek Crossing Replacement</td>
<td>TBD</td>
<td>Summer 2021</td>
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<tr>
<td>DB-132</td>
<td>Request for Proposal (RFP) for New Treasure Island Wastewater Treatment Plant</td>
<td>$100M-$125M</td>
<td>November 2020</td>
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</table>

Project Phases: Planning - Bid & Award, Construction, Close-out

SFWATER.ORG/ACP
For More Information…

sfwater.org/SSIP/reports

sfwater.org/SSIP/jobsreport

sfwater.org/sepconstruction

sfwater.org/acp
THANK YOU.
# Upcoming SSIP & WWE Contracts

<table>
<thead>
<tr>
<th>CONTRACT</th>
<th>VALUE ($ MILLIONS)</th>
<th>ANTICIPATED ADVERTISEMENT</th>
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<tbody>
<tr>
<td>WW-685, North Shore Pump Station Wet Weather Improvements</td>
<td>30</td>
<td>Summer 2019</td>
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<tr>
<td>WW-687, Force Main Rehabilitation at Embarcadero and Jackson Street</td>
<td>5.5</td>
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<td>WW-648, OSP Primary Clarifier Improvements</td>
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<td>Summer 2019</td>
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<tr>
<td>WW-696, Cargo Way Sewer Box Odor Reduction</td>
<td>3</td>
<td>Summer 2019</td>
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<tr>
<td>WW-669, OSP Grit Classifier and Primary Influent Slide Gate System Improvements</td>
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<td>Summer 2019</td>
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<tr>
<td>TBD, CSD Structure Backflow Prevention at Jackson and Griffith Streets</td>
<td>2.3</td>
<td>Fall 2019</td>
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<tr>
<td>TBD, Southeast Bay Outfall Islais Creek Crossing Replacement</td>
<td>34</td>
<td>Fall 2019</td>
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<tr>
<td>TBD, Better Market Street Sewer Improvements – Phase I</td>
<td>5.5</td>
<td>Winter 2019-20</td>
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SFWATER.ORG/ACP
Southeast Community Center 1550 Evans

Project Cost: $109.5M

Progress and Status:
- Completed Bid & Award
- Foundations and underground utilities complete
- India Basin sign demolition and removal
- Reinforcement steel arrival in August
- Slab pours commenced in August

Project Schedule:

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Ocean Beach Climate Change Adaptation Project

Project Cost: $170M

Milestones:

- **2018/22** Planning, Environmental
- **2021** Complete Design, CM/GC
  - Contract, CM Contract
- **2023** Start Construction
- **2026** Substantial Completion Gran Opening
- **2027** Final Completion, Closeout

Project Timeline:

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<th>Year</th>
<th>Planning through Bid &amp; Award</th>
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Sewer System Improvement Program

Grey.

- System and Seismic Reliability & Redundancy

Green.

- Innovative Stormwater Management Solutions

Clean.

- Protecting Public Health & the Environment
SSIP Phase 1 Projects in Your Neighborhood

- Treatment Plants
- Green Infrastructure & Stormwater Management Projects
- Large Sewers, Tunnels, and Odor Control
- Pump Stations and Force Main Improvements
- Flood Resilience Projects
- Combined Sewer Discharge Structures & Transport/Storage Boxes
- Interdepartmental Projects
Community Benefits & Economic Inclusion

Priority Areas

• Workforce Development
  • Exceeding Local Hire Requirements
  • SSIP CityWorks Internship
• Education
• Arts
• Land Use & Environmental Justice
  • EJ Analysis for Biosolids project
• Small Business Opportunities
  • Contractors Assistance Center

Pre-apprenticeship Training

SSIP CityWorks 2018 Co-hort

Update
Non-SSIP Projects
as of WWE Quarterly Report Apr – Jun 2020

Update this based on June quarterly exec summary, add a column for contract number, value and advertisement – only show upcoming construction contracts

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<tr>
<th>TREATMENT FACILITIES</th>
<th>2019</th>
<th>2020</th>
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<td>SEP Biosolids Digester Facilities Project (BDFP)</td>
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<td>SEP New Headworks Facility Project</td>
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<td>SEP Facility-wide Distributed Control System (DCS) Upgrades</td>
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<td>SEP Existing Digester Gas Handling Improvements</td>
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Project Phases:  
- Planning - Bid & Award  
- Construction  
- Close-out

SFWATER.ORG/ACP
Southeast Area Upgrades $2.134B

Facility-wide Projects
- Seismic Reliability and Condition Assessment Improvements
- Distributed Control System (DCS) Upgrades

- Oxygen Generation Plant
- Power Feed and Primary Switchgear Upgrades
- Primary/Secondary Clarifier Upgrades
- Building 521/522 and Disinfection Upgrades
- New Headworks Facility Project
- Existing Digester Gas Handling Improvements
- Existing Digester Roof Repairs
- *Land Reuse of 1801 Jerrold Avenue (Asphalt Plant)
- *Land Reuse of 1800 Jerrold Avenue (Central Shops)
1550 timelapse?

Or timelapse???