

# Capital Improvement Projects

Fourth Quarter Report 2018



# Port of Seattle Capital Improvement Project Report Fourth Quarter 2018

## Introduction

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The Port of Seattle is a municipal corporation chartered by the State of Washington with the mission to be an economic engine for the Puget Sound region and the State. A primary activity of the Port is to create capital assets that allow the efficient flow of goods and people into and out of the area. The intent of this report is to provide the public with high level information on the status of the Port's capital projects.

## Background

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During 2018, the Port plans to invest \$895,100,000 to expand and upgrade the infrastructure that supports marine and aviation commerce. Funding for the Port comes mainly from the users of the facilities, including shipping companies, airlines, rental car companies, concessionaires and public parking. About 2 percent of the Port's capital budget comes from a tax levy on property in King County. The Tax Levy funds are used selectively for investments in transportation facilities, real estate capital projects and environmental and noise mitigation projects.

The Port is dedicated to sound stewardship of the resources its customers and the public entrust to it. This means accomplishing its mission efficiently, effectively and economically, and making its actions transparent to its business partners and the general public.

## About the Report

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The report will provide general information on the project description, status, significant developments, schedule, budget, change orders, risks, budget transfers, and cost growth of construction if it exceeds 10% of contract. The report may include graphics that report project costs compared to authorization, construction costs (including change orders (CO)) compared to the construction contract, location maps, and photographs. The Port implements a number of different types of projects and not all information may be relevant to a specific project; as such, the reports may vary in detail and content. Project types may range from construction, to noise mitigation, to technology.

The project description includes the project title, project number (Capital Improvement Project (CIP)), project phase, and estimated completion date (substantial completion). This section also includes "Project Status" illustrating at a glance if the project is on schedule, and within budget, and the date Construction authorization received.

- **Significant Developments** covers items such as accomplishments, significant events or milestones, contract advertisements and awards, upcoming activities, and environmental issues, and budget transfers between authorized projects during the reporting period.
- **Schedule** includes information on the project schedule, the total schedule variance and variance since the last report, contract extensions, and information on critical dates.
- **Budget** addresses the total project budget and includes information on the overall budget status, recent Commission authorizations, projected overruns or savings, and scope changes.
- **Change Orders** provides information on current quarter's COs and total project Cos, including justification for CO's for the reporting period and information on any CO over \$200,000 or 10% of the contract value.
- **Cost Growth of Construction** provides a brief description of any project with CO exceeding 10 percent.
- **Risks** describe any significant risk of delay, any significant risk to cost, or any significant CO.

Additional information may include graphics indicating budget, construction costs, location, and photographs. These reports intend to meet the reporting requirements of Port of Seattle General Delegation of Authority and the Commission motion on January 8, 2008 regarding "Reports on Major Capital Projects."

## Additional Information

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For additional information, please visit the [Contact Us](#) page on the Port of Seattle web site to ask a question, make a comment or request a copy of the State Audit Reports Response and Action Plan.

# Aviation

CIP Number	Project Title	Page	Variance	
			Schedule	Budget
C101107	160th GT Lot	6	●	●
C102112	Hennelly Service Tunnel Renewal Rep	7	●	●
C102162	Air Cargo Road Safety Improvements	8	Design Phase	
C800061	Main Terminal South Low Voltage	9	Design Phase	
C800335	EGSE Electrical Charging Stations	10	●	●
C800483	Airfield Pavement Program	11	Design Phase	
C800493	Emergency Back-Up Water Supply	12	Design Phase	
C800556	NorthSTAR North Satellite Lobbies	13	●	●
C800583	International Arrivals Facility	14	●	●
C800585	Wi-Fi Enhancement for Ramp and Terminal	15	●	●
C800605	Security Exit Lane Breach Control Phase II	16	Design Phase	
C800612	Checked Baggage Recap/Optimization	17	●	●
C800638	Dining and Retail Infrastructure Modernization	18	●	●
C800642	CCTV Camera Data Improvements	19	●	●
C800655	IWS Segregation Improvements	20	Design Phase	
C800658	Mechanical Energy Conservation	21	●	●
C800695	C3 Holdroom Expansion	22	Cancelled	
C800697	Concourse B, C and D Restroom Upgrades	23	●	●
C800699	Electric Utility SCADA Utility	24	Design Phase	
C800702	2015-2016 C Concourse Roof Repl	25	●	●
C800717	N. Terminal Utilities Upgrade	26	Design Phase	
C800722	CTE HVAC	27	●	●
C800724	Concourse C New Power Center	28	Design Phase	
C800761	Concourse B Ramp Level Holdroom	29	●	●
C800762	Telecommunications Meet Me Room	30	Design Phase	
C800769	Concourse D Hardstand Terminal	31	●	●
C800779	Safedock Upgrade and Expansion	32	Design Phase	
C800781	SSAT Narrow Body Configuration	33	●	●
C800784	Emergency Generator	34	Design Phase	
C800789	Garage Plazas and Elevators	35	Design Phase	
C800793	PLB Renew and Replace Phase 2	36	●	●
C800798	SSAT HVAC Infrastructure Upgrade	37	●	●
C800801	Variable Frequency Drive	38	Design Phase	
C800811	Chiller Panel Upgrade	39	●	●
C800818	SSAT Structural Improvements	40	●	●
C800826	ARC Flash Hazard Mitigation	41	Design Phase	
C800833	Holdroom Seating For Concourses B and C	42	●	●
C800834	Ground Based Augmentation System Upgrade	43	Design Phase	

## Aviation, cont.

CIP Number	Project Title	Page	Variance	
			Schedule	Budget
C800841	Tenant Telecommunications DEMARC Upgrade	44		
C800842	AOA Perimeter Fence Line Standards Comp	45	●	●
C800845	C1 Building Expansion	46		
C800846	ADR Kiosk Program Expansion 1	47		
C800862	Terminal Security Enhancements	48	●	●
C800870	Parking Revenue Infrastructure	49		
C800873	Concourse B Gate Reconfiguration	50	●	●
C800876	Fire Station Westside	51		
C800883	Delta Inflight Services Tenant Reimb Agmt	52	●	●
C800886	Central Terminal Enhancements	53	●	●
C800898	Airport Signage Phase 1	54		
C800914	Taxiways ABLQ Improvements	55	●	●
C800920	ASL Conversion at Checkpoints	56	●	●
C800950	FedEx TRA	57		
C800957	NEPL Improvements	58		
C800977	RCF Pavement Remediation	59		
C800980	SD Pond Bird Deterrent Improvement	60		
C800982	CDD and CPO Office Relocations	61	●	●
C800986	Concourse C Space Ramp Renovation	62	●	●
E104395-6	Lora Lake	63	●	●
U00225	Flight Corridor Safety Prog Ph 1	64	●	●

## Other Aviation

CIP Number	Project Title	Page	Variance	
			Schedule	Budget
C200007	Highline School Noise Insulation	65	●	●
C200094	Single Family Sound Insulation	66	●	●
C200095	Condominium Sound Insulation	67		
C800154	Tenant Reimbursement	68	●	●

## Maritime

### Variance Schedule Budget

CIP Number	Project Title	Page	Variance Schedule	Budget
C800355	Shilshole Bay Marina Paving	69	●	●
C800356	Shilshole Tenant Service Buildings	70		Design Phase
C800445	SBM Site Pad Redevelopment	71		Planning Phase
C800525	FT Redevelopment Phase I	72		Design Phase
C800531	FT Docks 3, 4, 5 & 6 Fixed Pier Impr	73		Design Phase
C800895	T-18 Stormwater Outfall Renewal & Repl	74		Design Phase
C800910	T-91 Standoff Barges	75	●	●
C801084	FT Maritime Innovation Center	76		Planning Phase
E104324	Viaduct Construction Coordination	77	●	●
U00218	P66 Alaskan Way Street Improvements	78	●	●

## Economic Development

### Variance Schedule Budget

CIP Number	Project Title	Page	Variance Schedule	Budget
C800887	P69 Commission Chamber Refresh	79	●	●
C800888	P69 Solar Panel System	80	●	●
C800889	BHICC Interior Modernization	81		Design Phase

## Joint Venture

### Variance Schedule Budget

CIP Number	Project Title	Page	Variance Schedule	Budget
C102858 et al	Street Vacations T-5/18/105	82	●	●
C800546	Argo Yard Truck Roadway	83	●	●
C800620-U00064	T-46 Permit Mitigation	84		Design Phase
E102007	East Marginal Way Grade Separation	85	●	●
U00289	T-5 Pile Removal	86	●	●

# Corporate

## Variance Schedule Budget

CIP Number	Project Title	Page	Variance Schedule	Budget
C800728	Parking System Replacement	87	●	●
C800729	Vessel Moorage System	88	●	●
C800747	Project Delivery System	89	●	●
C800748	Remote Data Ctr Business Continuity	90	●	●
C800782	Airport Subway Info Displays	91	●	●
C800790	Checkpoint Wait Time	92	●	●
C800800	SEA Smartphone App	93	●	●
C800907	Supplier Outreach and Procurement System	94	●	●
C800909	PeopleSoft Financials Upgrade	95	●	●
C800929	Rental Car Facility Fleet Tracking System	96	●	●
C801012	Radio System Upgrade	97		Design Phase
C801027	Airport Building Controls System Upgrade	98		Planning Phase

### Key Project Status

- Project within or ahead of target budget and schedule
- Either target schedule or budget are projected to be off
- Both target schedule & budget are off

**Design and Planning Phase - Do not report on Status**

## So. 160th GT Lot Expansion

Fourth Quarter Report, 2018

**Project:** C101107  
**Estimated Budget:** \$4,326,533  
**Phase:** Close Out  
**Construction Start:** 2/12/2018  
**Substantial Completion:** 9/28/2018

Improve lot drainage, complete site fencing and landscaping, rehabilitate the Ground Transportation (GT) Lot building, and underground existing overhead utility lines.

**Project Status – Const. Phase:**

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 9/26/2017  
*(Commission Update)*

### Significant Developments

Project is complete; this will be the last report.

### Budget

Status Justification: Project came on budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project completed six weeks behind schedule due to architect delays.

Impact of delay: Had to retain temporary facilities for a few extra weeks.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	5	15
Amount of CO's	-\$36,120.46	-\$3,513.01

Justification of CO's: CB37 Kitchen Refrigerator; CB40 Rooftop Duct Supports; Reconciliation of Change Order 8; Re-Sterilization of Piping Systems; Cable TV Co-Axial.

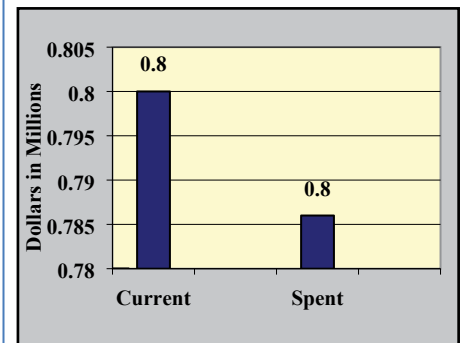
### Risks

No risks.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



**Completed Restroom Improvement**

## AV-Landside



## Service Tunnel Renewal/Replace

Fourth Quarter Report, 2018

**Project:** C102112  
**Estimated Budget:** \$39,505,000  
**Phase:** Construction  
**Construction Start:** 3/29/2017  
**Substantial Completion:** 7/1/2020

Seismically retrofit and structurally strengthen the airport Service Tunnel located between the Main Terminal and Airport Garage.

### Project Status-Const. Phase:

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 7/25/2017  
*(Commission Update)*

### Significant Developments

Construction substantially complete in the southern portion of the Service Tunnel, with construction continuing in the central and northern portions. At the end of Q4, construction was 46% completed with 6% of the work accomplished this quarter.

### Budget

Status Justification: Project is on budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Substantial completion was delayed 48 days due to varying site conditions associated with the relocation of the natural gas line.

Impact of delay: None anticipated. Contractor anticipates completing work ahead of schedule.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	8	33
Amount of CO's	\$405,676.14	\$931,215.50

Justification of CO's: error/omission – designer, varying site condition, scope change, and regulatory requirements.

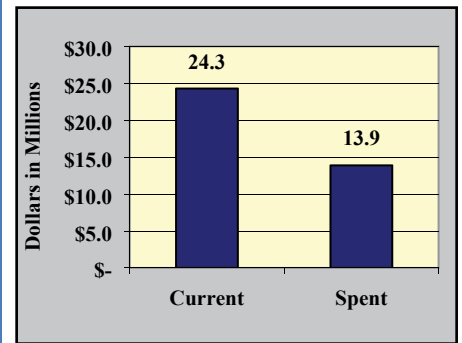
### Risks

Limited work area in the north end could slow construction progress delaying overall completion.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



West Wall Seismic Reinforcement

## AV-Landside

## Air Cargo Rd Safety Improvements

Fourth Quarter Report, 2018

**Project:** C102162  
**Estimated Budget:** \$10,700,000  
**Phase:** Design  
**Construction Start:** 12/4/2019  
**Substantial Completion:** 10/8/2020

Improvements along Air Cargo Rd and S 170th St to support Cell Phone Lot and roadway operations, and meet current safety standards.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Completed initial stakeholder meetings with adjacent tenants and operators to review project scope, purpose, and identify areas of concern. Completed traffic operational analysis and reached agreement with the City of SeaTac on the scope of the roadway improvements. Prepared preliminary channelization plans for review by the Port and City of SeaTac.

### Budget

Status Justification: Project budget has increased due to scope increase.  
 Impact of exceeding budget: Agreed upon project scope reflected a budget increase of \$1,880,410.

### Schedule

Status of Justification: Schedule is delayed  
 Impact of delay: Current delay may be mitigated during remaining design effort

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: N/A

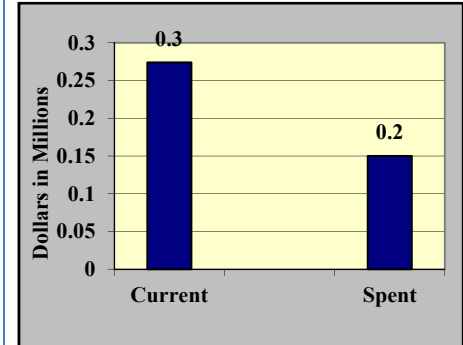
### Risks

Additional project delays from multi-jurisdictional coordination.

### Cost of Construction Growth

N/A

### Construction Costs



Construction costs are for critical pavement repair (2017-2018)

### Photos:



Existing Roadway Conditions

## AV-Landside

## Main Terminal Low Voltage

Fourth Quarter Report, 2018

**Project:** C800061  
**Estimated Budget:** \$100,300,000  
**Phase:** Design  
**Construction Start:** 3/31/2022  
**Substantial Completion:** 6/30/2025

Renew and replace low voltage (600 volts and below) electrical distribution equipment in the Main Terminal

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Procurement for the Design Consultant and General Contractor Construction Manager are in progress and will be completed within schedule.

### Budget

Status Justification: Within budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On Schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

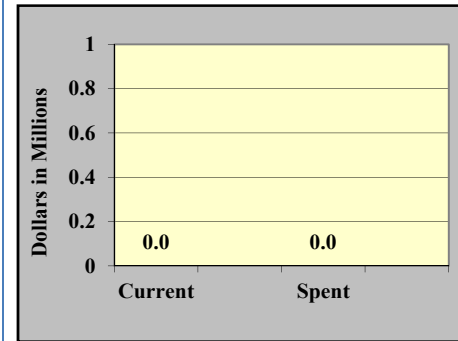
### Risks

Unforeseen field conditions

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

# Electrical Ground Support Equipment Electrical Charge Stations

Fourth Quarter Report, 2018

**Project:** C800335  
**Estimated Budget:** \$30,700,000  
**Phase:** Construction  
**Construction Start:** 12/19/2015  
**Substantial Completion:** 10/14/2021

Airport-wide electrical charging system for electrical ground support equipment (EGSE) at the Concourses and the North and South Satellites

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

Completed expanding the B6 GSE Corral to a six-port from a four-port charging corral. Completed steel protection frame for Concourse A Gates A2 and A3 and removed Jersey Barriers. Delta has additional parking space for the electric GSE vehicles. Installed new 800A 480VAC power panel in Concourse A with commissioning to be completed in Q2 2019. The GSE Ph2 project is broken into three tasks to accommodate and coordinate with other major projects that are in construction at Concourse A, B and South Satellite. Revising design implementation scope of work for each of the work tasks. Worked with Medium Voltage equipment vendor to resolve the Arch Flash mitigation for the existing Concourse B Power Center.

## Budget

Status Justification: Project is within the authorized budget at this time.  
 Impact of exceeding budget: Expect an increase due to three new main power centers which added power requirements for the GSE Charger Phase 2 Project.

## Schedule

Status of Justification: GSE Charger Phase Project delayed due to coordination with other Capital Projects that are currently in construction.  
 Impact of delay: Concourse A, B and South Satellite currently under budget but will increase when design is completed for new major Power Centers for Concourse B and South Satellite.

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

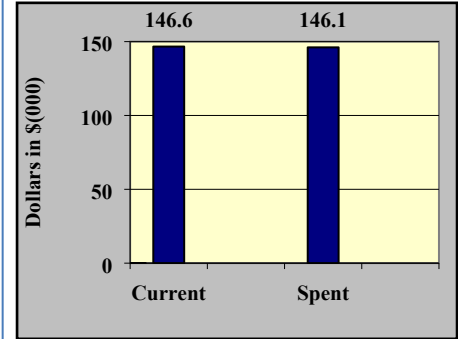
## Risks

Time delays due to construction in areas that impact the GSE Phase 2 Project. Construction costs expected to increase significantly due to increase in labor and material costs.

## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## AV-Infrastructure

## Airfield Pavement Program 2016-2020

Fourth Quarter Report, 2018

**Project:** C800483  
**Estimated Budget:** \$25,800,000  
**Phase:** Design  
**Construction Start:** 3/15/2019  
**Substantial Completion:** 12/2/2020

Multi-year program to replace distressed pavement and joint seal on the airfield starting in 2016 through 2020.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

2019 Airfield Pavement Replacement Project is currently in design phase and is scheduled to be advertised for construction bids in mid-March of 2019. 2020 Airfield Pavement Replacement project is currently in design phase and is scheduled for Commission Authorization for construction in October 19, 2019.

### Budget

Status Justification: These projects are on budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: these projects are on schedule.  
 Impact of delay: N/A

### Change Order

	Current Quarter	Project Total
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

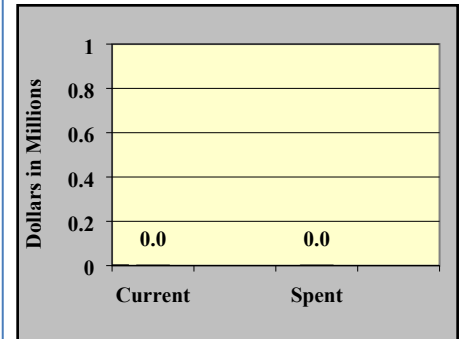
### Risks

Although the 2020 Airfield Pavement Replacement Project is currently on schedule, early delays mean all milestones must be met from this point forward.

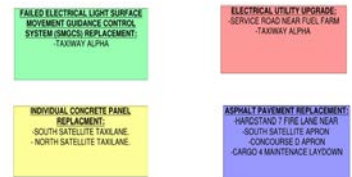
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



2019 Airfield Pavement Replacement Project.



2020 Airfield Pavement Replacement Project.

## AV-Airfield

## Emergency Back-up Water Supply

Fourth Quarter Report, 2018

**Project:** C800493  
**Estimated Budget:** \$2,739,000  
**Phase:** Design  
**Construction Start:** 1/24/2020  
**Substantial Completion:** 7/5/2021

Develop the Tye Golf Course Well into a backup water supply for potable use and fire protection for the Airport.

### Project Status-Const. Phase

**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Received Commission approval for design on January 22, 2019.

### Budget

Status Justification: On budget

Impact of exceeding budget: On budget

### Schedule

Status of Justification: On schedule

Impact of delay: Not delayed

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

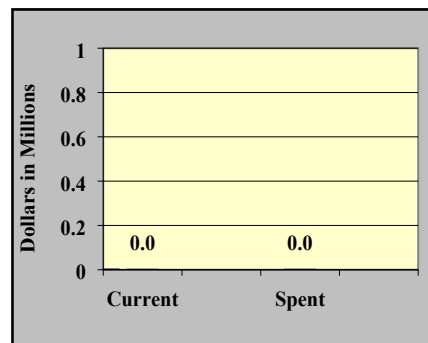
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

**Project:** C800556  
**Estimated Budget:** \$672,125,232  
**Phase:** Construction  
**Construction Start:** 7/24/2012  
**Substantial Completion:** 9/30/2020

Renovation and expansion of the North Satellite (NSAT), including NSAT Satellite Transit System (STS) stations "refresh", ramp level, Concourse level, and new rooftop airline lounge.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 8/15/2017  
*(Commission Update)*

**Significant Developments**

Successfully opened on schedule on January 23, 2019. Completed full scale passenger experience simulation prior to opening Phase 1A. Emergency Generator placed into service. Communication and Security systems placed into service. Began construction of the existing North Satellite building and Concourse C STS station and vertical conveyance

**Budget**

Status Justification: On Schedule  
 Impact of exceeding budget: N/A

**Schedule**

Status Justification: On Budget  
 Impact of delay: N/A

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	64	404
Amount of CO's	\$3,584,067	\$14,151,483

Justification of CO's: \$3.1M additional design development allowance; \$500k scope changes & E&O

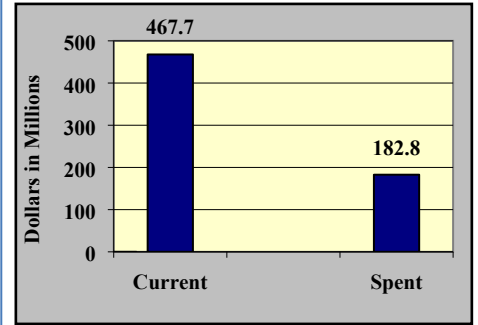
**Risks**

Maintaining budget and schedule due to further changes, errors and omissions, differing site conditions, customer service and unforeseen events during construction. Increasing contractor design development estimates and mitigation of critical trade worker shortages.

**Cost of Construction Growth**

N//A

**Construction Costs**



**Photos:**



## International Arrivals Facility (IAF)

Fourth Quarter Report, 2018

**Project:** C800583  
**Estimated Budget:** 931445000  
**Phase:** Construction  
**Construction Start:** 9/1/2016  
**Substantial Completion:** 5/30/2020

Planning, design, and construction of a new Federal Inspection Services (FIS) facility including a pedestrian walkway connecting the S. Satellite and seven Concourse A gates to the new IAF.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 9/26/2018  
*(Commission Update)*

### Significant Developments

IAF Steel topped out. Pedestrian Walkway Center Span started. Construction on the IAF Building continues to progress.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: On Schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	4
Amount of CO's	\$0	\$0

Justification of CO's: None

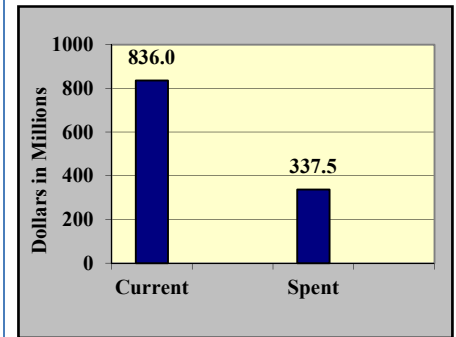
### Risks

Custom and Border Protection program requirements still pending. Manpower availability continues to be of concern in the busy market. Subsurface conditions for remaining Sterile Corridor foundation work remains a concern.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-International Arrivals Facility



## Wi-Fi Enhancement

Fourth Quarter Report, 2018

**Project:** C800585  
**Estimated Budget:** \$10,676,000  
**Phase:** Construction  
**Construction Start:** 9/2/2016  
**Substantial Completion:** 6/6/2020

Upgrade Wi-Fi system in the public and ramp operational areas of the Airport. Provide micro-distribution cabinets on the ramp of each concourse to extend communications infrastructure.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** Projected Over  
**Status Reset:** 8/8/2017  
*(Commission Update)*

### Significant Developments

There is a budget issue with the Passenger loading bridge Wi-Fi preferred solution which has proven more challenging than originally anticipated. Project team continues to evaluate options for best value.

### Budget

Status Justification: Remaining Wi-Fi installation has been challenging.

Impact of exceeding budget: Budget issues associated with the installation will need to be resolved.

### Schedule

Status of Justification: Remaining design has taken longer than anticipated.

Impact of delay: Remaining Wi-Fi construction will finish later than planned.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	7	44
Amount of CO's	\$28,952	\$104,405

Justification of CO's: Design issues and requested changes

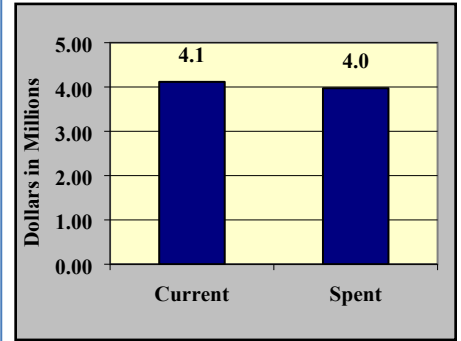
### Risks

The proposed passenger loading bridge solution is projected to cost more than originally anticipated. Project team evaluating options.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

## Security Exit Lane Breach Control – Phase 2

Fourth Quarter Report, 2018

**Project:** C800605  
**Estimated Budget:** \$11,100,000  
**Phase:** Design  
**Construction Start:** 6/21/2019  
**Substantial Completion:** 8/30/2020

Installation of automated security breach control equipment at exits to Concourses A, B, and North and South Satellite Transit System exits.

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Preparing to advertise Request for Proposal.

### Budget

Status Justification: Project within budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project delay attributed to resource availability issues which have been overcome.

Impact of delay: Installation of equipment is taking longer than expected.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

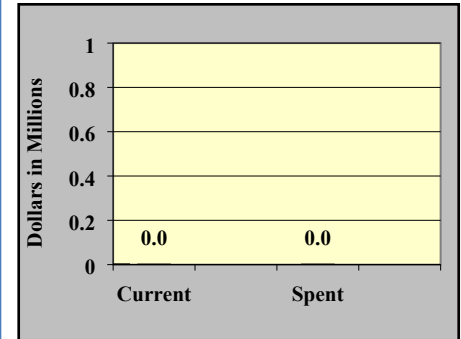
### Risks

Airport response to growth remains challenging with respect to exit placement.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Security

## Checked Baggage Recapitalization/Optimization

Fourth Quarter Report, 2018

**Project:** C800612  
**Estimated Budget:** \$445,050,000  
**Phase:** Construction  
**Construction Start:** 2/26/2013  
**Construction Completion:** 8/28/2025

TSA approached the Airport in 2012 with a plan to replace all federally owned equipment. In addition the project replaces the remainder of the outbound baggage system.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** Projected Over  
**Status Reset:** 6/27/2017  
*(Commission Update)*

### Significant Developments

Phase 1 – Contractor has installed 85% of all conveyor sections and continues to work on utilities and infrastructure to support the conveyor installation.

Phase 2 – Permit set was submitted to the Building Department for review and approval. Efforts to prepare bid documents started in preparation to advertise.

### Budget

Status Justification: Budget increase will likely be required prior to Phase 3 construction in 2022 due to market conditions.

Impact of exceeding budget: Phase 3 design documents indicate the increase in overall project cost ranges between \$40 and \$80 million.

### Schedule

Status of Justification: Phase 1 – The Contractor is extending the scheduled duration for Phase 1 substantial completion to Q4 2019, schedule likely be six months behind schedule. Phase 2 – Planned construction advertisement is contingent upon Phase 1 completion. The South Satellite portion of Phase 2 is dependent on the International Arrivals Facility project being operational.

Impact of delay: While the current delay is likely unrecoverable; currently working to eliminate additional delays.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	15	46
Amount of CO's	\$503,300	\$2,010,936

Justification of CO's: error and omissions, varying site conditions and owner requested changes.

### Risks

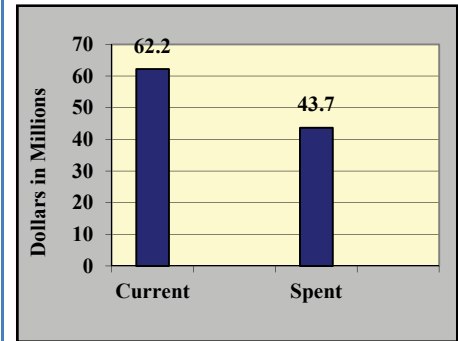
- Contractor delays affecting the overall completion date.
- BHS upper controls and network architecture as proposed by the Contractor does not meet the project specifications.
- Forecasting a potential budget increase due to high market demand for BHS Contractors, steel pricing, hot Seattle construction market, and the PLA structure of the future phases of the project.

### Cost of Construction Growth

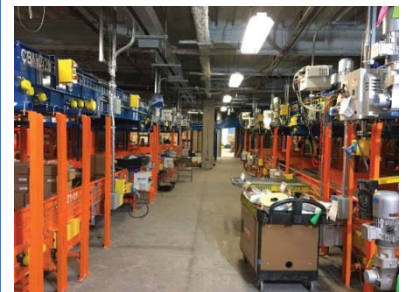
N/A

### AV-Baggage

### Construction Costs



### Photos:



## Dining and Retail Infrastructure Modernization

Fourth Quarter Report, 2018

**Project: C800638**  
**Estimated Budget: \$15,088,000**  
**Phase: Construction**  
**Construction Start: 12/27/2017**  
**Substantial Completion: 12/21/2019**

Provide infrastructure modifications, and re-demising of spaces in support of the Airport Dining and Retail concessions plan.

**Project Status – Const. Phase:**  
**Schedule: On or Ahead**  
**Budget: On or Under**  
**Status Reset: 6/28/2016**  
*(Commission Update)*

### Significant Developments

Preparing to remodel a space on Concourse C for future dining opportunities. Construction to start soon.

### Budget

Status Justification: On Budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project schedule is impacted by leasing efforts. Project is on schedule.

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

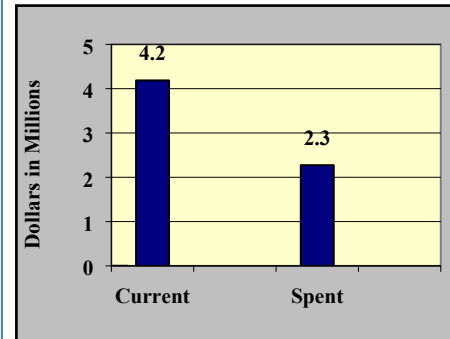
### Risks

Tenant delays can cause delays in construction and leave project open to budget escalation.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Terminal & Tenant

**Project:** C800642  
**Estimated Budget:** \$13,000,000  
**Phase:** Construction  
**Construction Start:** 8/13/2016  
**Substantial Completion:** 4/19/2019

Add cameras and improve the video management system at the Airport. Project funded by a TSA Other Transaction Agreement (OTA) grant.

**Project Status-Const. Phase:**  
**Schedule:** Projected Delay  
**Budget:** On or Under  
**Status Reset:** 5/23/2017  
*(Commission Update)*

## Significant Developments

Continue with the Main Terminal camera installation.

## Budget

Status Justification: Project is on budget.

Impact of exceeding budget: N/A

## Schedule

Status of Justification: Project delayed due to field condition issues encountered during construction.

Impact of delay: Project's substantial completion date has moved from late-December 2018 to late-April 2019.

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	8	27
Amount of CO's	\$15,583	\$161,241

Justification of CO's: Changed field conditions and adjusted camera locations

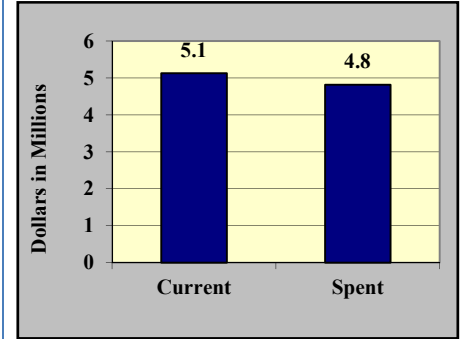
## Risks

No significant risks remain.

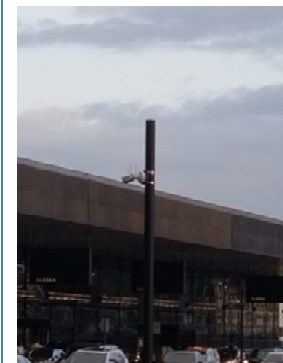
## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## AV-Security

## IWS Segregation Improvements

Fourth Quarter Report, 2018

**Project: C800655**  
**Estimated Budget: \$2,274,000**  
**Phase: Design**  
**Construction Start: 5/15/2019**  
**Substantial Completion: 2/1/2020**

Install Total Organic Carbon (TOC) analyzers into the existing Industrial Wastewater conveyance system serving the Terminal Areas of the Airport.

**Project Status-Const. Phase:**  
**Schedule: N/A**  
**Budget: N/A**  
**Status Reset: N/A**  
*(Commission Update)*

### Significant Developments

Commission Authorization received for an increase in budget; for design and construction; and to advertise and award construction contract.

### Budget

Status Justification: On budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Scheduled re-based line after Authorization

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

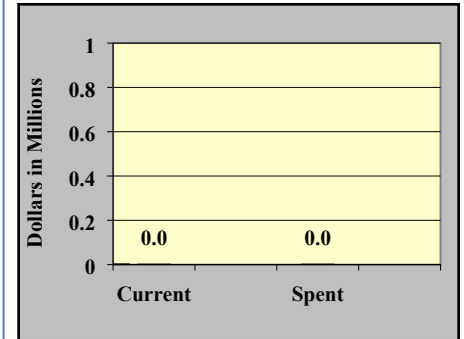
### Risks

Construction needs to take place during the dry season. Weather can be an impact.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## Mechanical Energy Conservation

Fourth Quarter Report, 2018

**Project:** C800658

**Estimated Budget:** \$7,121,000

**Phase:** Construction

**Construction Start:** 7/25/2017

**Substantial Completion:** 7/31/2019

Perform ESCO audit, identify and prove savings, design and construct project.

**Project Status-Const. Phase:**

**Schedule:** On or Ahead

**Budget:** On or Under

**Status Reset:** 7/25/2017

*(Commission Update)*

### Significant Developments

Contractor submitted for construction permit. Anticipate construction to start in Q1 2019.

### Budget

Status Justification: Estimate at completion is within the approved budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule.

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	1	1
Amount of CO's	\$0	\$0

Justification of CO's:

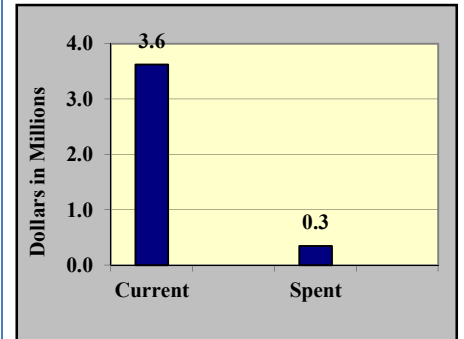
### Risks

Unforeseen field conditions

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## C3 Holdroom Expansion

Fourth Quarter Report, 2018

**Project:** C800695  
**Estimated Budget:** \$6,300,000  
**Phase:** Close Out  
**Construction Start:** N/A  
**Construction Completion:** N/A

Provide a 1,500 sf building addition to increase the size of Gate C3 passenger Holdroom.  
Provide 1,130 sf renovation of existing Holdroom

**Project Status-Const. Phase**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

The expansion of the Gate C3 holdroom will be completed as part of a future project. This is the final report

### Budget

Status Justification: N/A  
Impact of exceeding budget: N/A

### Schedule

Status of Justification: N/A  
Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

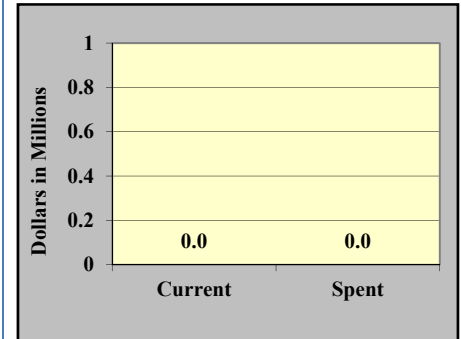
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



## AV-Security



## Concourse B, C, and D Restroom Upgrades

Fourth Quarter Report, 2018

**Project:** C800697  
**Estimated Budget:** \$38,379,000  
**Phase:** Construction  
**Construction Start:** 1/8/2018  
**Substantial Completion:** 10/15/2022

Renovate public restrooms on Concourses B, C, and D. Increase size on a portion; build new ones; build space for displaced existing tenant functions; and enlarge the building to add one additional new set of restrooms.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

This is a five-phase project: Phase one is complete. Phase two awarded and contractor is completing pre-construction submittals; Phase three design is complete and FAA review is underway but not yet complete. Therefore, advertising is now anticipated for Q3 2019. Phase four design is underway. Phase 5 will start later.

### Budget

Status Justification: Project is within budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Phase 3 is delayed due to ongoing reviews taking longer than anticipated. Overall project remains on schedule.

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	6	13
Amount of CO's	\$28,281	\$52,863

Justification of CO's: None

### Risks

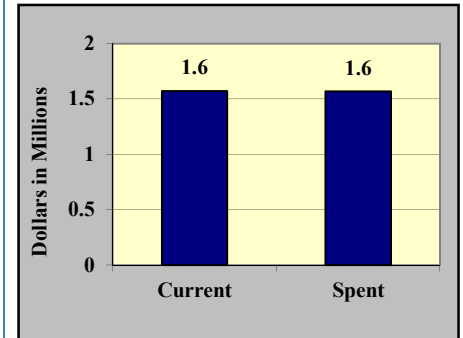
FAA reviews may take longer than anticipated and delay the project.

### Cost of Construction Growth

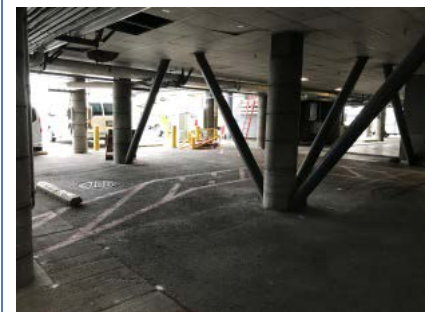
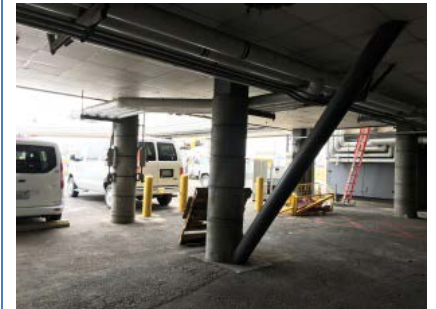
N/A

### AV-Terminal & Tenant

### Construction Costs



### Photos:



## Electric Utility SCADA

Fourth Quarter Report, 2018

**Project:** C800699  
**Estimated Budget:** \$9,600,000  
**Phase:** Design  
**Construction Start:** 7/23/2019  
**Substantial Completion:** 11/20/2020

Install a Supervisory Control and Data Acquisition (SCADA) system for the Airport's 12.47 kV Medium Voltage (MV) power distribution network.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Value engineering effort complete.

### Budget

Status Justification: Project estimate at completion exceeds the current authorization.

Impact of exceeding budget: Return to Commission Q2 2019

### Schedule

Status of Justification: Project is behind schedule

Impact of delay: Design delays could result in greater construction costs.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

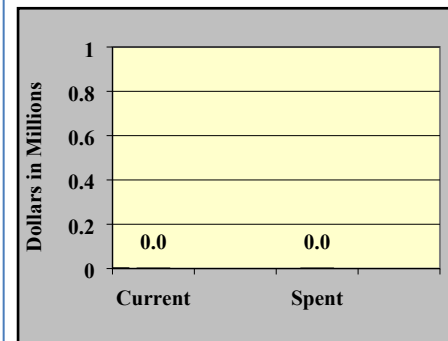
### Risks

Unknown field conditions

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Infrastructure

## Concourse B & C Roof Replacement

Fourth Quarter Report, 2018

**Project:** C800770, C800702  
**Estimated Budget:** \$13,183,000  
**Phase:** Construction  
**Construction Start:** 6/9/2017  
**Substantial Completion:** 2/28/2019

Overlay the existing roof system, install a new elastomeric roofing system; ladders and fall protection; and replace and refurbish the existing skylight window/walls.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 1/24/2017  
*(Commission Update)*

### Significant Developments

Contractor is finishing items found after substantial completion was achieved. This is the final report.

### Budget

Status Justification: Under budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Contractor working to finish remaining items.

Impact of delay: No impact to the Port.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	1	39
Amount of CO's	(\$6,924)	\$182,088

Justification of CO's: Varying site conditions and design issues.

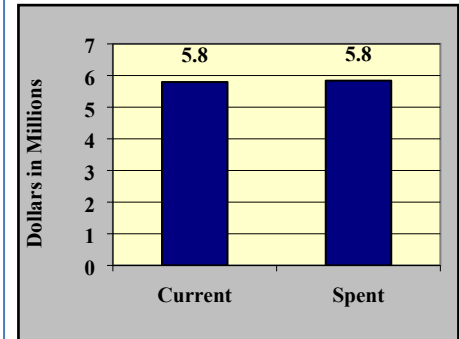
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Terminal & Tenant

## North Terminal Utilities Upgrade

Fourth Quarter Report, 2018

**Project:** C800717  
**Estimated Budget:** \$21,335,000  
**Phase:** Design  
**Construction Start:** 6/1/2019  
**Substantial Completion:** 10/17/2021

Replace and extend the steam, condensate and chilled water supply and return piping from the Central Mechanical Plant to the end of mechanical room 4 and to the ends of the S. and W. Loops.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Nearing completion of 100% design phase. It is scheduled for completion Q2 2019.

### Budget

Status Justification: Project is currently on budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$

Justification of CO's: None

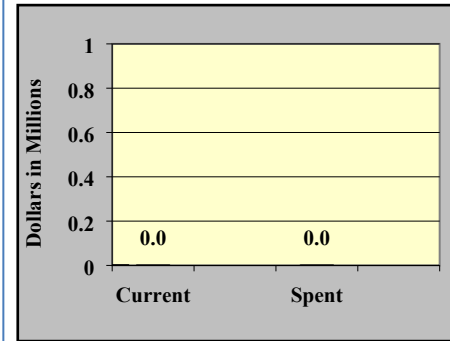
### Risks

Single bidder or no bidder.

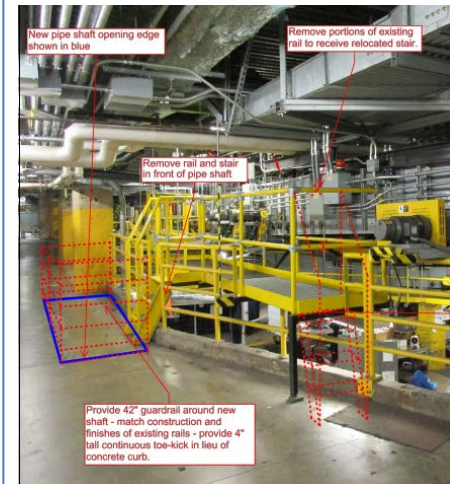
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

# Central Terminal Infrastructure Upgrade

Fourth Quarter Report, 2018

**Project:** C800722  
**Estimated Budget:** \$16,834,000  
**Phase:** Construction  
**Construction Start:** 9/9/2017  
**Substantial Completion:** 2/27/2020

Install HVAC, elevators, stairways for mezzanine levels of the central terminal. Reconfigure tenant spaces on the Concourse level of the central terminal in order to improve customer service and experience.

**Project Status – Const. Phase:**  
**Schedule:** Projected Delay  
**Budget:** Projected Over  
**Status Reset:** 6/27/2017  
*(Commission Update)*

## Significant Developments

Project is in construction phase II (north half of the Central Terminal).

## Budget

Status Justification: Projected EAC exceeds current authorization  
Impact of exceeding budget: N/A

## Schedule

Status of Justification: Project behind schedule  
Impact of delay: Delay claim change orders from contractor

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	13	39
Amount of CO's	\$148,864	\$389,286

Justification of CO's:

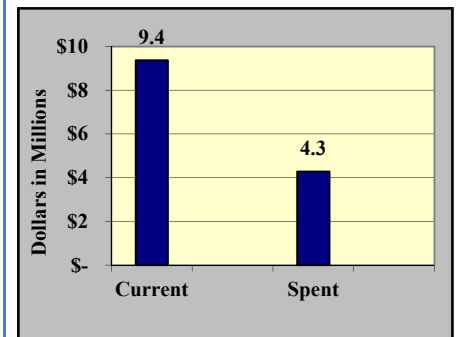
## Risks

Continued delays in construction. Un-foreseen conditions, design errors and omissions and Port directed decisions.

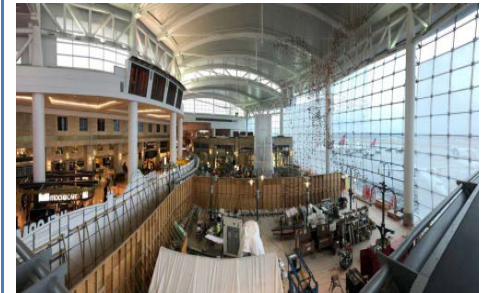
## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## AV-Infrastructure

**Project:** C800724  
**Estimated Budget:** \$10,500,000  
**Phase:** Design  
**Construction Start:** 9/24/2019  
**Substantial Completion:** 4/28/2021

Add new 3200A double ended unit substation on Ramp level at column line F/40 for a new electrical room in Concourse C. Existing distribution panels will be re-fed from the new power center, new distribution panels and branch circuit panels will be added.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Continue to resolve design issues with Medium Voltage routing, ARC Flash mitigation and naming of electrical equipment. Resolve technical issues for metering and data retrieval Communication to comply with the new SCADA and Arc Flash Project that are currently in design. Worked with Medium Voltage equipment vendor to resolve the Arch Flash mitigation for Concourse C new Power Center 15kV load break Vacuum Breakers and protection. See pictures of cases (Not at Sea-Tac) where design did not address equipment Arc Flash. Last picture is the Concourse B 15kV Switchgear that will be replaced with new 15kV Switchgear using Vacuum Breakers.

**Budget**

Status Justification: Project is within the authorized budget  
 Impact of exceeding budget: Budget may increase due to increases in materials and labor construction costs.

**Schedule**

Status of Justification: Project delayed due to coordinating with other Capital Projects that are currently in construction and the AE management changes and staffing.  
 Impact of delay: Project delays incurred due to coordinating with other CIP projects and the AE management and staff changes.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

**Risks**

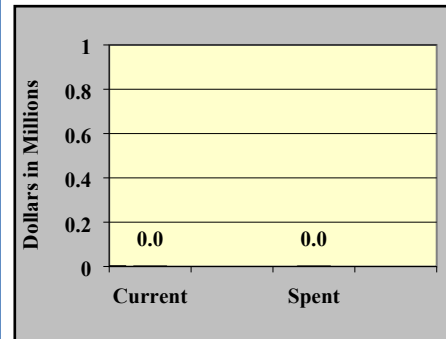
Tie delays due to construction in areas that impact this Project. Construction costs expected to increase significantly due to increase in labor and material costs.

**Cost of Construction Growth**

N/A

**AV-Infrastructure**

**Construction Costs**



**Photos:**



Above is a switchgear contactor after a 5 kV arc-flash event during which traditional overcurrent protection was applied. The damage required replacement of the contactor, fuse clips, copper bus, cable, control wiring, disconnect mechanism, and hardware.



Shown here (before any cleanup) is the interior of switchgear that was protected by SEL light-sensing and overcurrent protection during a 6.6 kV arc-flash event. Damage was limited to arcing on the cable termination bolts.



## Concourse B Ramp Level Holdroom

Fourth Quarter Report, 2018

**Project:** C800761  
**Estimated Budget:** \$5,548,000  
**Phase:** Construction  
**Construction Start:** 1/11/2017  
**Substantial Completion:** 6/1/2019

Construct a ramp level holdroom on Concourse B to serve airline passengers bussed to and from remotely parked flights at hardstands.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 3/27/2018  
*(Commission Update)*

### Significant Developments

Design is progressing for the remaining work. Anticipate construction to be completed in June.

### Budget

Status Justification: No changes to budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Design has taken longer than anticipated.  
 Impact of delay: Remaining elements now scheduled to be complete in June.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	28
Amount of CO's	\$0	\$344,602

Justification of CO's: None

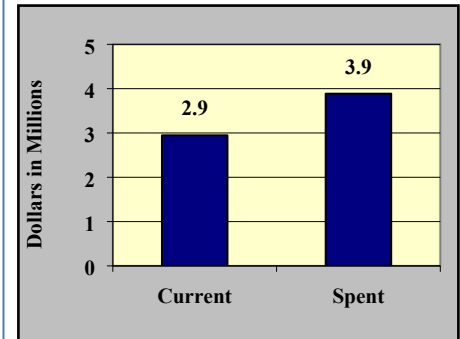
### Risks

There are no known significant risks.

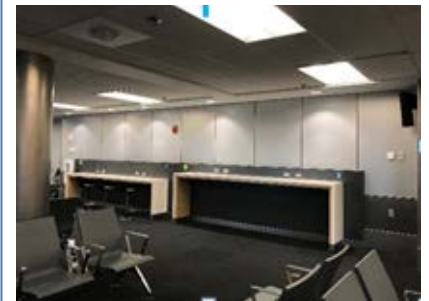
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



### AV-Terminal & Tenant

## Telecommunications Meet Me Room

Fourth Quarter Report, 2018

**Project:** C800762  
**Estimated Budget:** \$3,928,000  
**Phase:** Design  
**Construction Start:** 1/29/2020  
**Substantial Completion:** 4/22/2021

The Telecommunications "Meet Me Room" is a gateway to the internet and allows quick, reliable, and cost-effective network connections for all of the airport's tenants.

**Project Status – Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Completed 60% design.

### Budget

Status Justification: Project is within the authorized budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule  
 Impact of delay: No delay

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

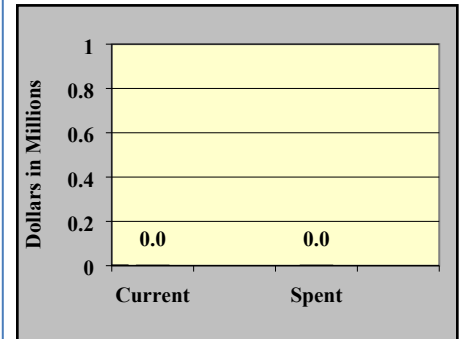
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure



## Concourse D Hardstand Holdroom

Fourth Quarter Report, 2018

**Project:** C800769  
**Estimated Budget:** \$38,400,000  
**Phase:** Close Out  
**Construction Start:** 9/11/2017  
**Substantial Completion:** 10/12/2018

Construct a 32,500 SF building using the alternative public works design/build method to support passengers bused to and from airline flights parked at remote hardstands.

### Project Status-Const. Phase:

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

The Concourse D Hardstand Holdroom project is complete and open to the public. This is the final report.

### Budget

Status Justification: The project is within budget.

Impact of exceeding budget: None

### Schedule

Status of Justification: Project is complete.

Impact of delay: None

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	6	47
Amount of CO's	\$154,361	\$1,334,450

Justification of CO's: Varying site conditions contributed to the changes.

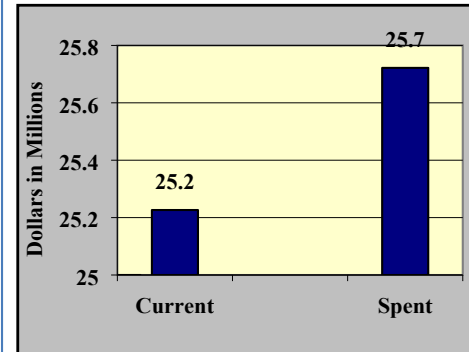
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

## Safedock Upgrade and Expansion

Fourth Quarter Report, 2018

**Project:** C800779  
**Estimated Budget:** \$28,218,250  
**Phase:** Design  
**Construction Start:** 4/30/2019  
**Substantial Completion:** 9/4/2020

Install Safedock units at approximately 90 gates. Connect all existing Safedock units to communications and power. Install Safedock Gate Operating System

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Continue to proceed with 90% design which has been delayed with Aviation Operations concurrence until approximately mid-March to incorporate Aviation Operations scope. Add scope to bring all loading bridges up to a common standard with regard to Safedock related communication infrastructure. Coordination meetings continue between the Port's Project Management, Design team and Airport Operations (as liaison with the airlines) to ascertain optimal phasing.

### Budget

Status Justification: On budget.  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Completion of 90% design has been delayed.  
 Impact of delay: There will likely be an escalation in construction cost due to delays.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	N/A	N/A
Amount of CO's	N/A	N/A

Justification of CO's:

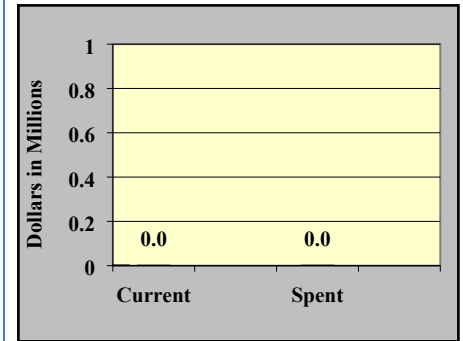
### Risks

Close coordination of multiple other projects around the terminal buildings will be necessary to avoid installation delays.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Airfield

## South Satellite Narrow Body Configuration

Fourth Quarter Report, 2018

**Project:** C800781  
**Estimated Budget:** \$5,500,000  
**Phase:** Construction  
**Construction Start:** 9/1/2016  
**Substantial Completion:** 5/30/2020

Planning, design and construction of three new narrow body positions at the S. Satellite. Scope includes new: 1 passenger loading bridge, 1 fuel pit, a passenger ramp at S10, portable equipment, and pavement markings.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 2/23/2016  
*(Commission Update)*

### Significant Developments

Construction is on pace with the overall International Arrivals Facility (IAF) project completion.

### Budget

Status Justification: On Budget  
Impact of exceeding budget: N/A

### Schedule

Status of Justification: On Schedule  
Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

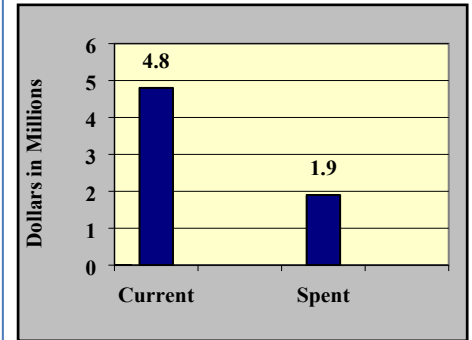
### Risks

Potential cost and schedule impacts from forecasted shortages of skilled labor in the current robust Seattle construction market remains a risk.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-International Arrivals Facility

# Emergency Generator Control Renewal and Replacement

Fourth Quarter Report, 2018

**Project:** C800784  
**Estimated Budget:** \$2,640,000  
**Phase:** Design  
**Construction Start:** 6/24/2019  
**Substantial Completion:** 2/20/2021

Replace and re-program generator programmable logic controllers (PLCs). Install load bank with controls for “Life Safety” code required generator load testing

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

Working on 90% design based on updated scope. Anticipate 100% design completion end of Q2 2019.

## Budget

Status Justification: 60% design review currently shows forecast greater than current budget due to added scope items, including addition of Load Banks. Impact of exceeding budget: Additional authorization will be requested from Commission in Q3, 2019

## Schedule

Status of Justification: Project is behind schedule due to design complications. Impact of delay: None

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

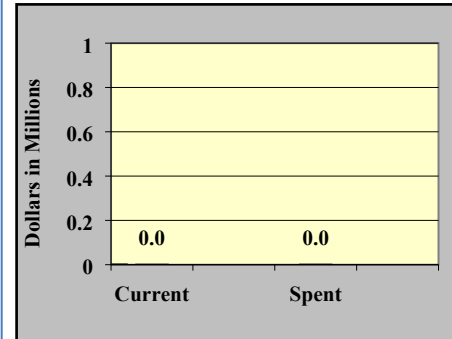
## Risks

Added scope changes and inclusion of Load Banks make it necessary to re-visit 90% design effort. Potential budget increase request shall be evaluated during the 90% design review.

## Cost of Construction Growth

N/A

## Construction Costs



## Photos:

None

## AV-Infrastructure

## Parking Garage Elevator Modernization

Fourth Quarter Report, 2018

**Project:** C800789  
**Estimated Budget:** \$23,276,000  
**Phase:** Design  
**Construction Start:** 5/14/2019  
**Substantial Completion:** 1/27/2023

Phase 1- weatherize elevator cores Sections B, C, and provide lobby floor treatments. Phase 2 - replace elevators in Sections B, C, modernize elevator cabs, replace motor drives in Sections D, E and modernize the elevator cabs in Section A.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Phase 1 design is close to 90% complete. Project notebook completed for Phase 2.

### Budget

Status Justification: Phases 1 and 2 are on budget.  
 Impact of exceeding budget: On budget

### Schedule

Status of Justification: Phases 1 and 2 are on schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None at this time

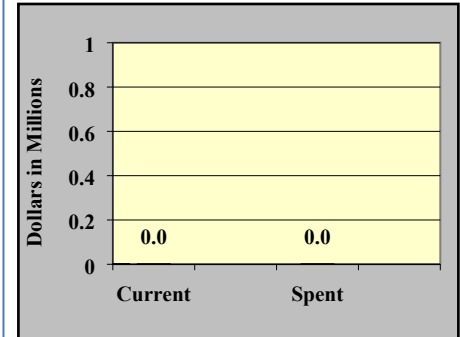
### Risks

Phases 1 and 2 could experience weather delays.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## PLB Renew & Replace Phase 2

Fourth Quarter Report, 2018

**Project:** C800793  
**Estimated Budget:** \$10,000,000  
**Phase:** Construction  
**Construction Start:** 1/23/2018  
**Substantial Completion:** 12/12/2020

Replace nine passenger loading bridges (PLB's)

### Project Status-Const. Phase:

**Schedule:** On or Ahead  
**Budget:** Projected Over  
**Status Reset:** 2/28/2017  
*(Commission Update)*

### Significant Developments

Finishing construction at S6 and starting construction at C15. Working on finishing design for B10, D4, and D11.

### Budget

Status Justification: Projected to be over budget because of multiple in ground utilities requiring extensive modifications to expand and/or fully replace PLB foundations. Two additional PLBs have been identified as needing replacement in near term.

Impact of exceeding budget: Spending approximately \$200,000 more per PLB than budgeted due to unforeseen conditions.

### Schedule

Status of Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

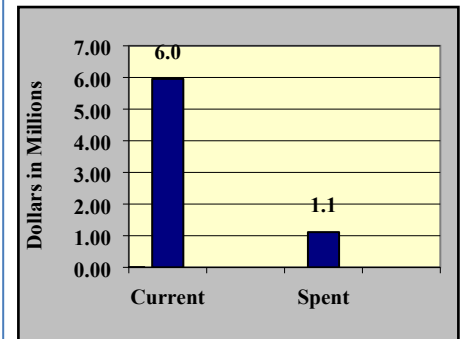
### Risks

Additional unknown utilities and large amounts of secondary equipment installed on fixed walkways could increase budget.

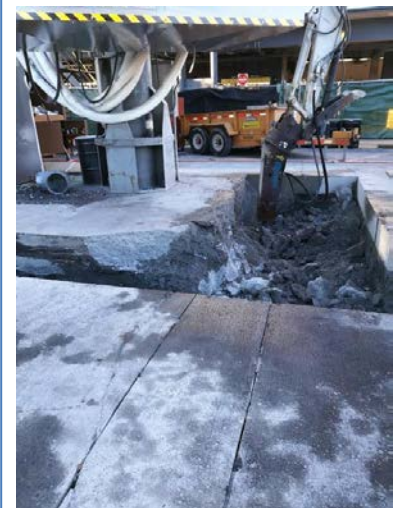
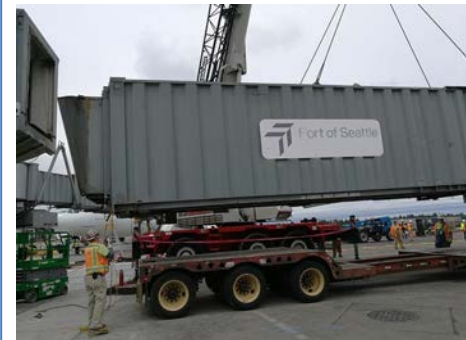
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## SSAT Infrastructure Upgrades

Fourth Quarter Report, 2018

**Project:** C800798  
**Estimated Budget:** \$52,232,000  
**Phase:** Construction  
**Construction Start:** 11/14/2018  
**Substantial Completion:** 1/19/2022

Replace hot and cold deck fans, coils and controls with energy efficient new air handler, coils and controls. New scope will replace ceiling, lights, fire sprinklers, signage, and carpet.

### Project Status-Const. Phase:

**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 10/23/2018  
*(Commission Update)*

### Significant Developments

Currently in award process after receiving two bids.

### Budget

Status Justification: Project is within the authorized budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project is on schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

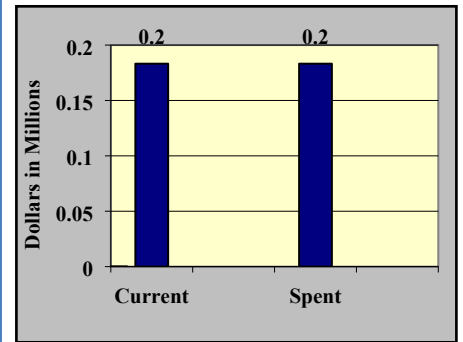
### Risks

Unforeseen field conditions

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## Variable Frequency Drive

Fourth Quarter Report, 2018

**Project:** C800801  
**Estimated Budget:** \$3,995,000  
**Phase:** Design  
**Construction Start:** 3/9/2019  
**Substantial Completion:** 9/30/2020

Replace 47 of the oldest Variable Frequency Drives (VFD's) installed at Sea-Tac.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Project pending building department review and approval.

### Budget

Status Justification: Project is within the authorized budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project is on schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

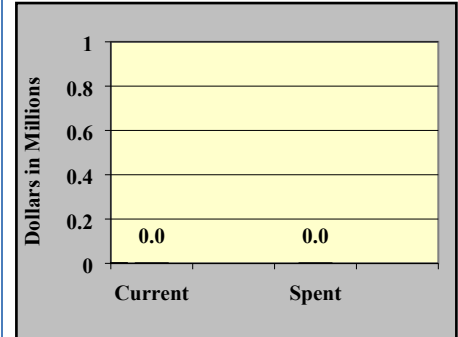
### Risks

If the older VFD's fail prior to starting this project.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



VFD Powering a 350 HP motor

## AV-Infrastructure



## Chiller Panel Upgrade

Fourth Quarter Report, 2018

**Project:** C800811  
**Estimated Budget:** \$900,000  
**Phase:** Construction  
**Construction Start:** 10/31/2018  
**Substantial Completion:** 7/16/2019

Convert integrated control panels for 3 central mechanical plant chillers

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 1/9/2018  
*(Commission Update)*

### Significant Developments

Favorable construction bids received, anticipate Notice to Proceed in Q1 2019.

### Budget

Status Justification: Project is on budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project is on schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

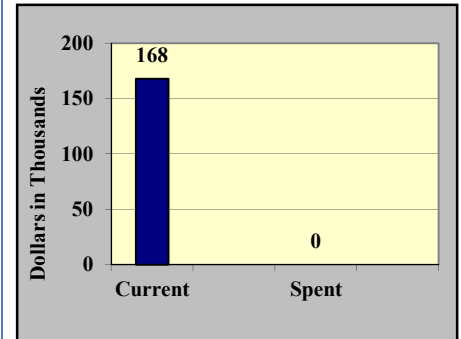
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Infrastructure

## SSAT Structural Improvements

Fourth Quarter Report, 2018

**Project:** C800818  
**Estimated Budget:** \$4,050,000  
**Phase:** Construction  
**Construction Start:** 10/21/2017  
**Substantial Completion:** 2/25/2019

Improvements to the South Satellite (SSAT) building to address structural deficiencies. Work includes abatement of regulated materials.

### Project Status-Const. Phase:

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 8/8/2017  
*(Commission Update)*

### Significant Developments

Reached substantial completion in December 2018 on the work on the ramp and corridor levels. Phase II of the concourse level construction work is scheduled to complete in Q1 2019.

### Budget

Status Justification: Project is under budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project has been delayed to minimize the impacts of restaurant closures on the traveling public in the South Satellite.

Impact of delay: None; the work has been able to be re-phrased.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	5	20
Amount of CO's	\$51,945	\$156,629

Justification of CO's: Varying Site Conditions, Scope Change, Regulatory Requirement

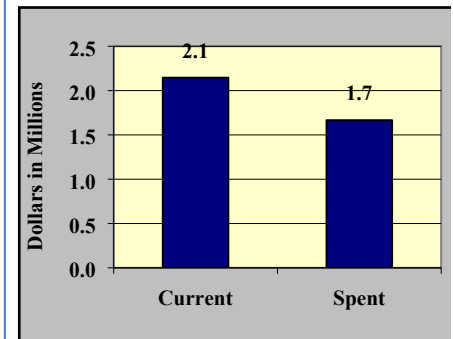
### Risks

Concourse level work could take longer due to unknown site conditions, delaying the re-opening of the restaurants.

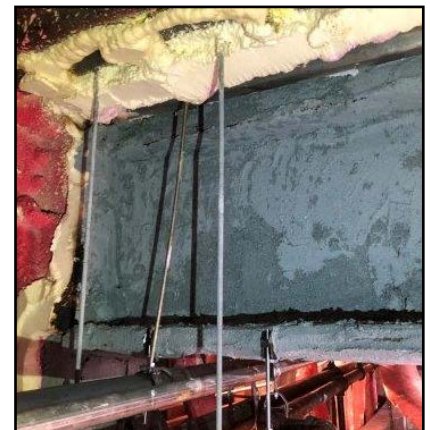
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



Corridor Level - Fireproofing



Corridor Level – New Maintenance Access Doors

## AV-Terminal & Tenant

## Arc Flash Mitigation

Fourth Quarter Report, 2018

**Project:** C800826  
**Estimated Budget:** \$7,533,000  
**Phase:** Design  
**Construction Start:** 2/26/2019  
**Substantial Completion:** 8/27/2020

Replace medium voltage fused switches with medium voltage circuit breakers at six power centers.

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Finalizing the design for the project.

### Budget

Status Justification: Within budget

Impact of exceeding budget: On budget

### Schedule

Status of Justification: Delay during design phase has pushed the schedule out

Impact of delay: might result in additional cost to the project.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: N/A

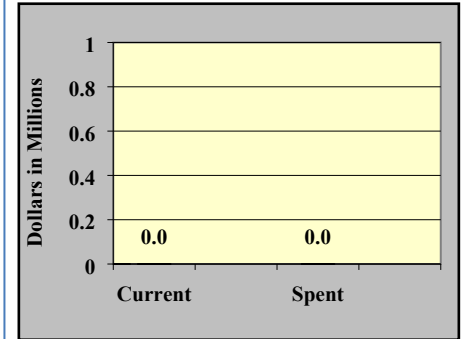
### Risks

Change in personnel has led to delay.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## Holdroom Seating for Concourses B & C

Fourth Quarter Report, 2018

**Project:** C800833  
**Estimated Budget:** \$9,300,000  
**Phase:** Construction  
**Construction Start:** 3/27/2018  
**Substantial Completion:** 5/31/2019

Replace existing passenger holdroom seating in Concourses B and C. Provide electrical improvements to support required power for new seating.

### Project Status:

**Schedule:** Projected Delay  
**Budget:** On or Under  
**Status Reset:** 4/11/2017  
*(Commission Update)*

### Significant Developments

New holdroom seats have been installed on Concourse C. Installation of seats on Concourse B is underway.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: It was determined at the completion of design that more time was required for construction due to the risk associated with unknown conditions.

Impact of delay: Additional 170 days added to the contractor's schedule;  
 Charging capabilities delayed

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	2	3
Amount of CO's	\$14,980.46	\$61,443.46

Justification of CO's: Unforeseen conditions.

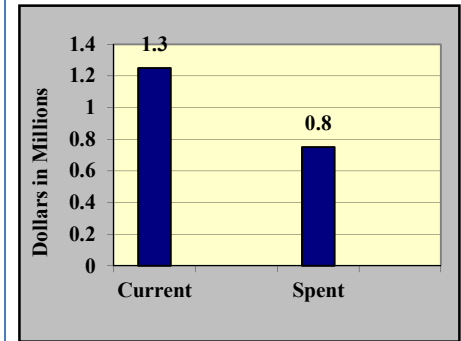
### Risks

Conditions are unknown in some areas where electrical work is being performed but is being monitored and managed.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Infrastructure

## GBAS Upgrade

Fourth Quarter Report, 2018

**Project:** C800834  
**Estimated Budget:** \$4,588,000  
**Phase:** Design  
**Construction Start:** 6/29/2019  
**Substantial Completion:** 2/10/2020

Upgrade Sea-Tac's Ground Based Augmentation System (GBAS) from a beta system to a fully functioning navigational aid

**Project Status:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Contract with Honeywell is still in review. Additional meetings scheduled Q1 2019.

### Budget

Status Justification: Project is within budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Delay in schedule is due to stalled Contract negotiations between vendor and the Port.

Impact of delay: The delay has stalled the implementation of GBAS technology from moving forward at the airport.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

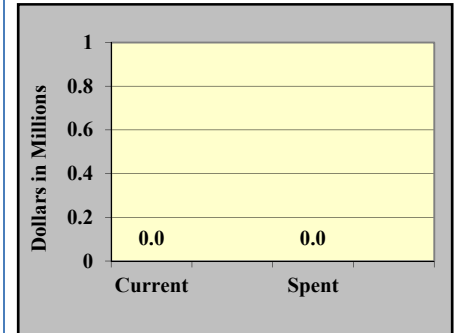
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Airfield

## Tenant Telecommunications DEMARC Upgrade

Fourth Quarter Report, 2018

**Project:** C800841  
**Estimated Budget:** \$2,815,000  
**Phase:** Design  
**Construction Start:** 5/4/2019  
**Substantial Completion:** 9/19/2021

Standardize tenant network demarcation (DMARC) packages for several existing legacy installations and vacant properties

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Currently at 90% design phase. Project scope has been refined since the 60% design to remove/add various DMARC locations based on current conditions and needs by Properties. Construction funding authorization is scheduled for March 12, 2019 Commission Meeting. Work will be executed by a Job Order Contract (JOC).

### Budget

Status Justification: On or under budget  
 Impact of exceeding budget: None identified at this time

### Schedule

Status of Justification: On or ahead of schedule  
 Impact of delay: None identified at this time

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

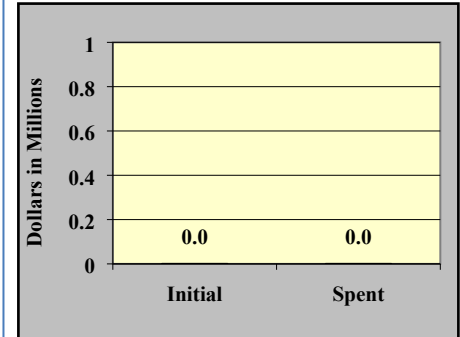
### Risks

Identifying location and extent of legacy infrastructure for removal could lead to increased scope and cost

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

**Project:** C800842  
**Estimated Budget:** \$6,935,000  
**Phase:** Construction  
**Construction Start:** 10/27/2018  
**Substantial Completion:** 9/19/2019

Replace the old 7-foot AOA fence line with the new standard height of 12-foot plus one-foot barbed wire at the top.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 7/10/2018  
*(Commission Update)*

**Significant Developments**

The project was advertised and the bid opening occurred in Q4 2018. FAA approval was received for contract award. Contract execution anticipated in Q1 2019.

**Budget**

Status Justification: The project is on budget.

Impact of exceeding budget: N/A

**Schedule**

Status of Justification: Delayed to include additional Security and TSA requested scope for the installation of non-climbable fence for high-potential intrusion areas, the replacement of gate operating systems, and the installation of security cameras at the AOA access gates. Schedule is delayed further by bid protest.

Impact of delay: With delays, construction is anticipated to start in April 2019 but the project can still be completed in 2019.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

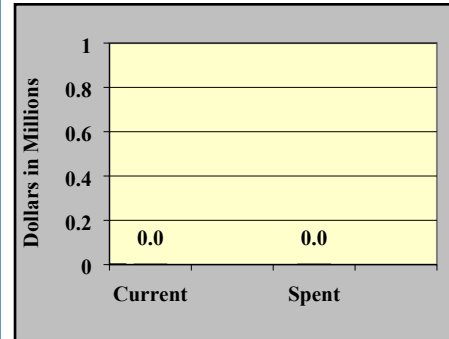
**Risks**

Airfield perimeter security must be maintained throughout fence replacements.

**Cost of Construction Growth**

N/A

**Construction Costs**



**Photos:**



## C1 Building Expansion

Fourth Quarter Report, 2018

**Project:** C800845  
**Estimated Budget:** \$50,000,000  
**Phase:** Planning  
**Construction Start:** N/A  
**Substantial Completion:** 9/29/2021

Define a project to expand the C1 building with up to four additional floors.

**Project Status – Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Continue to work on the Project Definition. Plan to return to Commission in the 2nd half of 2019.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

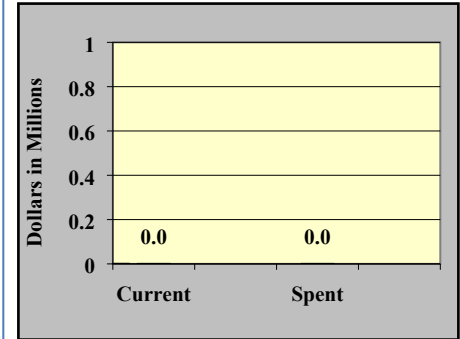
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Terminal & Tenant



## ADR Kiosk Program Expansion

Fourth Quarter Report, 2018

**Project:** C800846  
**Estimated Budget:** \$1,240,000  
**Phase:** Design  
**Construction Start:** N/A  
**Substantial Completion:** 8/13/2019

Install utilities to support (8) new ADR Kiosk locations: (6) Intermediate Kiosks and (2) Introductory Kiosks.

**Project Status – Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Infrastructure for Intermediate Kiosks complete. Introductory Kiosk permit is pending.

### Budget

Status Justification: On budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Introductory Kiosks required additional design, which delayed the schedule.

Impact of delay: None.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

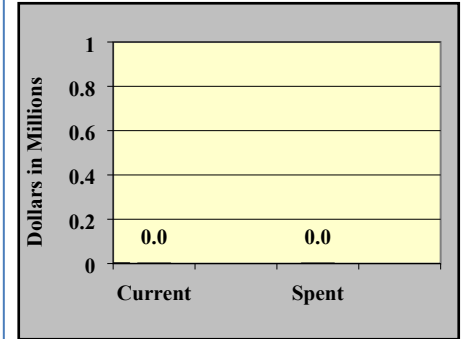
### Risks

No significant risks remain.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Terminal & Tenant

## Terminal Security Enhancements (TSE)

Fourth Quarter Report, 2018

**Project:** C800862  
**Estimated Budget:** \$12,216,000  
**Phase:** Construction  
**Construction Start:** 2/12/2018  
**Substantial Completion:** 1/8/2020

Shatter proof windows (Phase I) and security and accessibility improvements (Phase II) for the Main Terminal and Sky bridge entrances.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 1/30/2018  
*(Commission Update)*

### Significant Developments

Construction is underway for Phase I and substantial completion reached on February 11, 2019. Design is underway for Phase II and the 60% design review was completed in Q4. Potential for additional scope to be added to address sidewalk aesthetics and major maintenance concerns in Q1 2019.

### Budget

Status Justification: Project under budget, may require additional budget with additional scope.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project schedule is delayed. Phase I construction delayed due to procurement of the window film, and the removal of regulated materials. Phase II design delayed one month due to additional site investigation and base mapping requirements.

Impact of delay: No impacts identified due to schedule delay.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	4	5
Amount of CO's	\$149,835.14	\$243,060.14

Justification of CO's: Error/omission – designer, varying site condition, scope change.

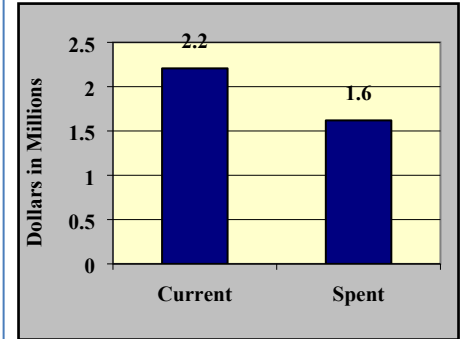
### Risks

Security and access improvements adversely impact curbside operations along Terminal curbsides.

### Cost of Construction Growth

For Phase I the current change order value is at 11.8% of original contract. The primary cause is two change orders to address varying site conditions (removal of regulated materials) for 10.7% of original contract.

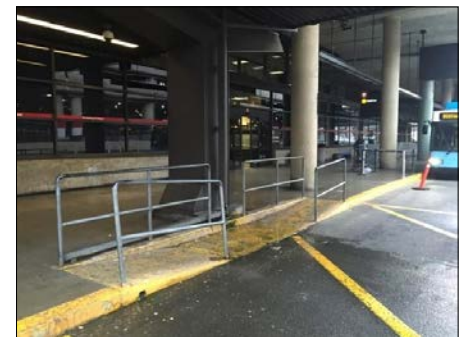
### Construction Costs



### Photos:



Shatter proofing (Phase I)



Existing Arrivals Curbside ADA Access (Phase II)

## AV-Landside

## Parking Revenue Infrastructure

Fourth Quarter Report, 2018

**Project:** C800870

**Estimated Budget:** \$22,898,000

**Phase:** Design

**Construction Start:** 6/23/2020

**Substantial Completion:** 9/5/2022

Design/construct within Parking Garage: automated parking guidance system, and Electric Vehicle Charging stations

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Technical section of the Automated Parking Guidance System Vendor RFP has been completed. Development of this system required more time than originally anticipated and is behind schedule. This schedule slip will be evaluated to determine if any of the delay can be recovered during the design or construction phase.

### Budget

Status Justification: Project is on budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: At this time the project is behind schedule by approximately 15 weeks.

Impact of delay: Delay in the opportunity for additional parking revenue.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

### Risks

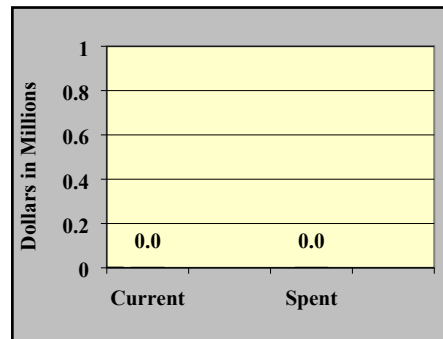
The primary goal is the installation of an automated parking guidance system that is integrated with the Parking Soft parking revenue control system and the reservations system to bring in additional parking revenue. Integrating these three parking products to reserve, track, and charge accordingly has not been accomplished in the industry yet.

### Cost of Construction Growth

N/A

## AV-Infrastructure

### Construction Costs



### Photos:



## Concourse B Gate Reconfiguration

Fourth Quarter Report, 2018

**Project:** C800873  
**Estimated Budget:** \$9,900,000  
**Phase:** Close Out  
**Construction Start:** 1/16/2017  
**Substantial Completion:** 7/21/2017

Tenant reimbursement project by Delta Air Lines to add two new gates and reconfigure four others at Concourse B.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Reopened project to purchase and install two new potable water cabinets at Gates B5 and B7. This work will be completed and the project closed by the end of Q1 2019. Work is substantially complete and gates are operational.

### Budget

Status Justification: On and/or Under budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule  
 Impact of delay: N

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

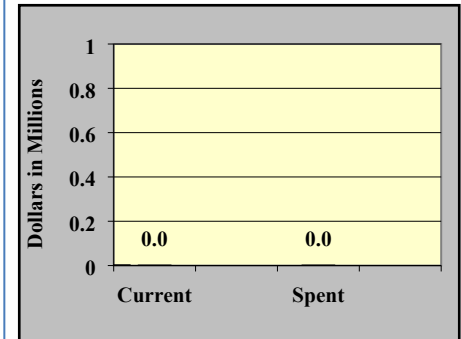
### Risks

N/A

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

## Fire Station-West Side

Fourth Quarter Report, 2018

**Project:** C800876  
**Estimated Budget:** \$5,500,000  
**Phase:** Design  
**Construction Start:** 6/25/2019  
**Substantial Completion:** 12/28/2019

Install a modular building and truck shelter to facilitate an interim Fire Station on the west side of the airport.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Project design is nearing 100% completion. Preliminary FAA approval received. Reviewing project scope developments that occurred during design to ensure the project remains within budget.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Design required additional time due to increased scope.

Impact of delay: Delayed construction may impact completion of fire truck shelter prior to inclement weather.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

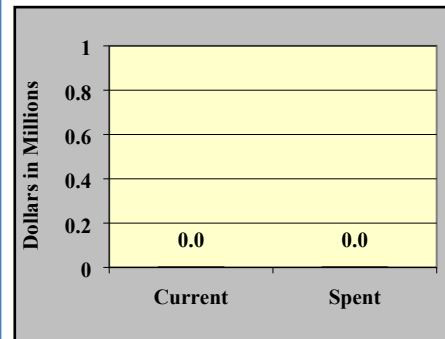
### Risks

Construction site space constraints, haul route restrictions and modular lead times.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

**Project:** C800883  
**Estimated Budget:** \$1,196,000  
**Phase:** Close Out  
**Construction Start:** 8/20/2018  
**Substantial Completion:** 12/21/2018

Prepare for occupancy approximately 4,000 SF of vacant space for Delta Air Lines Inflight Services facility using a Tenant Reimbursement Agreement

**Project Status:**  
**Schedule:** Delayed  
**Budget:** Projected Over  
**Status Reset:** [Status Reset]  
*(Commission Update)*

**Significant Developments**

Construction complete. Delta occupied in January 2019. Project is in closeout.

**Budget**

Status Justification: This project is facing a budget challenge due to construction impacts of unforeseen site conditions. Project team is evaluating next steps.

Impact of exceeding budget: This could result in a request for additional funding.

**Schedule**

Status of Justification: Schedule was delayed due to late construction start.

Impact of delay: Delta was unable to occupy the site when planned.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

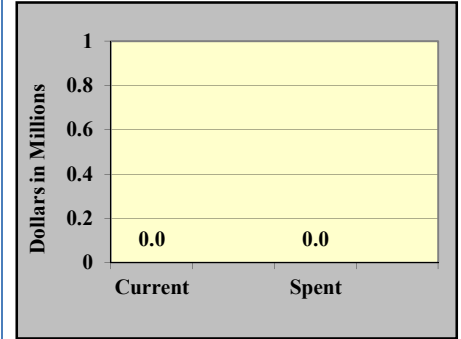
**Risks**

There were several unforeseen site conditions that impacted construction. The project team is reviewing the requests for consideration.

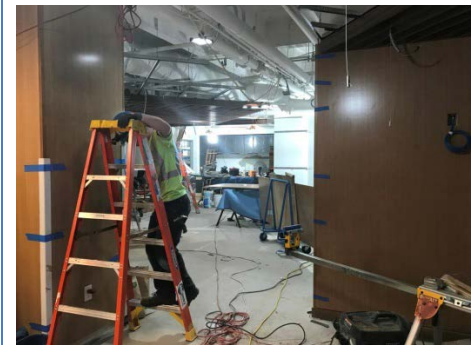
**Cost of Construction Growth**

N/A

**Construction Costs**



**Photos:**



**AV-Terminal & Tenant**

## Central Terminal Enhancements

Fourth Quarter Report, 2018

**Project:** C800886  
**Estimated Budget:** \$4,800,000  
**Phase:** Construction  
**Construction Start:** 2/8/2018  
**Substantial Completion:** 6/14/2020

Provide new passenger charging station counters, furniture, waste receptacles and electrical floor outlets in the Central Terminal

**Project Status-Const. Phase:**

**Schedule:** Delayed

**Budget:** On or Under

**Status Reset:** [Status Reset]

*(Commission Update)*

### Significant Developments

Construction and millwork fabrication has started.

### Budget

Status Justification: Under budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Delayed to align with the opening of new food service in the Central Terminal.

Impact of delay: These improvements will coincide with the re-opening of the Central Terminal.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

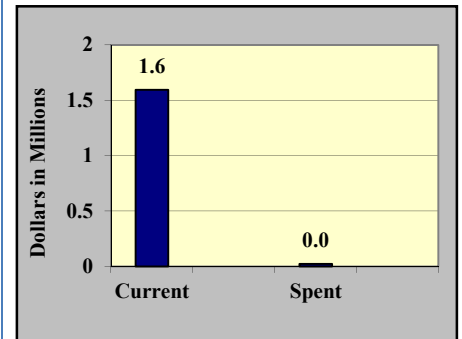
### Risks

No significant risks.

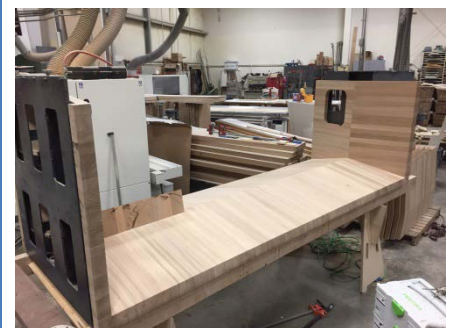
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant





## Taxiways A/B/L/Q Improvements

Fourth Quarter Report, 2018

**Project:** C800914  
**Estimated Budget:** \$47,500,000  
**Phase:** Close Out  
**Construction Start:** 12/6/2017  
**Substantial Completion:** 11/30/2018

Taxiway's A/B Reconfiguration of transition and SMGCS routes, Taxiway L Relocation and Taxiway Q partial hot spot mitigation.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 11/14/2017  
*(Commission Update)*

### Significant Developments

Project is complete. This is the final report.

### Budget

Status Justification: Project is currently on budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	13	32
Amount of CO's	\$1,519,680	\$1,749,980

Justification of CO's: Temporary ARFF road; finalization of escorting; Phase 5 Acceleration; Taxiway S reconstruction; Taxiway S – early work; additional 7-2 Ductbank; light B-171 replacement; and reconciliation of CO 26.

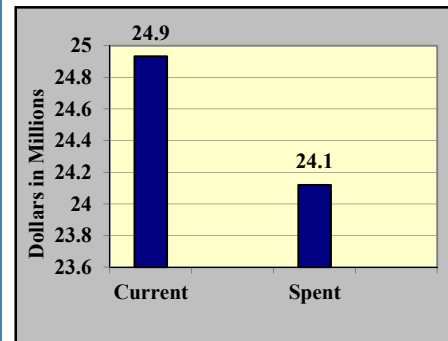
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Airfield

## Automated Screening Lanes Checkpoint Conversions

Fourth Quarter Report, 2018

**Project:** C800920  
**Estimated Budget:** \$17,000,000  
**Phase:** Construction  
**Construction Start:** 1/11/2018  
**Substantial Completion:** 12/18/2019

Procure Automated Screening Lanes for Security Checkpoints 2, 3, 5 and IAF, and installation at Security Checkpoints 2, 3 and 5.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 12/12/2017  
*(Commission Update)*

### Significant Developments

Started on the second phase of Checkpoint 2 which is planned to be completed in March 2019. Design for Checkpoint 3 is complete.

### Budget

Status Justification: Project is within budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Checkpoint 2 is now scheduled to complete Q2, delayed by infrastructure installation taking longer than planned. Checkpoint 3 is on schedule to begin installations Q3 and complete Q4.

Impact of delay: None

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

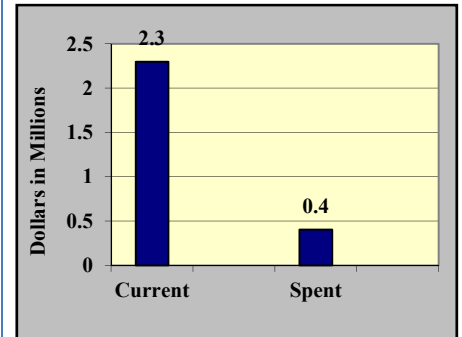
### Risks

Infrastructure installations have continued to take longer than expected.

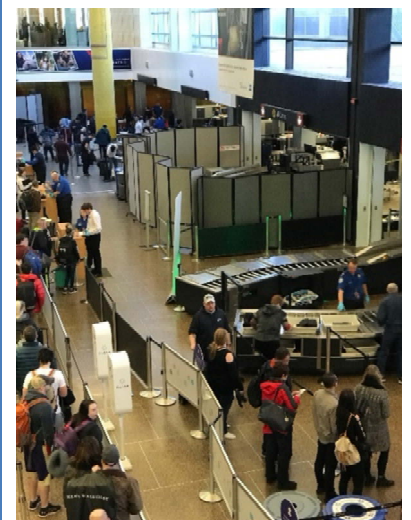
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## AV-Terminal & Tenant

**Project: C800950**  
**Estimated Budget: \$4,612,000**  
**Phase: Design**  
**Construction Start: 8/5/2019**  
**Substantial Completion: 3/30/2020**

Renovate a vacant, Port-owned cargo building for lease by FedEx.

**Project Status-Const. Phase:**  
**Schedule: N/A**  
**Budget: N/A**  
**Status Reset: N/A**  
*(Commission Update)*

## Significant Developments

The project has been on hold until the lease and Tenant Reimbursement Agreement (TRA) are signed. Expect to resume in March, with construction beginning in Q3 2019.

## Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

## Schedule

Status of Justification: Project is delayed due to lease and TRA negotiations.  
 Impact of delay: FedEx will not be able to use the renovated facility as soon as planned.

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

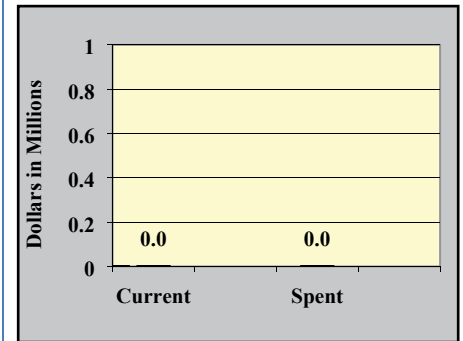
## Risks

Project team has evaluated existing conditions and accounted for risk in the budget.

## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## AV-Terminal & Tenant

## NEPL Improvements

Fourth Quarter Report, 2018

**Project:** C800957  
**Estimated Budget:** \$6,635,000  
**Phase:** Design  
**Construction Start:** 7/16/2019  
**Substantial Completion:** 11/4/2020

The North Employee Parking Lot (NEPL) opened in 1998 and is in need of upgrades including bus shelters (Phase I), pavement and underground utilities (Phase II).

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Design and construction for Phase I (bus shelters) was approved by the Commission on October 9, 2018. Plan to start on project definition in Q1 2019 for Phase II of the project which includes the pavement and underground utilities.

### Budget

Status Justification: Phase I is on budget. Phase II may require additional budget and project definition to be completed in Q2 2019.

Impact of exceeding budget: N/A

### Schedule

Status Justification: Project is on hold, awaiting new project manager

Impact of delay: None anticipated.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

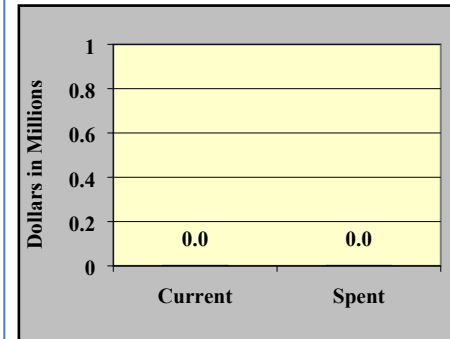
### Risks

Minimizing impacts to near-capacity parking lot operations due to construction.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



Existing NEPL Facility

## AV-Landside

## RCF Pavement Remediation

Fourth Quarter Report, 2018

**Project:** C800977  
**Estimated Budget:** \$10,637,000  
**Phase:** Design  
**Construction Start:** 4/19/2019  
**Substantial Completion:** 1/25/2020

Address pavement performance issues at the Consolidated Rental Car Facility (CRCF).

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** 7/10/2018  
*(Commission Update)*

### Significant Developments

Contractor of Record completed Bridge 2 improvements per agreement terms. Port Construction Services completed the critical area 5th Floor Topping Slab improvements. Overall scope of work for the 5th Floor Topping Slab will be greatly reduced. Design underway with the 60% Design Review completed in Q4. Potential for additional scope to be added to address site security concerns in Q1 2019.

### Budget

Status Justification: Project under currently budget  
 Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project currently on schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

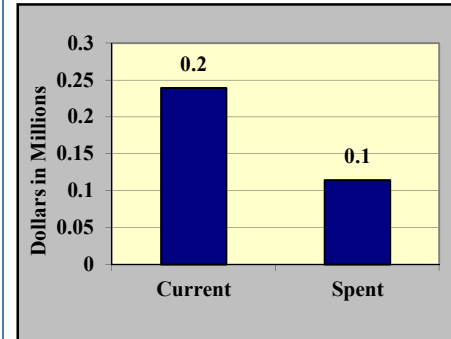
### Risks

Operational and phasing impacts due to construction.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



Consolidated Rental Car Facility

## AV-Landside

# SD Pond Bird Deterrent Improvements

Fourth Quarter Report, 2018

**Project:** C800980  
**Estimated Budget:** \$10,492,000  
**Phase:** Design  
**Construction Start:** 3/10/2019  
**Substantial Completion:** 10/5/2019

Implement a long term solution to improve the bird deterrent system. A total of 12 ponds are included.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

Plan to complete final design in Q1 2019. Request Commission Authorization for construction in Q1 2019.

## Budget

Status Justification: The project is currently on budget.

Impact of exceeding budget: N/A

## Schedule

Status of Justification: The project is currently on schedule.

Impact of delay: N/A

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

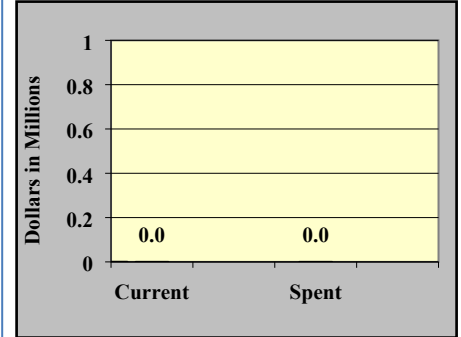
## Risks

Additional scope added due to damage caused by Q1 2019 storms could require additional budget and extend design and construction schedules.

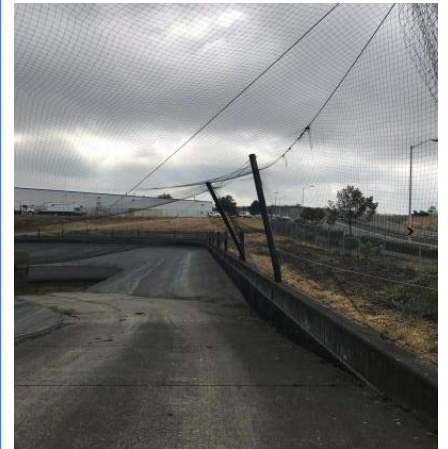
## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## AV-Airfield

## CDD & CPO Office Relocation

Fourth Quarter Report, 2018

**Project:** C800982  
**Estimated Budget:** \$2,228,000  
**Phase:** Construction  
**Construction Start:** 8/10/2018  
**Substantial Completion:** 4/30/2019

Design communications infrastructure, purchase and install furniture and communications to support the relocation of staff to SeaTac Office Center.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 11/14/2017  
*(Commission Update)*

### Significant Developments

Two user requested changes being incorporated into the site. Project otherwise complete. This is the final report.

### Budget

Status Justification: Project is within budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Schedule is delayed due to user requested changes.

Impact of delay: No impacts

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

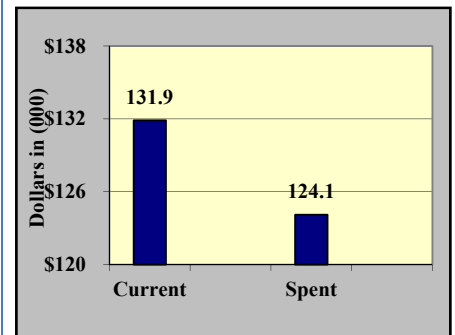
### Risks

No risks.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



### AV-Terminal & Tenant

## Concourse C Ramp Space Renovation

Fourth Quarter Report, 2018

**Project:** C800986

**Estimated Budget:** \$2,100,000

**Phase:** Construction

**Construction Start:** 7/31/2018

**Substantial Completion:** 3/22/2019

Create Leasable Space on the Ramp Level of Concourse C

**Project Status-Const. Phase:**

**Schedule:** On or Ahead

**Budget:** On or Under

**Status Reset:** 5/22/2018

*(Commission Update)*

### Significant Developments

Construction is underway.

### Budget

Status Justification: Project is within budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project is on schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	1	1
Amount of CO's	\$1,500	\$1,500

Justification of CO's: Design issue.

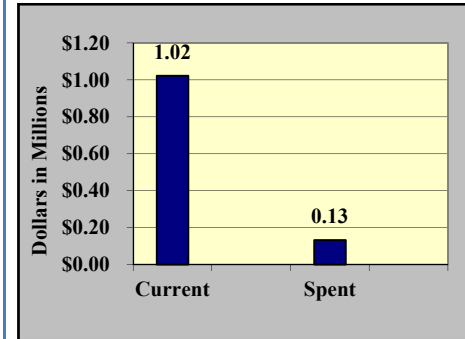
### Risks

Project will require an electrical shutdown. Project team is evaluating the impacts to the airport.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



### AV-Terminal & Tenant



**Project:** 104395, 104396  
**Estimated Budget:** 24300000  
**Phase:** Construction  
**Construction Start:** 11/14/2016  
**Substantial Completion:** 7/28/2019

Remediation of contaminated soils at Lora Lake Apartments site; Capping and filling of the Lora Lake establishing wetland area adjoining Miller Creek.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 9/13/2016  
*(Commission Update)*

**Significant Developments**

The re-design of Phase/Season 2 work on Lora Lake was submitted and approved by Department of Ecology and the Army Corp of Engineers. Based on the approval timing, it was decided to postpone Phase 2 until the summer dry season of 2019 to lower risk and costs associated with erosion control. Phase 1 Watering Plan for re-vegetation was carried out through October 2018.

**Budget**

Status Justification: Project is within budget.  
 Impact of exceeding budget: N/A

**Schedule**

Status of Justification: On hold until July 2019.  
 Impact of delay: Change Order for suspension increased cost, but still under budget.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	1	10
Amount of CO's	\$75,000.00	\$181,776.16

Justification of CO's: Suspension of Phase 2 Work until July 2019.

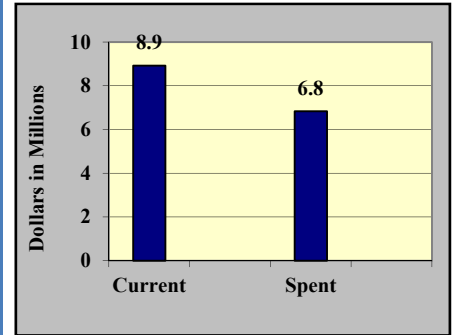
**Risks**

Significant shifts or settlement of Phase 1 fill could require additional design changes.

**Cost of Construction Growth**

N/A

**Construction Costs**



**Photos:**



## Flight Corridor Safety Program – Phase 1 Port Property

Fourth Quarter Report, 2018

**Project:** U00225  
**Estimated Budget:** \$5,806,000  
**Phase:** Construction  
**Construction Start:** 7/20/2016  
**Substantial Completion:** 10/14/2019

Removal of obstructions to navigable airspace on Port of Seattle property at Seattle-Tacoma International Airport, including extensive replanting and revegetating on-site.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 11/14/2017  
*(Commission Update)*

### Significant Developments

The invasive species removal was completed and replanting is underway at Site P-4.

### Budget

Status Justification: The project is currently on budget.

Impact of exceeding budget: N/A

### Schedule

Status of Justification: The replanting at P-5 is delayed until Q4 2019 to effectively treat invasive species in Q2/Q3 with replanting starting again in the Q4 planting season.

Impact of delay: The delay will result in effective invasive species removal and more favorable seasonal conditions for the replanting.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	3	27
Amount of CO's	\$35,000	\$924,438.57

Justification of CO's: Removal of non-compostable debris/garbage; Unforeseen varying site conditions; Hazard trees – Limb removal, tree falling, and tree and removal.

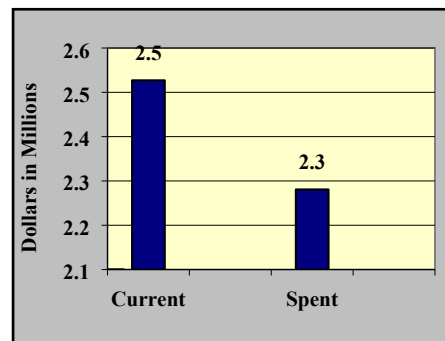
### Risks

Inclement weather during construction could cause delays.

### Cost of Construction Growth

N/A

### Phase 1 A&B Construction Costs



### Photos:



## AV-Airfield

## Highline Schools Noise Insulation

Fourth Quarter Report, 2018

**Project:** C200007  
**Estimated Budget:** \$101,797,000  
**Phase:** Construction  
**Construction Start:** 1/1/2003  
**Construction Completion:** 12/31/2027

Highline School Insulation Agreement was intended to provide funding for sound insulation for 15 schools that are impacted by aircraft noise from Sea-Tac Airport.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Port funds authorized for availability when the FAA, the State of Washington, and the Highline School District (HSD) provide matching funds. HSD passed a bond for the construction of Des Moines Elementary and Highline High School. FAA funding mechanism was provided in 2018 through the National Defense Authorization Act. Construction commenced at Des Moines Elementary in 2018 and will commence at Highline High School in 2019.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: Project delayed due to the inability of HSD to successfully pass a voter approved bond.

Impact of delay: Completion of all schools in the Agreement has been significantly delayed.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

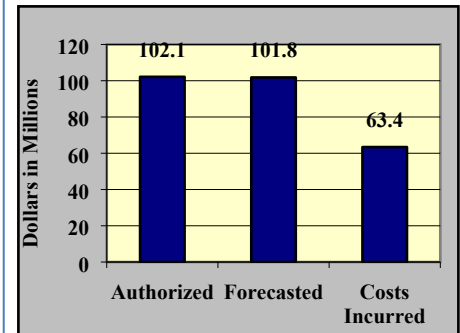
### Risks

The current availability of FAA AIP funding

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Noise

## Single-Family Sound Insulation

Fourth Quarter Report, 2018

**Project:** C200094  
**Estimated Budget:** \$7,855,000  
**Phase:** Construction  
**Construction Start:** 2/1/2018  
**Substantial Completion:** 12/31/2020

Provides sound insulation improvements to approximately 100 potentially eligible homes located within the Noise Remedy Boundary for Sea-Tac Airport.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

The Noise Office has received 48 completed applications to date. The Port's design and construction management firm, C&S Engineers, completed FAA-required noise testing at 41 homes in 2018. 36 homes were found to have interior noise levels of at least 45 dB and continued in the process. Eleven homeowners delayed or dropped out of the program and 25 remain in process. It is anticipated that a small number of additional potentially eligible homeowners may come forward during the process. The design process and ordering of materials is taking place. Construction began in February 2019 on the first group of homes.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

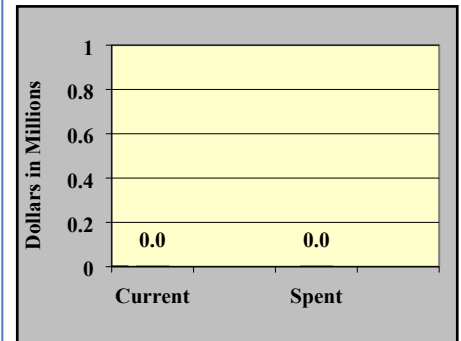
### Risks

The program is subject to homeowners being available during key stages of the process. Homes may have existing issues that may delay construction. Lead-time for the availability of sound-rated materials can be substantial.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## AV-Noise

## Condominium Sound Insulation

Fourth Quarter Report, 2018

**Project:** C200095  
**Estimated Budget:** \$20,000,000  
**Phase:** Planning  
**Construction Start:** 12/1/2019  
**Substantial Completion:** 12/31/2021

Provides sound insulation improvements to 3 potentially eligible condo complexes (240 units) located within the Noise Remedy Boundary for Sea-Tac Airport.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

After receiving Commission approval in 2018, we are in the process of procuring a design and construction management firm. Anticipate procurement in Q1 2019. Program design and homeowner outreach will begin in Q2, and construction will begin at the first complex in Q4 2019.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status of Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

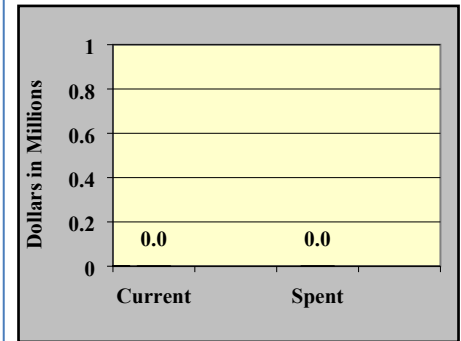
### Risks

The program may be subject to the approval of applicable condominium associations. Lead-time for the availability of sound-rated materials can be substantial. Structural conditions of the buildings are unknown. The buildings are subject to an FAA-required noise audit of 45 dB or higher interior noise level to qualify. FAA grant funding is not guaranteed.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

AV-Noise

## Tenant Reimbursement

Fourth Quarter Report, 2018

**Project:** C800154  
**Estimated Budget:** \$6,709,577  
**Phase:** Construction  
**Construction Start:** N/A  
**Substantial Completion:** N/A

Reimburse tenants for costs that are normally a landlord responsibility, ex: upgrade space to leasable condition, or correct code deficiencies on a tenant construction project.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

There are a couple of active tenant reimbursements under this CIP: Commissary buildout on Concourse B and a reimbursement to Delta Airlines for conversion of shell space on the bridge level of Concourse A near gates A1/A2 into leasable office space.

### Budget

Status Justification: Project remains on budget

Impact of exceeding budget: As this is an allowance CIP, budget is dependent upon the projects proposed by the tenant, and the Port's approval of those as Eligible Tenant Improvements, for which the Port will reimburse the tenant.

### Schedule

Status of Justification: As this is an allowance CIP, schedules are dependent on tenant project schedules.

Impact of delay: There currently is not a deadline for when this allowance CIP will end.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

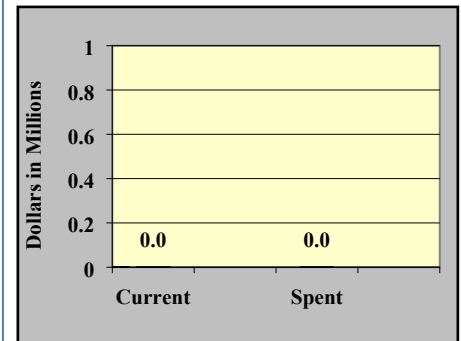
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## Shilshole Bay Marina Paving

Fourth Quarter Report, 2018

**Project:** C800355  
**Estimated Budget:** \$2,000,000  
**Phase:** Construction  
**Construction Start:** 8/1/2018  
**Substantial Completion:** 6/1/2020

Repave areas of Shilshole Bay Marina not rehabilitated in the 2004 major capital redevelopment. Full depth replacement in some failed areas and extensive pavement grinding and overlay.

**Project Status-Const. Phase:**  
**Schedule:** Projected Delay  
**Budget:** On or Under  
**Status Reset:** 11/14/2017  
*(Commission Update)*

### Significant Developments

Contract for restrooms and paving advertised and bids opened July 2018. Apparent low bidder substantially over Engineer's Estimate (33% higher). Reduced scope alternative with increased budget request returning to Commission Q1 2019

### Budget

Status Justification: Budget is on or under, including return to Commission for additional funding.

Impact of exceeding budget: N/A

### Schedule

Status Justification: Bids coming in over Engineer's estimate has delayed this work in order to evaluate alternatives, request additional budget, and re-advertise the work.

Impact of delay: Approximately eight months of delay.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

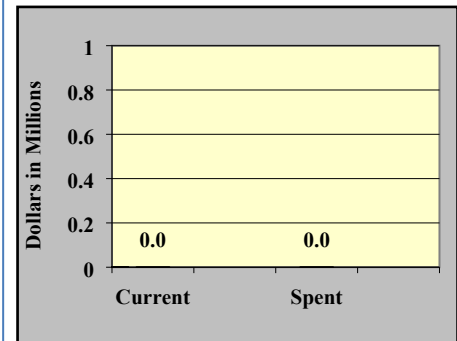
### Risks

Work tied with Restroom schedule. Phasing and coordination will be critical on active marina parking areas. Contract includes phasing requirements to limit parking impacts.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Maritime

## Shilshole Tenant Service Buildings

Fourth Quarter Report, 2018

**Project:** C800356  
**Estimated Budget:** \$10,100,000  
**Phase:** Design  
**Construction Start:** 8/1/2018  
**Substantial Completion:** 6/1/2020

Replace/rehabilitate five restrooms and laundry facilities at Shilshole Bay Marina by June 2017.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Contract for restrooms and paving advertised and bids opened July 2018. Apparent low bidder substantially over Engineer's estimate 33% higher). Reduced scope alternative with increased budget request returning to Commission Q1 2019

### Budget

Status Justification: Budget is on or under, including return to Commission for additional funding

Impact of exceeding budget: N/A

### Schedule

Status Justification: Bids coming in over Engineer's estimate has delayed this work in order to evaluate alternatives, request additional budget, and re-advertise the work.

Impact of delay: Approximately 8 months of project delay.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

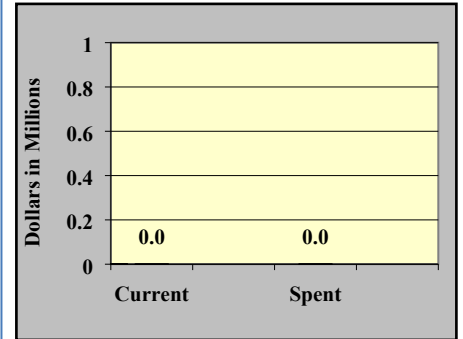
### Risks

Schedule and phasing the work in an active site continue to be the primary risks. Construction costs in Seattle continue to be increasing and volatile which may continue to lead to higher than expected bids.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:





## SBM Pad Site Development

Fourth Quarter Report, 2018

**Project:** C800445  
**Estimated Budget:** \$500,000  
**Phase:** Planning  
**Construction Start:** 9/1/2018  
**Substantial Completion:** 3/31/2020

Provide utility extensions to support tenant development of new restaurant on pad site by Duke's

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Identified site utilities. Coordinating initial schedule with Duke's team.

### Budget

Status Justification: Project forecast within budget.

Impact of exceeding budget: N/A

### Schedule

Status Justification: Schedule dependent on tenant development which is currently at 30% design level. Current target is to have restaurant open for Q2 2020.

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

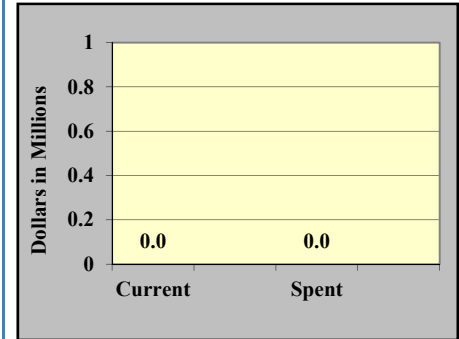
### Risks

Existing utility extensions must be closely coordinated with tenant construction schedule and surrounding work.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## Maritime

## FT Gateway Building

Fourth Quarter Report, 2018

**Project:** C800525 / U00412  
**Estimated Budget:** \$3,530,000  
**Phase:** Design  
**Construction Start:** 8/3/2020  
**Construction Completion:** 5/2/2022

Demolish Net Sheds 7 & 8 and the C-12 Bank Building; construct new Gateway Building and associated site improvements

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Project was approved in the 2019 Capital Plan. Additional design funding was authorized at the January 22, 2019 Commission meeting.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status Justification: On schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

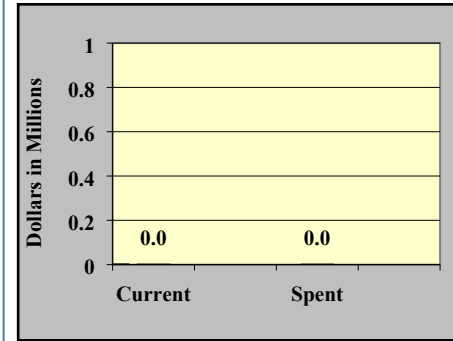
### Risks

None

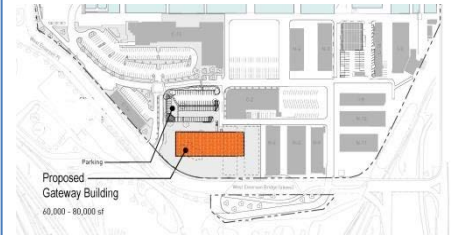
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## FT Docks 3, 4, and 5 Fixed Pier Improvements

Fourth Quarter Report, 2018

**Project:** C800531

**Estimated Budget:** \$6,400,000

**Phase:** Design

**Construction Start:** 4/9/2019

**Substantial Completion:** 2/28/2020

Wrap the existing steel piling with Jackets and install Cathodic corrosion protection on all piling on Docks 3, 4 and 5.

**Project Status-Const. Phase:**

**Schedule:** N/A

**Budget:** N/A

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Design and permitting are currently underway. Schedule has been revised to accommodate installation of the Piling Wraps and protections in 2019. Commission Authorization to Advertise and Bid will be requested in Q1 2019.

### Budget

Status Justification: Project will be under budget due to utilizing economical piling wraps.

Impact of exceeding budget: N/A

### Schedule

Status Justification: Project may be delayed due to permit issuance from the Feds. (Previous furlough delayed permitting processing).

Impact of delay: Impact would be a delay in the overall installation of the piling while the fishermen are away in late June of 2019.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

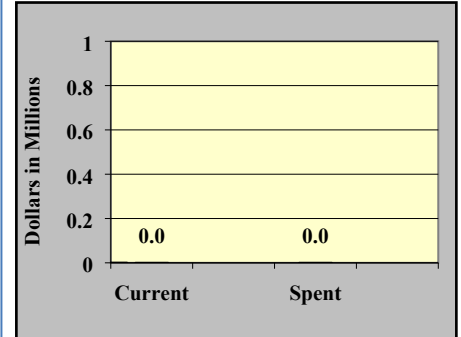
### Risks

Permit issuance delays and conditions, Facility Operations impacts and Stray voltage.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Maritime

**Project:** C800895  
**Estimated Budget:** \$4,000,000  
**Phase:** Design  
**Construction Start:** 7/1/2019  
**Substantial Completion:** 10/11/2019

Remove and replace the 13 outfall pipes and tides gate from the last downstream manhole to the outlet

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Construction of Phase I during the previous quarter. Design of Phase II started with the expected design completion at the end of March and bid advertisement in April. Phase II Construction is expected to start in July. The work will focus on five outfalls at the South end of the Terminal. The work will be similar to Phase I with three small works packages, Dock and Pile for access, High Density Polyurethane Foam (HDPF) contract to seal the joints and fill voids around the pipes, and a Cure in Place Pipe (CIPP) contract to reline the pipes.

**Budget**

Status Justification: Project is on budget

Impact of exceeding budget: n/a

**Schedule**

Status Justification: Project is on Schedule

Impact of delay: N/A

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	3
Amount of CO's	\$0	\$32,662

Justification of CO's: None

**Risks**

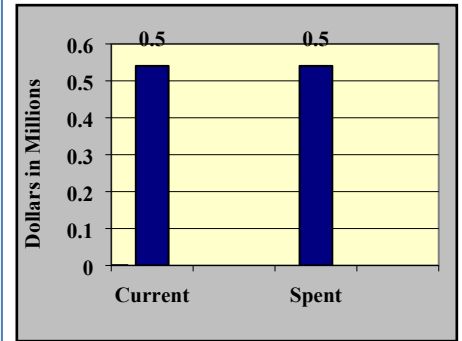
Major project risk remain the unknown condition of the outfall that have not been videoed yet as well as the unknown voids that may be encountered

**Cost of Construction Growth**

N/A

**Maritime**

**Construction Costs**



**Photos:**



## T-91 Standoff Barges

Fourth Quarter Report, 2018

**Project:** C800910  
**Estimated Budget:** \$1,100,000  
**Phase:** Close Out  
**Construction Start:** 11/21/2017  
**Construction Completion:** 6/20/2018

Procure five additional cruise standoff barges to replace the existing unifloats and complement the existing fleet of ten purchased in 2012-14 currently in use Terminal 91

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 9/12/2017  
*(Commission Update)*

### Significant Developments

Five barges fabricated and deployed for the 2018 cruise season. Project in closeout. This will be the final report.

### Budget

Status Justification: Project complete within budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: Project Complete on schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

### Risks

An addition of a sixth barge to procurement order would use all of existing authorization, with very little contingency remaining.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## FT Maritime Innovation Center

Fourth Quarter Report, 2018

**Project:** C801084  
**Estimated Budget:** \$10,500,000  
**Phase:** Planning  
**Construction Start:** 1/1/2020  
**Construction Completion:** 12/31/2121

Renovation of existing Ship Supply Building into new Maritime Innovation Center.

**Project Status-Const. Phase:**  
**Schedule:** Projected Delay  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Going to commission for additional design funding April 9, 2019

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: Project delayed due to 2019 Capital Planning finalization

Impact of delay: Higher cost due to Seattle construction market inflation

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

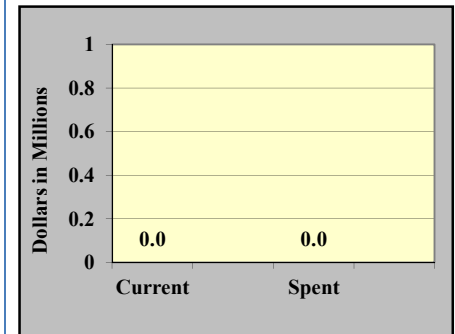
### Risks

Project cost inflation due to delays

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Maritime

**Project:** E104324, E104535-38  
**Estimated Budget:** 2900000  
**Phase:** Implementation  
**Construction Start:** N/A  
**Substantial Completion:** N/A

Participate in the design & construction of the bored tunnel, N. & S. portals, Holgate to King St, Central Waterfront surface streets, & related projects to ensure adequate connection to port facilities.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

Tunnel opened for traffic in early February following several celebration events. Demolition of Viaduct began and will be completed in phases over the next few months. Month-to-month lease of P46 by WSDOT ended following completion of repairs to underdock sprinkler system. WSF continued using P48 for ferry queue during Colman Dock construction. Construction continued on Pier 62, Early Utility Work, and Colman Dock. Central Waterfront construction is expected to begin in 2019 following Viaduct demolition. Colman Dock construction to continue through 2023.

## Budget

Status Justification: N/A  
 Impact of exceeding budget: N/A

## Schedule

Status Justification: N/A  
 Impact of delay: N/A

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's:

## Risks

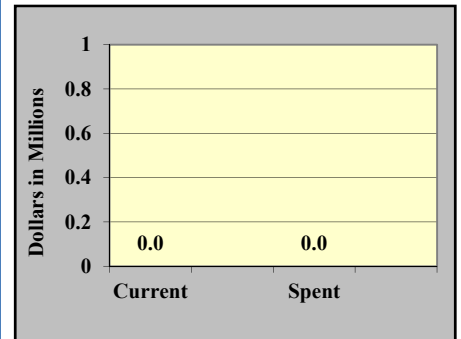
None

## Cost of Construction Growth

N/A

## Maritime

## Construction Costs



## Photos:



Phasing plan for Viaduct demolition



Runners celebrating tunnel opening



Viaduct demolition

# P66 Alaskan Way Street Improvements

Fourth Quarter Report, 2018

**Project:** U00218  
**Estimated Budget:** \$1,657,000  
**Phase:** Close Out  
**Construction Start:** 10/9/2017  
**Substantial Completion:** 4/13/2018

Widen a segment of Alaskan Way in the vicinity of the Bell Street Cruise Terminal to improve traffic flow and safety during cruise days.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Construction Complete)*

## Significant Developments

The improvements have been in use for one cruise season and the project is in the close-out phase. Seattle City Light and Department of Transportation invoices have been reconciled. This is the final report

## Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

## Schedule

Status Justification: On schedule  
 Impact of delay: N/A

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

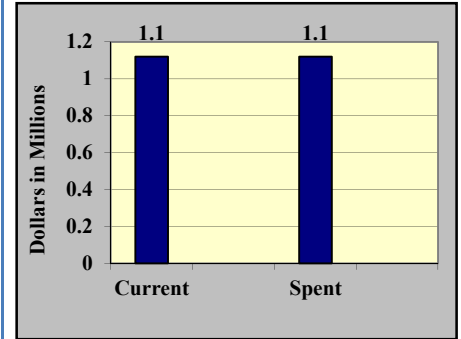
## Risks

None. Construction is complete and project is being closed-out.

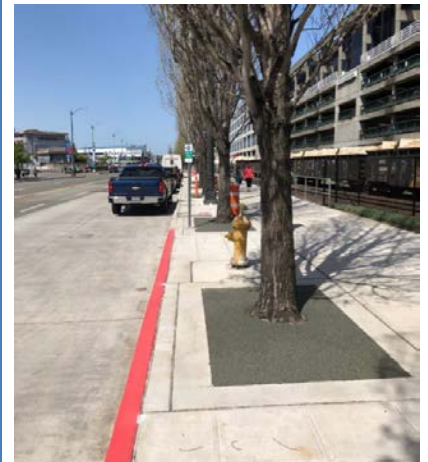
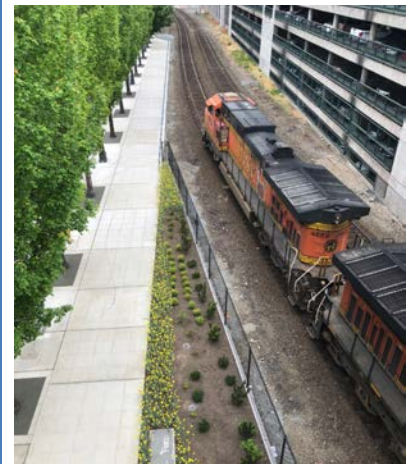
## Cost of Construction Growth

N/A

## Construction Costs



## Photos:



## Maritime



## P69 Commission Chamber Refresh

Fourth Quarter Report, 2018

**Project:** C800887  
**Estimated Budget:** \$394,000  
**Phase:** Construction  
**Construction Start:** 1/15/2018  
**Construction Completion:** 3/27/2019

Replace acoustic ceiling. Replace existing light fixtures with new LED fixtures. Replace carpet and misc. aesthetic improvements.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Some design changes based on unknown ceiling conditions. Construction is well underway, tracking to scheduled and within budget.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status Justification: On Schedule  
 Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: N/A

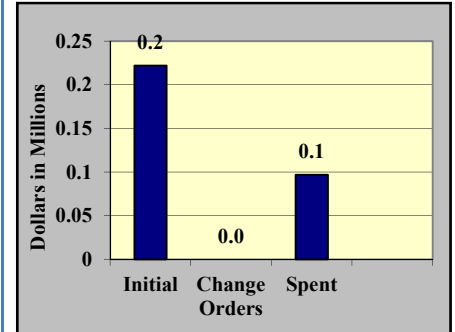
### Risks

None

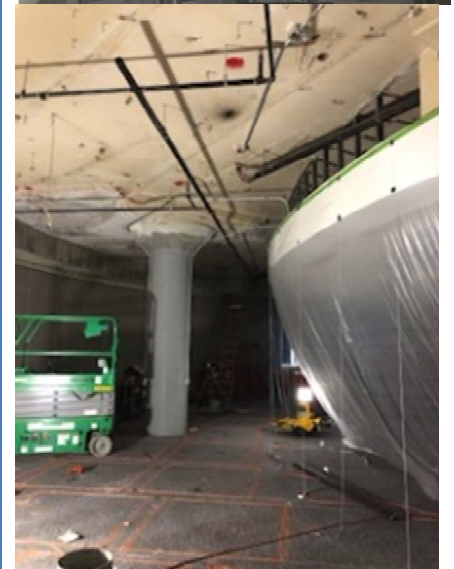
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Economic Development

## P69 Solar Panel System

Fourth Quarter Report, 2018

**Project:** C800888  
**Estimated Budget:** \$515,000  
**Phase:** Construction  
**Construction Start:** 2/6/2019  
**Substantial Completion:** 3/29/2019

Design and build a roof-mounted 100K kWh/yr photovoltaic (PV) solar system at Pier 69 on the sloped, metal-clad portion of the roof.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** 12/12/2017  
*(Commission Update)*

### Significant Developments

Shoreline Master Use Permit Variance permit was received in January. Puget Sound Solar has started work on site to install the solar panels.

### Budget

Status Justification: Even with the delay caused by permitting, project is still on track to be on budget.

Impact of exceeding budget: N/A

### Schedule

Status Justification: Project was delayed by four months, due to the Shoreline Master Use Permit variance requirement by the City. Current substantial completion date is projected to be in April.

Impact of delay: No cost impact; we will still meet Department Commerce grant deadline

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	1
Amount of CO's	\$0	\$0

Justification of CO's: None

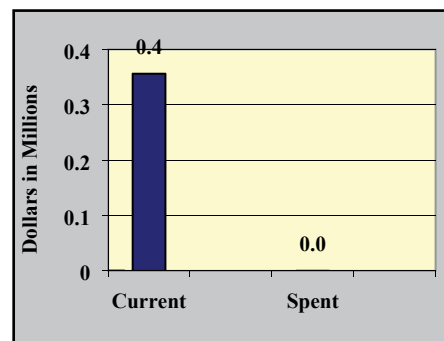
### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Economic Development

## P66 Interior Modernization

Fourth Quarter Report, 2018

**Project:** C800889  
**Estimated Budget:** \$11,000,000  
**Phase:** Design  
**Construction Start:** 12/2/2019  
**Substantial Completion:** 5/31/2019

Modernize the interior of the P66 Conference Center facility to better support the needs of our customers for the foreseeable future.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Author.)*

### Significant Developments

Sixty percent design, inclusive of way finding signage package was completed in October and permit set submitted to Seattle Department of Construction and Inspections on January 8, 2019. Forecast construction to start late Q4 2019 to minimize impacts to conference center operations.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status Justification: On schedule  
 Impact of delay: N/A

### Change Order

	Current Quarter	Project Total
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

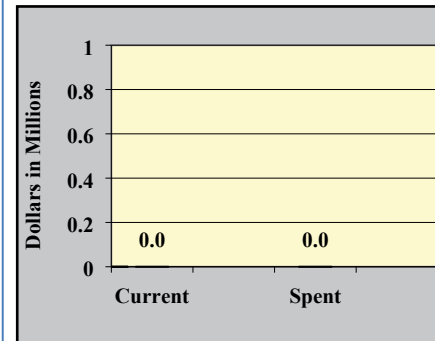
### Risks

Potential budget impacts associated with the robust economy, increased materials and labor price escalations, and together with other risk factors, will continue to be identified and carefully monitored as the project progresses through final design. City of Seattle's initial feedback on design questions were incorporated in the building permit submittal set but final review outcome may result in higher total project costs.

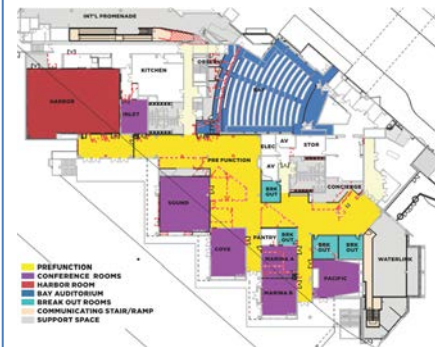
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



## Economic Development

## Street Vacations T-5 and T-18

Fourth Quarter Report, 2018

**Project:** C102858, C102875  
**Estimated Budget:** 5300000  
**Phase:** Implementation  
**Construction Start:** N/A  
**Construction Completion:** N/A

Street vacation related real estate negotiations and agreements – Terminal 5, and Terminal 18

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

T-18 Work: City is working on legislation to vacate the streets to the Port, with expected completion of early 2019. T-5 Street Vacation - Working with Port and Port Stormwater District to resolve approach to negotiating terms for the Longfellow Creek Overflow Line that bifurcates Terminal 5. City is scheduled to vacate streets on Harbor Island in late 2018 or early 2019, depending on the legislative calendar at City Council. T-5 Street vacation is planned for completion at end of year 2019

### Budget

Status Justification: N/A  
Impact of exceeding budget: N/A

### Schedule

Status Justification: N/A  
Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	2
Amount of CO's	\$0	\$20,390.33

Justification of CO's:

### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs

Not Applicable

### Photos:



### Joint Venture

## Argo Yard Truck Roadway

Fourth Quarter Report, 2018

**Project:** C800546, E104751, E104754  
**Estimated Budget:** \$7,750,000  
**Phase:** Construction  
**Construction Start:** 3/3/2014  
**Substantial Completion:** 6/28/2019

New POS owned freight truck roadway between East Marginal Way and Colorado Avenue South right-of-way.

### Project Status-Const. Phase:

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Construction of UPRR's Element III (Argo freight yard Automated Gate System improvements) nearly completed. First FMSIB reimbursement funds claim, from UPRR, reviewed and submitted by POS to WSDOT accordingly.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status Justification: Element III construction completion delayed by Union Pacific RR to 2019.

Impact of delay: None

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	34
Amount of CO's	\$0	\$408,681

Justification of CO's: None

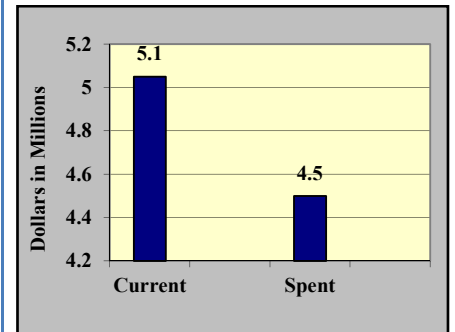
### Risks

No significant risks at this time

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## Joint Venture

## T-46 Permit Mitigation

Fourth Quarter Report, 2018

**Project:** C800620-U00064  
**Estimated Budget:** 1,250,000  
**Phase:** Design  
**Construction Start:** 1/1/2019  
**Substantial Completion:** 11/30/2019

Construct overwater public access pedestrian pier to comply with permit requirement in operation of T-46.

**Project Status-Const. Phase:**  
**Schedule:** N/A  
**Budget:** N/A  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Continue to wait for Trustee approval. Authorization for construction funds will be requested in Q2 2020

### Budget

Status Justification: on budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: Start of construction has been delayed due to not receiving trustee approval and Corp permit

Impact of delay: potential out of permit condition compliance for T46 container operation

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

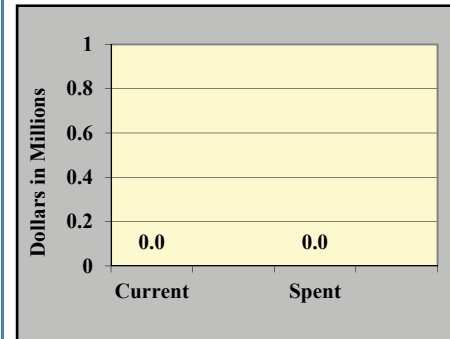
### Risks

Potential risk of T-46 container operation due to permit condition out of compliance.

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

## Joint Venture

## East Marginal Way Grade Separation

Fourth Quarter Report, 2018

**Project:** E102007  
**Estimated Budget:** \$56,256,171  
**Phase:** Close Out  
**Construction Start:** 1/5/2009  
**Substantial Completion:** 5/31/2011

FAST Corridor funded project; FHWA, State, City with Port commitment of \$22,480,807. Construct grade separation in vicinity of T5 and T18 to minimize truck traffic/rail conflicts. Applicable properties & easements to be conveyed by POS to City.

### Project Status-Const. Phase:

**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

Amended T102 Lot Boundary Adjustment documents recorded with King County. Environmental indemnity language, within electrical and stormwater easement documents, finalized between POS and City of Seattle legal staff. Final (revised per City review) documents to be submitted to City in Q4 2018 and final approval by City Council and Port Commission to be completed by Q2 2019.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: Properties and easements conveyance to City of Seattle taking longer than anticipated

Impact of delay: Delay in City taking legal ownership of EMWGS structure

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	97
Amount of CO's	\$0	\$1,922,967

Justification of CO's: None

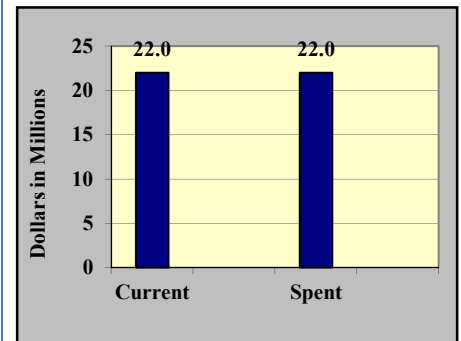
### Risks

No significant risks at this time

### Cost of Construction Growth

N/A

### Construction Costs



### Photos:

None

### Joint Venture

## Terminal 5 Pile Removal

Fourth Quarter Report, 2018

**Project:** U00289  
**Estimated Budget:** \$6,800,000  
**Phase:** Implementation  
**Construction Start:** 9/28/2017  
**Substantial Completion:** 2/12/2018

Demolish existing timber piers 23, 24, 25, and 26 and Shipway north of the Inner Harbor Line. Demolition of existing steel sheet pile to the existing mud line, regrade site and install rip-rap.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** 6/13/2017  
*(Commission Update)*

### Significant Developments

All work is complete with exception of the four steel piles required by tribes. Pile installation is pending completion of Lockheed superfund cleanup.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	7
Amount of CO's	\$0	\$573,730

Justification of CO's:

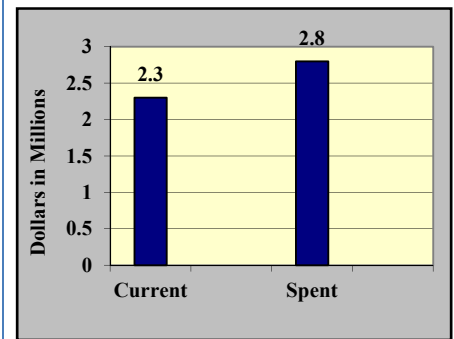
### Risks

None

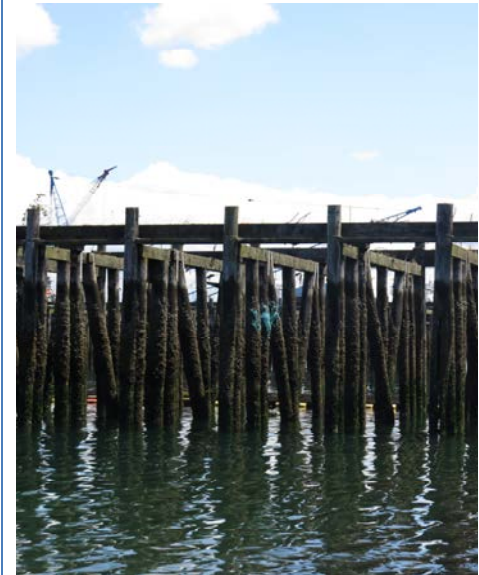
### Cost of Construction Growth

Discretionary: Grading change, additional clear/grub, additional top soil, and 90 tons of drain rock. Varying Site Conditions: Crane rail treated wood support piling, underwater template pile removal, and additional pile length.

### Construction Costs



### Photos:



Piles prior to removal.

### Joint Venture



## Parking System Replacement

Fourth Quarter Report, 2018

**Project:** C800728  
**Estimated Budget:** \$5,500,000  
**Phase:** Implementation  
**Construction Start:** 1/6/2015  
**Substantial Completion:** 4/1/2020

Replacement of the Airport Main  
Garage Parking System

**Project Status-ICT PHASE:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

New system was deployed on original schedule in Q4 2017. Original vendor, ParkingSoft was purchased by T2 just prior to implementation. T2 is now recommending a move to a merged ParkingSoft/T2 product in 2019 to provide new features with less risk. While critical features will still be delivered in Q1 2019 with the ParkingSoft product, planning is in progress to deliver remaining features in 2020 with the new system.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: The purchase of ParkingSoft company has delayed the schedule as the new vendor has struggled to support and enhance an unfamiliar product.

Impact of delay: While most features have been delivered, there are small remaining issues that require manual work-arounds from AV Operations which impact resource efficiency.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	3
Amount of CO's	\$0	\$232,632

Justification of CO's: None

### Risks

While the move to the new system promises new features and a more robust vendor support team, there will likely be issues that may delay the planned Q1 2020 implementation.

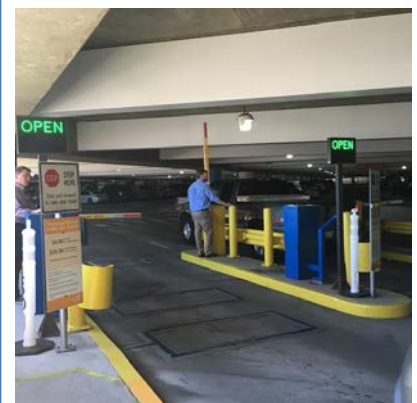
### Cost of Construction Growth

N/A

### Construction Costs

\$525,000

### Photos:



## Vessel Moorage System

Fourth Quarter Report, 2018

**Project:** C800729  
**Estimated Budget:** \$550,000  
**Phase:** Implementation  
**Construction Start:** 1/12/2016  
**Substantial Completion:** 12/30/2019

Implementation of a vessel moorage system to support marina and terminal operations.

**Project Status-ICT Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

Implementation is in progress for a planned 4nd quarter 2019 deployment

### Budget

Status Justification: On budget  
Impact of exceeding budget: N/A

### Schedule

Status Justification: System procurement and vendor resources have significantly delayed implementation.  
Impact of delay: Current system continues to support Marina Operations. Delays will impact expected efficiencies.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

### Risks

Vendor could delay implementation schedule due to resource constraints

### Cost of Construction Growth

N/A

### Construction Costs

Not Applicable

### Photos:



## Corporate

**Project:** C800747  
**Estimated Budget:** \$1,000,000  
**Phase:** Implementation  
**Construction Start:** 12/14/2016  
**Substantial Completion:** 10/1/2019

Development of a project delivery system initially for construction projects. System will replace two legacy systems.

**Project Status-Const. Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

First planned deliverable completed in August 2018. Development is currently in progress on remaining features. PCS, PMG, and Engineering plan to transition as beneficial features are available for their operations.

**Budget**

Status Justification: On budget  
 Impact of exceeding budget: N/A

**Schedule**

Status Justification: Functionality is being delivered every few months starting in Q3 2018 but features for optimum business value will not be completed until Q1 and Q2 2019.

Impact of delay: Current systems support organization operations. Efficiencies not available until more features are available.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

**Risks**

None

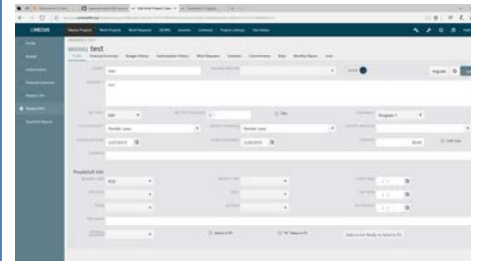
**Cost of Construction Growth**

N/A

**Construction Costs**

Not Applicable

**Photos:**



**Project:** C800748  
**Estimated Budget:** \$1,200,000  
**Phase:** Close Out  
**Construction Start:** 1/12/2016  
**Construction Completion:** 8/1/2018

Build out of the remote data center to support automated backup and recovery

**Project Status:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Infrastructure procurement and deployment has been completed to support automated backup and recovery. Completing application migration to the new infrastructure.

**Budget**

Status Justification: On budget  
 Impact of exceeding budget: N/A

**Schedule**

Status Justification: Delayed due to complexities identified  
 Impact of delay: Continuing risk of system interruption due to major event.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

**Risks**

Not Applicable at this time.

**Cost of Construction Growth**

N/A

**Construction Costs**

Not Applicable

**Project:** C800782  
**Estimated Budget:** \$2,920,000  
**Phase:** Implementation  
**Start:** 8/9/2017  
**Completion:** 5/30/2020

Procurement and implementation of an upgraded informational display system for the Airport trains and stations.

**Project Status-ICT Phase:**  
**Schedule:** Delayed  
**Budget:** Projected Over  
**Status Reset:** 3/26/2019  
*(Commission Update)*

**Significant Developments**

New display system has been fully installed, new displays have been installed in all stations except the STS North Loop and the B Concourse Elevators, and most trains are now integrated with the new system. Some unexpected requirements and work environment situations require additional budget to complete signage installation.

**Budget**

**Status Justification:** Due to unexpected requirements and work environment situations, an additional \$285,000 is required to complete signage installation. We will request additional budget at the March 26, 2019 Commission meeting.

**Impact of exceeding budget:** Funding of additional budget will be transferred from an underrun of the AV IC Small Capital CIP resulting in no change to capital forecast. Work has been put on hold until funding is secured.

**Schedule**

**Status Justification:** Additional funding approvals will delay completion of the final construction elements.

**Impact of delay:** Delay in installation of new signage.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

**Risks**

None

**Cost of Construction Growth**

N/A

**Construction Costs**

Not Applicable

**Photos:**



## Checkpoint Wait Time

Fourth Quarter Report, 2018

**Project:** C800790  
**Estimated Budget:** \$1,215,000  
**Phase:** Implementation  
**Construction Start:** 7/12/2016  
**Substantial Completion:** 5/30/2019

Procure and implement an automated system to track movement and estimate wait times for checkpoints 2 through 5.

**Project Status:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

### Significant Developments

System has been fully installed at Checkpoints 2, 4, and 5. Checkpoint 3 sensor installation will be coordinated with other construction in the same area, likely in Q2 2019.

### Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

### Schedule

Status Justification: Coordination with other projects in the same area has delayed sensor installation at Checkpoint 3.

Impact of delay: Automated wait times are not available for Checkpoint 3.

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	1
Amount of CO's	\$0	\$73,370

Justification of CO's: None

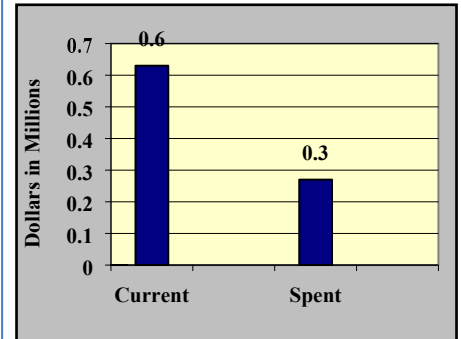
### Risks

Required construction costs are significantly higher than originally estimated prior to procurement of the selected system. This may require additional funding to complete all planned checkpoints. Coordination with other projects at Checkpoint 3 may delay schedule. TSA queue reconfigurations are making it difficult to program wait time system

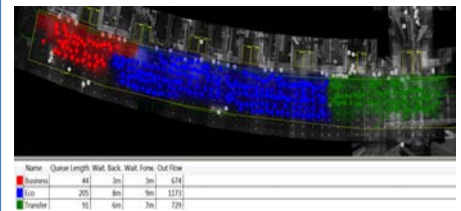
### Cost of Construction Growth

N/A

### Construction Costs



### Photos:



# SeaTac Smartphone App

Fourth Quarter Report, 2018

**Project:** C800800  
**Estimated Budget:** \$500,000  
**Phase:** Close Out  
**Construction Start:** 2/23/2016  
**Substantial Completion:** 10/15/2018

Develop a Mobile app with SeaTac Maps, Retail, Dining, and Service Options, and other important customer service features.

**Project Status:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

iOS mobile application was deployed in Q3 2018 and has been downloaded by approximately 48,000 individuals. The Android version of the Sea-Tac mobile application was deployed in December 2018 to complete the project.

## Budget

Status Justification: On budget  
 Impact of exceeding budget: N/A

## Schedule

Status Justification: Issues with blue dot navigation in the iOS application delayed development  
 Impact of delay: Delay in feature release.

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

## Risks

None

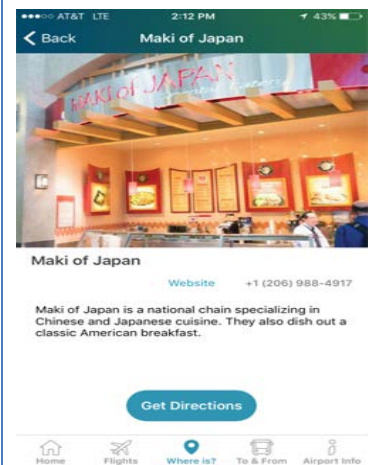
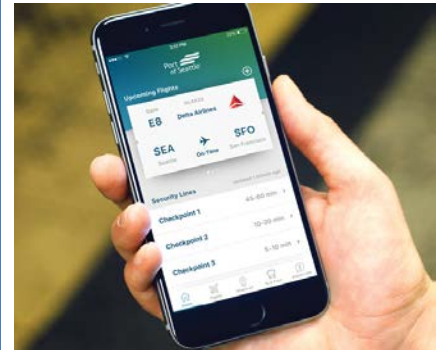
## Cost of Construction Growth

N/A

## Construction Costs

Not Applicable

## Photos:



## Corporate

**Project:** C800907  
**Estimated Budget:** \$800,000  
**Phase:** Implementation  
**Construction Start:** 7/11/2017  
**Substantial Completion:** 3/31/2019

Provide an integrated supplier outreach and procurement solution that utilizes vendor provided systems for outreach with a Port-developed solution for procurement management.

**Project Status:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Development is currently in progress.

**Budget**

Status Justification: On budget  
 Impact of exceeding budget: N/A

**Schedule**

Status Justification: On schedule  
 Impact of delay: N/A

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

**Risks**

None

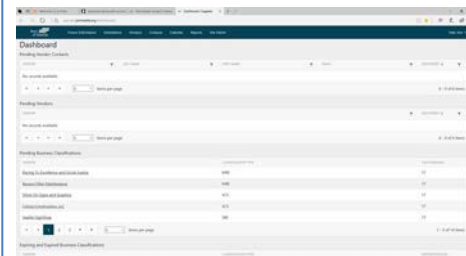
**Cost of Construction Growth**

N/A

**Construction Costs**

Not Applicable

**Photos:**





**Project:** C800909  
**Estimated Budget:** \$3,600,000  
**Phase:** Implementation  
**Construction Start:** 12/12/2017  
**Substantial Completion:** 9/30/2019

Upgrade of the Port’s PeopleSoft Financials System.

**Project Status-ICT Phase:**  
**Schedule:** Delayed  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Testing is in progress for a June 2019 Deployment.

**Budget**

Status Justification: On budget  
Impact of exceeding budget: N/A

**Schedule**

Status Justification: Due to stability issues with the last planned test phase, a new test phase has been added to the schedule after a 3-month business hiatus to focus on year-end closeout activities.  
Impact of delay: While still within approved budget, contingency will be used to accommodate additional schedule activities.

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO’s	1	1
Amount of CO’s	\$510,000	\$510,000

Justification of CO’s: Vendor significantly underestimated work to complete upgrade during initial contract. This amendment gets vendor implementation assistance closer to Port budgeted amount.

**Risks**

None

**Cost of Construction Growth**

N/A

**Construction Costs**

Not Applicable

**Project:** C800929  
**Estimated Budget:** \$1,055,000  
**Phase:** Construction  
**Construction Start:** 6/27/2017  
**Substantial Completion:** 3/31/2019

Procure a fleet tracking system and provide next bus displays for passengers, voice paging, wireless access, and music at all pick up locations.

**Project Status-Const. Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

**Significant Developments**

Fleet tracking system has been deployed and is operational in Port buses. Operational processes are being developed to fully utilize the new features. Signage implementation is in progress.

**Budget**

Status Justification: On budget  
 Impact of exceeding budget: N/A

**Schedule**

Status Justification: On schedule  
 Impact of delay: N/A

**Change Order**

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	1	1
Amount of CO's	\$40,000	\$40,000

Justification of CO's: Add new features for automated passenger counting and voice control.

**Risks**

None

**Cost of Construction Growth**

N/A

**Construction Costs**

**Not Applicable**

## Radio System Upgrade

Fourth Quarter Report, 2018

**Project:** C801012

**Estimated Budget:** \$14,800,000

**Phase:** Design

**Construction Start:** 4/24/2018

**Substantial Completion:** 3/31/2020

Upgrade key components of the Port's Radio System including subscriber equipment, tower site equipment, hardware and software.

**Project Status-ICT Phase:**

**Schedule:** On or Ahead

**Budget:** On or Under

**Status Reset:** N/A

*(Commission Update)*

### Significant Developments

End user equipment has been purchased and is currently being installed. Design is in progress for site upgrades and the team has successfully completed Factory Acceptance Testing of new core equipment.

### Budget

Status Justification: On budget

Impact of exceeding budget: N/A

### Schedule

Status Justification: On schedule

Impact of delay: N/A

### Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	\$0
Amount of CO's	\$0	\$0

Justification of CO's: None

### Risks

None

### Cost of Construction Growth

N/A

### Construction Costs

Not Applicable

### Photos:



## Corporate

# Airport Building Controls System Upgrade

Fourth Quarter Report, 2018

**Project:** C801027  
**Estimated Budget:** \$890,000  
**Phase:** Planning  
**Construction Start:** 7/24/2018  
**Substantial Completion:** 3/31/2020

Upgrade of the airport-wide central building controls software

**Project Status-ICT Phase:**  
**Schedule:** On or Ahead  
**Budget:** On or Under  
**Status Reset:** N/A  
*(Commission Update)*

## Significant Developments

Contract signed. Planning and design in progress.

## Budget

Status Justification: On budget  
Impact of exceeding budget: N/A

## Schedule

Status Justification: On schedule  
Impact of delay: N/A

## Change Order

	<u>Current Quarter</u>	<u>Project Total</u>
# of CO's	0	0
Amount of CO's	\$0	\$0

Justification of CO's: None

## Risks

No significant risks at this time

## Cost of Construction Growth

N/A

## Construction Costs

Not Applicable

Corporate