Project construction dates are tentative and subject to change.
ORIGINAL SEAWALL

- Voids and Gribble damage to timber seawall elements
- Major Utilities in Alaskan Way
- Deteriorating sheet pile wall
- 1934 fill
- Liquefiable soils
- Non-Liquefiable soils

Seawall
NEW SEAWALL

“Zee” panel

Sidewalk panel (LPS)

Face panel

Cast in place slab

Jet grout
NEW SEAWALL
WATER MANAGEMENT
NEW SEAWALL
NEW SEAWALL
WATERFRONT SEATTLE PROGRAM
CONNECTING THE CITY TO THE BAY
PEOPLE PLACES
QUIET SPACES
FUNDING SOURCES

- Philanthropy: $100M
- Local Improvement District (LID): est. $200M
- Public funding: $388M
  - State funding: $193M
  - City funding: $195M

**TOTAL:** $688M

*Does not include WSDOT-funded Marion Street Pedestrian Bridge over Alaskan Way (pending future agreement)*
FUNDING

- Real estate excise tax - $20M
- Other City revenues - $19M
- PC-1 North bonds - $34M
- Other sources (TBD) - $27M
- Voter-approved Seawall bond - $9M
- WA State grants - $3M
- Park District Funds - $4M
- Local Improvement District (LID) - est. $200M
- WSDOT funding - $190M*

TOTAL = $688M

*Does not include WSDOT-funded Marion Street Pedestrian Bridge over Alaskan Way (pending future agreement)
CONSTRUCTION SCHEDULE

2017
PIKE PLACE MARKETFRONT
SEAWALL REBUILD

2018
PIER 62/63 REBUILD & HABITAT IMPROVEMENTS
EARLY WORKS
Utility relocations

2019
ALASKAN WAY VIADUCT DEMOLITION
MAIN CORRIDOR
Alaskan Way, Elliott Way, Columbia St, Seneca St, Lenora St and Promenade
New Alaskan Way open
EAST/WEST CONNECTIONS
Bell St, Union St, Pioneer Square Street Improvements and Pike and Pine Streetscape Improvements

2020
OVERLOOK WALK
WATERFRONT PARK
MARION STREET BRIDGE
Joint project between City and State; construction schedule is approximate

2021
AQUARIUM OCEAN PAVILION
Potential early work
Potential completion

2022

2023

2024

NOTE: Construction dates subject to change pending: A. completion dates of new SR-99 tunnel and demolition of the Alaskan Way Viaduct; B. ongoing construction sequencing evaluation and assumptions for all projects
TYPICAL CROSS SECTION
ALASKAN WAY
PROMENADE
CENTRAL PUBLIC SPACES
PROPERTY ACQUISITIONS

WATERFRONT SEATTLE
RIGHT-OF-WAY MAP:
Permanent Acquisitions
OVERLOOK WALK
OVERLOOK WALK BRIDGE
OVERLOOK WALK
ELLIOTT WAY BRIDGE
EAST-WEST CONNECTIONS
EMERGENCY PREPAREDNESS
Planning and Design Phase

• Typically, the City does not physically build its own projects, an independent contractor is hired

• Standard contract language includes all safety regulations and insurance requirements

• During design phase, the project team:
  o Coordinates with agency partners and stakeholders
  o Does preliminary traffic control planning
  o Incorporates unique constraints into contract
WATERFRONT CONSTRUCTION: COMMITMENTS

• Provide access through waterfront area for all modes (transit, freight, bicycles, pedestrians, cars)
• Provide access to businesses and residents, including emergency response
• Maintain major utilities service and reliability
• Maintain railroad, port cruise ships, and ferry operations
• Coordinate work zones and detour routes with all projects
• Ensure construction sequencing balances the needs of all projects in the waterfront area
EMERGENCY PREPAREDNESS

Construction Phase

• Contractor is required to submit work plans and documentation for approval by the City, such as:
  o Long term and short term work schedules
  o Documentation of all materials that will be used
  o Safety plan
  o Traffic control plans

• City evaluates all documents to ensure compliance with contract requirements
EMERGENCY PREPAREDNESS

Construction Phase

• City inspects all work by the contractor to ensure compliance with contract requirements

• Safety is addressed through verbal communication first, then written documentation, then formal notification to Washington State Department of Labor and Industries

• Anything found to be non-compliant is rejected
EMERGENCY PREPAREDNESS
Construction Phase

• If there is a major safety hazard, the City notifies the contractor to stop working until the issue is remedied
• Both the City and contractor have safety managers
• Most incidents are resolved by the project team within the project site and do not affect the City as a whole
For large scale incidents that affect more than just the project site, departmental resources are activated:

- Traffic Operations Center
- Emergency operations room/team

Set up a command structure to manage emergency response

Many plans have already been developed, such as a Continuity of Operations Plan

Seattle Department of Transportation participates in City-wide emergency operations/response efforts
• The big picture
• Emergency preparedness and safety during construction
The viaduct was built in the early 1950’s

Columns reinforced after 2001 earthquake
Projects already COMPLETED

### South-end replacement
- Electrical line relocation: 2008-2009
- Holgate to King (Stage 1): 2009-2009
- Holgate to King (Stage 2): 2010-2012
- Holgate to King (Stage 3): 2012-2014

### SR 99 tunnel
- SR 99 tunnel main contract: 2011-2019
- SR 99 Connections: 2018-2019
- South Access – Surface Street Connections: 2019-2020
- South Access (S. Dearborn Street off-ramp): 2016-2017
- South Access (drilled shafts): 2014-2014

### Miscellaneous projects
- Trager Building demolition: 2007-2007
- Viaduct column stabilization near Yesler Way: 2007-2008
- WOSCA Building demolition: 2009-2009
- Pier 48 warehouse demolition: 2010-2010
- Automated viaduct closure gates: 2010-2011
- Western Building structural work: 2011-2017
- SR 99 south-end fiber replacement: 2011-2011
- Alaskan Way widening: 2012-2012
- Cedarstrand Building demolition: 2012-2012
- SR 99 Demolition, Decommissioning and Surface Street: 2019-2020
- New Alaskan Way: 2019-2023

### Mitigation projects
- SR 519 Phase 2: 2008-2010
- Spokane Street Viaduct Fourth Ave. off-ramp: 2008-2010
- I-5 active traffic management: 2009-2010
- I-5 active traffic management sign bridges: 2009-2009
- I-5 travel time signs: 2009-2009
- City street intelligent transportation systems: 2009-2010
- SR 99 intelligent transportation systems: 2010-2011
- Enhanced transit/demand management: 2010-2014
- Parking mitigation for central waterfront: 2011-2019

---

1. Per City of Seattle’s Waterfront Seattle schedule
2. Per Seattle Tunnel Partners’ most recent schedule
3. Partially funded by the state
4. Per 2014 legislation, additional mitigation funding is being provided by WSDOT from funds outside the AWV Program

✅ = completed project  ❋ = in progress
Final product:

SR 99 TUNNEL

Tunnel features:

• Two 11-foot lanes in each direction
• 8-foot and 2-foot shoulders
• Modern safety and traffic systems
• No mid-tunnel entrances or exits
TODAY’S FOCUS

• The big picture
• Emergency preparedness and safety during construction
**Design-Build** – A method of project delivery in which the owner executes a single contract with one entity (the Design-Builder) for design and construction services to provide a finished product.

**VS.**

**Design-Bid-Build** – Traditional approach for delivery of transportation projects in which the owner completes the design and accepts the lowest responsive bid for construction from qualified contractors.
Why use DESIGN-BUILD?

**Schedule:** Faster project delivery

**Completion cost:** Better predictability of final cost at the onset

**Risk management:** Strategic risk distribution and control

**Expertise:** Optimize design for preferred means/methods
2.29.10.2 Emergency Access

The Design-Builder shall work with emergency service providers and develop an Emergency Access Plan for the various Work zones within the Project. The Emergency Access Plan shall address the concerns of emergency service providers about emergency access to and through the Project. This may include installing gates to allow emergency personnel to access the Project area.

The Design-Builder shall allow WSDOT Maintenance and all affected Local Agencies access to the Project Site to respond to urgent safety concerns.
WSDOT verifies completed work in the tunnel with the contractor

2.9.4 WSDOT’s Responsibilities

Program Communications will retain primary responsibility for the following communications tasks, ***although the Design-Builder may assist WSDOT in completing these tasks at WSDOT’s request:

- Maintaining the SR 99/Alaskan Way Viaduct Replacement Program Communications Plan and the SR 99/Demolition, Decommissioning, and Surface Street Project Communications Plan.
Surveyor inspects the viaduct as the tunneling machine passes beneath the structure
How to REACH US

Website:
www.AlaskanWayViaduct.org

Twitter:
@BerthaDigsSR99

Email:
viaduct@wsdot.wa.gov

Hotline:
1-888-AWV-LINE

SR 99
@BerthaDigsSR99

Bertha completed her dig and now we’re completing the work to replace the Alaskan Way Viaduct. WSDOT feed for construction and demolition updates.
Office of Emergency Management

We partner with the community to prevent, prepare for, respond to, mitigate the impacts of, and recover from disasters.

Korean Delegation Visit
June 18 & 25, 2018
Emergency Response

Response Units → Dispatch Center

City EOC → Department Command & Control

Mutual Aid

Multiple Departments Involved
Coordination Needed

City of Seattle
Construction / Transportation Incidents

- Fire Department
  - Heavy Rescue
  - Confined Space
  - Hazardous Material
  - Mass Casualty
- Transportation
  - Traffic Cameras
  - Traffic Signals
  - Message Signs
  - Heavy Equipment
  - Barricades
Triggers & Steps

- Other Resources
- Managing the Media
- Public Notifications & Warning
Life Safety Response
Protective Measures
Role of the Emergency Operations Center

1. Coordinate Information
2. Coordinate Resources
3. Develop Plans of Action
4. Make Policy Decisions
Emergency Operations Center Structure
Managing the Impacts

- Roads / Transit Impacts & Status
- Public Safety Impacts
- Electrical, Gas, Utilities Impacts & Status
- Communication Impacts & Status
- Shelters Status
- Medical & Hospital Impacts & Status
- Buildings Safety & Status
Notifications & Public Warning

How Does It Work?

1. EMERGENCY OCCURS
2. CITY SENDS ALERT TO AFFECTED AREA
3. RECEIVE ALERT BY TEXT MESSAGE, E-MAIL OR VOICE MESSAGE
4. STAY INFORMED!

Alert from Seattle DOT, there is a major traffic disruption at Aurora Ave N at Lynn St, for details: [www.twitter.com/sdottraffic/](http://www.twitter.com/sdottraffic/)

AlertSeattle-DOT: The major traffic disruption at Aurora Ave N at Lynn St has cleared, for details: [www.twitter.com/sdottraffic/](http://www.twitter.com/sdottraffic/)
Lessons Learned – After Action Reports
Community Outreach & Education

Prepare yourself

Prepare your family
- Prepare your home
- Prepare your neighborhood
- Prepare your workplace
- Prepare your school
- Prepare your child care center

Training and workshops

Access & Functional Needs

Multilingual Resources

translated Infographics:
- English
- Amharic
- Arabic
- Chinese Simplified
- Chinese Traditional
- Korean
- Somali
- Spanish
- Thai
- Tigrinya
- Vietnamese

Skills Specific Training

Skill specific training

- English
- Amharic
- Arabic
- Chinese Simplified
- Chinese Traditional
- Korean
- Somali
- Spanish
- Thai
- Tigrinya
- Vietnamese

Prepare yourself

Being prepared for any emergency is as simple as planning ahead. This begins with thinking about your daily activities, the people you care for or who rely on you, and how a disaster would change the way you get things done. Use the information in this section to learn how to plan for your own safety and needs, along with those of your family and pets. If someone in your family relies on special equipment or medications make sure your planning includes how to make sure those special needs will be dealt with.

Learn how to get prepared for disasters by viewing the infographic below. You can also print a fillable disaster plan template.

BE PREPARED

BUILD A KIT

Keep a Kit

Family

Emergency

Prepare your home

Prepare your neighborhood

Prepare your workplace

Prepare your school

Prepare your child care center

Disaster Skills Workshop

Disaster Skills Workshop is a 6-week program offering training on key skills needed after a disaster and more in-depth instruction on how preparedness actors perform. Participants will travel through four stations, each lasting 30 minutes. The workshop covers the following topics:

- Fire Extinguisher Use
- Utility Disconnect
- Water Storage and Purification
- Emergency Communication

Registration is required for this station. View the upcoming trainings page to see when the next class is offered.

Disaster Skills Basic Aid

Learn how to care for and respond to injuries after a major disaster such as an earthquake or a flood. The session provides practice on how to recognize and treat the three most common injuries. How to provide patient assessment and how to use a variety of household items as first aid materials. **Course does not meet requirements for first aid certification.** View the upcoming trainings page to see when the next training is offered.

Disaster Skills Light Search and Rescue

This training provides an overview of light search and rescue skills level. Learn to identify residents and more techniques to help those around them in need. This Workshop covers rescue safety, basic search techniques, and basic rescue techniques. View the upcoming trainings page to see when the next workshop is offered.

Earthquake Home Retrofit Classes

Introductory class provides information for disaster survivors or those who want to become educated consumers on how to structurally secure your home. Participants will complete a seismic retrofit on the city's standard plan set and the permit process. View the upcoming trainings page to see when the next class is offered.

Home Retrofit Contractor Training Seminar

The Washington Association of Building Officials (WABO) hosts a one-day seminar for contractors on how to complete a seismic retrofit on the city's standard plan set. This seminar is scheduled based on demand. If you are a contractor interested in being notified when the next class is offered, contact WABO at person@wabo.org. Once they have established sufficient interest, they will work to schedule a class.

Disaster Skills Series

Disaster Skills Series

Disaster Skills Basic Aid

Learn how to care for and respond to injuries after a major disaster such as an earthquake or a flood. The session provides practice on how to recognize and treat the three most common injuries. How to provide patient assessment and how to use a variety of household items as first aid materials. **Course does not meet requirements for first aid certification.** View the upcoming trainings page to see when the next training is offered.

Disaster Skills Light Search and Rescue

This training provides an overview of light search and rescue skills level. Learn to identify residents and more techniques to help those around them in need. This Workshop covers rescue safety, basic search techniques, and basic rescue techniques. View the upcoming trainings page to see when the next workshop is offered.
Laurel Nelson
Deputy Director
Office of Emergency Management

Laurel.nelson@seattle.gov
206-233-5075
www.seattle.gov/emergency-management