



ELLIOTT BAY SEAWALL PROJECT

Seattle City Council

**Central Waterfront, Seawall and Alaskan Way
Viaduct Replacement Program Select Committee**

December 8, 2014

TODAY'S AGENDA

1. Season 1 update
2. Season 2 underway
3. Outreach
4. Season 2.5 coming up
5. Project risks
6. Next steps



SCHEDULE PROGRESS



| | % Complete | 2013 | | | 2014 | | | | 2015 | | | | 2016 | | | |
|--|------------|------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|
| | | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| Early Work Pre-Season 1 | 100% | █ | | | | | | | | | | | | | | |
| S. of Colman Dock Season 1 | 90% | | | █ | █ | █ | █ | █ | | | | | | | | |
| Pike to Madison Season 2 | 20% | | | | | | █ | | █ | █ | | | | | | |
| Madison to Yesler Season 2.5 | | | | | | | | | █ | █ | █ | █ | █ | █ | | |
| Virginia to Pike Season 3 | | | | | | | | | | | | | █ | █ | █ | |
| Total | 15% | | | | | | | | | | | | | | | |

We are here

BY THE NUMBERS



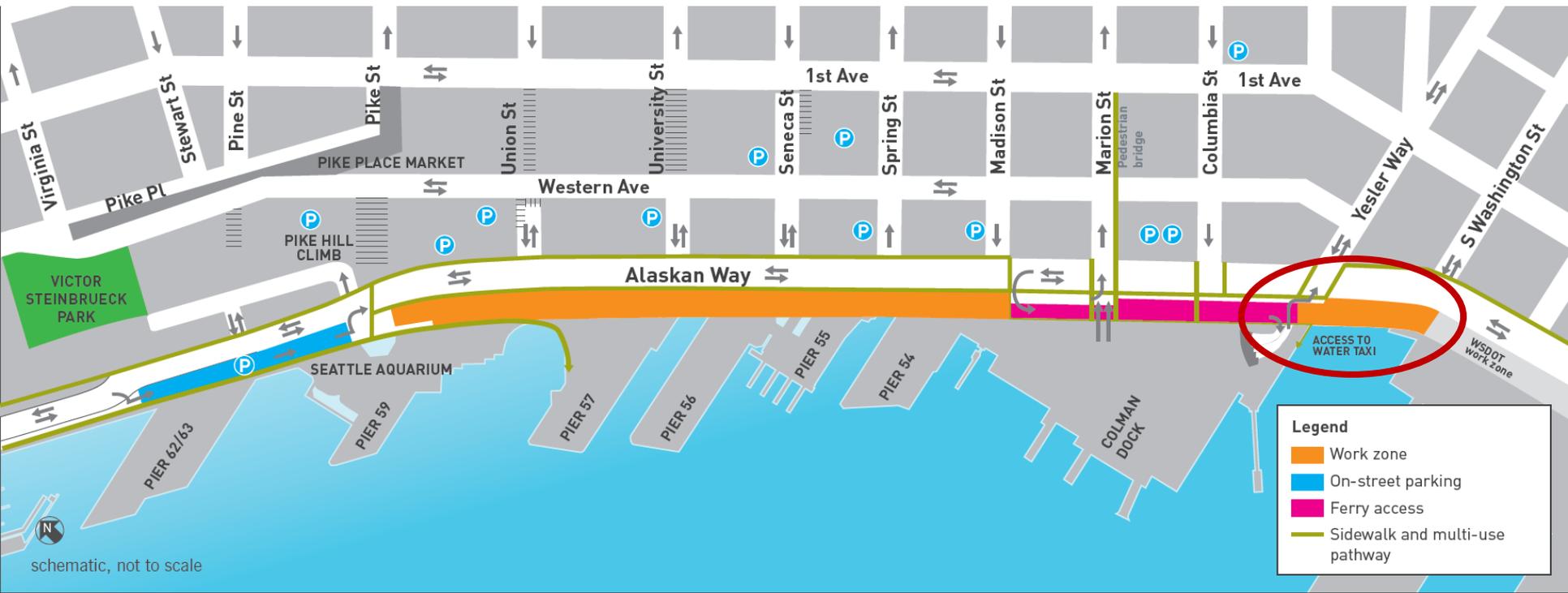
- **12.5** months of construction = **54** weeks or **325** work days
- **253,227** total labor hours
- **899** contractor submittals to date
- **Community Workforce Agreement + Workforce Diversity**
 - **14%** women (12% goal)
 - **27%** people of color (21% goal)
 - **19%** distressed zip codes (15% goal)
 - Journey-level women workers performed nearly **11% of all project work hours – double the percentage of past city projects**
 - As of November 20, **25% of first-tier subcontractor construction payments went to WMBEs**



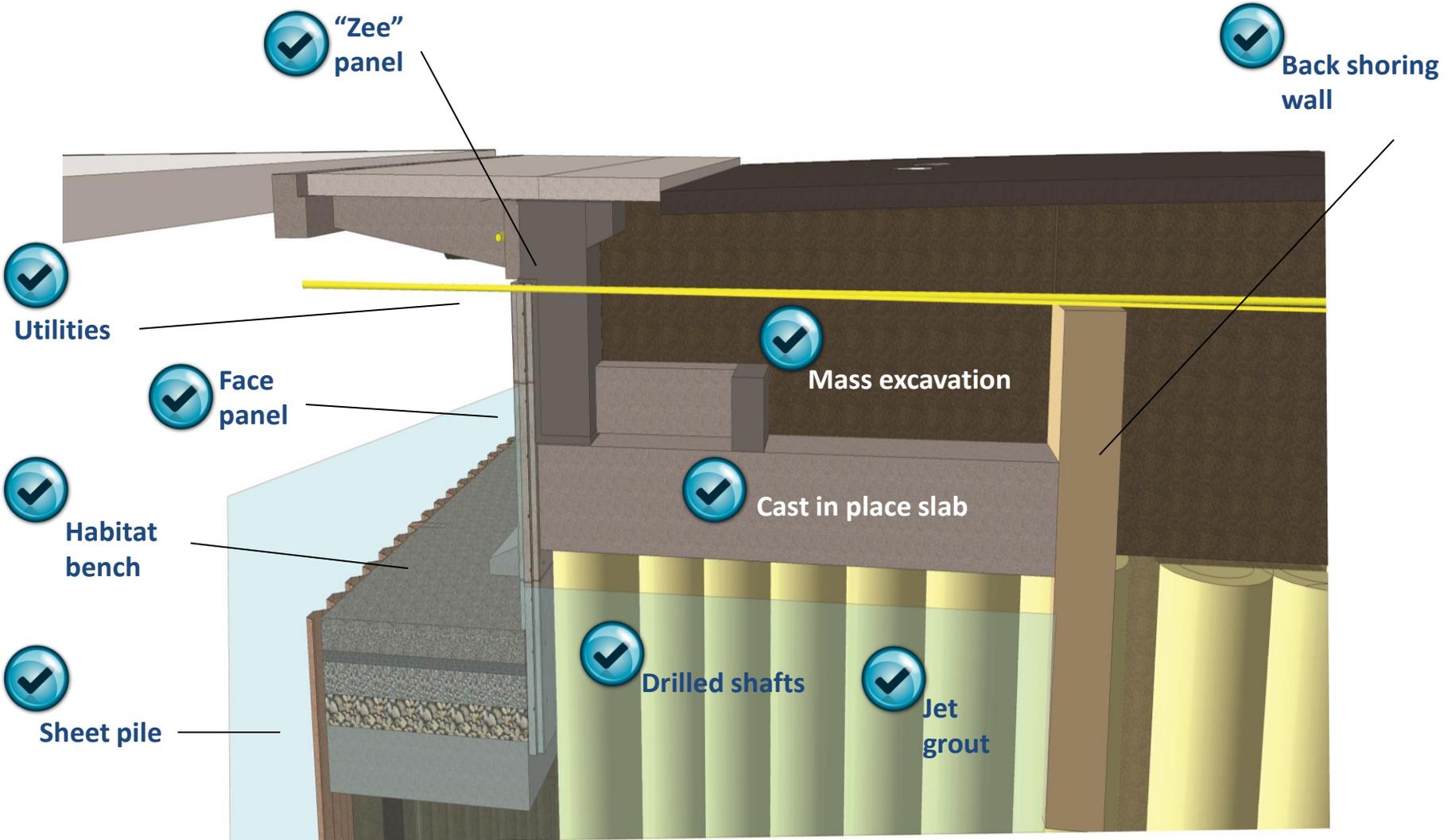
SEASON 1 UPDATE

SOUTH OF COLMAN DOCK

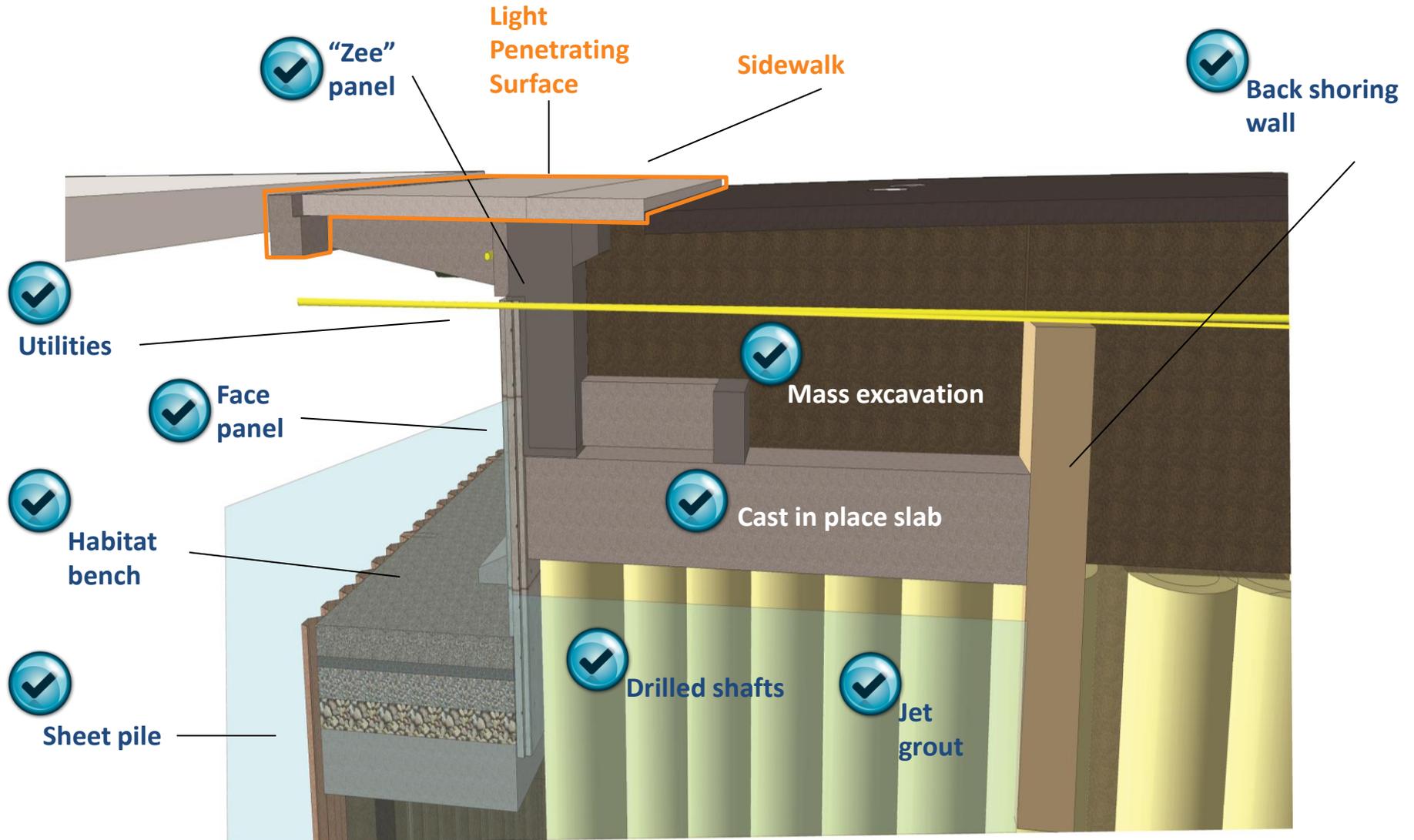
SEASON 1: SOUTH OF COLMAN DOCK



SEAWALL ASSEMBLY PROGRESS SOUTH OF COLMAN DOCK



SEAWALL ASSEMBLY PROGRESS SOUTH OF COLMAN DOCK



SHEET PILE REMOVAL



FACE PANEL INSTALLATION



MARINE MATTRESS INSTALLATION



ZEE PANEL INSTALLATION



ZEE PANEL INSTALLATION



LIGHT PENETRATING SURFACE PRODUCTION



LIGHT PENETRATING SURFACE PRODUCTION



LIGHT PENETRATING SURFACE EDGE BEAM FORM WORK





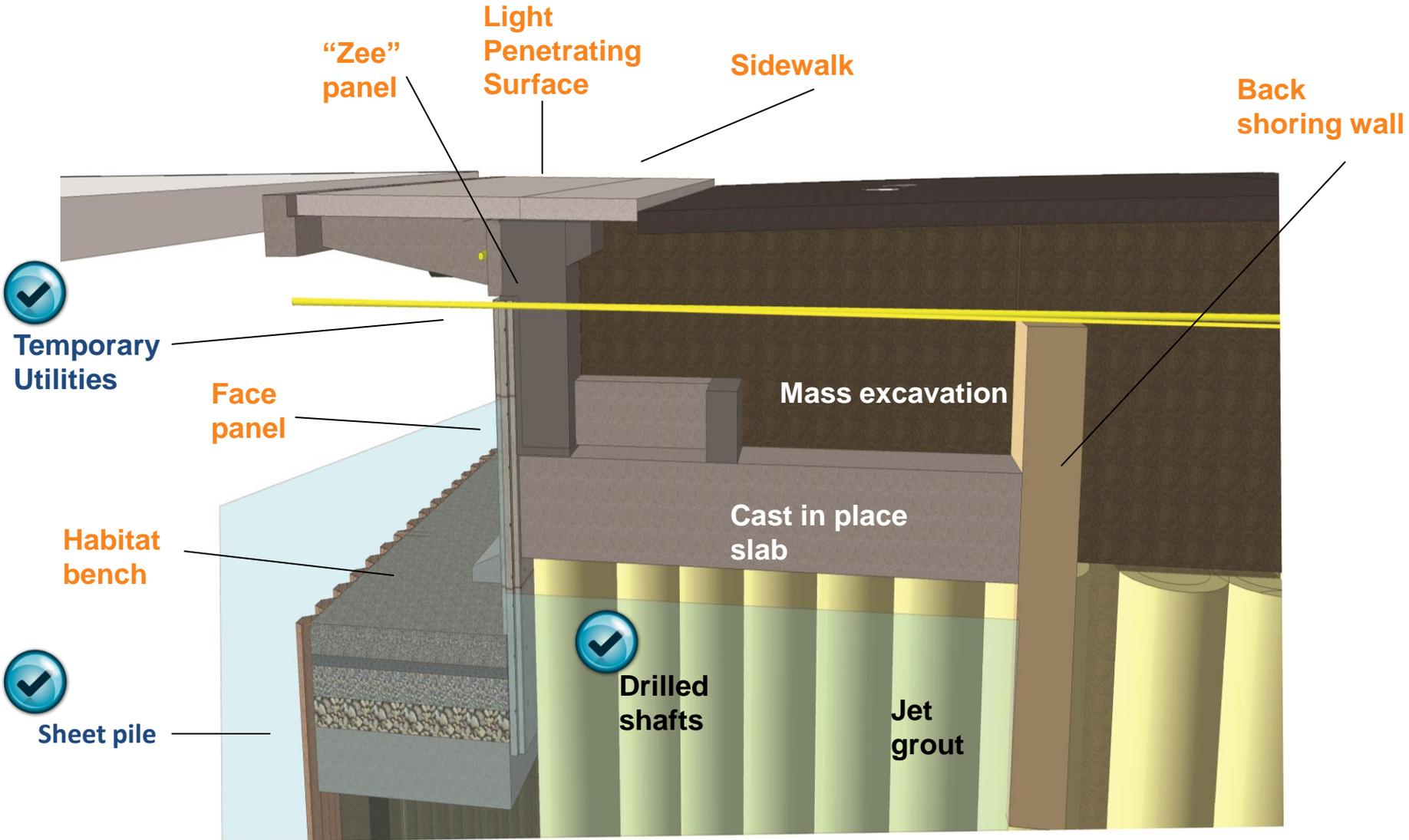
SEASON 2 UPDATE

PIKE TO MADISON STREETS

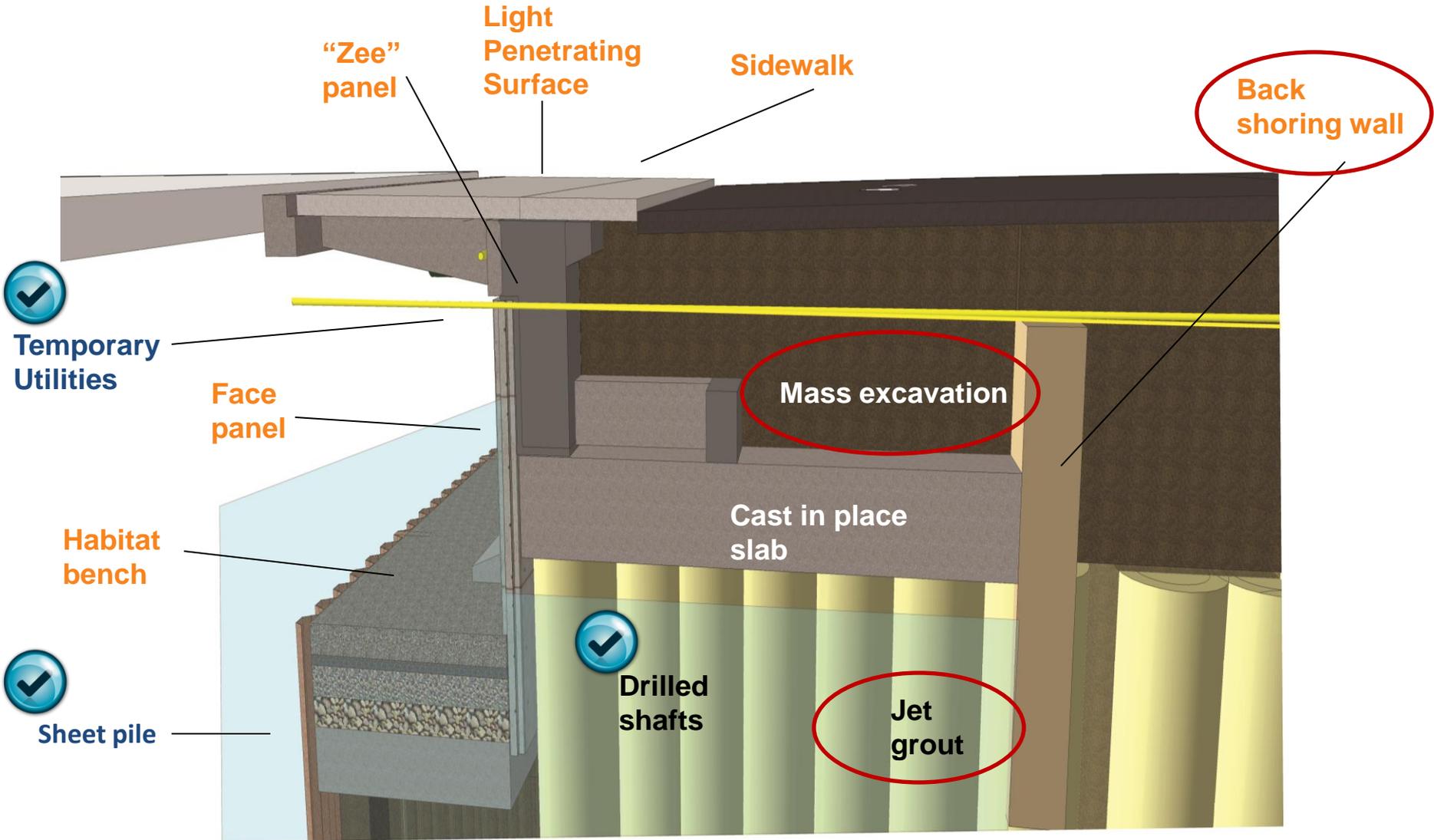
SEASON 2: PIKE TO MADISON STREETS



SEAWALL ASSEMBLY PROGRESS PIKE TO MADISON STREETS



SEAWALL ASSEMBLY PROGRESS PIKE TO MADISON STREETS



SEASON 2 START UP



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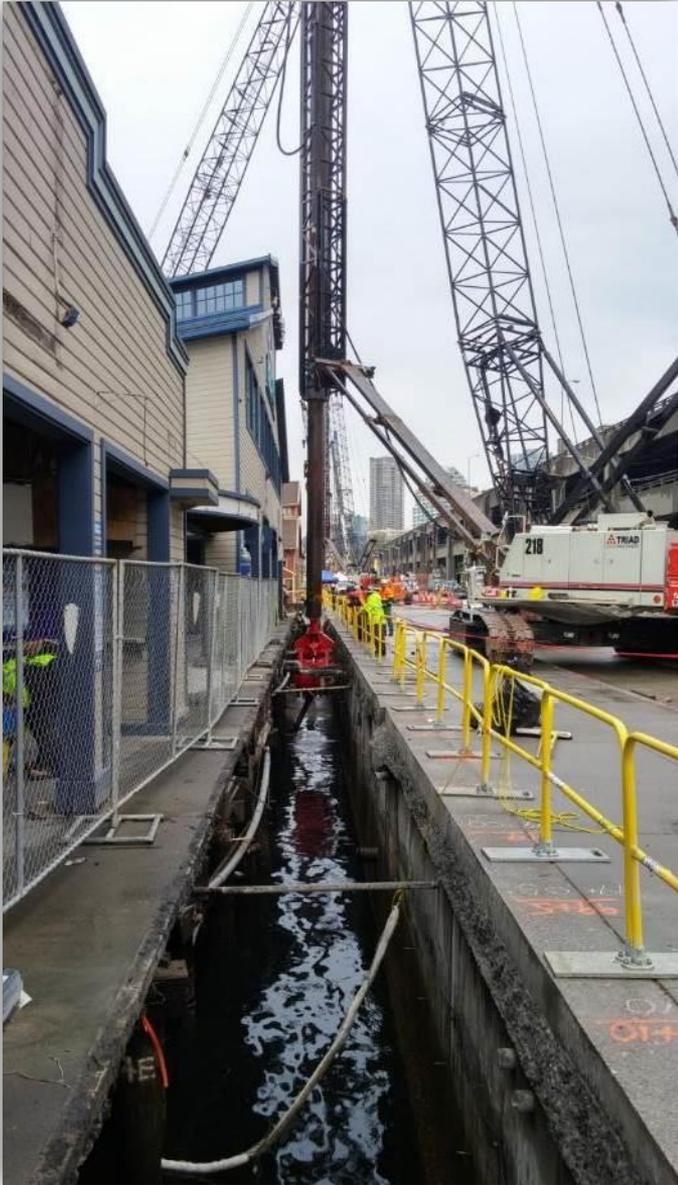
UTILITIES



SIDEWALK REMOVAL



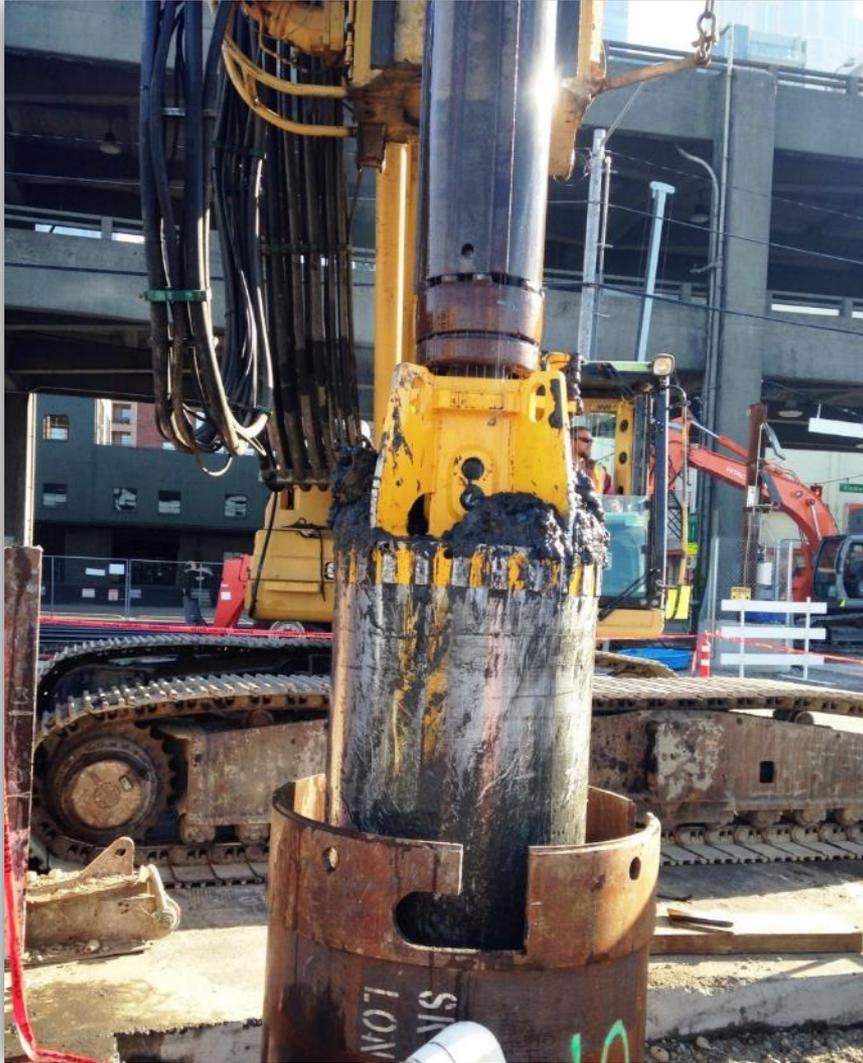
RIP RAP REMOVAL



SHEET PILE INSTALLATION



DRILLED SHAFTS



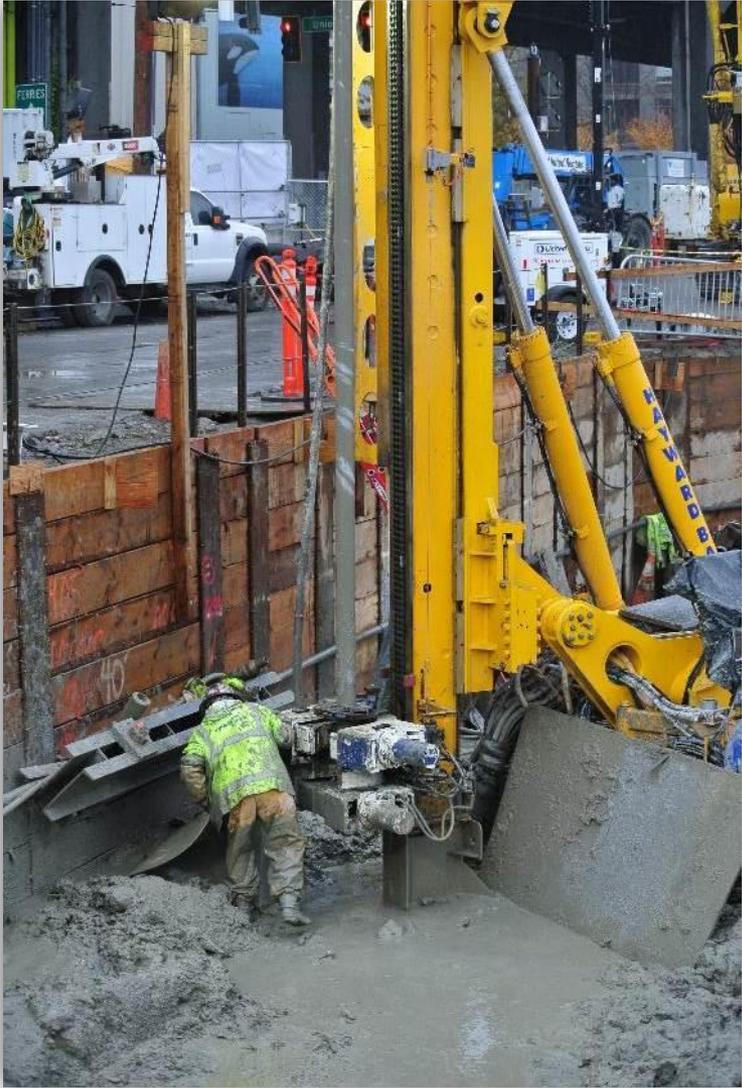
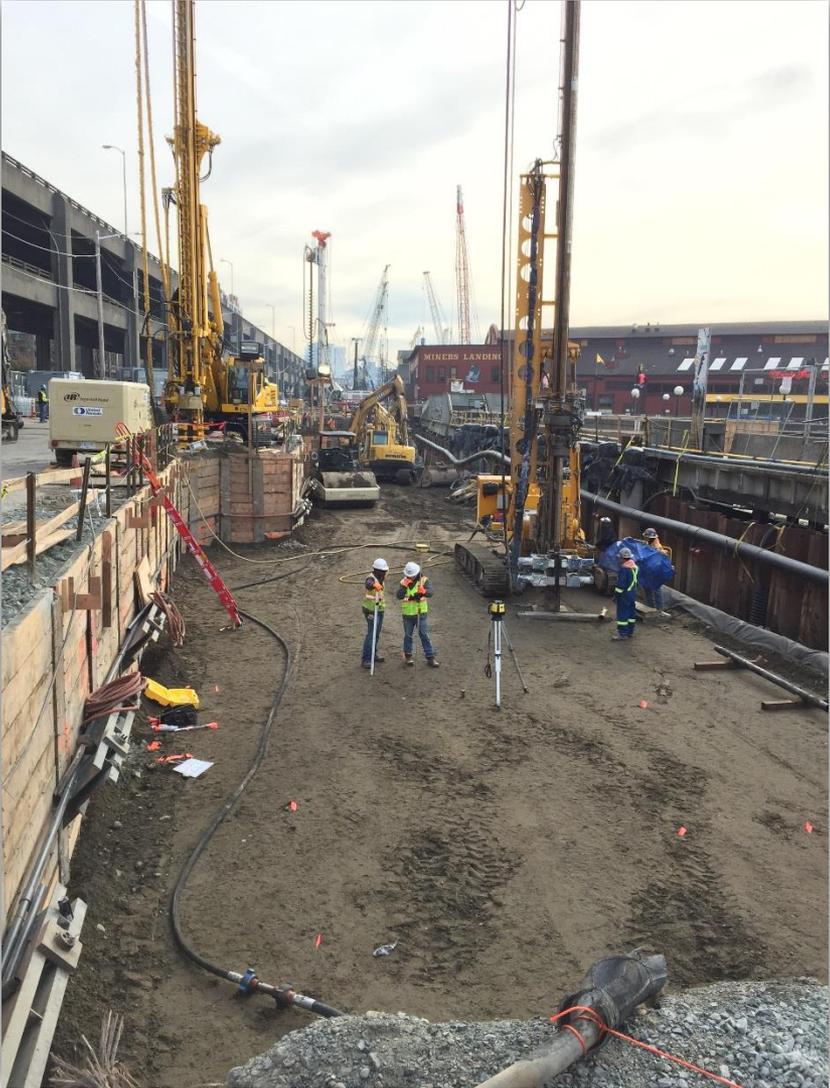
MASS EXCAVATION AND DEMOLITION



MASS EXCAVATION AND DEMOLITION



JET GROUT



WATER TREATMENT



OUTREACH UPDATE

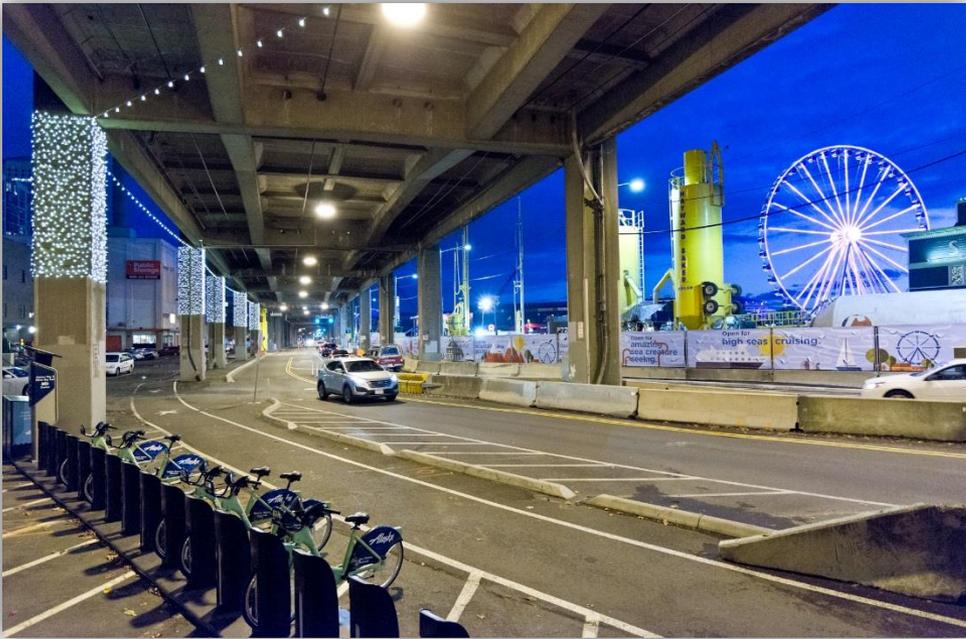
GETTING THE WORD OUT



- 57 weekly email updates sent
- 2,134 email subscribers
- 464 emails
- 250 hotline calls
- 3,451 snapshot video views
- 100+ participants on project tours
- 370 toolkits delivered
- 450 flyers distributed
- 350 social media posts



THE WATERFRONT IS OPEN!



Lighting and signage near Waterfront Park



*Pike Street Crosswalk and Waterfront Park
October 4, New Waterfront Fest*

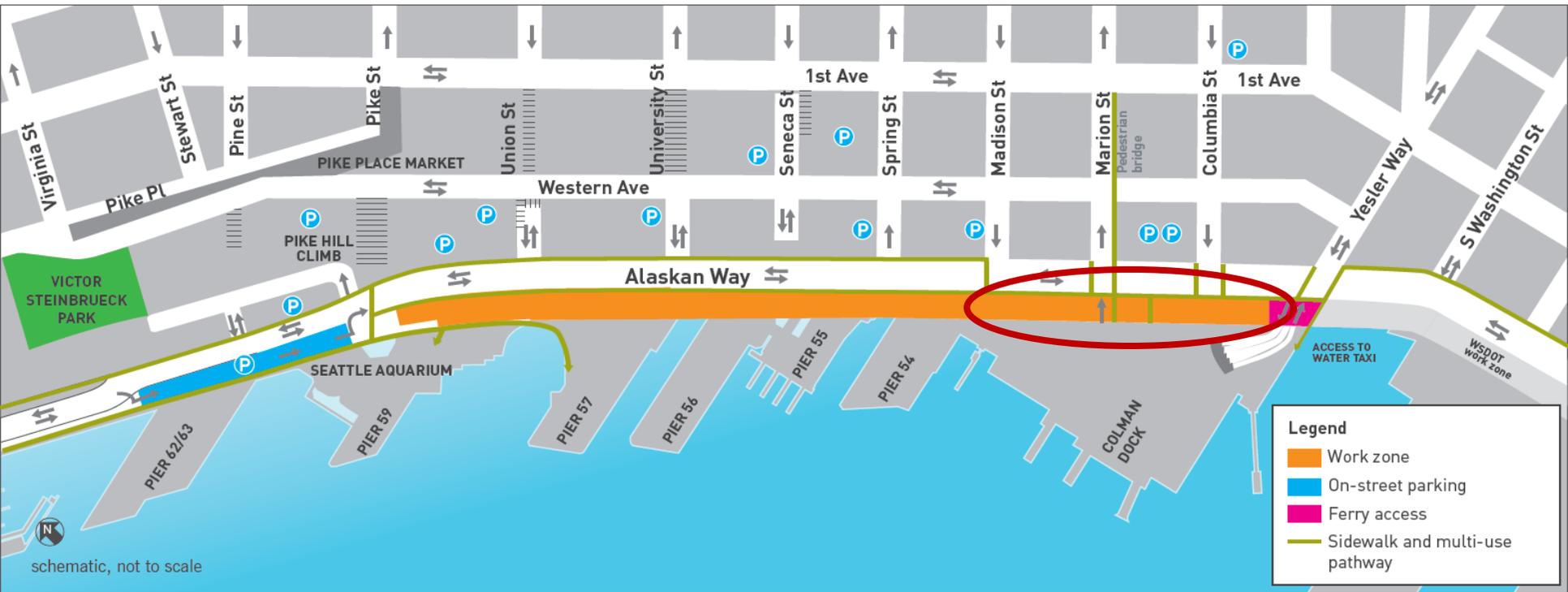


SEASON 2.5 PREVIEW

MADISON STREET TO YESLER WAY

SEASON 2.5: STARTING JANUARY 2015

MADISON STREET TO YESLER WAY



SEASON 2.5 CHALLENGES



PROJECT RISKS UPDATE

MANAGING RISK



| Category | Likelihood | Cost Rating | Schedule Rating | Mitigation Measures / Status |
|---|------------|-------------|-----------------|---|
| Construction | | | | |
| Jet Grout | | | | Jet grout complete for season 1; schedule reconciliation and disposal plan for seasons 2 and 3 in process; monies included in the contract to cover the majority. |
| Utility | | | | Temporary utilities complete for season 2. |
| Obstructions | | | | Protocols for quick identification and decision making developed in season 1, ready for future seasons. Biggest risk to obstructions is schedule. |
| New discoveries/contaminated materials | | | | Advanced remediation in process for vicinity of Madison; treatment system designed specific for pre-characterized water sampling results thus minimizing waste. |
| Protection of private property/utilities/structures | | | | Settlement and vibration monitoring ongoing; minor additional protective measures have been necessary to date. Design temporary structures to minimize potential for adverse affects on private property. |
| Structures | | | | Topic specific work teams are value engineering best options for solving technical problems. |
| Resource allocation and schedule | | | | Plan ahead; increase staff to meet work window and schedule requirements. |

| Legend | | | | |
|----------|-----|-----|------|-----------|
| Very Low | Low | Med | High | Very High |

MANAGING RISK



| Category | Likelihood | Cost Rating | Schedule Rating | Mitigation Measures / Status |
|--|------------|-------------|-----------------|---|
| Contracting/Procurement | | | | |
| Added scope / labor | | | | Increase staff to meet schedule; staff costs are lower than cost of delay; add resources to manage provisional sum items. |
| Environmental | | | | |
| Permitting | | | | Minimize changes to the maximum extent feasible. |
| Compliance | | | | Implement lowest cost strategies needed to maintain compliance and meet schedule. |
| External Stakeholder Coordination | | | | |
| Private properties | | | | Close collaboration and communication. |
| Agency coordination / other projects | | | | Close coordination; elevate and track; maintain schedule. |

| Legend | | | | | | | | | |
|----------|--|-----|--|-----|--|------|--|-----------|--|
| Very Low | | Low | | Med | | High | | Very High | |

NEXT STEPS



- Wrap up season 1 work
- Continue central waterfront work
- Begin Season 2.5 in January 2015





QUESTIONS?

Email: seawall@waterfrontseattle.org

Website: waterfrontseattle.org/seawall

24-hour hotline: 206-618-8584