### PIONEER SQUARE EAST-WEST PEDESTRIAN IMPROVEMENTS BRIEFING

PIONEER SQUARE PRESERVATION BOARD BRIEFING NOVEMBER 2021



### MIG | PERTEET | STUDIO MATTHEWS | HEFFRON TRANSPORTATION | CONCORD | HWA | WHPACIFIC | CHUDGAR

DESIGN AND CONSTRUCT PEDESTRIAN IMPROVEMENTS ON PORTIONS OF MAIN, WASHINGTON, KING AND YESLER STREETS BETWEEN 2ND AVENUE AND ALASKAN WAY IN DOWNTOWN SEATTLE.

THE PRIMARY OBJECTIVES ARE:

- **CONNECT** THE CORE OF PIONEER SQUARE TO THE NEW WATERFRONT;
- PROVIDE SAFE, CONVENIENT, GRACEFUL, PEDESTRIAN CONNECTIONS AND FOSTER POSTIVE CITY LIFE AND ACTIVITY IN KEY PIONEER SQUARE EAST-WEST STREETS.



# **PROJECT BUDGET AND FUNDING**

- \$21 MILLION BUDGET FOR ALL PROJECT COSTS (DESIGN, ENVIRONMENTAL, CONSTRUCTION, CONSTRUCTION MANAGEMENT); FUNDING PRIMARILY FROM WATERFRONT LOCAL IMPROVEMENT DISTRICT
- (LID), SUPPORTED BY OTHER CITY FUNDS



# **PROJECT SCHEDULE**

# • MARCH 2021 - 60% DESIGN

- SEPTEMBER 2021 90% DESIGN, APPLY FOR CERTIFICATE OF APPROVAL
- APRIL 2022 100% DESIGN
- FALL 2022 START CONSTRUCTION



# DETAILED DESCRIPTION OF PROPOSED WORK

### **PROJECT DESCRIPTION**

The Pioneer Square East-West Street's Pedestrian Improvement Project (PSEWS) project's goals are to design and construct pedestrian improvements on portions of South Main, South Washington, South King Streets and Yesler Way between 2nd Avenue and Alaskan Way in Downtown Seattle. The work includes widening the existing sidewalk and repaving portions of the sidewalk and roadway along with landscape and site furnishings for pedestrians. In addition, vehicular traffic flow through the PSEWS project will be revised to create more space for pedestrian access and improve the pedestrian realm. The traffic circulation revisions are anticipated to include:

- Converting South Washington Street to one-way westbound. South Washington would have one travel lane between the 2nd Avenue Extension and Alaskan Way.
- Converting South Main Street to one-way eastbound. It would have one travel lane between Alaskan Way and the 2nd Avenue Extension.
- Retaining two-way operation on Yesler Way, but prohibiting westbound left turns at the 1st Avenue intersection. If and when a protected bicycle lane (PBL) is installed along the north side of Yesler Way (currently planned in the Seattle Bike Master Plan, but not implemented as part of the PSEWS project), westbound right turns and eastbound left turns that would cross the PBL at 1st Avenue should also be prohibited so that the signal can be operated with two signal phases as currently exists.
- Retaining two-way operation on South King Street with pedestrian safety and ADA improvements at 1st Avenue.
- Converting 2nd Avenue South from one-way to two-way operation between Washington and Main Streets and reconfiguring the parking.

Specific Improvements for each corridor that guide the development of this scope include the following.

### **YESLER WAY**

- A new traffic island to protect the cycletrack users between Western and Alaskan Way.
- New curb bulbs will be installed along the entire southern edge of the Yesler/ Western intersection, including a new sidewalk between the Runberg Architecture building and the Best Western. The bulb out will include new plantings, and will entail relocating drainage infrastructure. There will also be a bulb westward and southward from the northeastern corner at Western and Yesler. The north curb between Western and First Avenue will move southward to improve planting opportunities and the pedestrian realm. These improvements will also necessitate relocating drainage infrastructure. The drainage design will be drafted with 60% plans.
- Targetted full pavement depth removal and pavement planing between Alaskan and First Avenue. Improvements do not extend beyond the western First Avenue curb line. No street improvements are considered for the southern half of Yesler between the new curb bulb at Western Avenue and First Avenue. New paving will replace the areas that have been demolished/planed.
- Partial restoration of the travel lane and parking areas where pavement was removed.
- New striping and signage. Signage is assumed to be bolted to the sidewalk.
- The sidewalk on the north side of Yesler between Post Avenue and Western Ave will be removed and repaved.
- A new curb and associated drainage infrastructure will be installed along the north

- New sidewalk paving restoration and plantings along the north side of Yesler Way, a target of three new street trees, with soil cells. Does not include additional envelope sealing/waterproofing for areaways.
- A new wood decked plaza will be installed in the bulbout at Yesler and Western.

### **S WASHINGTON STREET**

- Full pavement depth removal and pavement planing between the end of the Alaskan Way improvements' curb return and First Avenue. Asphalt lift through the First Avenue intersection. Full pavement depth removal and pavement planing between the western curb of First Avenue and the Occidental Ave intersection.
- Sidewalk removal on the south side between Alaskan and Post Alley. Limited sidewalk on other frontages between Alaskan and First due to existing areaways. Sidewalk removal along the frontage of Occidental Park and Occidental Mall.
- The project team does not anticipate demolition, penetration, removal, reconstruction, alteration, or refurbishment of the existing areaways between S Post Alley and Occidental Avenue S.
- The existing curb ramps at First Avenue will be demolished and repaved with strengthening from below following the strategies used in the Center City Connector Streetcar.
- Partial restoration of the travel lane and parking areas where pavement was removed from Alaskan Way to the Occidental Ave S intersection.
- New plantings and small-scale sidewalk paving restoration along the corridor.
- Construction of "alley-style" entries to/from First Ave.
- New raised, brick intersection and crossings for the Washington and Occidental intersection. New brick sidewalk along the frontage of Occidental Mall.
- Resetting/moving drainage structures where new paving is installed and/or new curbs are relocated along the corridor from Alaskan Way to Occidental Ave S.
- New striping and signage from Alaskan Way through to 2nd Avenue
- Demarcation of the historic shoreline via the brick paving patterns at the two alley crossings between Occidental Avenue S and Alaskan Way surface markings or similar.
- Relocation of luminaires along the south side of South Washington Street to provide a clear, pedestrian path of travel
- Creation of a small, cobblestone retaining wall just east of the Nord Alley alignment near Occidental Parl

### **S MAIN STREET**

- Full pavement depth removal and between the end of the Alaskan Way improvements' curb return and First Avenue. Improvements do not extend beyond the western First Avenue curb line. Full pavement depth removal and removal to concrete base between the western curb of First Avenue and the Occidental Ave intersection.
- The existing curb ramps at First Avenue will be demolished and repaved with strengthening from below following the strategies used in the Center City Connector Streetcar.
- Construction of "alley-style" entries to/from First Ave.
- Sidewalk removal on both sides of the street between Alaskan and Post Alley. Limited sidewalk removal near Occidental Park and Occidental Mall.
- Partial restoration of the travel lane and parking areas where pavement was removed.

- Avenue and S Occidental.
- pedestrian path of travel.

### **S KING STREET**

- Avenue.
- curbs are relocated.
- mid-block crossing.
- New striping and signage.

### **SECOND AVENUE S**

• New plantings, including new street trees. Does not include additional envelop sealing/waterproofing for areaways.

 Resetting/moving drainage structures where new paving is installed and/or new curbs are relocated along the corridor from Alaskan Way to Occidental Ave S.

• New striping and signage from Alaskan Way through to 2nd Avenue.

• Demarcation of the historic shoreline at the alley crossing between Alaskan Way and First via surface markings or similar.

Continuation of the Nord Alley paving pattern at the alley crossing between First

Relocation of luminaires along the north side of South Main Street to provide a clear,

• Limited demolition of segments of the north side sidewalk between Post Alley and First Avenue and on First Avenue.

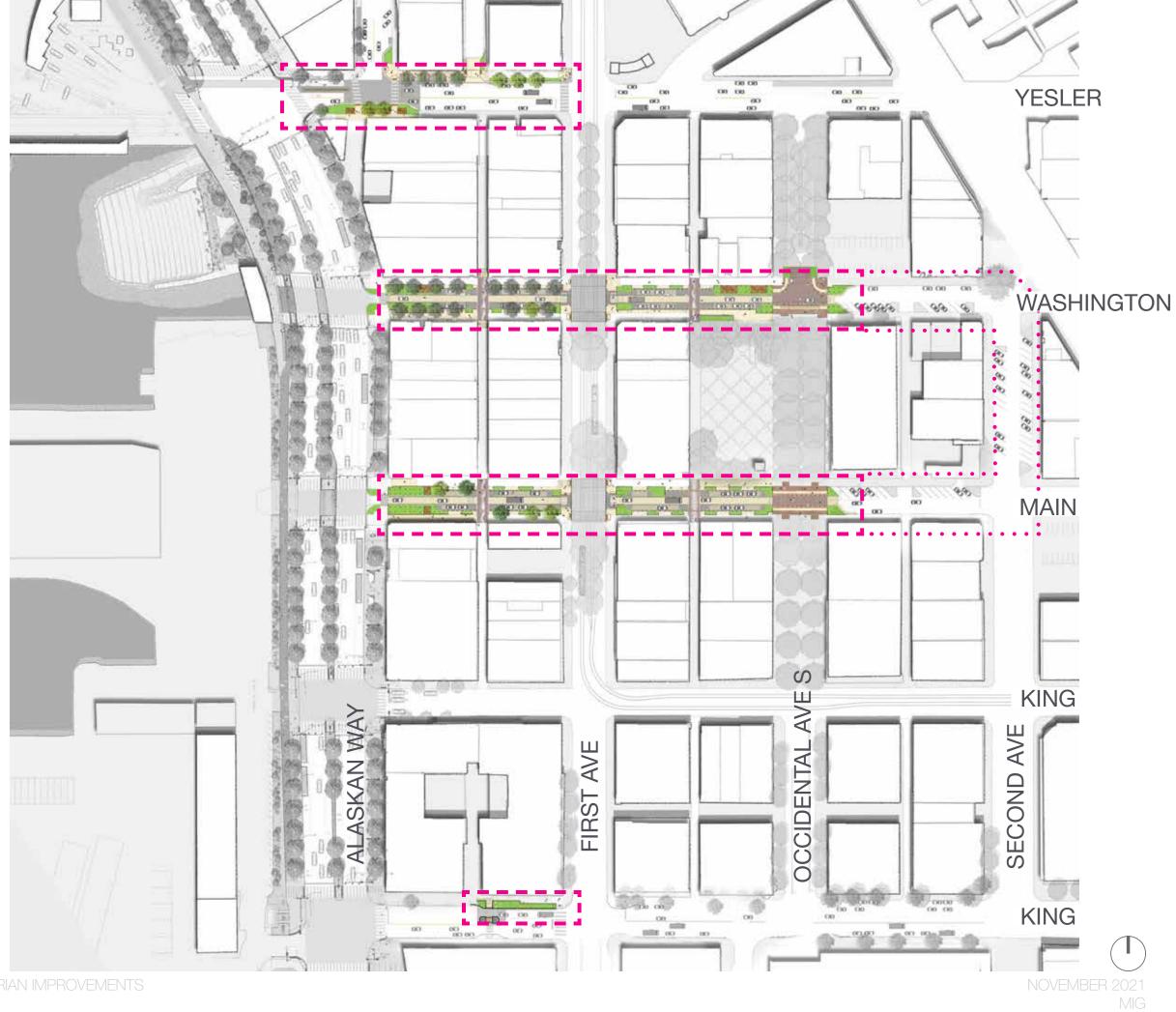
• Limited roadway full depth removal along the curb line between Post Alley and First

• Resetting/moving drainage structures where new paving is installed and/or new

• A new, mid-block refuge island with cobble pavers will be installed at the King Street

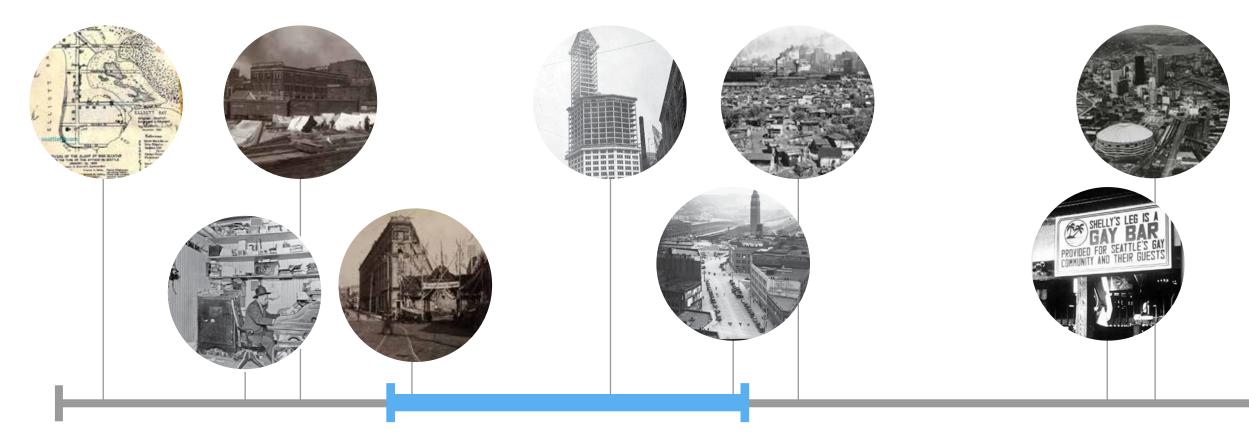
• Restriping and signage between Washington and Main. Signage is anticipated to be installed via bolting on the surface of sidewalk.

# PRIORITIZED IMPROVEMENTS



PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

## LIVING LEGACIES



1851

1889 1931 NATIONAL REGISTER PERIOD OF SIGNIFICANCE



## LIVING LEGACIES

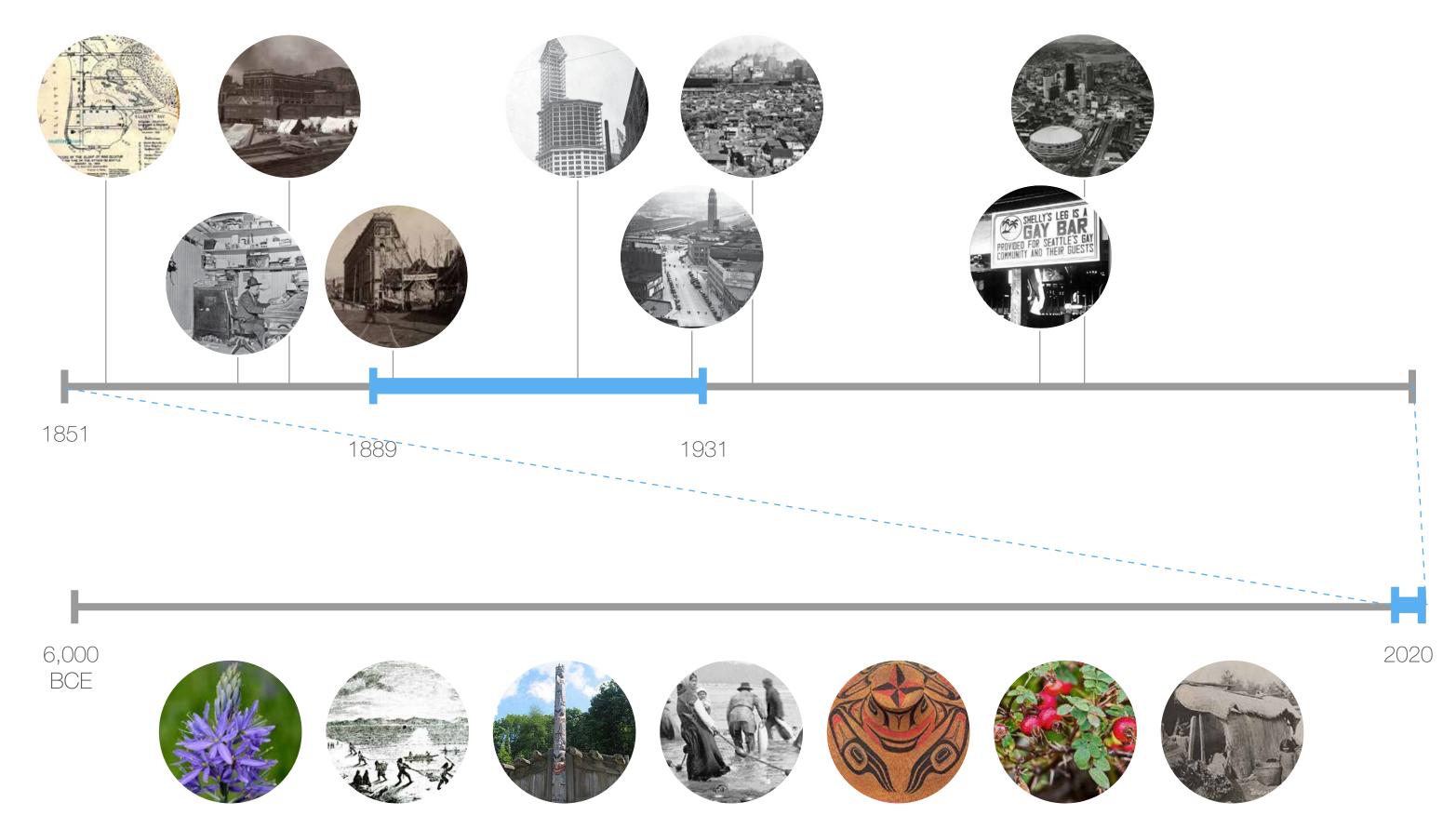






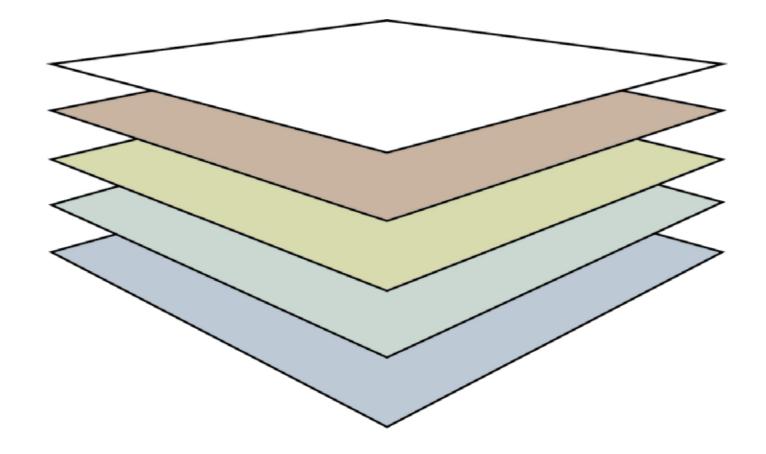


# LIVING LEGACIES

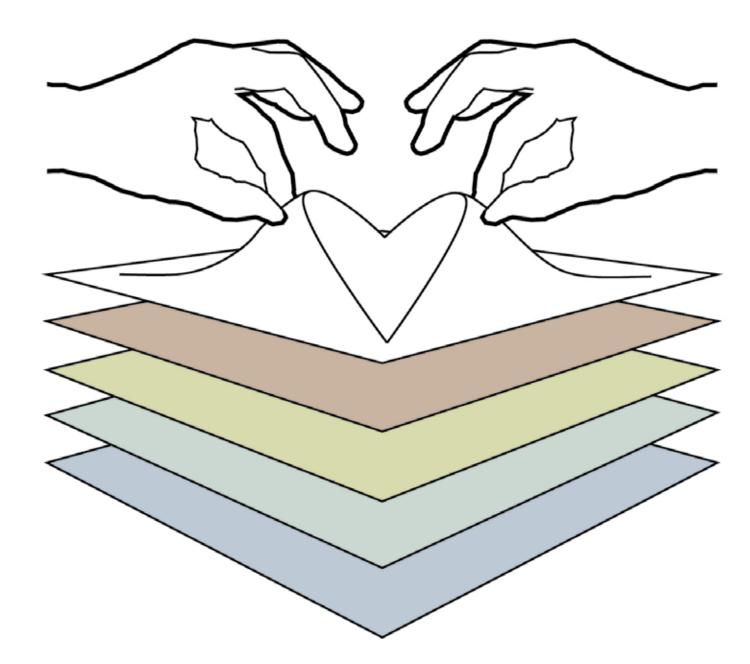


PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

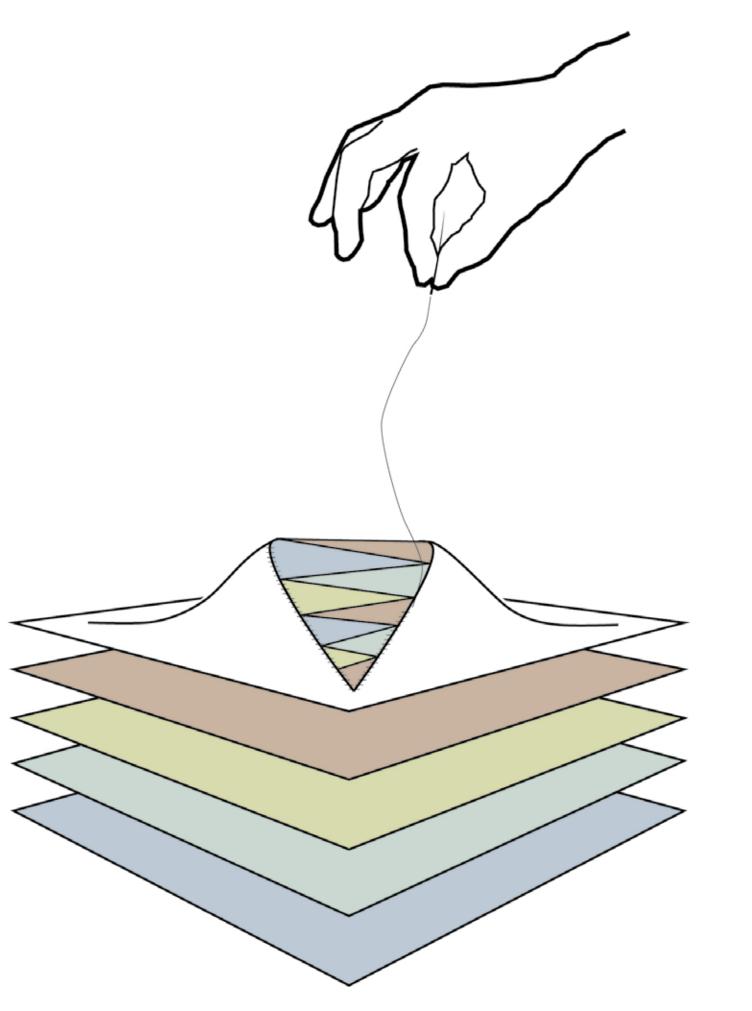
# REGROUNDING: ACKNOWLEDGE



# **REGROUNDING: EXPOSE**



# **REGROUNDING: KNIT**

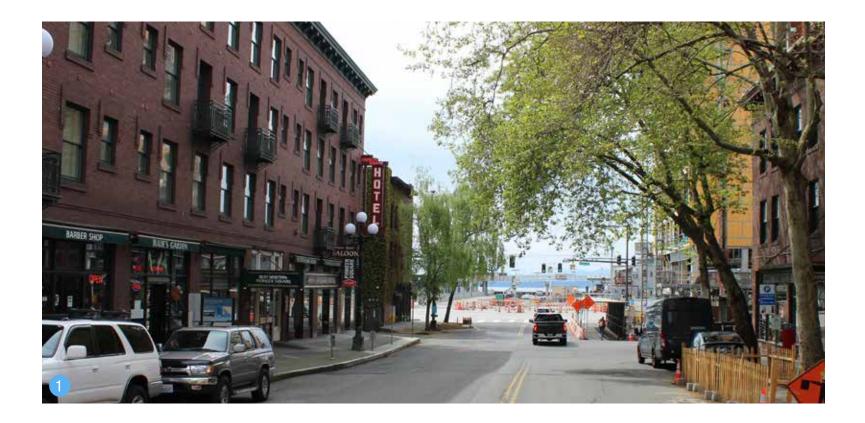


# YESLER WAY

PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

# EXISTING CONDITIONS: YESLER WAY







PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP









### **YESLER WAY PLAN** RENDERED PLAN



AREAWAYS



PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP



### **YESLER WAY** MATERIALS PLAN



CONCRETE PAVING

### **YESLER WAY PLAN** PLANTING MATERIALS





OCEAN SPRAY HOLODISCUS DISCOLOR





TUFTED HAIR GRASS DESCHAMPSIA CESPITOSA EVERGREEN HUCKLEBERRY VACCINIUM OVATUM



SWORD FERN POLYSTICHUM MUNITUM



'PRINCETON SENTRY' GINKGO GINGKO BILOBA 'PRINCETON SENTRY'



AFTERBURNER TUPELO NYSSA SYLVATICA 'DAVID ODOM'

# YESLER WAY EXISTIN

6

Nesten ----

SALOON

NEER SQUARE SALOON



Y

# YESLER WAY PERSPECTIVE

Caller Caller

ONEER SQUARE SALOON



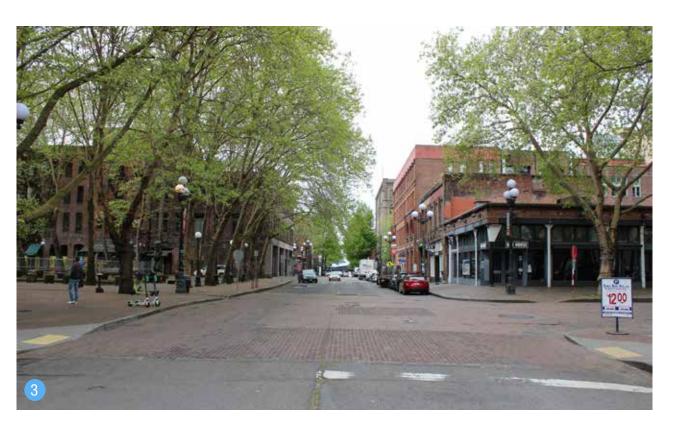
# S WASHINGTON + S MAIN STREETS

# EXISTING CONDITIONS: S. WASHINGTON STREET



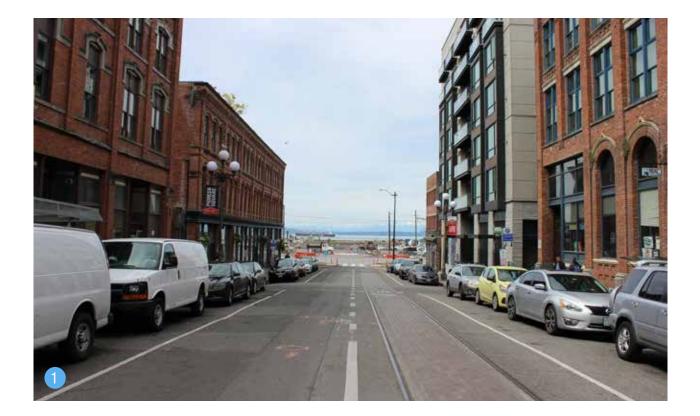






# **EXISTING CONDITIONS: S. MAIN STREET**





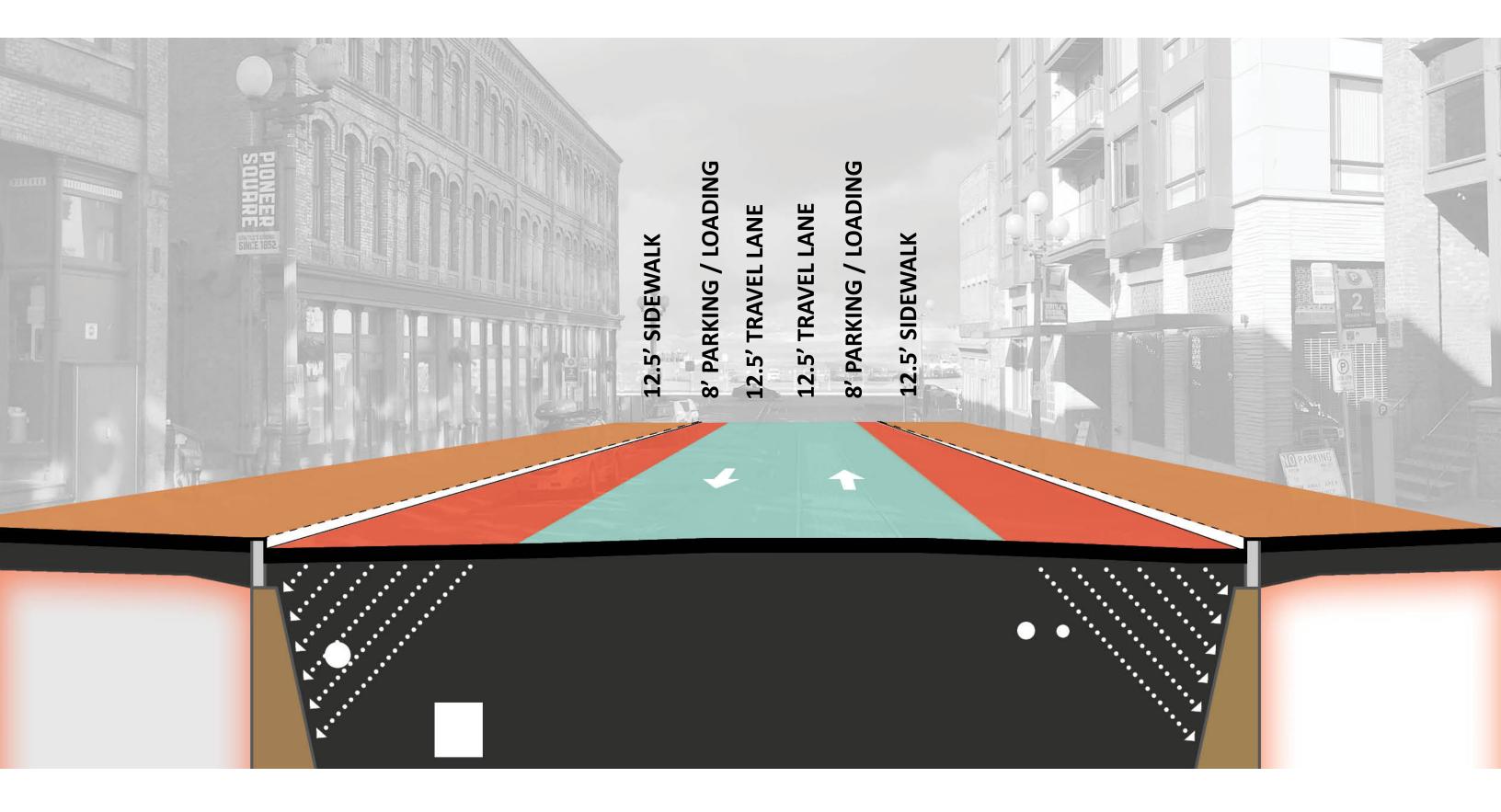




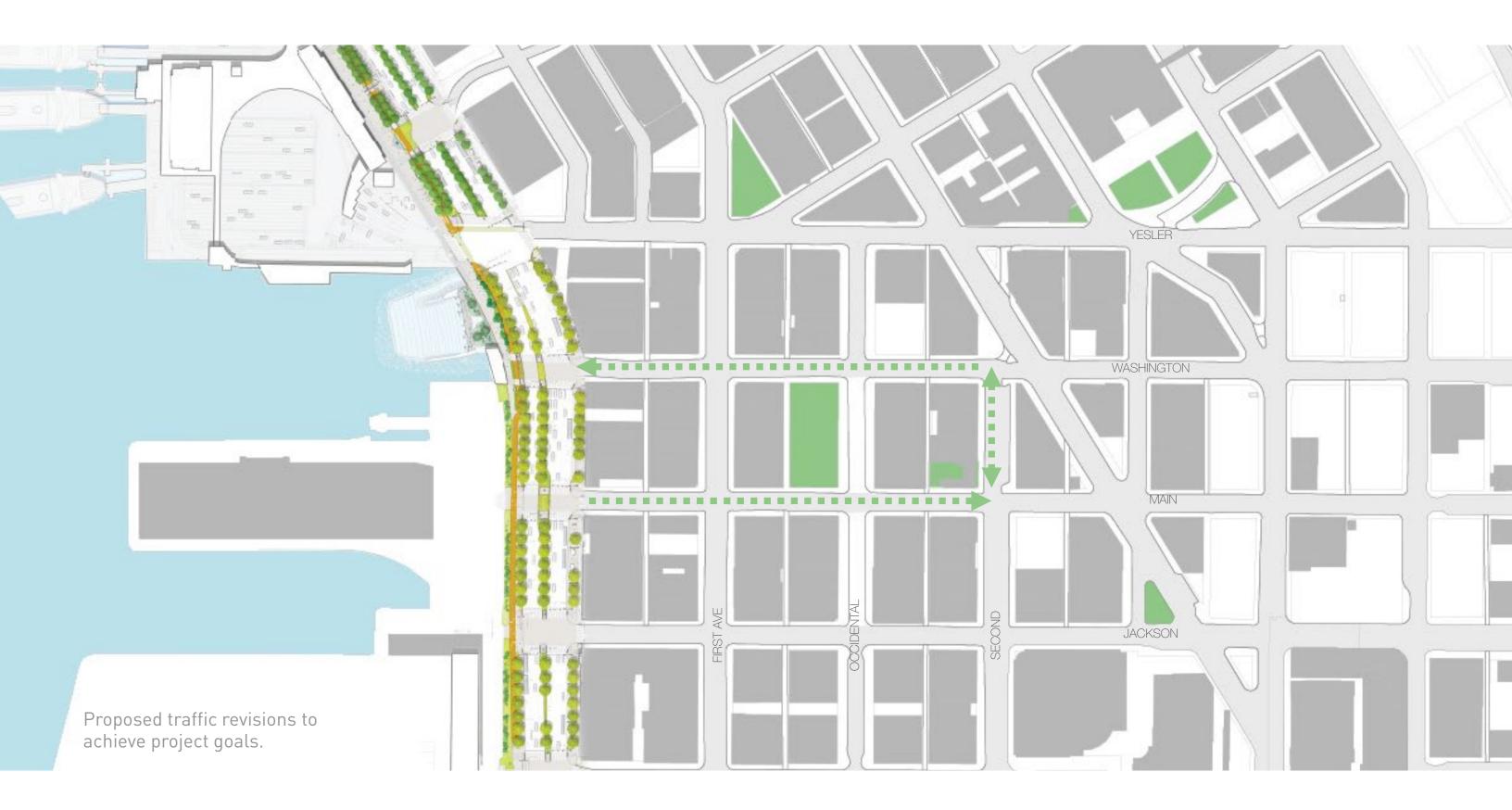
## AREAWAYS



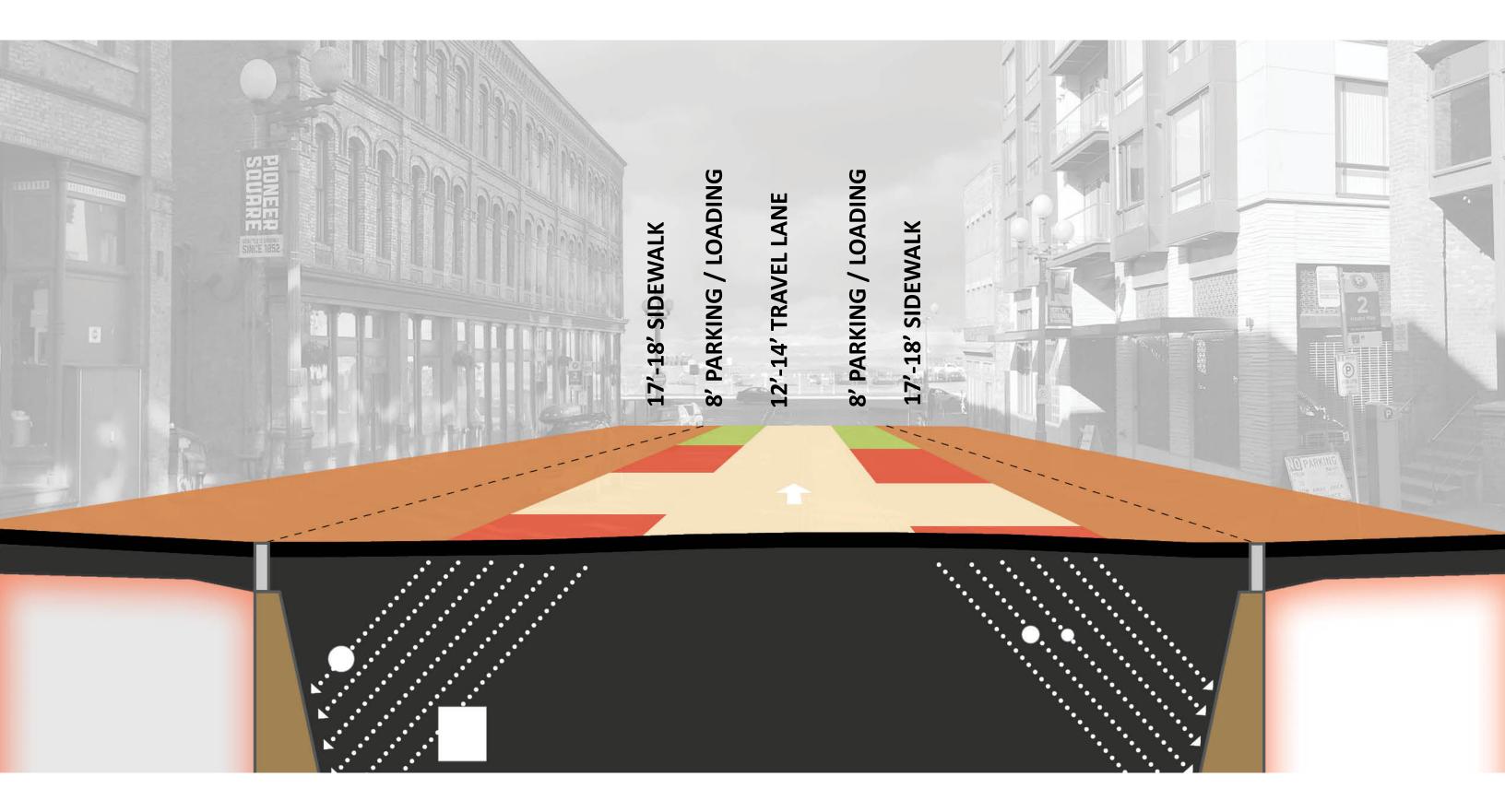
# **VEHICLES AND AREAWAYS**



# TRAFFIC REVISION: ONE-WAY STREETS



# TRAFFIC REVISION + AREAWAYS



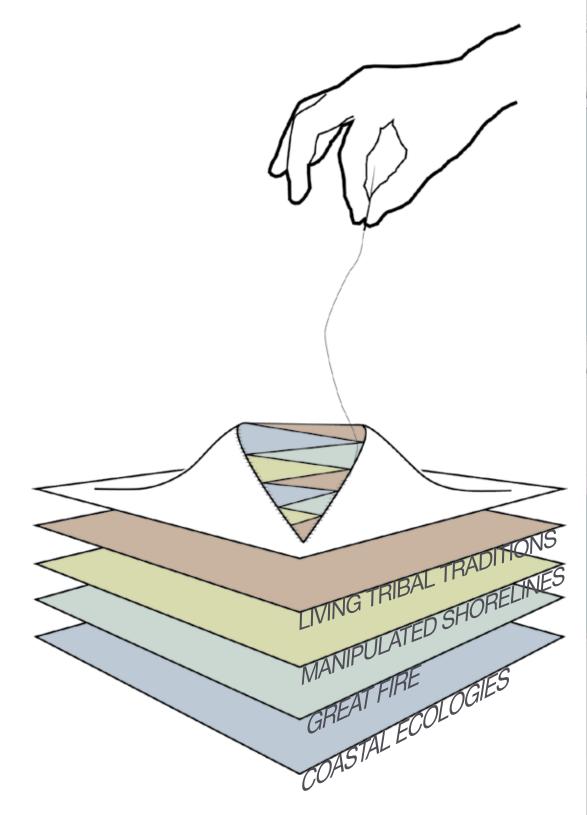
# S MAIN + S WASHINGTON PLAN



# CURBLESS PAST, CURBLESS FUTURE



# ORIGINAL SHORELINE

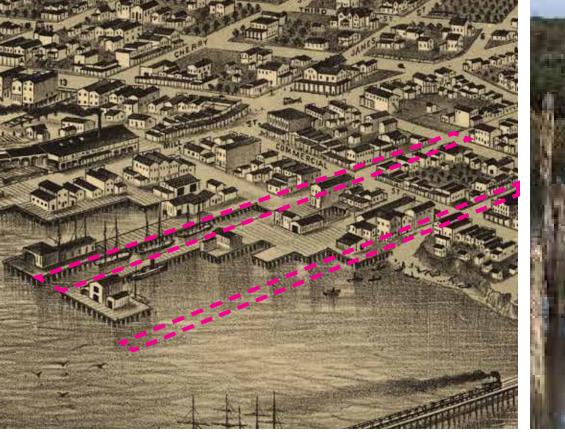




PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

# MANIPULATED SHORELINES





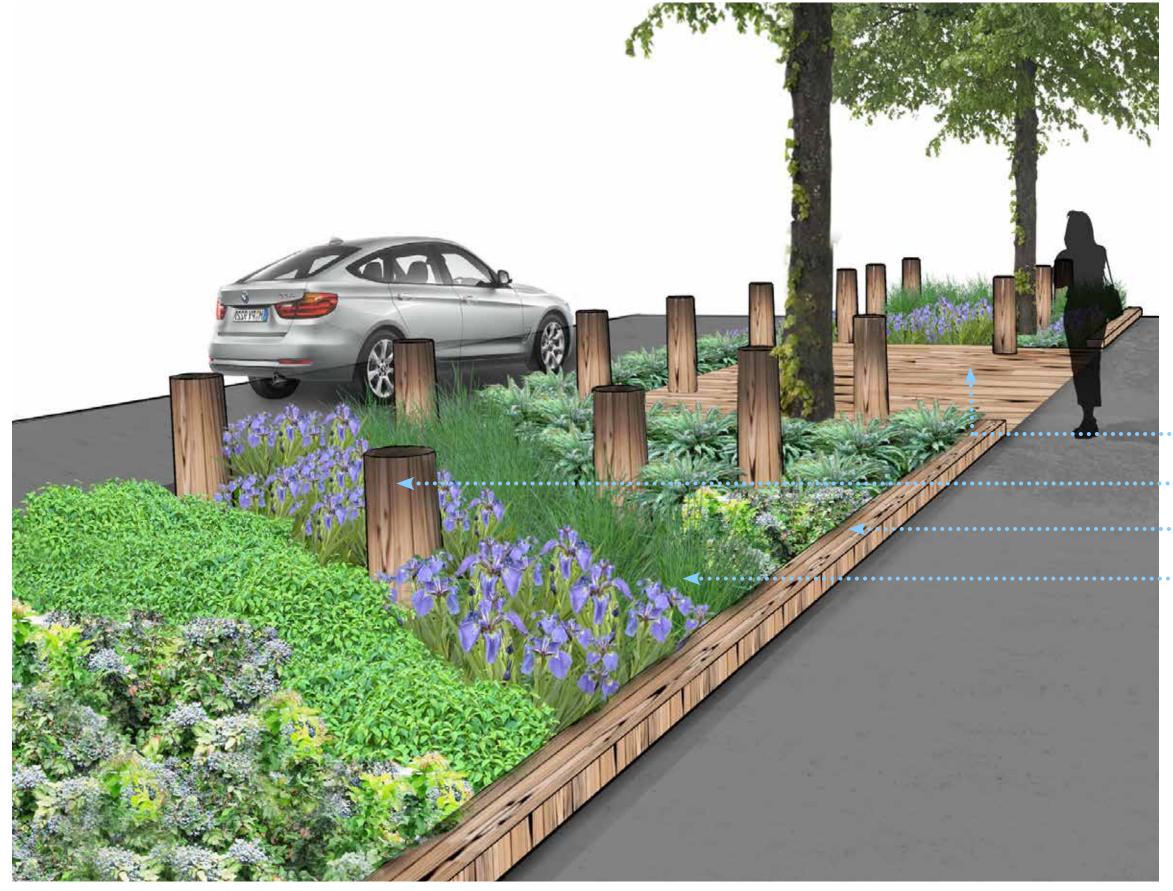




PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP



# **REVEALING MULTIPLE COASTAL STORIES**





### MANIPULATED SHORELINES GREAT FIRE TRIBAL PAST + PRESENT COASTAL ECOLOGIES

### Interpretation Storytelling Themes

**SDZIDZILALITCH** Wall Panel

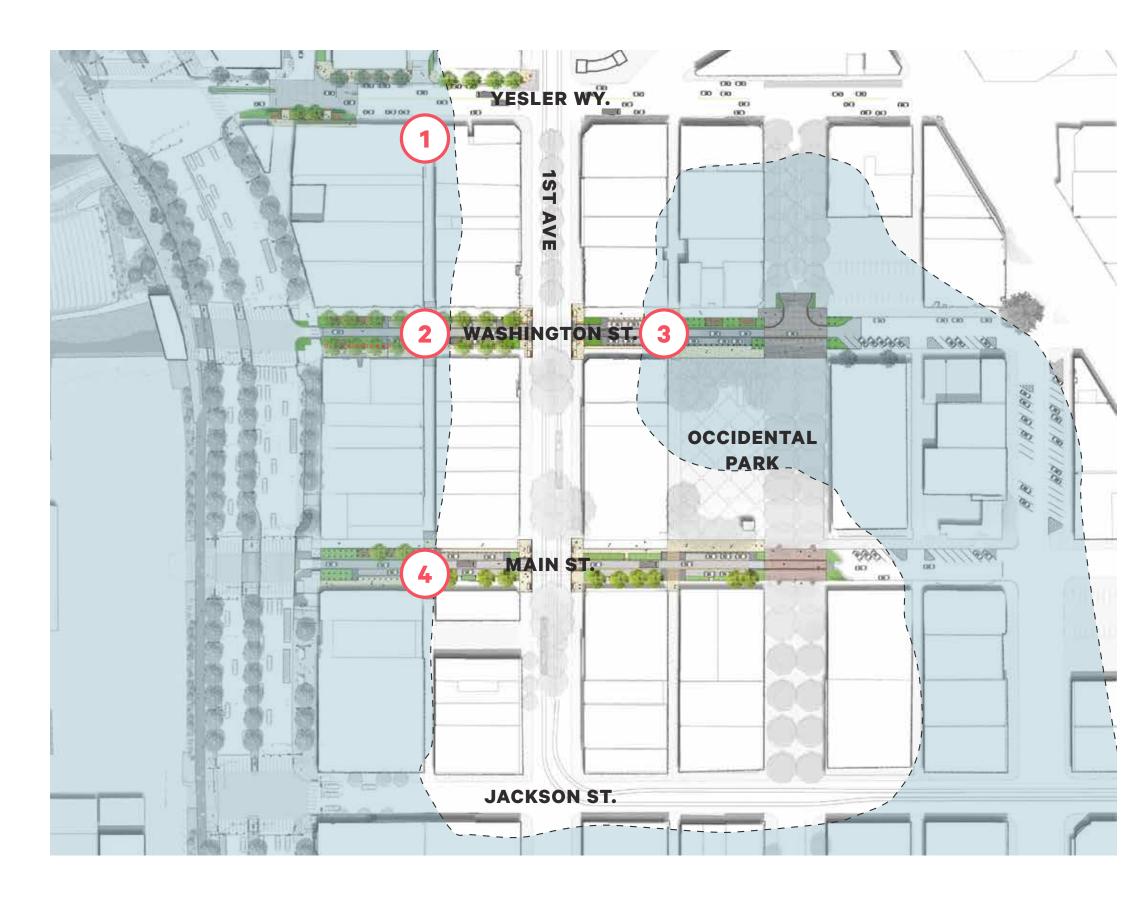
1

3



**FLOUNDER LAGOON** Wall Panels, Etched Kickrails, Paver Wave Designs

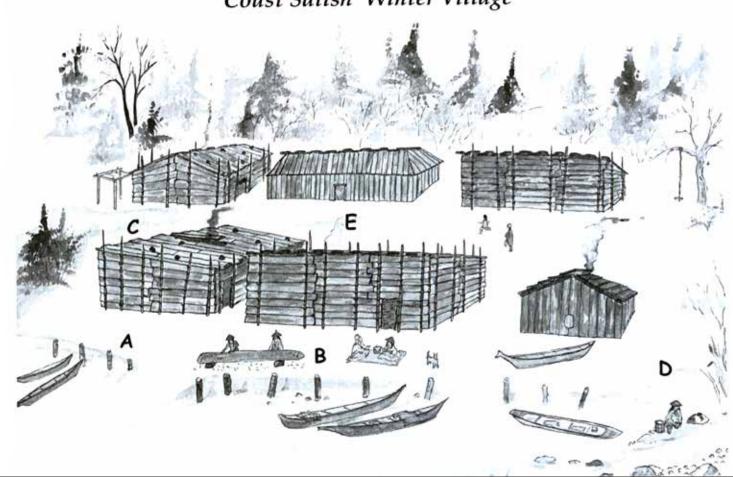
4 CLAM GARDENS Wall Panels



### Interpretation Sdzidzilalitch

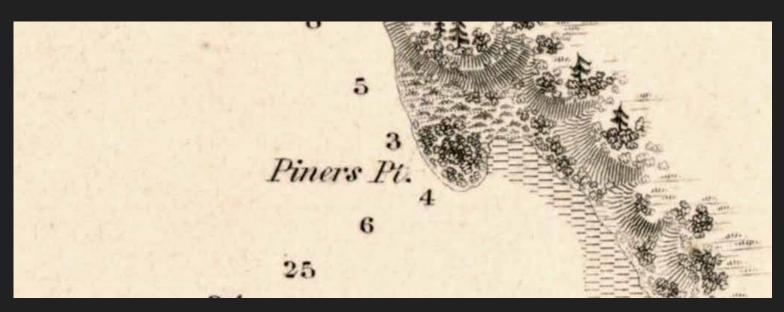
From https://www.historylink.org/File/10965

- Ancestors of today's Duwamish, Suquamish, and Mucklehoot tribal members chose this space for village
- Centrally located place for gathering, alliances, trade, and sharing knowledge
- Abandoned by 1852, but Coast Salish people did still live in the area
- Good canoeing conditions (easy landing & launching)
- Trails to flounder fishing/access to other regions
- Springs gurgling from the ground and formed creeks (creek at Sdzidzilalitch formed first water system in Seattle)





Reference: Map of Piners Pt (Pioneer Square), from https://historylink.tours/stop/sdzidzilalitchlittle-crossing-over-place/



Reference: Map of Piners Pt (Pioneer Square), from https://historylink.tours/stop/sdzidzilalitch-little-crossing-over-place/

### Coast Salish Winter Village

Reference: Coast Salish Winter Village, from The People of Cascadia, Heidi Bohan

### **Interpretation** Duck Hunting

From https://www.historylink.org/File/10965

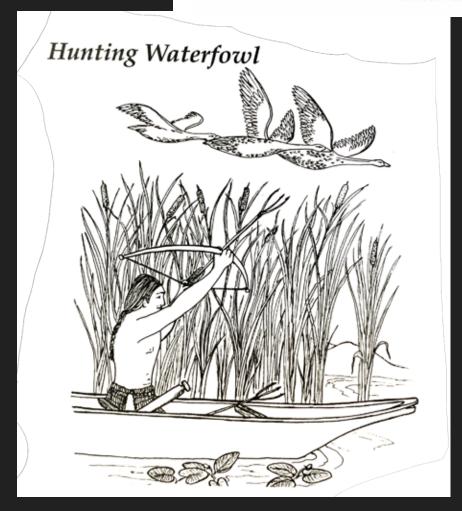
• There was also a place along the shore, below Belltown, known as Tuqap ("Aerial Duck Net"), where the Duwamish raised nets to catch ducks and other waterfowl as they flew between the bay and Lake Union.

From http://mapleridgemuseum.org/wp-content/ uploads/2015/03/Katzie-Seasonal-Round-schoolcompressed.pdf

- Birds were taken mainly with large nets made of the same materials used to make fish nets.
- The nets were suspended between two tall poles permanently erected at locations of flyways.
- Small hand nets were used to capture marsh birds from canoes at night, and in day time by a man hiding in tall grass or reeds, waiting for ducks to pass over.
- Arrows used for hunting birds often had blunt or knobbed wooden points, as well as single or double points of barbed bone.
- Ducks were usually eaten fresh and were a favourite food at feasts and for gifts. Ducks could be preserved for a short time by roasting whole and drying the outside over a fire to keep flies away.



LARGE nets were strung on tall poles in flyways to capture ducks and water fowl, especially on misty mornings.



Reference: Hunting Waterfowl, from The People of Cascadia, Heidi Bohan

### Interpretation Flounder Lagoon

#### Washington Street

The "Flounder Lagoon" (aka intertidal swamp)

Plants: Used for technologies - spears, weirs, traps, cordage





#### Flounder Spears

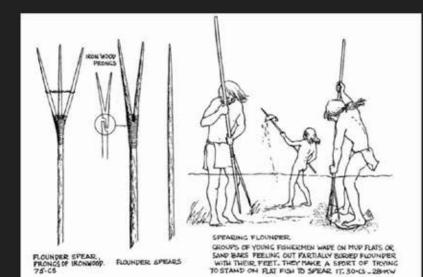




Oceanspray	
Ironwood	
Holodiscus disc	

Wild Cherry Choke Cherry Prunus Emarginata

### Flounder Spears



"Strong durable cherry bark (prunus emarginata) was used for lashing on prongs of a tougher, often springy wood: yew, ironwood or serviceberry wood"



#### Plant Cordage

#### Bark Cordage

- Stinging nettle
- Willow
- Cattail leaves
- Cedar
- Fireweed
- Dogbane

#### Roots Cordage

- Spruce Root
- Cedar Root
- Withe Cordage
  - Cedar
  - Willow

#### Shoot Cordage

Bull kelp stipe



Nettle





Service Berry Juneberry Amelanchier alnifolia



Cedar

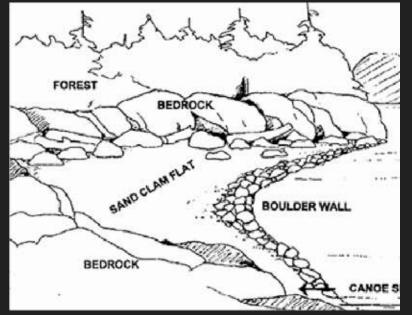


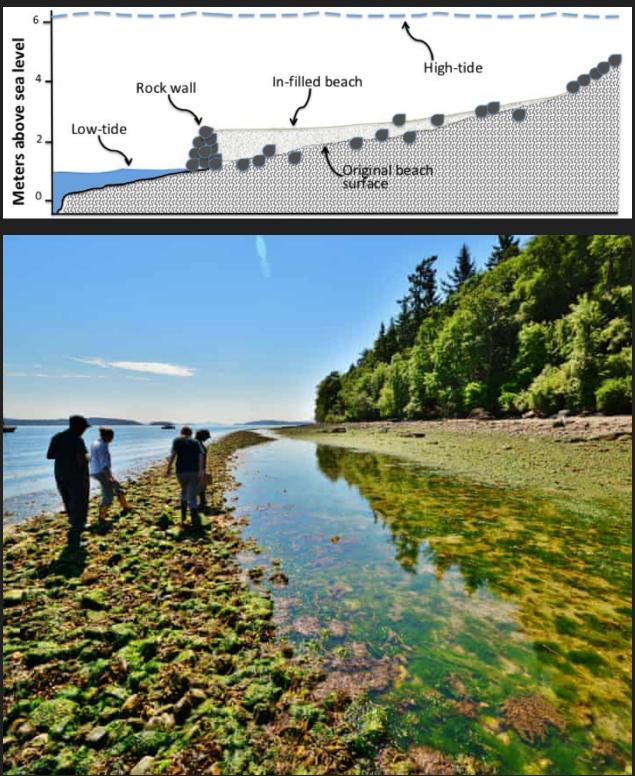
Spindle Whorl

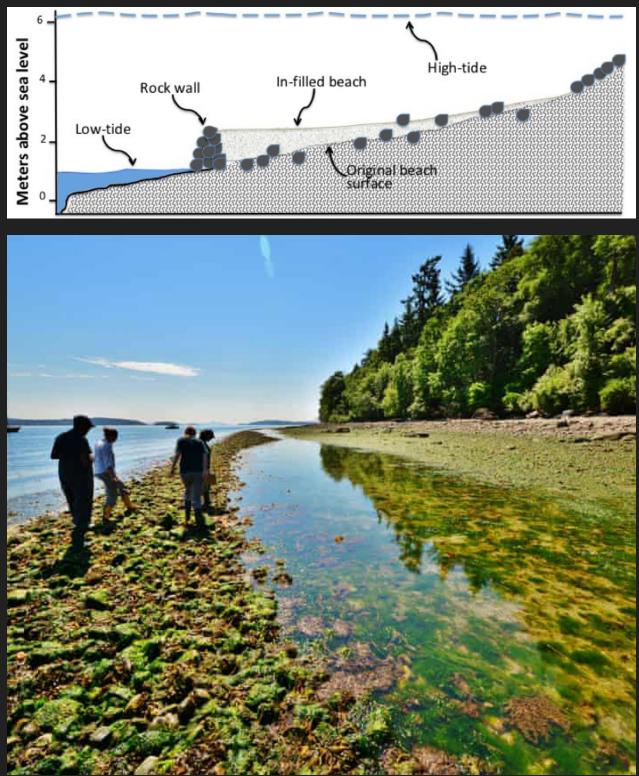
### **Interpretation** Clam Gardens

From The People of Cascadia, Heidi Bohan

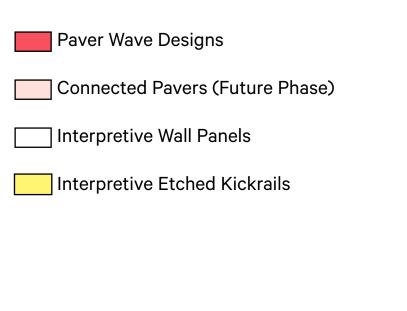
- The waters of the Pacific Northwest are filled with sealife and the people of Cascadia developed a wide variety of ways to harvest these nutritious and plentiful foods.
- Clams are in their prime when the flowering dogwood is in full bloom in late spring.
- Fish, shellfish and meat were often smoked and dried for winter. Clams were roasted, then dried and strung on necklaces to be eaten as a snack through the working day.

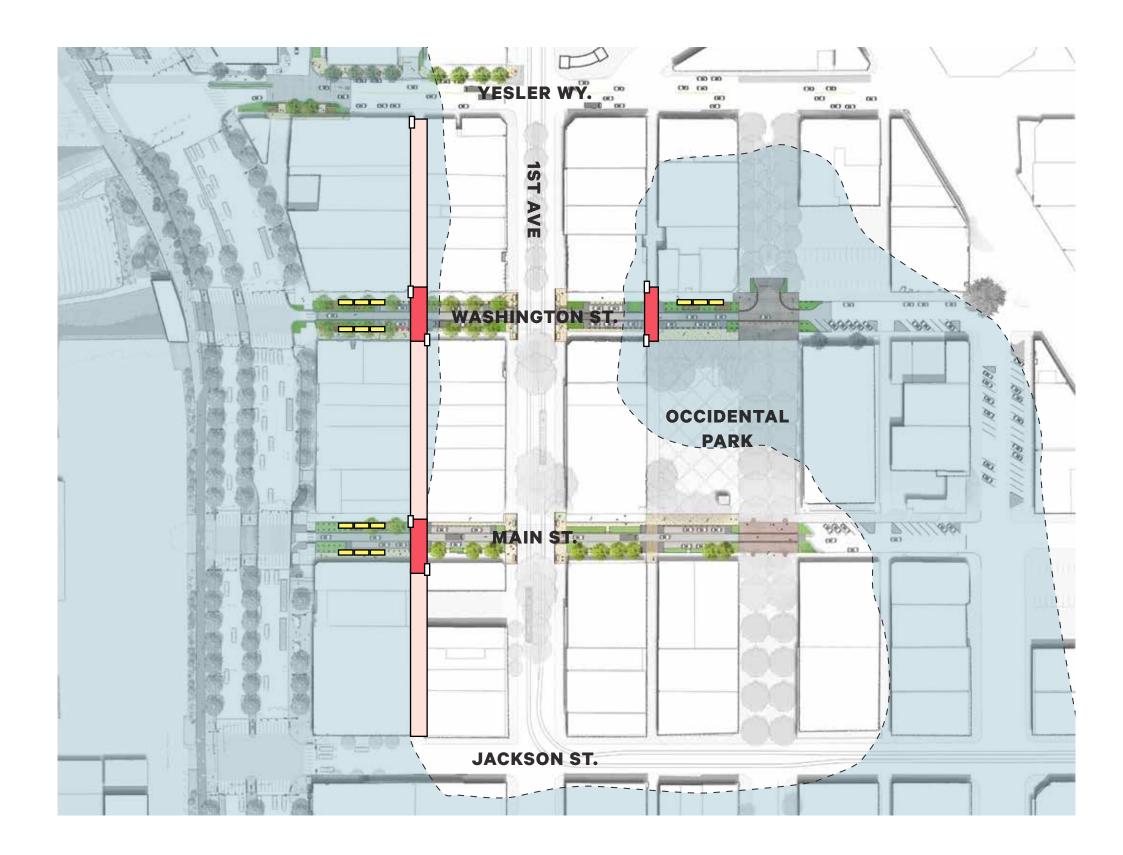




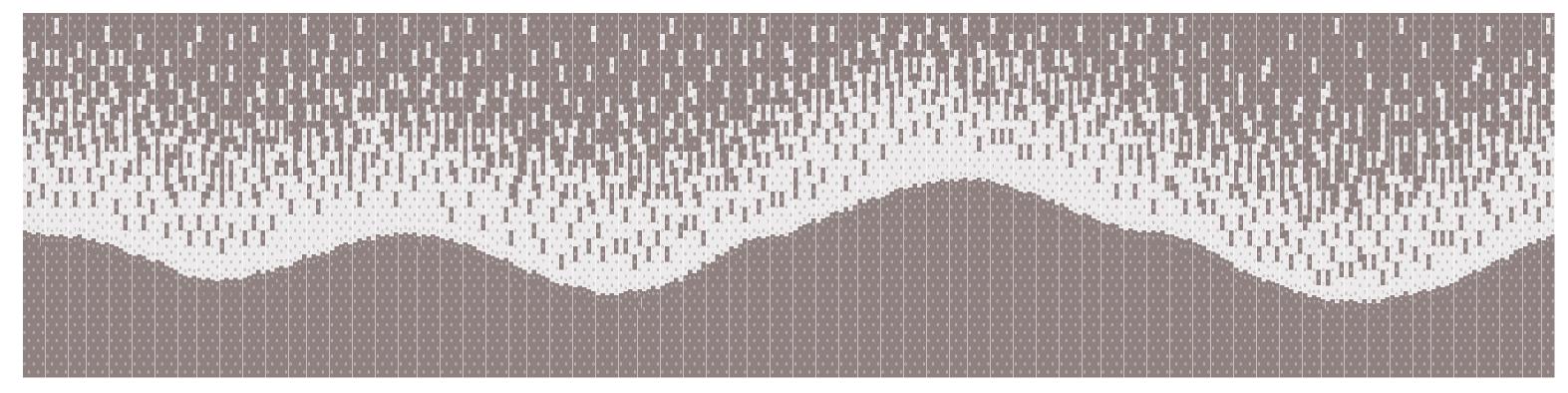


### Interpretation Sign Types & Locations





### Interpretation Paver Wave Designs



Paver designs depict waves on a coastline, with a unique pattern at each of the three intersections.

In future phases, the waves can span the entire alleys, completing the "Shoreline Alley".

Qty: 3 intersections

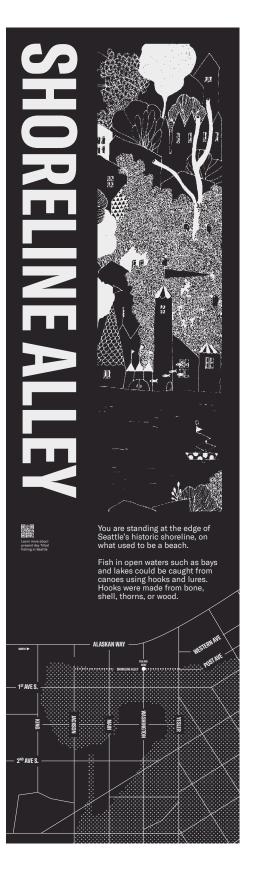


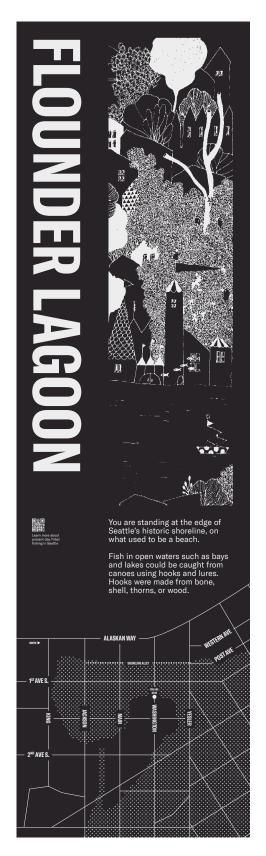


### Interpretation Wall Panels

These wall-mounted interpretive panels feature an illustration, brief text-based story, past/present map, and learn more QR code.

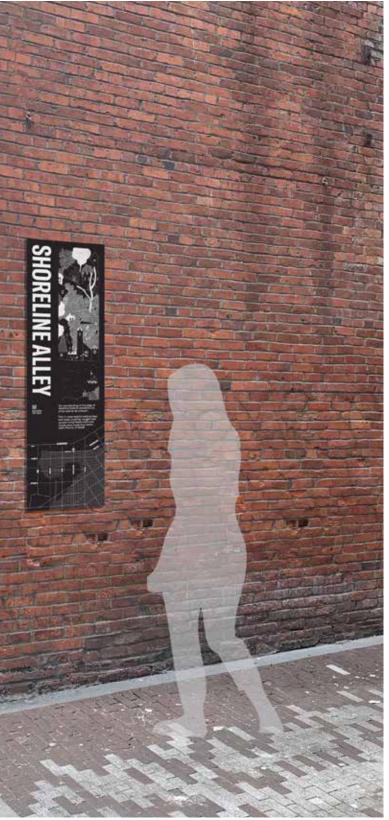
Qty: 7 panels across 4 intersections







PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP



### Interpretation Etched Kickrails



These etched kickrail designs tell stories of plant technologies, harvesting methods, and site-specific human activities.

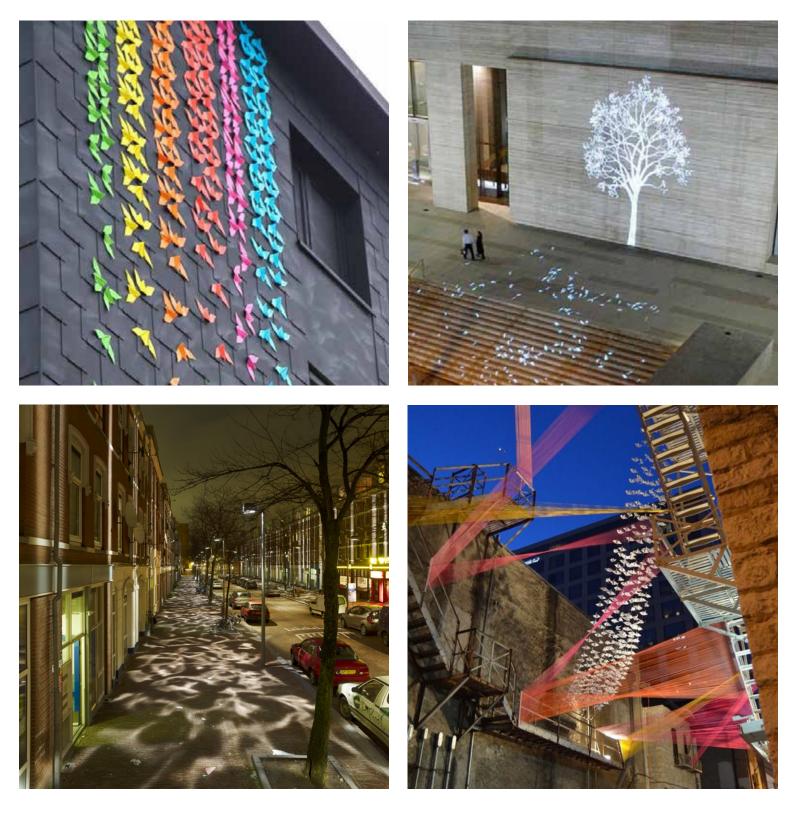
Qty: 5 sections of kickrail





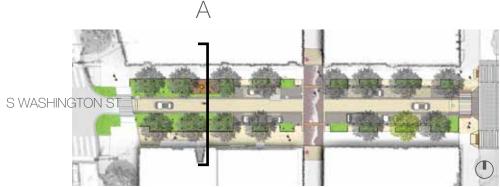
### **Interpretation** Event / Launch / Programming Opportunities

Launch opportunities could include participatory events in Occidental Square, alleyway artwork, lighting installations, thematic restaurant menus, education/tours on the Waterfront, etc.



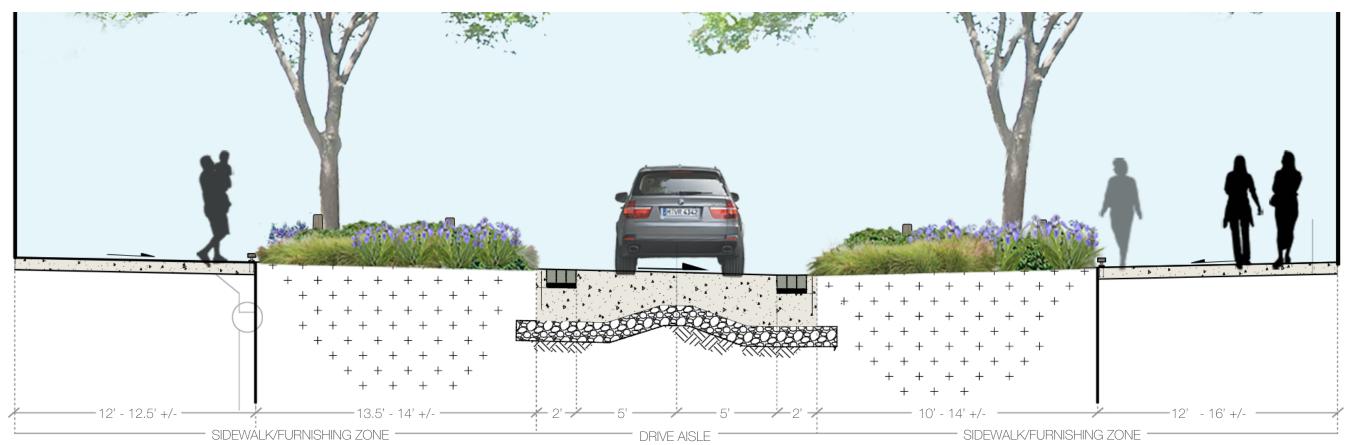


### MATERIALS



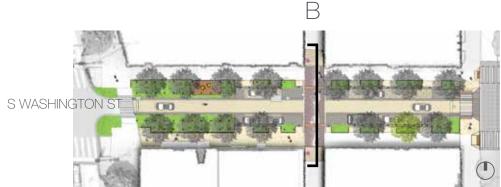


#### SECTION A











#### SECTION B



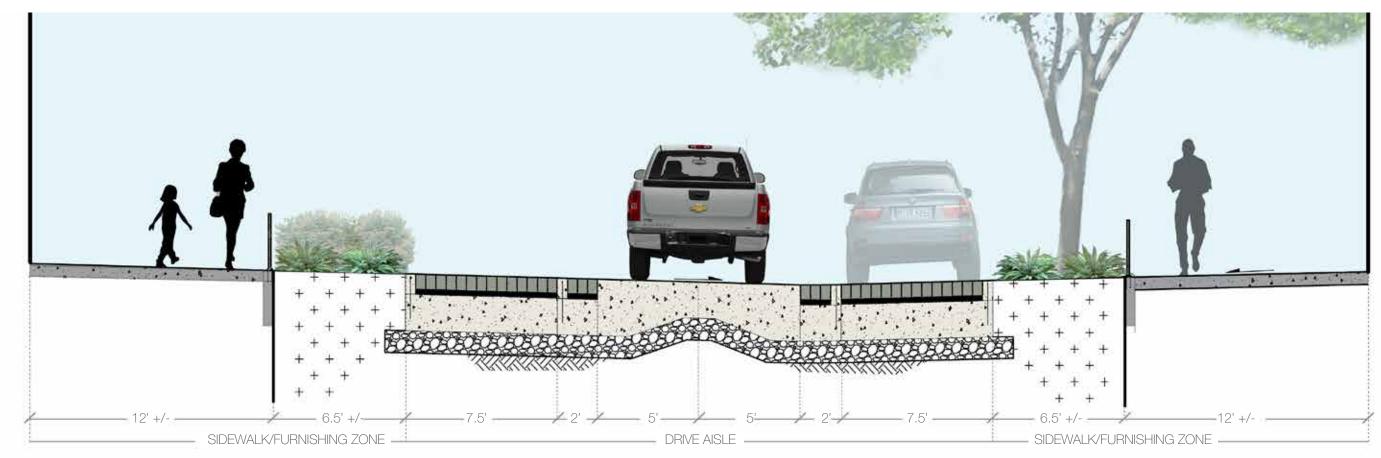


### MATERIALS





#### SECTION C



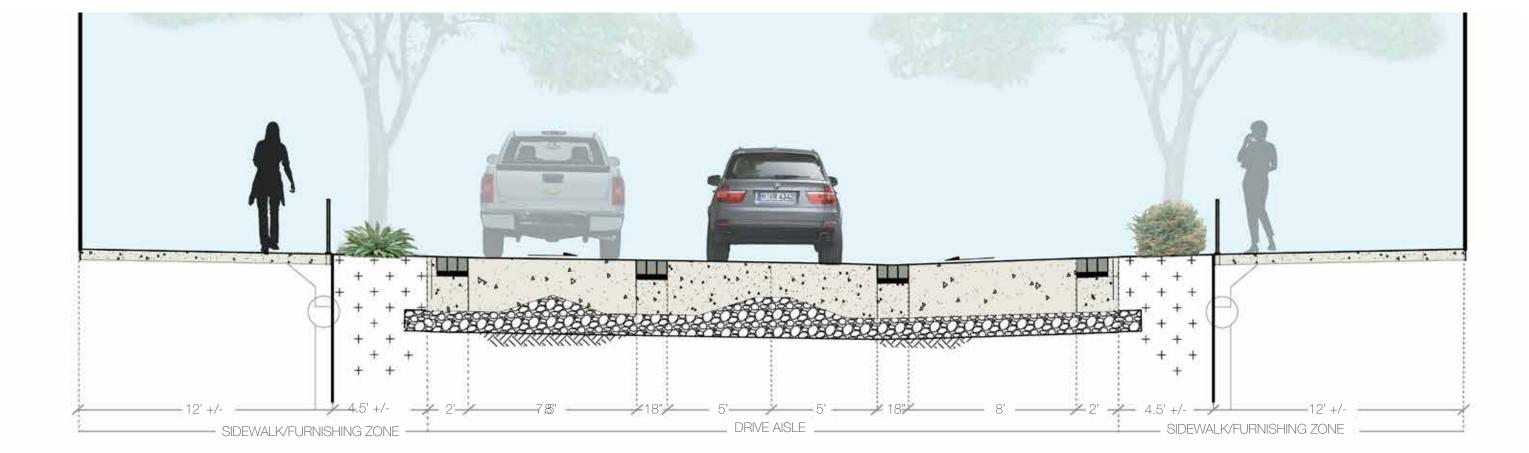








#### SECTION D





# SWASHINGTON STREET EXISTING

Barre S

POINTER PET part & augusta



# S WASHINGTON ST PERSPECTIVE

2.81 2

AT

PAINTER PER

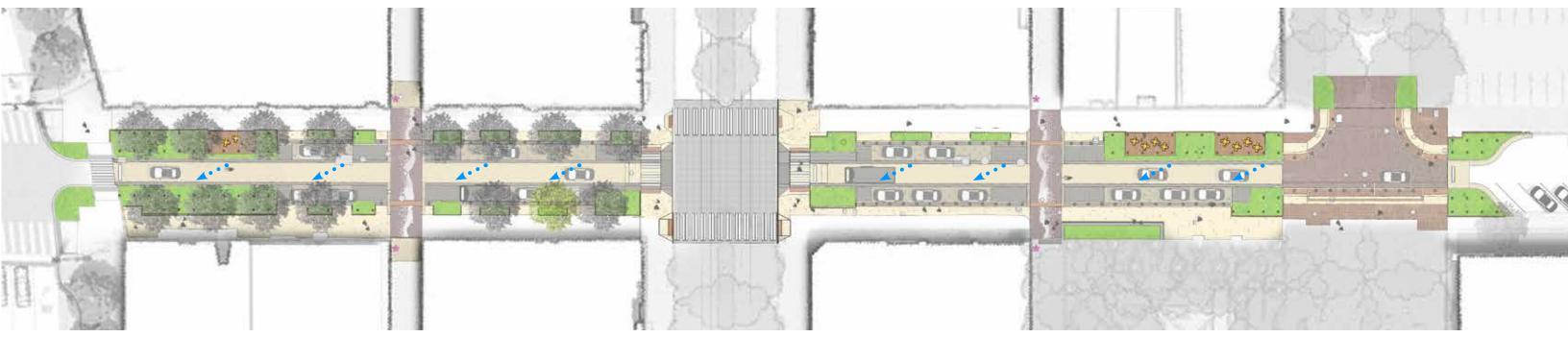
影

W

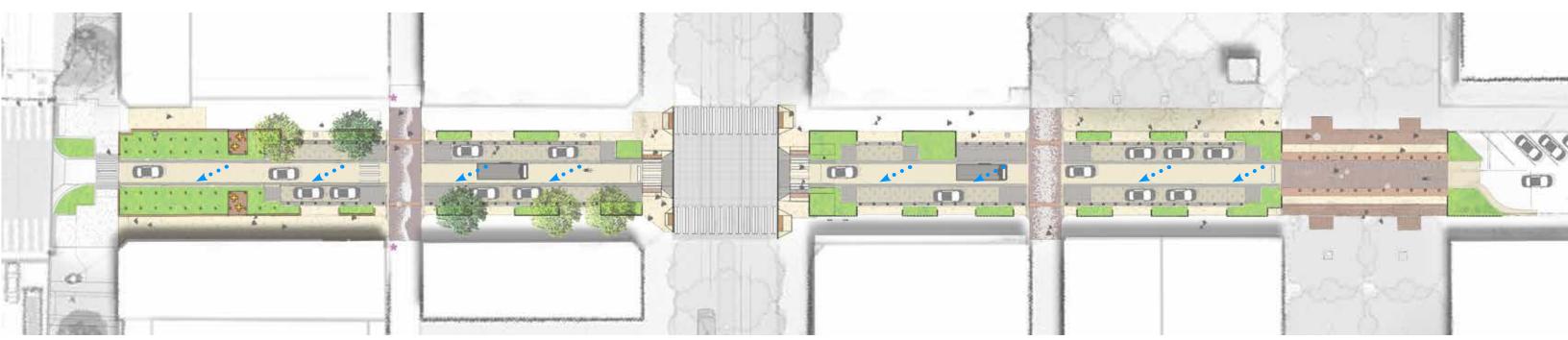


### DRAINAGE PLAN

WASHINGTON ST



MAIN ST



# FIRST AVENUE INTERSECTIONS

#### FIRST AVENUE AT WASHINGTON STREET

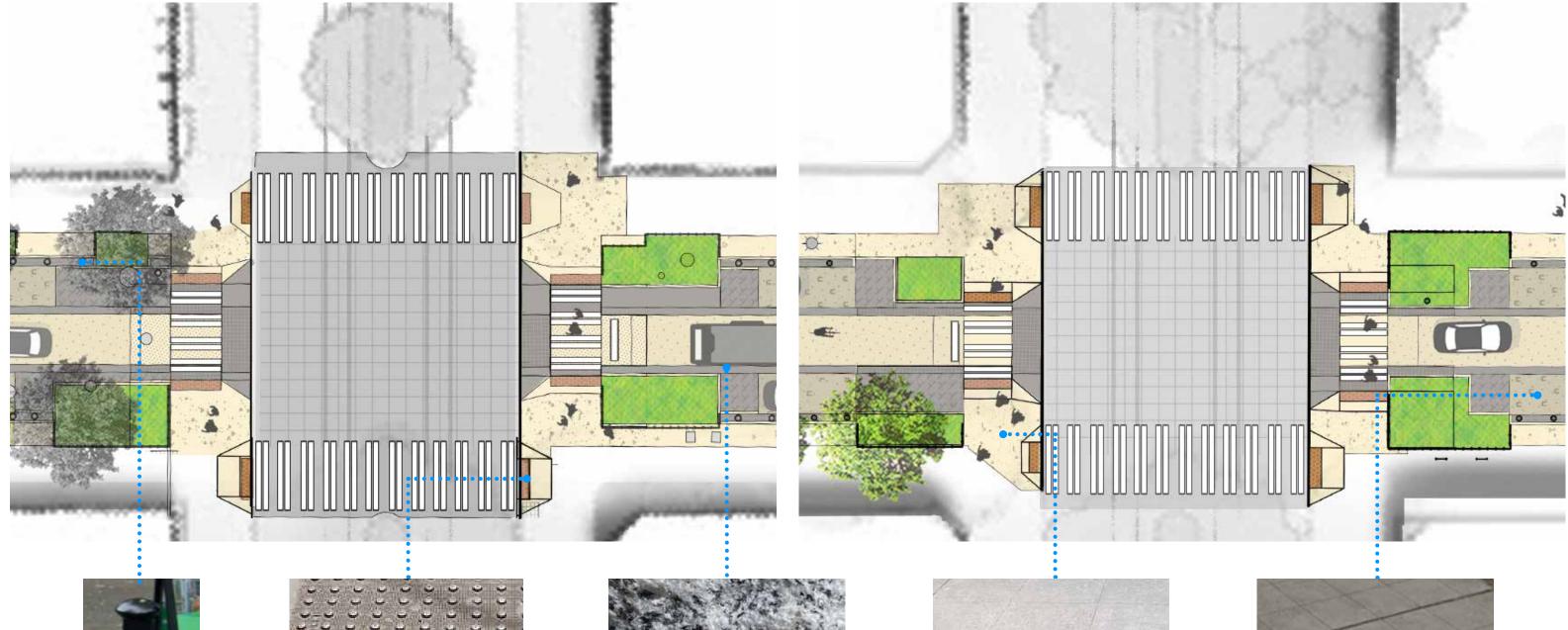
#### FIRST AVENUE AT MAIN STREET



## FIRST AVENUE MATERIALS

FIRST AVENUE AT WASHINGTON STREET

#### FIRST AVENUE AT MAIN STREET





BOLLARDS

TACTILE WARNING STRIP



SPLIT FACE COBBLE

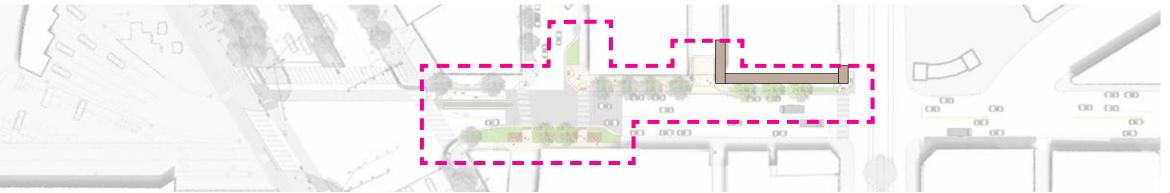
CONCRETE PAVING



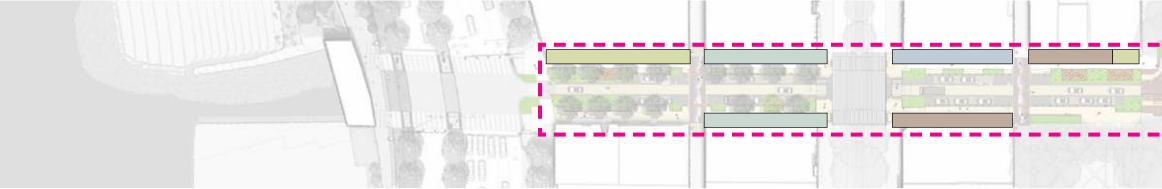
#### CONCRETE PAVING

# AREAWAY CONDITIONS

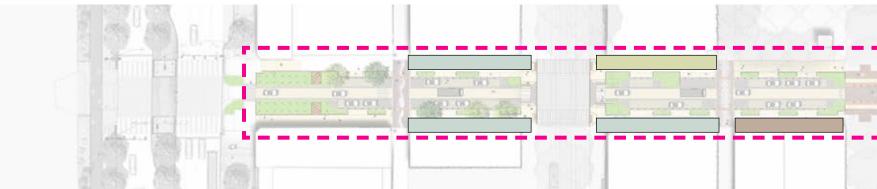
YESLER WAY



#### WASHINGTON ST



#### MAIN ST



#### KING ST

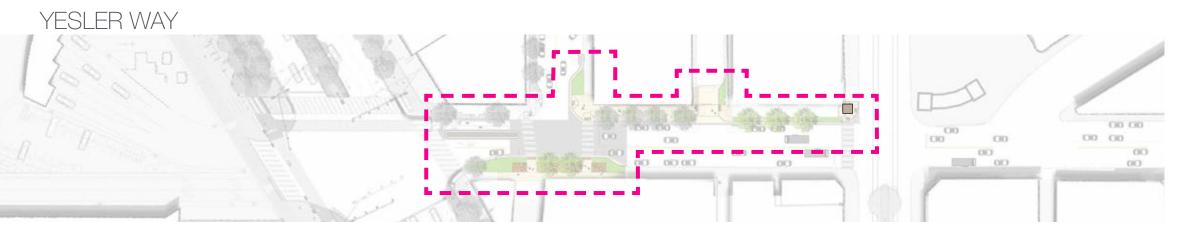


PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

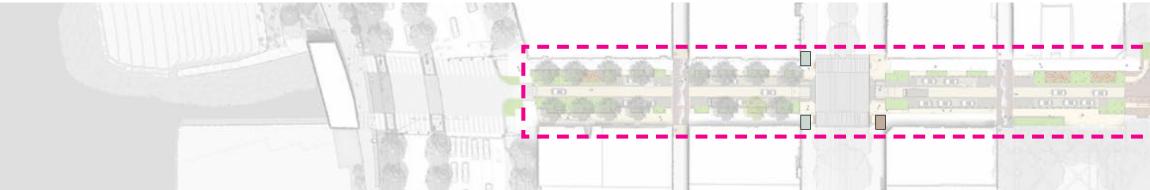


NOVEMBER 202<sup>-</sup> MIC

# AREAWAY CONDITIONS AT IMPACTED AREAWAYS



#### WASHINGTON ST



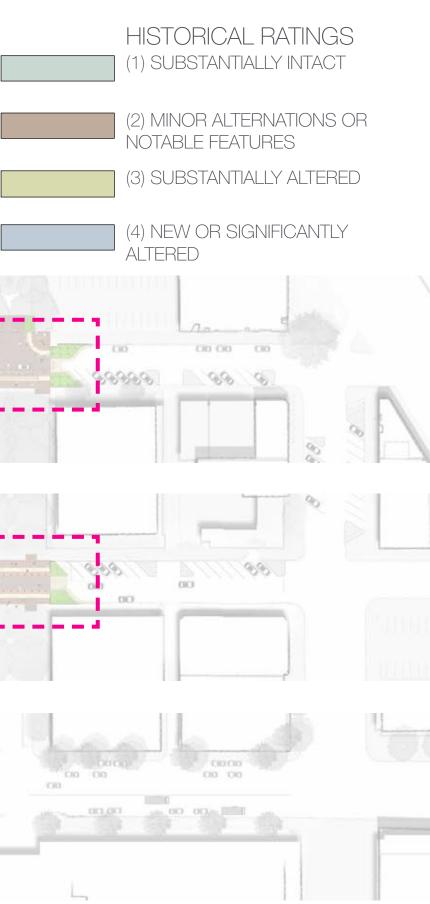
#### MAIN ST



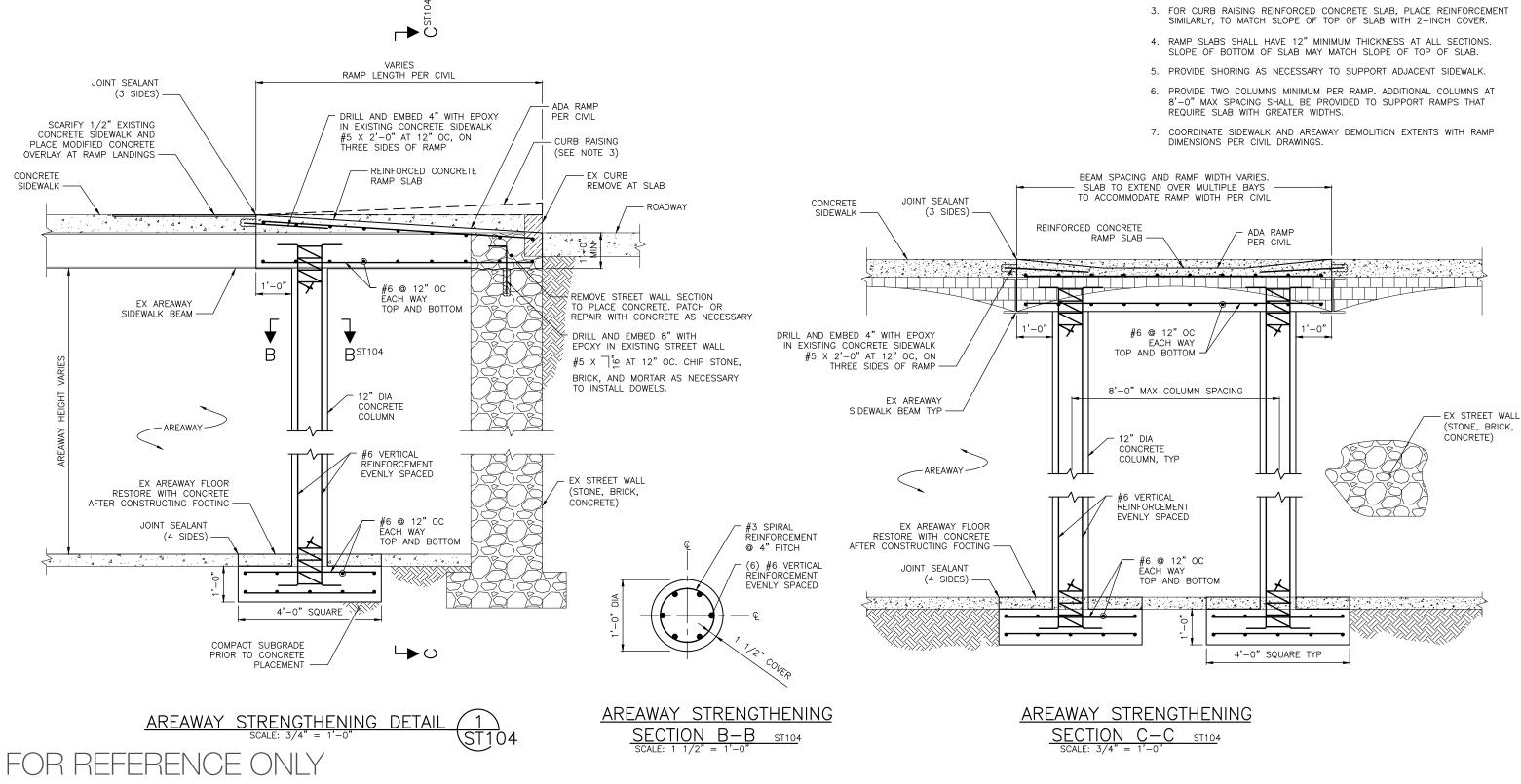
#### KING ST



PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP



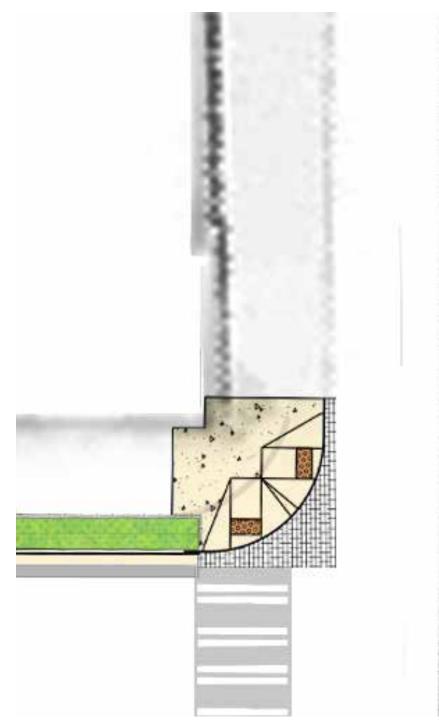
### **AREAWAY SUPPORT STRATEGY**

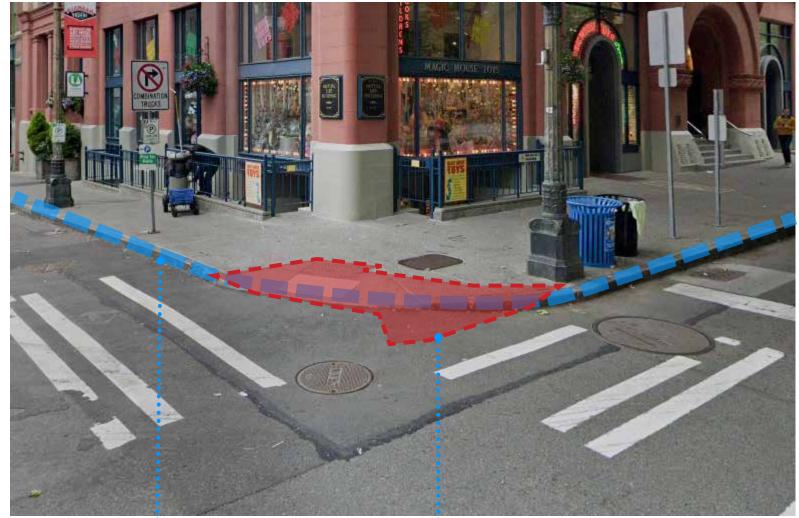


PAICHED WITH MODIFIED CONCRETE OVERLAY WITH 1-1/2 MINIMUM COVER.

ADA RAMP AREAWAY STRENGTHENING DETAILS

### YESLER AREAWAY



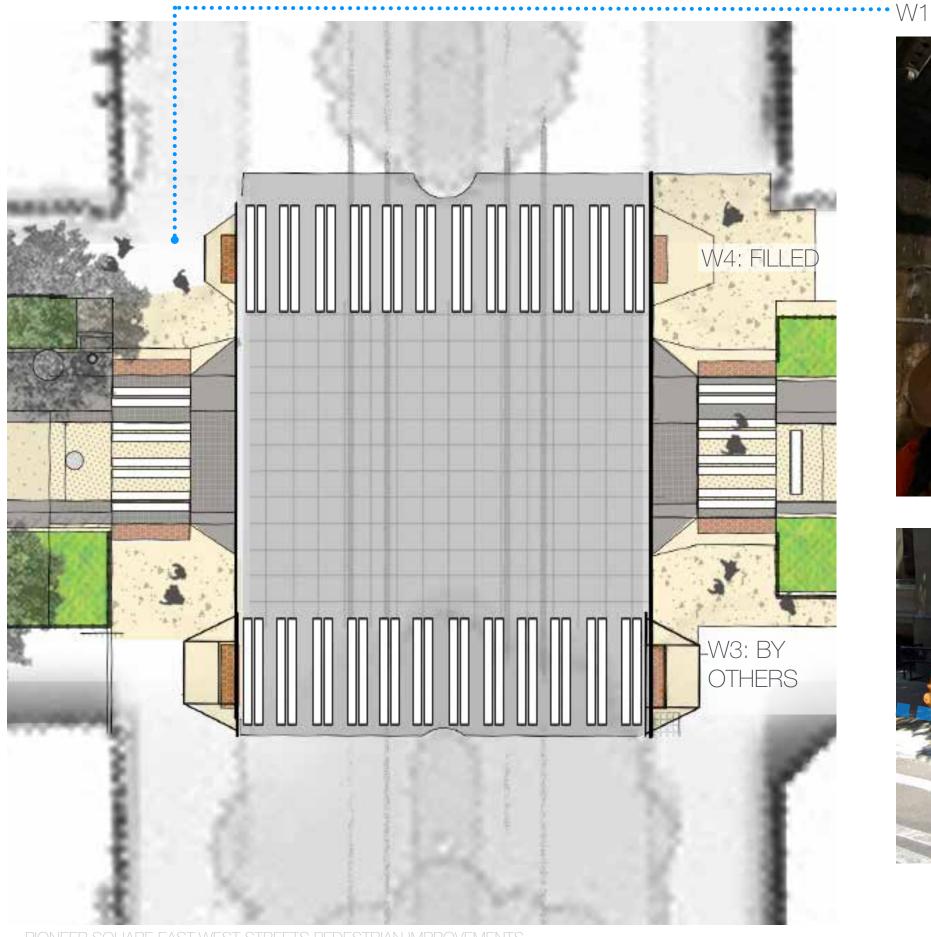


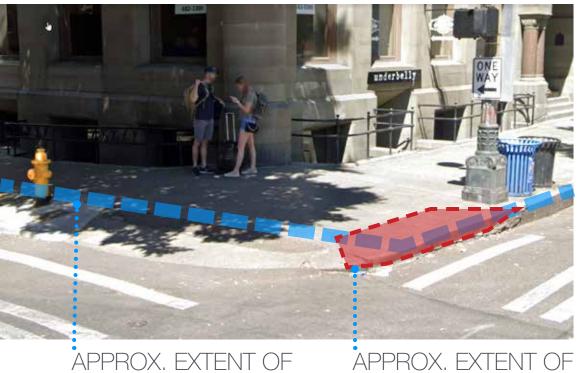
APPROX. EXTENT OF AREAWAY

IMPROVEMENTS

# APPROX. EXTENT OF

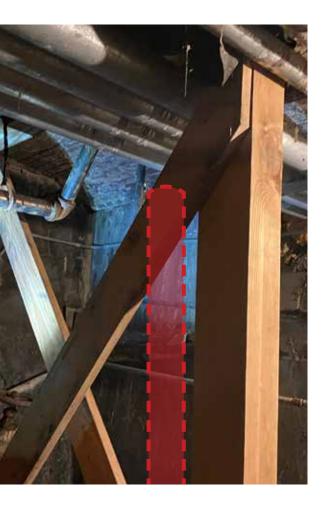
# WASHINGTON STREET AREAWAYS





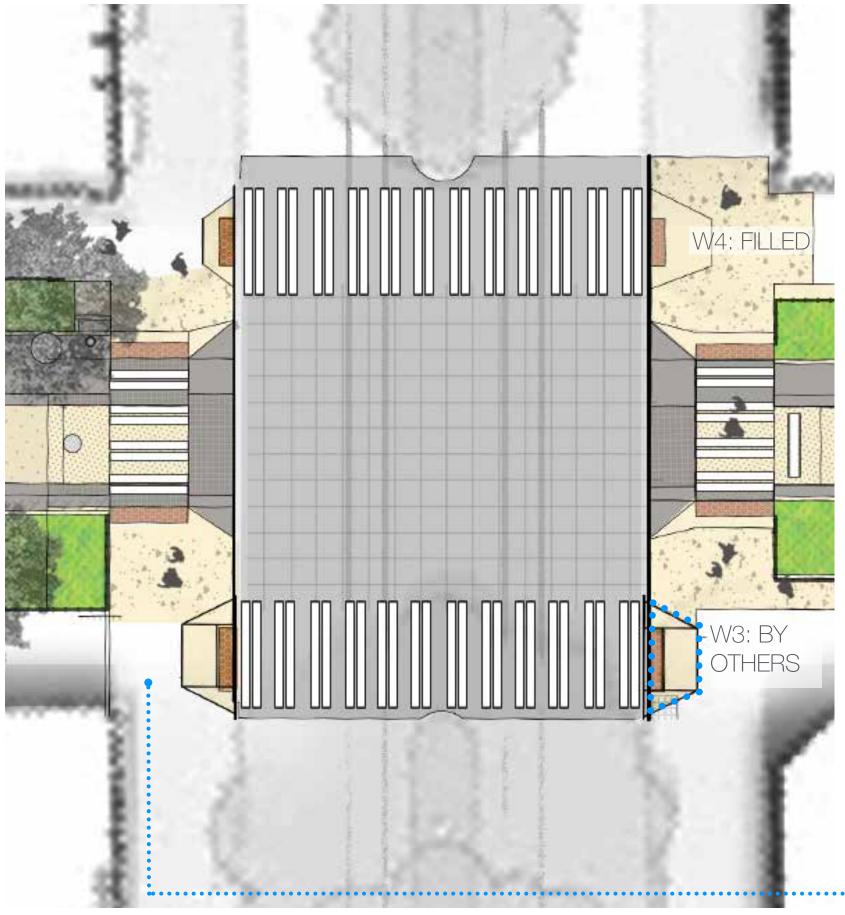
APPROX. EXTENT OF AREAWAY

PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENT:



**IMPROVEMENTS** 

# WASHINGTON STREET AREAWAYS



APPROX. EXTENT OF AREAWAY



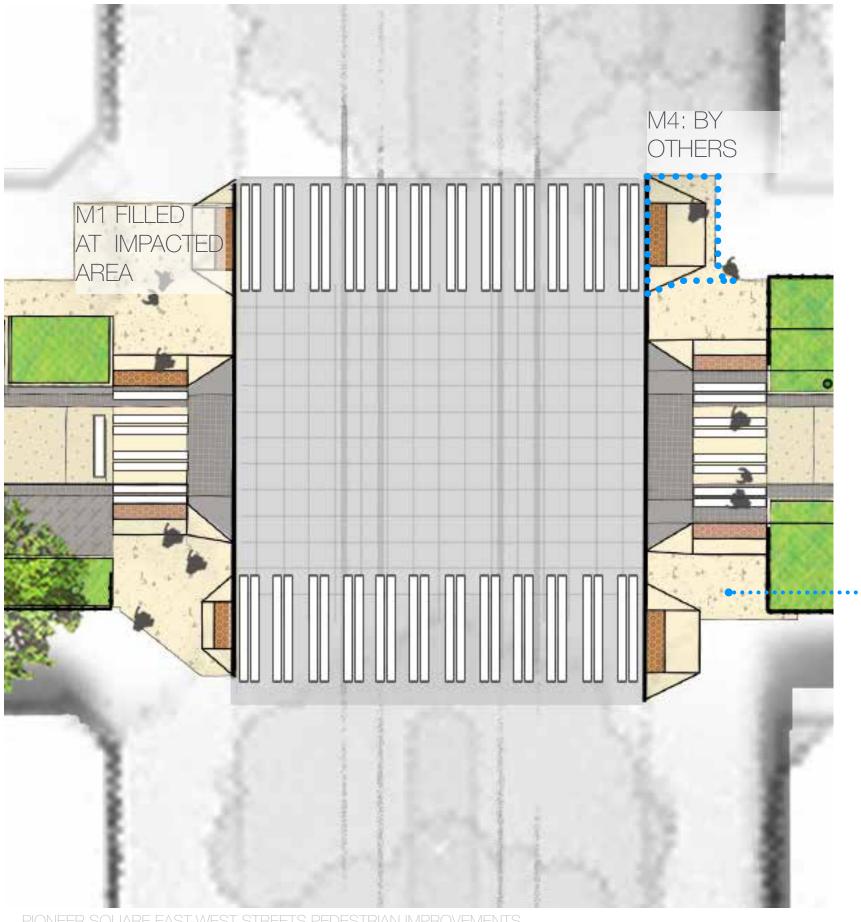


W2

PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

### APPROX. EXTENT OF IMPROVEMENTS

### S MAIN STREET AREAWAYS



M3





APPROX. EXTENT OF AREAWAY

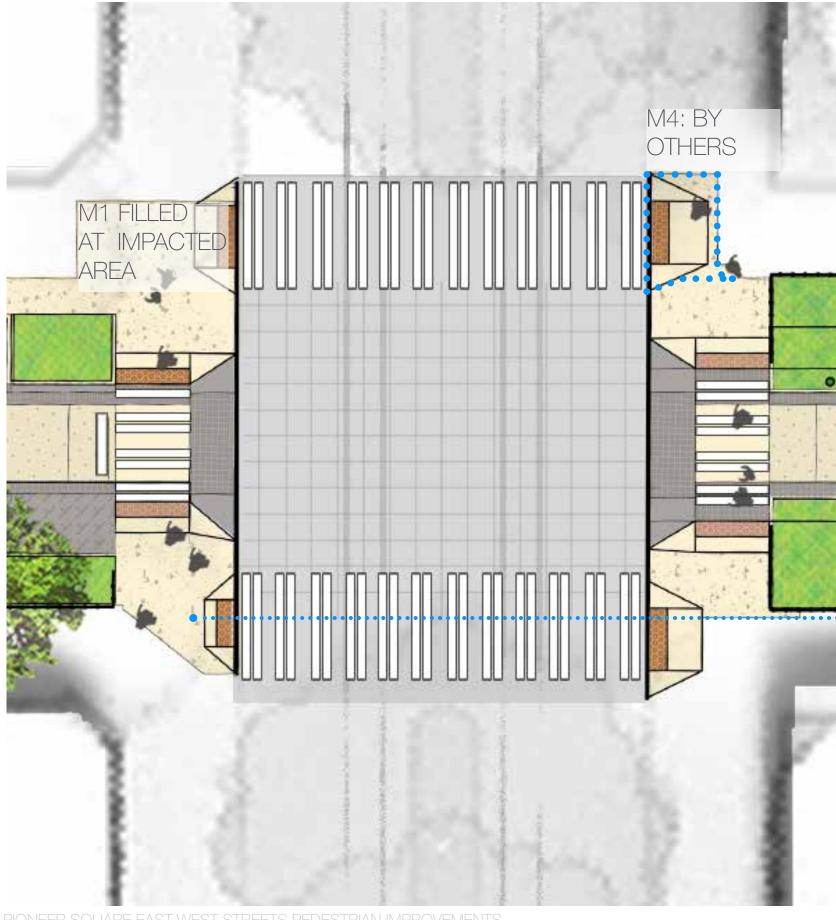
PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

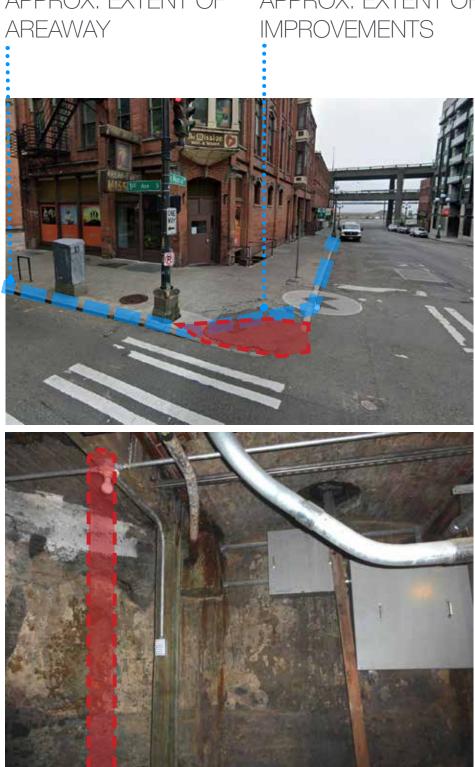


APPROX. EXTENT OF

IMPROVEMENTS

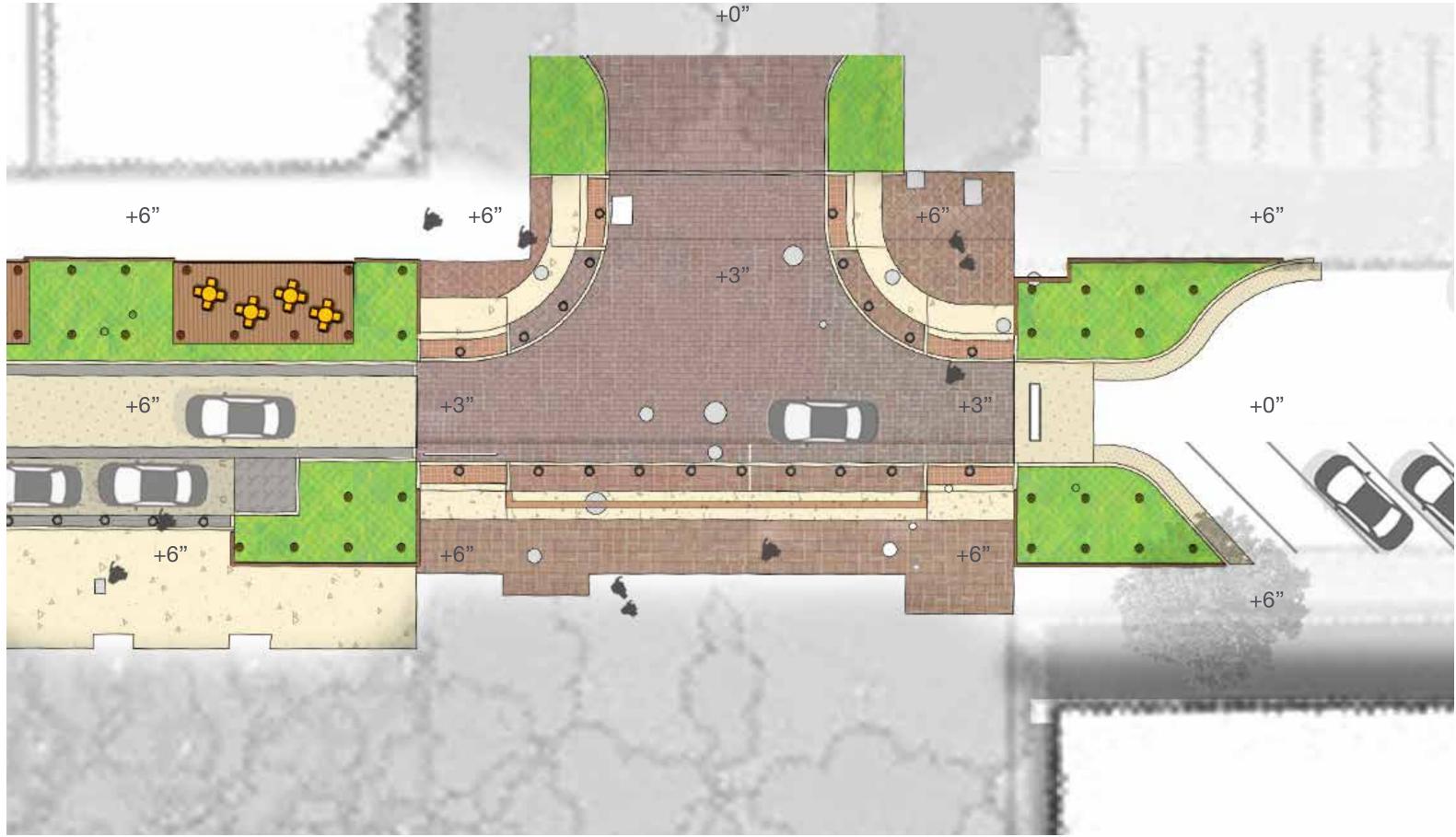
### **S MAIN STREET AREAWAYS**







### **OCCIDENTAL MALL AT S WASHINGTON STREET**





## **OCCIDENTAL MALL AT S WASHINGTON STREET MATERIALS**



Color/Style: Chestnut

Color/Style: Roman Clay Paver - Mauna Loa color

### **OCCIDENTAL MALL AT S WASHINGTON STREET MATERIALS**





SALVAGED SANDSTONE Supplier: SDOT Material Yard

#### **GRANITE TOP SLAB**



ROCKVILLE WHITE GRANITE Supplier: Cold Spring Granite

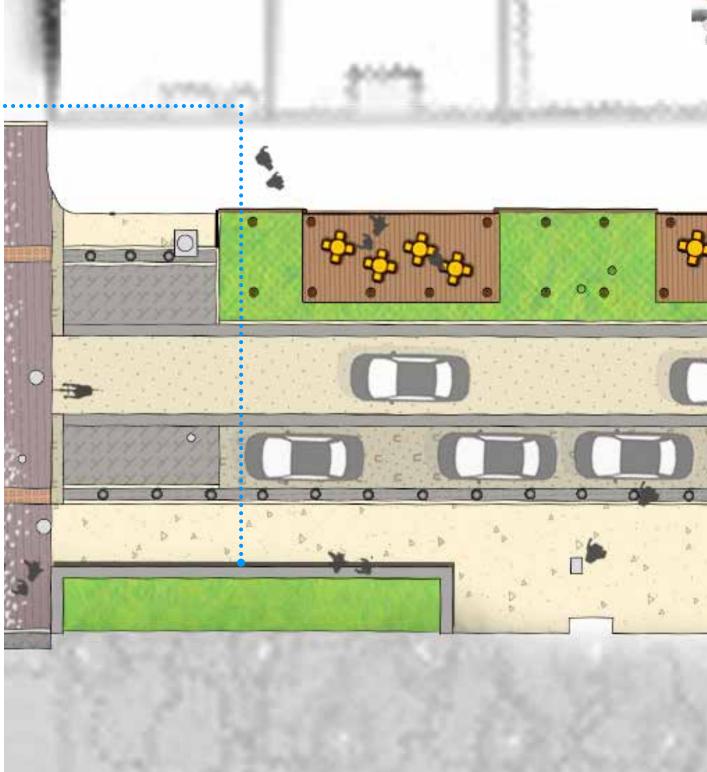


BLACK GRANITE

Supplier: Marenkos

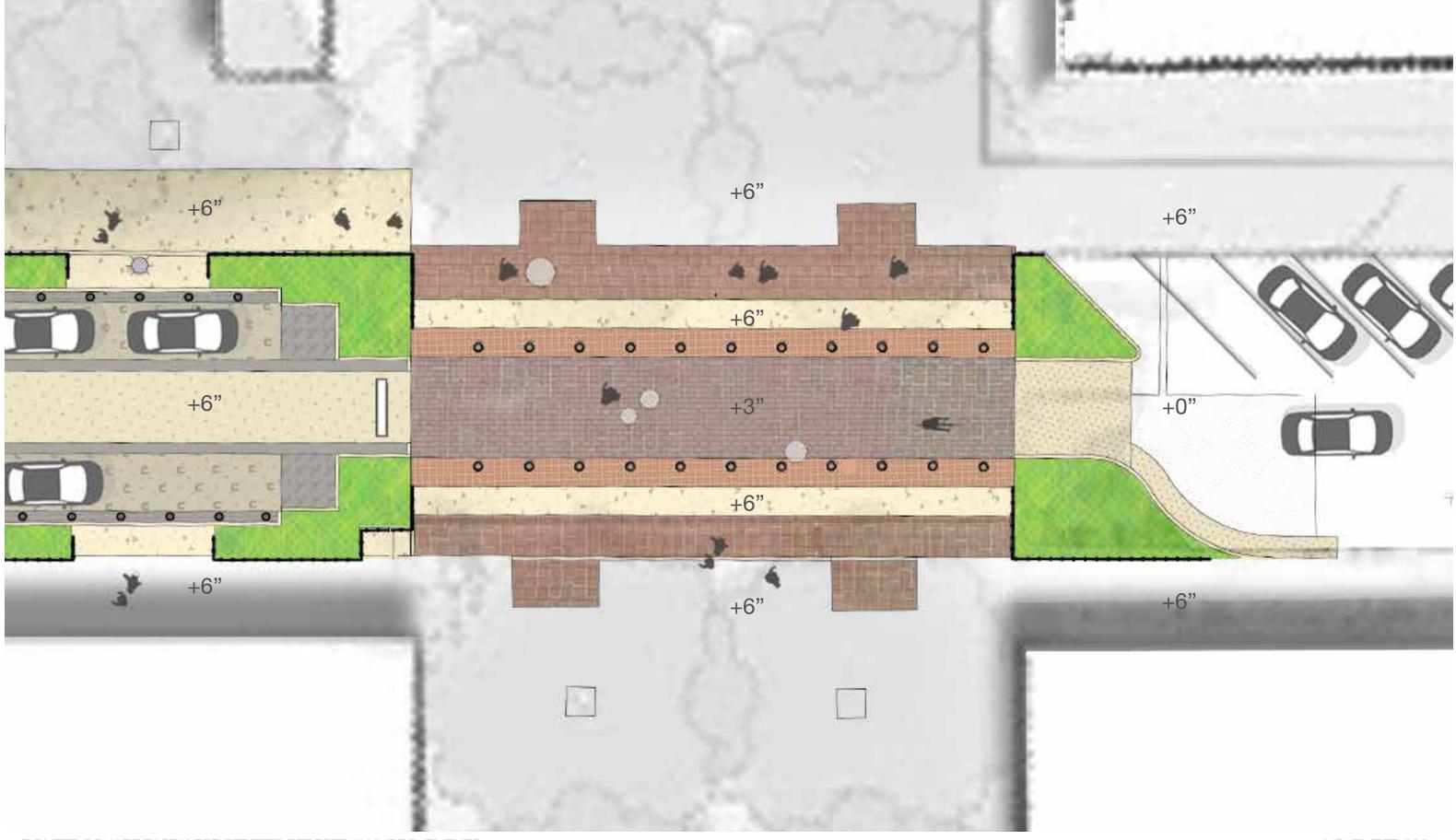
Supplier: Stoneyard

OCEAN BLUE GRANITE



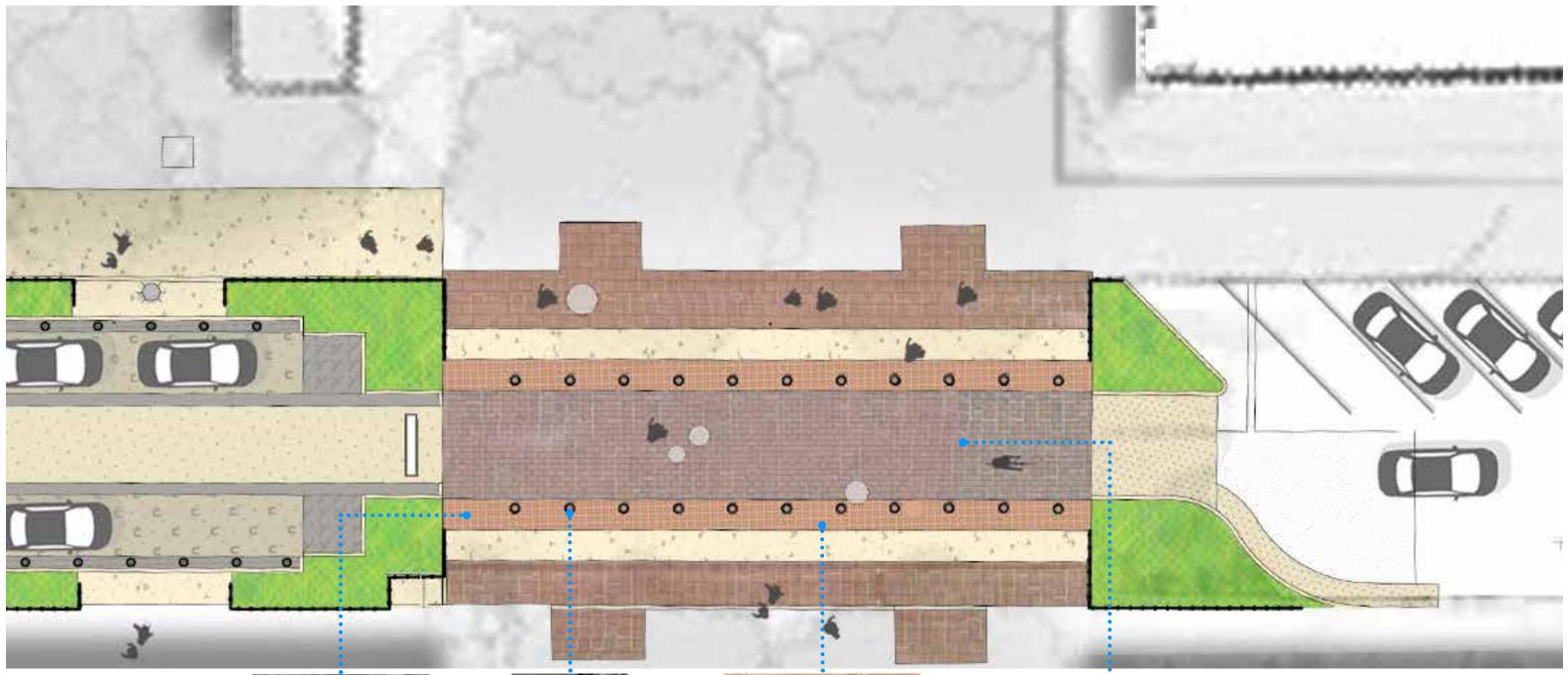


### OCCIDENTAL MALL AT S MAIN STREET



PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP

### **OCCIDENTAL MALL AT S MAIN STREET MATERIALS**





TACTILE WARNING STRIP



BOLLARDS



1.5" CLAY PAVER Supplier: Mutual Materials Color/Style: Chestnut



NEW BRICK PAVER Supplier: Mutual Materials Color/Style: Roman Clay Paver - Mauna Loa color



# S MAIN STREET EXISTING

DRYGOODS

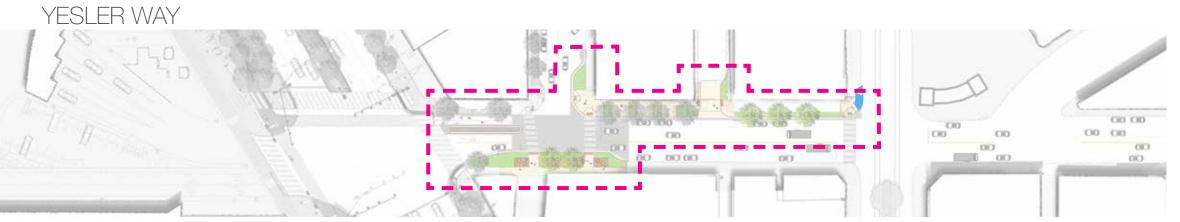


# S MAIN STREET PROPOSED

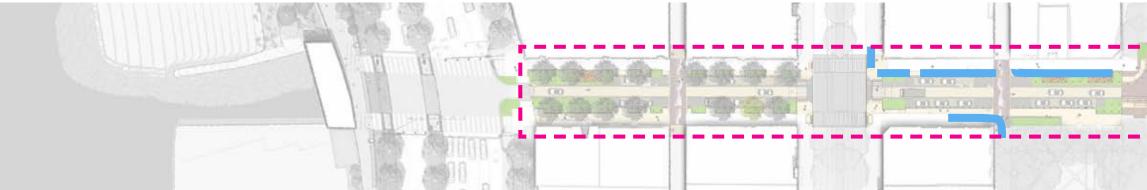
DRYGOOD



## **EXISTING GRANITE CURBS**



#### WASHINGTON ST



#### MAIN ST

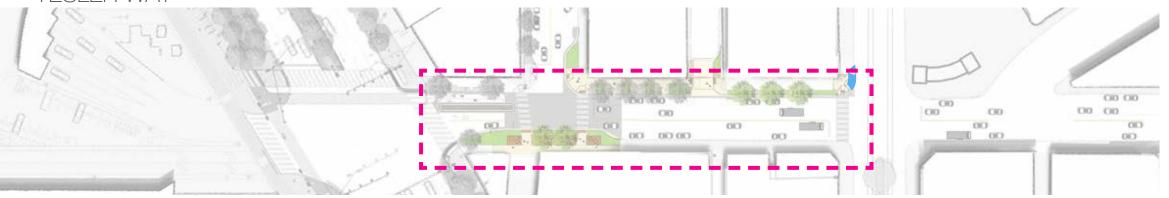


#### KING ST



### **GRANITE CURBS TREATMENT**

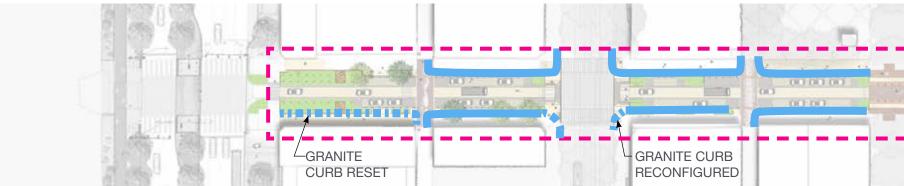
YESLER WAY



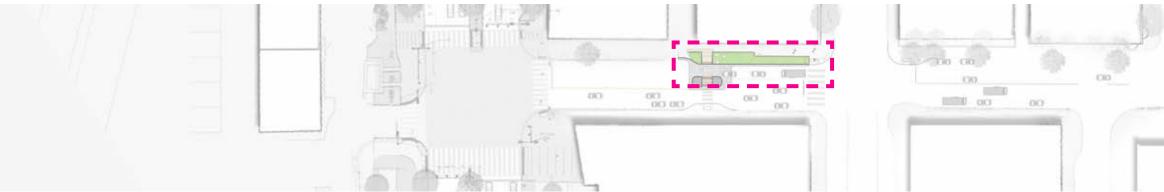
#### WASHINGTON ST



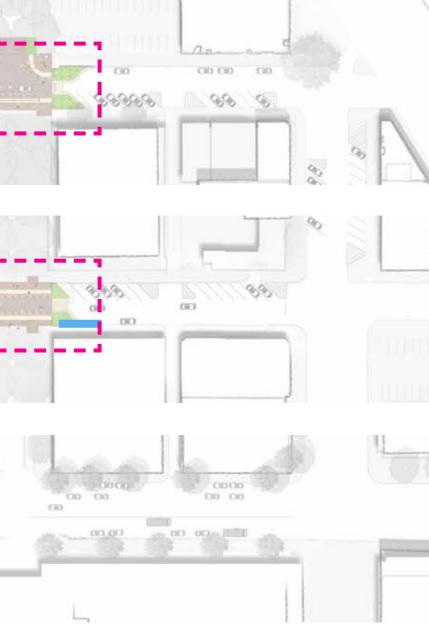
#### MAIN ST



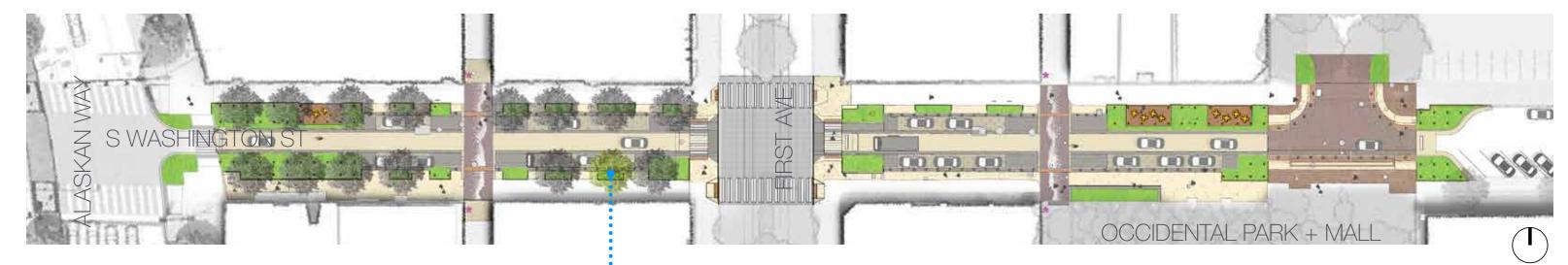
#### KING ST



PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS OWCP



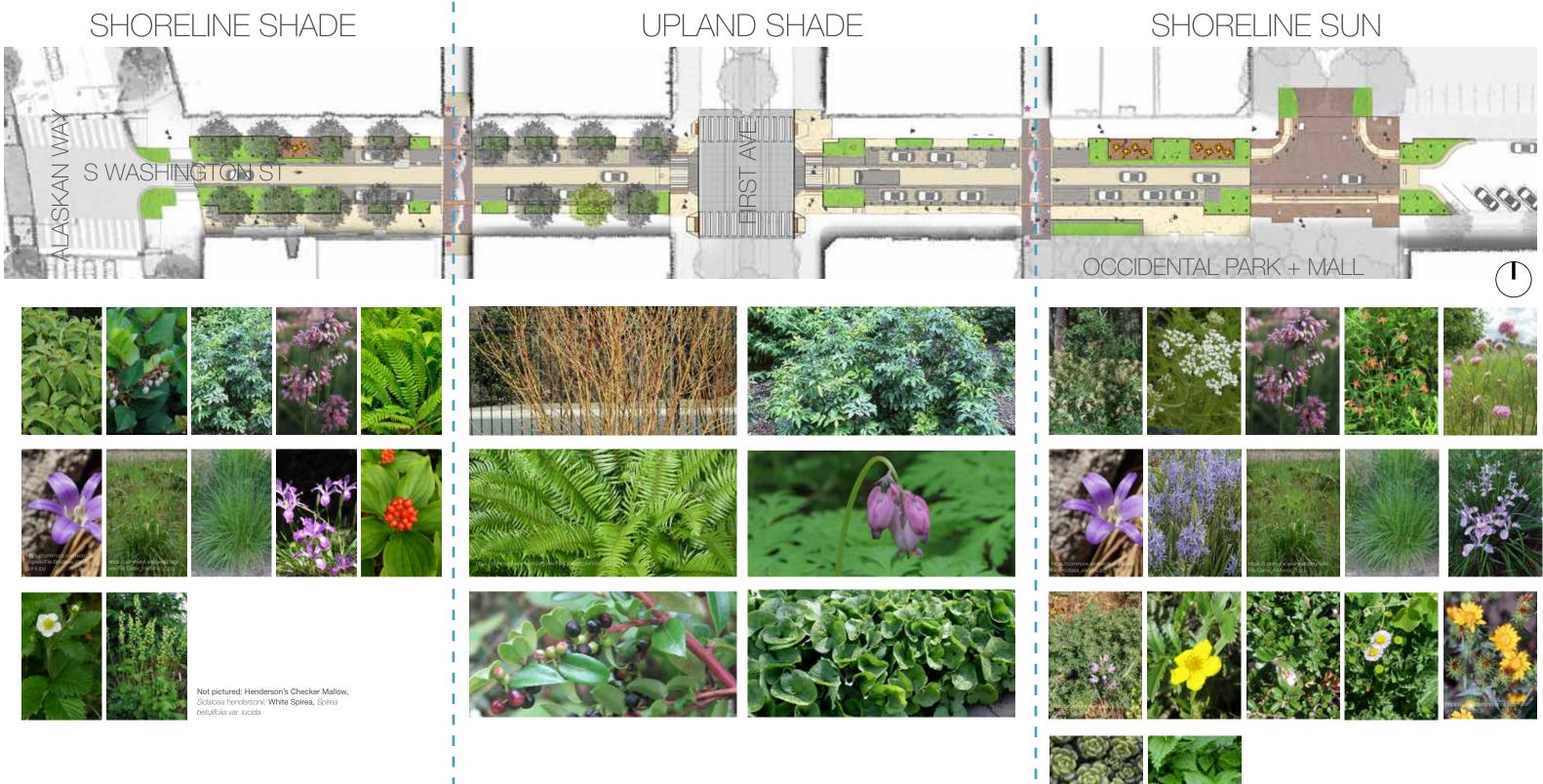
# S. WASHINGTON STREET TREES





'GREENSPIRE' LITTLELEAF LINDEN TILIA CORDATA 'GREENSPIRE'

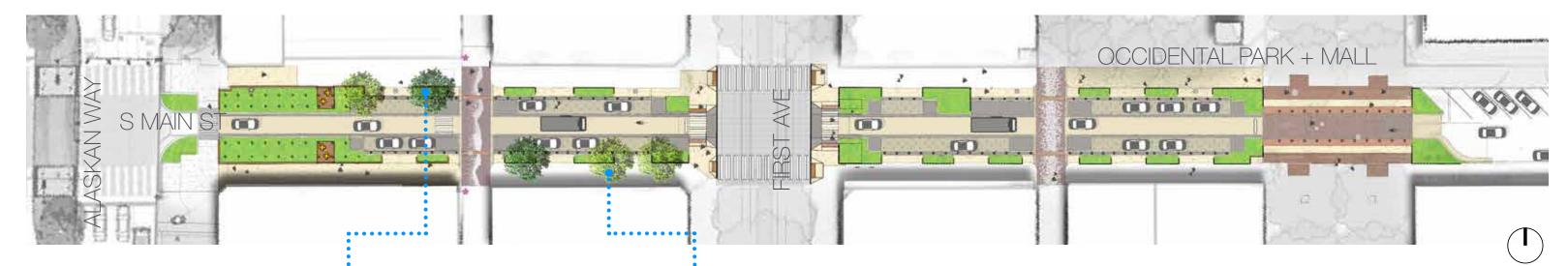
# S. WASHINGTON STREET UNDERSTORY PLANT COMMUNITIES





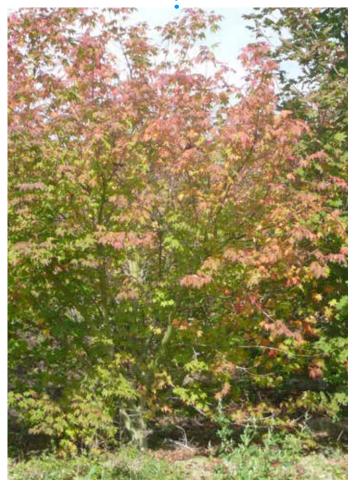
Not pictured: White Spirea, Spirea ulifolia var. lucida

## S. MAIN STREET TREES





SHORE PINE PINUS CONTORTA VAR. CONTORTA



'PACIFIC FIRE' VINE MAPLE ACER CIRCINATUM 'PACIFIC FIRE'

# S. MAIN STREET UNDERSTORY PLANT COMMUNITIES



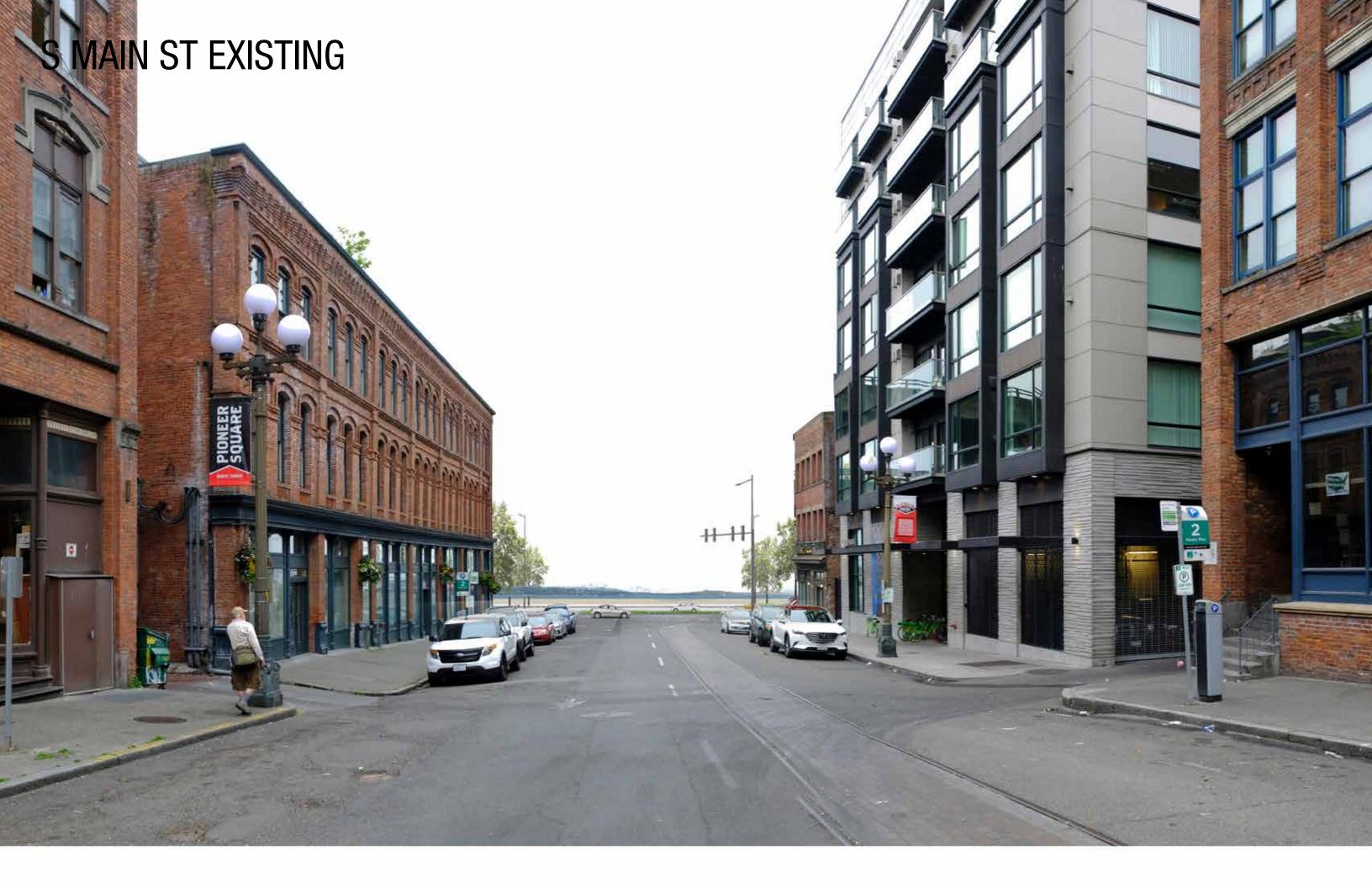
PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS



### SITE FURNISHINGS







S MAIN ST PERSPECTIVE

1

11-11

J,



## S KING STREET

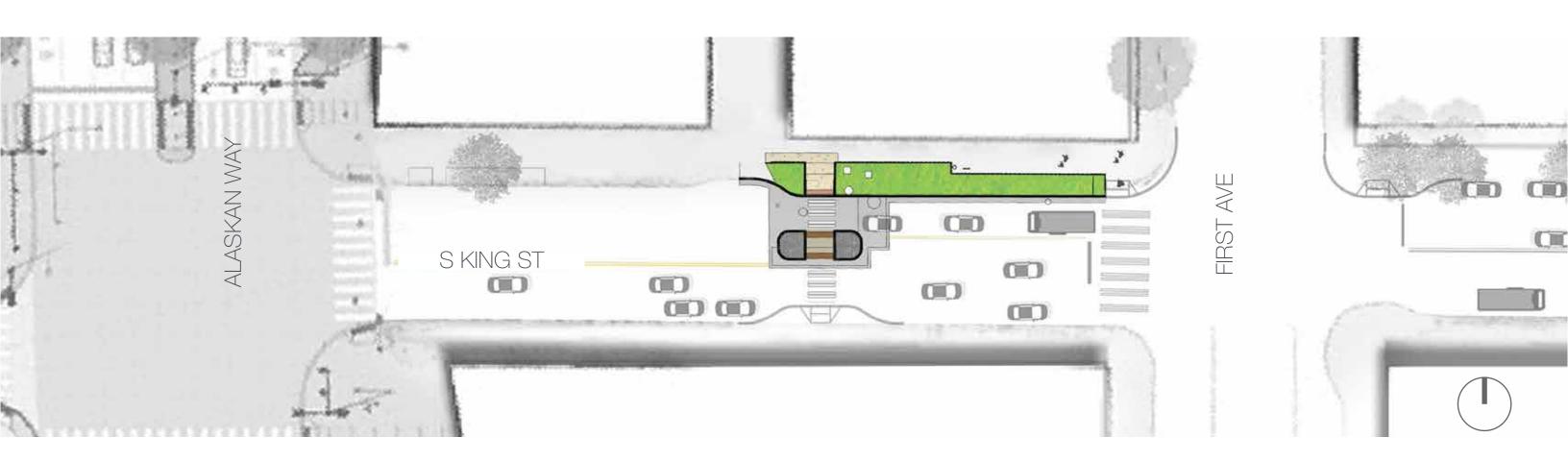
# EXISTING CONDITIONS: KING STREET







### S KING STREET PLAN





PACIFIC PURPLE MAPLE ACER CIRCINATUM 'PACIFIC PURPLE'

PRIVET HONEYSUCKLE LONICERA PILEATA TUFTED HAIR GRASS DESCHAMPSIA CESPITOSA

YARROW ACHILLEA MILLEFOLIUM 'MOONSHINE'



KINNIKINNICK ARCTOSTAPHYLOS UVA-URSI

### PIONEER SQUARE EAST-WEST STREETS PEDESTRIAN IMPROVEMENTS BRIEFING

PIONEER SQUARE PRESERVATION BOARD BRIEFING NOVEMBER 2021



MIG | PERTEET | STUDIO MATTHEWS | HEFFRON TRANSPORTATION | CONCORD | HWA | WHPACIFIC | CHUDGAR