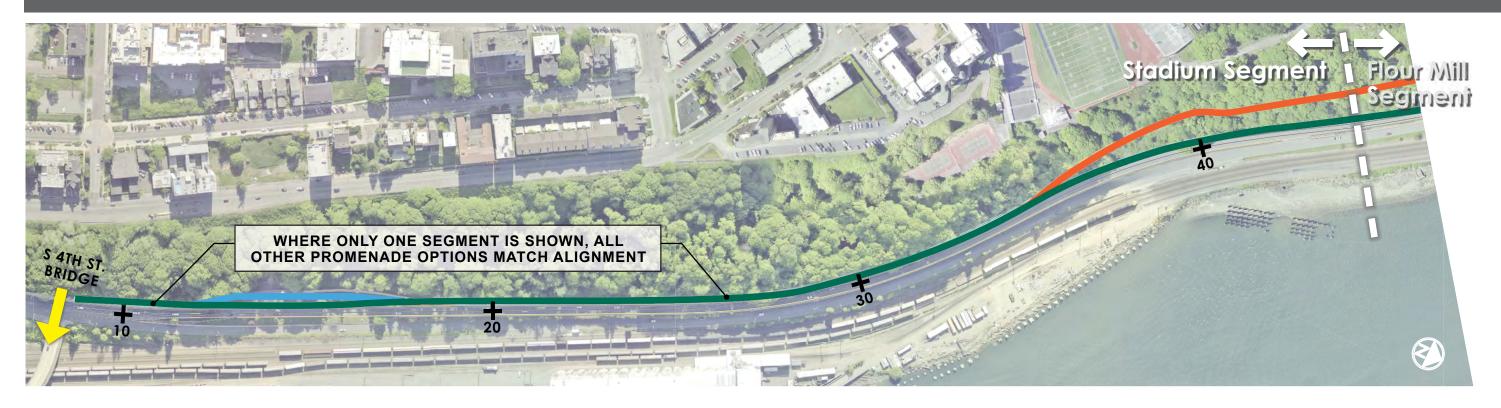
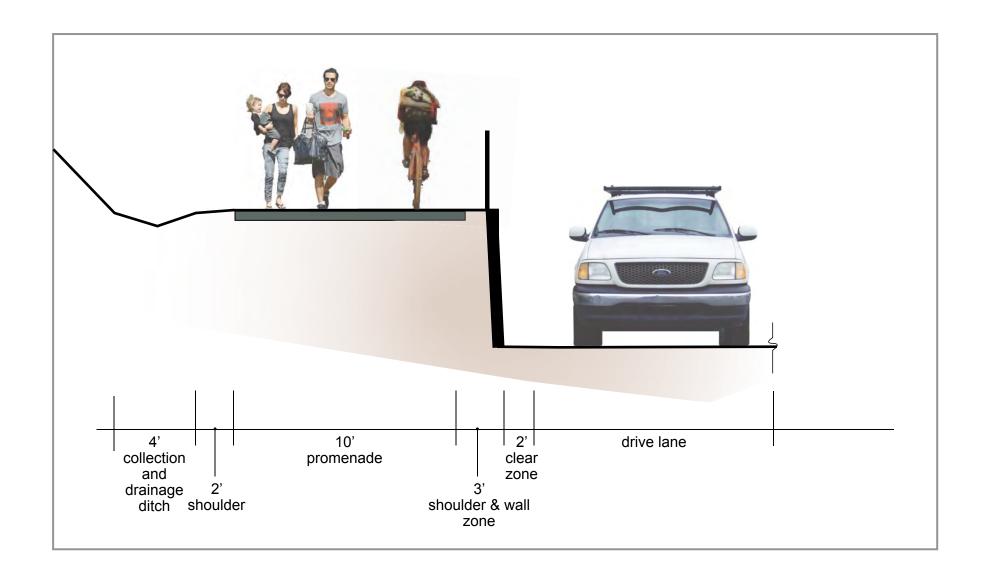
Schuster 2018 Alignment Presentation 6/5/2018

Plan View with Promenade Segments





Typical Promenade Section



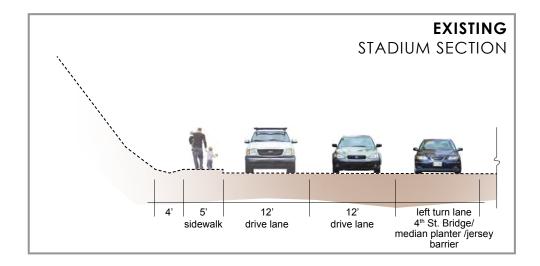
REQUIREMENTS

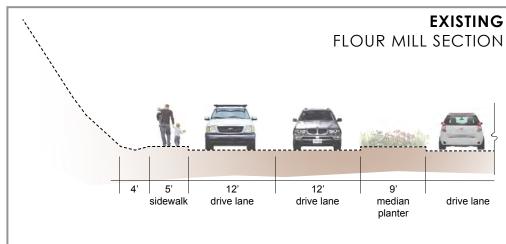
- ADA GRADE GOAL LESS THAN 5%
- AT GROUND SURFACE AT 4TH STREET BRIDGE
- AT GROUND SURFACE ACROSS GARFIELD GULCH
- AT GROUND SURFACE INTO OLD TOWN
- BNSF REQUIREMENT MSE WALLS WILL REQUIRE VARIANCE
- BNSF CLEARANCE FOR OVERCROSSINGS 24 FEET ABOVE TRACKS

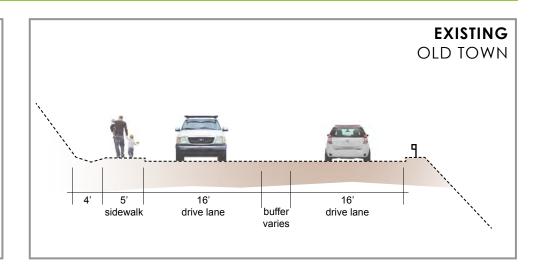
PRELIMINARY GEOTECHNICAL GUIDELINES

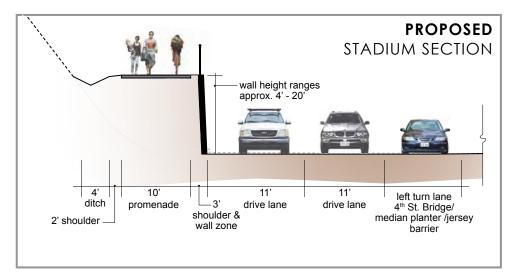
- MINIMIZE CUTS ALONG SLOPE IN STADIUM WAY SEGMENT
- 1H:1V TEMPORARY CUT ALLOWABLE FOR WALL CONSTRUCTION
- MAXIMUM SLOPE LENGTH WITHOUT BENCH SIMILAR TO EXISTING
- ASSUME PLANNED CUTS NO STEEPER THAN EXISTING
- MAINTAIN SIMILAR FACTOR OF SAFETY FOR SLOPE STABILITY

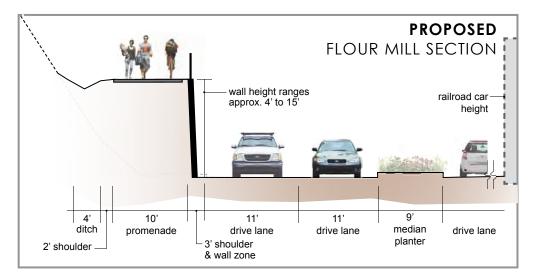
Elevated Causeway Option

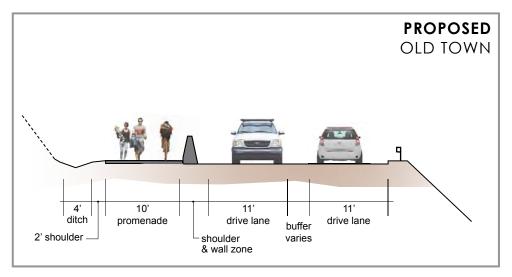










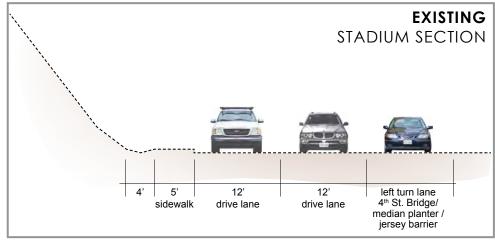


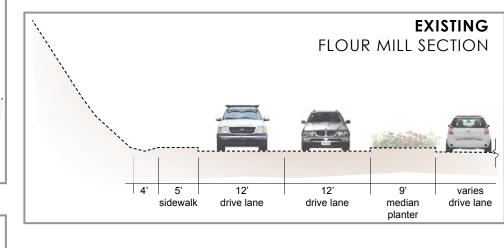


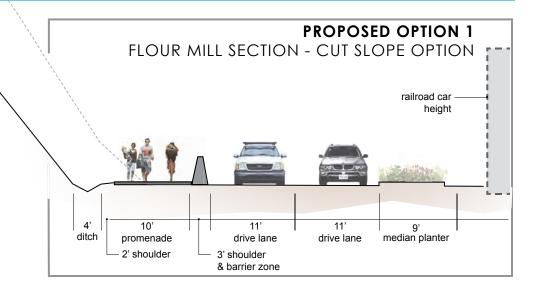
At-Grade Option

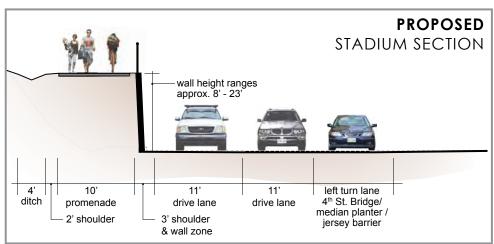
EXCAVATED SOIL VOLUME 1,975 TO 6,525 TRUCKS OR 4.3 TO 9.6 FEET IN TACOMA DOME

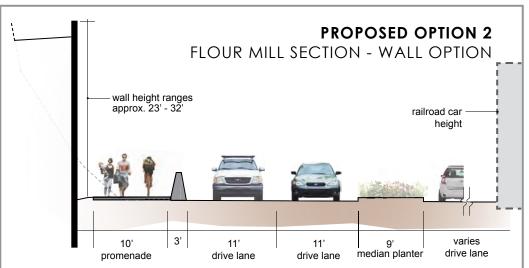
IMPORTED SOIL VOLUME 1,270 TRUCKS OR 2 FEET IN TACOMA DOME





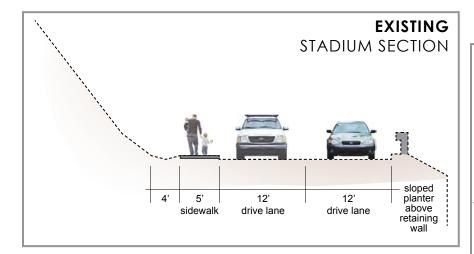


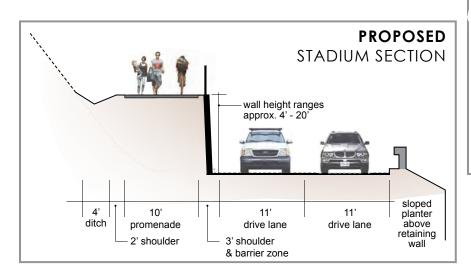


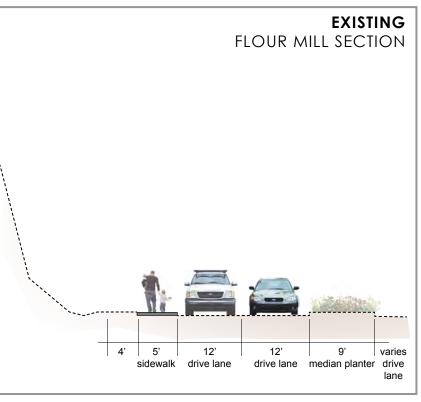


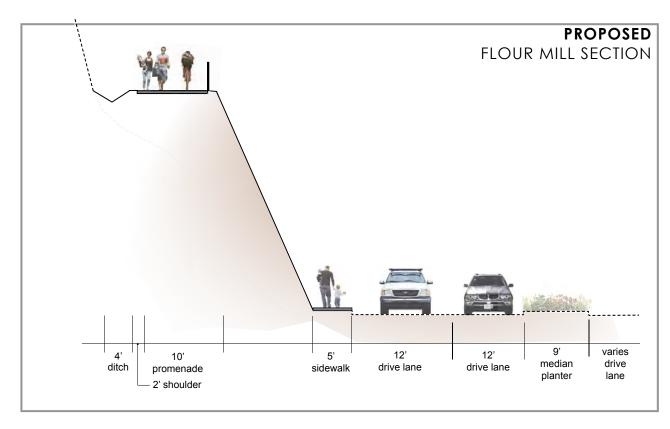


Old Spur Line Option











Example Photos















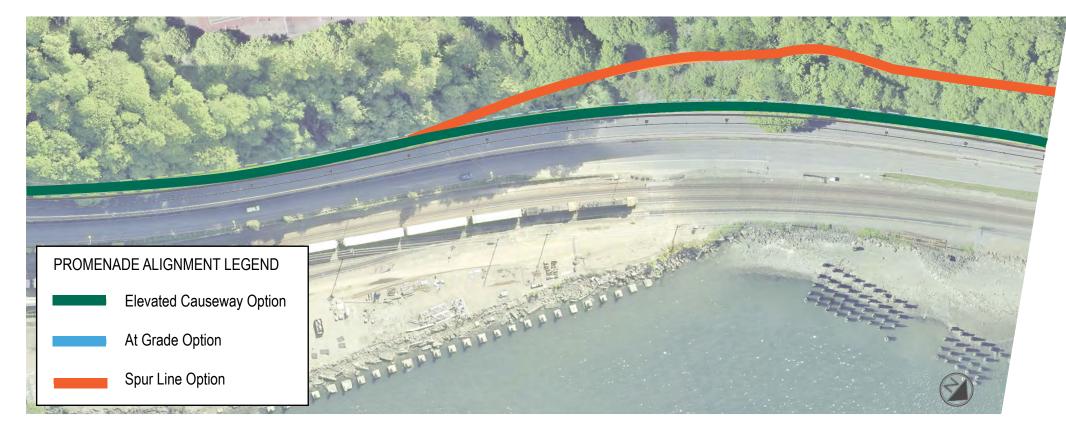






Stadium Segment





STADIUM SEGMENT NOTES:

ALL ALTERNATIVE ALIGNMENTS INCLUDE:

- REQUIREMENT TO BE AT EXISTING GRADE AT SE 4TH ST.
- NO IMPACT TO EXISTING ROADWAY TO MAINTAIN LEFT TURN LANE AND 2 THROUGH LANES AT SE 4TH STREET.
- NO IMPACTS TO EXISTING SLOPE STABILITY.
- UTILIZE TWO AREAS WHERE EXISTING SIDEWALK IS SEPARATED FROM ROAD.
- ACCESS TO LOWER STADIUM BOWL AREA IS IMPACTED. NEW ACCESS FEASIBLE AT STATION 31.

ELEVATED ALTERNATIVE

• NORTH OF STATION 18 ELEVATED PROMENADE UP TO ABOUT 14 FEET IN HEIGHT.

AT-GRADE ALTERNATIVE

- CONFIGURATION IS SAME AS ELEVATED ALTERNATIVE UP TO STATION 31 DUE TO LANDSLIDE, SOIL CREEP, AND DRAINAGE CONCERNS.
- BEYOND STATION 31 TIED BACK SOLDIER PILE WALL, HEIGHT UP TO 32 FEET.

ROAD DIET ALTERNATIVE (16-FEET LANE)

- BEGINS AFTER STATION 18.
- MINIMAL IMPACTS TO EXISTING SLOPE.

SPUR LINE ALTERNATIVE

- BEGINS AFTER STATION 31.
- SIMILAR TO ELEVATED ALTERNATIVE BUT INCREASES IN HEIGHT UP TO SPUR LINE BENCH AFTER STATION 31.
- SHORING WALL REQUIRED IN SOME NARROW AREAS, HEIGHT UP TO 20 FEET.
- SPUR LINE BENCH AFTER STATION 31.

Flour Mill Segment





FLOUR MILL SEGMENT NOTES:

ALL ALTERNATIVE ALIGNMENTS INCLUDE:

- MID-SLOPE SURFACE DRAINAGE IMPROVEMENTS TO ADDRESS DRAINAGE.
- SLOPE REGRADING RECOMMENDED TO ADDRESS VERTICAL SLOPES BETWEEN 47 TO 53+50.
- REQUIREMENT TO BE AT GRADE AT GARFIELD GULCH.
- NO IMPACTS TO EXISTING SLOPE STABILITY.

ELEVATED ALTERNATIVE

- WALL HEIGHTS UP TO ABOUT 12 TO 20-FEET, COULD BE REDUCED BY ABOUT HALF IF MEDIAN IS RECONFIGURED AND LANES NARROWED BETWEEN 43 TO 62.
- WITH WALL HEIGHTS BELOW 20 FEET IT IS STILL DIFFICULT TO SEE OVER TRAIN CAR.
- WALL HEIGHT REQUIRED TO SUPPORT FUTURE CROSS OVER TO WATERFRONT ABOUT 28 FEET HIGH FOR CLEARANCE.

AT-GRADE ALTERNATIVE INCLUDES TWO OPTIONS:

- SLOPE CUT REGRADE SLOPE TO 3/4H:1V, MID SLOPE BENCH, AND 1H:1V SLOPE ABOVE.
- TIED BACK SHORING WALL HIGH ENOUGH TO CREATE 10-FOOT WIDE BENCH BEHIND TOP OF WALL FOR DRAINAGE, EROSION CONTROL, CATCHMENT, AND FACILITATE ACCESS FOR MAINTENANCE. WALL HEIGHT UP TO 32 FEET.
- WALL HEIGHTS CAN BE REDUCED IF MEDIAN IS RECONFIGURED AND LANES NARROWED BETWEEN 43 TO 62.
- ROAD DIET ALTERNATIVE (16-FEET LANE)
- ONLY FEASIBLE UP TO STATION 53+50 TO ACCOMMODATE MERGE FOR N. 30TH STREET AND RUSTON WAY.

SPUR LINE ALTERNATIVE

- UTILIZES SPUR LINE BENCH WHERE IT IS STILL PRESENT, SHORING WALLS AND GRADING REQUIRED.
- PROMENADE SURFACE SLOPES UP TO ELEVATION 80 AT STATION 56 THEN SLOPES DOWN TO GARFIELD GULCH.
- EXISTING ROAD IS AT ABOUT ELEVATION 12.
- NO IMPACTS TO EXISTING LOWER SLOPE/ROAD BETWEEN STATION 37 AND STATION 56.
- REQUIRES TIED BACK SHORING WALL BETWEEN STATIONS 41TO 47 AT NARROW SECTION.
- NORTH OF STATION 56 SLOPE CUT IS REQUIRED TO ESTABLISH BENCH FOR PROMENADE DOWN TO GARFIELD GULCH.
- PROMENADE ELEVATION WOULD SUPPORT FUTURE CROSS OVER TO WATERFRONT NEAR STATION 67.
- SPUR LINE ALTERNATIVE ENDS AT GARFIELD GULCH (STATION 71).

Old Town Segment



PROMENADE ALIGNMENT LEGEND

Elevated Causeway Option

At Grade Option

Spur Line Option

At-Grade Option - Road Diet/Lane Conversion

