



SEATTLE ARENA

JANUARY 17, 2013

DESIGN COMMISSION 2

OPERATIONS & CONTEXT

PLAZA & THE PUBLIC REALM

STREET EDGE ACTIVATION

ARCHITECTURAL CHARACTER

SUSTAINABILITY

INTRODUCTION

This document is the second in a series of City of Seattle Design Commission submittals made in reference to a proposed arena to be located within the 'Stadium District'. Building upon the analysis, synthesis, and design direction established in the first submittal, the general intent of this document is to respond to the Design Guidelines established for the project during the previous review and to further investigate the architectural character for the building.

Reiterating the focus from our first presentation, the project vision is to create an arena that reinforces linkages to downtown and invigorates its surroundings by reinforcing the existing city fabric and providing a destination, gathering place, and become a vital contributor to Seattle's vibrant culture.

TABLE OF CONTENTS

5 OPERATIONS & CONTEXT

ACCESS: ARRIVAL OPPORTUNITIES
ACCESS: ATTENDEE ARRIVAL DIRECTION
DEFINING PLACE/PEDESTRIAN COMFORT:
OCCIDENTAL / MASSACHUSETTS STREET +
PEDESTRIAN ZONE
OCCIDENTAL UPDATE
OCCIDENTAL AVE: EXISTING CONDITIONS
QUEUING OPPORTUNITIES ALONG HOLGATE
SITE PLAN

13 PLAZA & THE PUBLIC REALM

SITE PLAN
PLAZA COMPARISONS
PLAZA SITE ZONES
PLAZA AND STREETScape PROGRAM
PLAZA PLAN
PLAZA SECTIONS
3D VIEWS
SITE PLAN
TYPOLOGY STUDIES
URBAN FOREST DESIGN FRAMEWORK: DISTRICT
INSERTION CONCEPTUAL STRATEGY
SITE PLAN
1ST AVE. SOUTH SIDEWALK OPTIONS
FIRST AVENUE STREET PREFERRED SECTION
VIEW NORTH 01
FIRST AVENUE STREET PREFERRED SECTION
VIEW NORTH 02
SOUTH HOLGATE STREET SECTION VIEW WEST
ANTICIPATED MACRO PEDESTRIAN MOVEMENTS:
EVENT DAY

37 STREET EDGE ACTIVATION

BUILDING FLOOR PLAN AT STREET EDGE
PLAZA PROGRAMMING DIAGRAMS
DEFINING PLACE/PEDESTRIAN COMFORT: LIGHTING
DEFINING PLACE/PEDESTRIAN COMFORT: SIGNAGE

45 ARCHITECTURAL CHARACTER

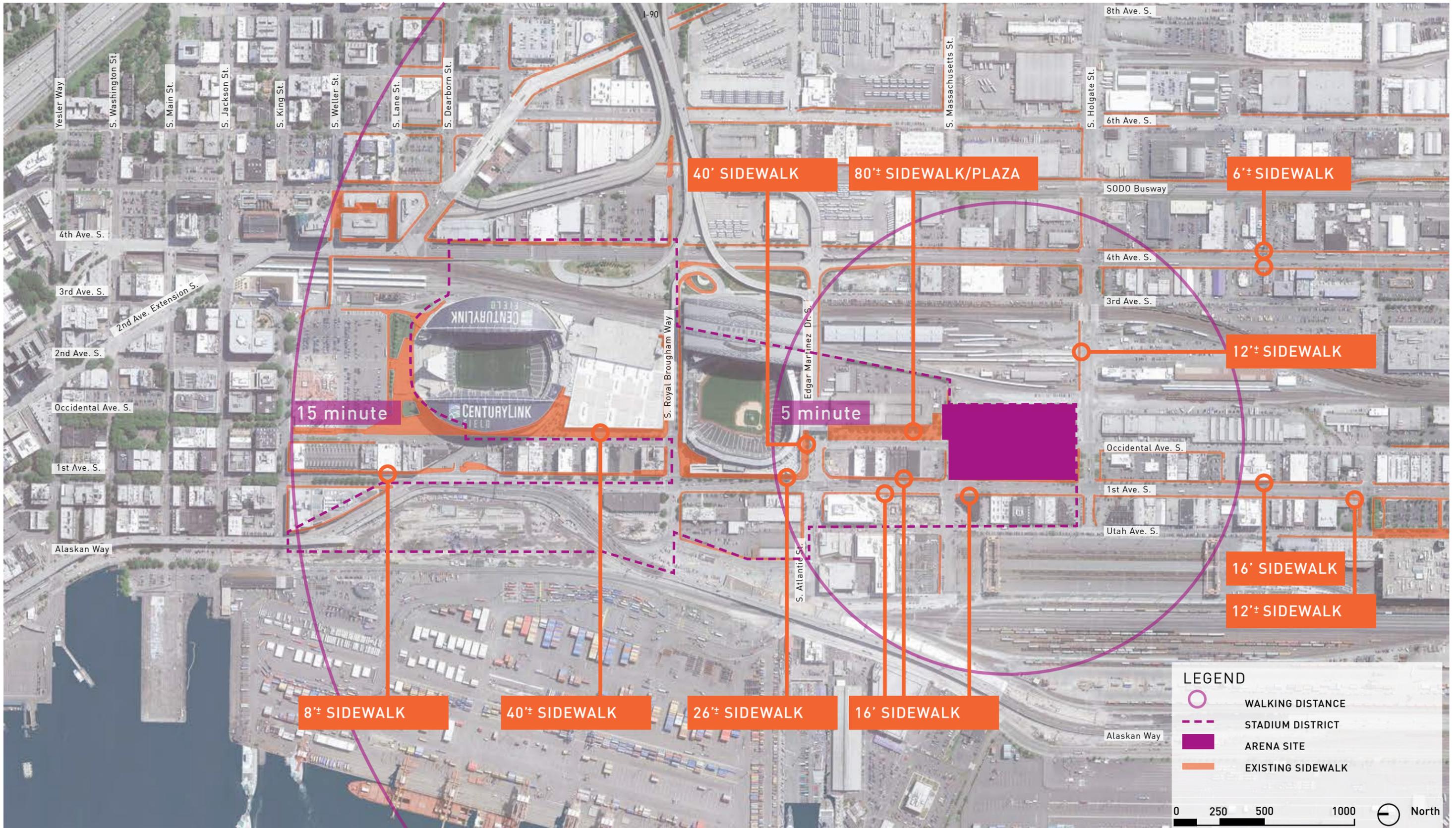
INSPIRATION
AERIAL IMAGES
BUILDING ELEVATIONS
BUILDING SECTIONS
ELEVATION / SECTION DETAILS
3D VIEWS

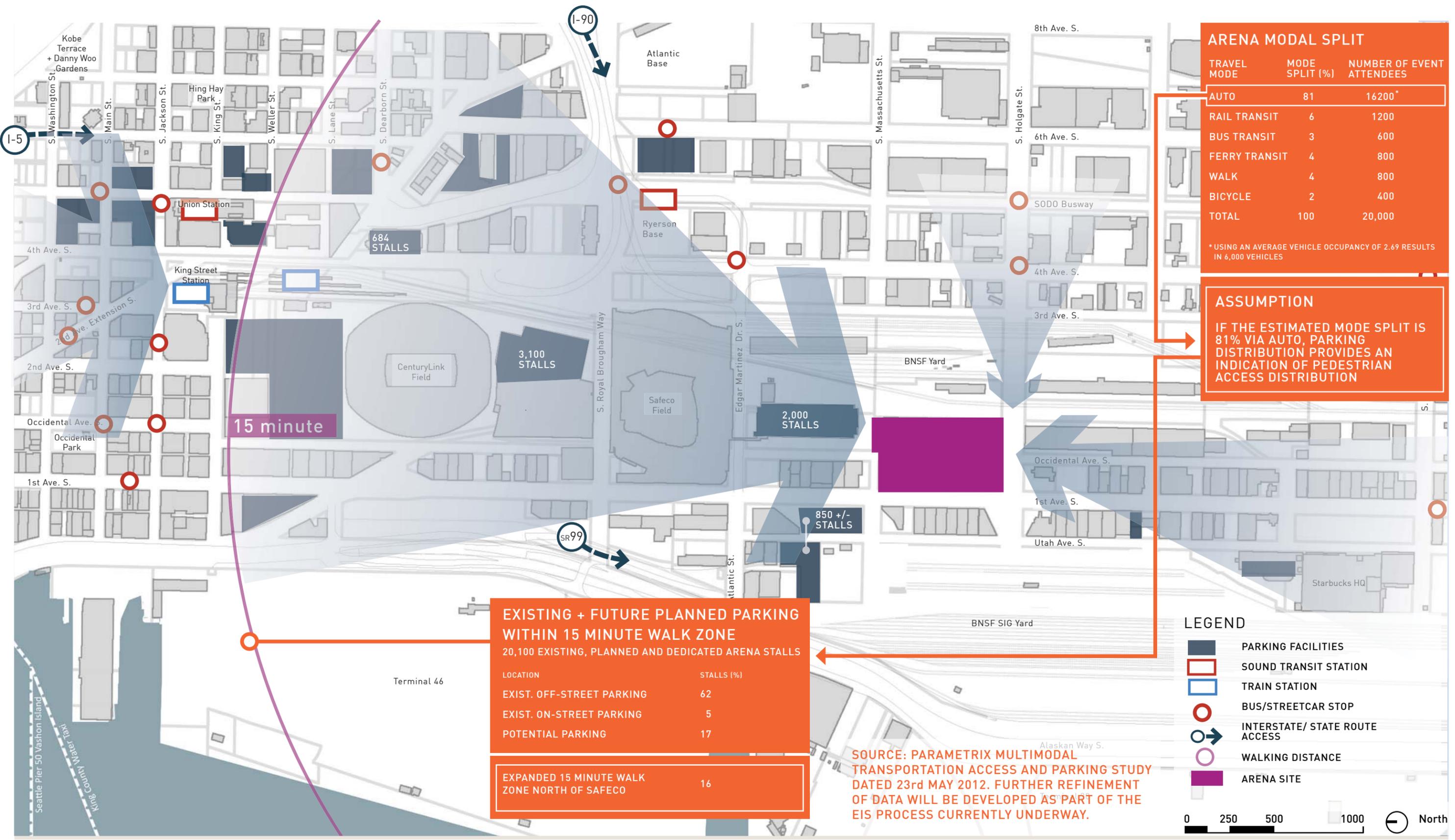
73 SUSTAINABILITY

GREEN FACTOR OPPORTUNITIES
SITE WATER OPPORTUNITIES
STORMWATER DIAGRAM
ARENA HVAC OPPORTUNITIES
BUILDING ENVELOPE OPPORTUNITIES
ENERGY OPPORTUNITIES



OPERATIONS + CONTEXT





ARENA MODAL SPLIT

TRAVEL MODE	MODE SPLIT (%)	NUMBER OF EVENT ATTENDEES
AUTO	81	16,200*
RAIL TRANSIT	6	1,200
BUS TRANSIT	3	600
FERRY TRANSIT	4	800
WALK	4	800
BICYCLE	2	400
TOTAL	100	20,000

* USING AN AVERAGE VEHICLE OCCUPANCY OF 2.69 RESULTS IN 6,000 VEHICLES

ASSUMPTION
 IF THE ESTIMATED MODE SPLIT IS 81% VIA AUTO, PARKING DISTRIBUTION PROVIDES AN INDICATION OF PEDESTRIAN ACCESS DISTRIBUTION

EXISTING + FUTURE PLANNED PARKING WITHIN 15 MINUTE WALK ZONE

20,100 EXISTING, PLANNED AND DEDICATED ARENA STALLS

LOCATION	STALLS (%)
EXIST. OFF-STREET PARKING	62
EXIST. ON-STREET PARKING	5
POTENTIAL PARKING	17
EXPANDED 15 MINUTE WALK ZONE NORTH OF SAFECO	16

SOURCE: PARAMETRIX MULTIMODAL TRANSPORTATION ACCESS AND PARKING STUDY DATED 23rd MAY 2012. FURTHER REFINEMENT OF DATA WILL BE DEVELOPED AS PART OF THE EIS PROCESS CURRENTLY UNDERWAY.

LEGEND

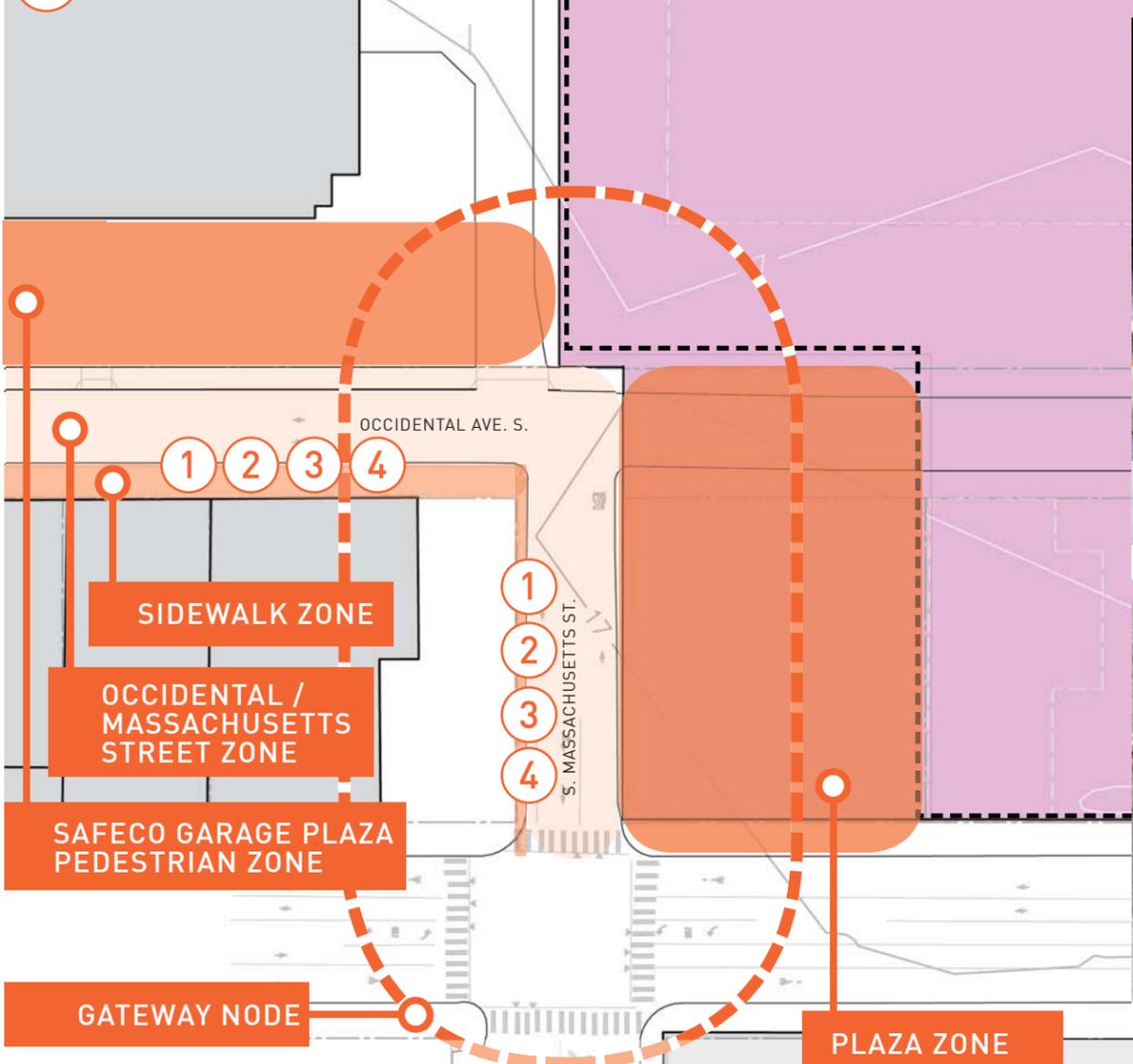
- PARKING FACILITIES
- SOUND TRANSIT STATION
- TRAIN STATION
- BUS/STREETCAR STOP
- INTERSTATE/ STATE ROUTE ACCESS
- WALKING DISTANCE
- ARENA SITE

0 250 500 1000 North



1 PROCESSION + CELEBRATION

2 PREGAME GATHERING + FOOD



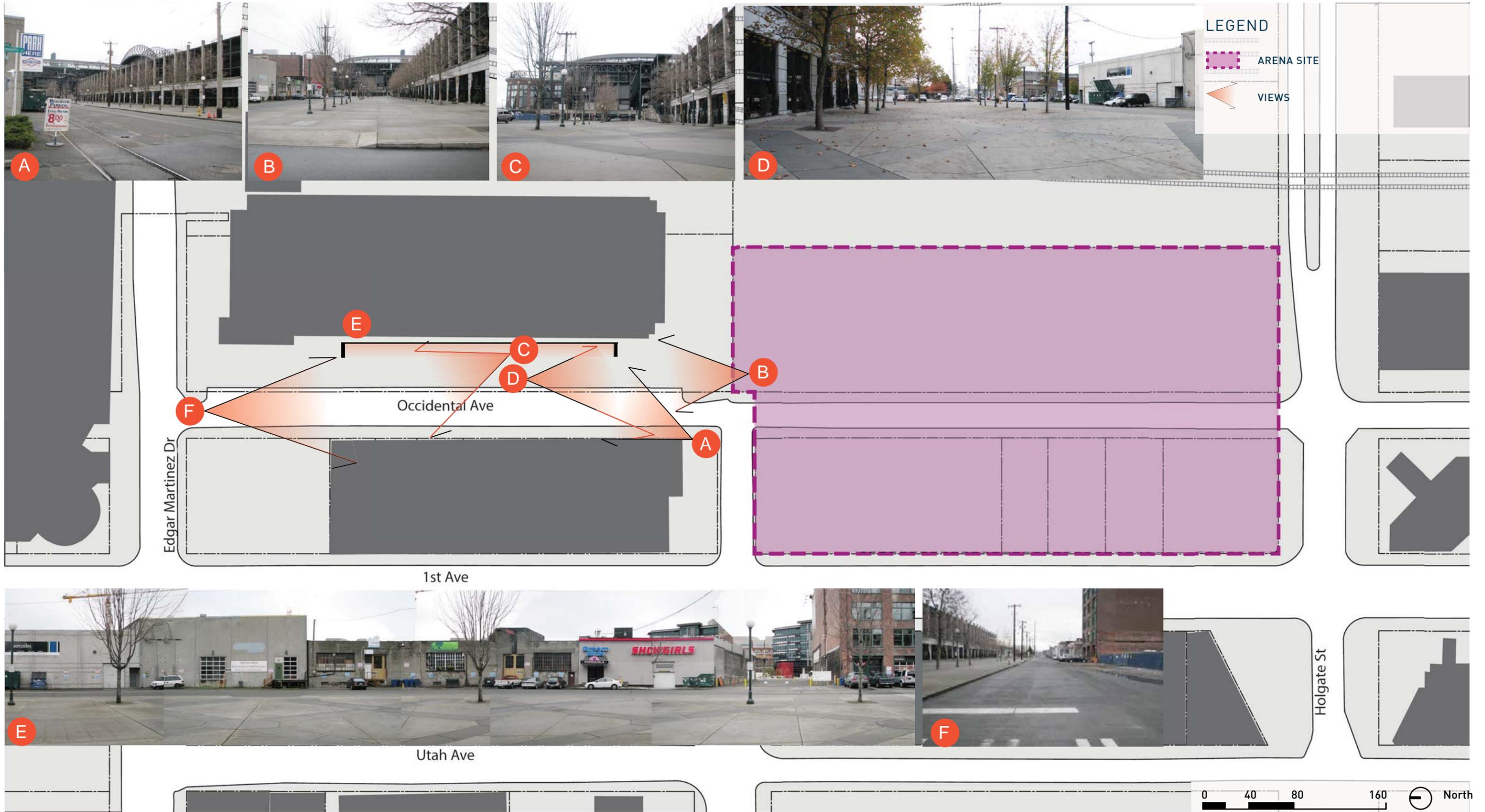
3 URBAN COMFORT + CITY LIFE

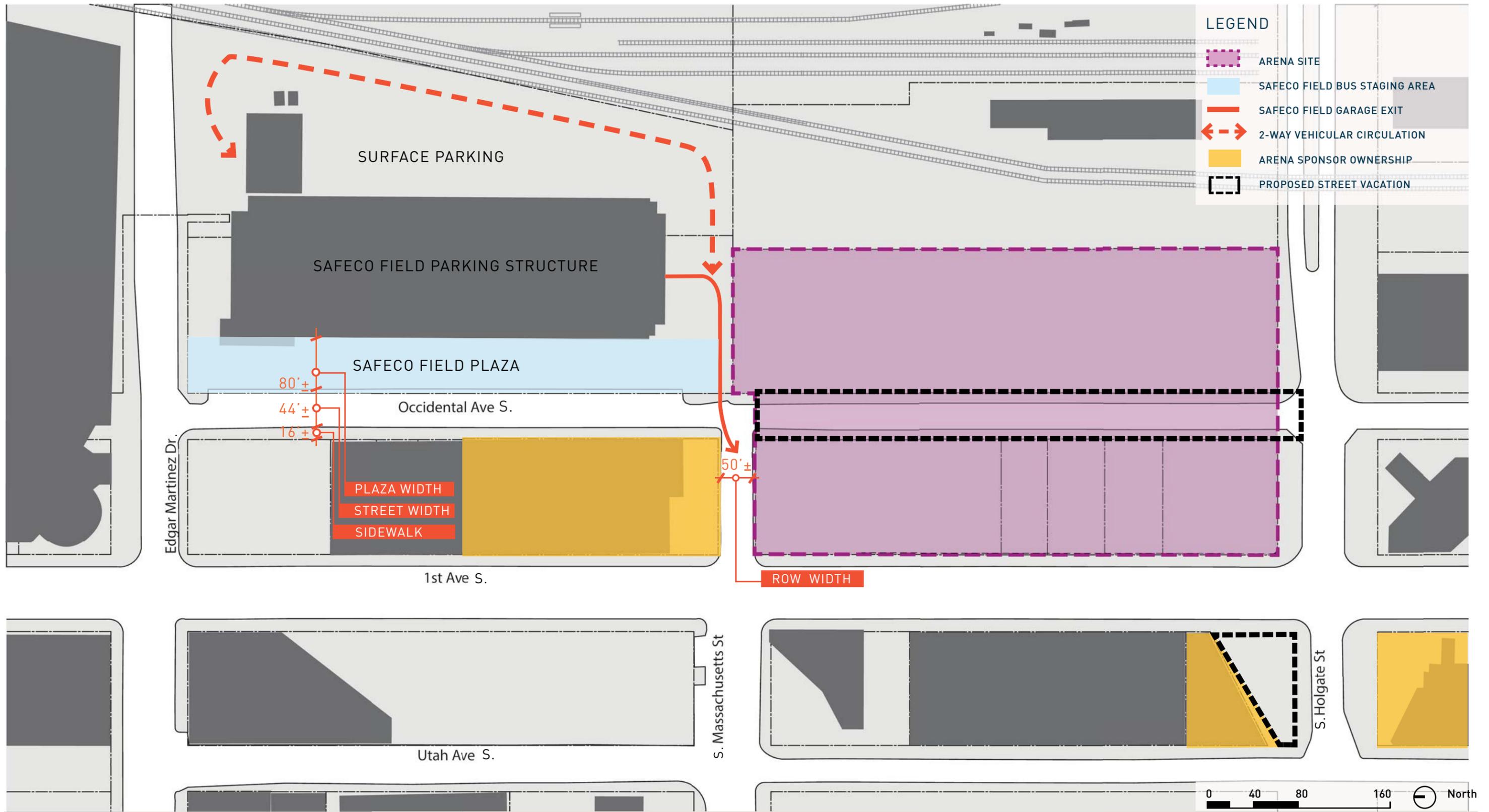


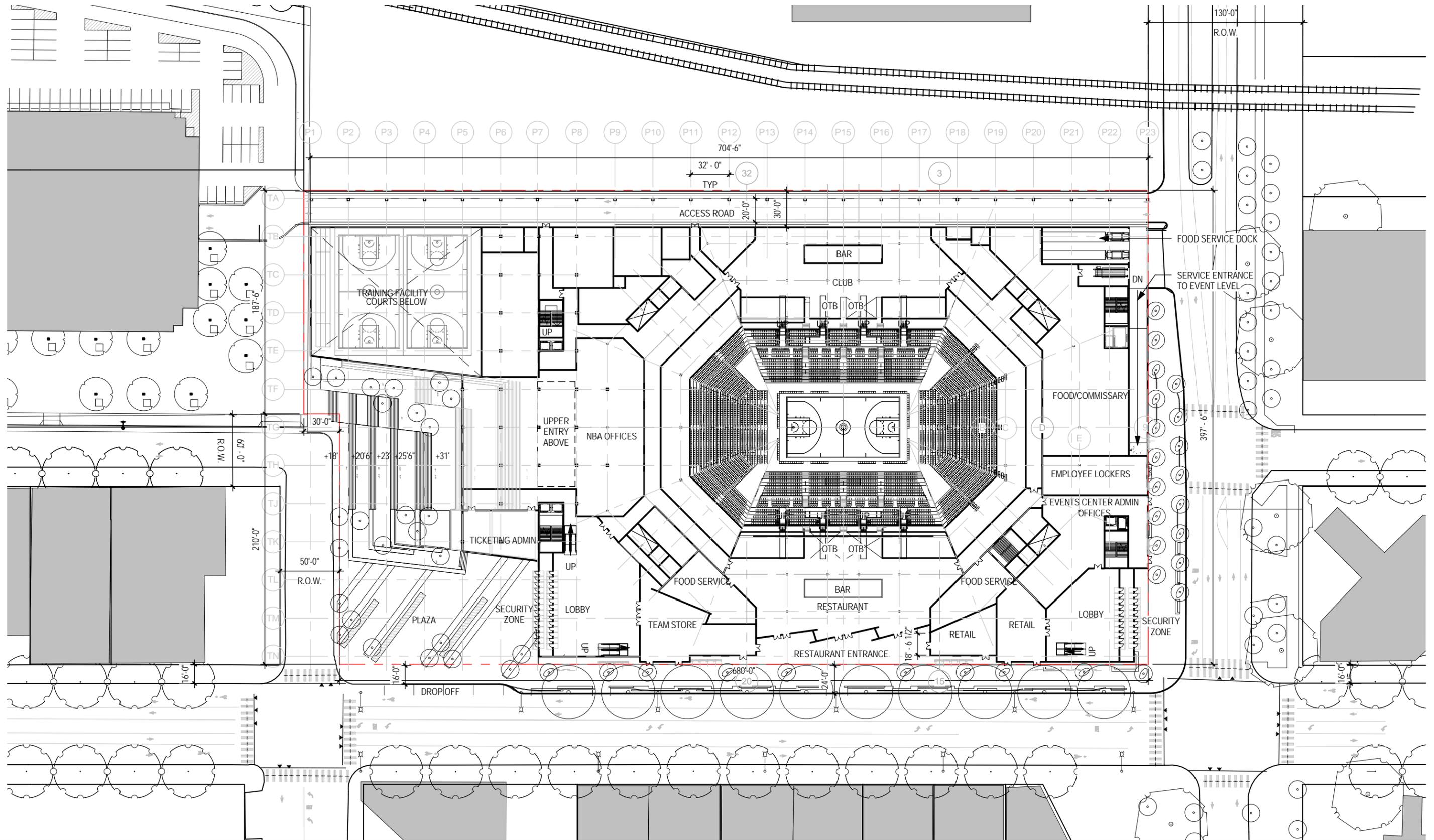
4 SEASONAL CHANGE + LANDMARK + PUBLIC ART

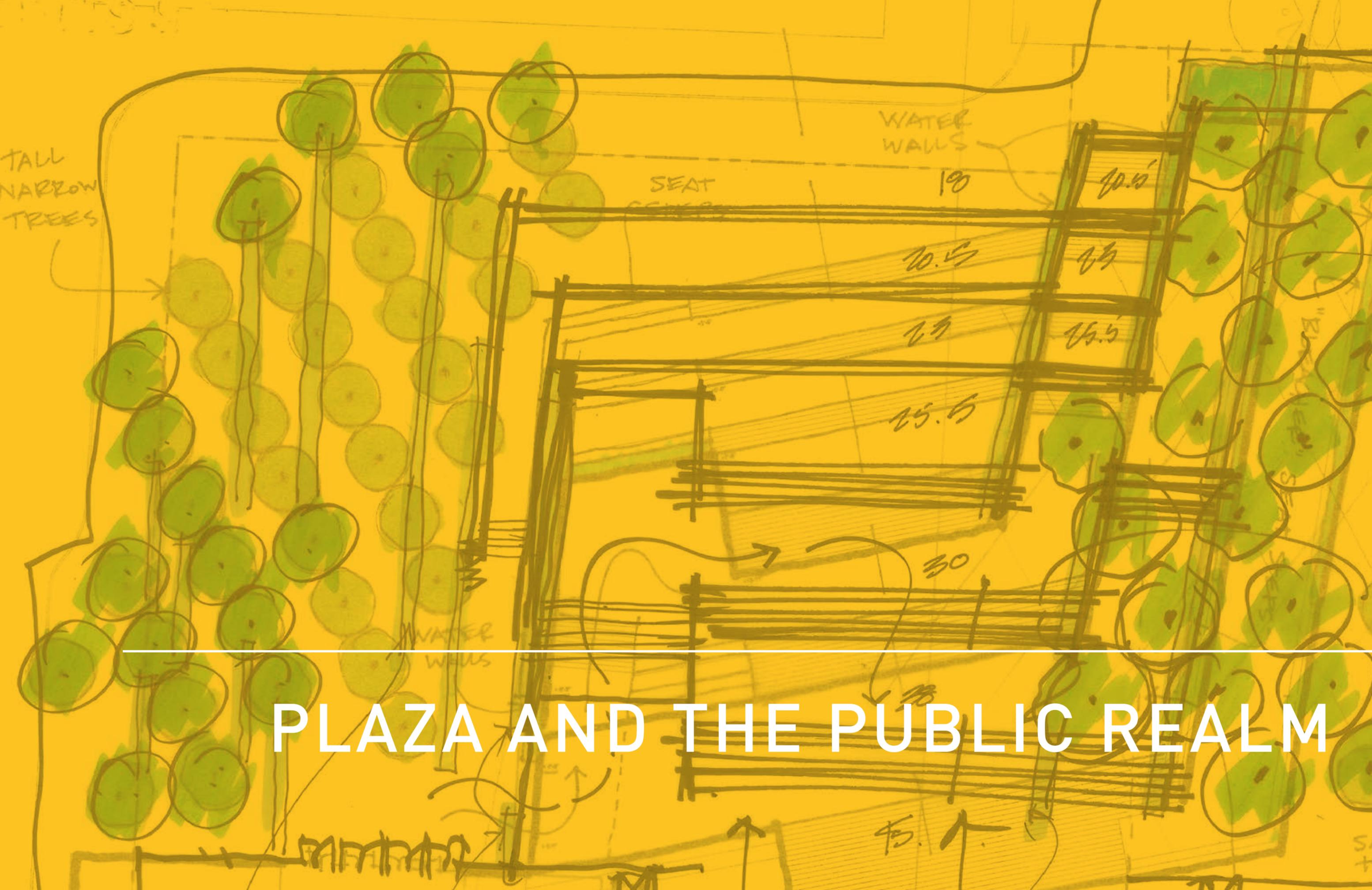
D-2 ENHANCE THE BUILDING WITH LANDSCAPING. **D-3** PROVIDE ELEMENTS THAT DEFINE PLACE. **D-6** DESIGN FOR PERSONAL SAFETY + SECURITY.



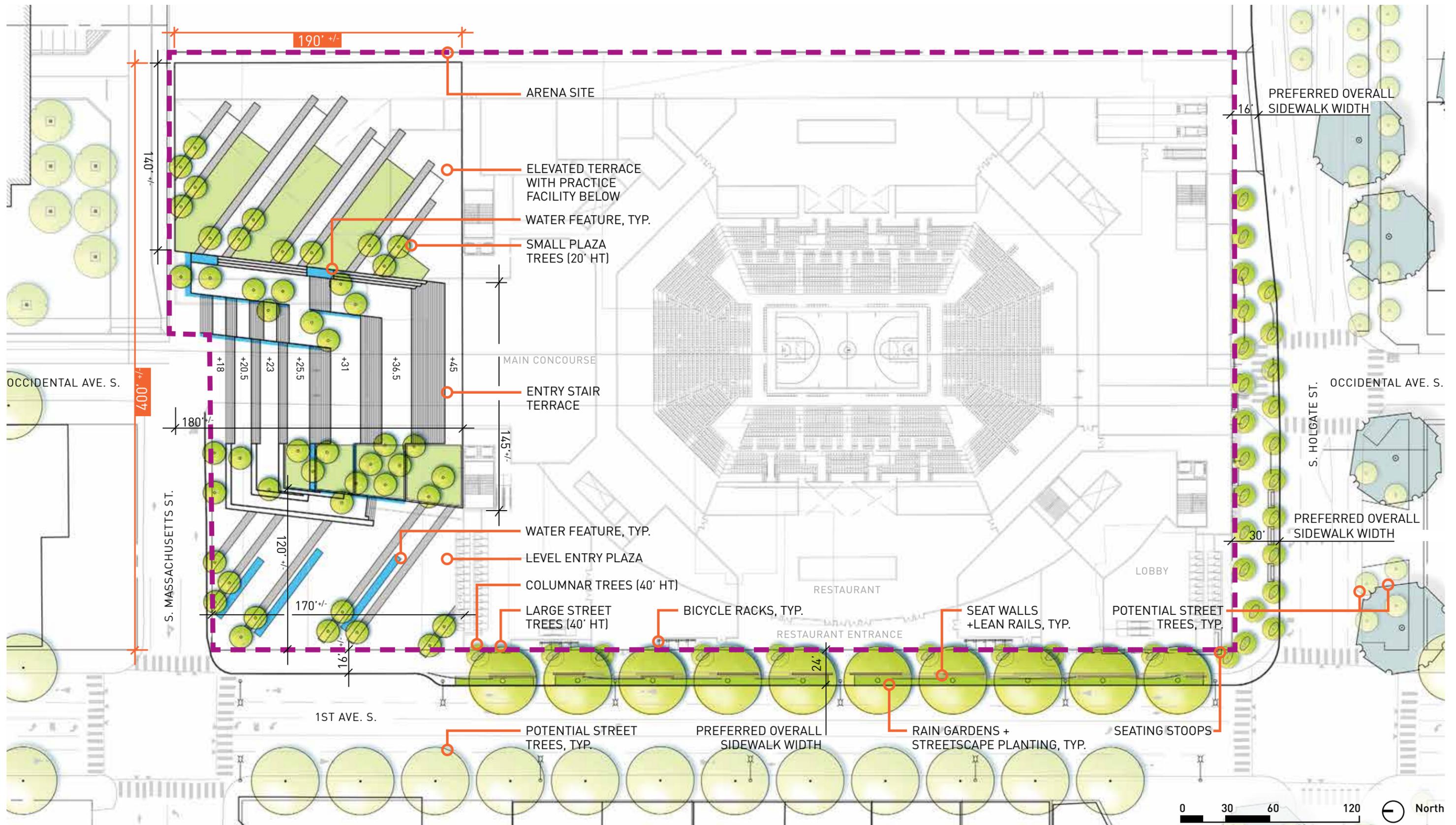






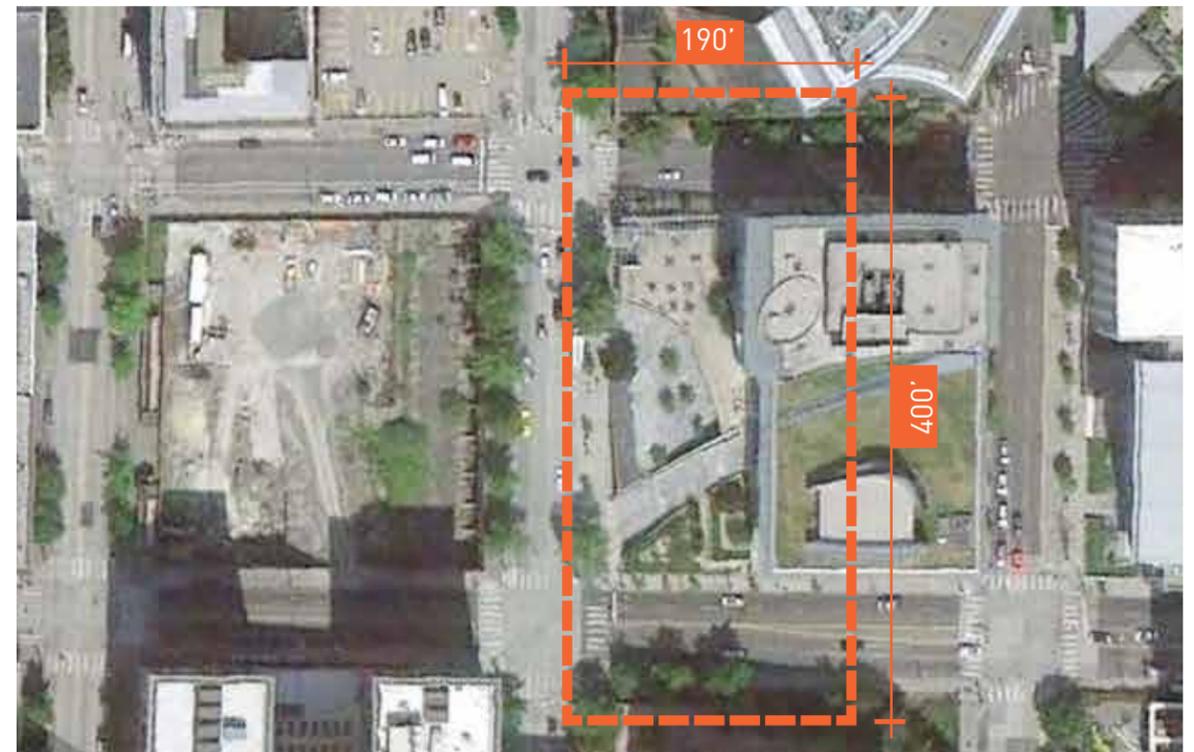


PLAZA AND THE PUBLIC REALM





FISHER PAVILION, SEATTLE CENTER | SEATTLE



CITY HALL PLAZA | SEATTLE

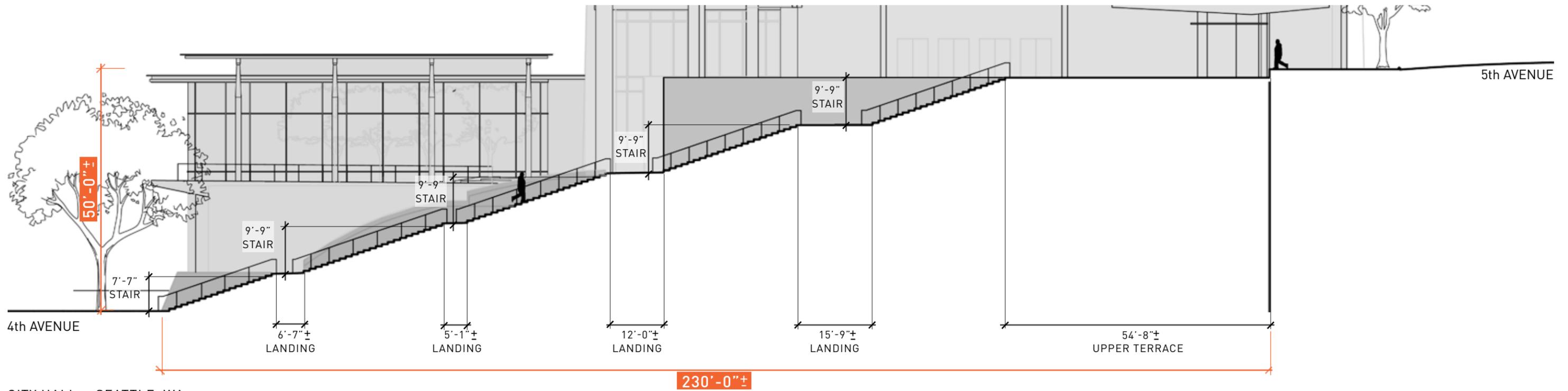


RED SQUARE, UNIVERSITY OF WASHINGTON | SEATTLE

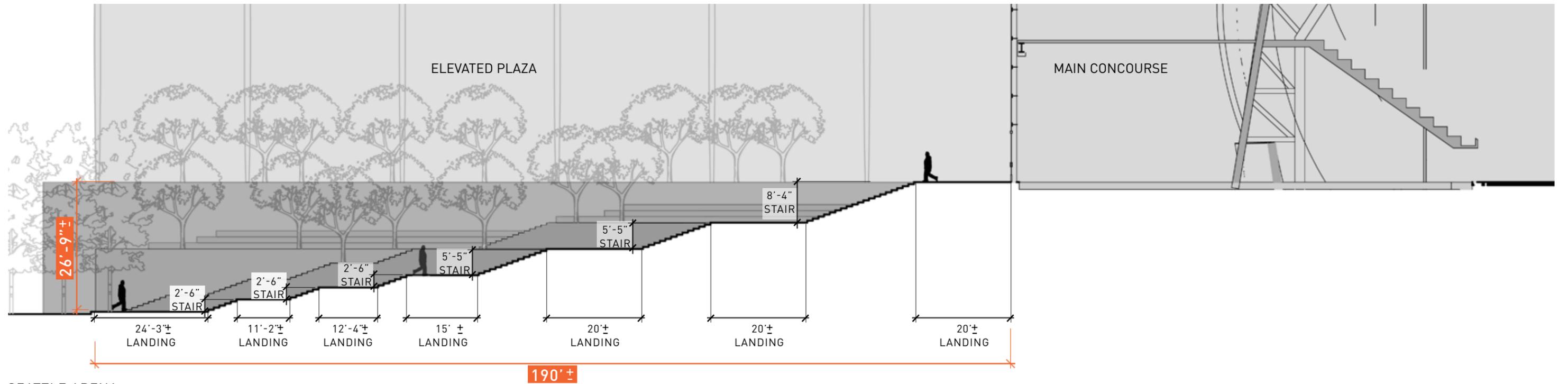


HARBOR STEPS | SEATTLE



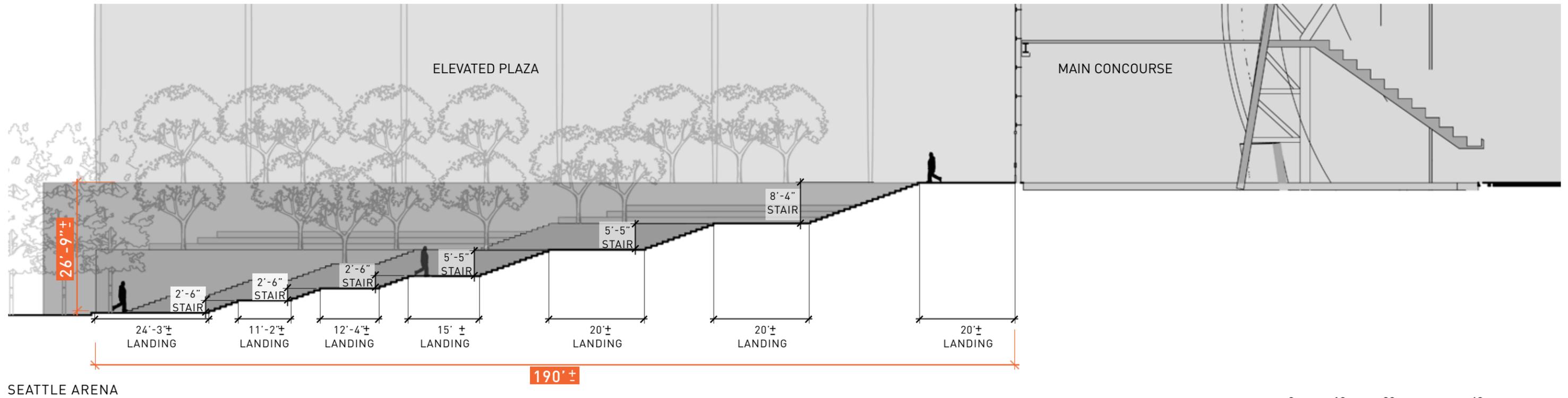
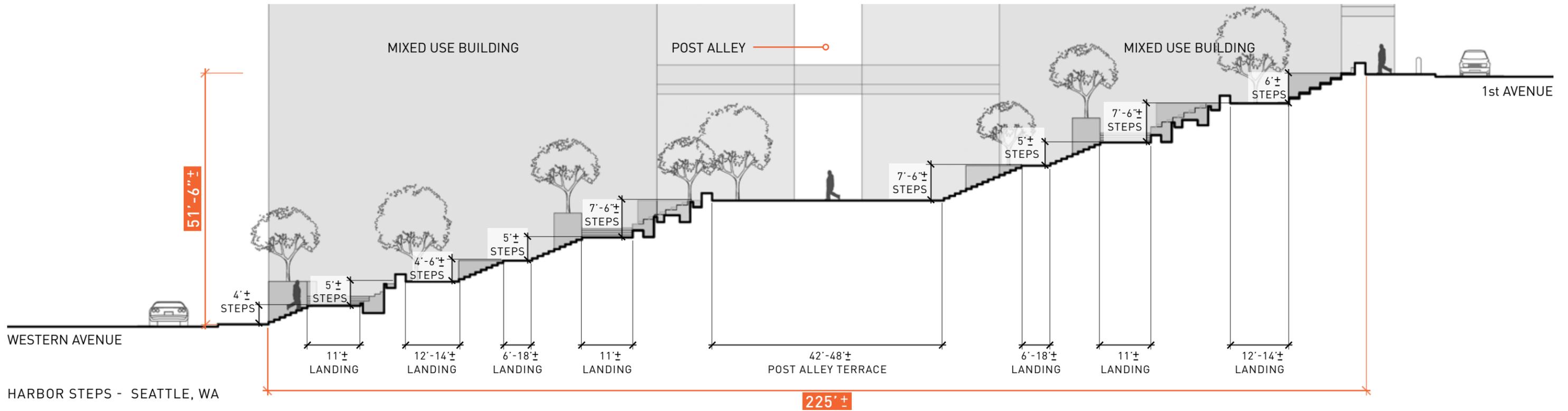


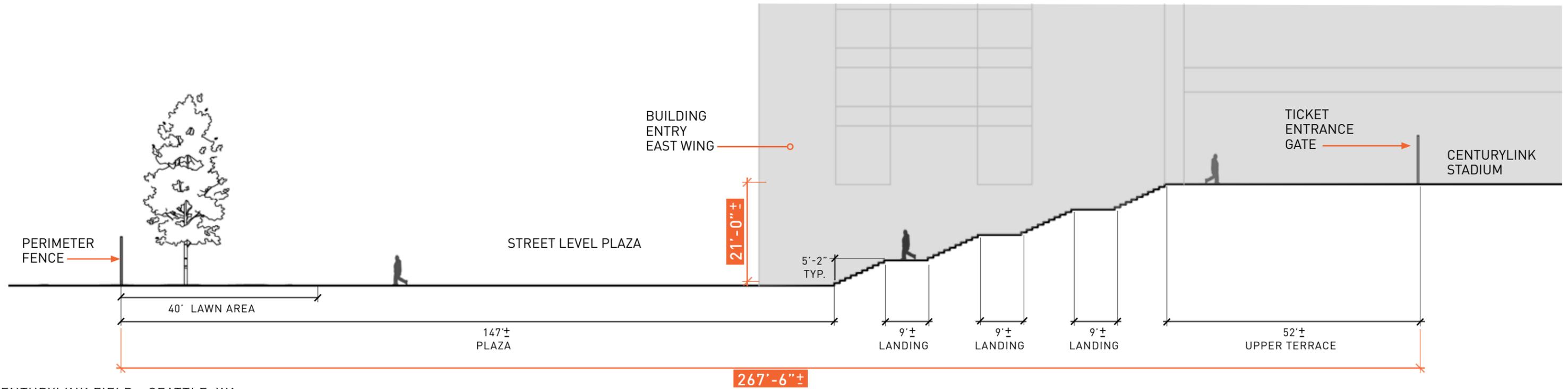
CITY HALL - SEATTLE, WA



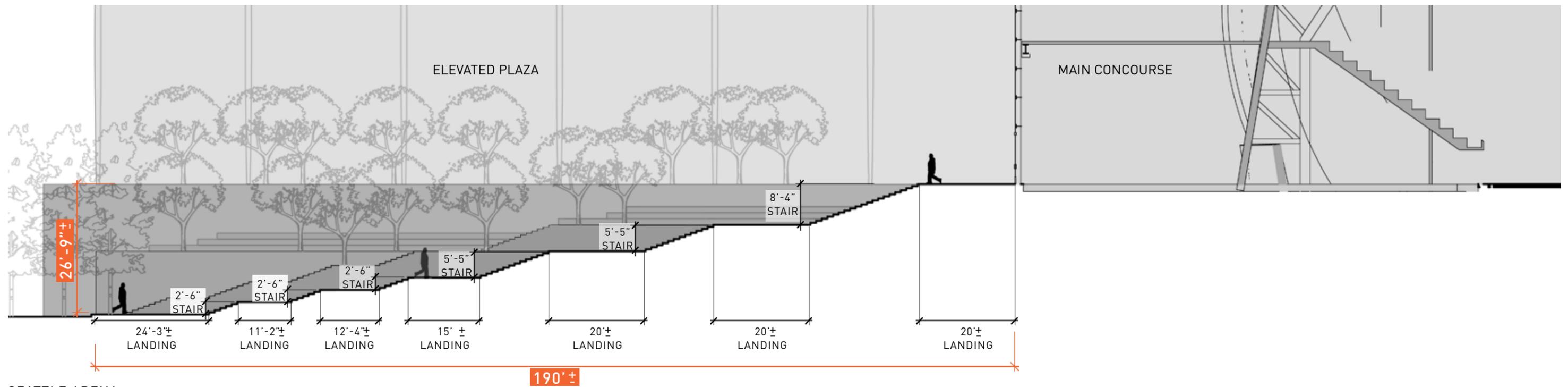
SEATTLE ARENA





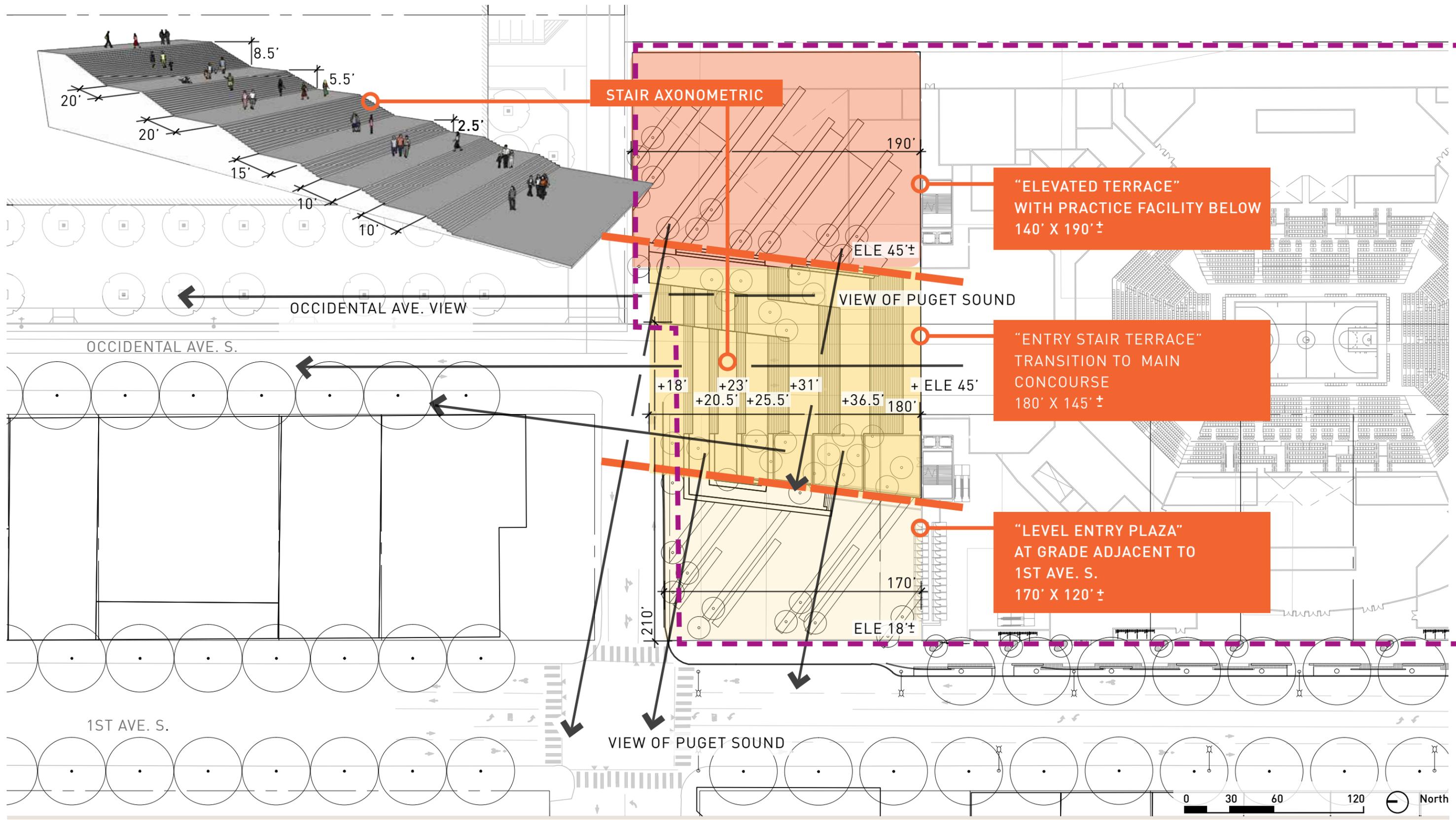


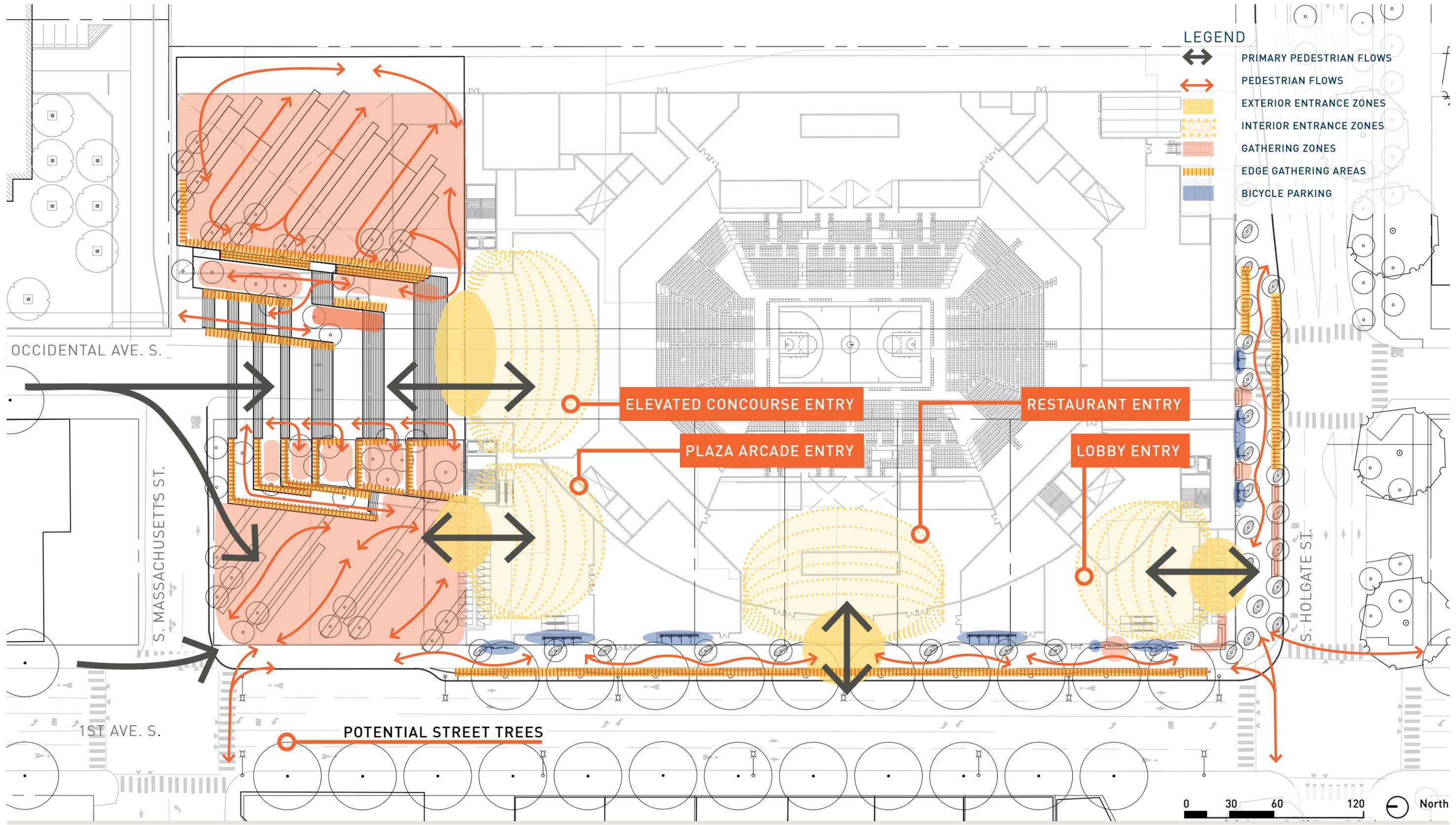
CENTURYLINK FIELD - SEATTLE, WA



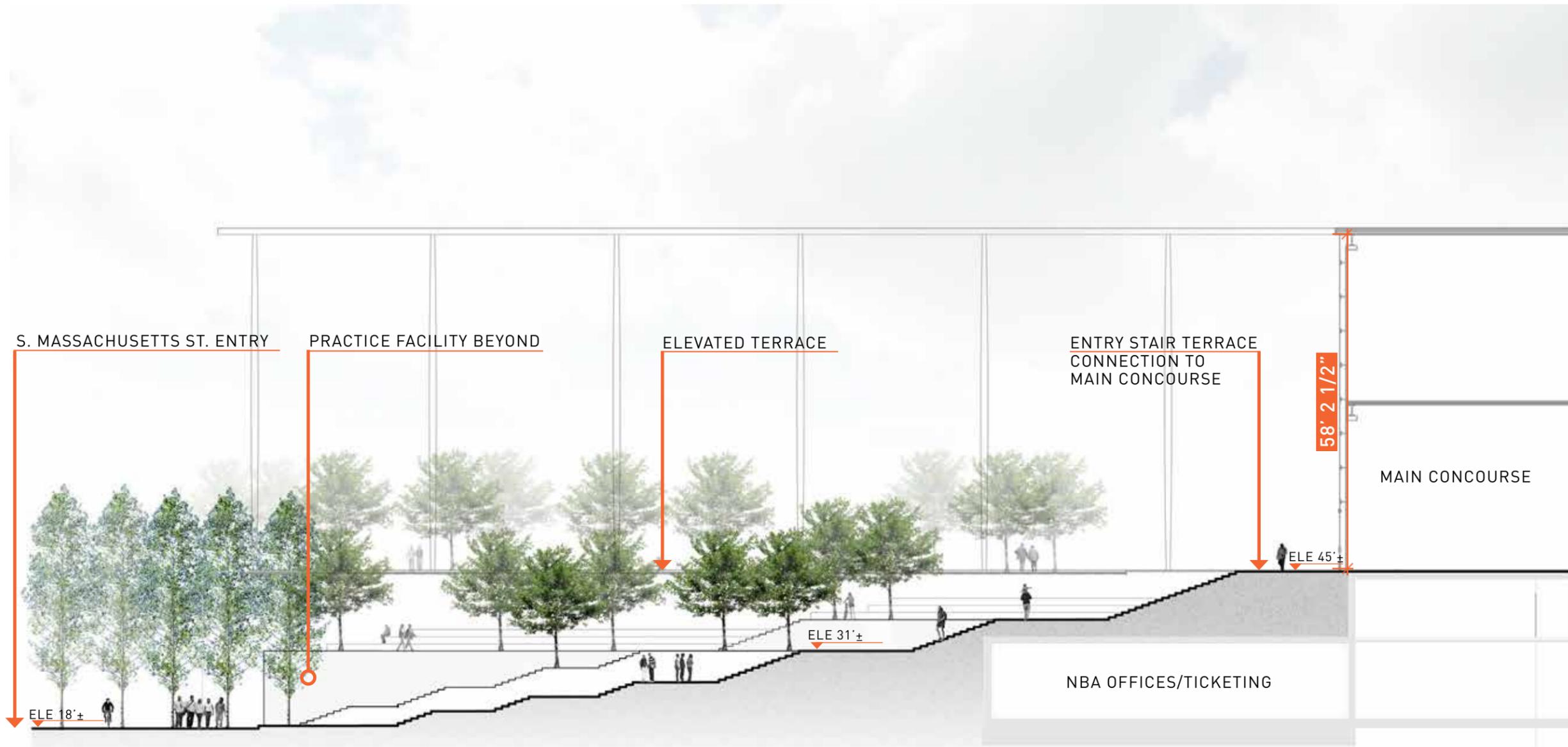
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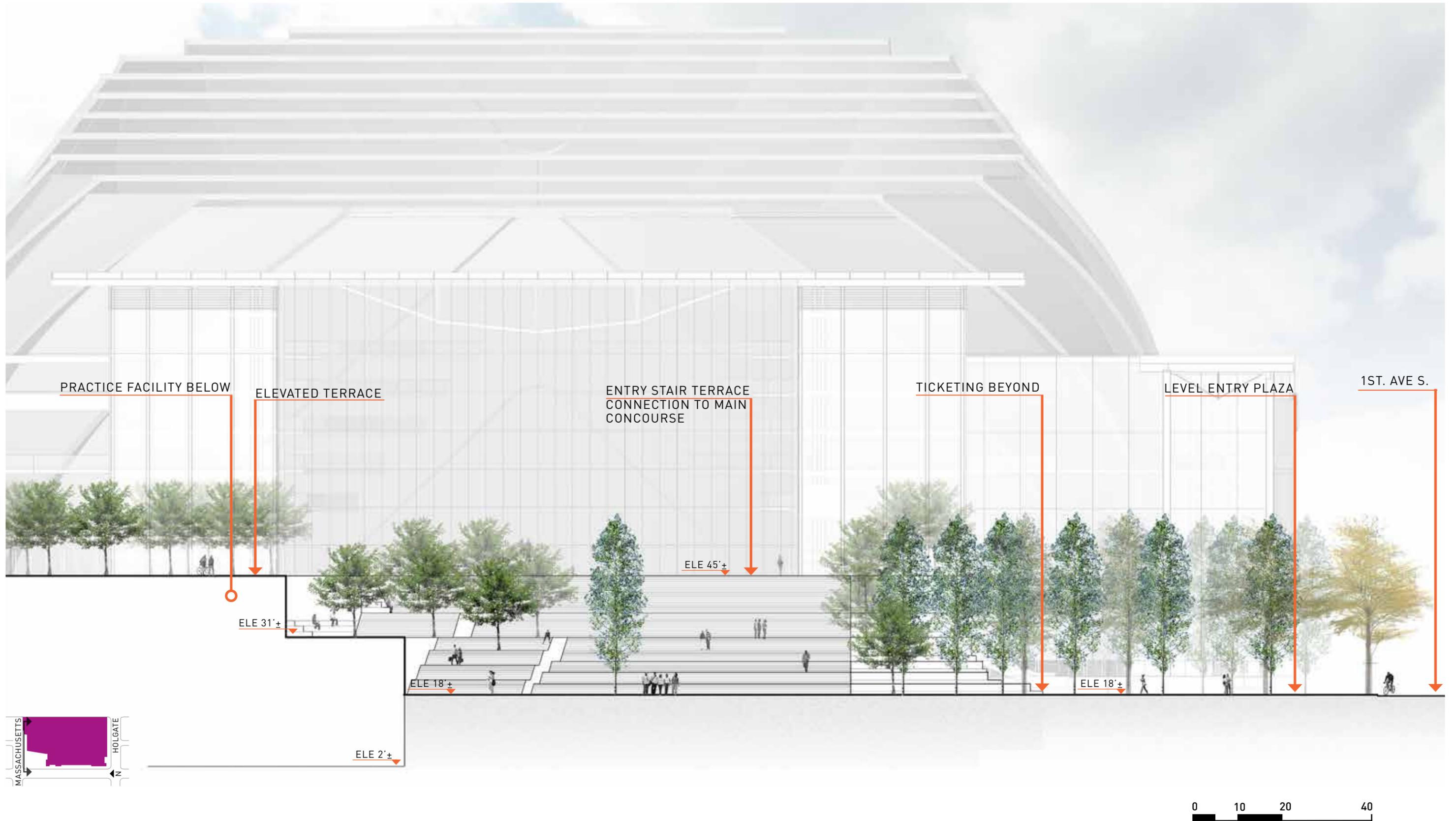










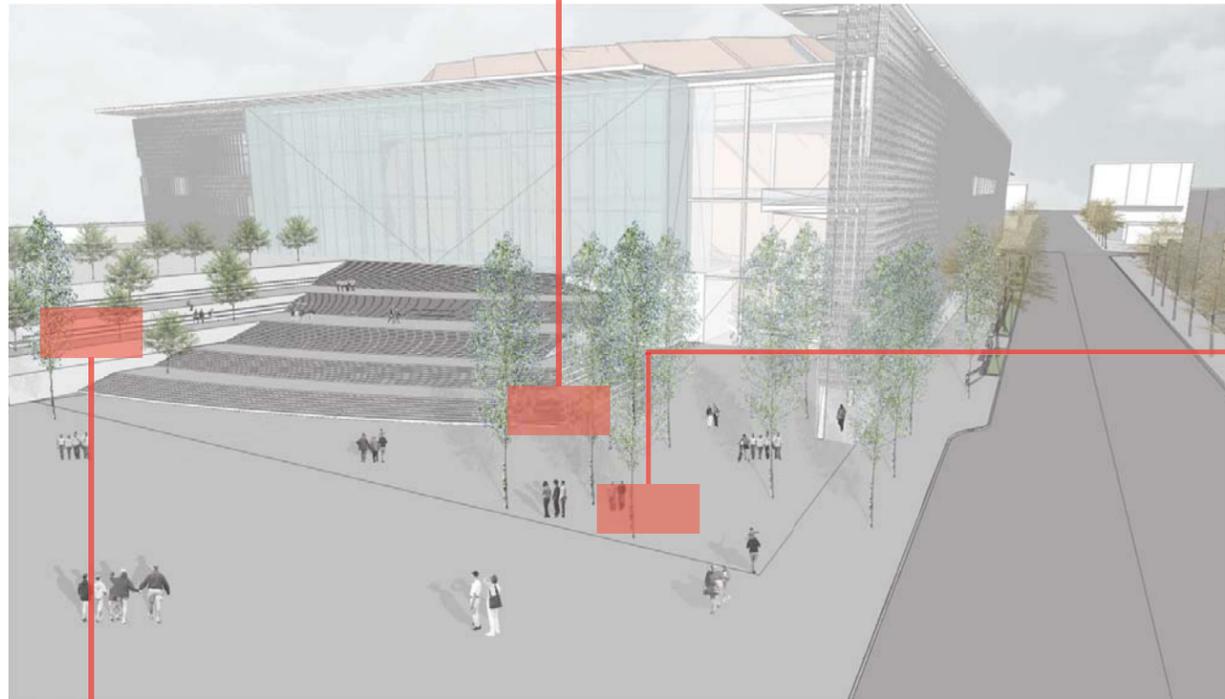


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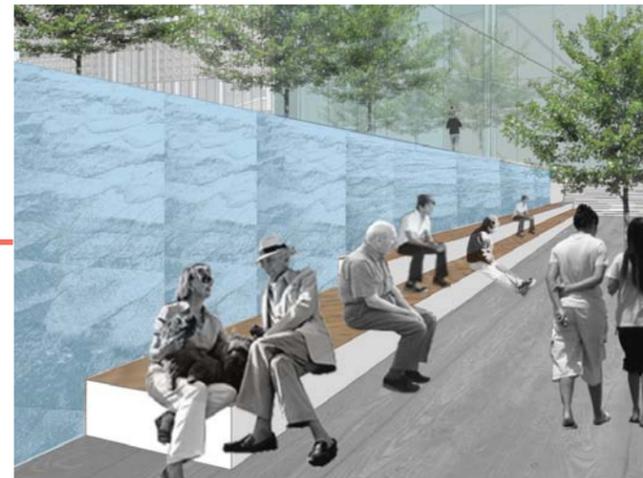
BLEACHER SEATS AND STAIRS

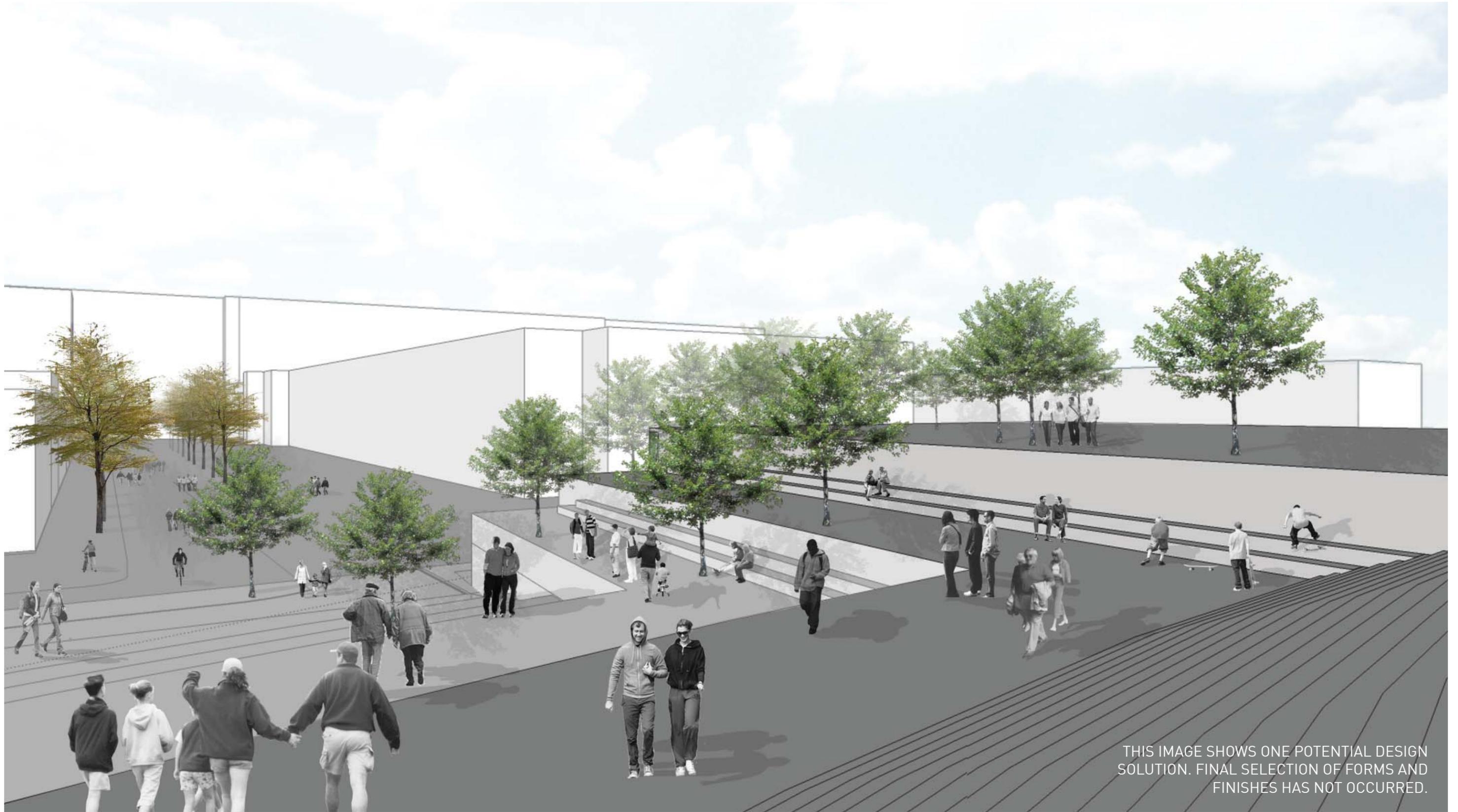


PLAZA AT SIDEWALK GRADE



WATERWALL AND GREEN WALL





SEATTLE ARENA

JANUARY 17, 2013

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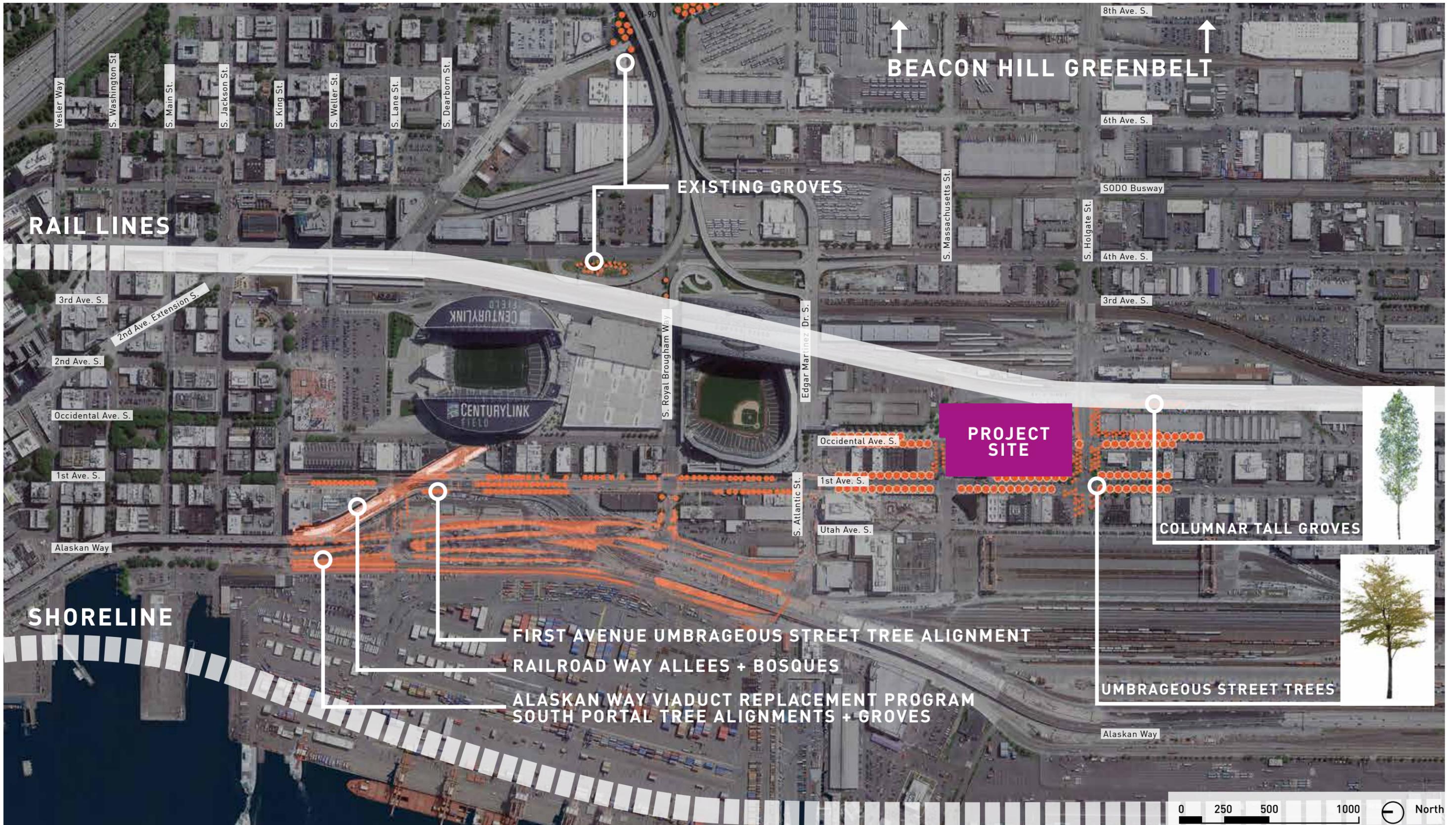
SEATTLE ARENA

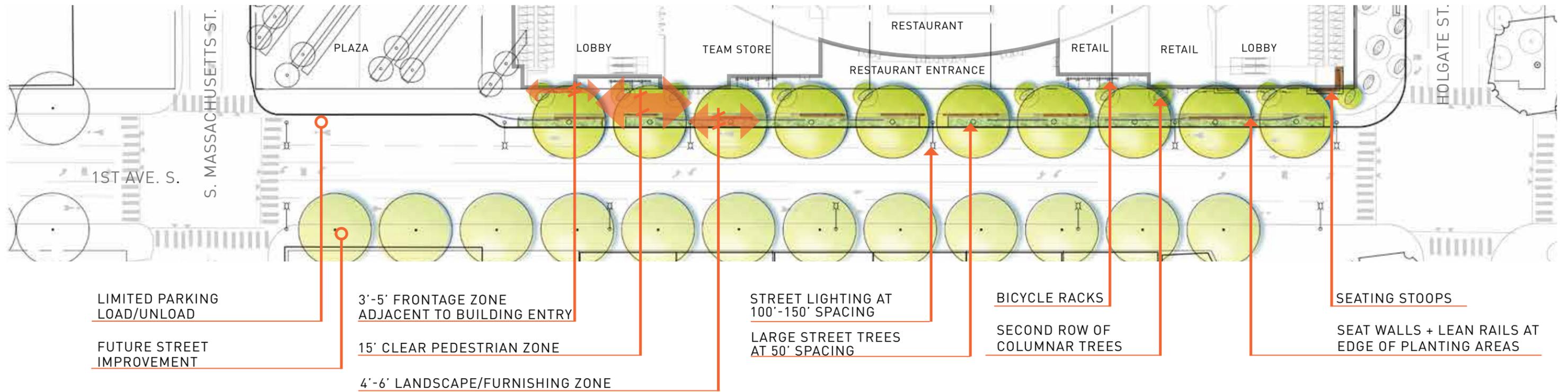
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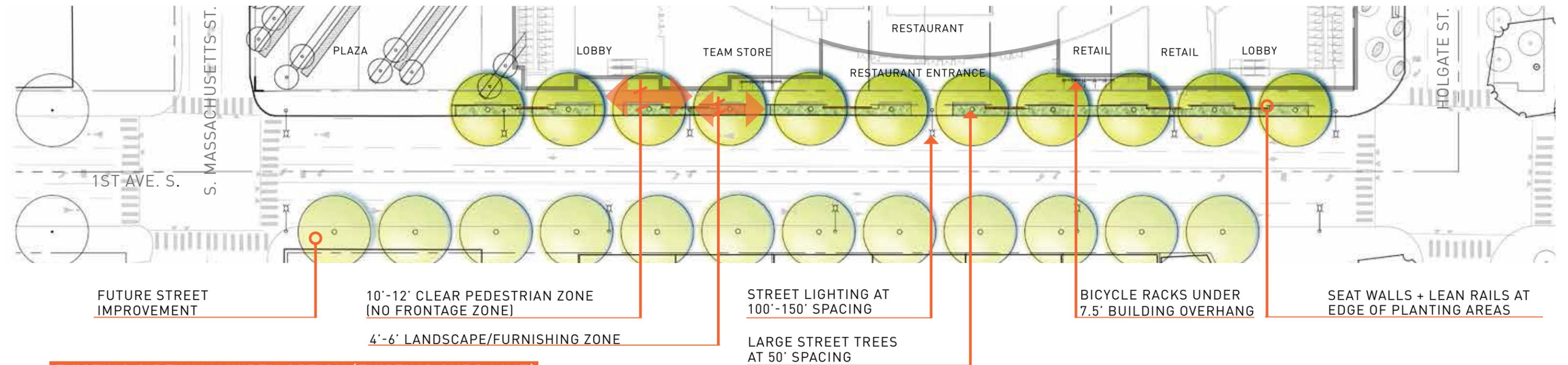
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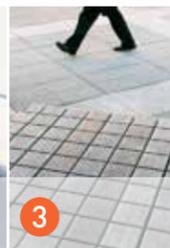
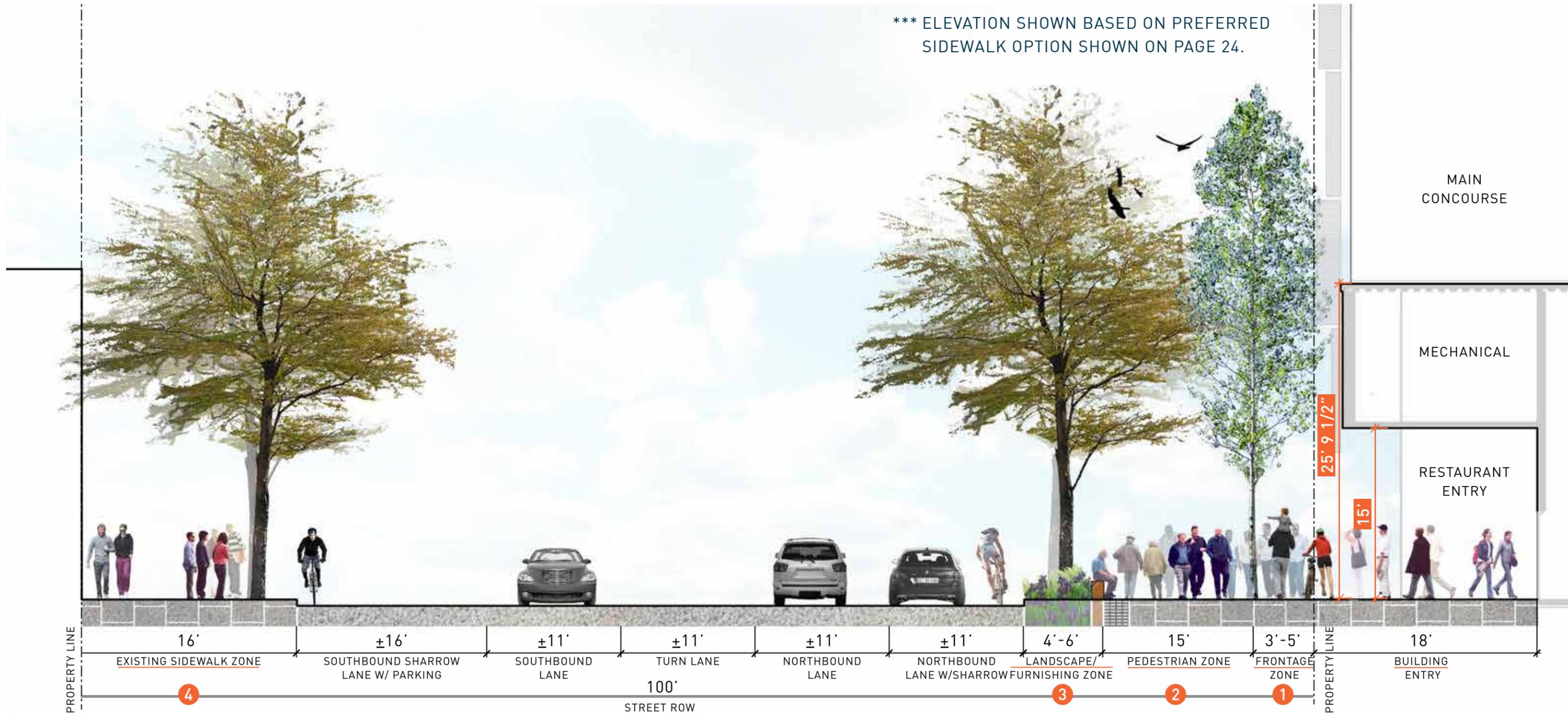
PREFERRED SIDEWALK WIDTH OPTION (MOVES EXISTING CURB OUT)



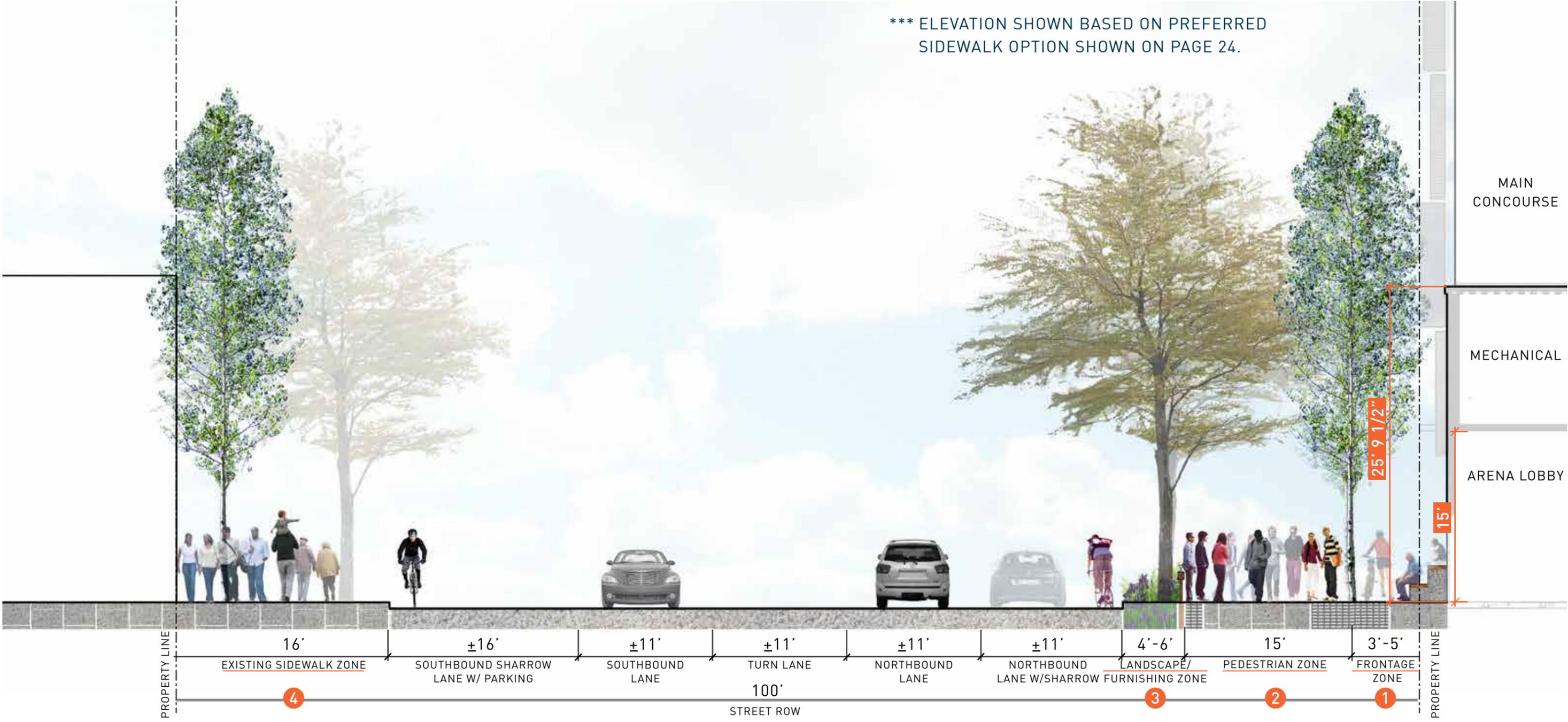
EXISTING SIDEWALK WIDTH OPTION (EXISTING CURB LINE)

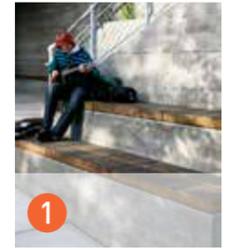
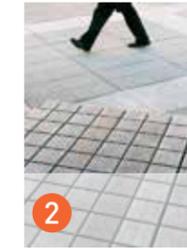
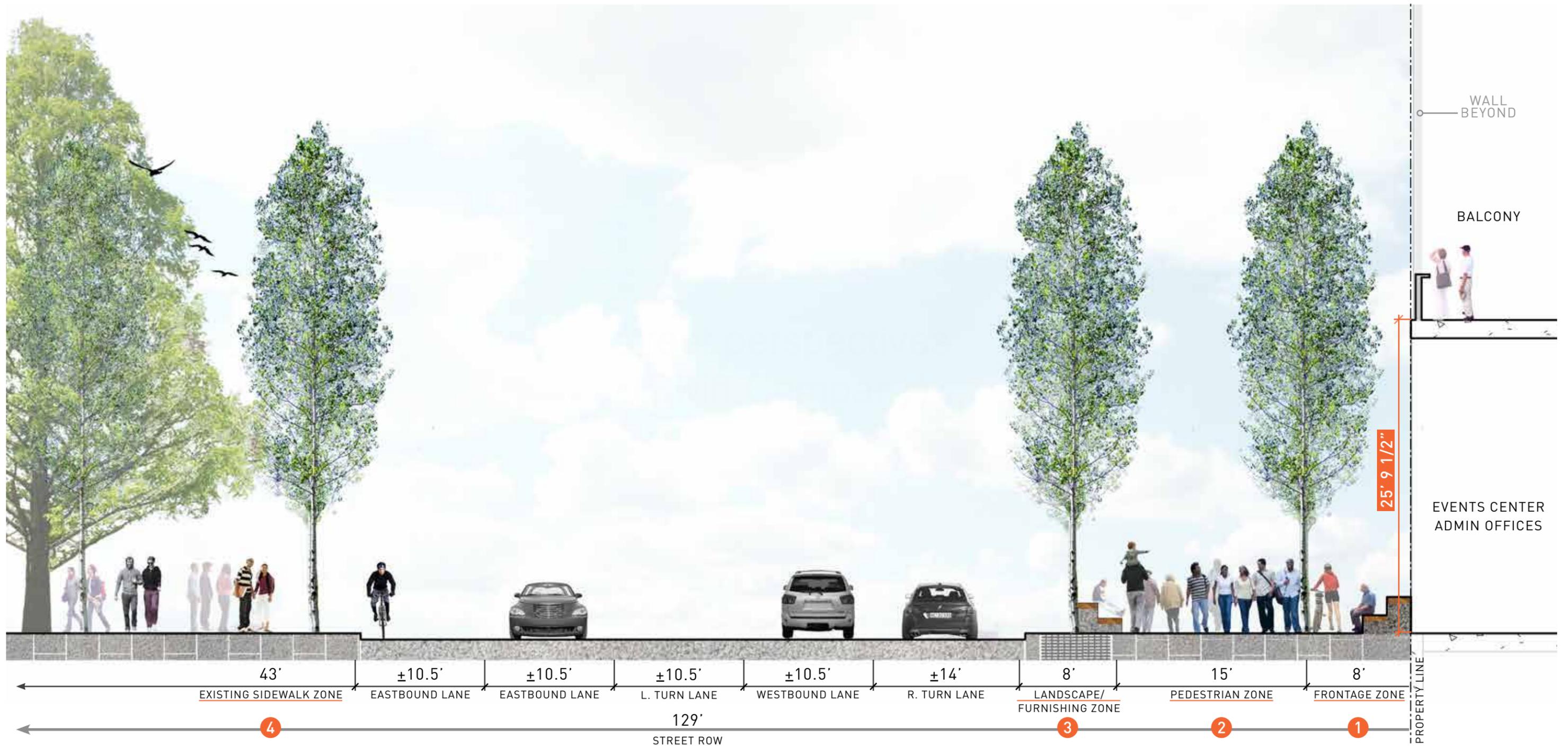


*** ELEVATION SHOWN BASED ON PREFERRED SIDEWALK OPTION SHOWN ON PAGE 24.

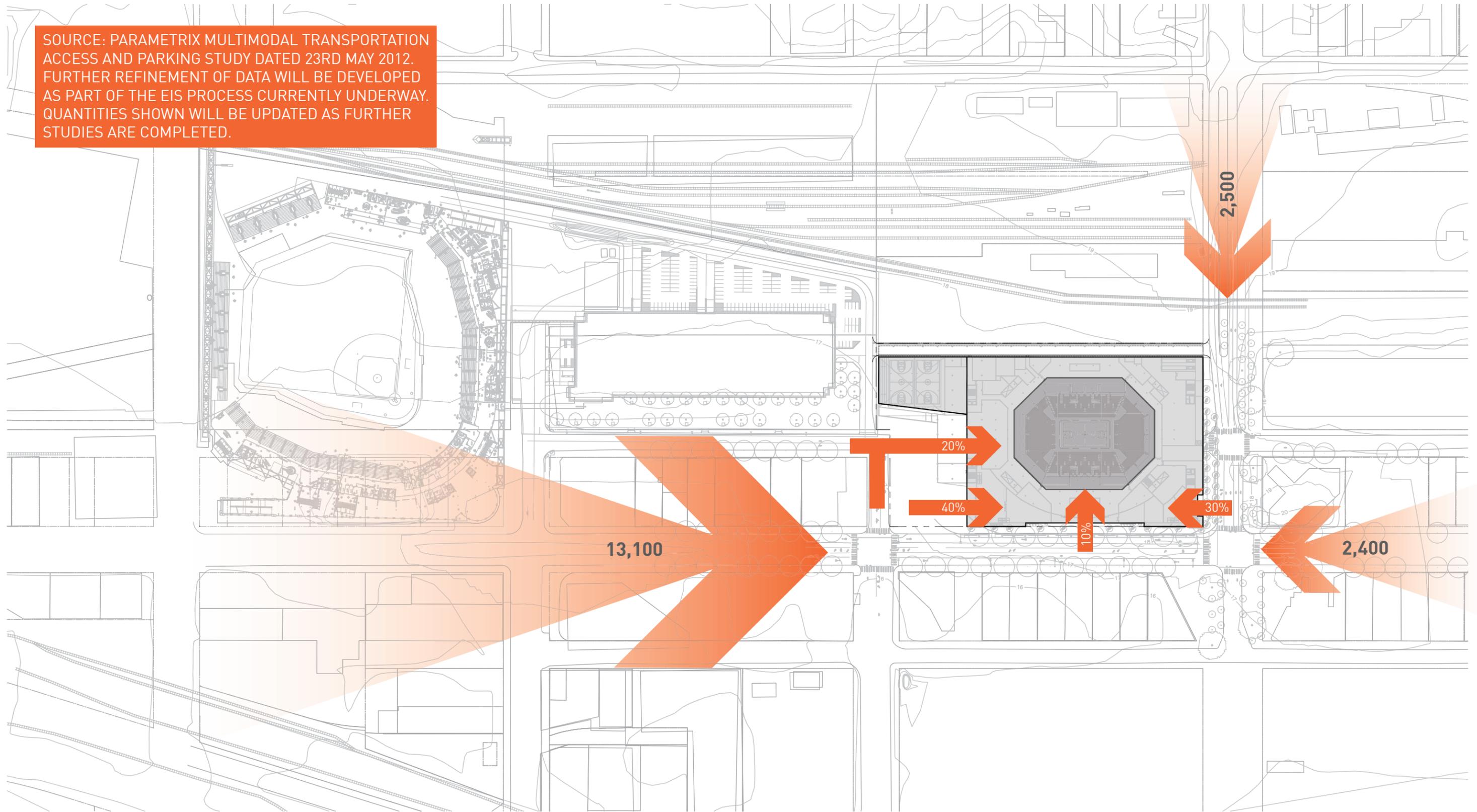


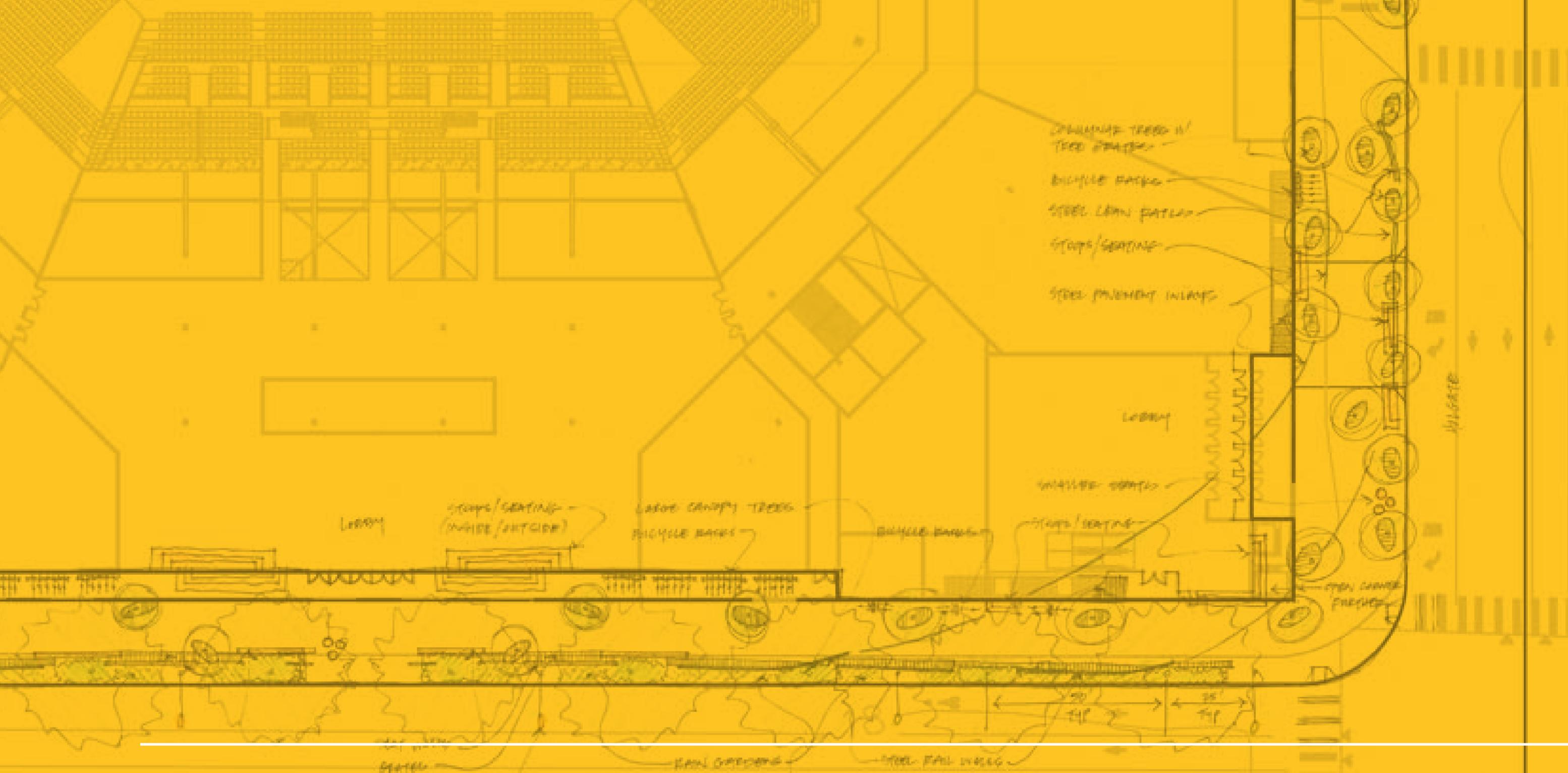
*** ELEVATION SHOWN BASED ON PREFERRED SIDEWALK OPTION SHOWN ON PAGE 24.



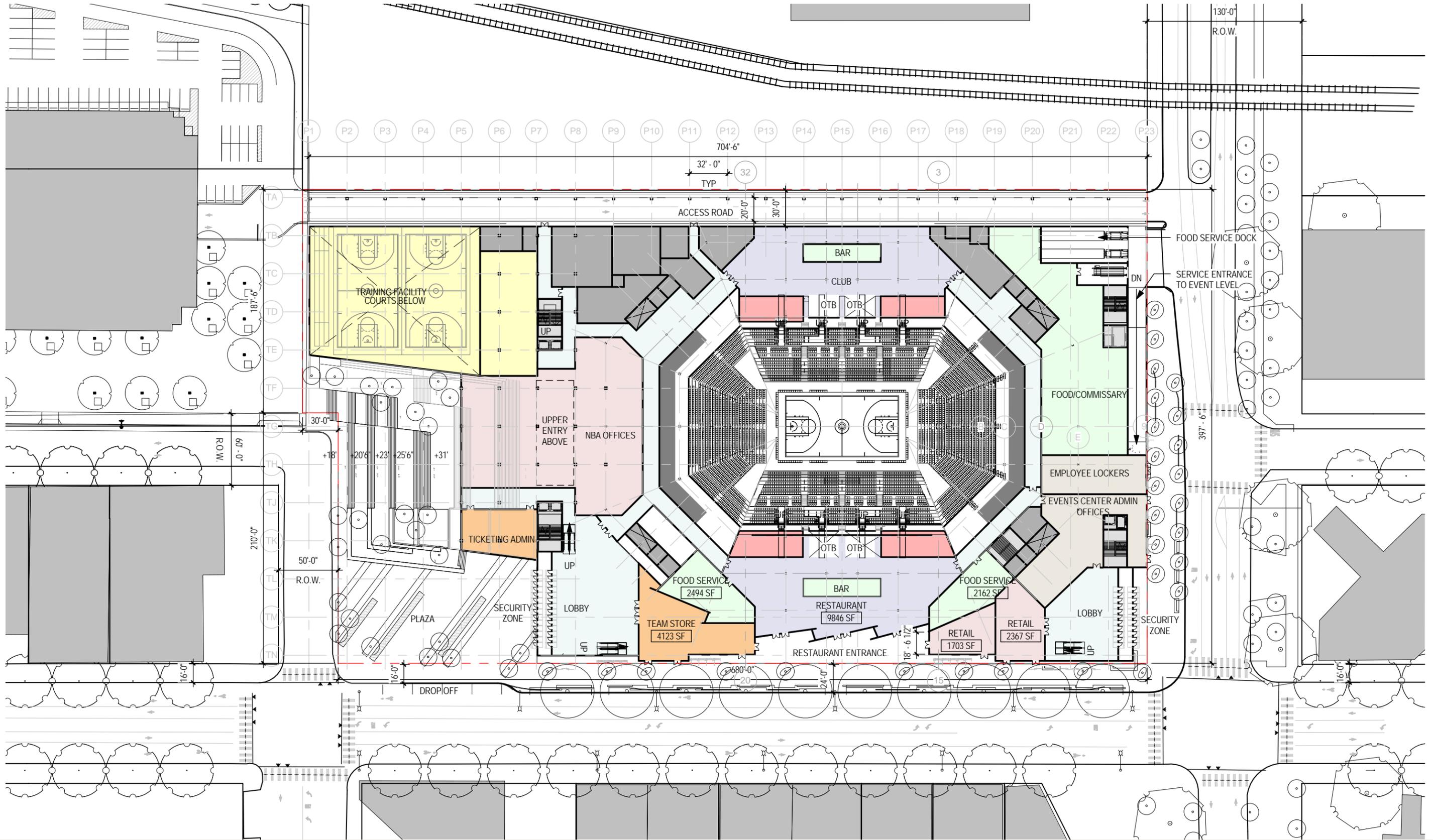


SOURCE: PARAMETRIX MULTIMODAL TRANSPORTATION ACCESS AND PARKING STUDY DATED 23RD MAY 2012. FURTHER REFINEMENT OF DATA WILL BE DEVELOPED AS PART OF THE EIS PROCESS CURRENTLY UNDERWAY. QUANTITIES SHOWN WILL BE UPDATED AS FURTHER STUDIES ARE COMPLETED.





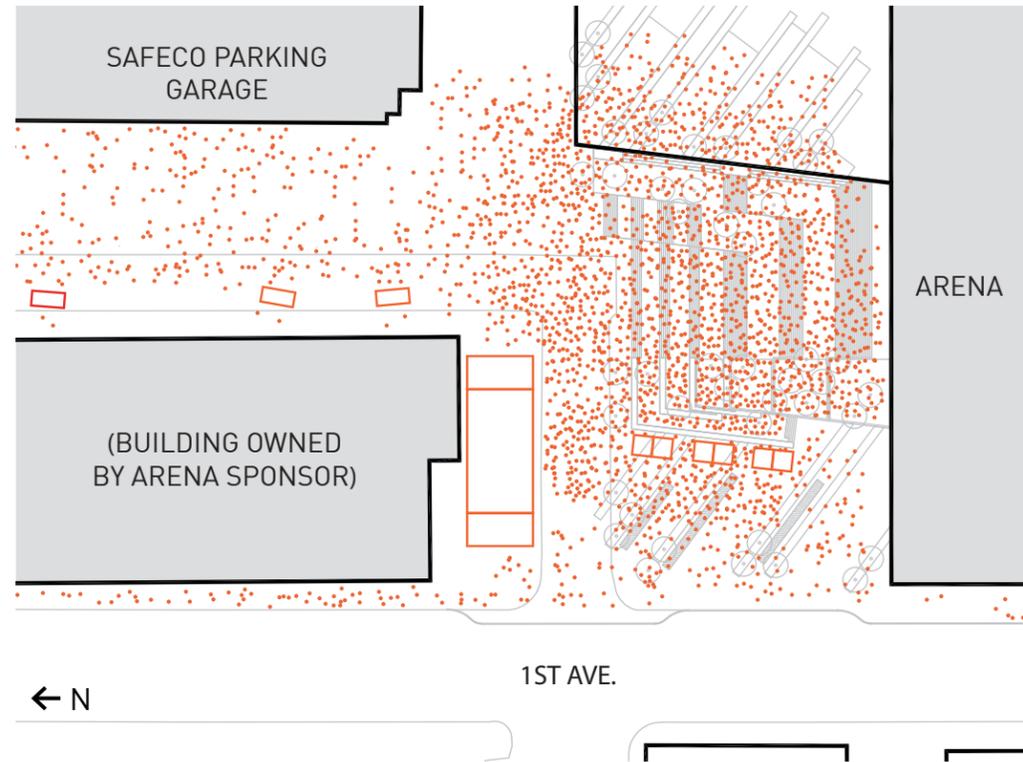
STREET EDGE ACTIVATION





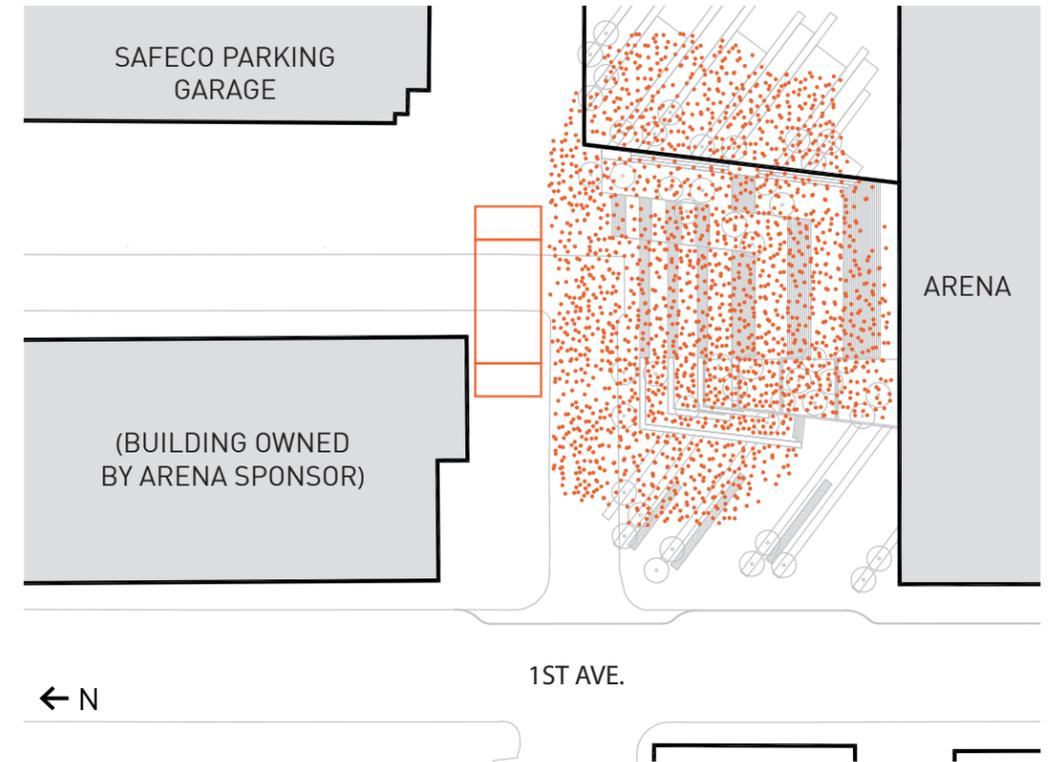
GAME DAY FAN ZONE
10,000 crowd circulation required

During home games, the Plaza becomes the major entry space for the arena. On these days, the plaza transforms to create circulation space for approximately 10,000 fans entering and leaving the arena. The program for this space could vary, including kiosks, food trucks, or small performance stages to entertain the crowd before game time.



TELEVISED SPORTING EVENT/CONCERT
4,000 standing audience

The Plaza can accommodate a medium-sized outdoor concert with a standing audience of 8,000 people and a total stage area measuring 35' x 75'. There may be opportunities to use this space as a free outdoor music venue in collaboration with other local music festivals or erect a large screen for a televised sporting event.

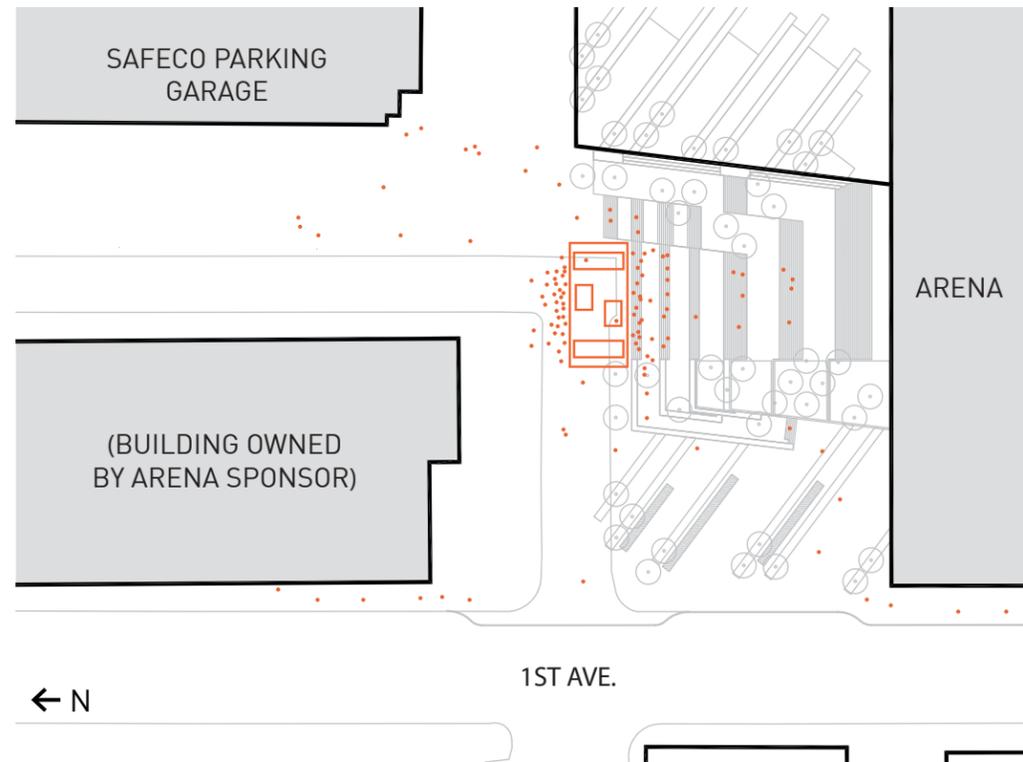


SKATE BOARD PARK
35' x 75' skate park

Plaza can accommodate a 35' x 75' temporary skate board park open to the public or facilitated for demonstrations.

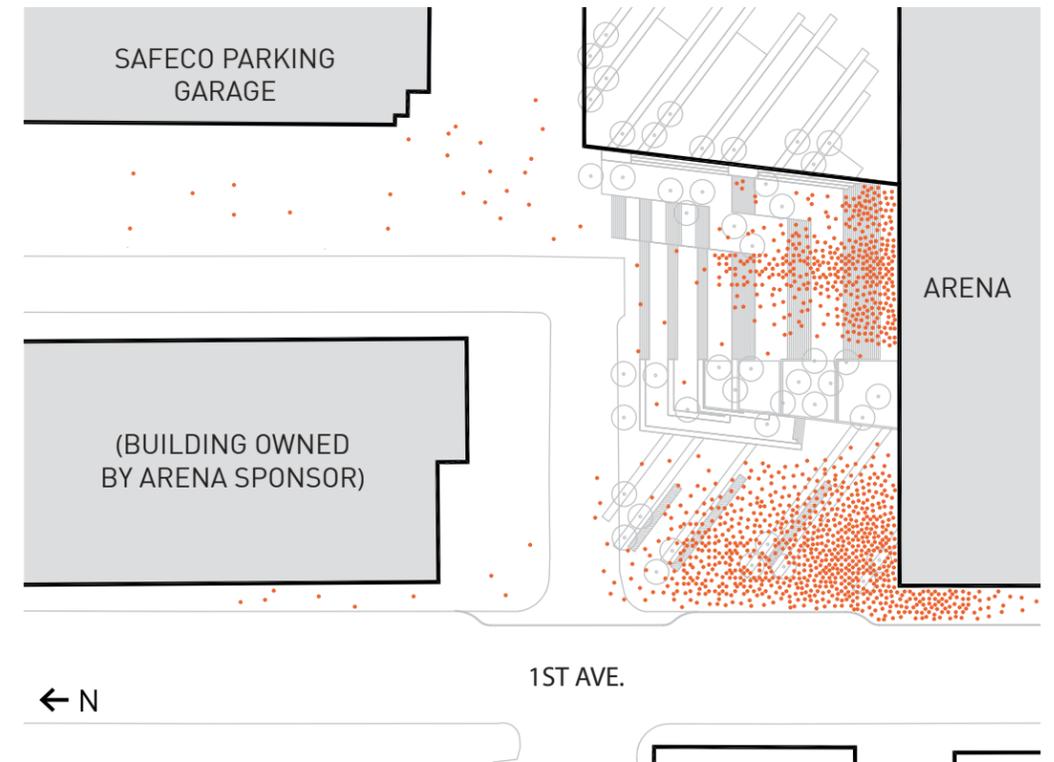
SAND VOLLEYBALL / TENNIS
1 volleyball/tennis court

Plaza can accommodate 1 doubles sand volleyball court or one doubles tennis court. Volleyball court measures 70' x 45' and tennis court measures 145' x 60'.



GAME DAY QUEUING
40,000+ sf queuing space

Game day ticket holders can queue in the lower plaza area near northwest entry doors and on stairs for upper entry at main concourse.





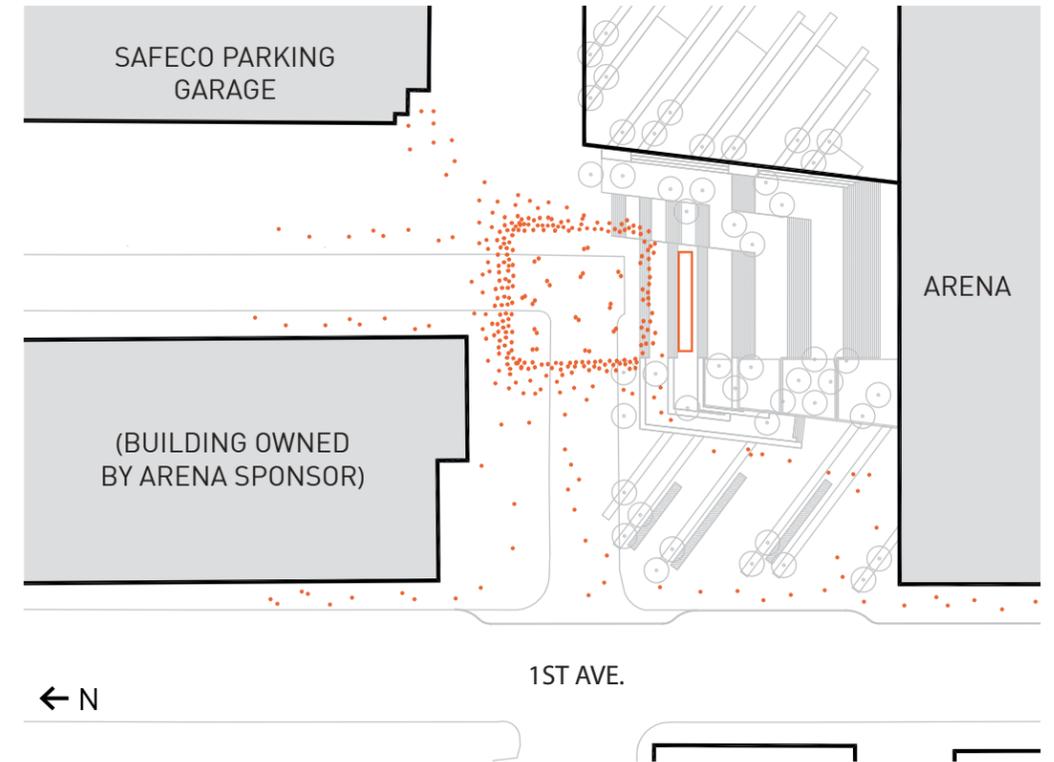
ART FAIR
flexible number of art display tents

An art fair is created in the Plaza and down Occidental with 12'x 12' tents and food trucks lining Massachusetts St and Occidental Ave. The program could extend down Occidental to accommodate more tents or food trucks depending on the volume. Temporary picnic tables and rest rooms could be brought in to facilitate the event.



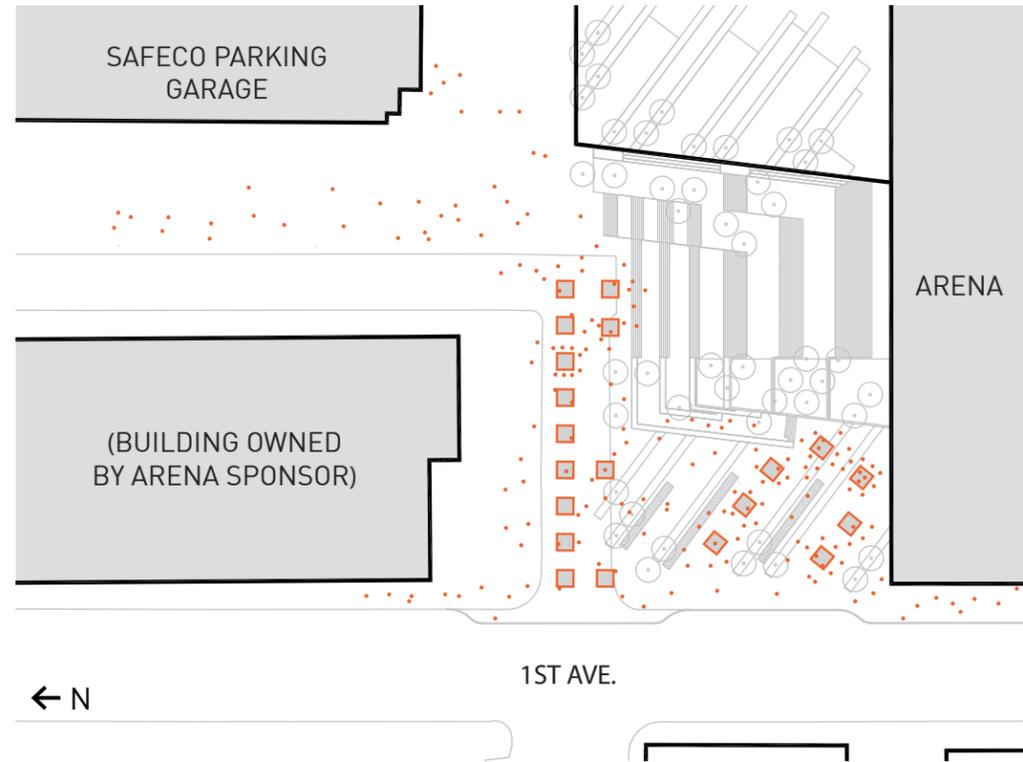
BALLROOM DANCING

40 dancing couples
Plaza can host a dance competition, with over 5,700 sf for a stage area - enough to accommodate 40 dancing couples (@ 140 sf per couple). A 60' x 10' judging area is placed along the south perimeter at an upper level, perimeter accommodates a standing audience of spectators in addition to those who watch from stair. Alternatively, this program accommodates dance classes or demonstrations.



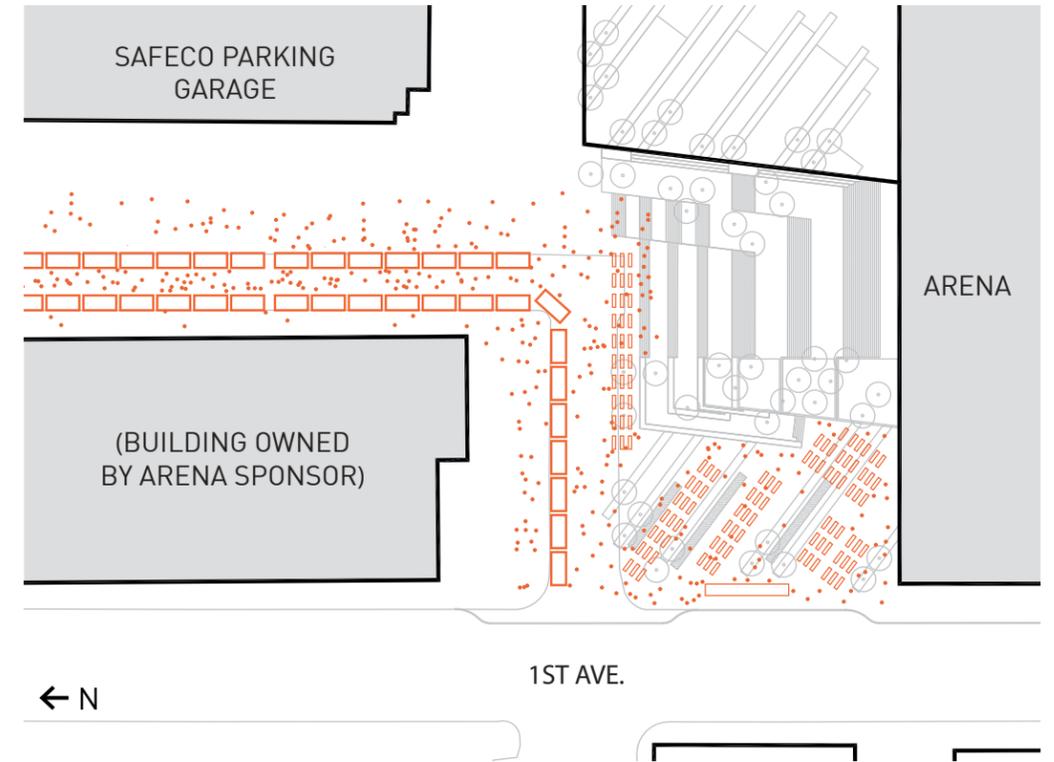
OVERSIZED BOARD GAMES

20 oversize play boards
Plaza can be activated as a board game zone in the summertime, by accommodating oversize playing boards such as scrabble, twister, checkers or chess. The size of playing boards may vary - the diagram shows twenty (20) 10'x 10' boards



FOOD FESTIVAL

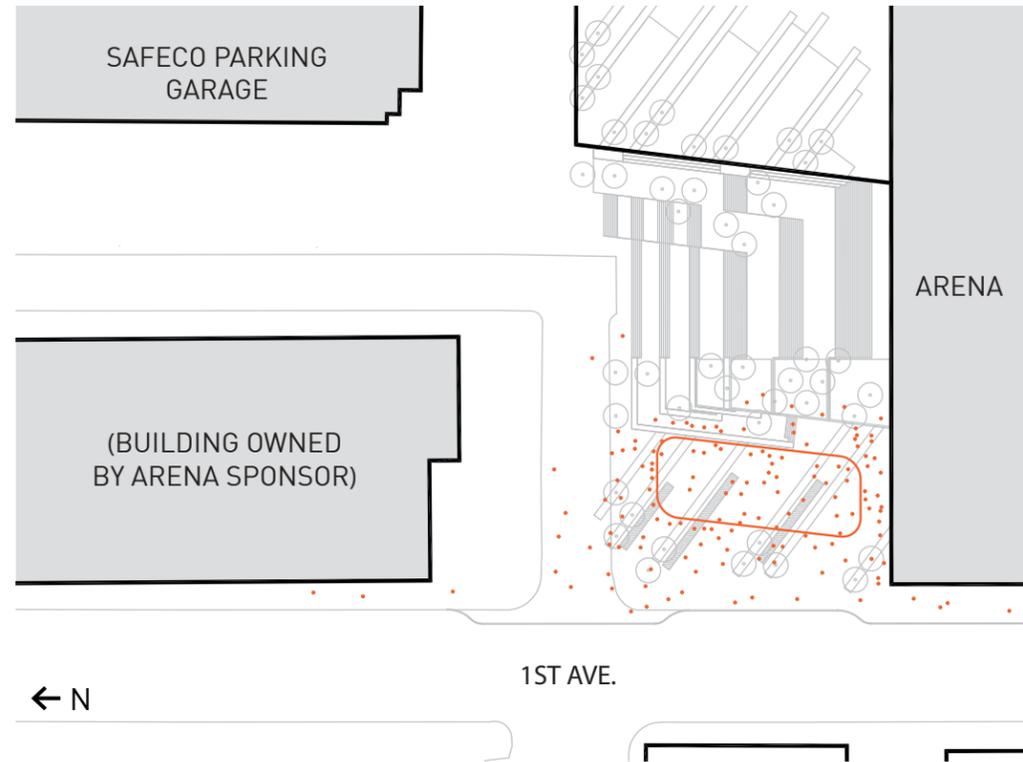
444 seated patrons
A food festival is created in the Plaza with standard-size food trucks lining Massachusetts St and Occidental Ave. Each 8' x 3' table seats 4 patrons. The program could extend down Occidental to accommodate more food trucks depending on the volume. Temporary picnic tables and rest rooms could be brought in to facilitate the event.





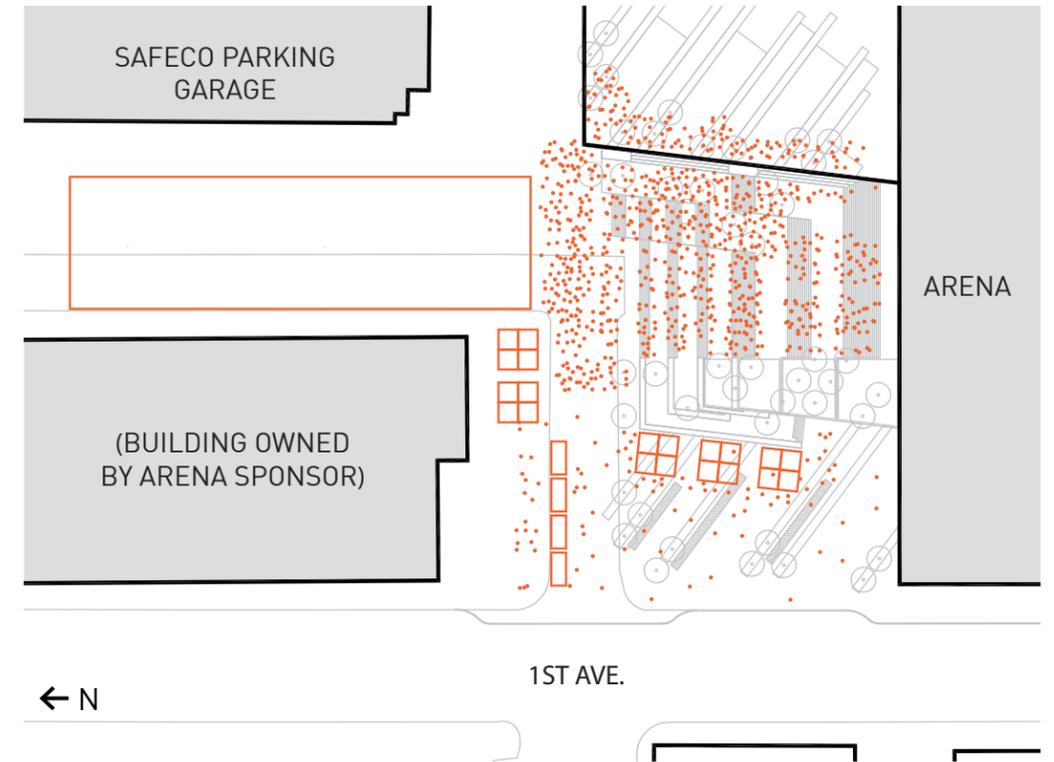
ICE SKATING RINK
5600 sf temporary public rink

Within the lower plaza space, the Plaza can accommodate an ice skating rink approximately 5600 sf. in size for public skating sessions, figure skating, or hockey demonstrations. At 35 sf per person, a maximum of 160 skaters can fit on the ice surface.



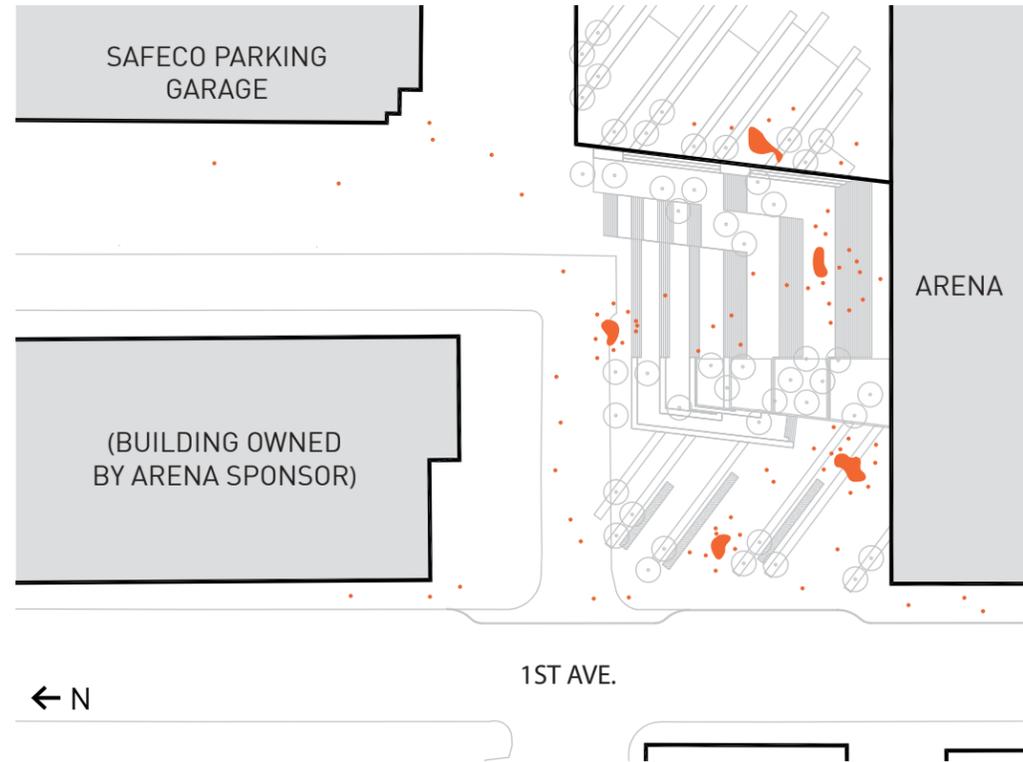
SNOWBOARD/SKI HILL
280' x 80' temporary snow hill

Extending down Occidental, a 280' x 80' snow hill can be accommodated for snowboard or ski demonstrations. Lower plaza could include food trucks, hospitality tents and additional festival space to facilitate event.



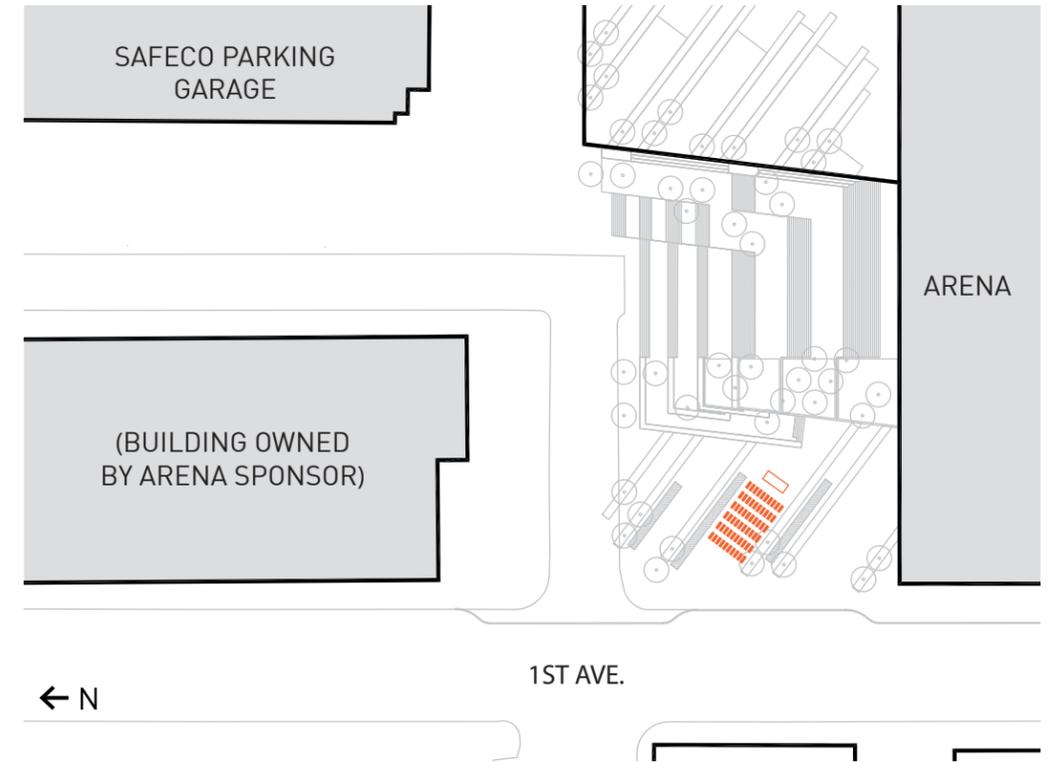
PUBLIC ART DISPLAY
multiple sites for large scale art installations

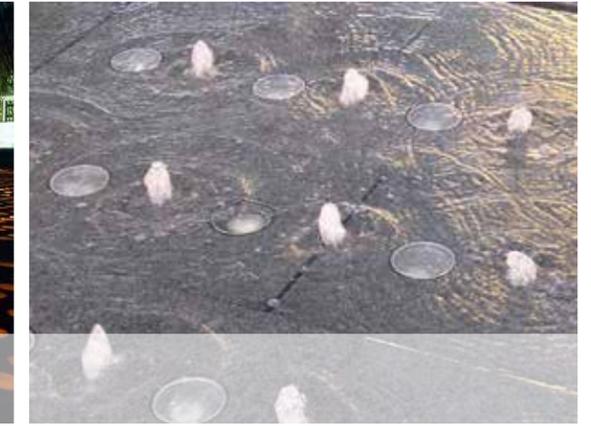
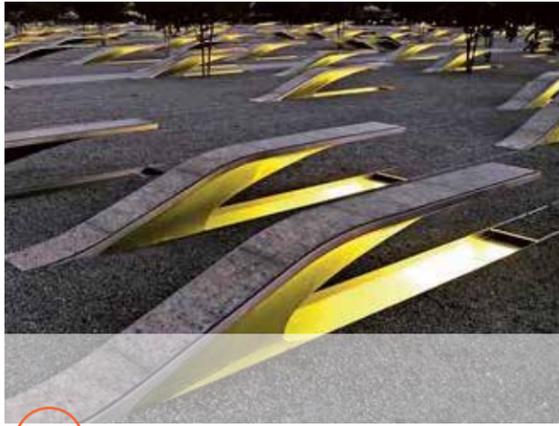
Multiple large public art displays within the Plaza space creates a landmark destination within the City of Seattle. The public art piece(s) may be composed of one large object, or several small objects. It may be a seasonally permanent feature, or a rotating display.



EXERCISE CLASS
50 participants

Plaza can become an outdoor exercise space for yoga, aerobics, tai chi, or bootcamp classes. As an outdoor exercise space, the Plaza can accommodate 50 yoga participants, with a small stage area for an instructor at 6' x 15'.





1 PLAZA + PATHS + STAIRS LIGHTS



2 LARGE SCALE LIGHTING FEATURES



3 LIGHTING DETAILS

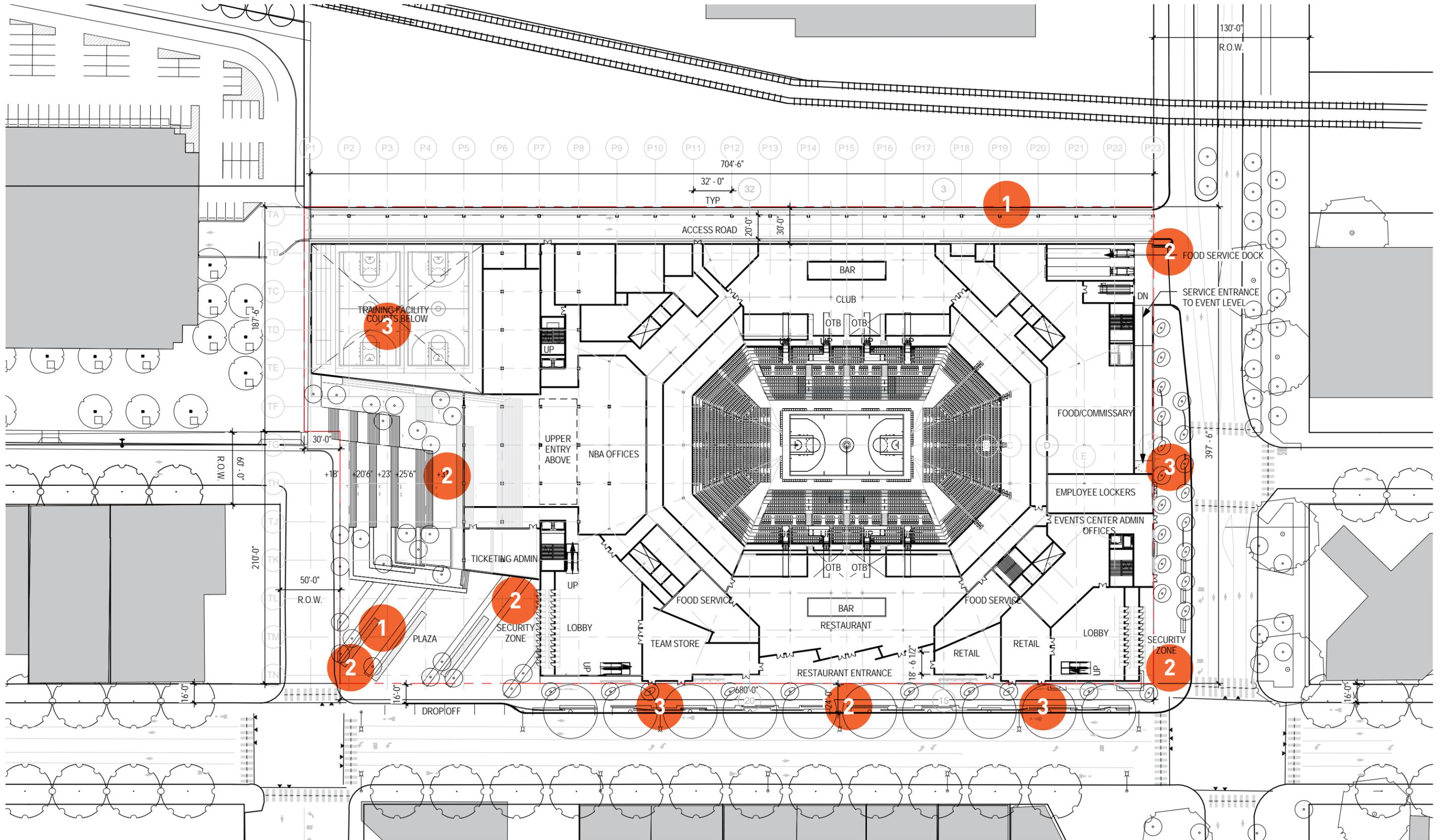
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1 EXTERIOR GRAPHIC EXPERIENCE



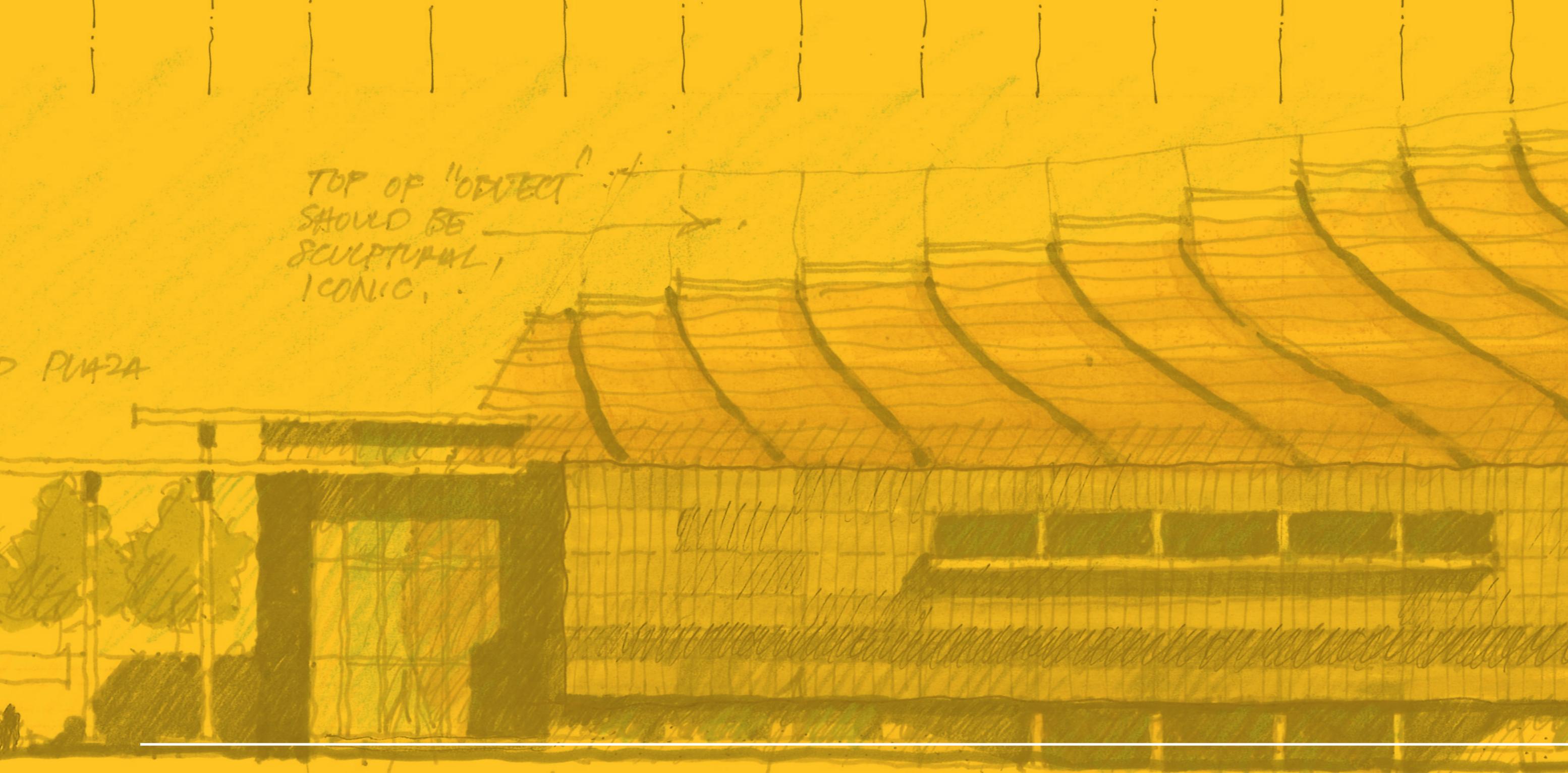
2 WAYFINDING & VEHICULAR DIRECTIONALS



3 PAGENTRY GRAPHICS

TOP OF "OBJECT"
SHOULD BE
SCULPTURAL,
ICONIC.

PLAZA



STEEL
STRUCTURE

GLASS
CURTAIN
WALL

ARCHITECTURAL CHARACTER

GLASS BASE
METAL PANEL / LOUVER SYSTEM
VARIES FROM TRANSPARENT — OPAQUE.

TRANSPARENT
TO SEE "OBJECT"

CLUB ENTRANCE



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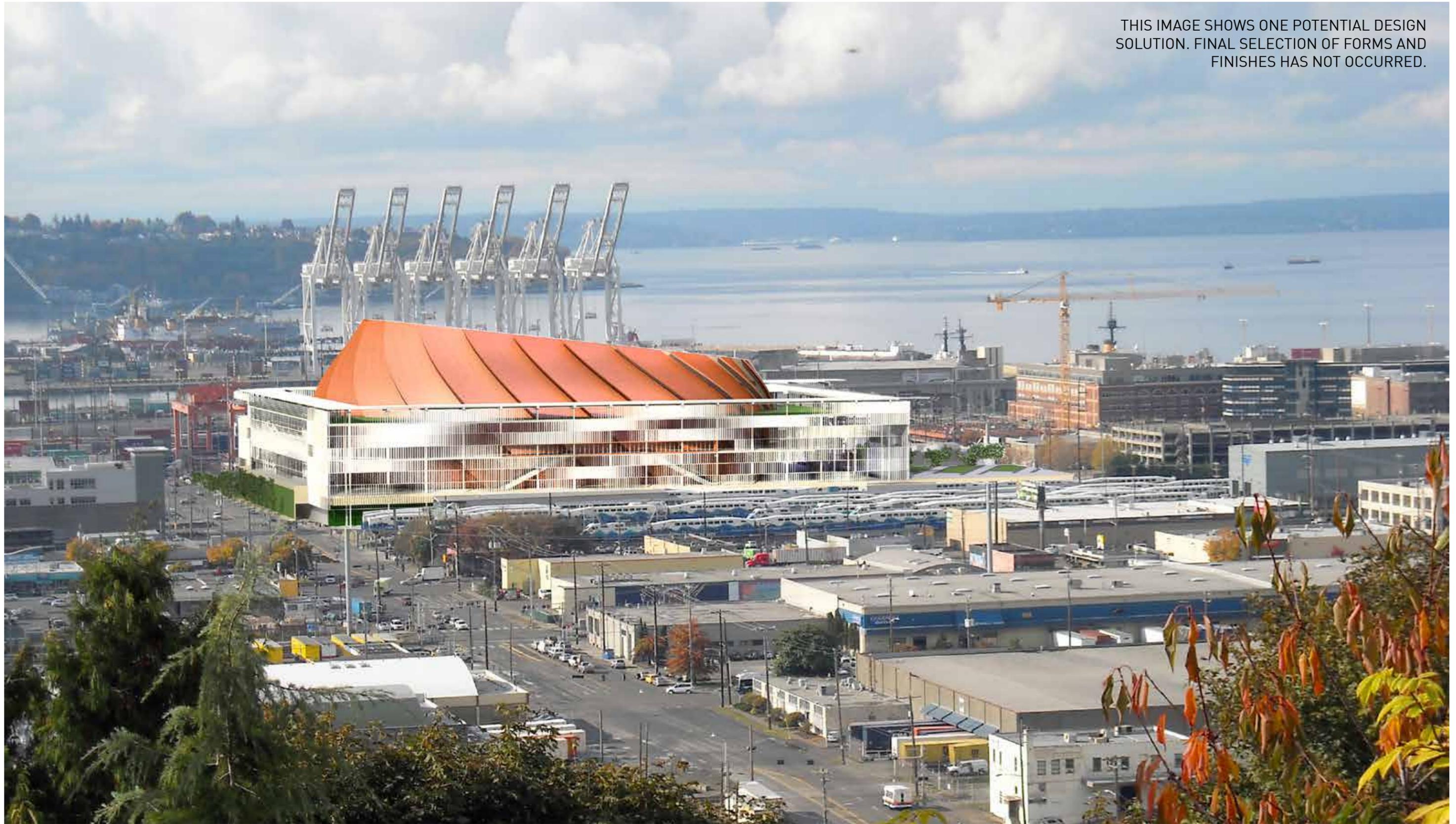
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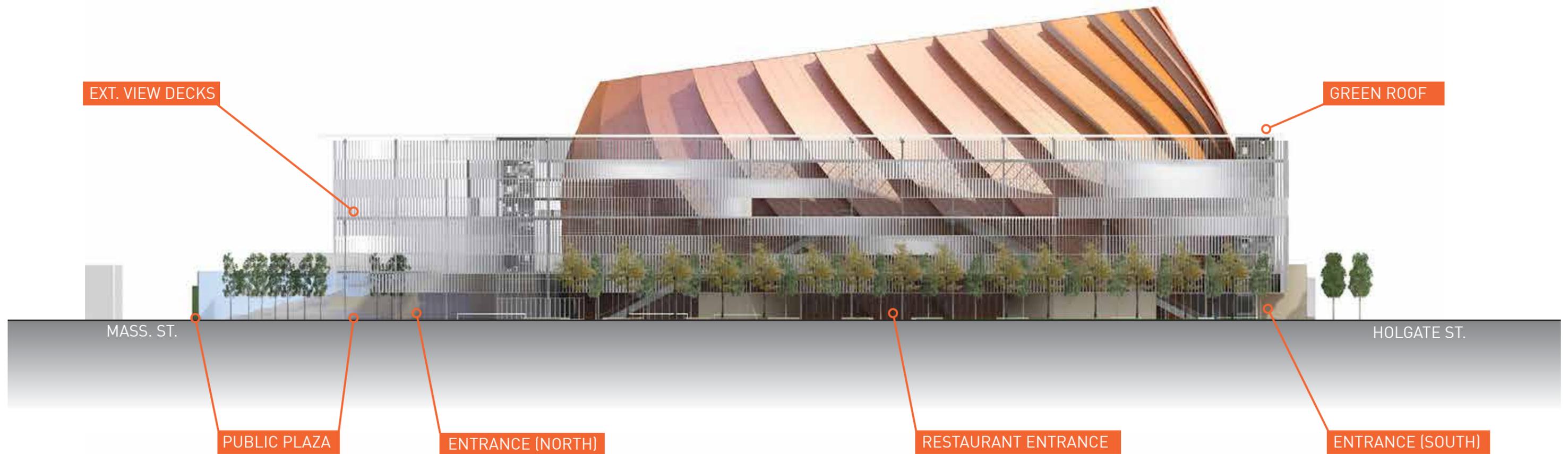
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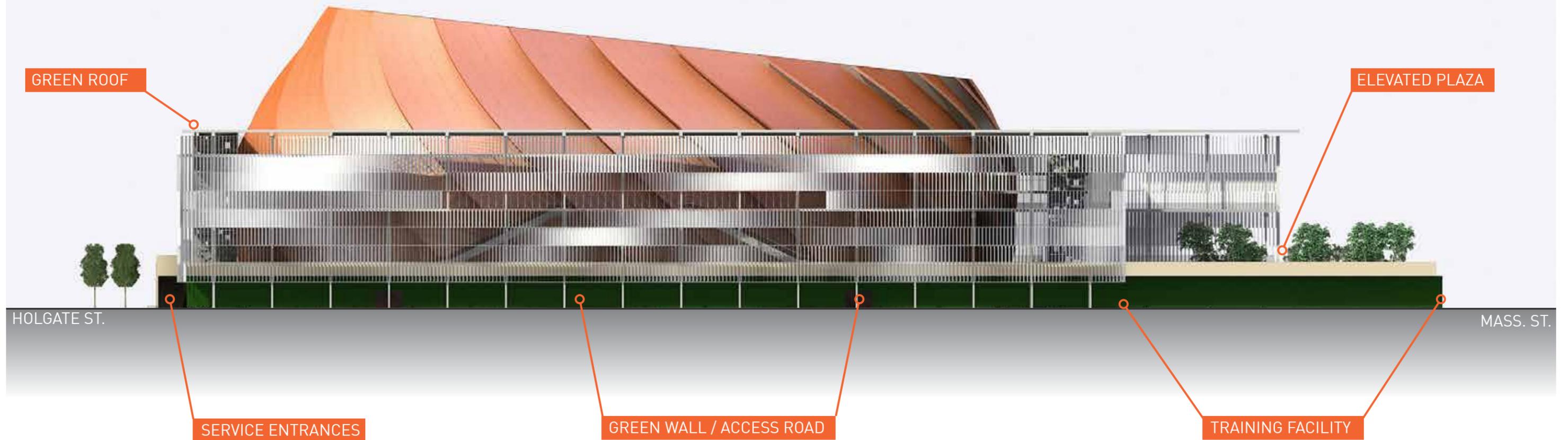
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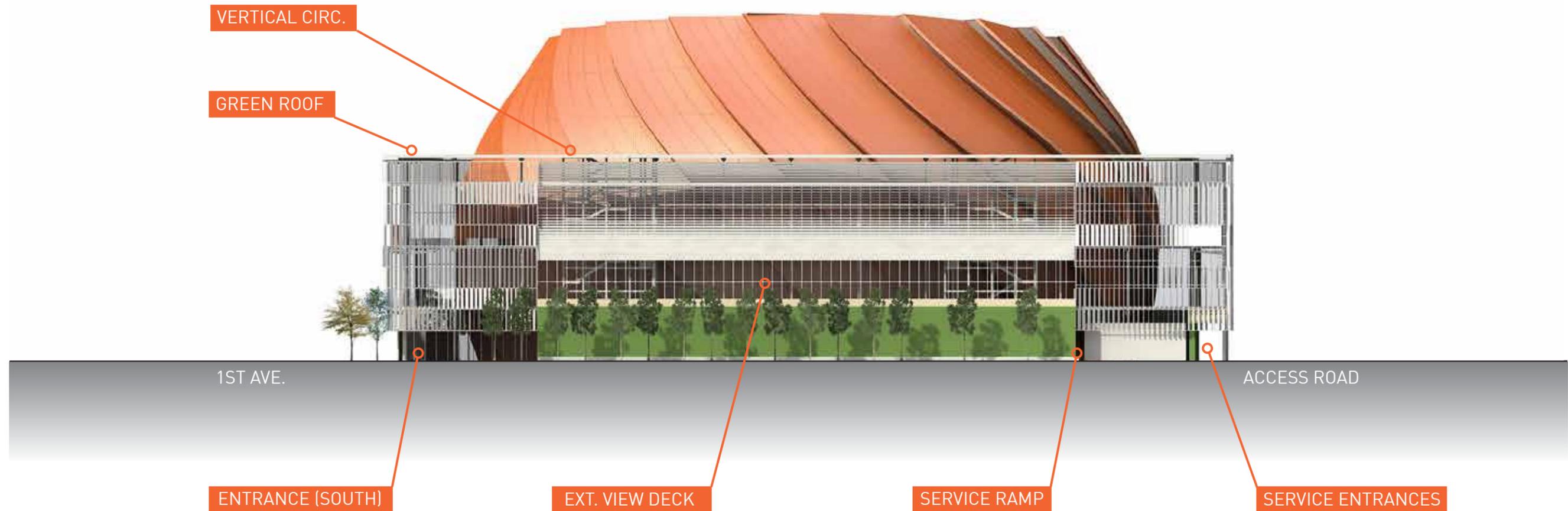
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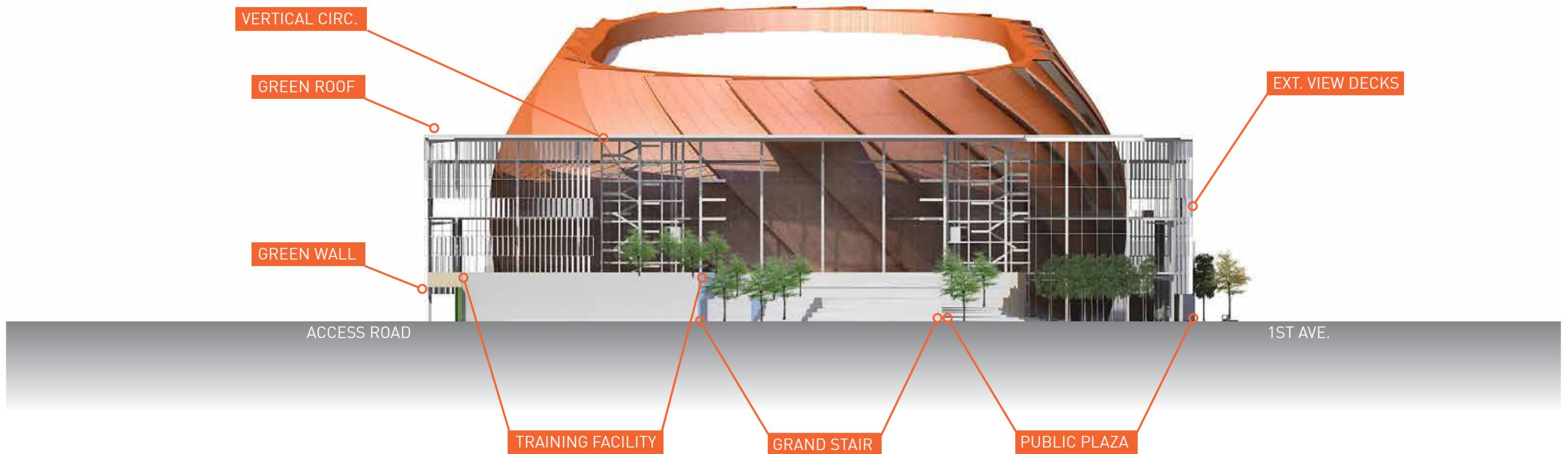
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METAL PANEL



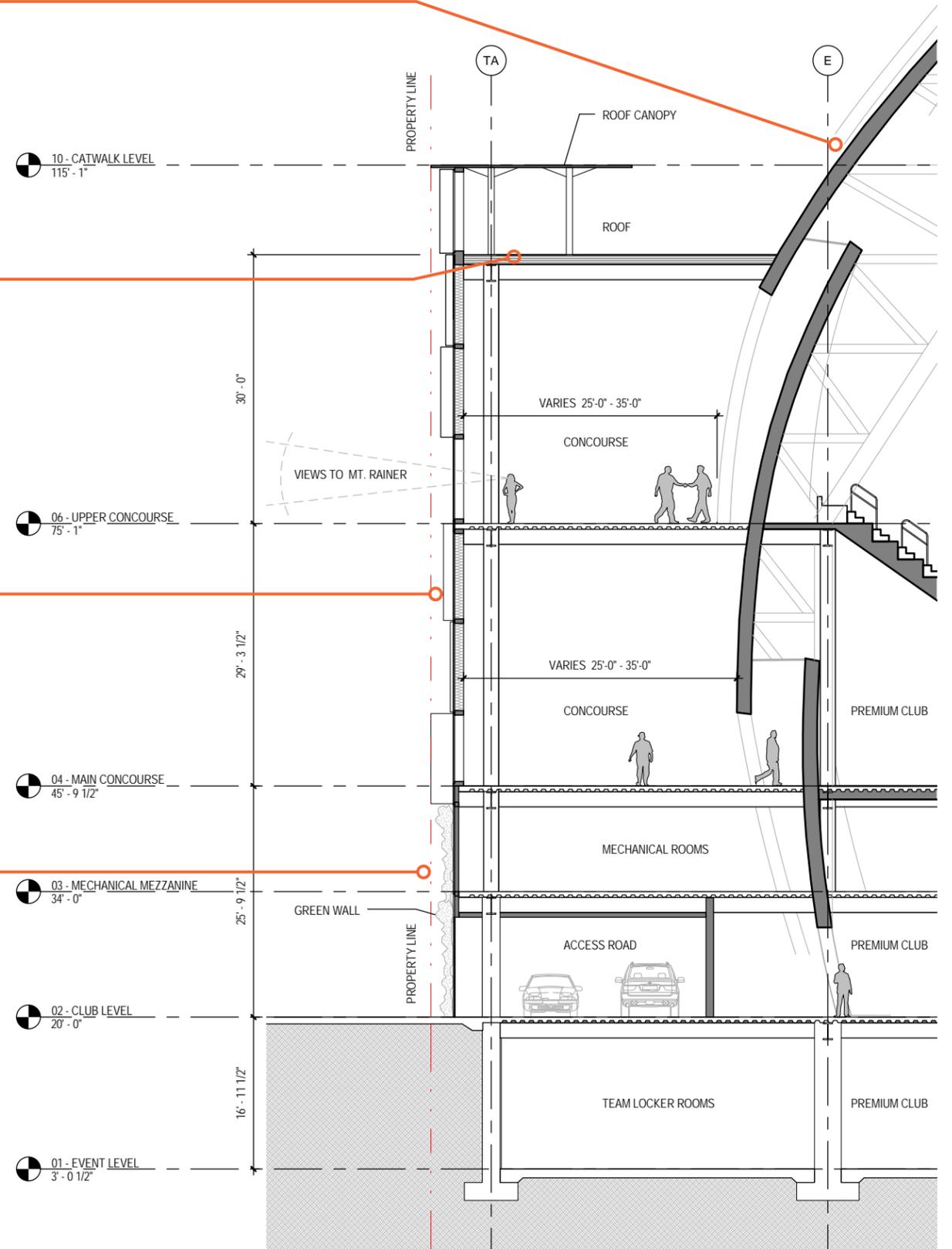
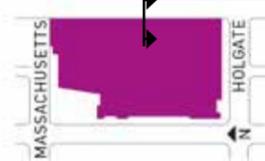
SEDUM ROOF

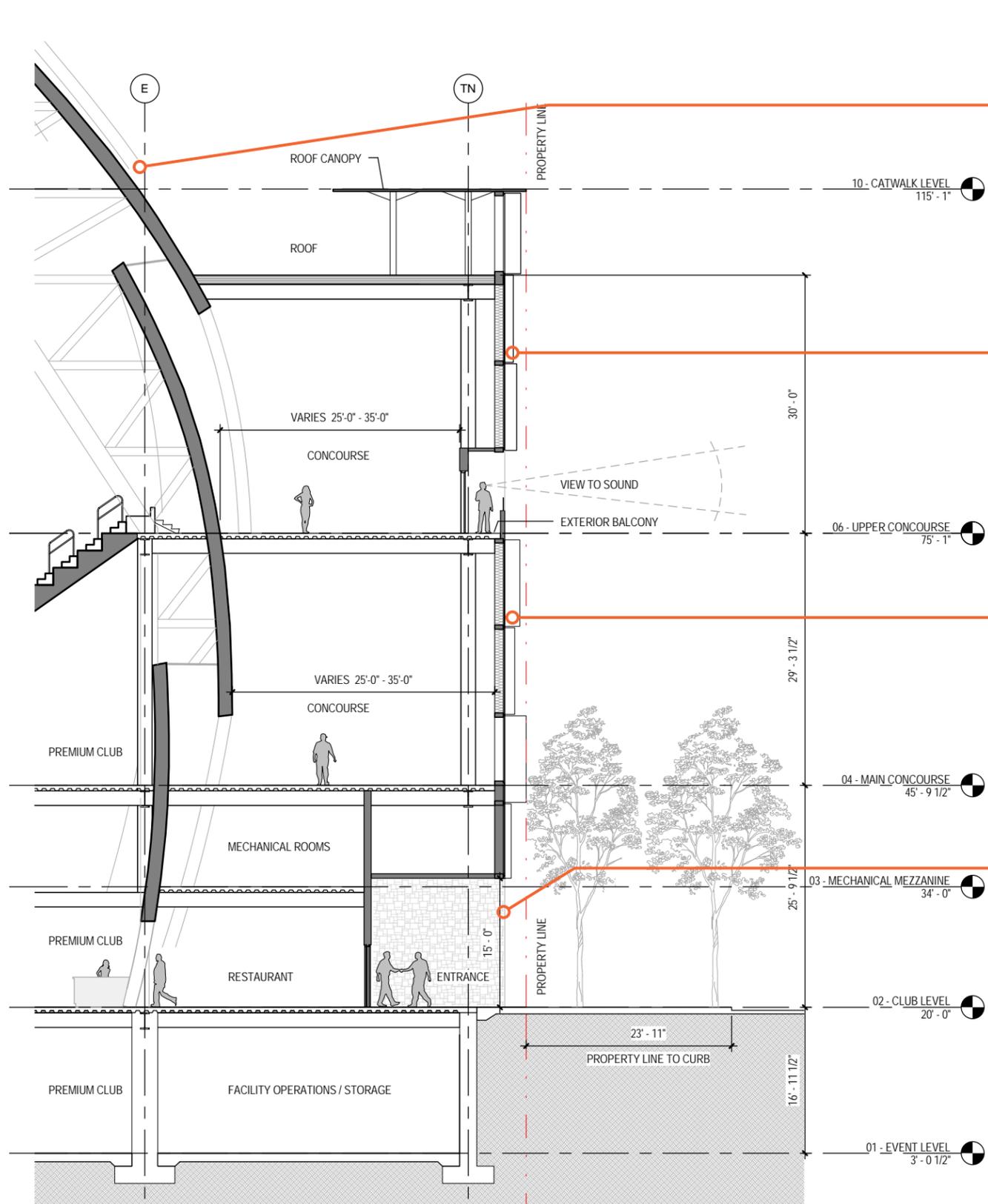


UNITIZED ALUMINUM CURTAIN WALL SYSTEM

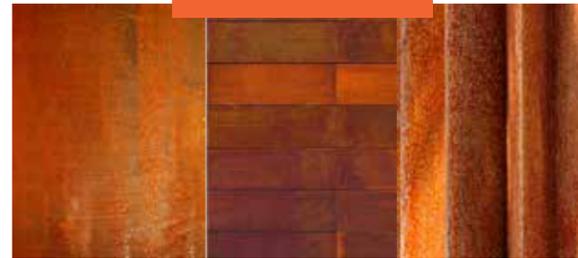


GREEN WALL





METAL PANEL



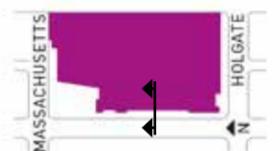
PERFORATED METAL



UNITIZED ALUMINUM CURTAIN WALL SYSTEM



STONE





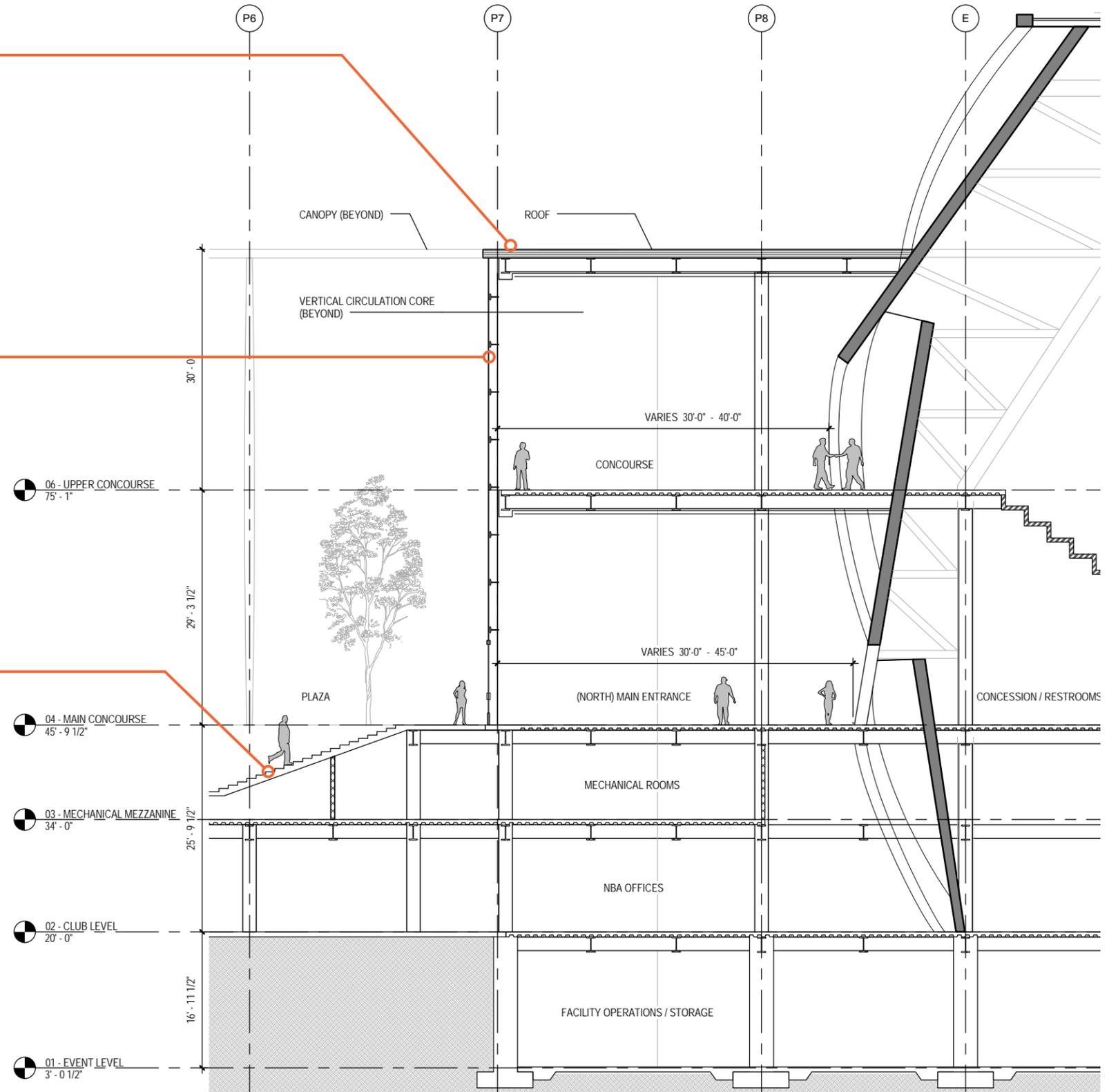
SEDUM ROOF

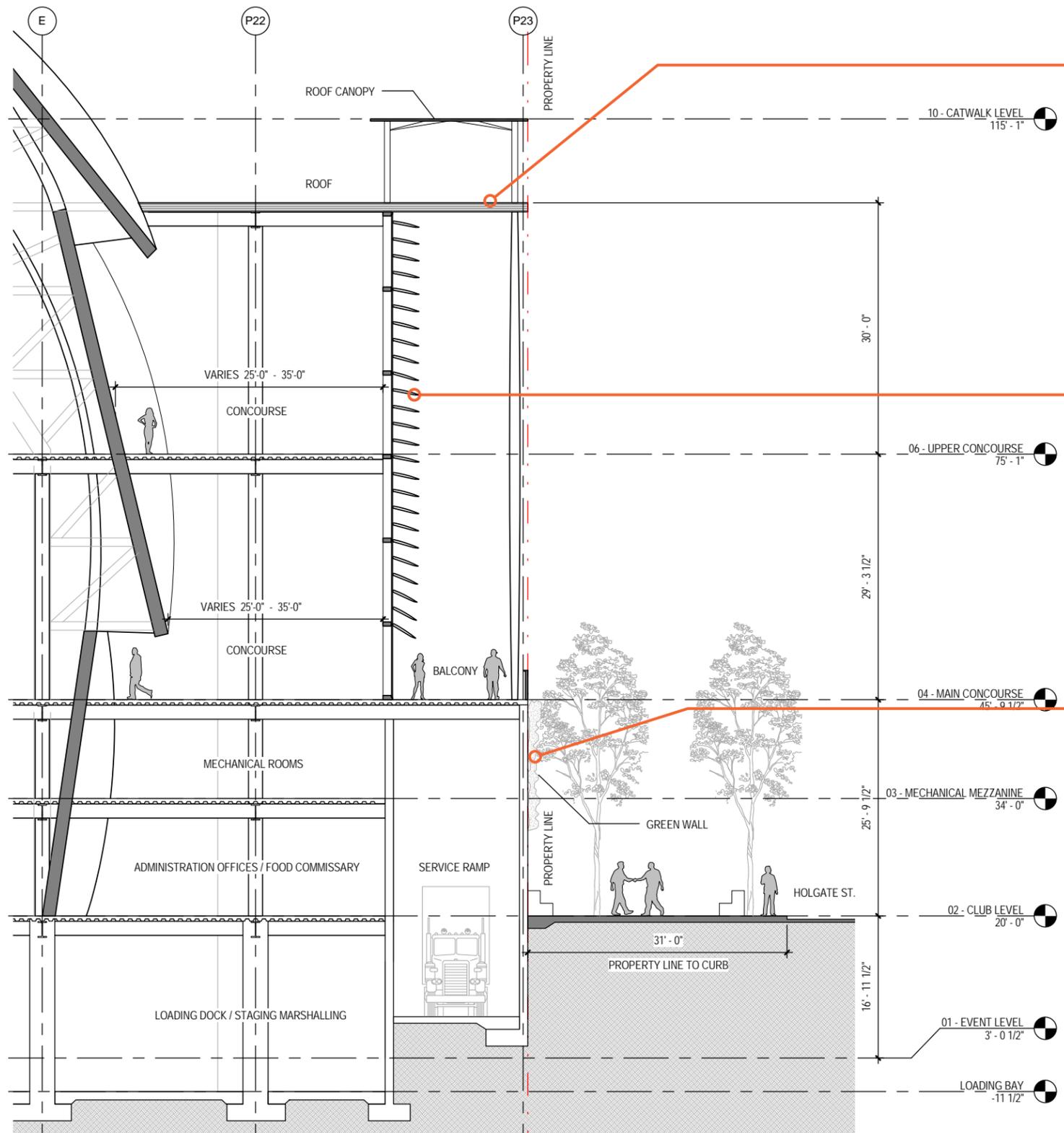


CURTAIN WALL SYSTEM



PLAZA PAVERS





SEDUM ROOF



UNITIZED ALUMINUM CURTAIN WALL SYSTEM



GREENWALL



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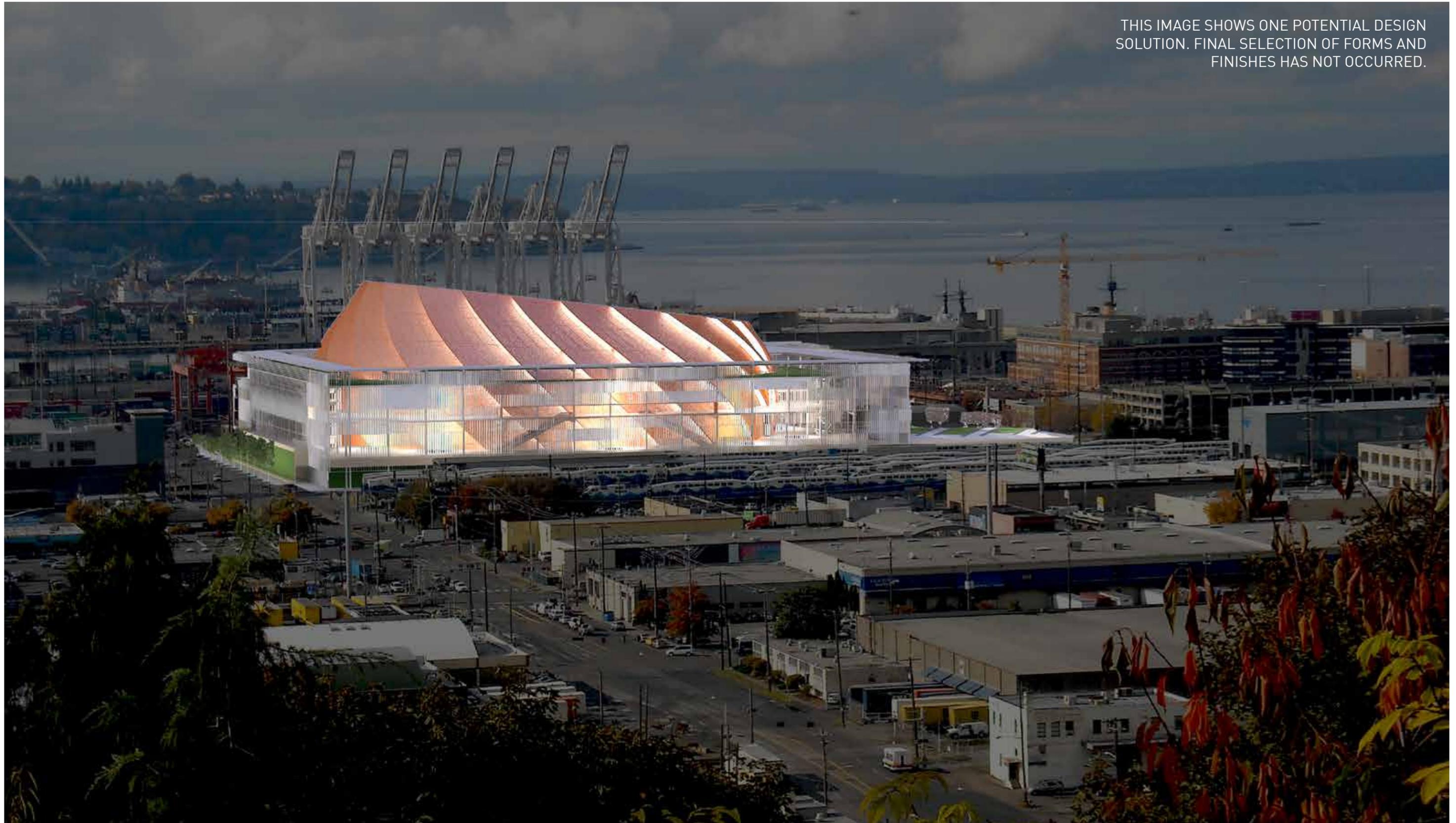
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SHORT SMALL/MEDIUM TREES

VINE WALL

20' TALL @ 900 L.F. (18,000 S.F.)

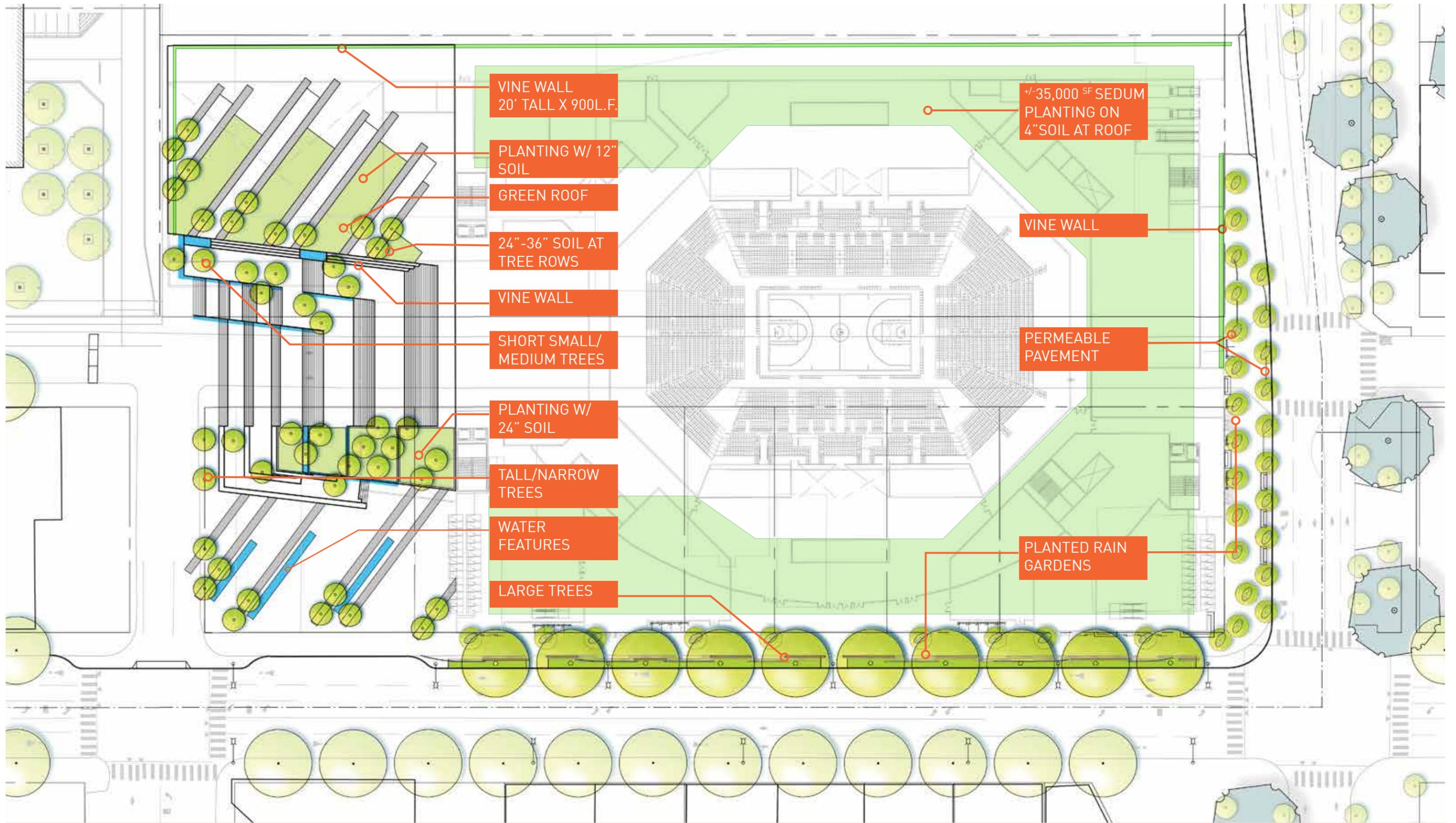
(LAWN?) PLANTING w/ 12" SOIL

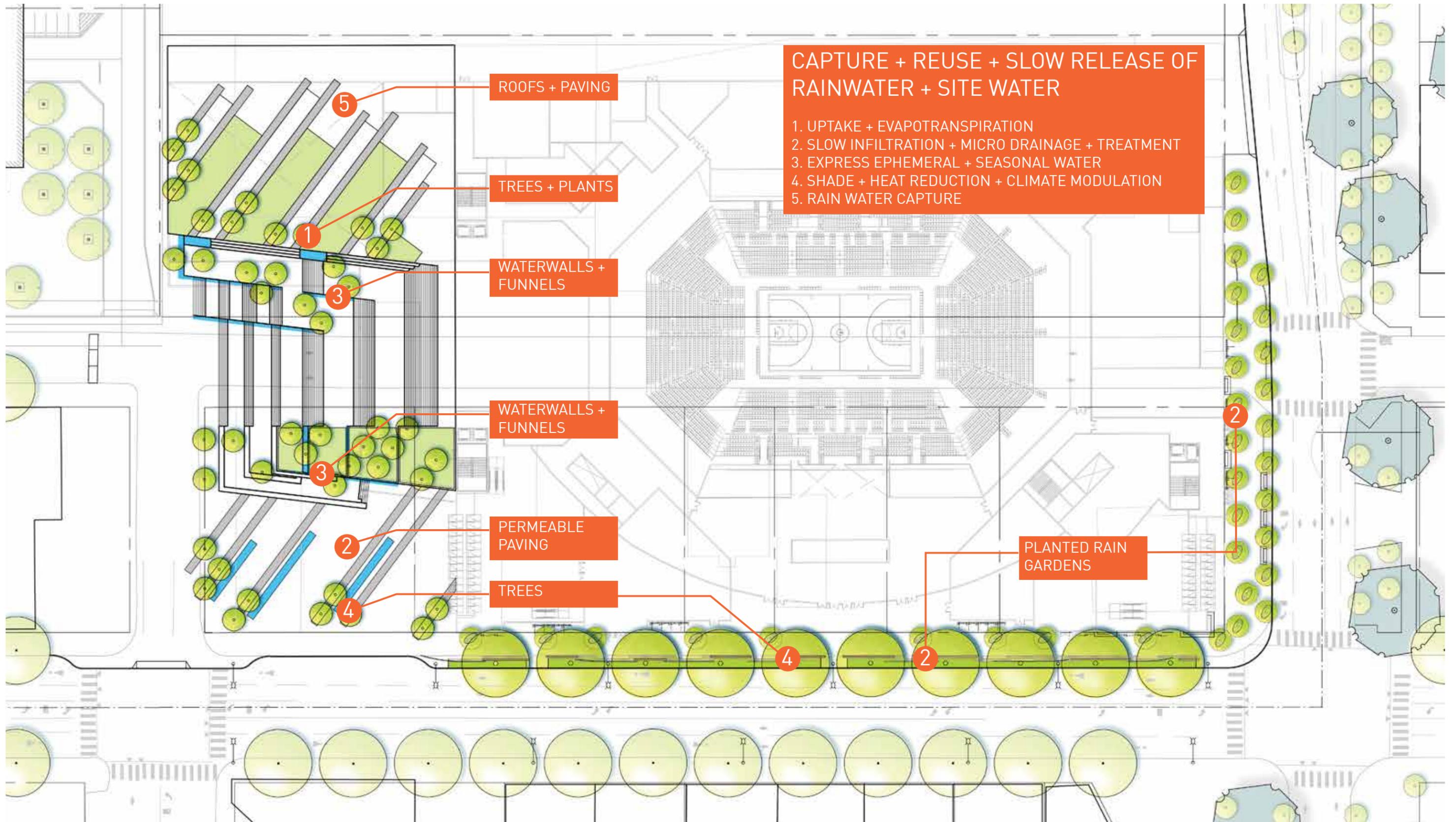
24"-36" SOIL @ TREE ROWS w/ PERMEABLE PAVEMENT

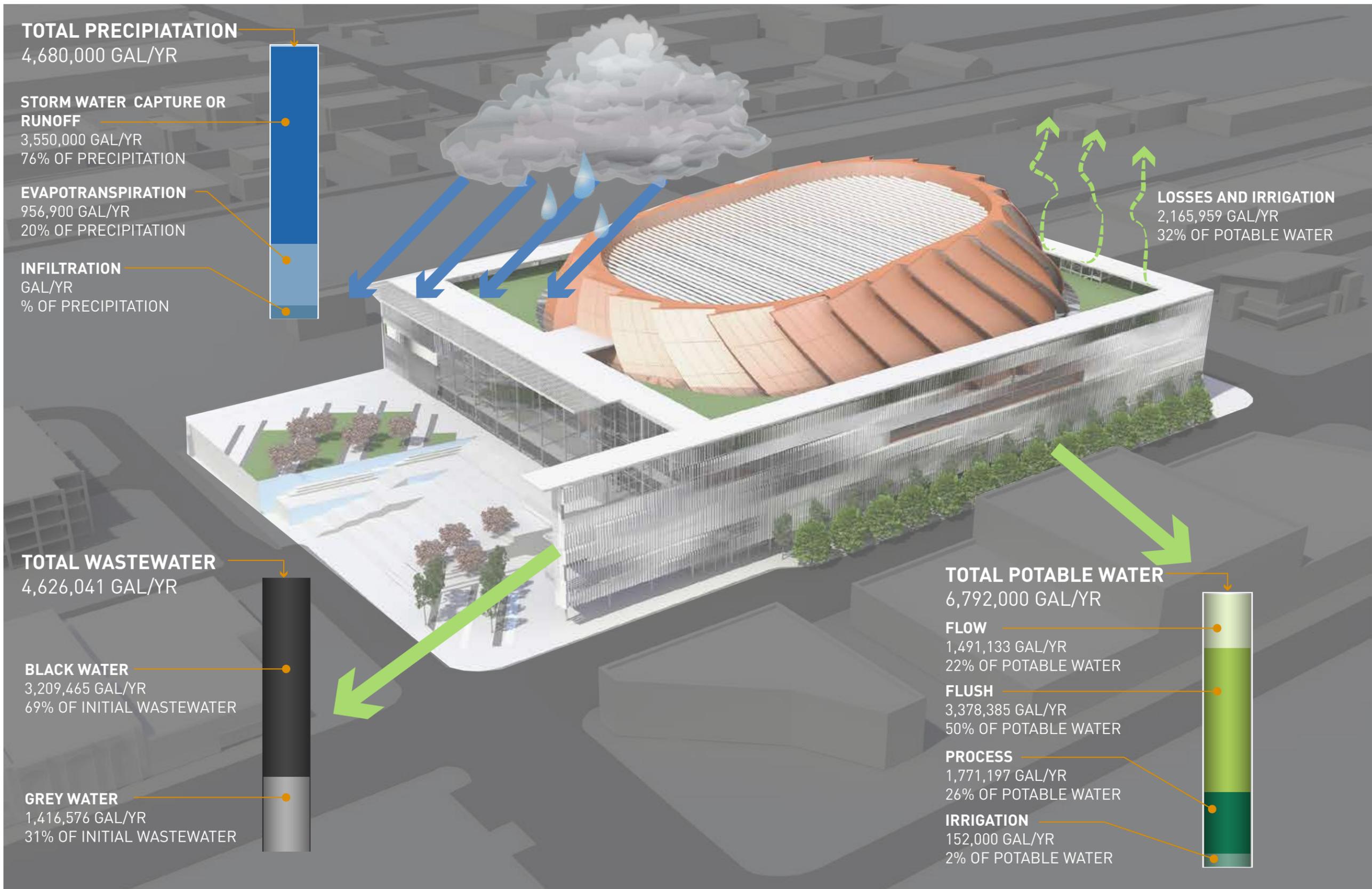
GREEN ROOF

SUSTAINABILITY









TYPICAL ARENA HVAC ISSUES

THERMAL COMFORT

- Pre-cooling of the seating bowl leads to cool conditions
- High level supply of cold air can feel drafty
- Heavily glazed areas can feel warm/cool

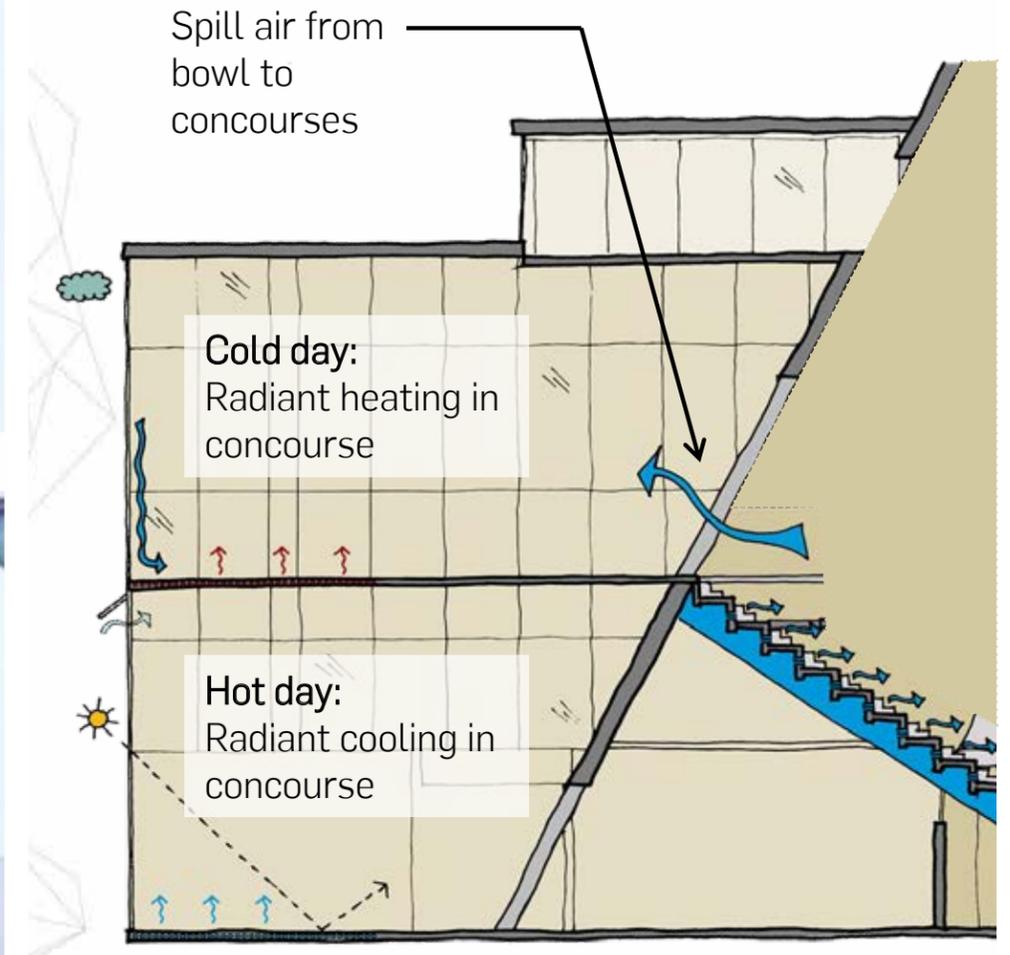
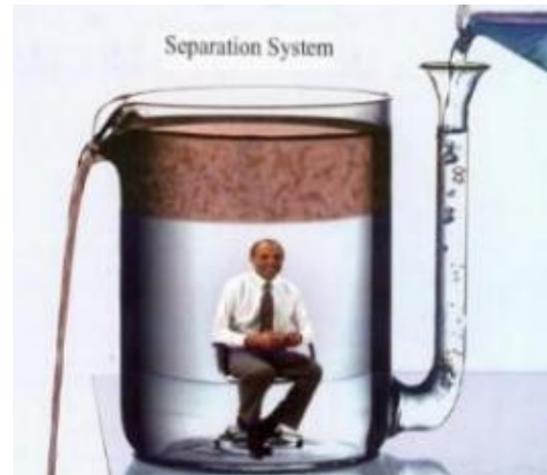
INDOOR AIR QUALITY

- High occupant density
- High level supply in large volumes has low air change effectiveness
- Recirculation of indoor air contaminants

PROPOSED DESIGN

DISPLACEMENT SYSTEM

- Air supplied at low level and low velocity
- Conditioning only the occupied space
- COLD DAY- Radiant heating in concourse
- HOT DAY- Radiant cooling in concourse



BUILDING ENVELOPE

Seattle's climate is consistently cool - heating is a bigger issue than cooling on an annual basis.

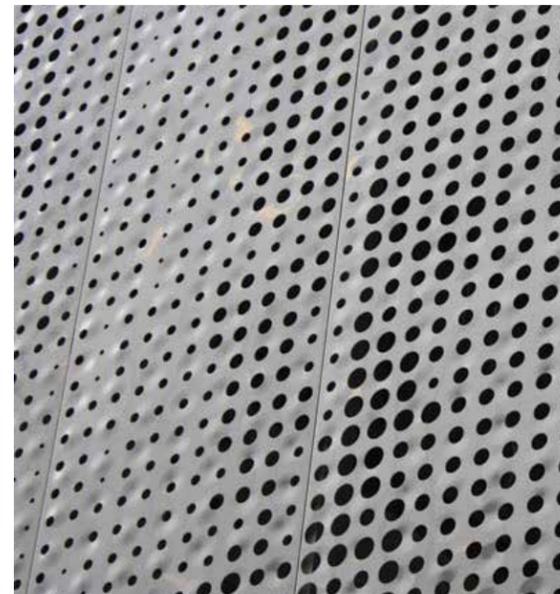
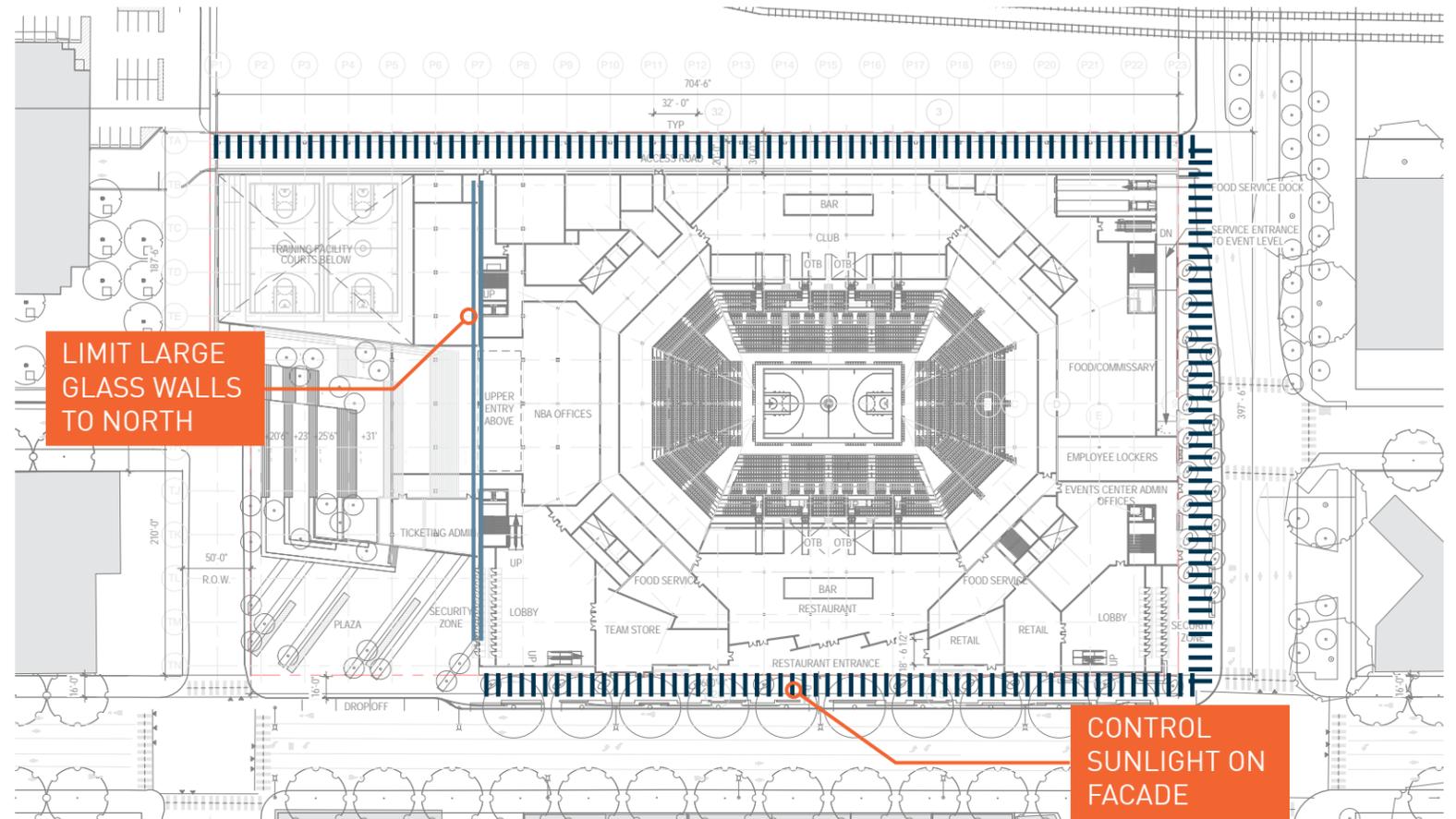
Large glazed facades need careful consideration in terms of summer and winter raft and radiant effects.

Limit large glazed expansions to the North facade

Control sunlight on the E, S and W elevations using horizontal and vertical louvers, overhangs, and fritted glass.

Natural light can provide amenity and natural lighting savings.

Light daily uses with natural light - Training Facility, Retail, Restaurant



HVAC PLANT OPPORTUNITIES

Heat Recovery [required by SEC]

Heat Pump Heating

Ice Refrigeration Heat Recovery

Water Source Food Refrigeration

Ground Source Heat Pumps

Desiccant Dehumidification

Thermal Storage

DISTRICT PLANT OPPORTUNITIES

The 2,000 ton chilled water plant and 15M BTU boiler plant for the arena could service approximately 750,000 SF of additional commercial office.

The arena could also anchor the development of a broader district plant for the area with additional capacity either in the building or in future satellite thermal plants.

Non-potable water could also be exported to adjacent buildings.

RENEWABLE ENERGY OPPORTUNITIES

Solar Thermal Hot Water

Photovoltaics [PV]



PHASE CHANGE THERMAL STORAGE AT FEDERAL CENTER SOUTH



SOLAR THERMAL HOT WATER



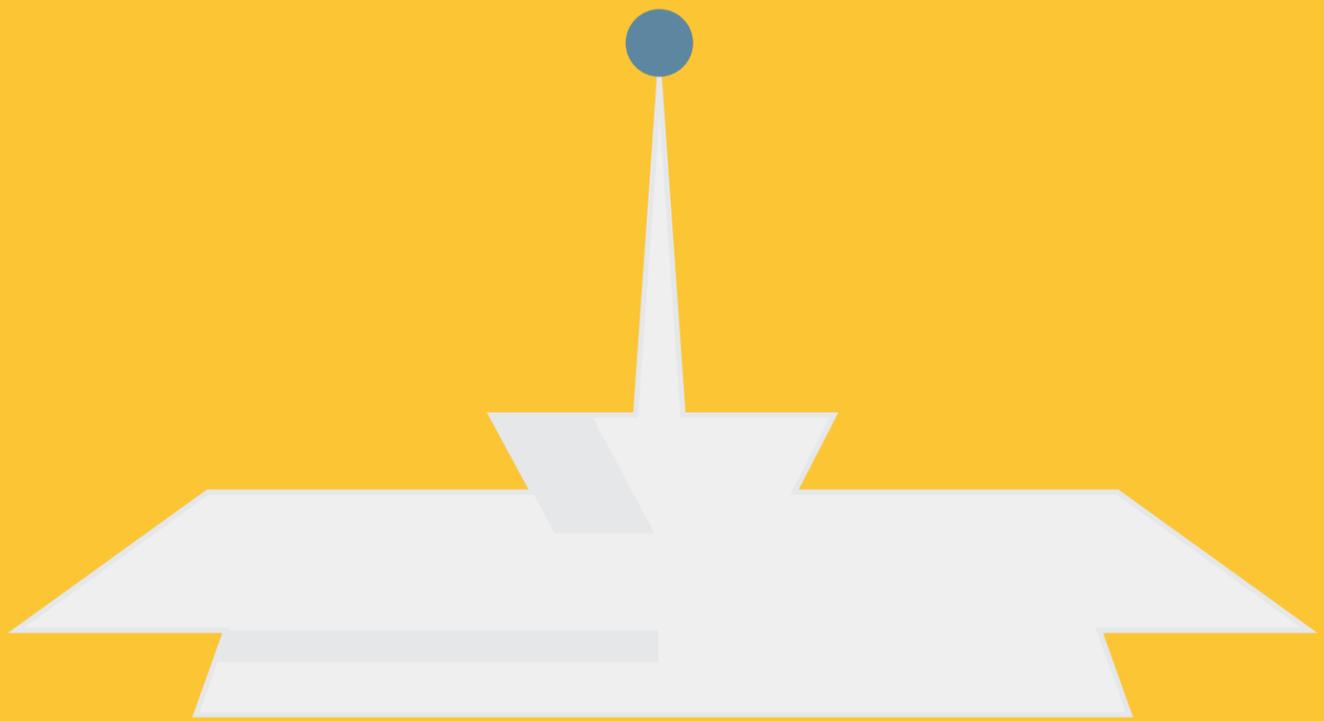
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