PROVIDENCE PARK STADIUM EXPANSION
DESIGN REVIEW SUBMISSION

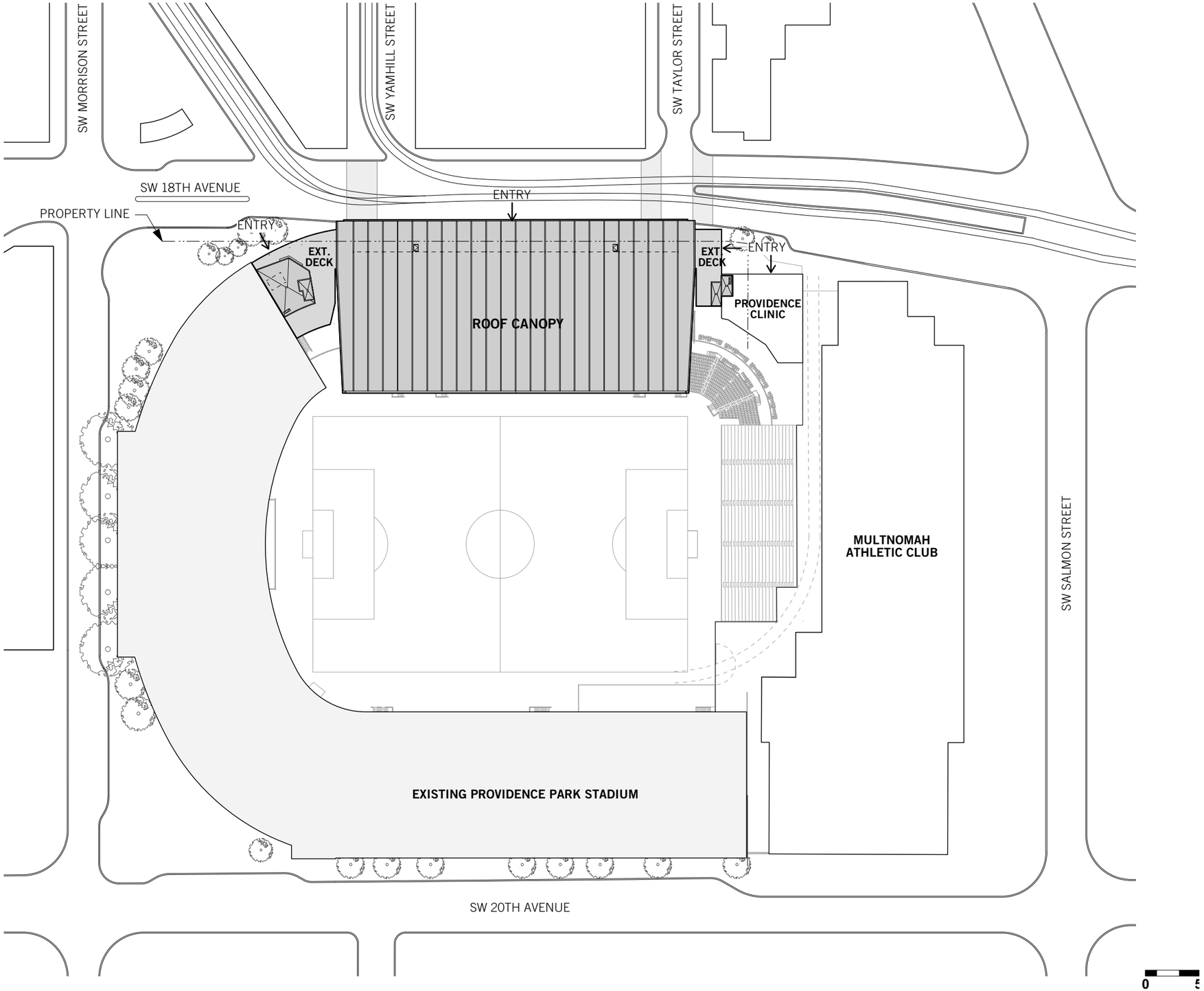
ALLIED WORKS ARCHITECTURE
20 JULY 2017

ARCHITECTURAL DRAWINGS

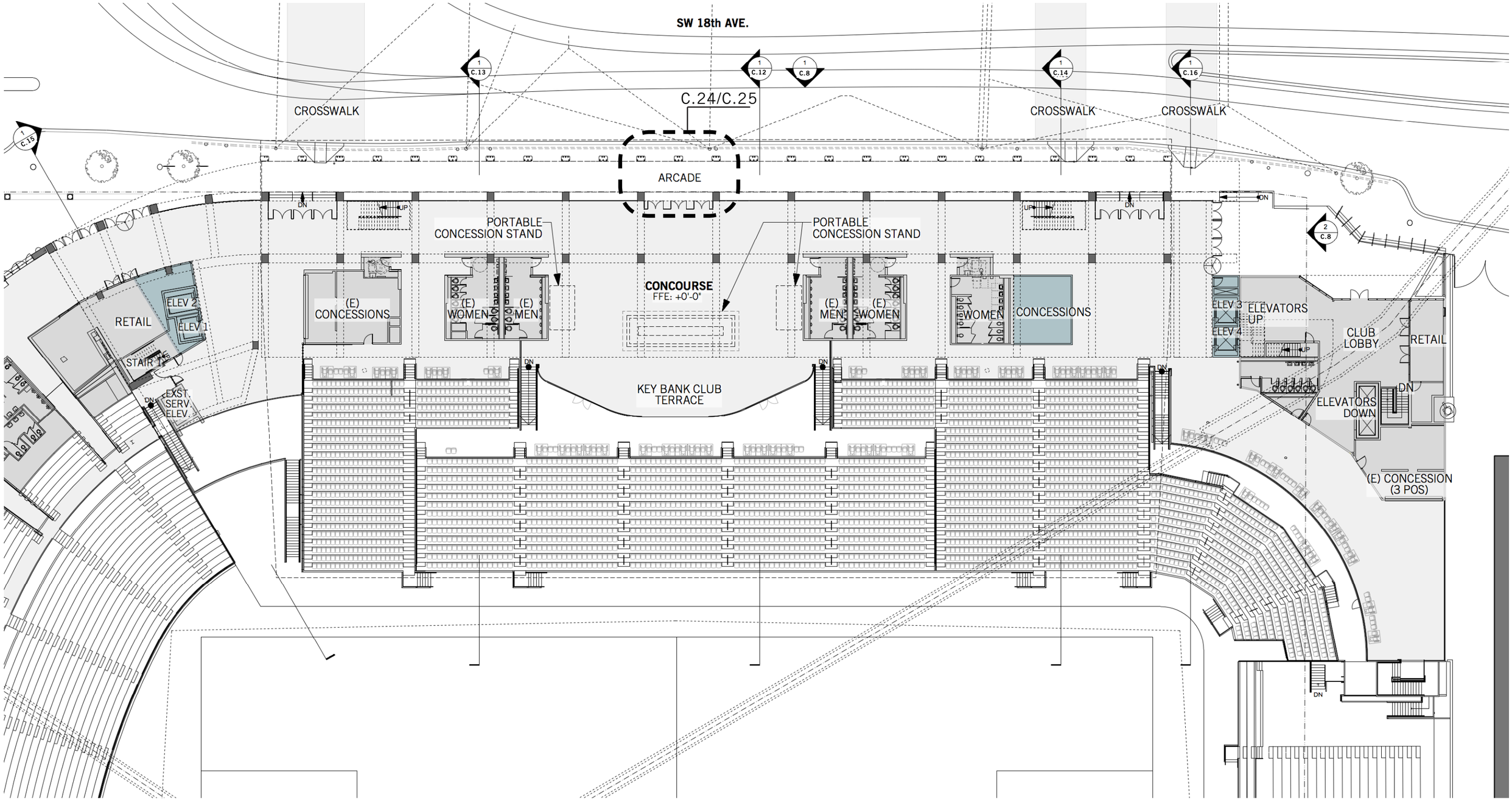
APPENDIX

TABLE OF CONTENTS

ARCHITECTURAL DRAWINGS - “C” EXHIBITS

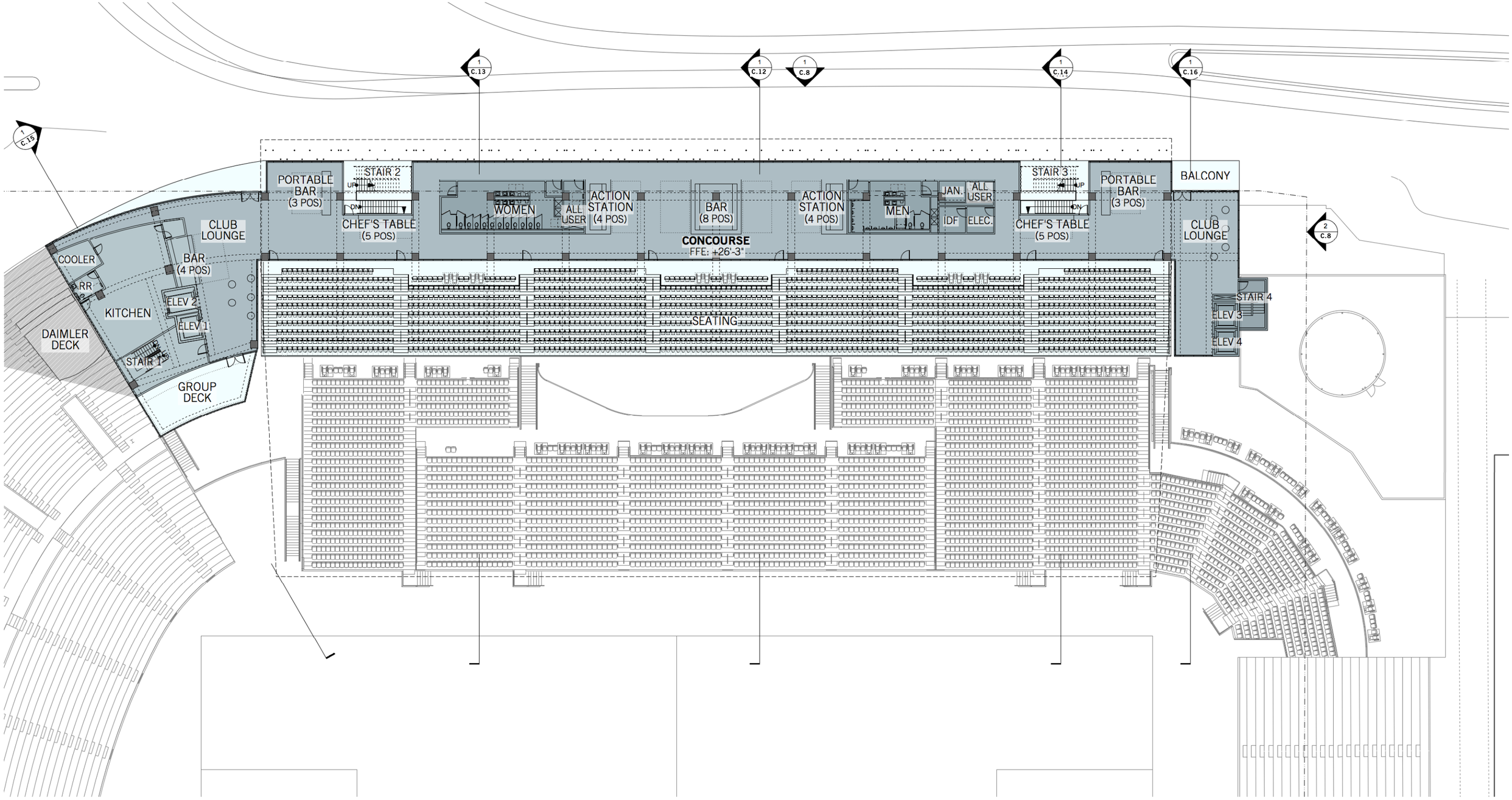


SITE PLAN

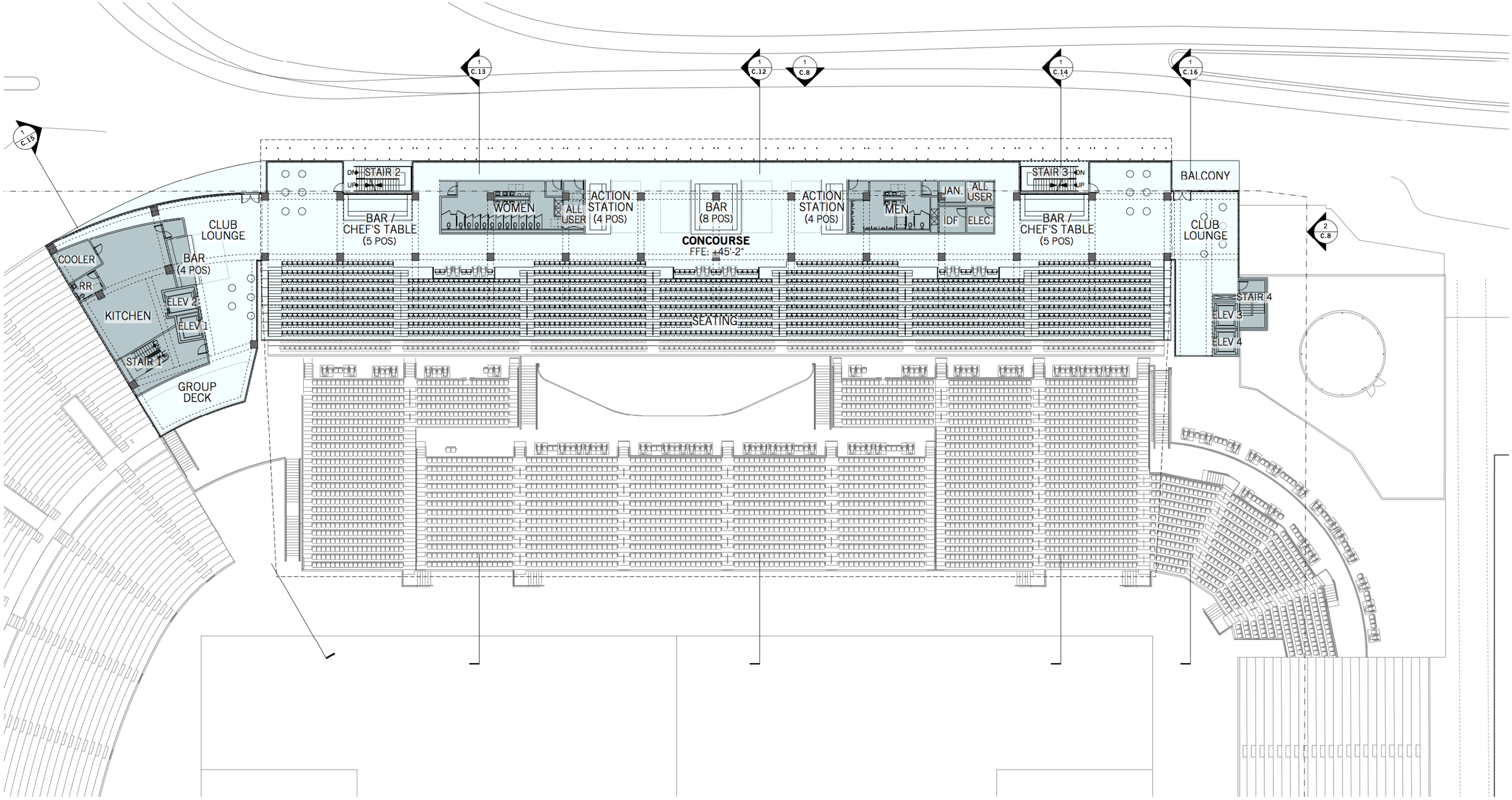


0 5 20 50

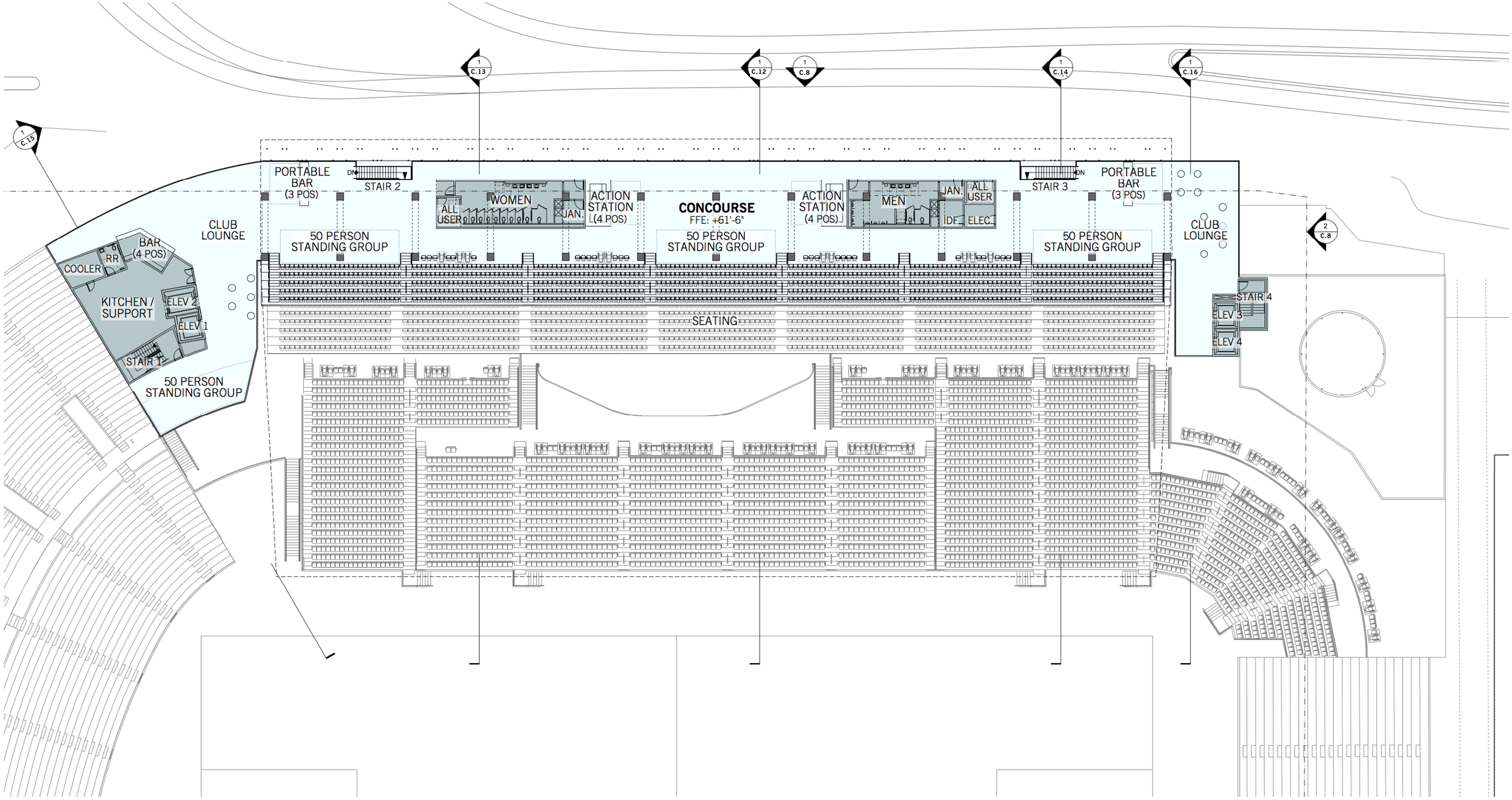
CONCOURSE FLOOR PLAN



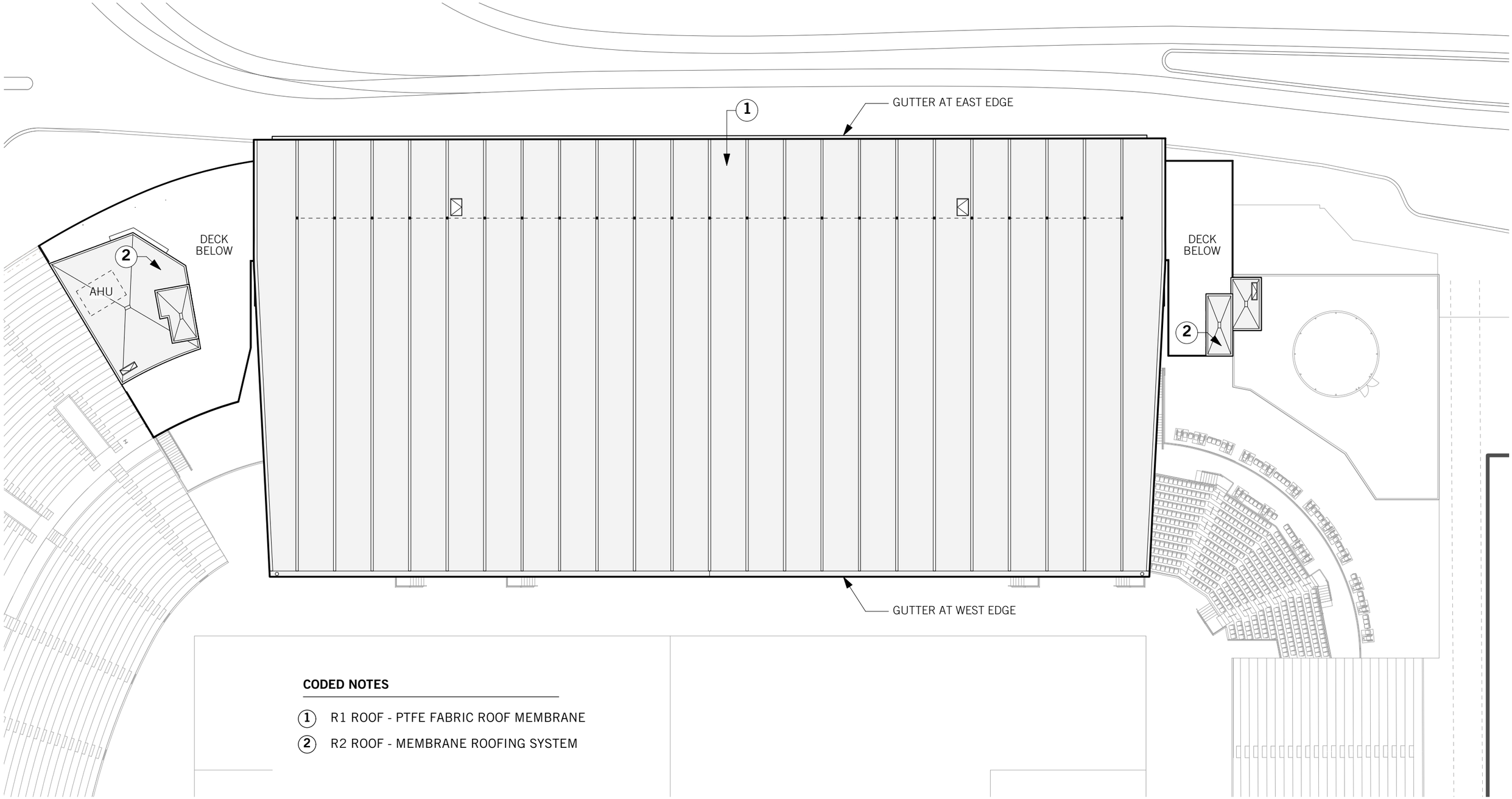
LEVEL 1 FLOOR PLAN



LEVEL 2 FLOOR PLAN



LEVEL 3 FLOOR PLAN

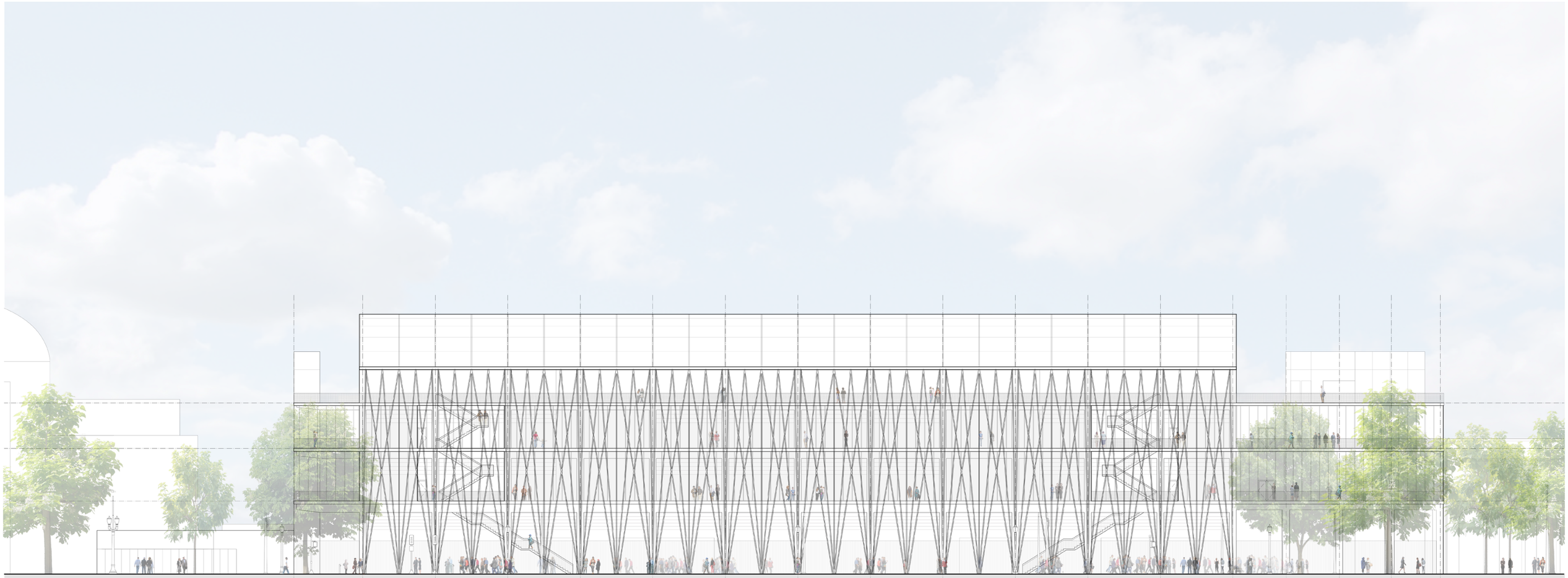


CODED NOTES

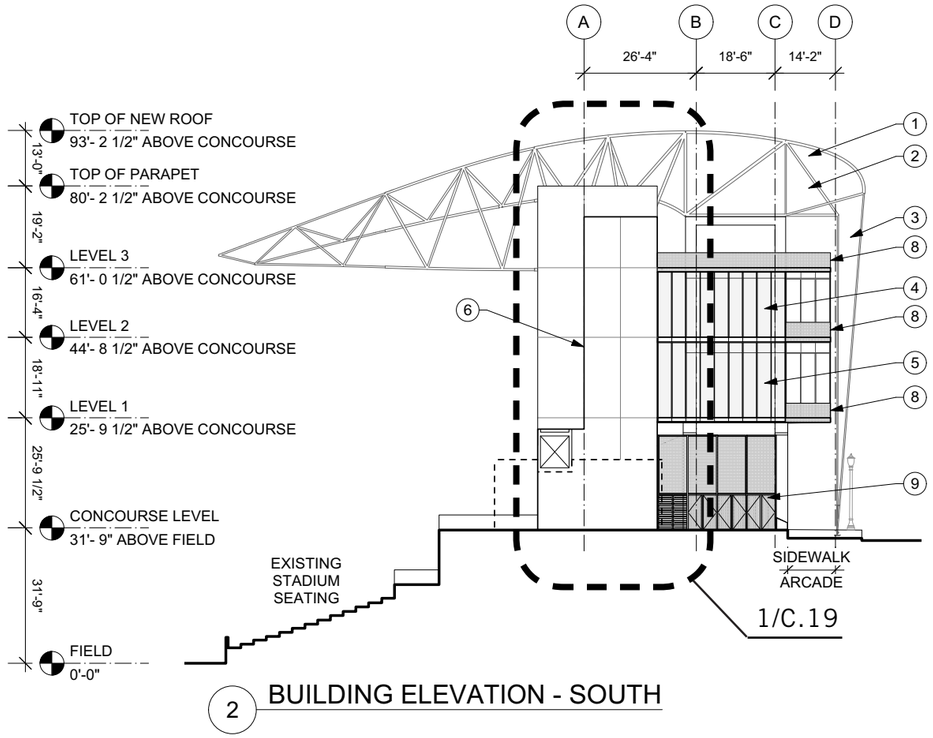
1. R1 ROOF - PTFE FABRIC ROOF MEMBRANE
2. R2 ROOF - MEMBRANE ROOFING SYSTEM

0 5 20 50

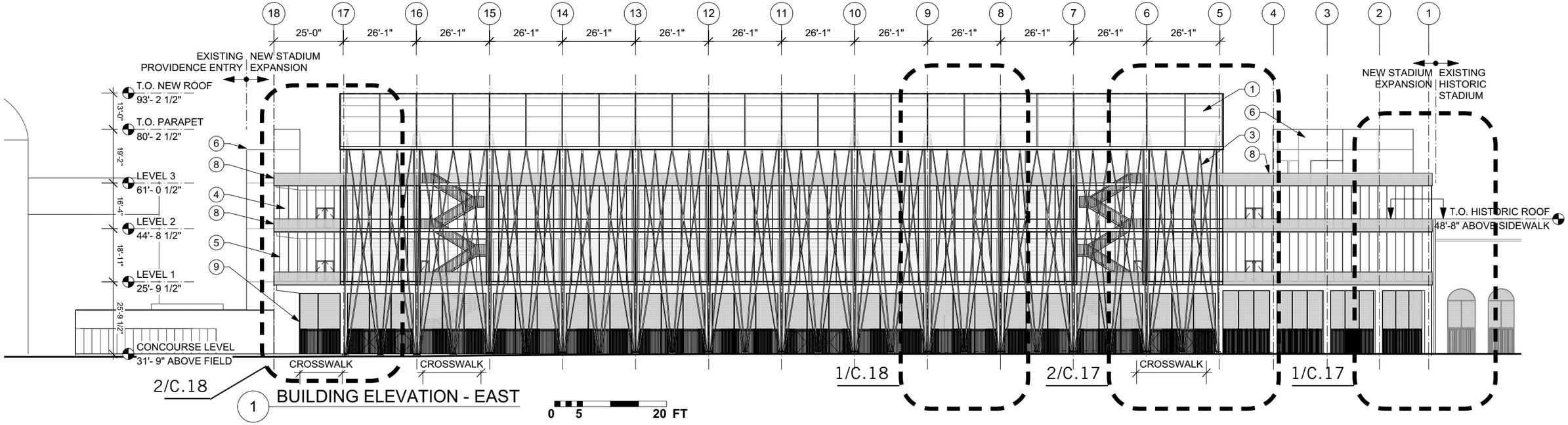
ROOF PLAN



RENDERED SW 18TH AVE ELEVATION



2 BUILDING ELEVATION - SOUTH



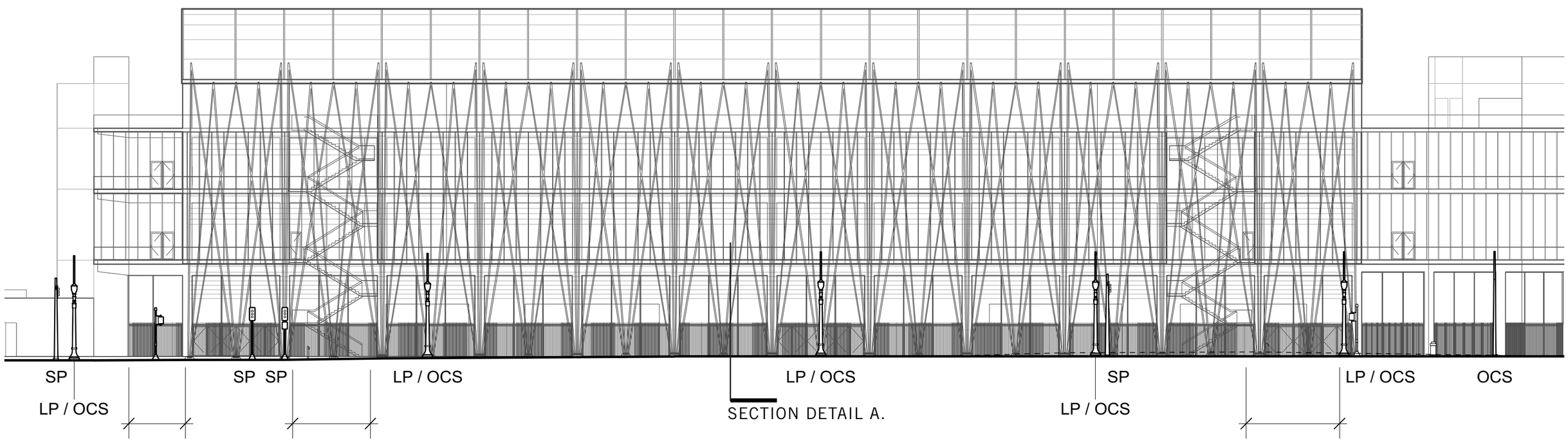
1 BUILDING ELEVATION - EAST

CODED NOTES

1. R1 - PTFE FABRIC MEMBRANE ROOF
2. STEEL TRUSS ROOF STRUCTURE, PTD FINISH
3. TENSILE STEEL ROOF SUPPORT STRUCTURE, PTD FINISH
4. EXTERIOR GLAZING SYSTEM "WIND BREAK"
5. EXTERIOR GLAZING SYSTEM ENCLOSURE FOR CONDITIONED SPACE
6. EXTERIOR CEMENT PLASTER SYSTEM, PTD FINISH
7. STEEL EXTERIOR EXIT STAIR, PTD FINISH
8. STEEL GUARDRAIL, PTD FINISH
9. STEEL PICKET FENCE, PTD FINISH

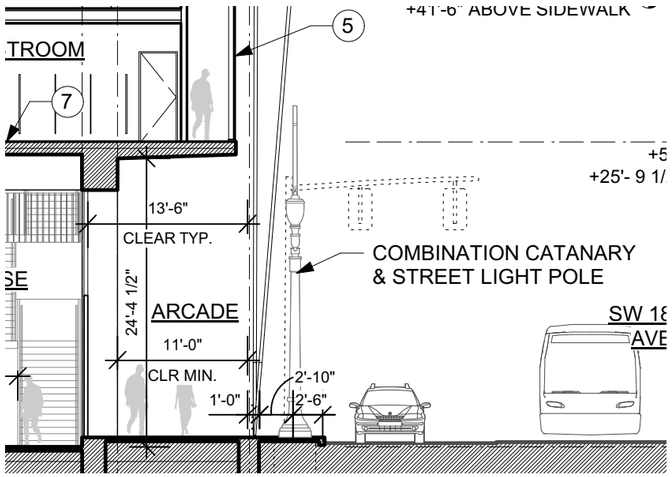
BUILDING ELEVATIONS

PROPOSED APPROACH
COMBINED OCS AND ROTATED TWIN ORNAMENTAL STREET LIGHT



PROS:
- REDUCED QUANTITY OF POLES (COMBINED OCS/STREET LIGHTS)
- COMBINED OCS / SINGLE TWIN ORNAMENTAL STREET LIGHT POLE MATCHES SURROUNDING CONDITIONS
- OCS CABLES ONLY RELOCATED ONCE LIMITING IMPACT TO TRIMET SERVICE

CONS:
- ROTATED COMBINED OCS / TWIN ORNAMENTAL STREET LIGHT POLE IS A MODIFICATION TO THE STANDARD



SECTION DETAIL A.

STREET UTILITIES LEGEND

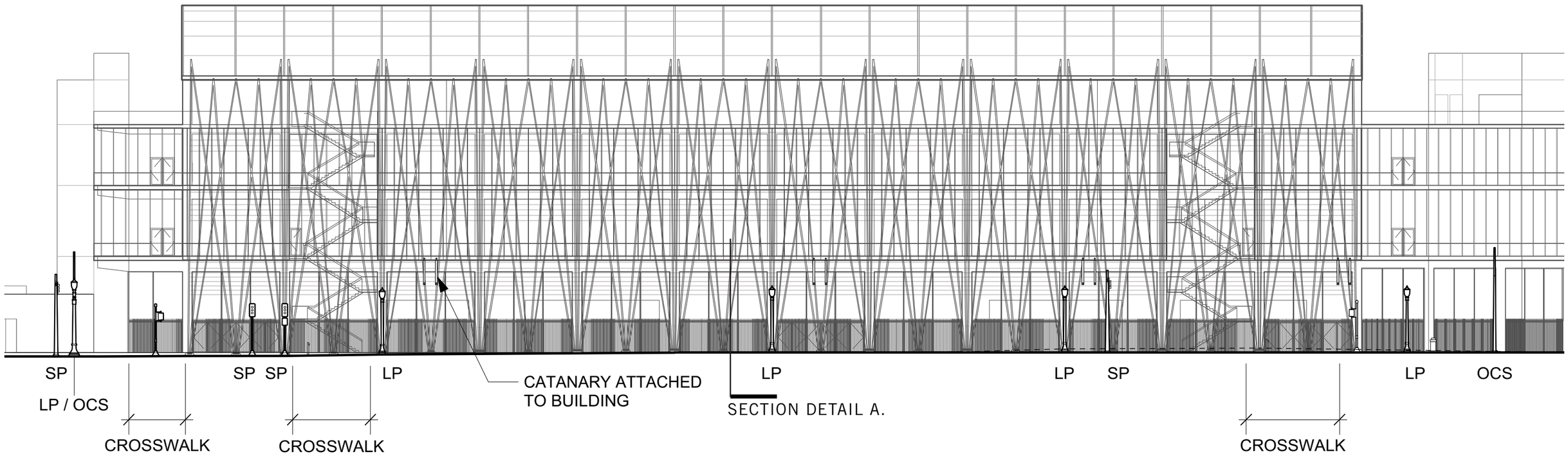
SP	TRAFFIC SIGNAL POLE
LP	STREET LIGHT POLE
OCS	OVERHEAD CONTACT SYSTEM POLE

0 5 20 FT

SW 18TH STREET ELEVATION - STREET FURNISHINGS

ALTERNATE APPROACH

OCS CONNECTED TO BUILDING STRUCTURE & SINGLE ORNAMENTAL STREET LIGHT POLES

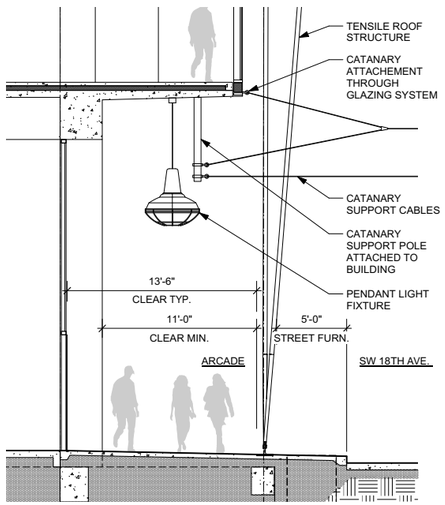


PROS:

- REDUCED QUANTITY OF POLES
- SINGLE ORNAMENTAL LIGHT POLES CAN BE CENTERED ON ARCADE STRUCTURE

CONS:

- SINGLE ORNAMENTAL LIGHT POLES ARE SMALLER IN SIZE AND SHORTER IN HEIGHT THAN THE STANDARD
- OCS CABLES NEED TO BE RELOCATED TWICE IMPACTING TRIMET SERVICE MULTIPLE TIMES
- SUB GRADE OCS POWER FEED WITHIN SW 18TH ROW WILL NEED TO BE REROUTED
- CONNECTION OF OCS CABLES TO BUILDING STRUCTURE IS UNIQUE TO THE NEIGHBORHOOD & SW 18TH AVE
- OCS CABLES CONNECTION REQUIRES MULTIPLE BUILDING CONNECTION POINTS
- WEB OF OCS CABLE STRUCTURE MAY BE VISUALLY CLUTTERED WITH NEW TENSILE ARCADE STRUCTURE



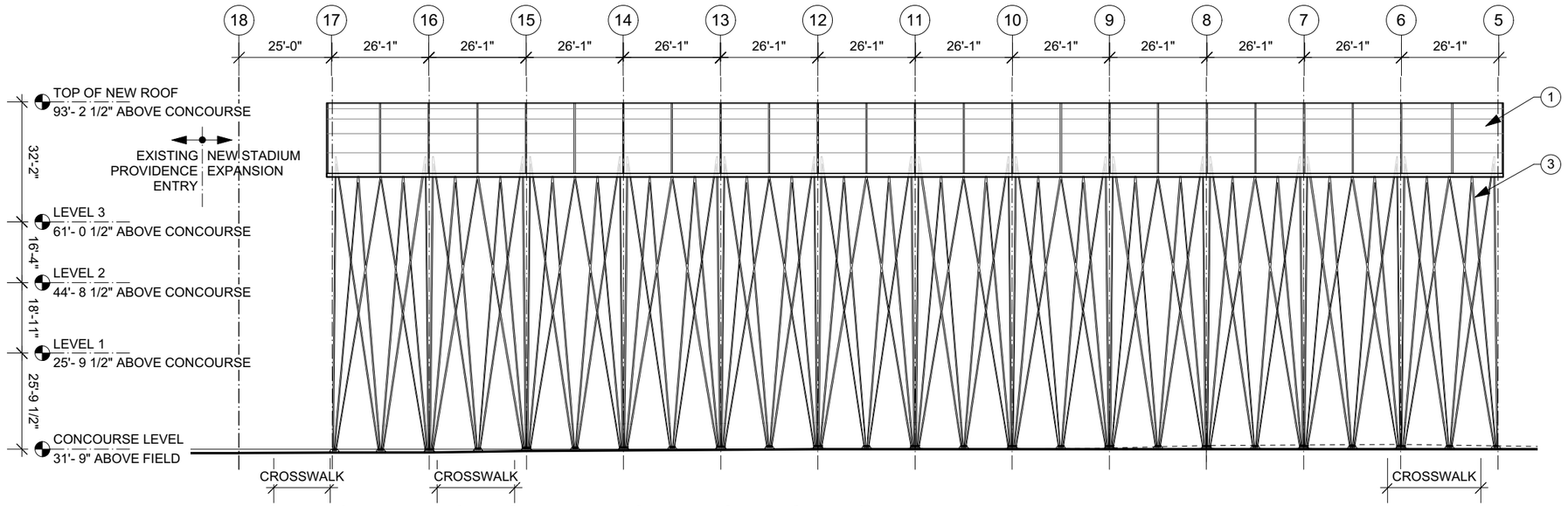
SECTION DETAIL A.

STREET UTILITIES LEGEND

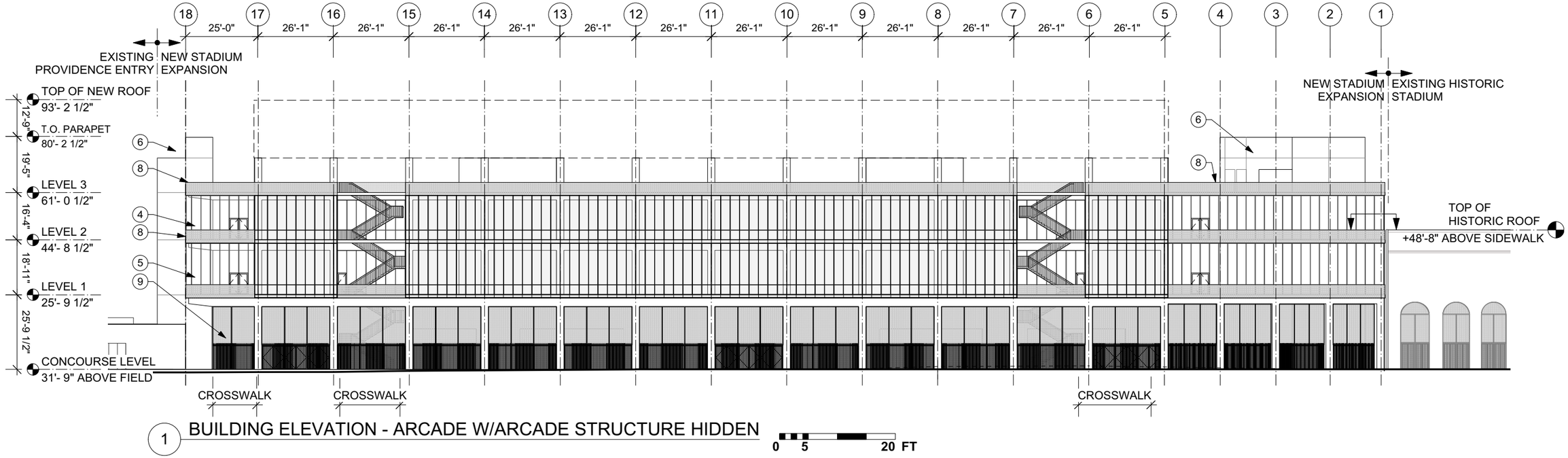
SP	TRAFFIC SIGNAL POLE
LP	STREET LIGHT POLE
OCS	OVERHEAD CONTACT SYSTEM POLE

0 5 20 FT

SW 18TH STREET ELEVATION - STREET FURNISHINGS



2 BUILDING ELEVATION - STEEL TENSILE ARCADE STRUCTURE



1 BUILDING ELEVATION - ARCADE W/ARCADE STRUCTURE HIDDEN

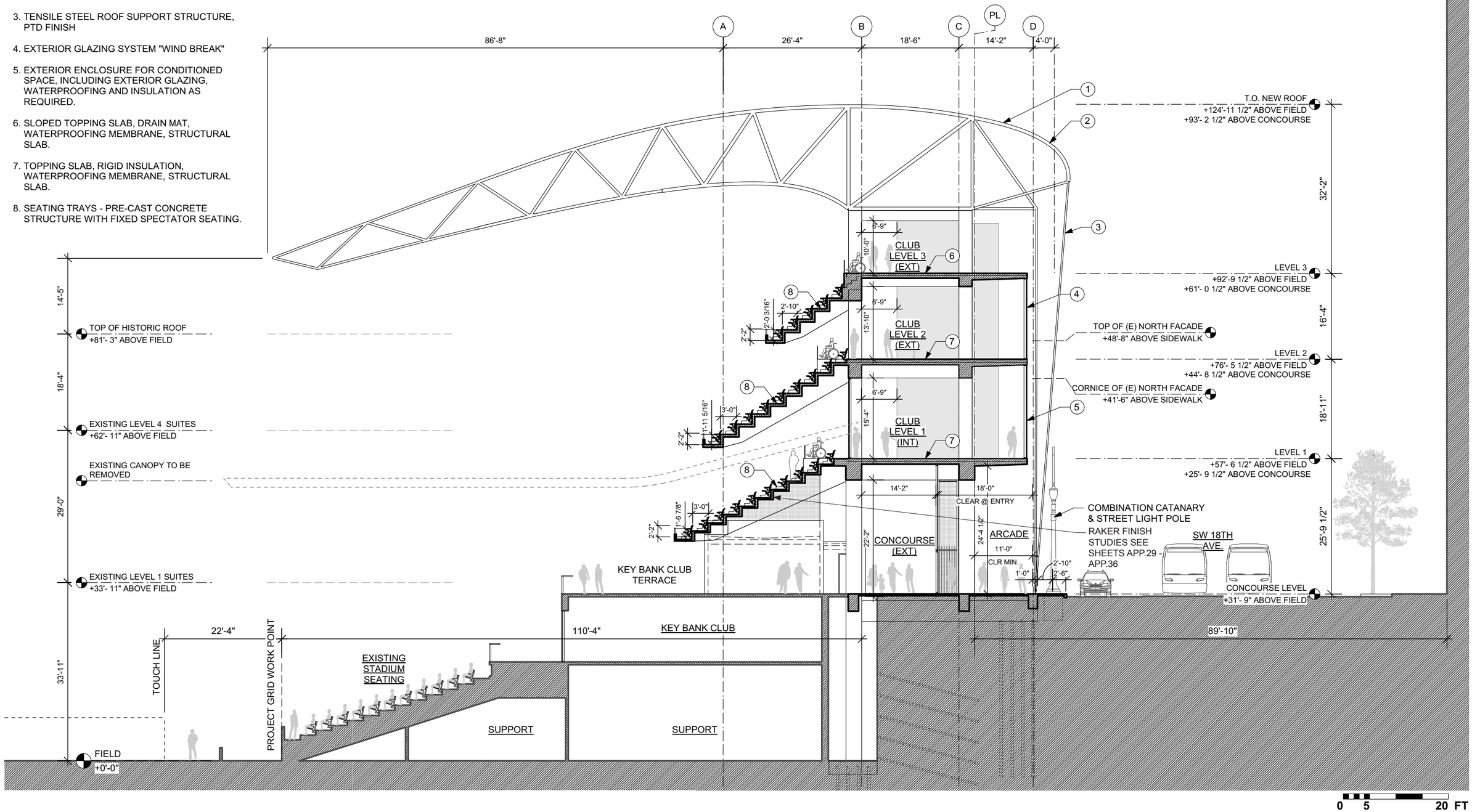
CODED NOTES

1. R1 - PTFE FABRIC MEMBRANE ROOF
2. STEEL TRUSS ROOF STRUCTURE, PTD FINISH
3. TENSILE STEEL ROOF SUPPORT STRUCTURE, PTD FINISH
4. EXTERIOR GLAZING SYSTEM "WIND BREAK"
5. EXTERIOR GLAZING SYSTEM ENCLOSURE FOR CONDITIONED SPACE
6. EXTERIOR CEMENT PLASTER SYSTEM, PTD FINISH
7. STEEL EXTERIOR EXIT STAIR, PTD FINISH
8. STEEL GUARDRAIL, PTD FINISH
9. STEEL PICKET FENCE, PTD FINISH

BUILDING ELEVATIONS

CODED NOTES

1. R1 - PTFE FABRIC MEMBRANE ROOF
2. STEEL TRUSS ROOF STRUCTURE, PTD FINISH
3. TENSILE STEEL ROOF SUPPORT STRUCTURE, PTD FINISH
4. EXTERIOR GLAZING SYSTEM "WIND BREAK"
5. EXTERIOR ENCLOSURE FOR CONDITIONED SPACE, INCLUDING EXTERIOR GLAZING, WATERPROOFING AND INSULATION AS REQUIRED.
6. SLOPED TOPPING SLAB, DRAIN MAT, WATERPROOFING MEMBRANE, STRUCTURAL SLAB.
7. TOPPING SLAB, RIGID INSULATION, WATERPROOFING MEMBRANE, STRUCTURAL SLAB.
8. SEATING TRAYS - PRE-CAST CONCRETE STRUCTURE WITH FIXED SPECTATOR SEATING.



BUILDING SECTION

CODED NOTES

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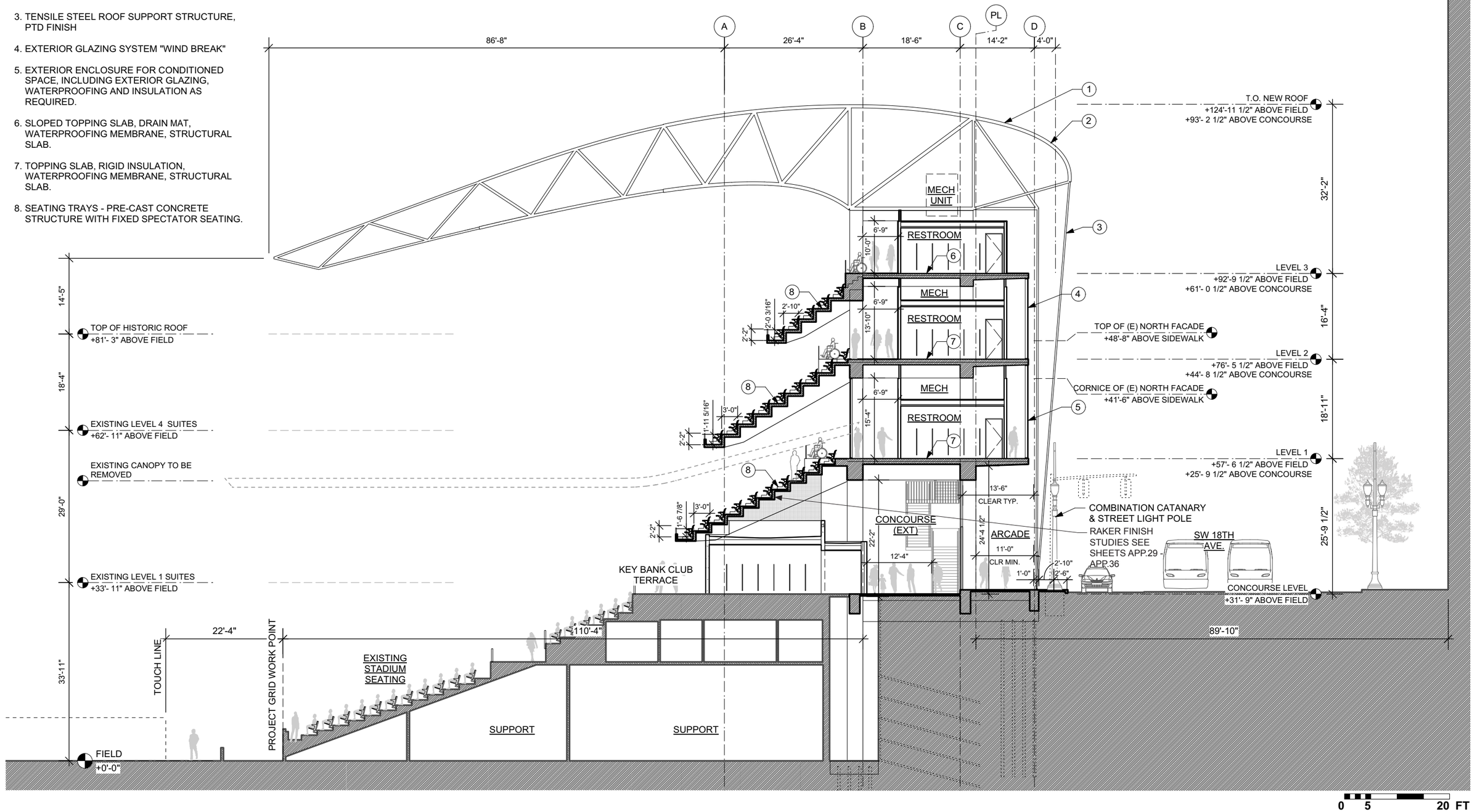

BUILDING SECTION

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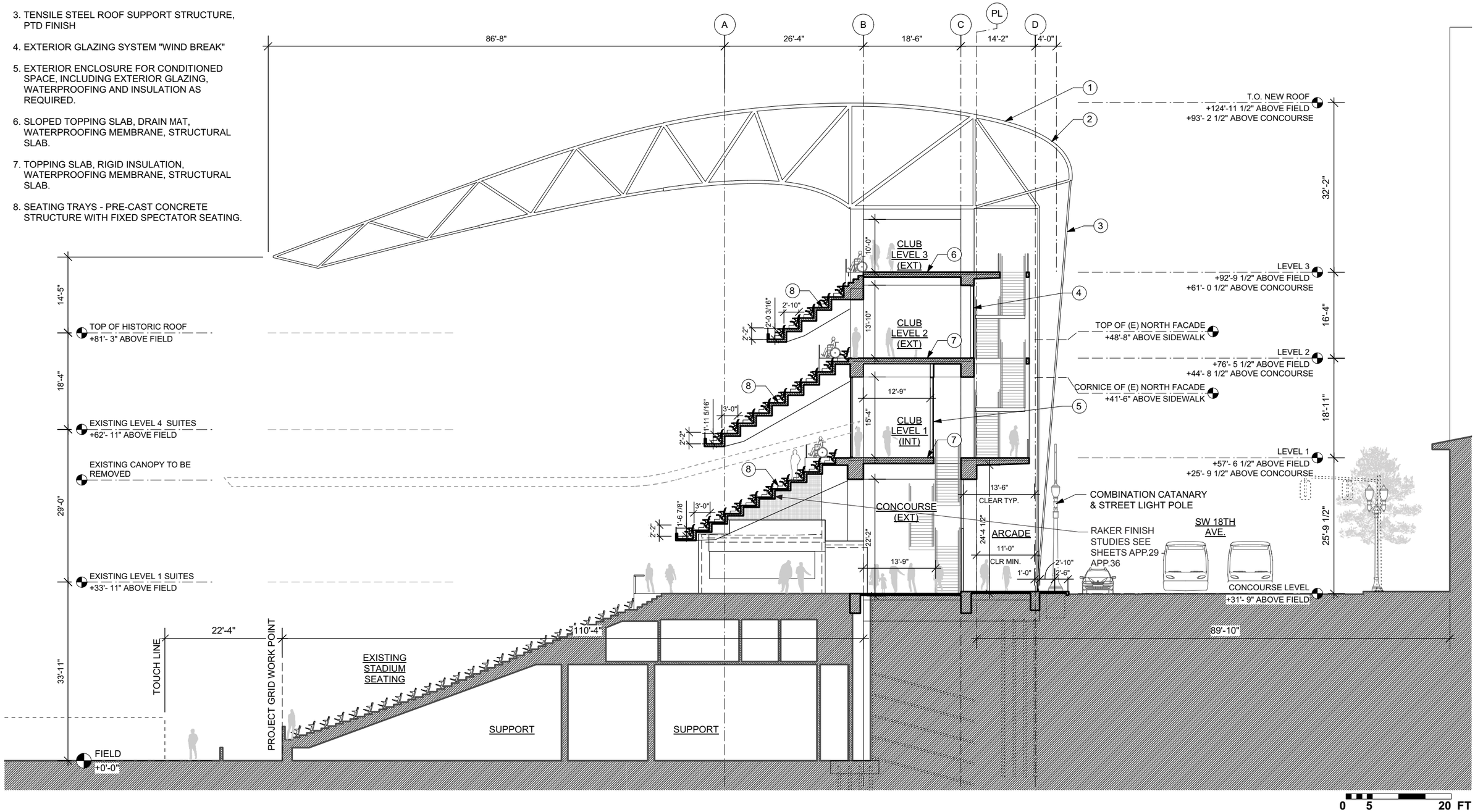
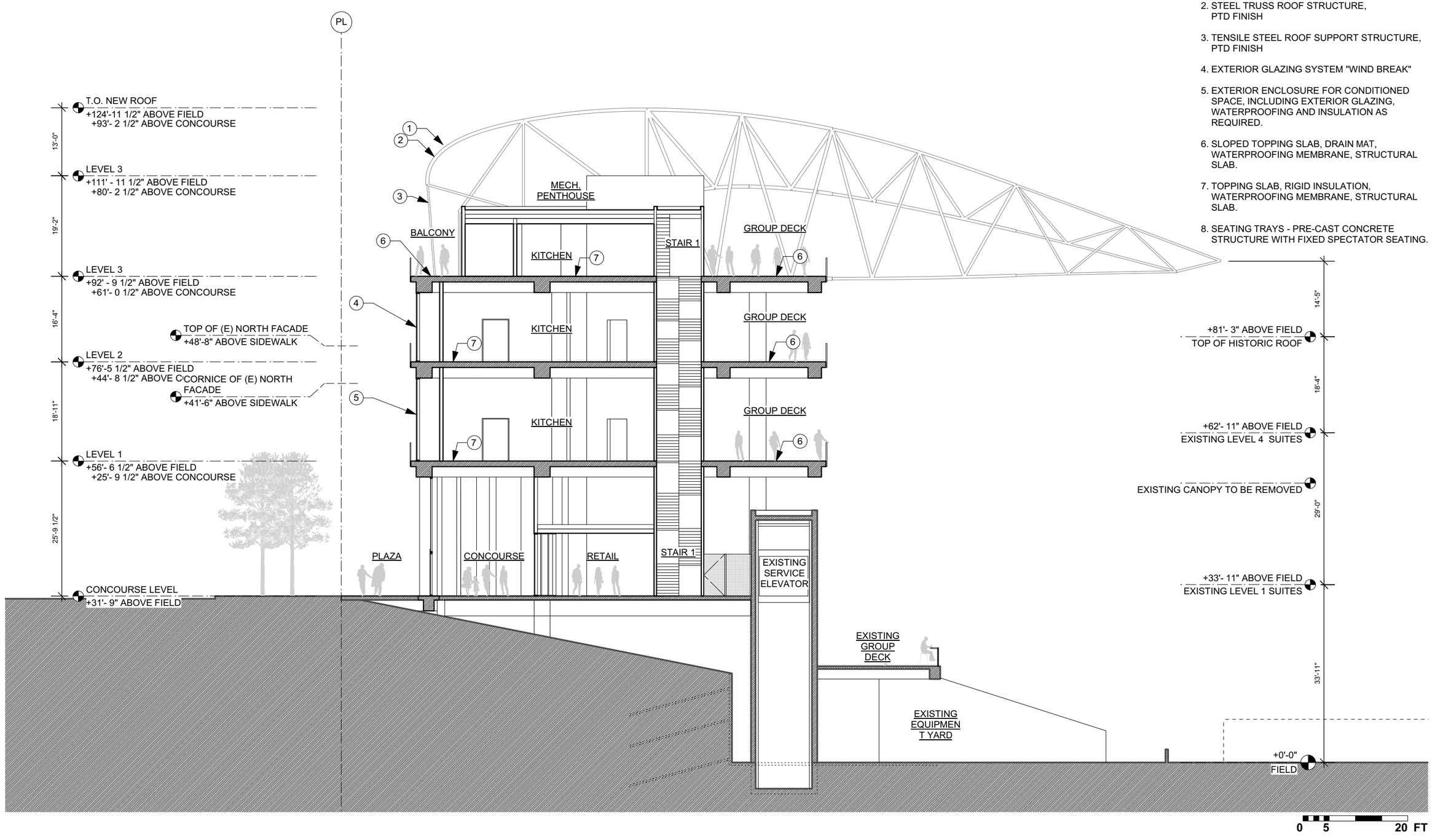


BUILDING SECTION



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BUILDING SECTION

CODED NOTES

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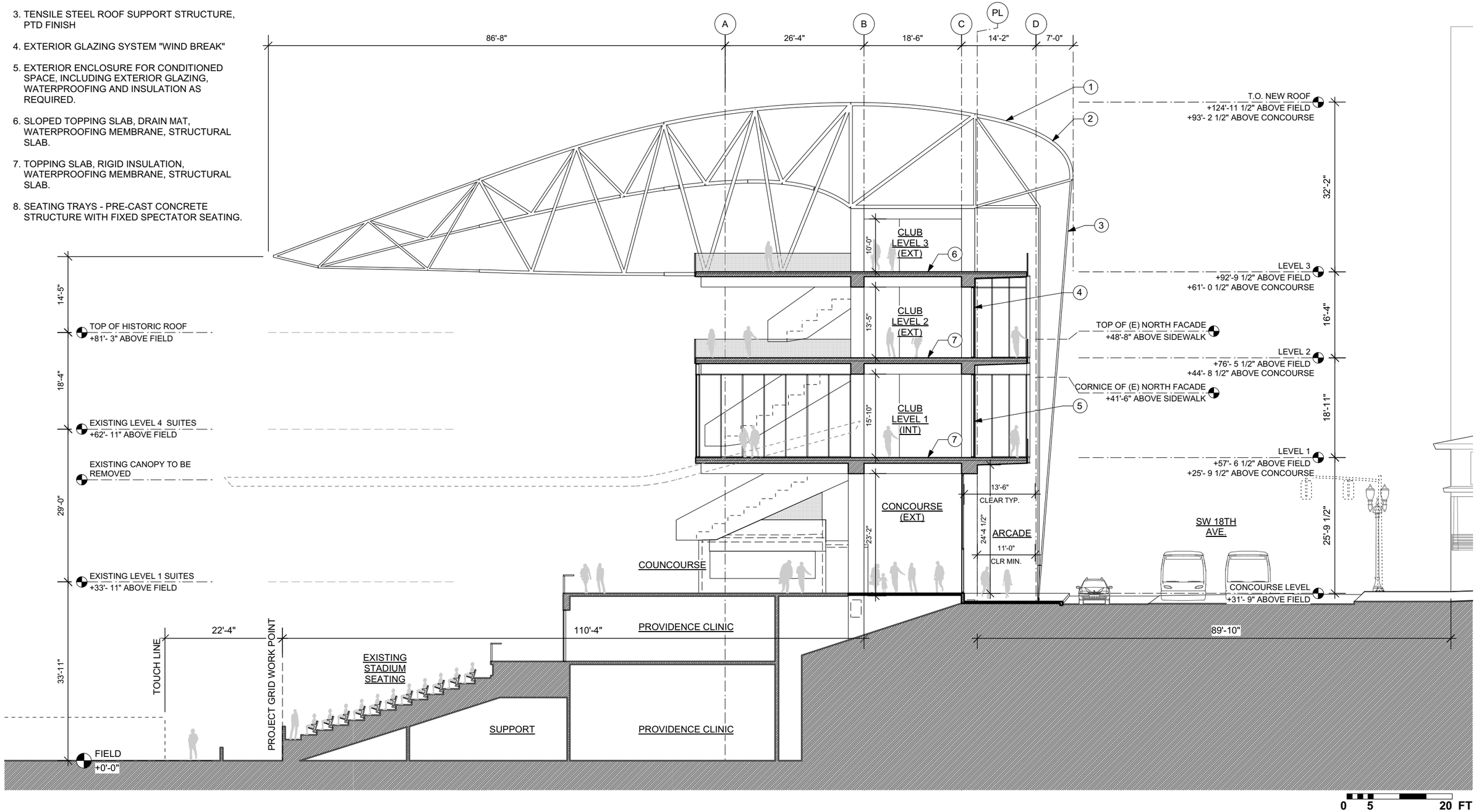
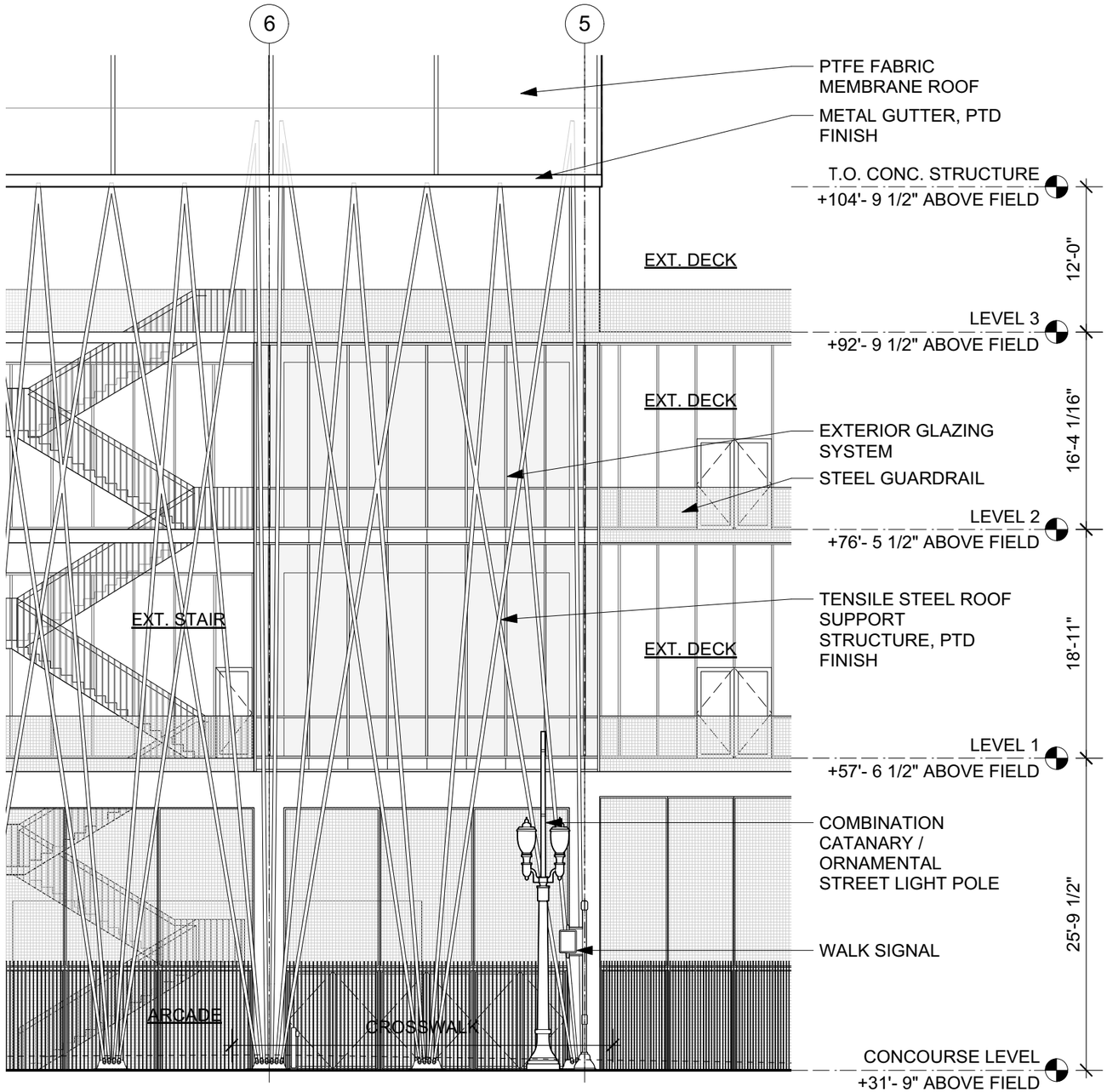
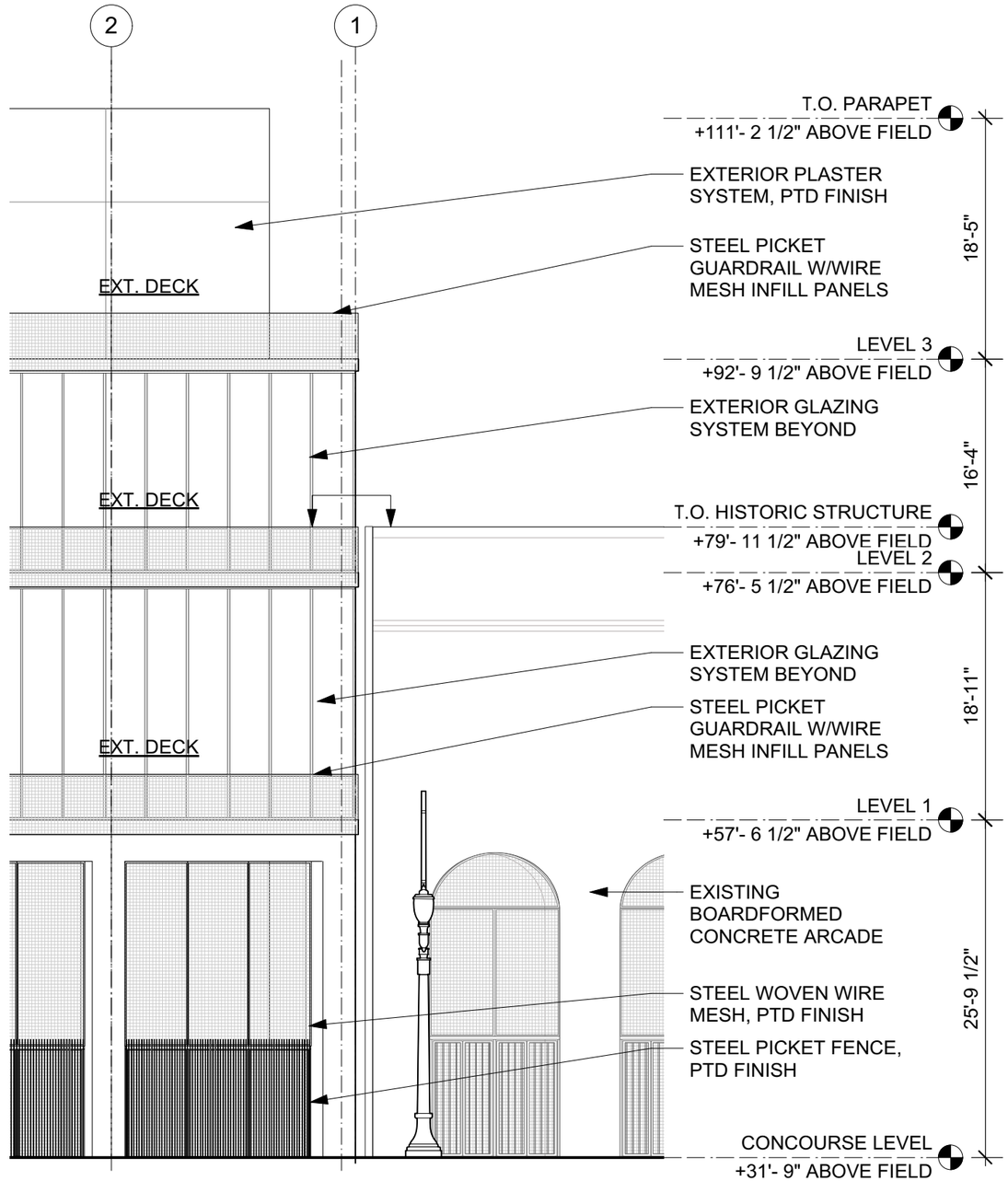


BUILDING SECTION



2 PARTIAL BUILDING ELEVATION - LOOKING WEST

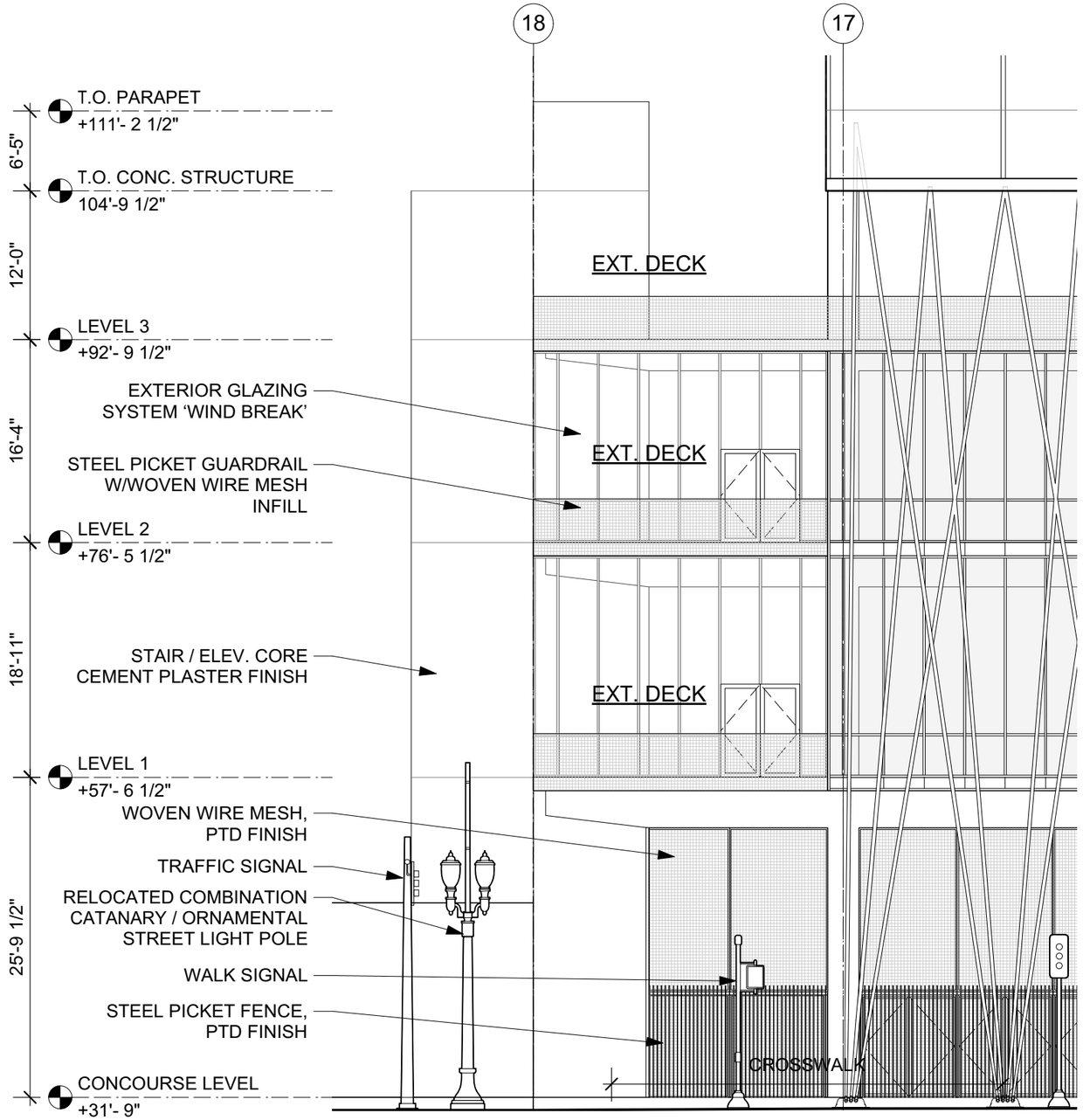


1 PARTIAL BUILDING ELEVATION - LOOKING WEST

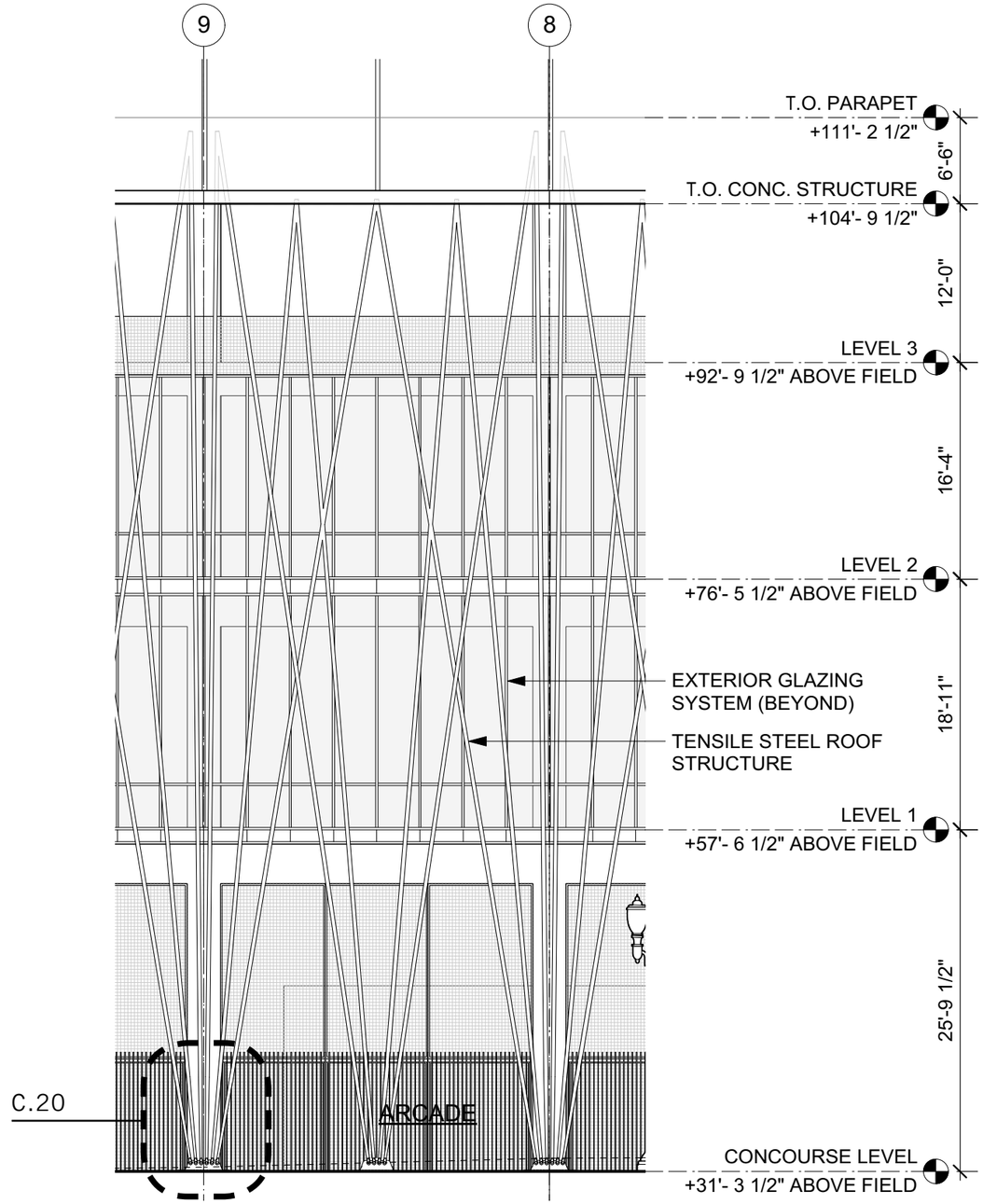
SCALE: 3/32"=1'-0"

0 5 10

ENLARGED ELEVATIONS - EAST



2 PARTIAL BUILDING ELEVATION: SOUTH DECK

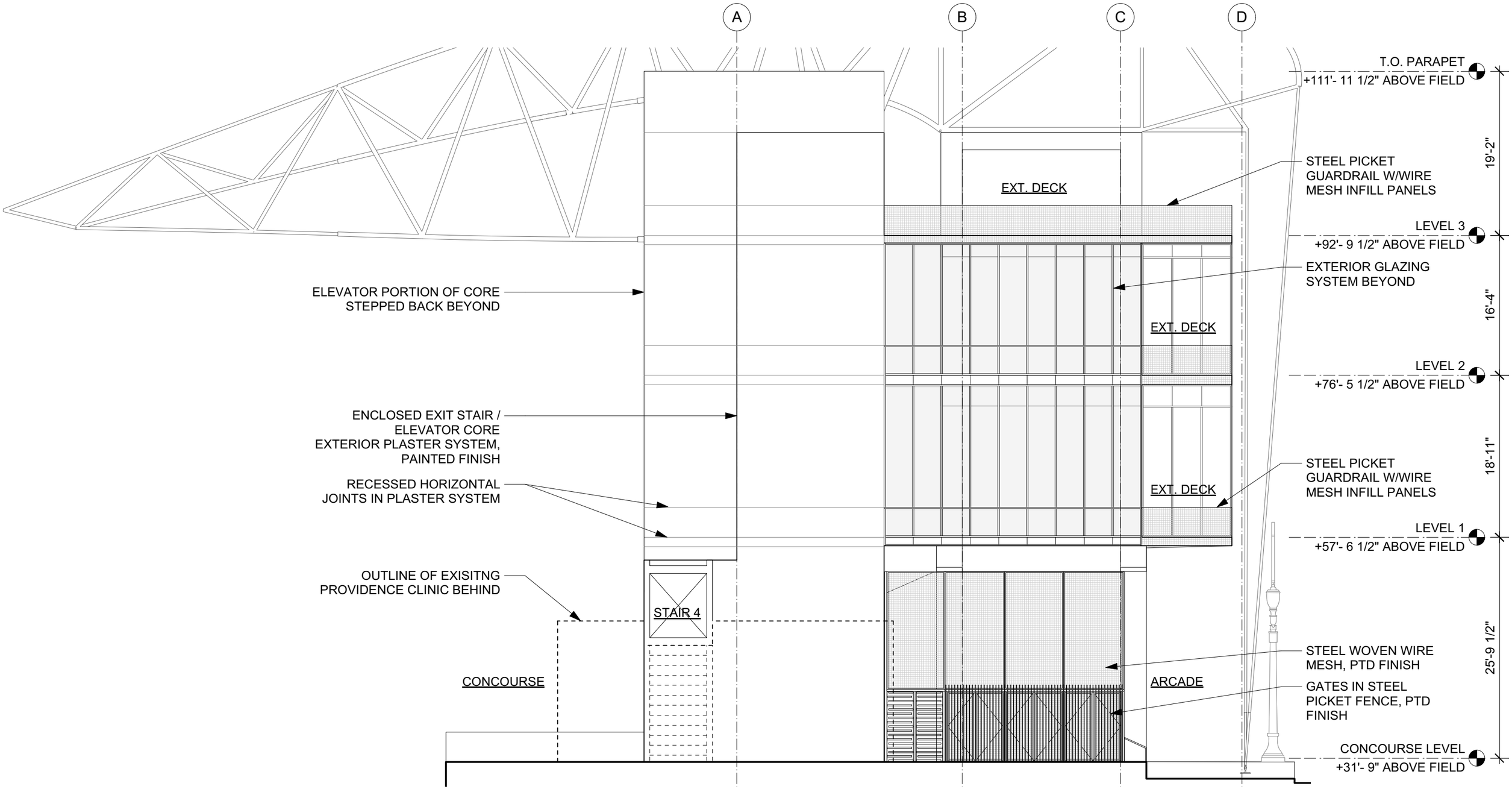


1 PARTIAL BULDING ELEVATION: TYPICAL BAY

SCALE: 3/32"=1'-0"

0 5 10

ENLARGED ELEVATIONS - EAST

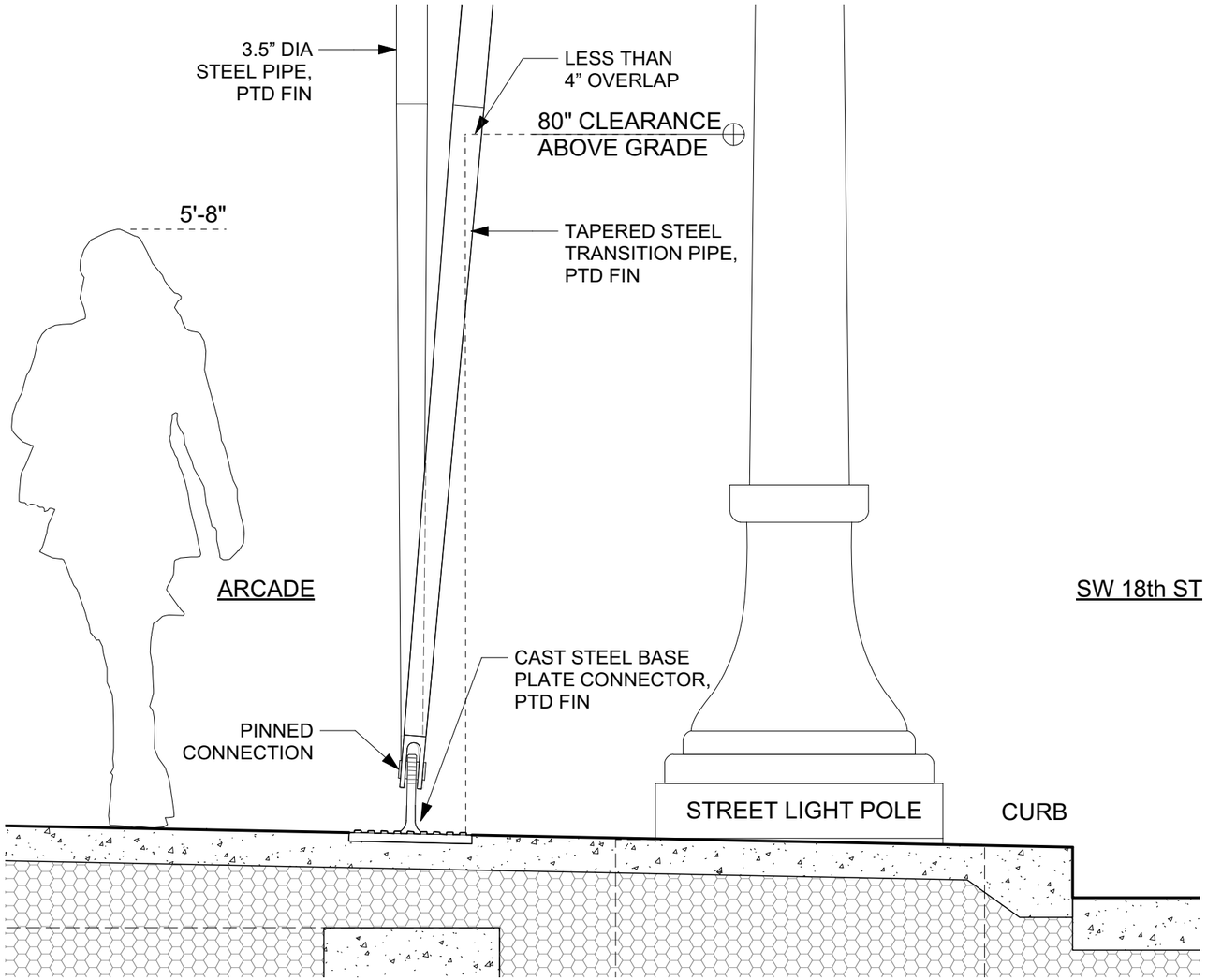


1 PARTIAL BUILDING ELEVATION - LOOKING NORTH

SCALE: 3/32"=1'-0"

0 5 10

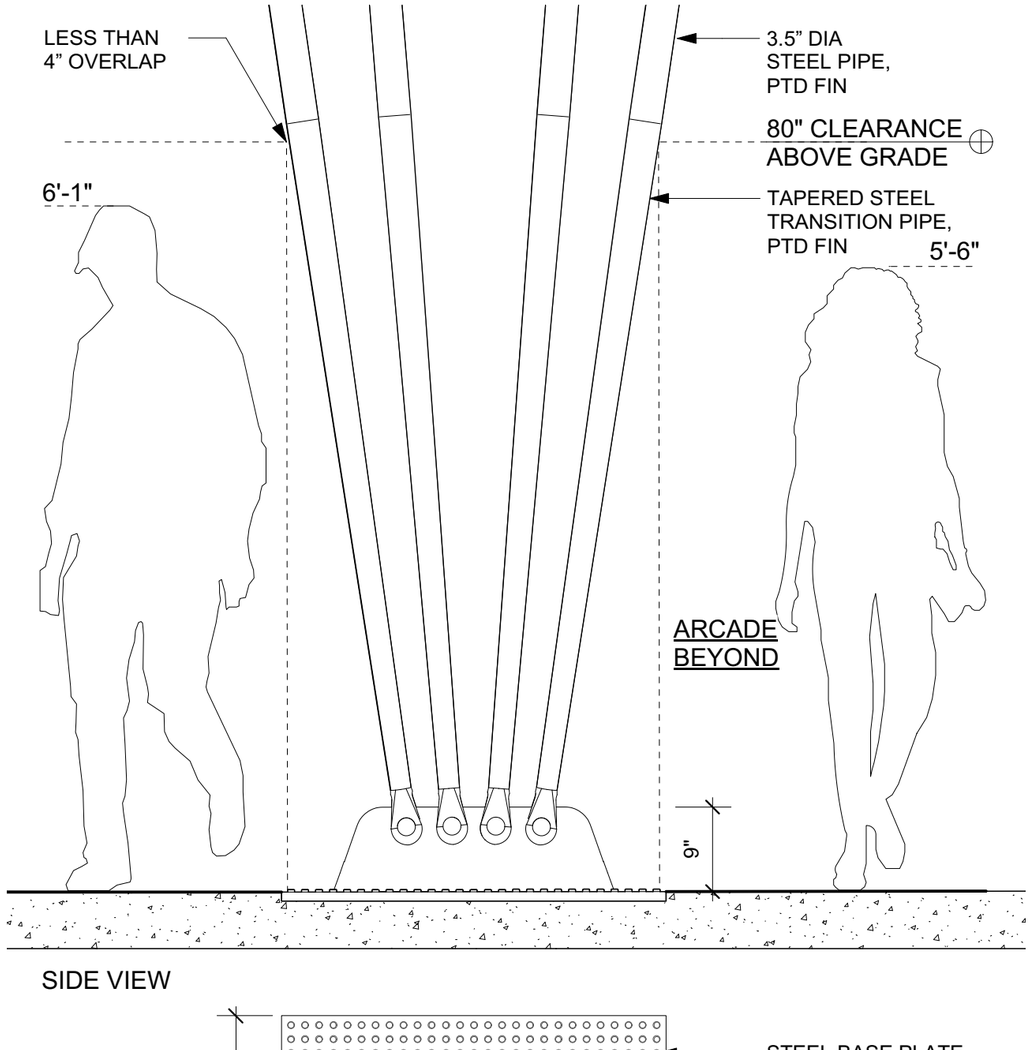
ENLARGED ELEVATION - SOUTH



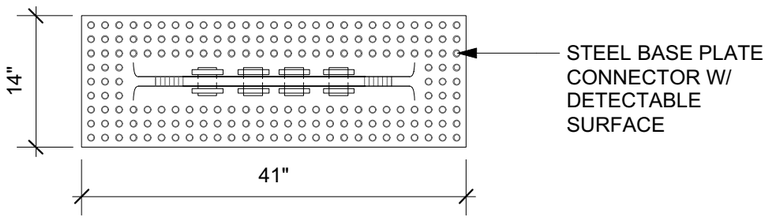
END VIEW (LOOKING NORTH)

1 SECTION / ELEVATION DETAIL - FACADE BASE CONNECTION

SW 18th ST



SIDE VIEW

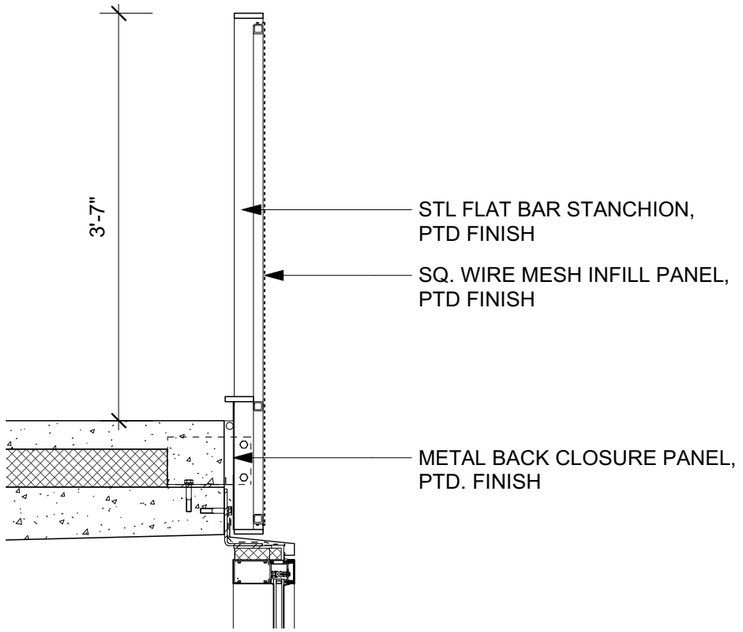


PLAN VIEW

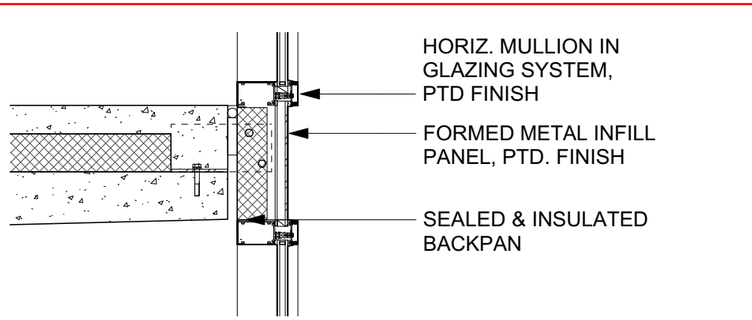
2 SECTION / ELEVATION DETAIL - FACADE BASE CONNECTION

SCALE: 3/4"=1'-0" 0 1 2

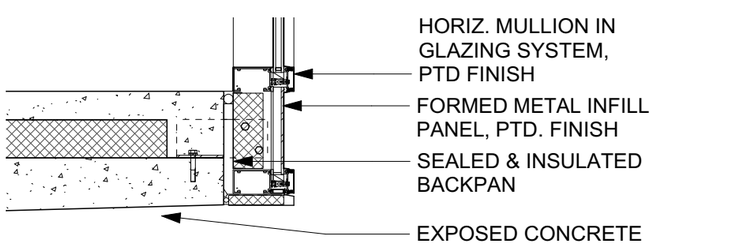
BUILDING DETAILS



LEVEL 3 RAILING DETAIL



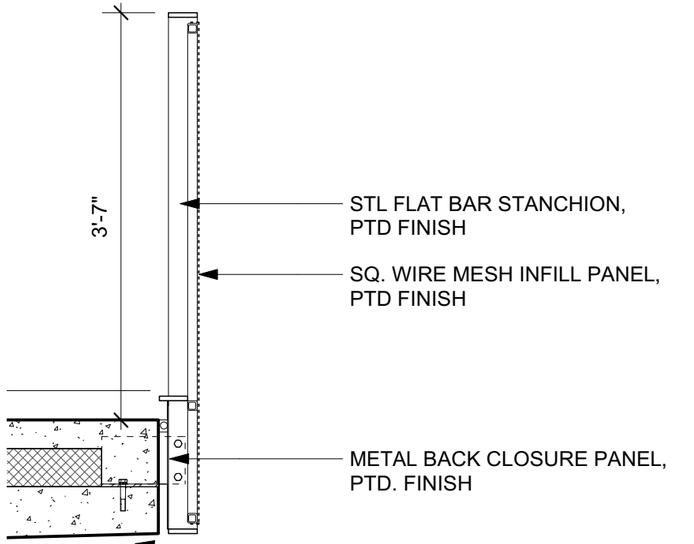
LEVEL 2 GLAZING DETAIL



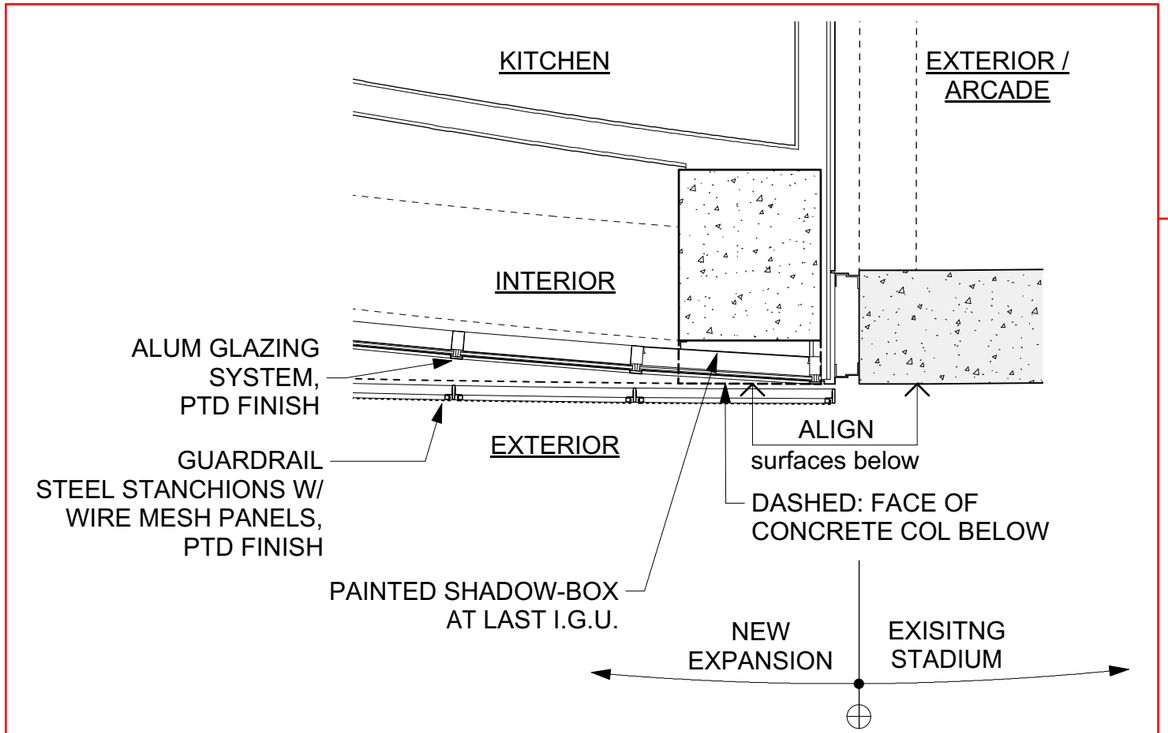
LEVEL 1 GLAZING DETAIL

SCALE: 3/4"=1'-0" 0 1 2

BUILDING DETAILS



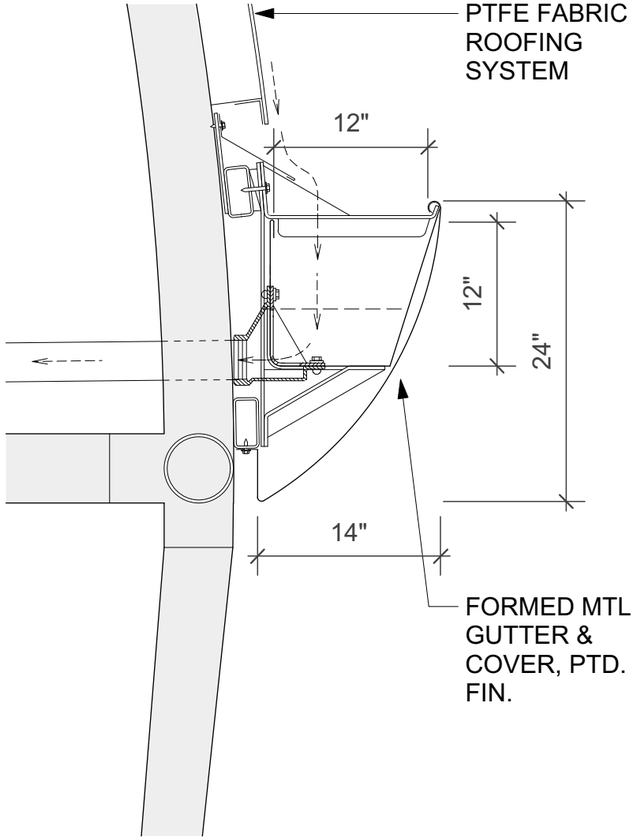
RAILING DETAIL



DETAIL @ CONNECTION TO HISTORIC BUILDING

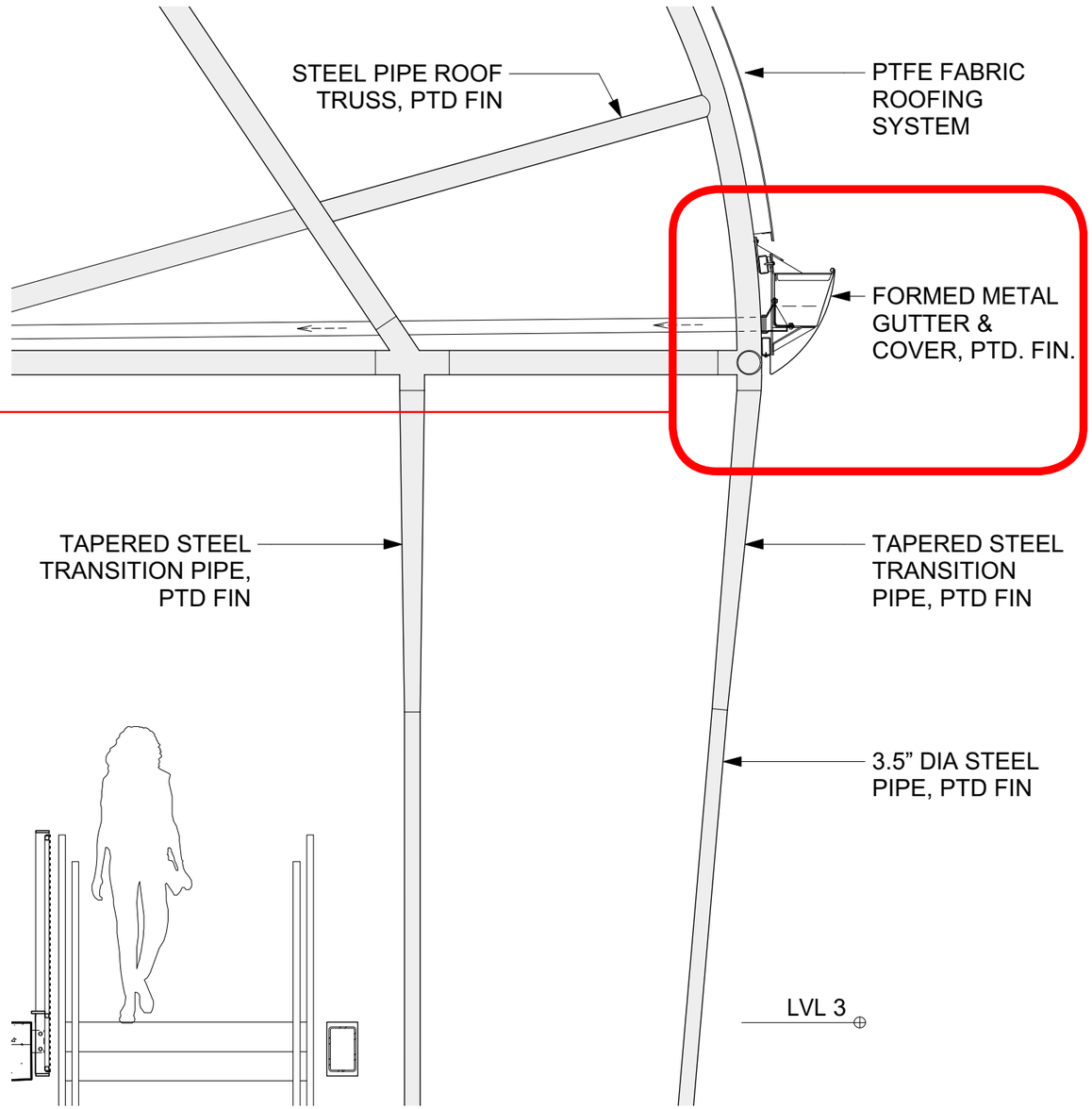
SCALE: 3/4"=1'-0" 0 1 2

BUILDING DETAILS



2 SECTION DETAIL - GUTTER

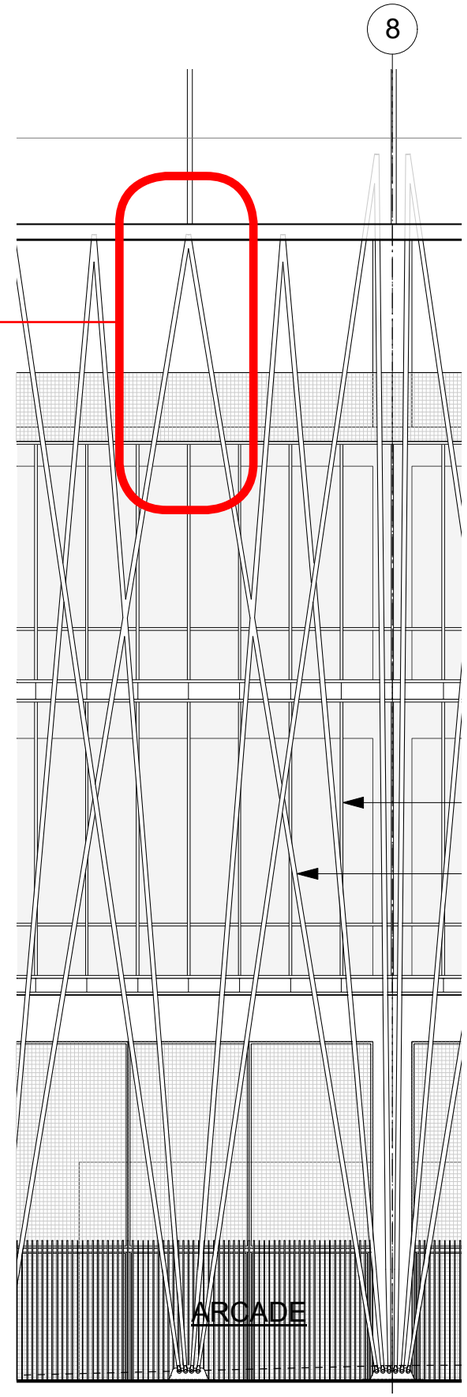
SCALE: 1"=1'-0" 0 1/2 1



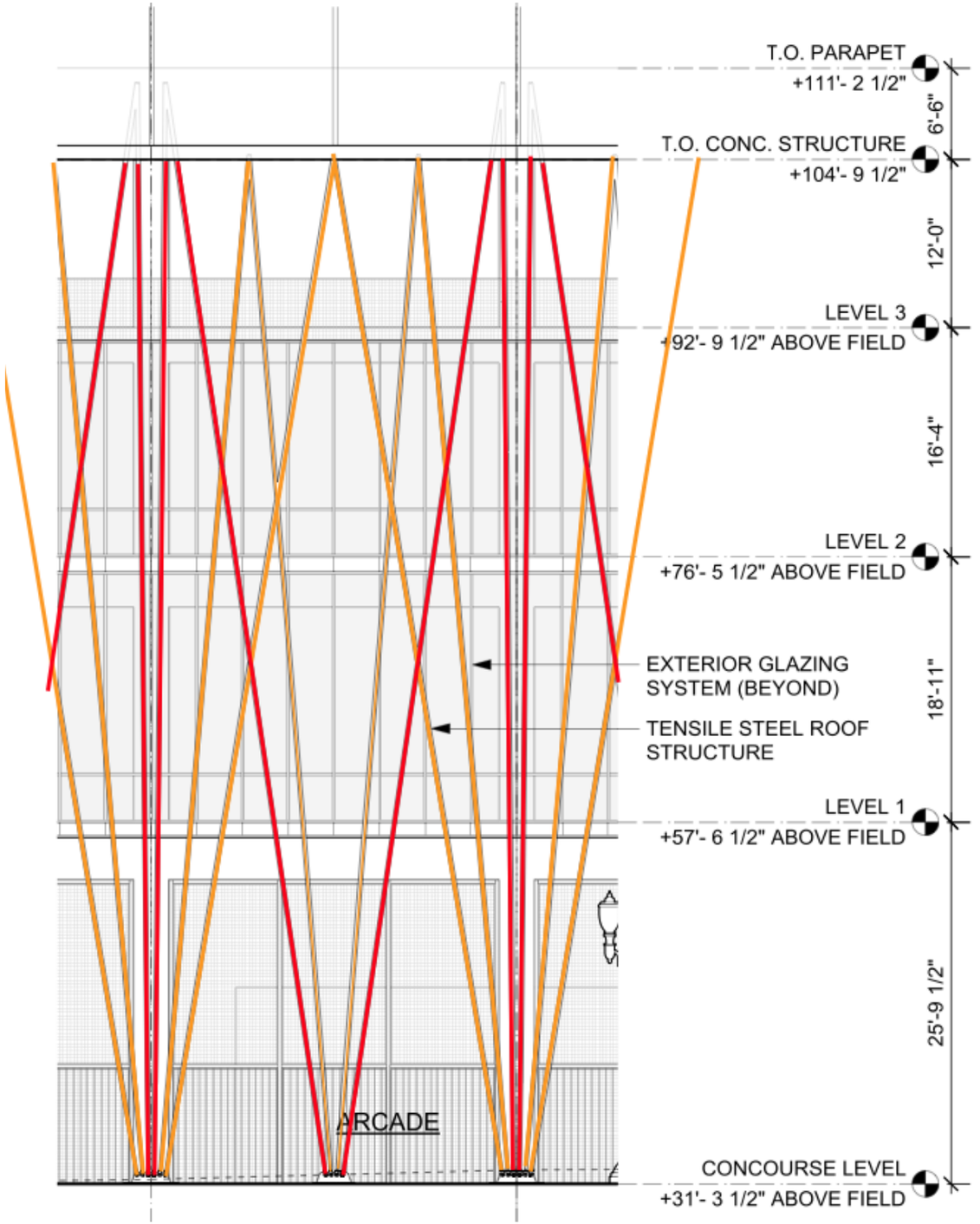
VIEW LOOKING NORTH

1 SECTION / ELEVATION DETAIL - FACADE / ROOF TRUSS CONNECTION

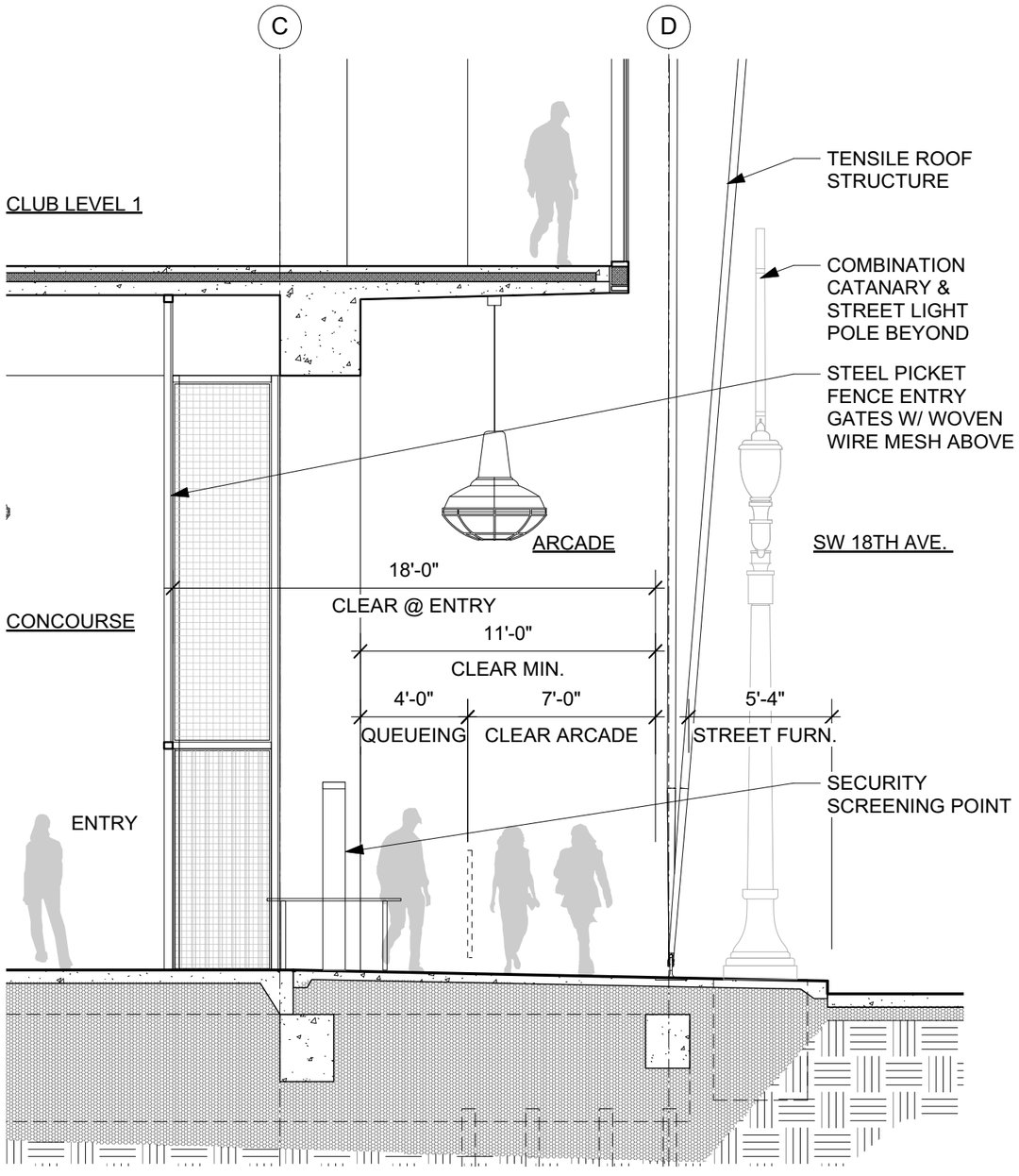
SCALE: 3/8"=1'-0" 0 1 2



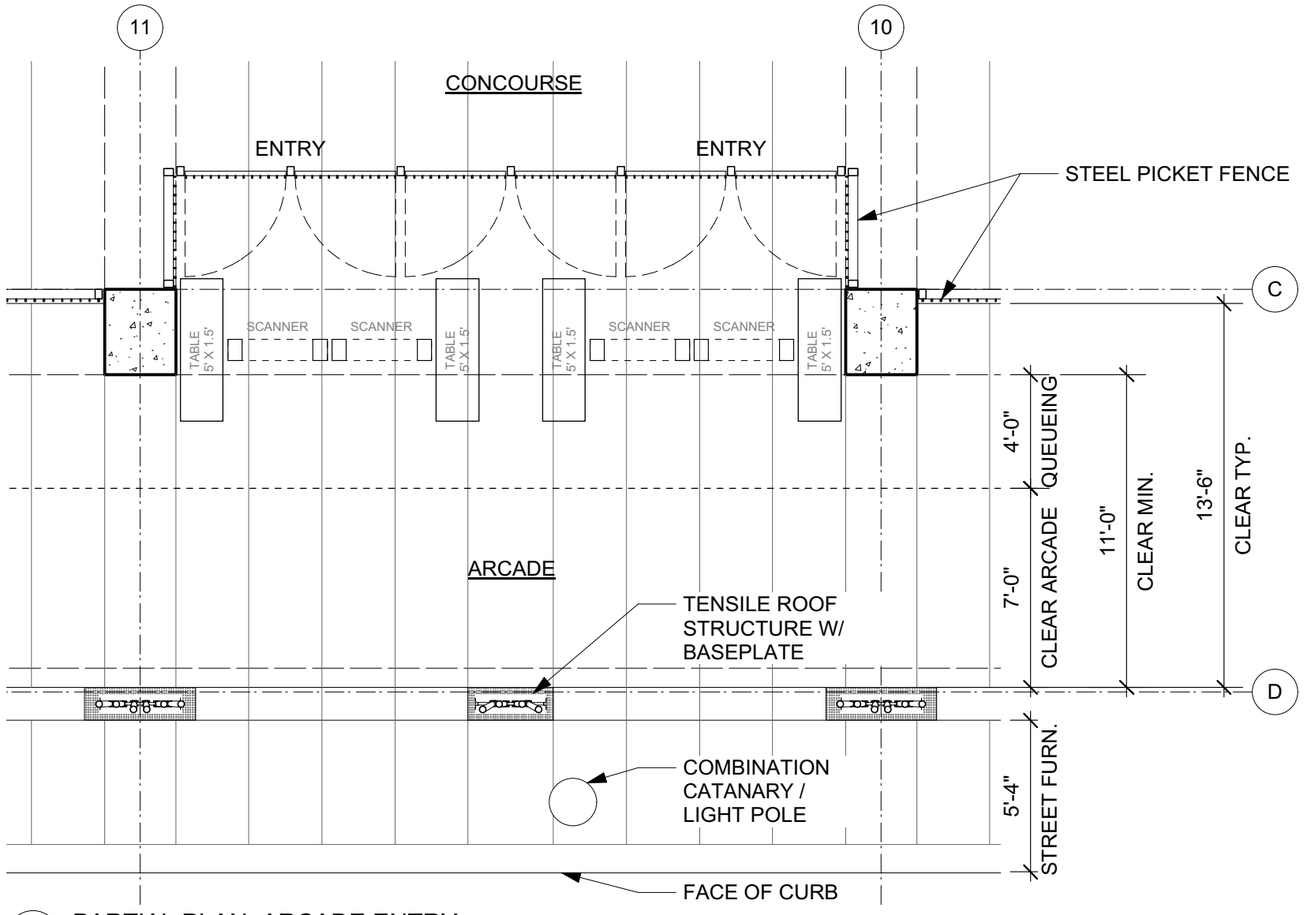
BUILDING DETAILS



BUILDING DETAILS - FACADE GEOMETRY



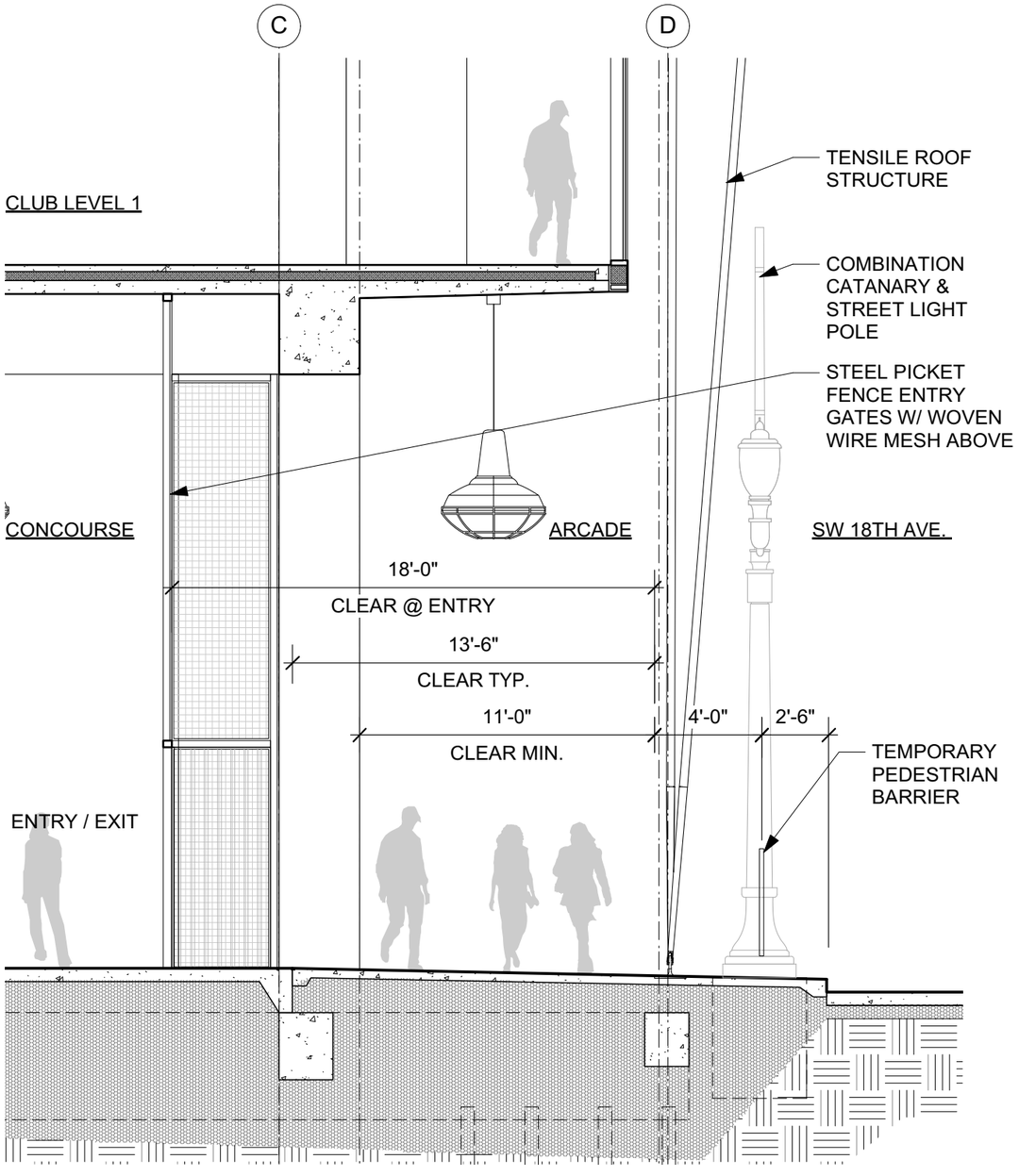
2 ENLARGED SECTION: ARCADE ENTRY



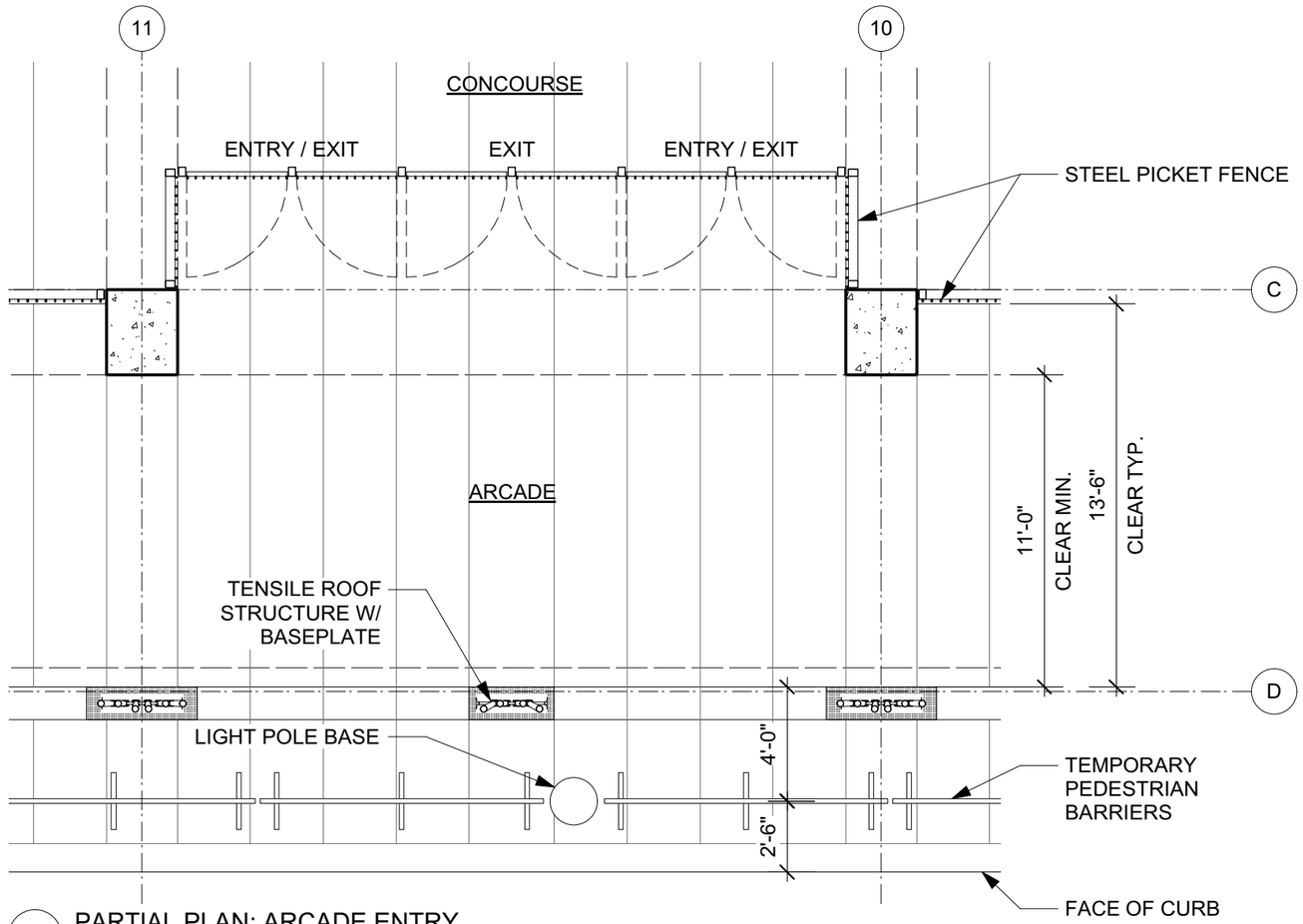
1 PARTIAL PLAN: ARCADE ENTRY

SCALE: 3/16"=1'-0" 0 1 5

ENLARGED ARCADE - ENTRY & QUEUING



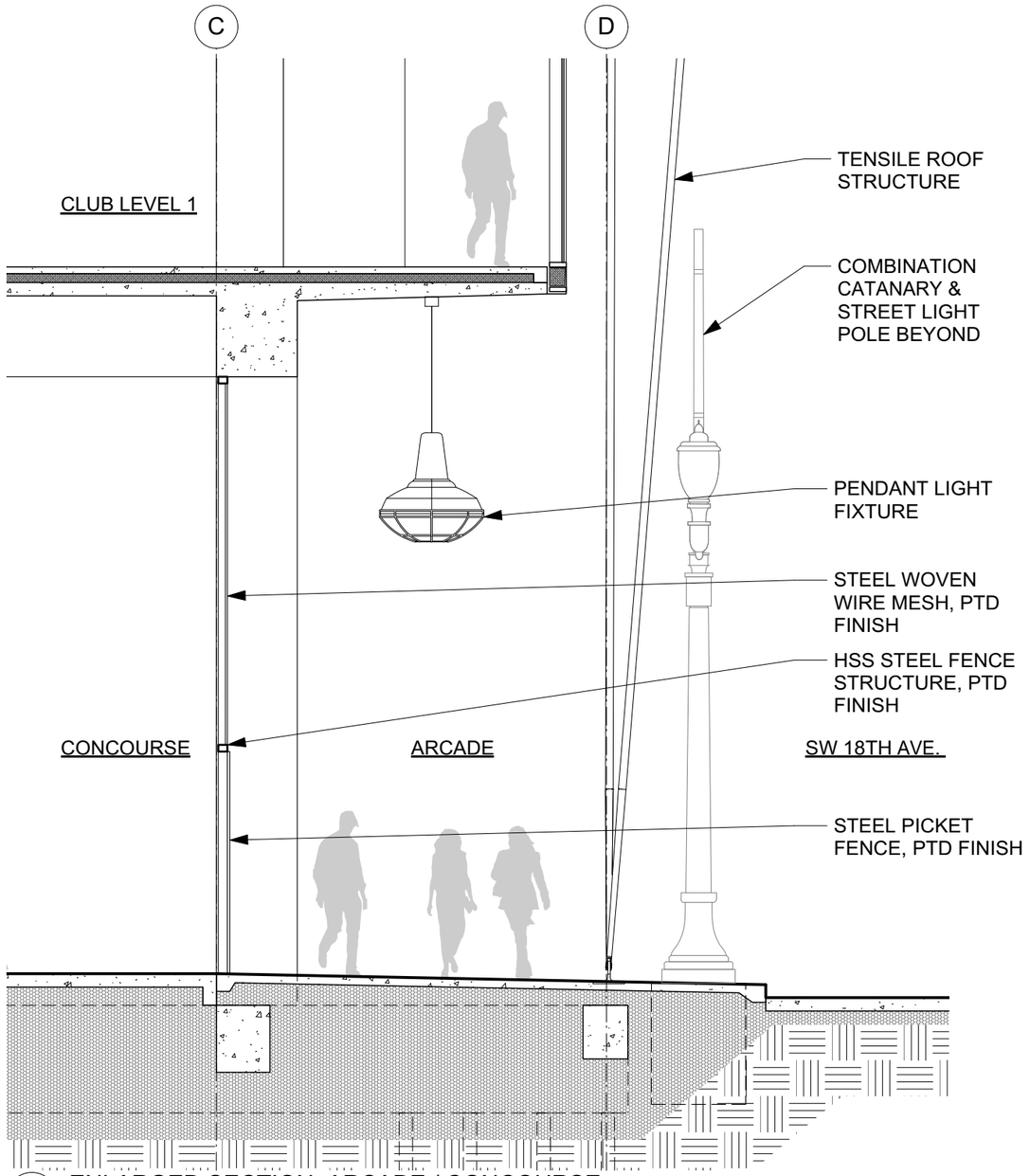
2 ENLARGED SECTION: ARCADE ENTRY



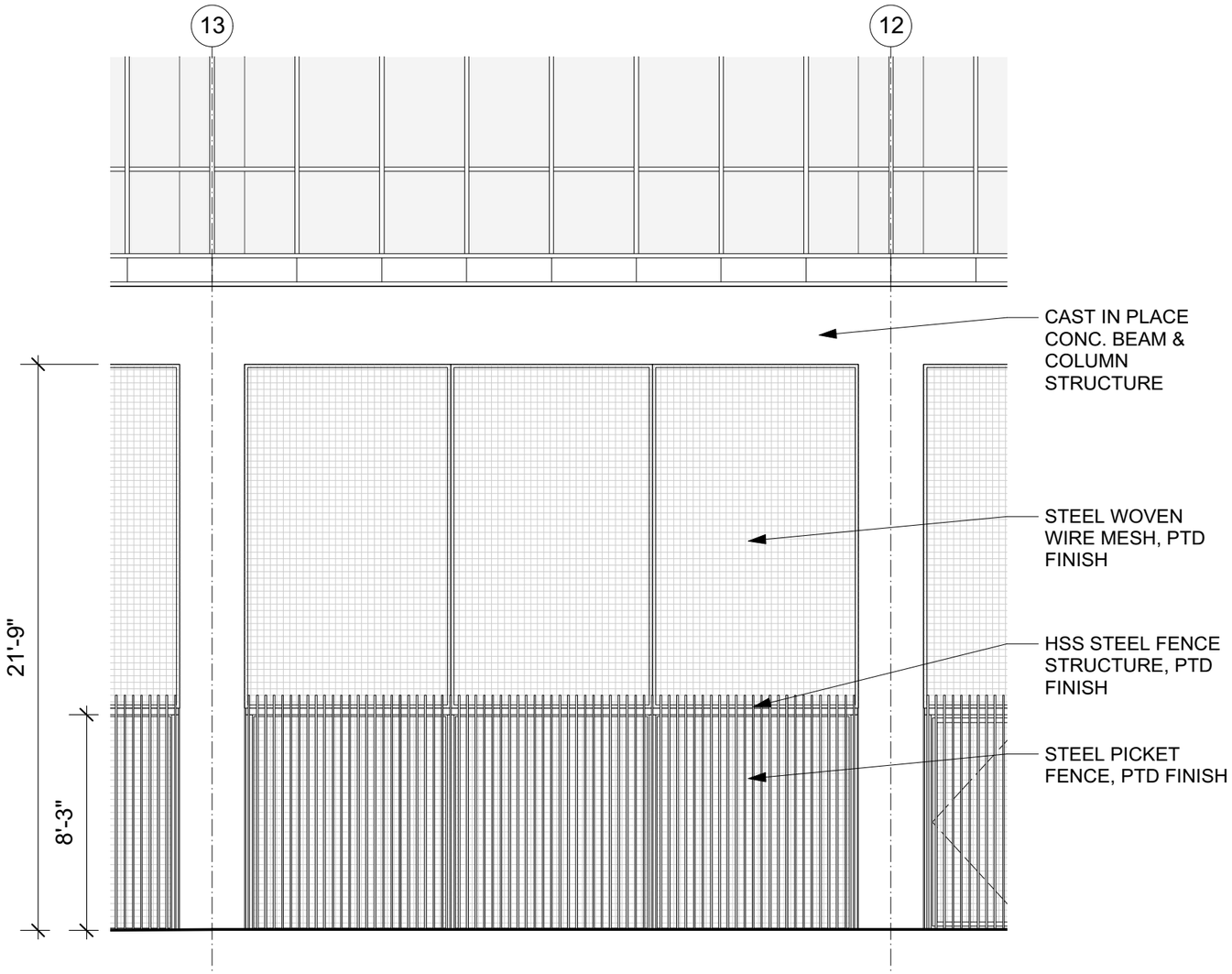
1 PARTIAL PLAN: ARCADE ENTRY

SCALE: 3/16"=1'-0" 0 1 5

ENLARGED ARCADE - TEMPORARY CURBSIDE BARRIER



1 ENLARGED SECTION: ARCADE / CONCOURSE

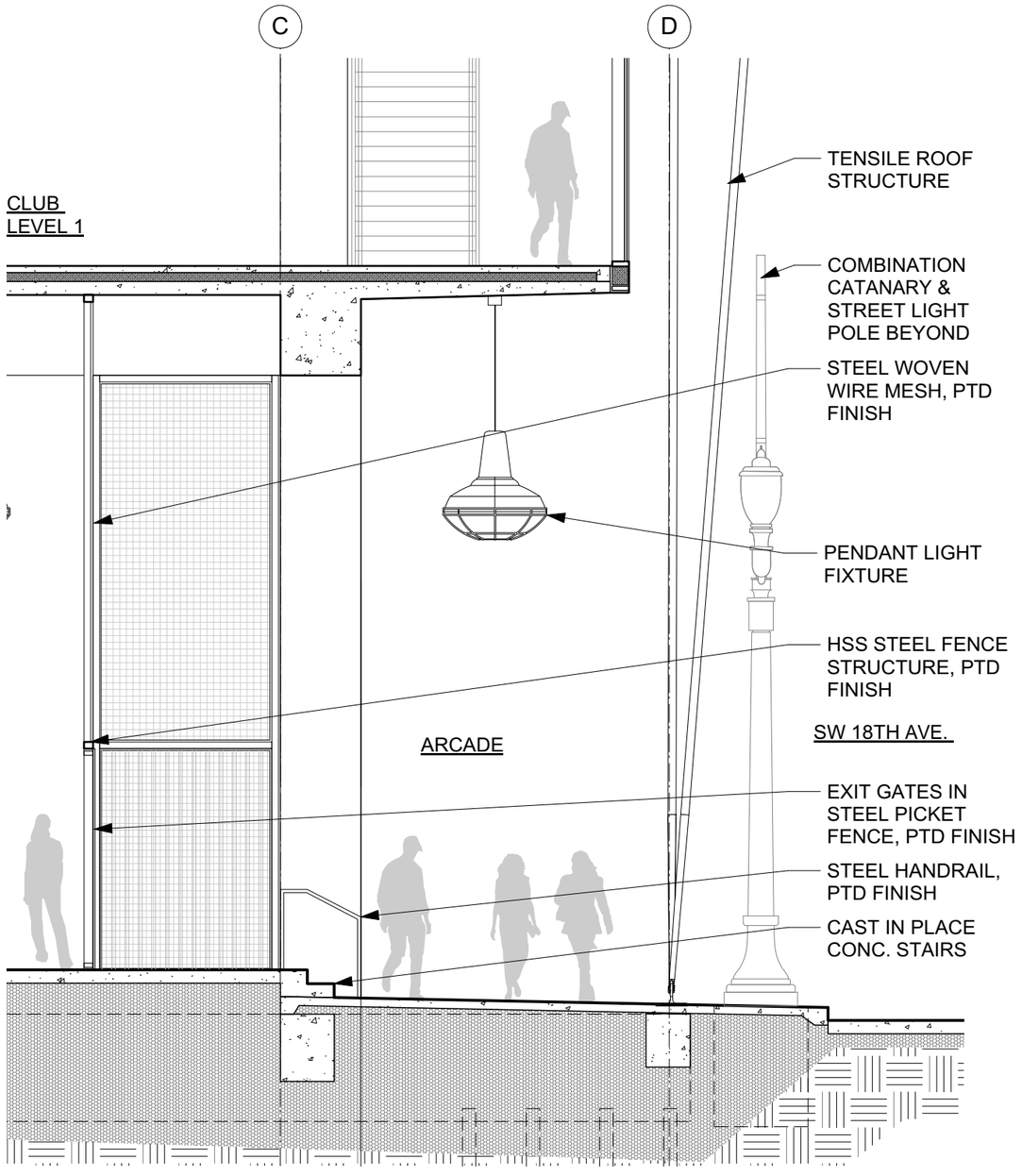


2 ENLARGED ELEVATION: PICKET FENCE @ ARCADE

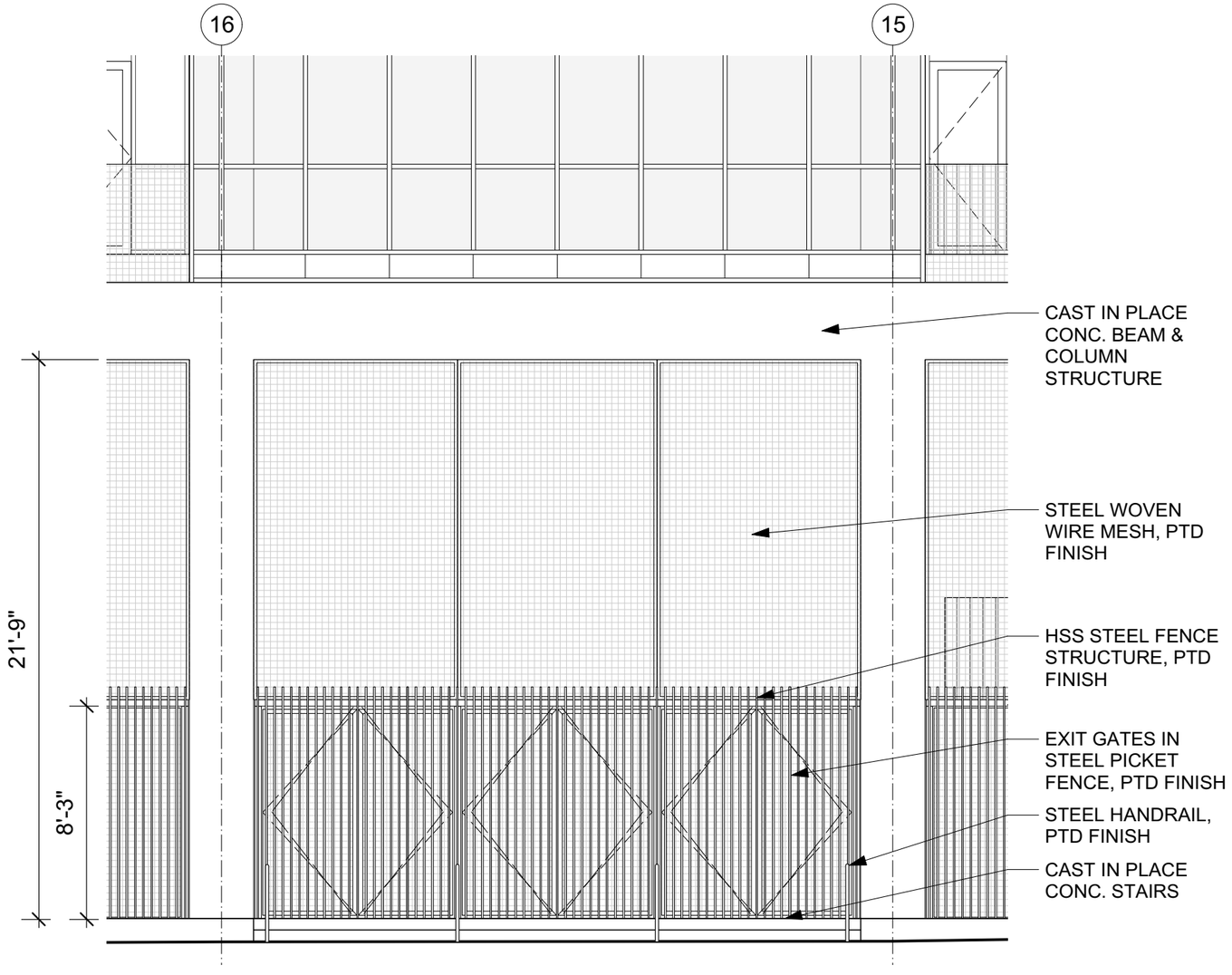
SCALE: 3/16"=1'-0"

0 1 5

ENLARGED ARCADE FENCE ELEVATION



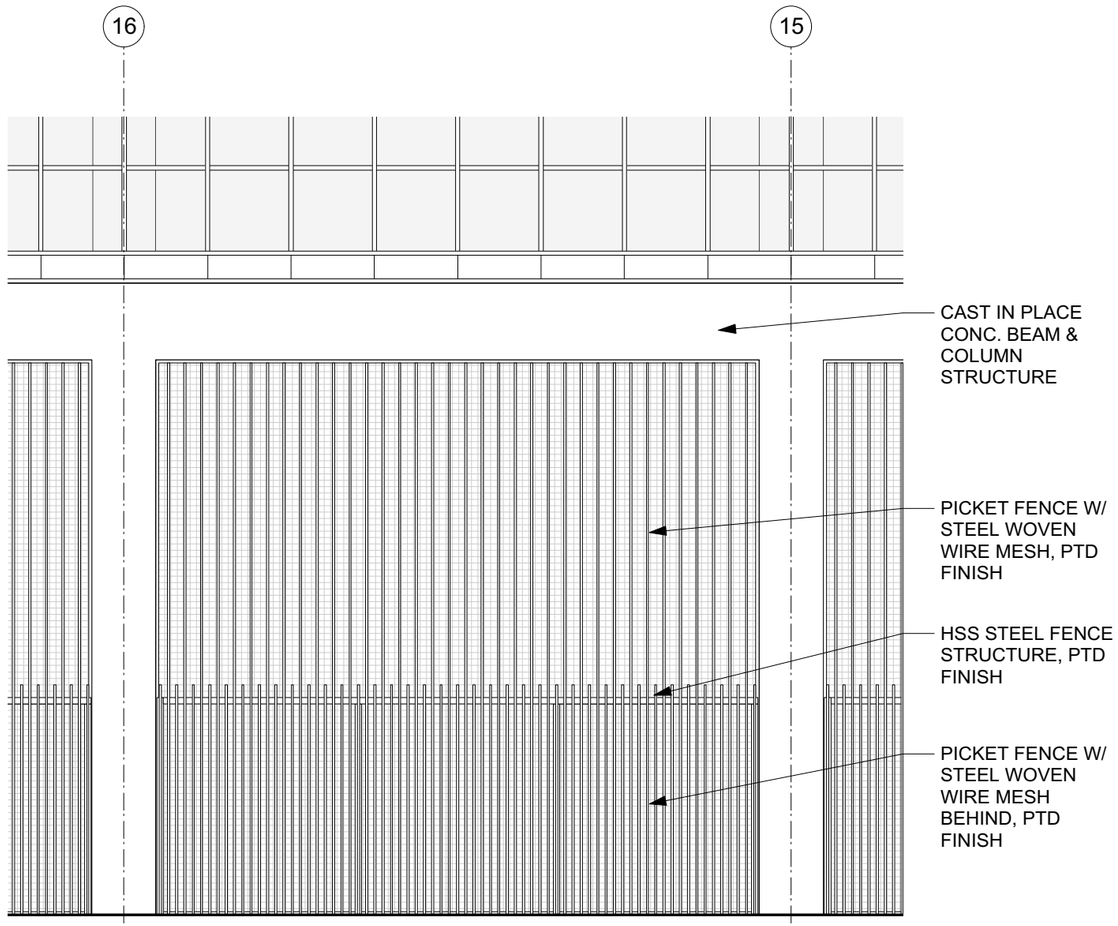
1 ENLARGED SECTION: ARCADE / CONCOURSE EXIT



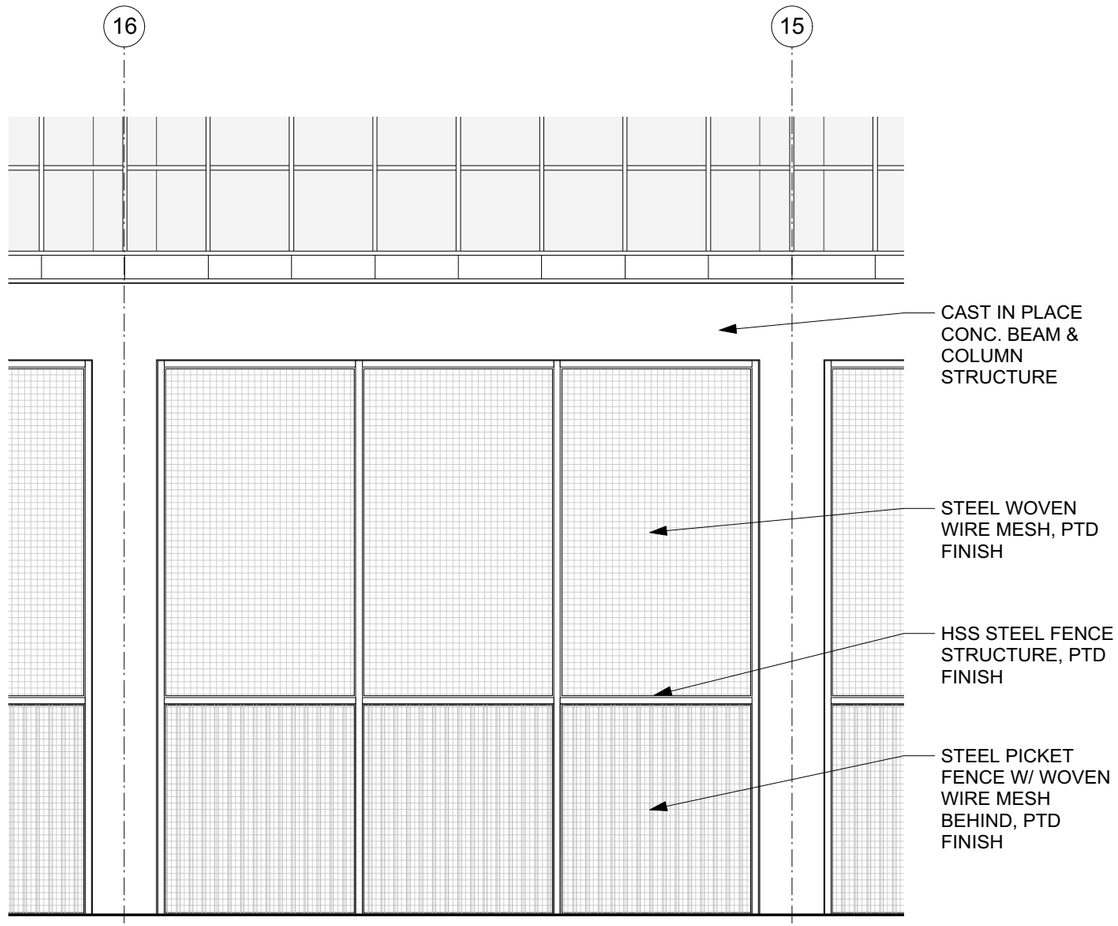
SCALE: 3/16"=1'-0"
0 1 5

2 ENLARGED ELEVATION: PICKET FENCE @ ARCADE / CONCOURSE EXIT

ENLARGED ARCADE FENCE ELEVATION



2 ENLARGED ELEVATION: PICKET FENCE @ ARCADE
ALTERNATE B



1 ENLARGED ELEVATION: PICKET FENCE @ ARCADE
ALTERNATE A

SCALE: 3/16"=1'-0"
0 1 5

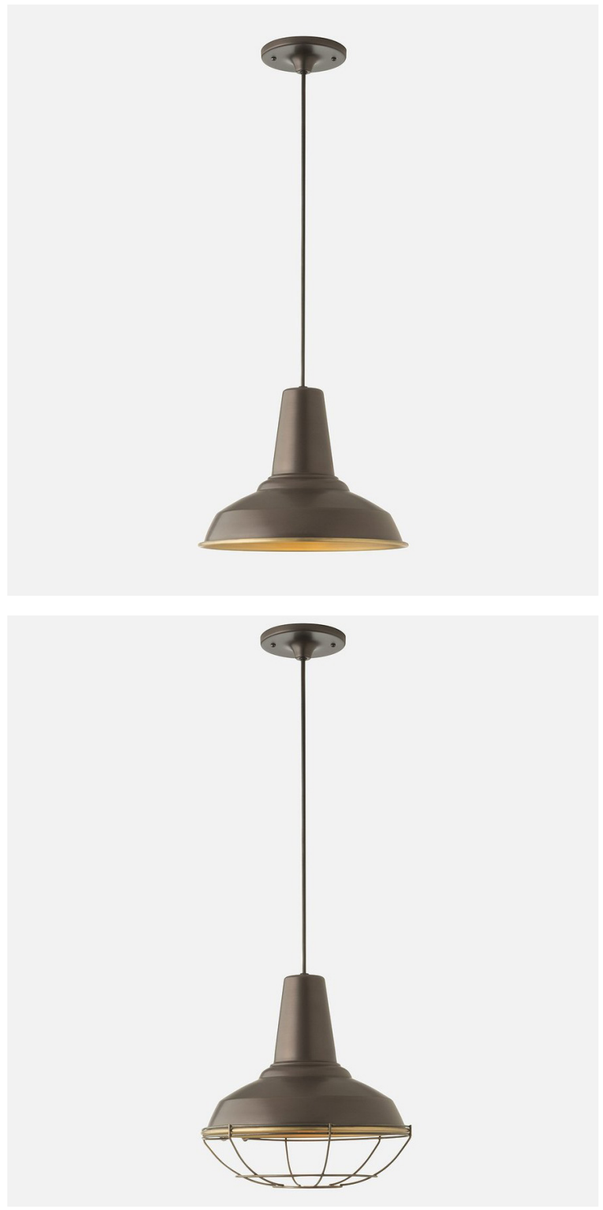
ENLARGED ARCADE FENCE ELEVATIONS

ARCADE PENDANT LIGHT FIXTURE RESEARCH

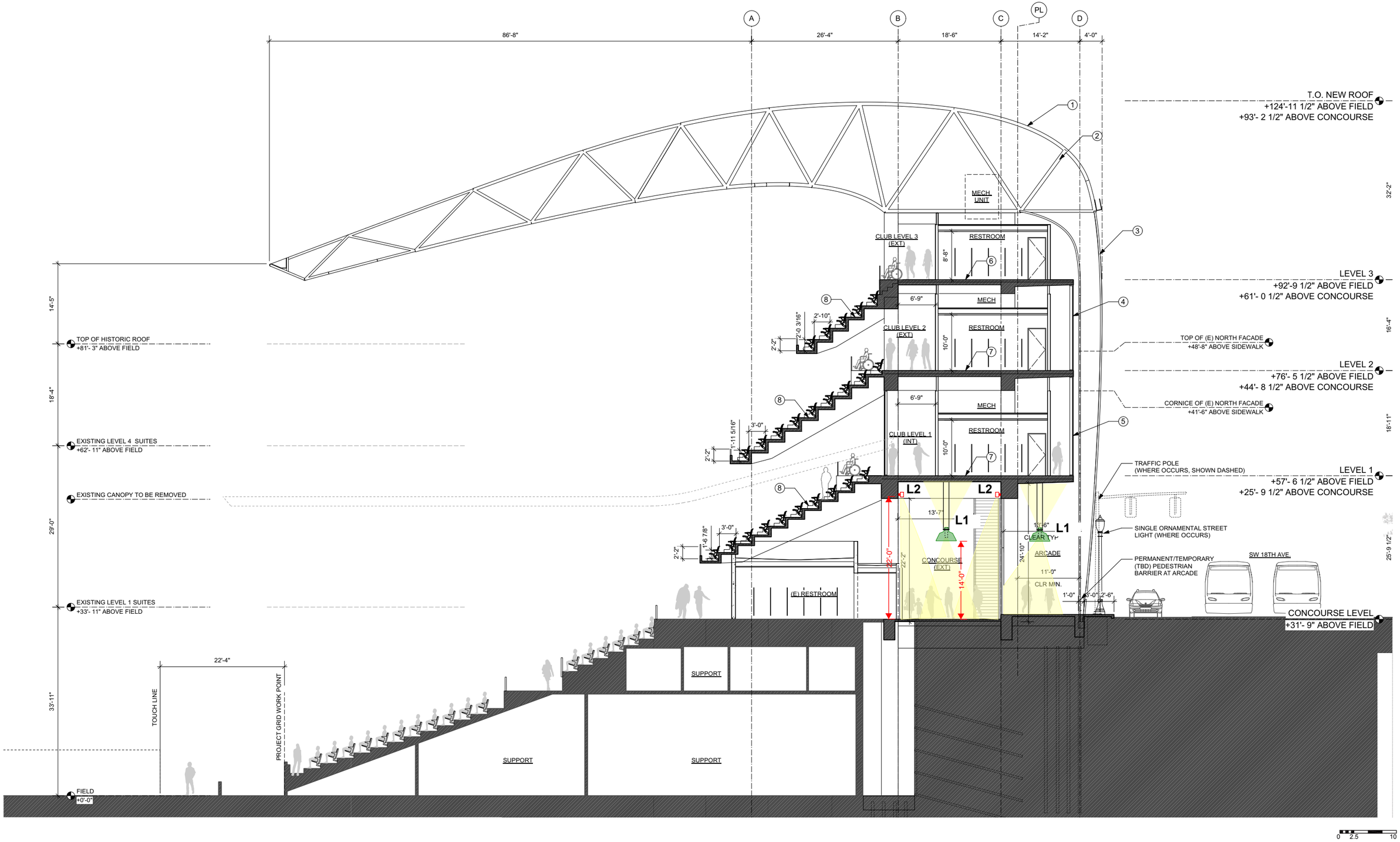
COURTESY OREGON HISTORICAL SOCIETY

CIVIC STADIUM MARCH 4, 1967
VIEW LOOKING NORTH ALONG CONCOURSE TOWARD SW MORRISON STREET

ARCADE PENDANT LIGHT FIXTURE PRECEDENT



ARCADE PENDANT LIGHT FIXTURE RESEARCH AND PRECEDENT

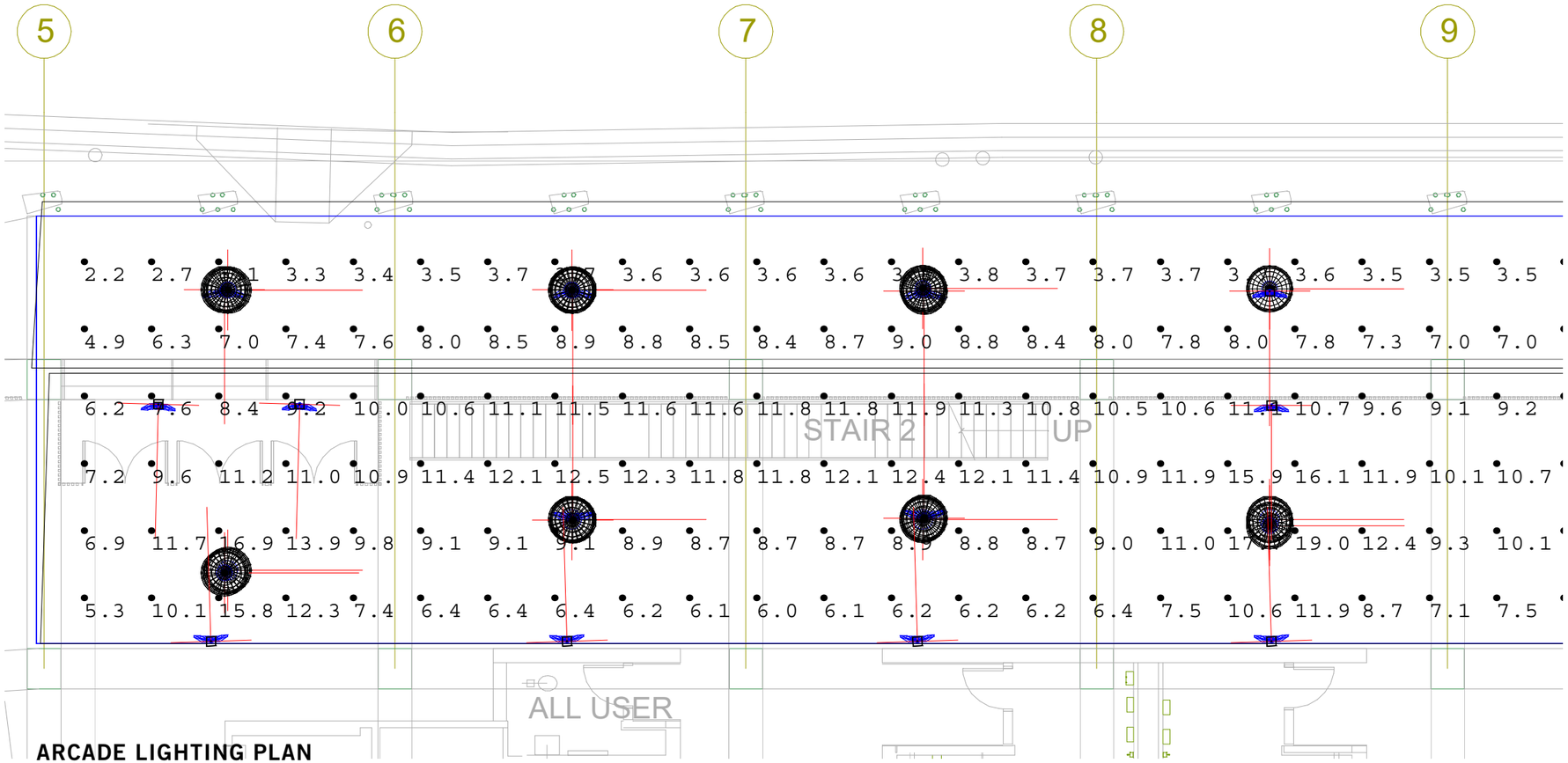


ARCADE LIGHTING SECTION

ARCADE LIGHTING CALCULATIONS

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Floor_Top	Illuminance	Fc	9.09	20.2	2.2	4.13	9.18
Arcade	Illuminance	Fc	5.74	9.0	2.2	2.61	4.09
Main Concourse	Illuminance	Fc	10.90	20.2	5.3	2.06	3.81

Luminaire Schedule					
Tag	Symbol	Qty	Label	Total Lamp Lumens	LLF
L1		10	UTA-95351-M-W30	N.A.	1.000
L1		21	UTA-95351-W-W30	N.A.	1.000
L1		16	TA-80551-T2-W30	N.A.	1.000
L2		26	TA-80561-T2-W30	N.A.	0.800

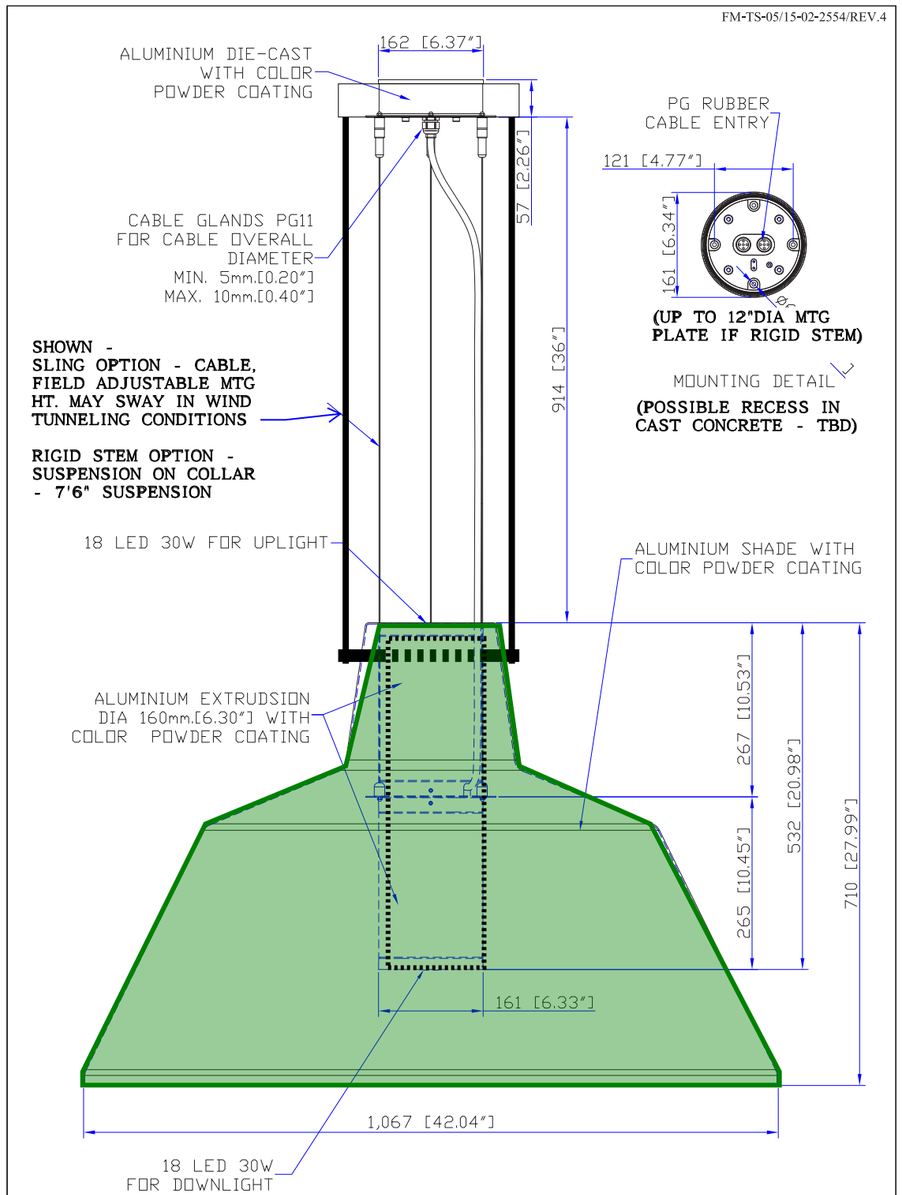


ARCADE LIGHTING PLAN

0 2.5 10

ARCADE LIGHTING PHOTOMETRICS

TYPE L1



LIGMAN LIGHTING USA
7144 NW Progress Court, Hillsboro
Oregon, 97124, USA
Tel : 503 645 0500 | Fax : 503 645 8100

DESCRIPTION ART.UTA-95351 TANGO PENDANT DIA 160mm. (6.3") MODIFY DOUBLE TANGO FOR UP-DOWN 2x18 LED 2x30W AND OUTSIDE SPINNING SHADE

Designed by	Checked by	Approved by	Customer Approved	Dwg. No.	Scale	Q'ty	PROCESS
PUTTAWAN	*RATCHANEE			US-1599	1:7	-	N / S
				Date	Rev.		MANUAL M / S
				18/07/17			

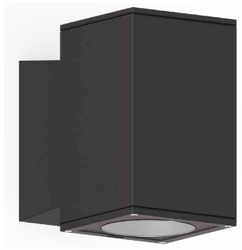
TYPE L2

Surface

UJE-30411

Jet 34 Downlight

LIGMAN LIGHTING USA



Wall luminaires with a selection of light distributions and LED wattages with down light distributions. The Jet offers a variety of beam spread options that facilitates wider spacing and even light distribution between the light fixtures. The up/down light versions can be manufactured using different beam spreads for the up and down optics as well as different wattages upon request.

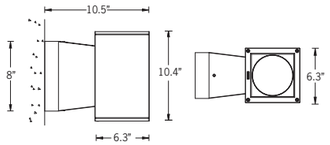
Mounting plate for 3" junction box is provided with the fixture. A 4" junction box mounting plate is available as an option.
Matching surface mount conduit boxes are available as an option.
Custom round pole adapters can be manufactured to suit specific pole diameters for column mounting applications. Please contact the factory for more information.

For the Cylindrical downlight option, see Jet 31, 33 and 51.
For type II, III & IV distributions, see Tango 29 to 32 surface wall luminaires.
For RGBW options, see Jet 51 to 54.

Physical Data

Length • 10.5"
Height • 10.4"
Weight • 11 lbs

IP65 • Suitable For Wet Locations
IK08 • Impact Resistant (Vandal Resistant)



Aluminum Casting
Less than 0.1% copper content – Marine Grade LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket.
Provided with special injection molded **"fit for purpose"** long life high temperature **memory retentive silicon gaskets**. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management.
LM6 Aluminum is used for its **excellent mechanical strength and thermal dissipation properties** in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0 - U0 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint.
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware.
Provided Hardware is **Marine grade 316 Stainless steel.**

Anti Seize Screw Holes
Tapped holes are infused with a **special anti seize compound** designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens.
Provided with tempered, impact resistant **crystal clear low iron glass** ensuring no green glass tinge.

Optics & LED
Precise optic design provides **exceptional light control and precise distribution of light.**
LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Standard Options

Lamp
39w LED 3104 Lumens

Beam
N • Narrow 13°
M • Medium 20°
W • Wide 40°
VW • Very Wide 61°

LED Color
W27 • 2700K
W30 • 3000K
W40 • 4000K

Finish Color
01 - Black - RAL 9011
02 - Dark Grey - RAL 7043
03 - White - RAL 9003
04 - Metallic Silver - RAL 9006
05 - Matte Silver - RAL 9006
06 - Bronze - RAL 6014
07 - Custom RAL

Options (Consult Factory for Pricing)

SCE - Custom Surface Conduit Entry Box
HGT- Specify Custom Height
REMG - Remote Emergency Battery Pack
4MP - 4" J-Box Mounting Plate
F - Frosted Lens

Ordering Example : UJE - 30411 - 39w - N - W30 - 02 - 120/277v - Options

	Lamp	Beam	LED Color	Color	Voltage	Options		
UJE	30411	39w LED						

Beam		LED Color		Color		Voltage	Options	
N	Narrow	W27	2700K	01	Black	120/277v	SCE	Surface Conduit Entry
M	Medium	W30	3000K	02	Dark Grey	Other (Specify)	HGT	Custom Height
W	Wide	W40	4000K	03	White		4MP	4" J-Box Mounting Plate
VW	Very Wide			04	Metallic Silver		REMG	Remote Emergency Battery Pack
				05	Matte Silver		F	Frosted Lens
				06	Bronze			
				07	Custom RAL			

PROJECT: DATE: QUANTITY:
TYPE: NOTE:

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information.

Head Office:
7144 NW Progress Ct
Hillsboro, Oregon 97124
Tel: 503-645-0500
Fax: 503-645-8100
www.ligmanlightingusa.com

Intertek

ARCADE LIGHT FIXTURE

SW YAMHILL ST

SW TAYLOR ST

SW 18TH AVENUE

20.6'

32.5'

17.5'

PROPOSED ROOF TIE-BACK STRUCTURES, TYP.

PROPOSED ROOF CANOPY OVERHANG LIMITS

BUILDING BOUNDARY

PROVIDENCE PARK IMPROVEMENTS

NEW WORK IN THE PUBLIC RIGHT-OF-WAY IS NOT APPROVED AS PART OF THIS BUILDING PERMIT. ALL FRONTAGE IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED UNDER SEPARATE PUBLIC WORKS PERMIT. SEE PBOT JOB NO. (TBD)

RESTROOMS

RESTROOMS

RESTROOMS

CONCESSION

TEAM STORE

SPORTS CARE CENTER

KIOSK

CAMERA DECK

NEW STORMWATER DETENTION SYSTEM

RECONSTRUCT STAIR AND SIDEWALK CONCRETE AREA OVER NEW STORMWATER DETENTION FACILITY

PROPOSED ROOF CANOPY OVERHANG LIMITS

SHEET NOTES

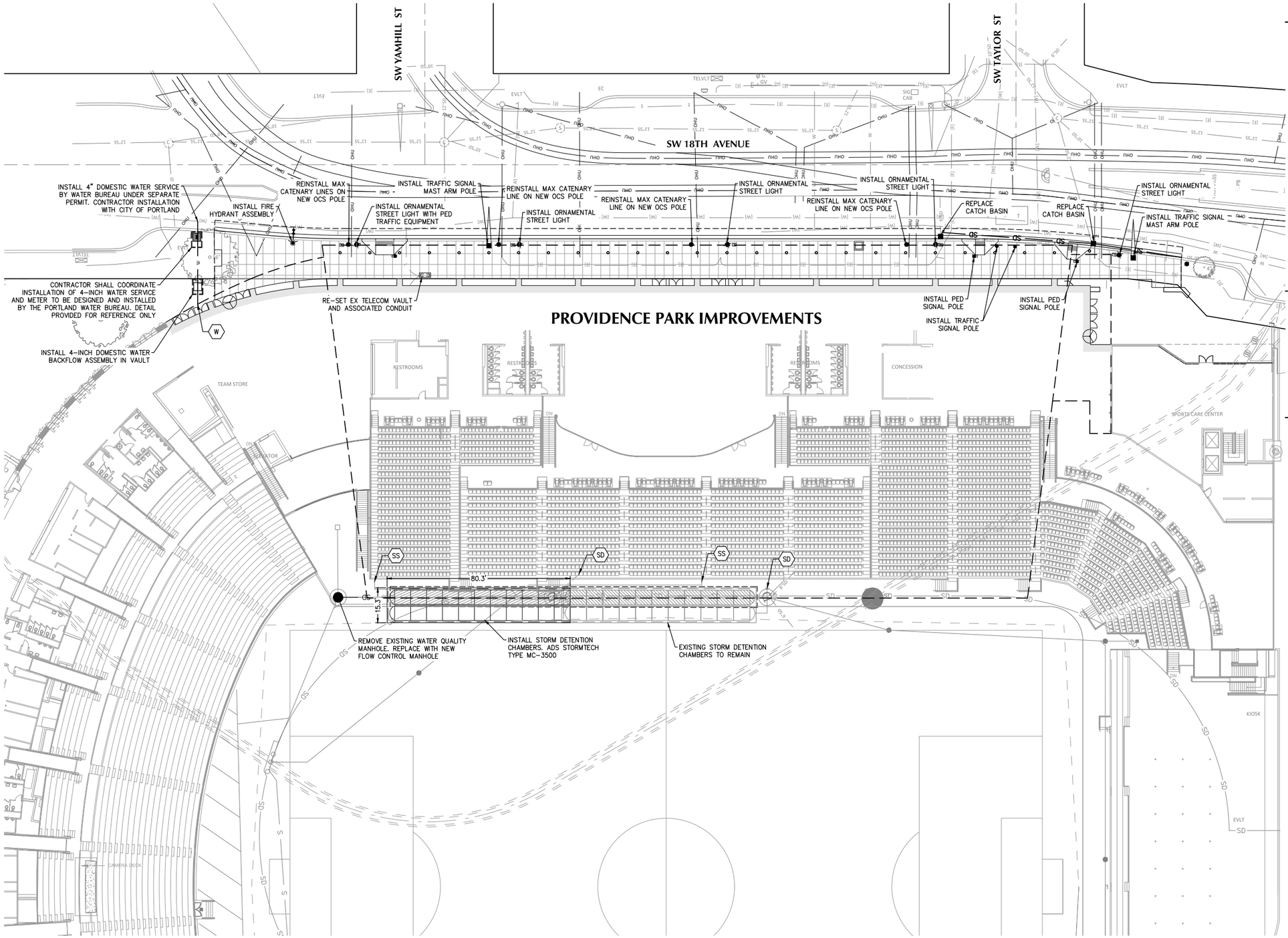
1. ALL DIMENSIONS ARE TO FACE OF CURB OR FACE OF WALL.
2. LOCATION OF STREET SIGNS, STREET LIGHTS, AND STREET TREES ALONG WITH FINAL DESIGN AND GRADING OF RIGHT-OF-WAY SHALL BE DETERMINED DURING CITY OF PORTLAND DEPARTMENT OF TRANSPORTATION FRONTAGE IMPROVEMENT PERMIT PROCESS.
3. ALL FRONTAGE AND UTILITY IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE CONSTRUCTED UNDER SEPARATE PUBLIC WORKS PERMIT. SEE PBOT JOB NO. (TBD).

SCALE 1 INCH = 20 FEET

20 0 20 40

00379-P TFC:\CAD\PLOT\ONSITE\16379-2-SITE.dwg TAB:C200
3:20pm By: Ssadino

CIVIL SITE PLAN



SHEET NOTES

1. ALL TRENCH BACKFILL FOR STORM AND SEWER LATERASL SHALL BE PER BES STANDARD DETAIL P-100. FLOODING OR JETTING THE BACKFILLED TRENCH WITH WATER IS NOT PERMITTED. PIPING SHALL BE BEDDED PER BES STANDARD DETAIL P-101. SAWCUT AND REPLACE ASPHALT PER BES STANDARD DETAIL. DETAILS PROVIDED ON SHEET C600. ALL OTHER UTILITIES SHALL BE INSTALLED PER PBOT STANDARD TRENCHING AND BACKFILL DETAILS.
2. ALL UTILITY SERVICE PIPING WITHIN 5' OF ANY BUILDING SHALL BE AN APPROVED MATERIAL OF THE UNIFORM BUILDING CODE.
3. ALL STORM DRAIN PIPE MATERIALS AND FITTINGS SHALL CONFORM TO THE OREGON PLUMBING SPECIALTY CODE, CURRENT EDITION.
4. CONTRACTOR SHALL DESIGN SHORING SYSTEMS FOR TRENCH EXCAVATIONS DEEPER THAN FOUR FEET.
5. A DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) IS TO BE INSTALLED ON THE FIRE SPRINKLER WATER SERVICE. THE DCDA IS TO BE INSTALLED AT THE POINT WHERE THE WATER SERVICE FIRST ENTERS THE BUILDING IMMEDIATELY ADJACENT TO THE WATER SERVICE AND BE INSTALLED BETWEEN ONE AND FIVE FEET ABOVE THE FINISHED FLOOR ELEVATION. INSTALLATION MUST COMPLY WITH TITLE 21 OF THE CITY CODE.
6. A DOUBLE CHECK VALVE ASSEMBLY (DCVA) IS TO BE INSTALLED AT THE PONT WHERE THE WATER SERVICE FIRST ENTERS THE BUILDING IMMEDIATELY ADJACENT TO THE WATER SERVICE AND BE INSTALLED BETWEEN ONE AND FIVE FEET ABOVE THE FINISHED FLOOR ELEVATION. INSTALLATION MUST COMPLY WITH TITLE 21 OF THE CITY CODE.

UTILITY KEY NOTES

(SD)	X" XX.XX	CONNECTED STORMWATER TO PROPOSED STORM DRAINAGE LATERAL. SIZE AND IE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.
(SS)	X" XX.XX	CONNECT SEWER TO WASTE LINE. SIZE AND IE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.
(W)	X"	CONNECT DOMESTIC WATER SYSTEM TO PROPOSED WATER SERVICE. SEE PLUMBING PLANS FOR CONTINUATION INSIDE THE BUILDING.

UTILITY CONTACT INFORMATION

PORTLAND GENERAL ELECTRIC
PGE WORK ORDER: M2309527
KOLBY HOLLINGSWORTH
503-963-6928
KOLBY.HOLLINGSWORTH@PGN.COM

COMCAST
LEROY SOUMOKIL
971-801-5723
LEROY_SOUMOKIL@COMCAST.COM

K&B TECHNICAL SOLUTIONS
SHAWN MURPHY
503-650-6041 EXT. 213
SHAWN_MURPHY@KBMAIL.NET

CENTURY LINK
DENNIS ERICKSON
503-242-4144
DENNIS.ERICKSON@CENTURYLINK.COM

TRIMET
KAI LOOIJENGA, MANAGER CP RAIL SYSTEMS
503-962-2175
LOOIJENK@TRIMET.ORG

SCALE 1 INCH = 20 FEET
20 0 20 40

CIVIL UTILITY PLAN

00379-PTFC\CAD\PLOT\ONSITE\16379-3-UTIL.dwg TAB:C300
3:20pm By: SSaldaño

1600 Wall System®1 / System®2

Imposing Statements –
Used Together
Or Independently

Knight Oil Tools Corporate Facility, Lafayette, LA
Architect: Donald J. Breaux Architect, Lafayette, LA
Glazing Contractor: Advantage Glass & Mirror, New Iberia, LA, with installation assistance from DeGeorge Glass Company, Inc., Metairie, LA

Building on the proven success of Kawneer's 1600 Wall System® which set the standards for curtain wall engineering, 1600 Wall System®1 and 1600 Wall System®2 provide reliability with versatile features. Both are stick-fabricated, pressure glazed curtain walls for low-to-mid-rise applications and are designed to be used independently or as an integrated system to provide visual impact for almost any type of building.

- 1600 Wall System®1 is an outside glazed, captured curtain wall
- 1600 Wall System®2 is a Structural Silicone Glazed (SSG) curtain wall

Aesthetics

Even the smallest details of 1600 System®1/1600 Wall System®2 reflect the aesthetics and reliability that derive from Kawneer's precise engineering and experience. The joinery for both systems is accomplished with concealed fasteners to create unbroken lines and a monolithic appearance. When using optional, open back horizontal mullions, the fillers snap at the edge, producing an uninterrupted sight line.

KAWNEER
AN ALCOA COMPANY

Performance

Key aspects of 1600 System®1 and 1600 Wall System®2 are enhanced for higher performance. Pressure equalization has been designed into the system and all components are silicone compatible to provide superior longevity. For installations where severe weather conditions are prevalent, 1600 Wall System®1 has been large missile hurricane impact and cycle tested. Proven through years of high performance, both systems are tested according to industry standards:

Air Performance	ASTM E-283
Static Water Penetration	ASTM E-331
Dynamic Water Penetration	AAMA 501.1
Structural Performance	ASTM E-330
"U" Value, CRF	AAMA 1503.1
Sound Transmission Rating	ASTM E 90-90
Seismic Performance	AAMA 501.4

For the Finishing Touch

Permadonic Anodized finishes are available in Class I and Class II in seven different colors.

Painted Finishes, including fluoropolymer that meet or exceed AAMA 2605, are offered in many standard choices and an unlimited number of specially-designed colors.

Solvent-free powder coatings add the "green" element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.

Hunter Henry Center at Mississippi State University,
Mississippi State, MS
Architect: Foil Wyatt Architects & Planners, P.A., Jackson, MS
Glazing Contractor: American Glass Company, Inc., Columbus, MS

1600 Wall System®1 | 1600 Wall System®2

1600 Wall System®1/1600 Wall System®2:

- for reliability
- for performance
- for versatility
- for a smooth, monolithic appearance
- for uninterrupted sight lines

Kawneer Company, Inc.
Technology Park / Atlanta
555 Guthridge Court
Norcross, GA 30092

kawneer.com
770 . 449 . 5555

KAWNEER
AN ALCOA COMPANY

CURTAIN WALL SYSTEM

ORNILUX
Bird Protection Glass

ARNOLDGLAS

The Solution For Bird Protection Is Clear

Researchers estimate that up to one billion birds are killed each year in North America due to collisions with glass on human-built structures, making bird collisions one of the most significant causes of avian mortality globally.

With the understanding that birds are able to see light in the ultraviolet spectrum, bird-friendly glass innovator, ARNOLD GLAS developed ORNILUX Bird Protection Glass. The glass has a patterned, UV reflective coating making it visible to birds while remaining virtually transparent to the human eye.

What Birds See | What We See

ORNILUX: The Transparent Solution

With over 15 years of research and development behind it, ORNILUX is a proven bird-friendly glazing treatment.

ORNILUX, the leading multi-functional, clear glass solution to bird collisions is available as laminated glass or insulated units paired with Arnold Glas low-E coatings, thus providing energy efficiency and bird collision protection.

Vassar College Integrated Science Commons, Poughkeepsie, NY
Ennead Architects

Hellabrunn Zoo, Munich, Germany

AMERICAN BIRD CONSERVANCY
SAVES BIRDS TESTED
birdsavingglass.org

See Product Overview

BIRD FRIENDLY GLAZING

MATERIALS / CUT SHEETS

System Bulletin

StoTherm® ci Lotusan®

Decorative cladding with continuous air/moisture barrier and continuous insulation for heat, air and moisture control

Substrate: Glass Mat Gypsum sheathing in compliance with ASTM C 1177, Exterior or Exposure I wood-based sheathing (plywood or OSB), code compliant concrete, concrete masonry or portland cement plaster, existing structurally sound, uncoated brick or other masonry wall construction.

1)	StoGuard® Air and Moisture Barrier
2)	Three adhesive options: Sto TurboStick™, Sto BTS® Plus, or Sto BTS Xtra
3)	Sto EPS Insulation Board
4)	Sto Mesh (embedded in Sto base coat)
5)	Three base coat options: Sto BTS Plus, Sto BTS Xtra, or Sto RFP
6)	Sto Primer Sand (optional)
7)	Sto Textured Finish: Stolit® Lotusan®

System Description

StoTherm ci Lotusan is a decorative and protective exterior wall cladding that combines superior air and weather tightness with excellent thermal performance and durability. It incorporates continuous exterior insulation and a continuous air/moisture barrier with Sto's high performance finishes in a fully tested wall cladding assembly.

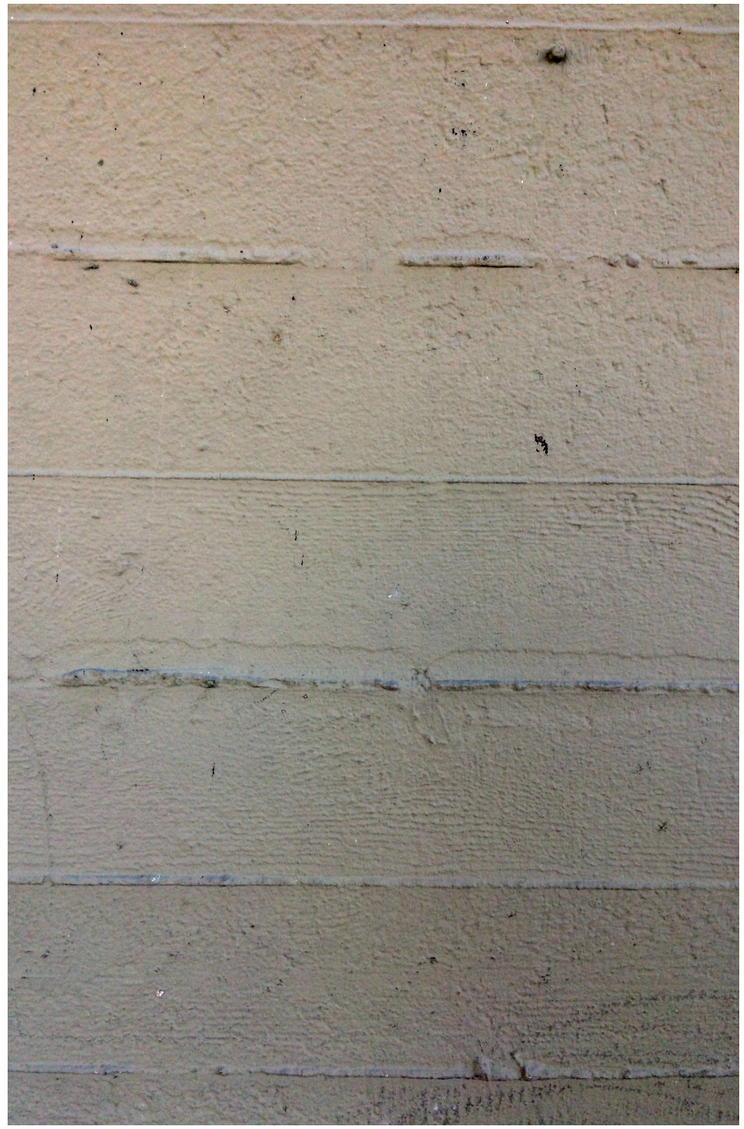
Uses

StoTherm ci Lotusan can be used in residential or commercial wall construction where energy efficiency, superior aesthetics, and air and moisture control are essential in the climate extremes of North America

Features	Benefits
Design versatility	Aesthetic and curb appeal easy to achieve
Self-cleaning properties	Reduce maintenance, extended time to recoat
Continuous exterior insulation, no mechanical fasteners	Energy efficient, reduced heating and cooling costs
Lightweight	Reduced structural costs
Continuous air and moisture barrier	Protects against mold and moisture problems
ICC-ES listed and evaluated	Fully tested building code compliant assembly
Properties	
Weight (not including sheathing and frame)	< 2 psf (10 kg/m^2)
Thickness (insulation)	1 to 12 inches (25 – 305 mm)
R-value (not including sheathing and frame)	3.6 – 43.2 ft^2•h•°F / Btu (0.63 – 7.60 m^2•K / W)
Wind Load Resistance	Tested up to ± 188 psf (9.00 kPa)
Compliance	• IBC and IRC (2006, 2009, 2012) • ASHRAE 90.1-2010
Construction Types and Fire Resistance	• I-V, NFPA 285 tested for types I-IV • ASTM E 119 tested for 1&2 hour walls
Warranty,	
15 year Limited Warranty	
Maintenance	
Requires periodic cleaning to maintain appearance, repair to cracks and impact damage if they occur, recoating to enhance appearance of weathered finish. Sealants and other façade components must be maintained to prevent water infiltration.	

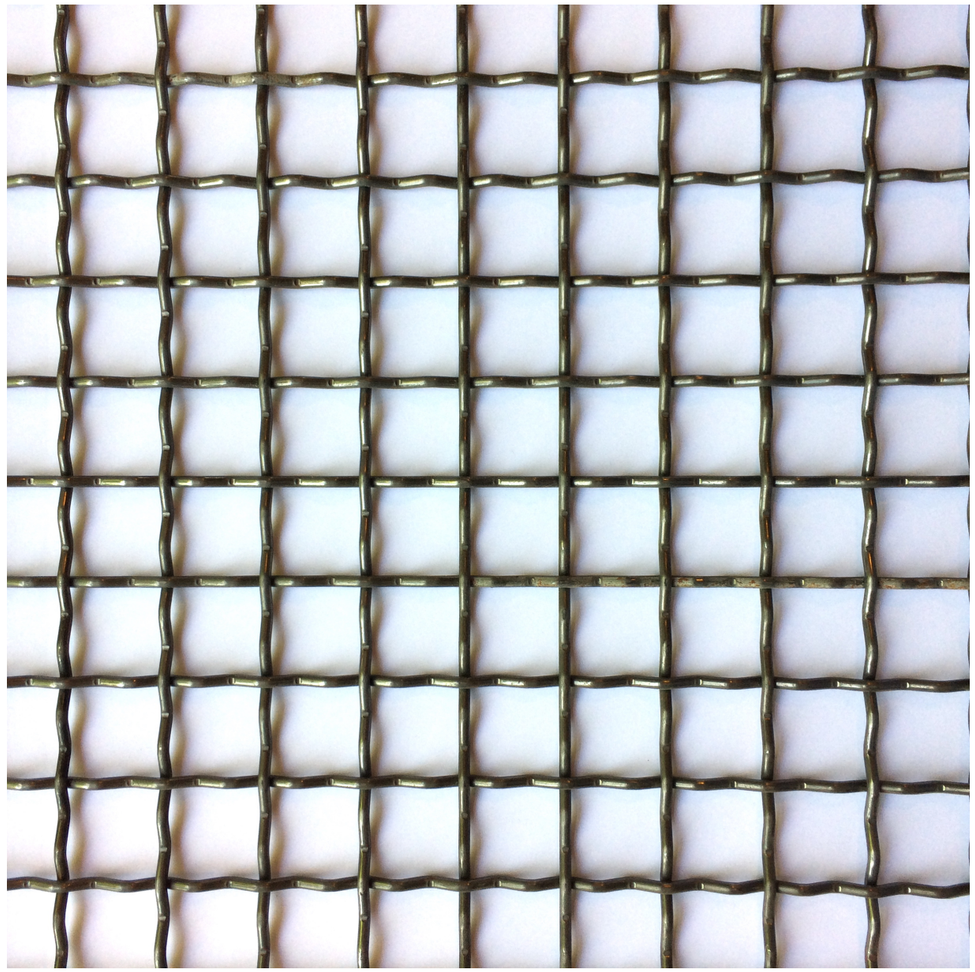
EXTERIOR PLASTER

BOARD FORM CONCRETE
2011 CONCOURSE FINISH

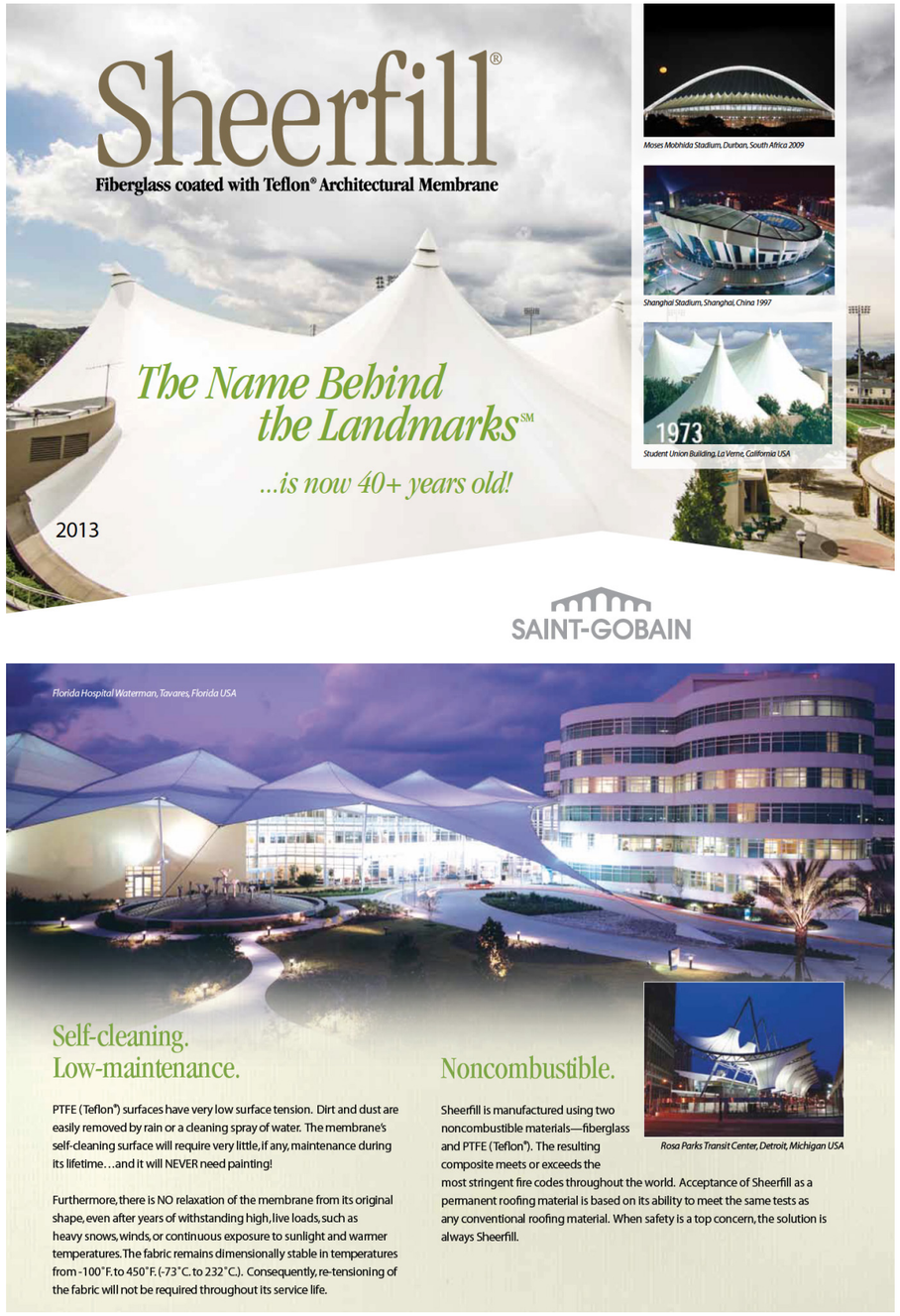


BOARD FORM CONCRETE
HISTORIC 1923 FINISH

MATERIALS / CUT SHEETS



RAILING MESH



ROOF CANOPY - PTFE FIBERGLASS MEMBRANE

MATERIALS / CUT SHEETS

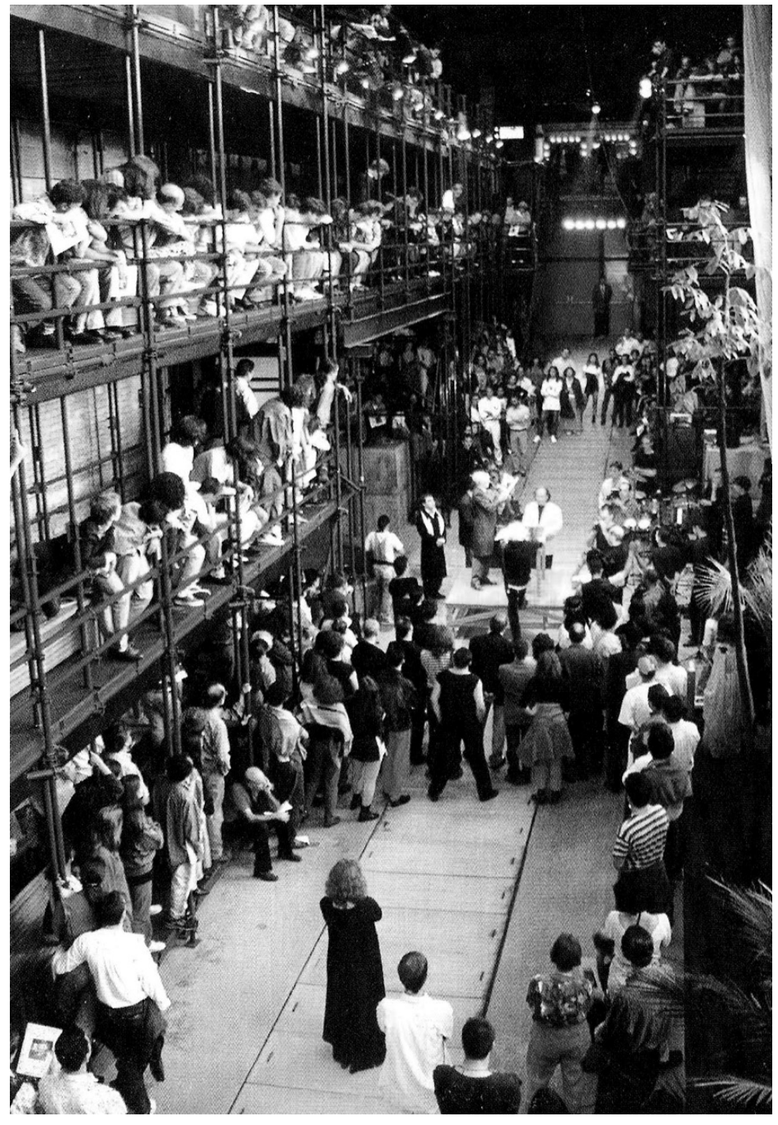
APPENDIX - “A” EXHIBITS

MULTNOMAH STADIUM (c. 1920)

LA BOMBONERA STADIUM / BOCA JUNIOR FC

DESIGN PRECEDENT

GLOBE THEATER



TEATRO OFICINA

DESIGN PRECEDENT

EAST BURNSIDE ARCADE
APPROX. 10’-0” WIDE
APPROX. 13’-7” TO 15’-5” TALL

EAST BURNSIDE ARCADE
APPROX. 10’-0” WIDE
APPROX. 10’-6” TO 21’-4” TALL

EAST BURNSIDE 1932

EAST BURNSIDE ARCADES

AERIAL VIEW

VIEW FROM SW MORRISON AND 18TH

VIEW FROM SW MORRISON AND 18TH

VIEW FROM SW MORRISON AND SALMON

PREVIOUS STAIR/ELEVATOR CORE

NEW STAIR/ELEVATOR CORE

VIEW FROM SW MORRISON AND SALMON - SOUTHERN CIRCULATION TOWER MASSING

SW 18TH AVE ARCADE

SW 18TH AVE ARCADE - GAME DAY

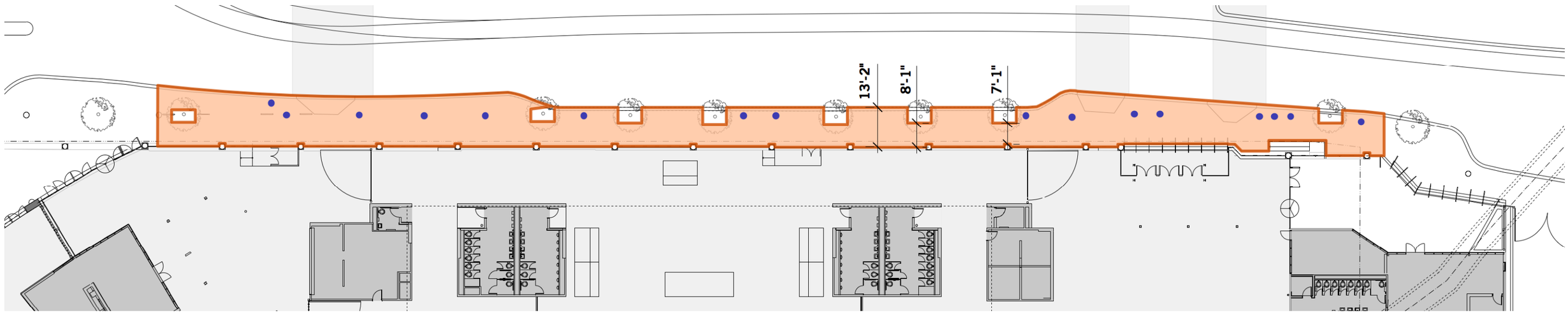
SW 18TH AVE ARCADE - NON GAME DAY

SW 18TH AVE ARCADE

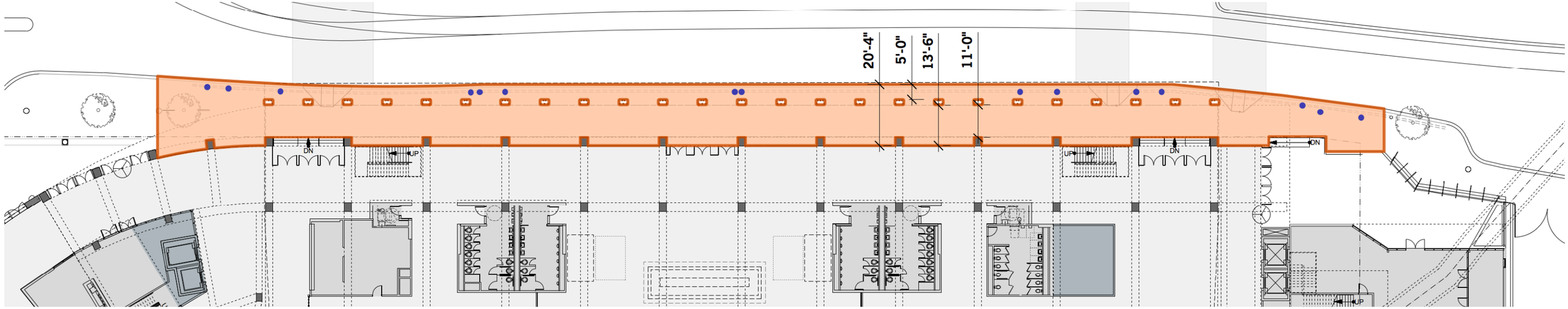
EXISTING SW 18TH AVE SIDEWALK

IMPROVED SW 18TH AVE SIDEWALK

SW 18TH AVE RIGHT OF WAY

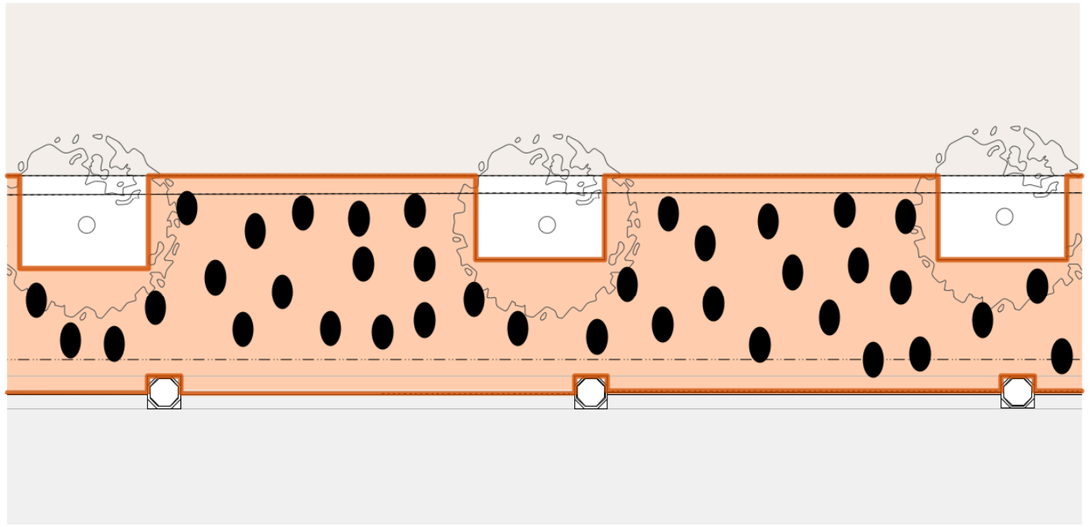


EXISTING PUBLIC SIDEWALK

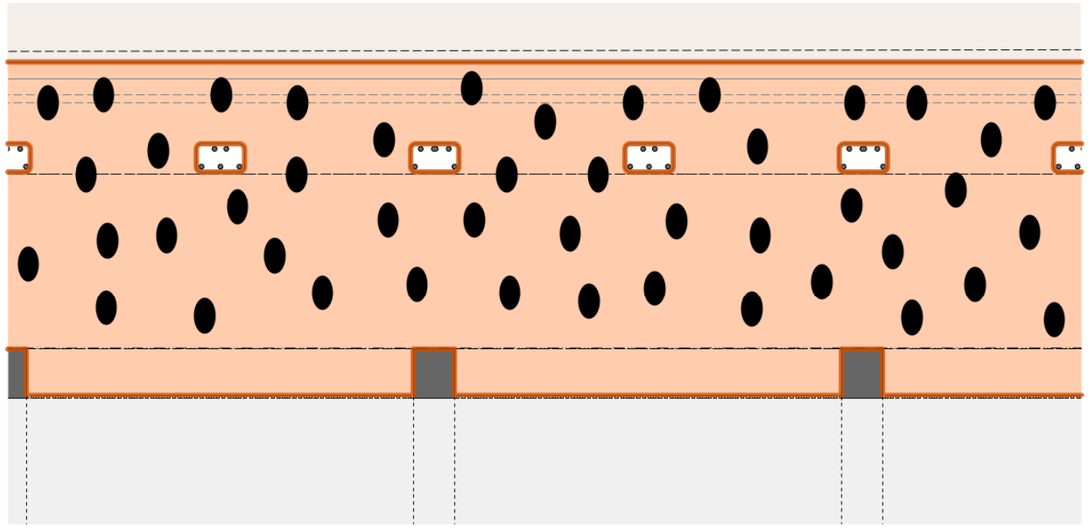


PUBLIC SIDEWALK WITH NEW ARCADE

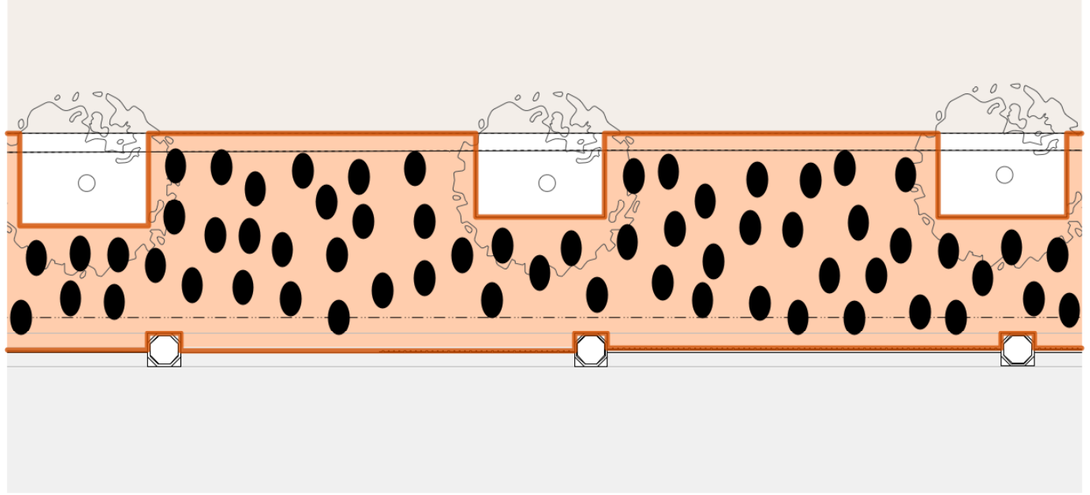
SW 18TH AVE - RIGHT OF WAY IMPROVEMENTS



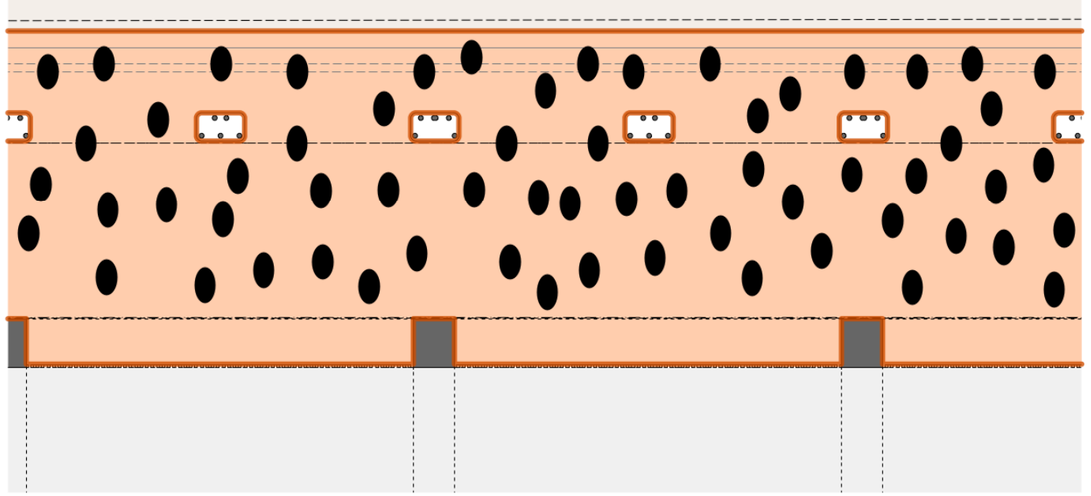
EXISTING INGRESS DENSITY
ACCOMMODATES APPROX. 3,200 PATRONS
20.79 FT² PER PEDESTRIAN



NEW INGRESS DENSITY
ACCOMMODATES APPROX. 7,200 PATRONS
24.38 FT² PER PEDESTRIAN (38% MORE SPACE)

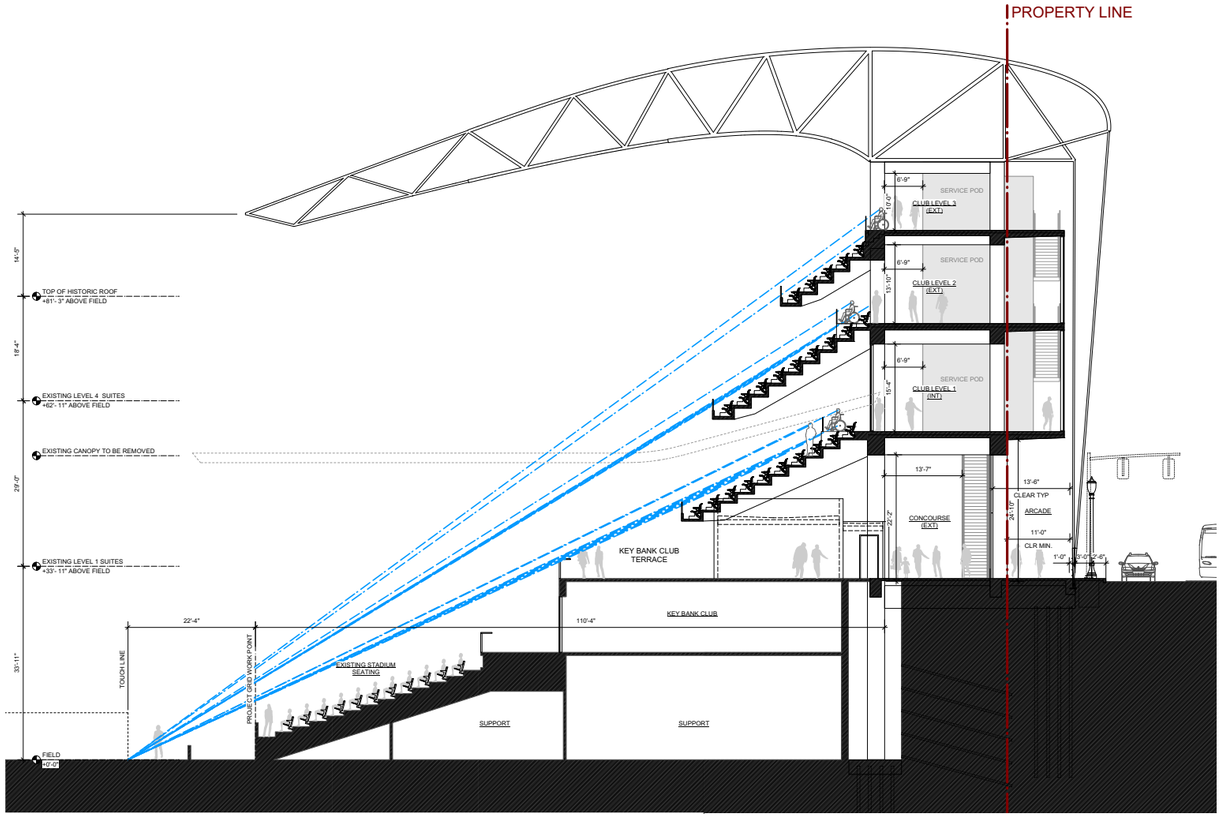


EXISTING EGRESS DENSITY
ACCOMMODATES APPROX. 4,900 PATRONS
13.00 FT² PER PEDESTRIAN



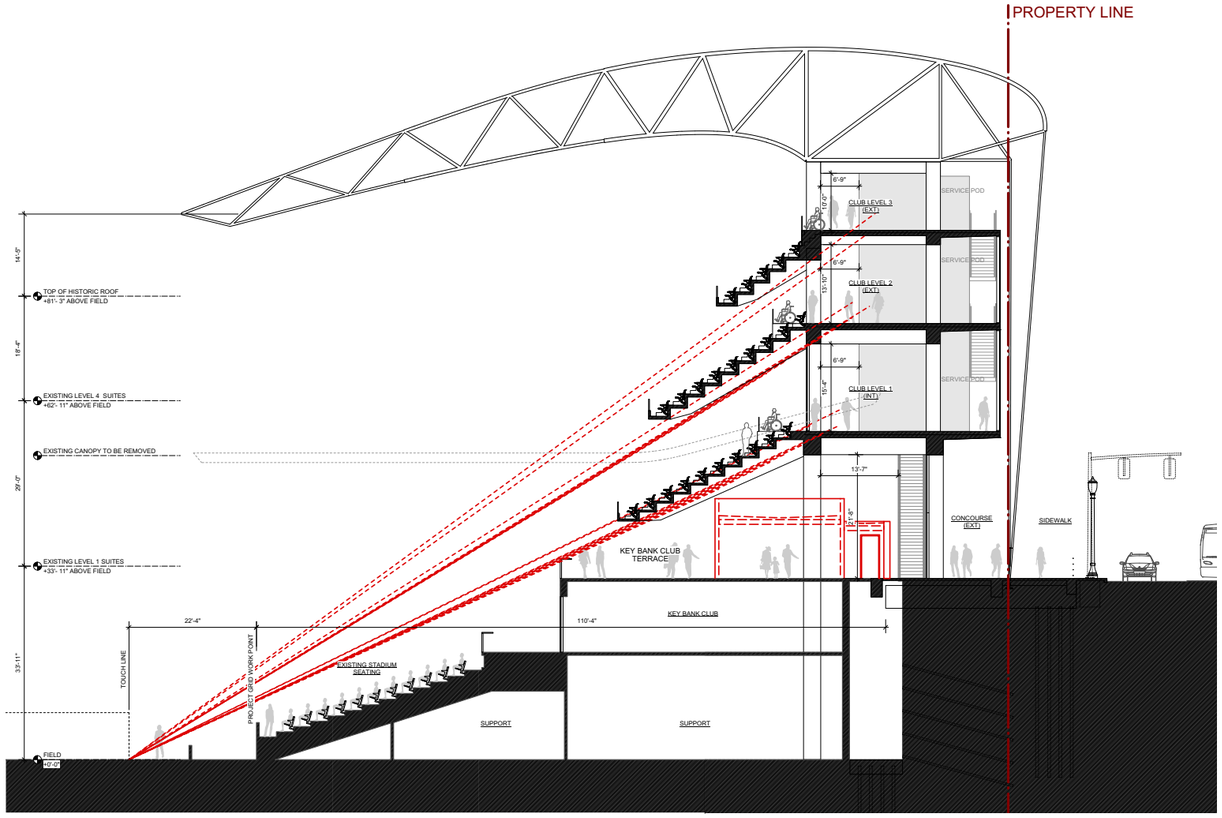
NEW EGRESS DENSITY
ACCOMMODATES APPROX. 8,900 PATRONS
18.29 FT² PER PEDESTRIAN (66% MORE SPACE)

SW 18TH AVE - CROWD MOVEMENT ANALYSIS



ARCADED SCHEME

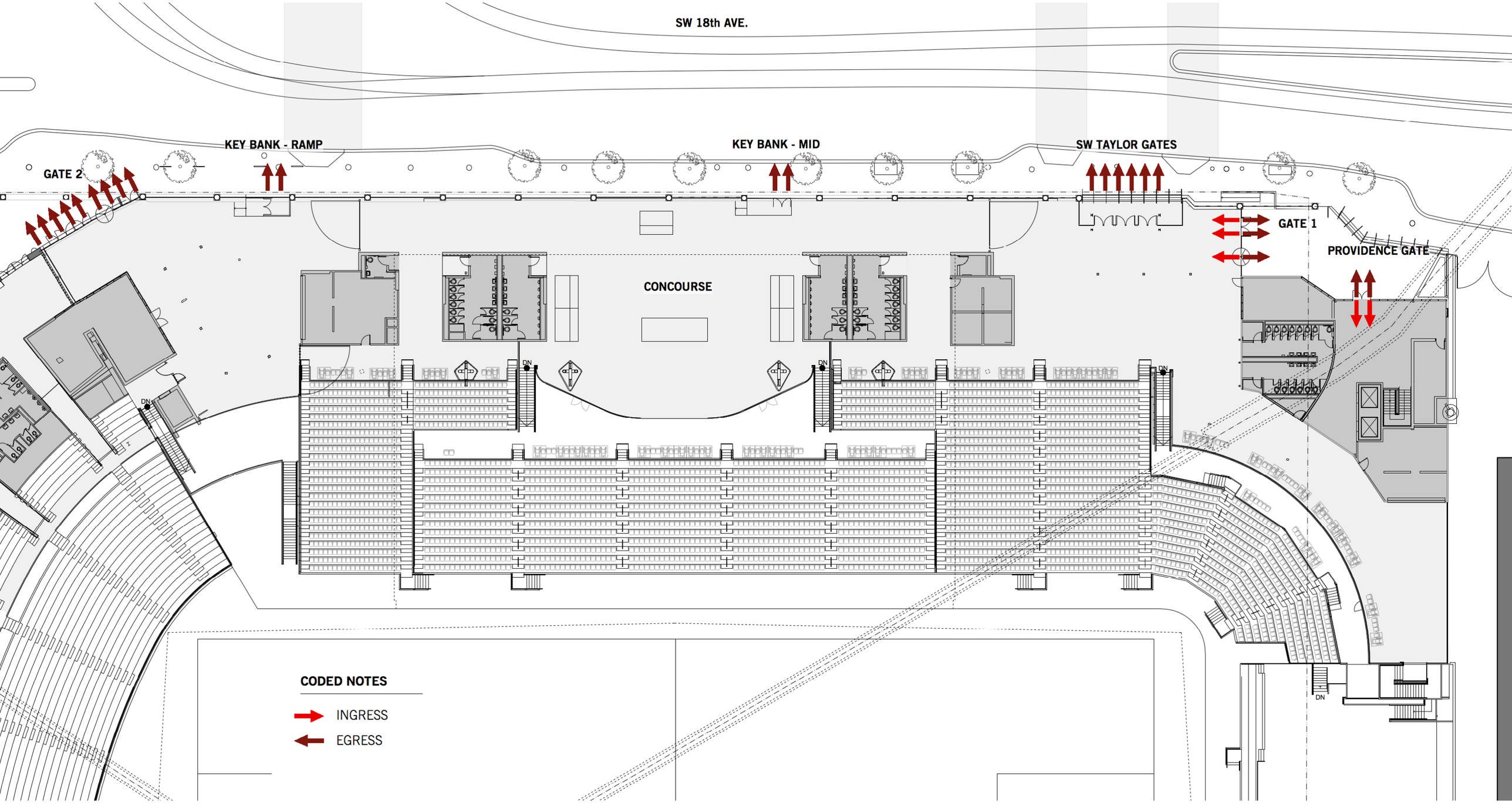
ACCEPTABLE SIGHTLINES
RETAIN EXISTING STREET LEVEL CONCESSIONS BUILDINGS AND ARTWORK



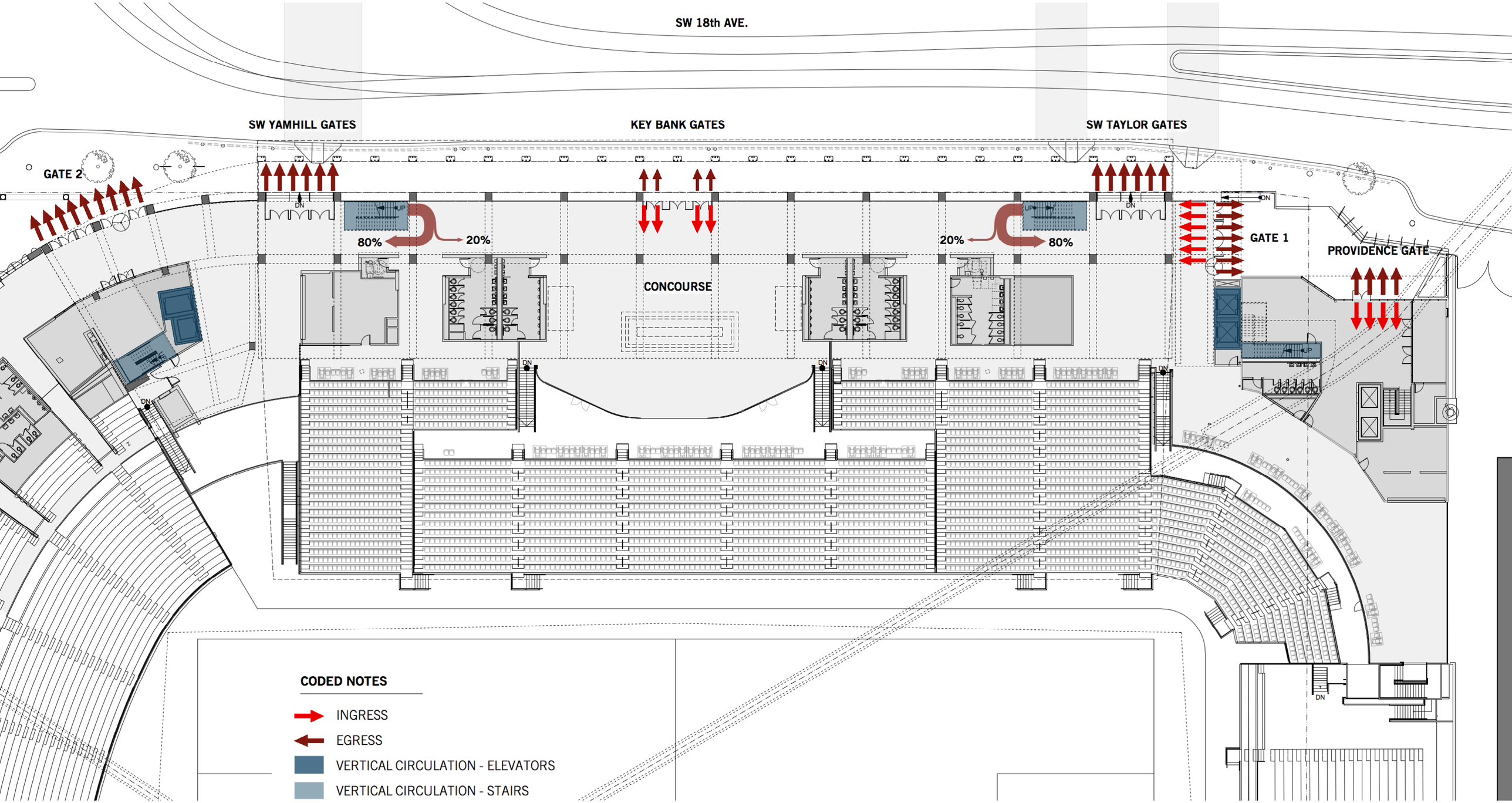
NON-ARCADED SCHEME

INEFFECTIVE SIGHTLINES
REMOVAL OF ALL EXISTING STREET LEVEL CONCESSIONS BUILDING

ARCADE VS. NON-ARCADE STUDY



CROWD MOVEMENT DIAGRAM - EXISTING



CROWD MOVEMENT DIAGRAM - NEW

AREA OF COVERED PUBLIC SIDEWALK

EXISTING VIEWS INTO STADIUM MAINTAINED

AREA OF STADIUM ACCESSIBLE TO PUBLIC ON NON-GAME DAYS

SW 18th AVE.

CROSSWALK

CROSSWALK

CROSSWALK

ARCADE

RETAIL

RETAIL

ELEV 2

ELEV 1

STAIR 1

EXST. SERV. ELEV.

DN

STAIRS

UP

PRESERVED ARTWORK

PRESERVED ARTWORK

ALL USER

(E) CONCESSIONS

(E) WOMEN

(E) MEN

CONCOURSE FFE. +0'-0"

BAR (BEER & WINE)

(E) MEN

(E) WOMEN

ALL USER

WOMEN

CONCESSIONS

KEY BANK CLUB TERRACE

ELEV 3

ELEV 4

ELEVATORS UP

MECH.

STAIR 4

UP

CLUB LOBBY

RETAIL

RECONFIGURED RESTROOMS

ELEVATORS DOWN

STORAGE

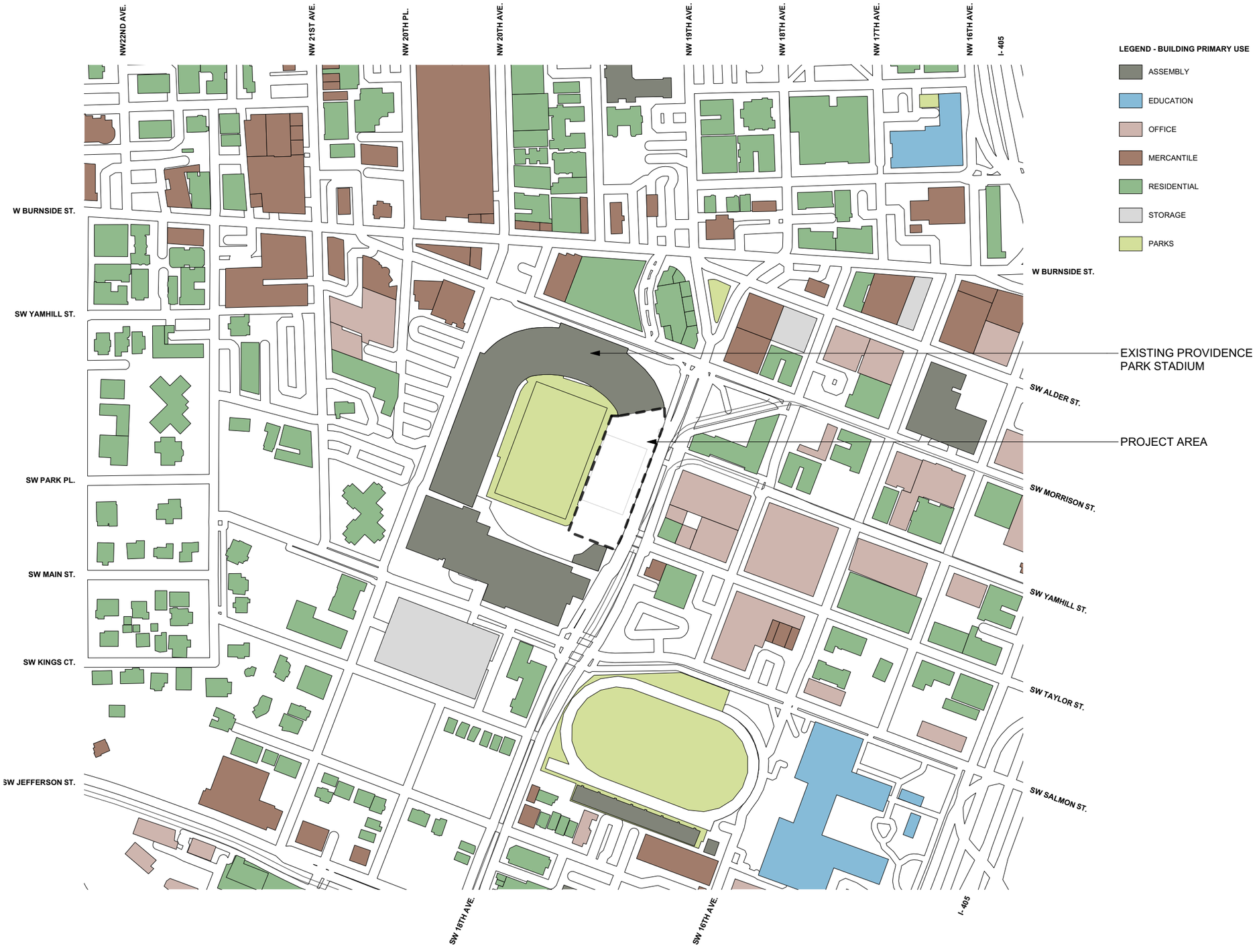
(E) CONCESSION (3 POS)

DN

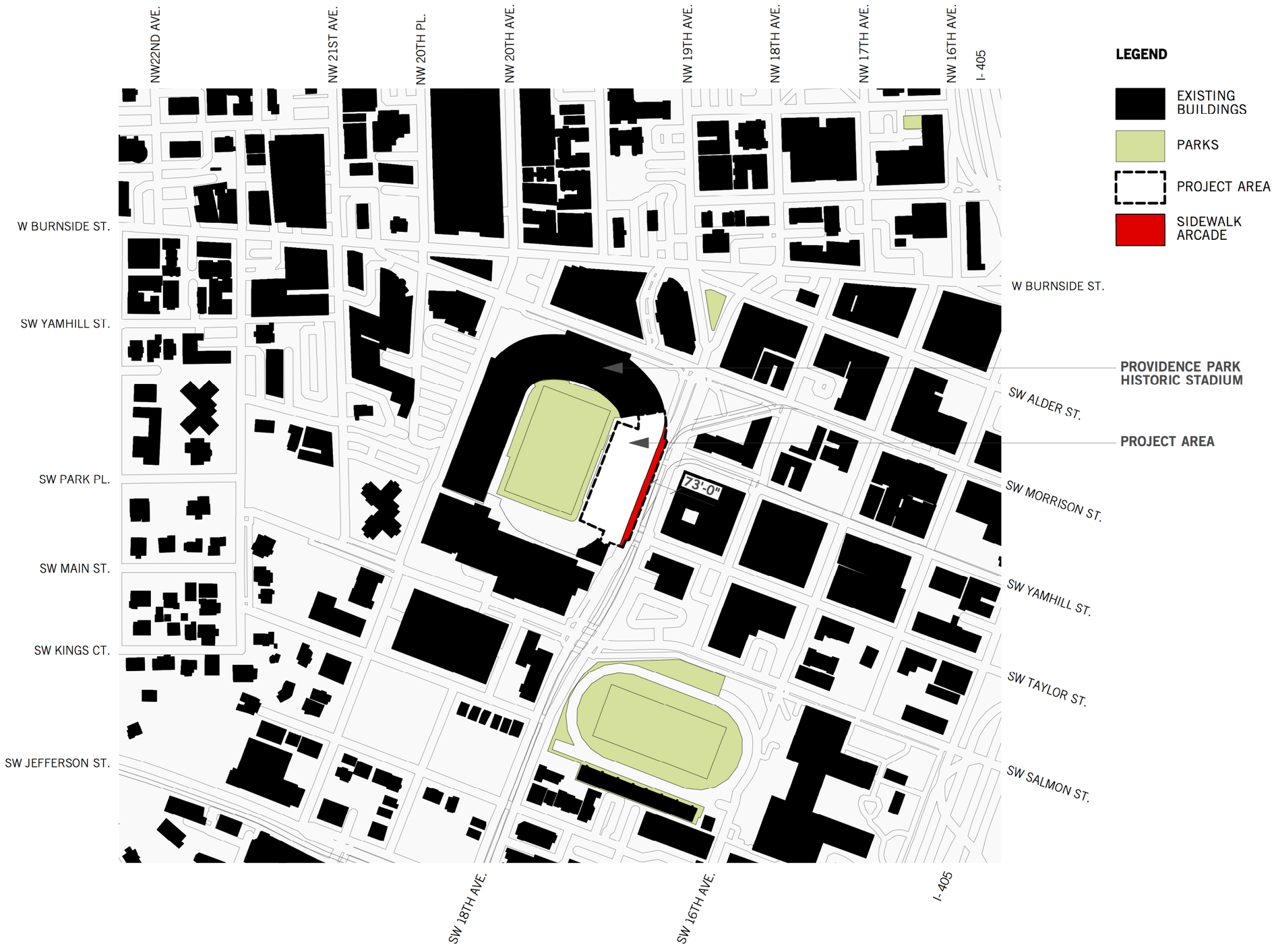
PUBLIC AMENITIES DIAGRAM

VIEW FROM SW TAYLOR

FIELD VIEW

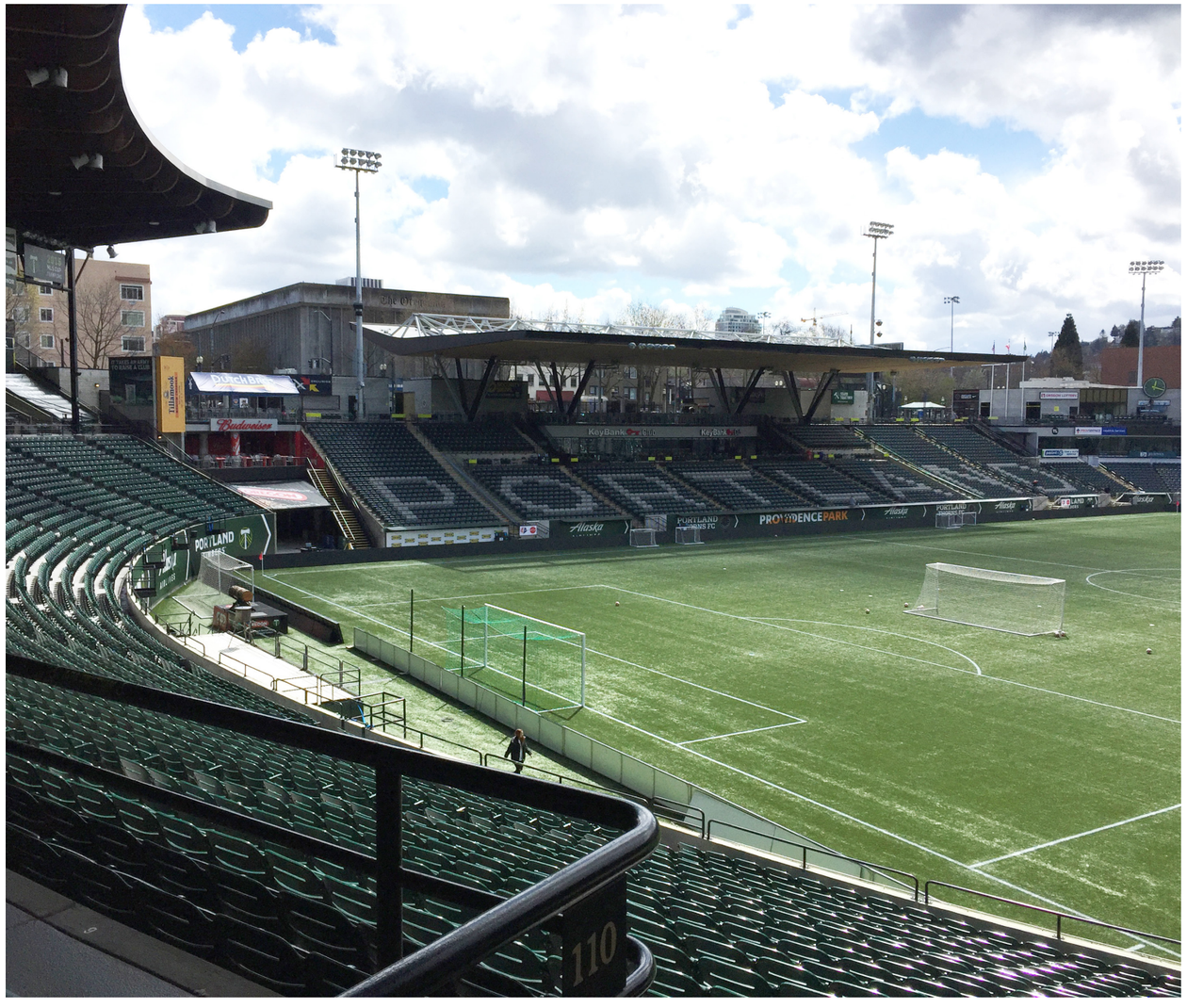


VICINITY PLAN

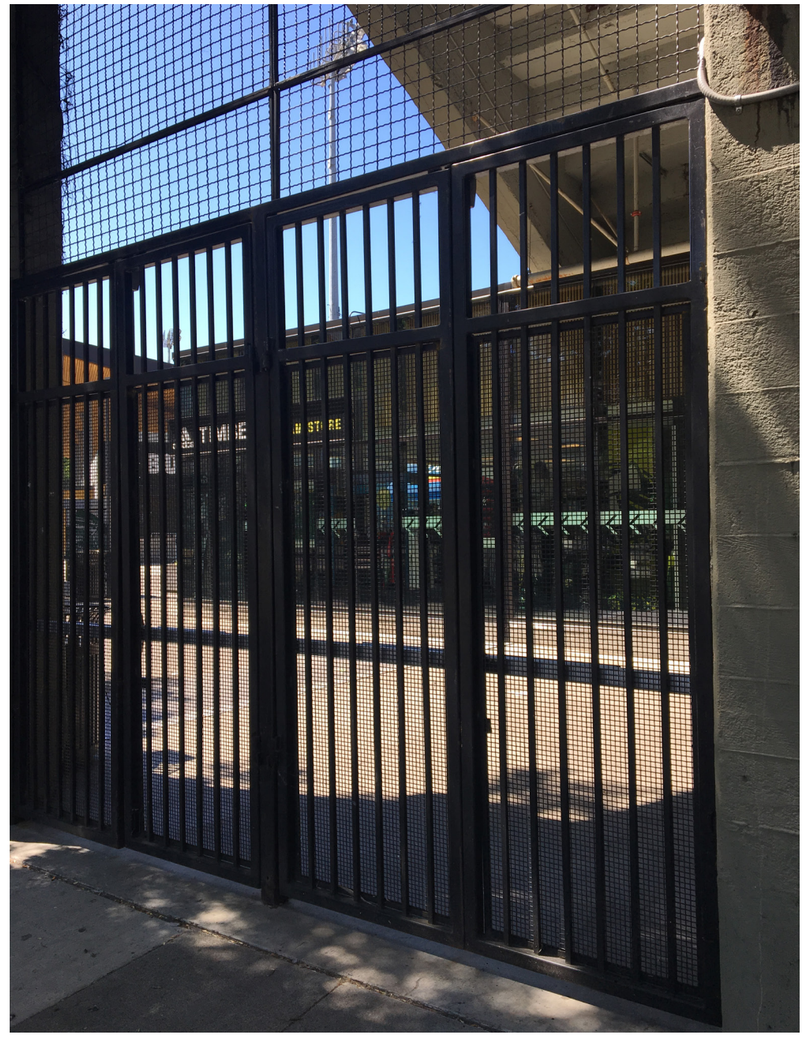


OPEN SPACE DIAGRAM

HISTORIC STADIUM IMAGES



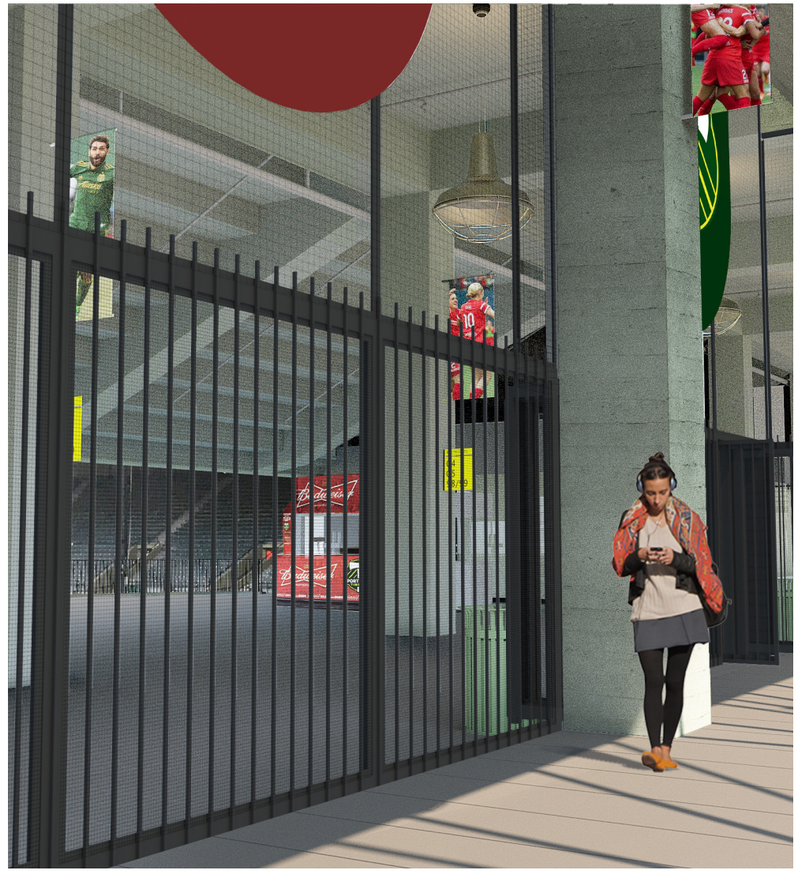
2011 STADIUM EXPANSION IMAGES



EXISTING FENCE PHOTOS

ALTERNATE B FENCE DESIGN

ALTERNATE A FENCE DESIGN



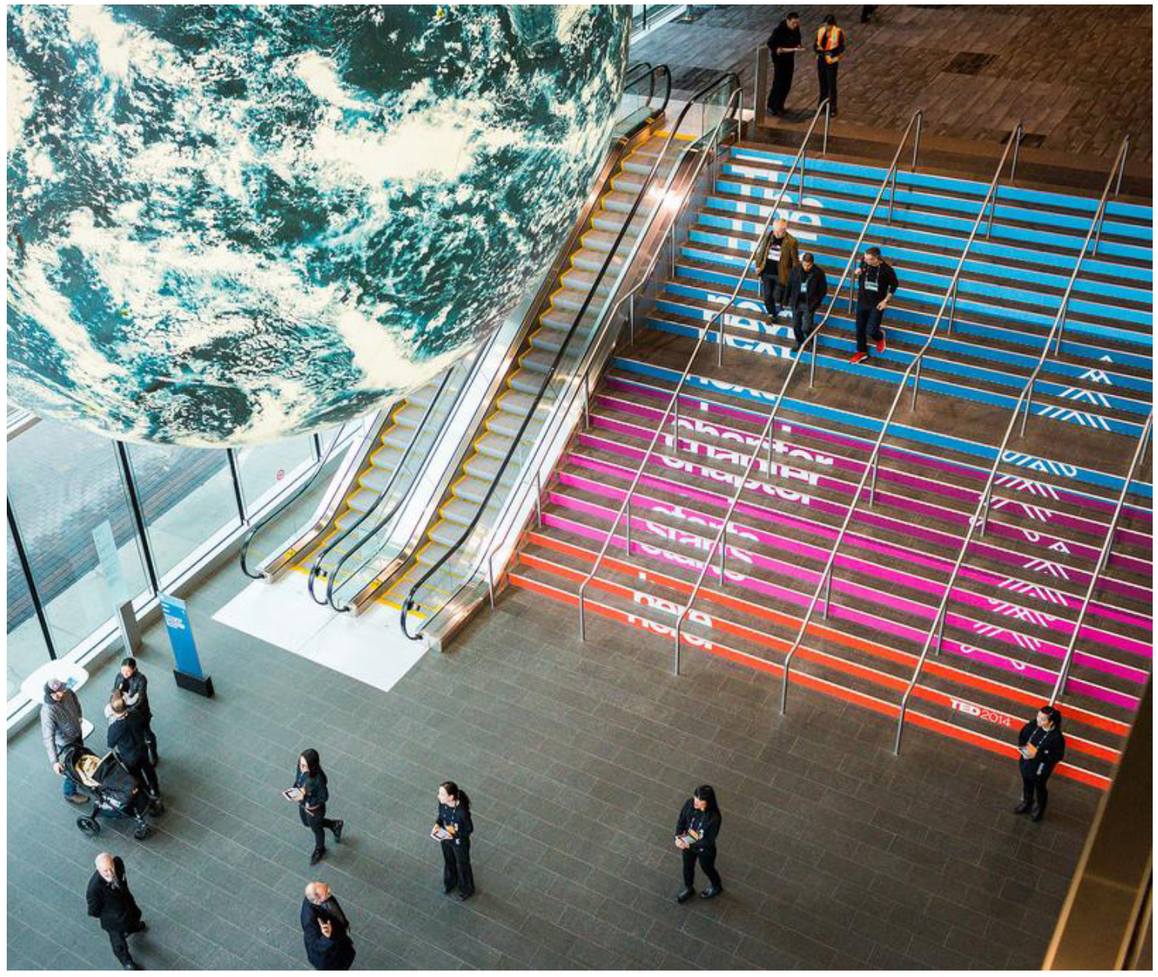
PROPOSED FENCE DESIGN

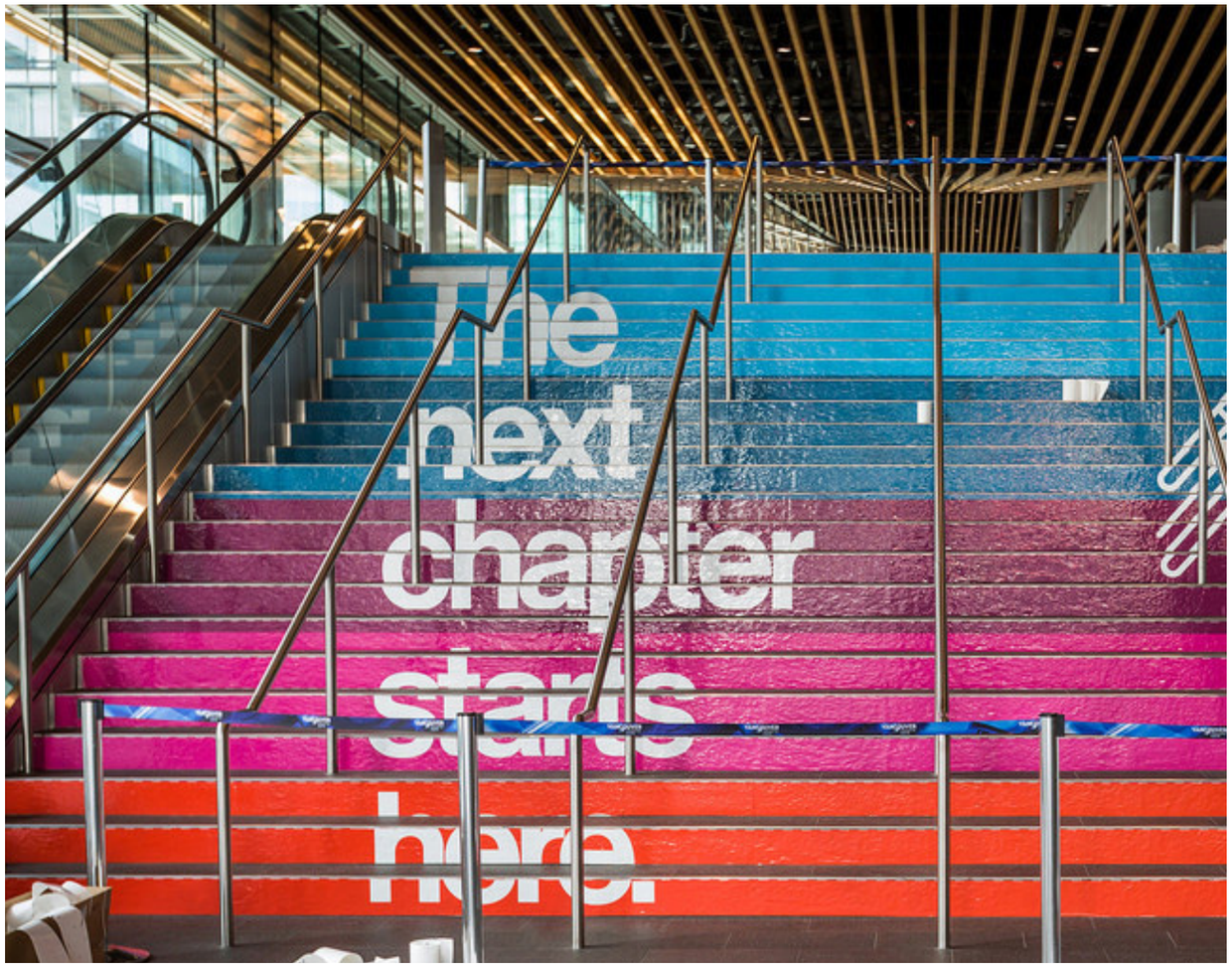
FENCE STUDIES

HISTORIC STADIUM CONCOURSE IMAGES

RAKER FINISH TREATMENT - EXPOSED CONCRETE

RAKER FINISH TREATMENT - WOOD





RAKER FINISH TREATMENT - GRAPHICS

RAKER FINISH TREATMENT - GRAPHICS

RAKER FINISH TREATMENT - GRAPHICS

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