

PROVIDENCE PARK STADIUM EXPANSION
DESIGN REVIEW SUBMISSION

ALLIED WORKS ARCHITECTURE
20 JULY 2017



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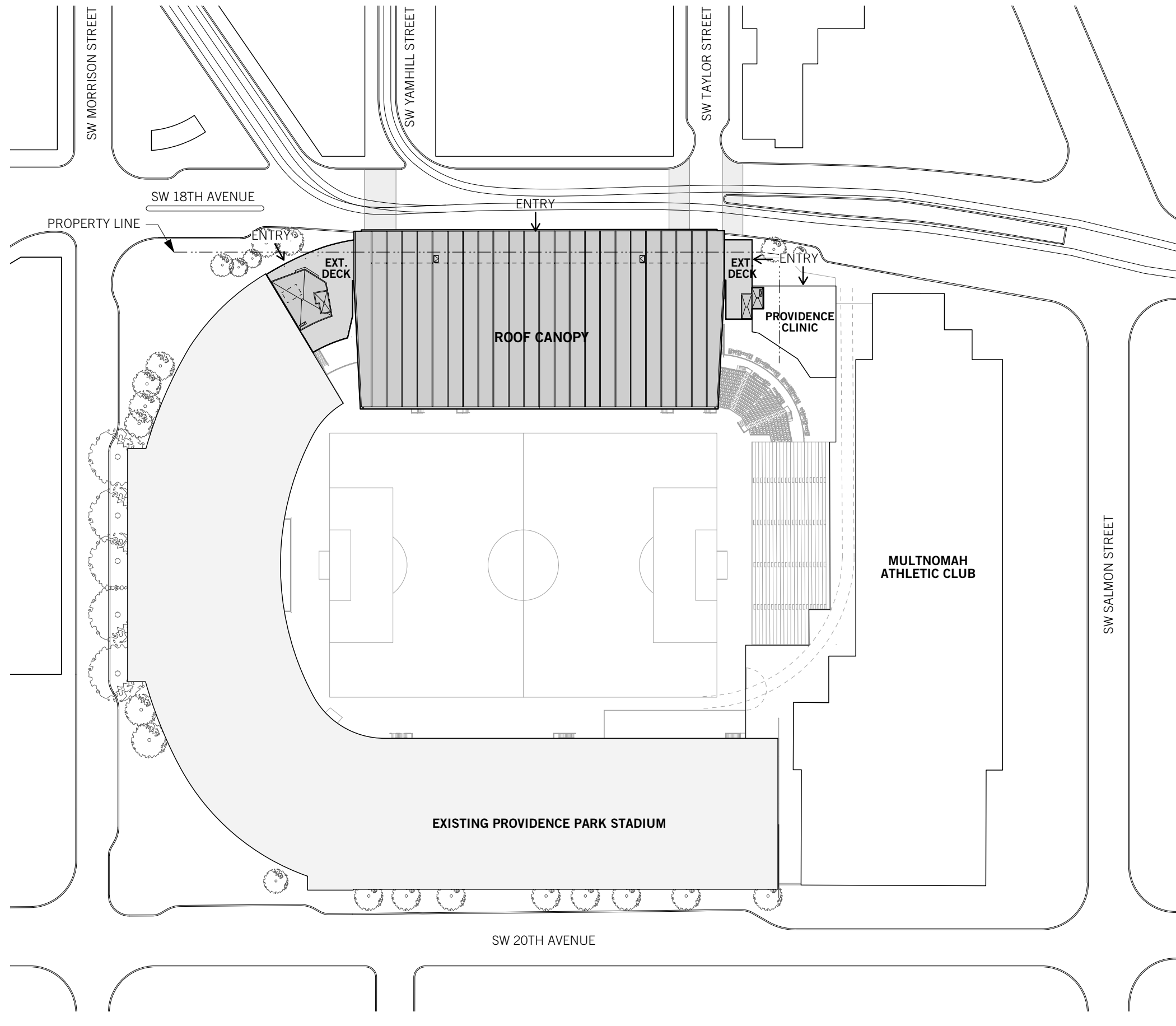
APP.35 EXPANSION RAKER FINISH TREATMENT OPTIONS

APP.36 EXPANSION RAKER FINISH TREATMENT OPTIONS

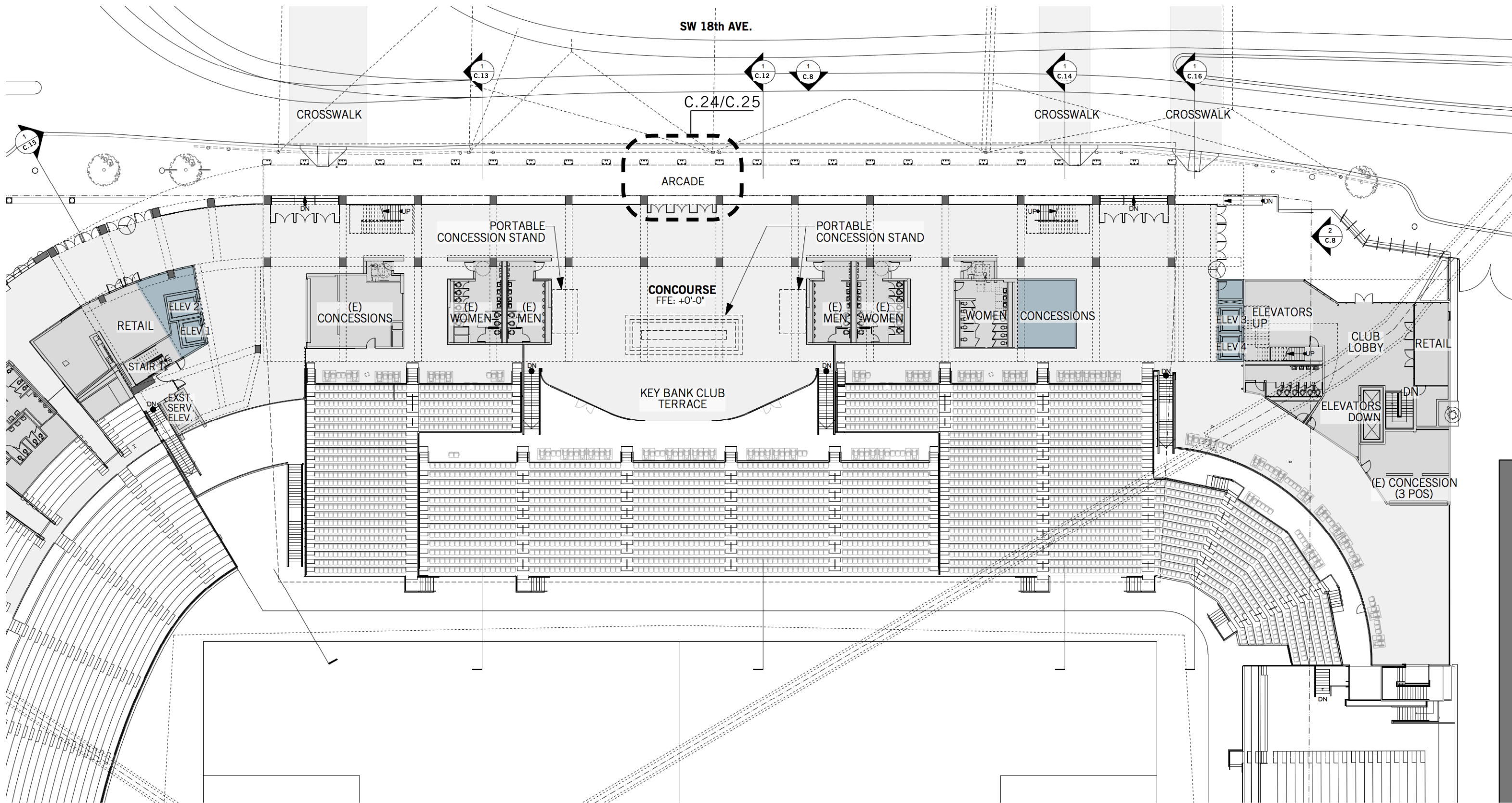
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ARCHITECTURAL DRAWINGS - “C” EXHIBITS

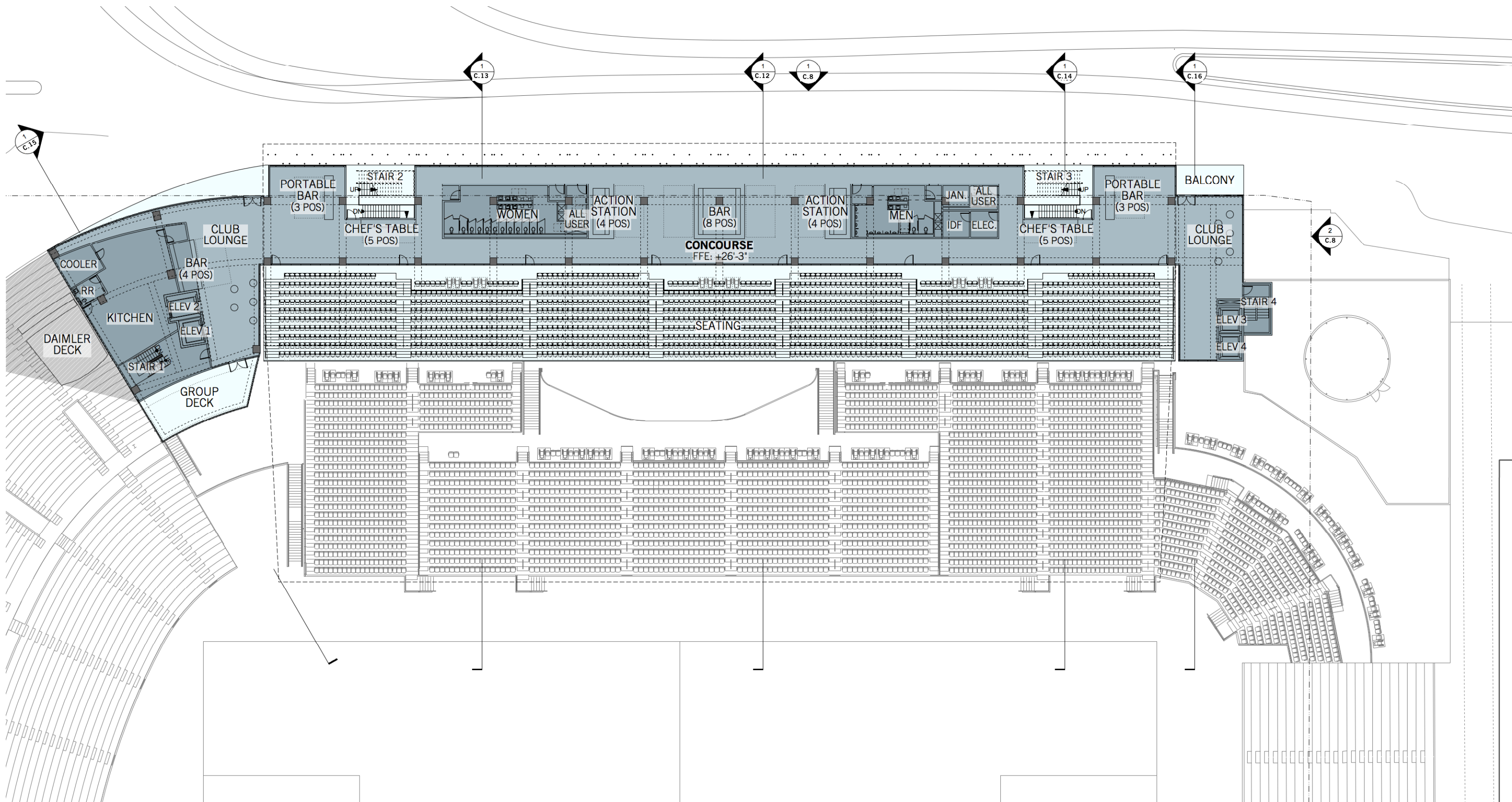




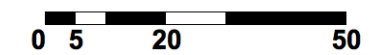
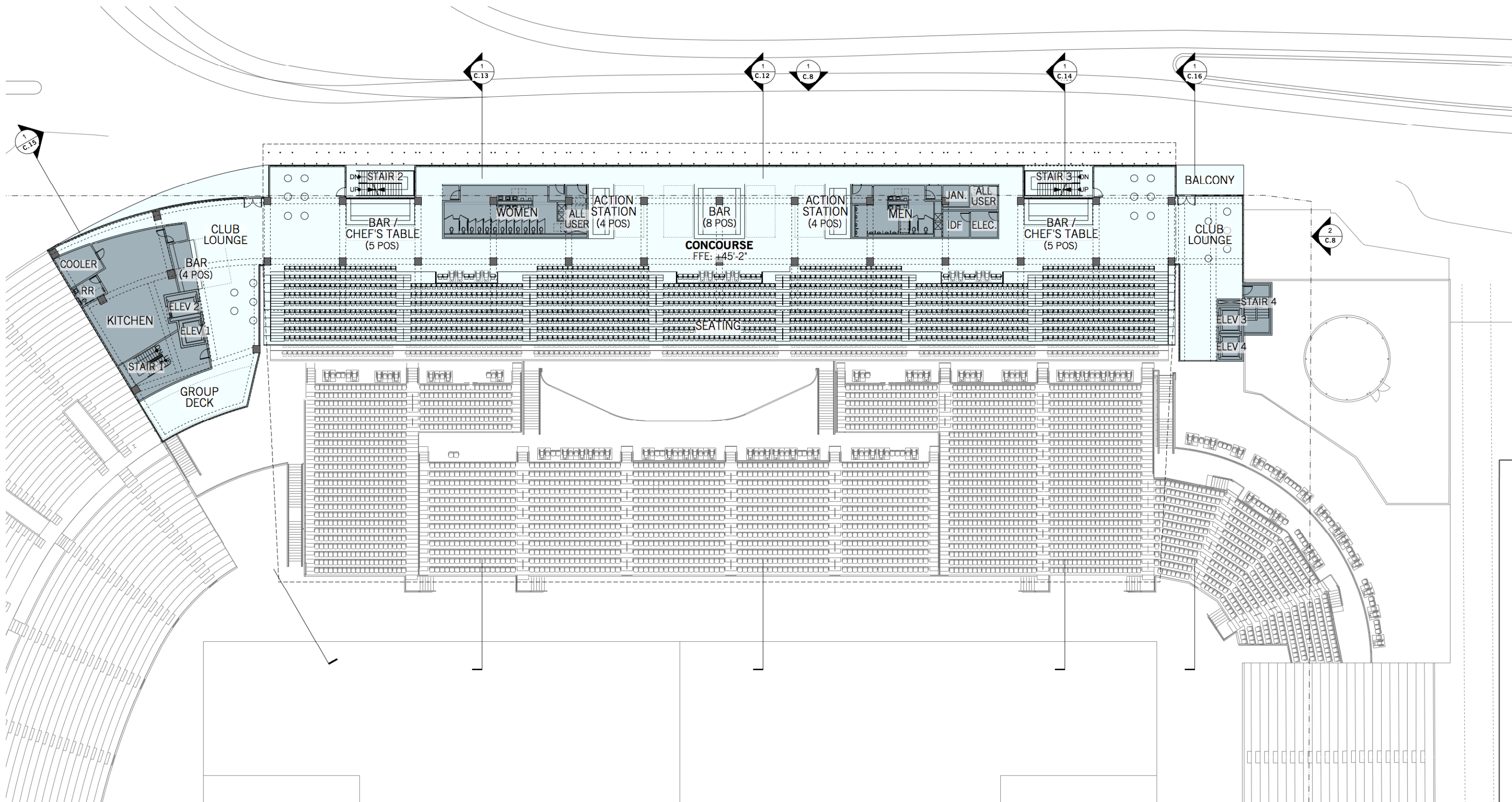
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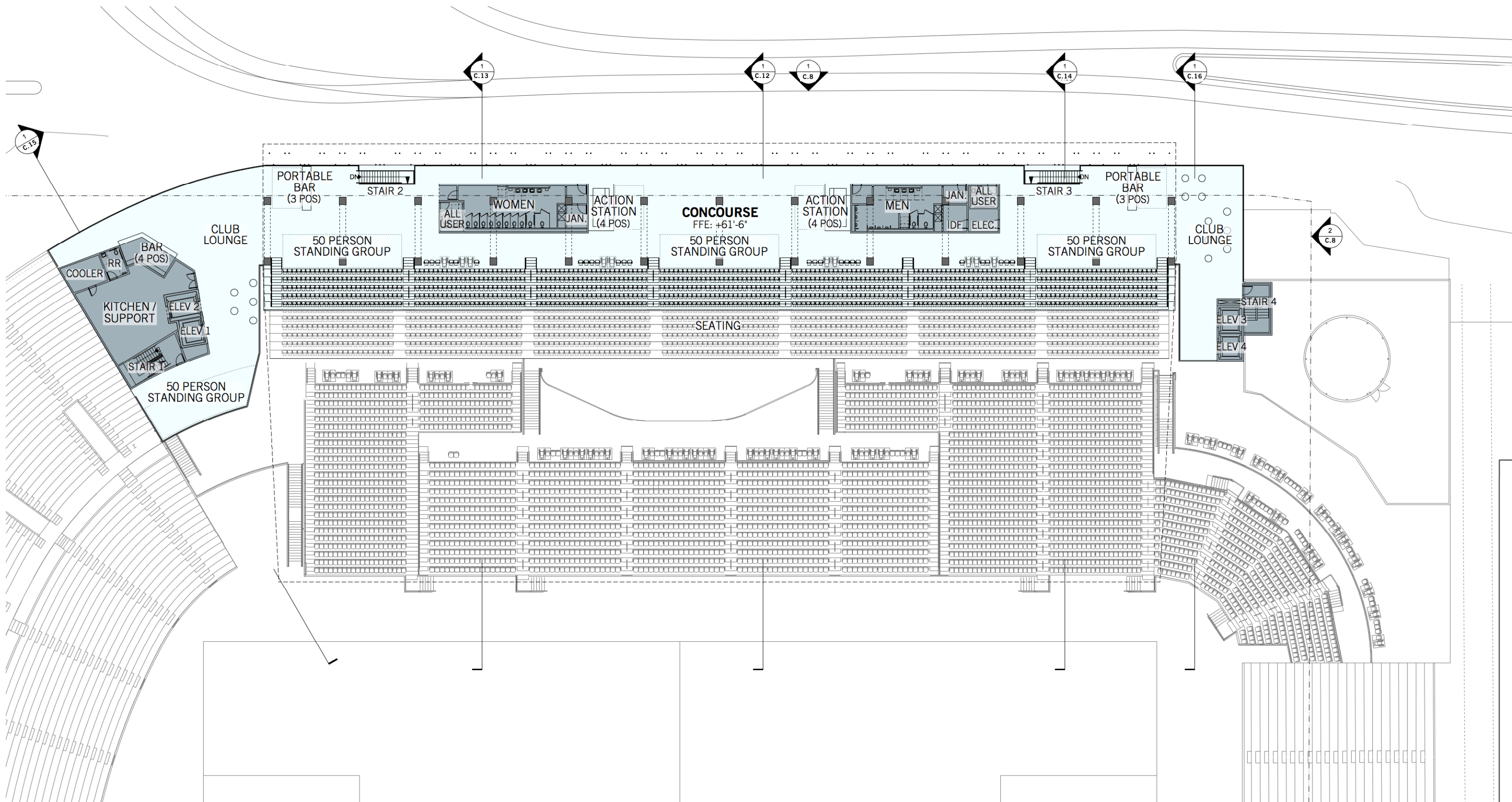
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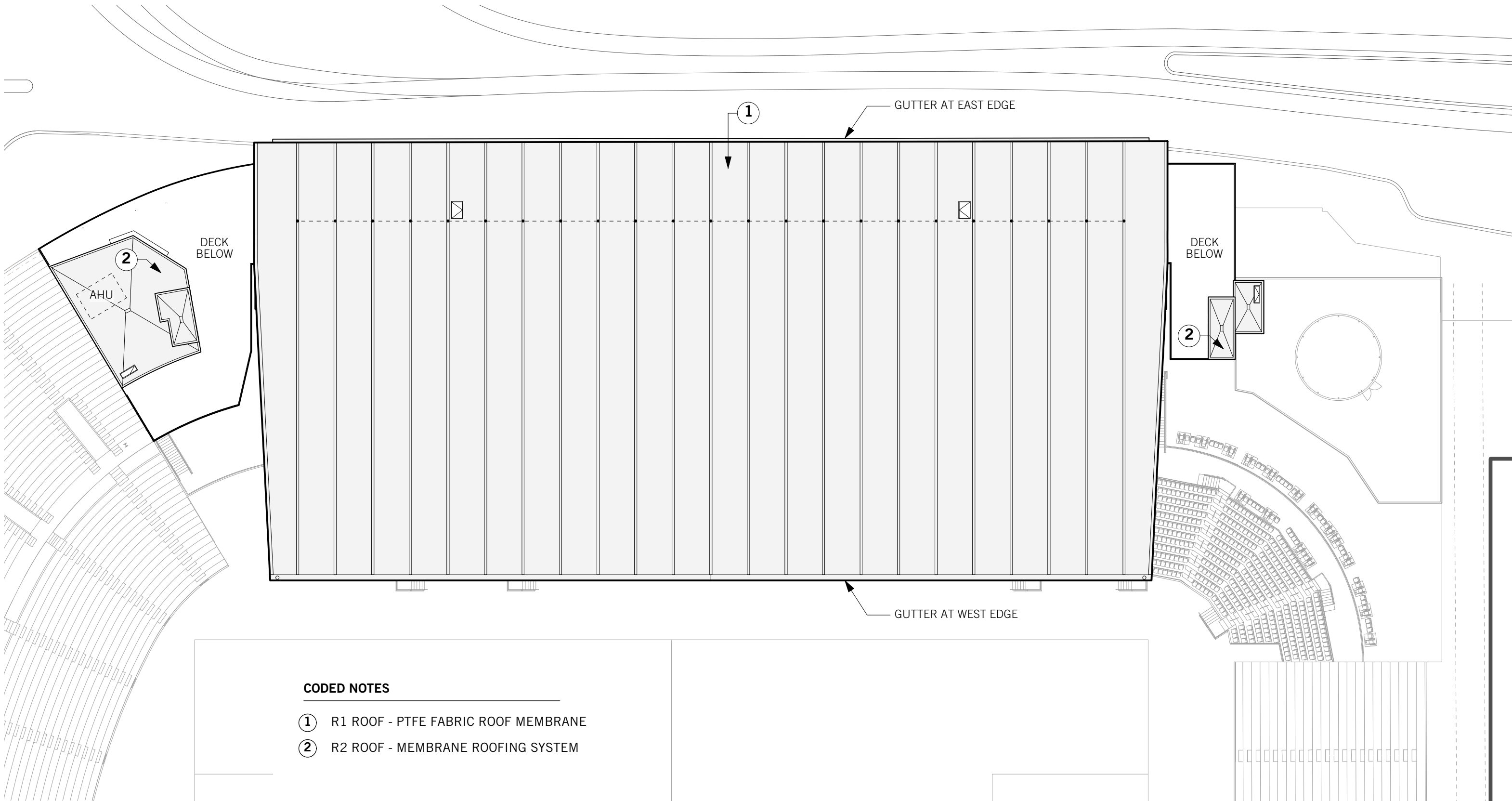
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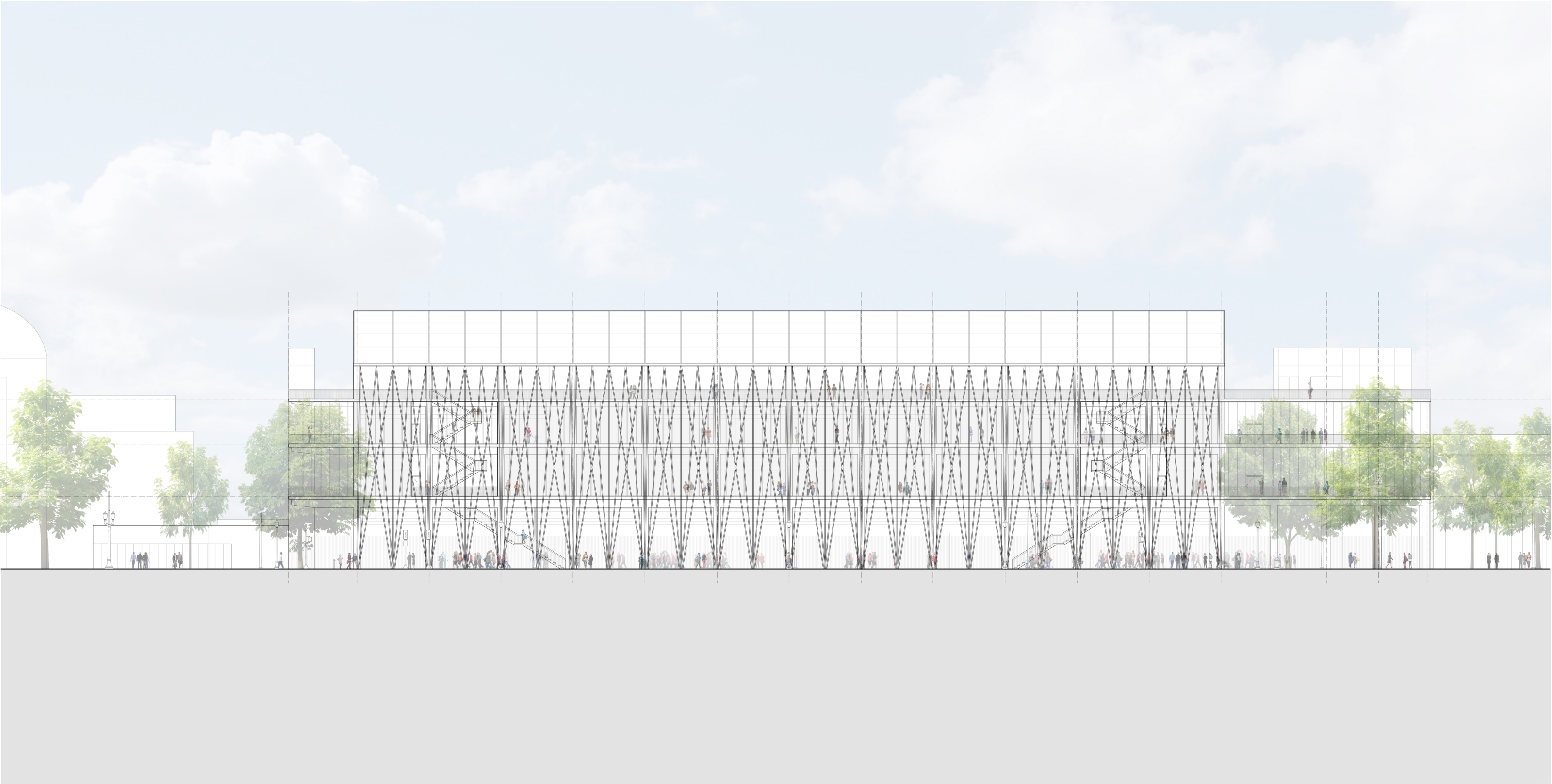


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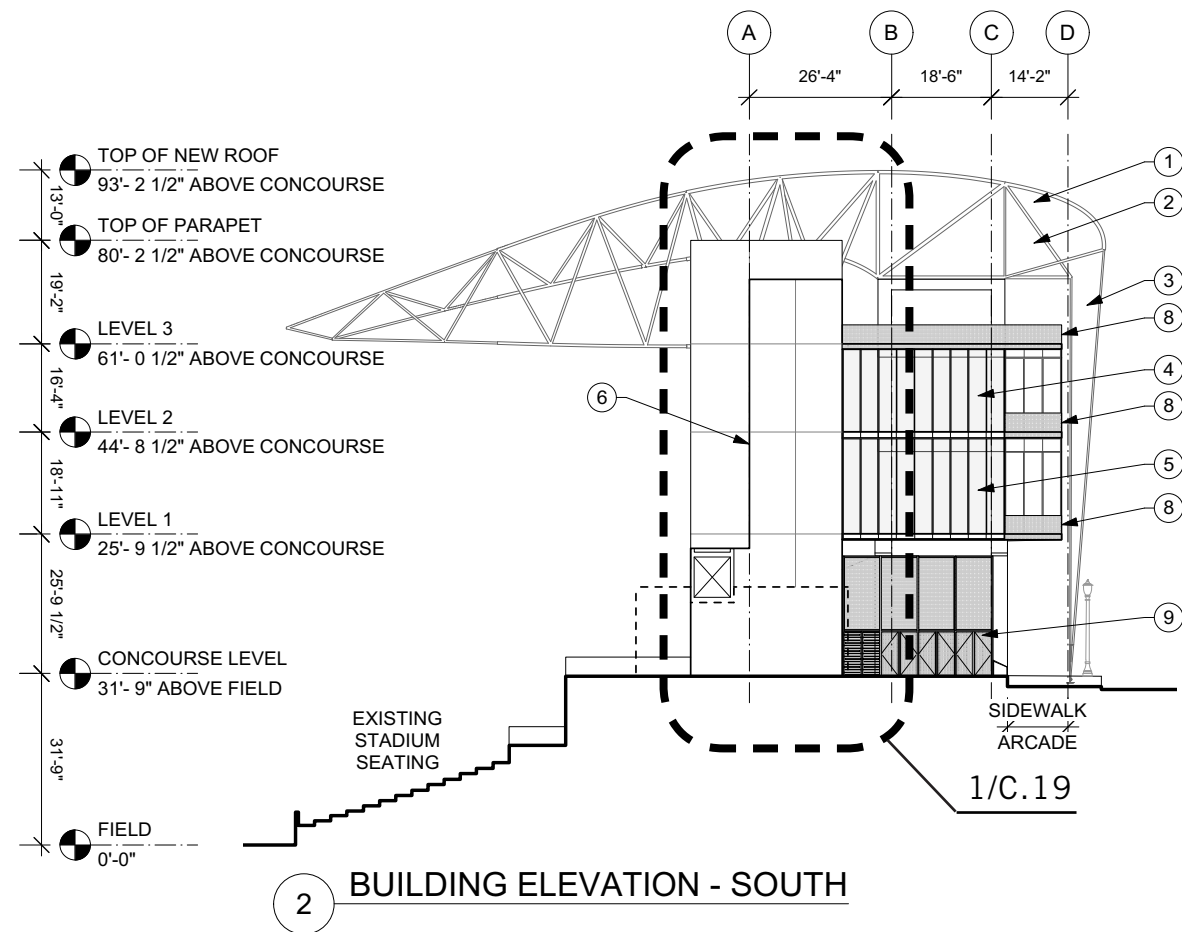


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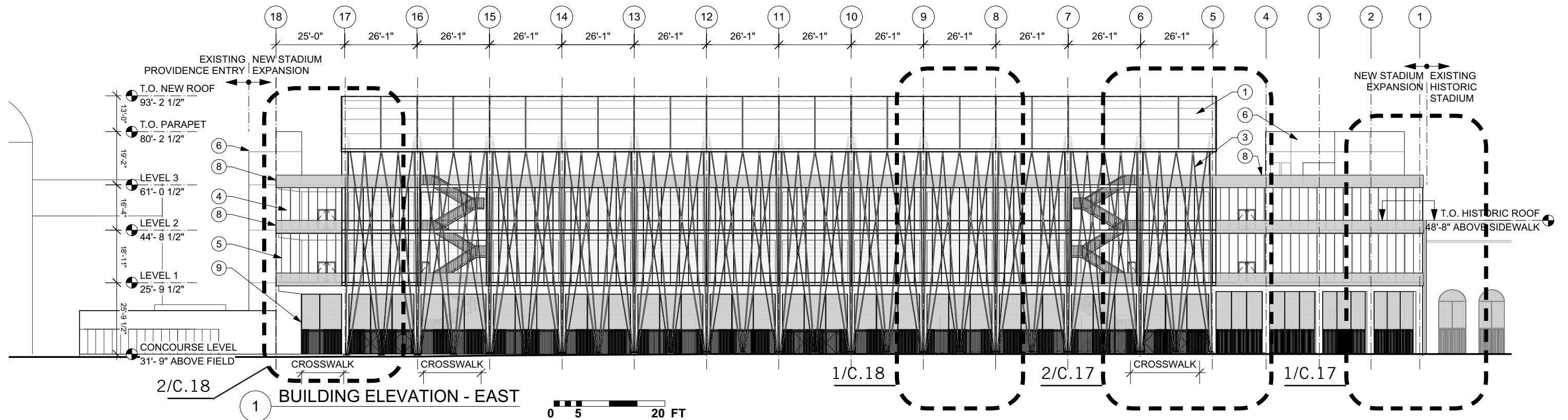


RENDERED SW 18TH AVE ELEVATION



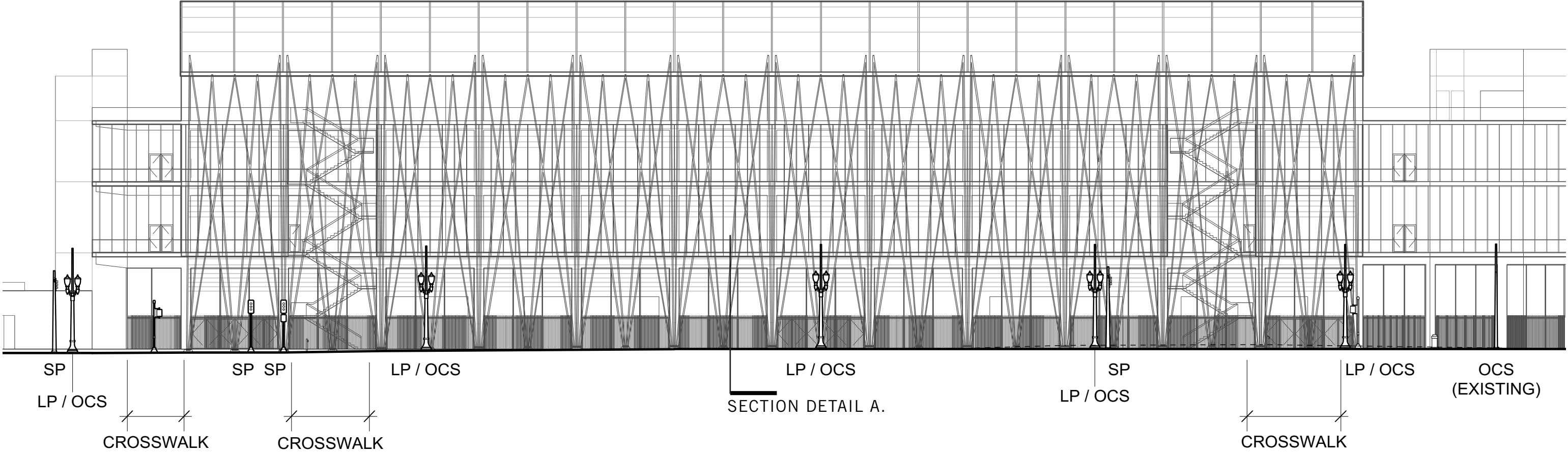
CODED NOTES

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

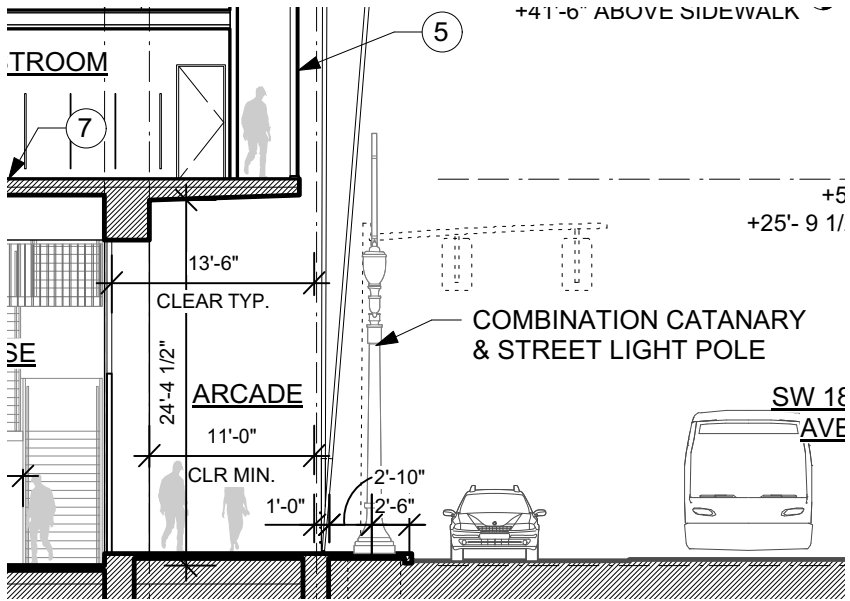


PROS:

- 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.

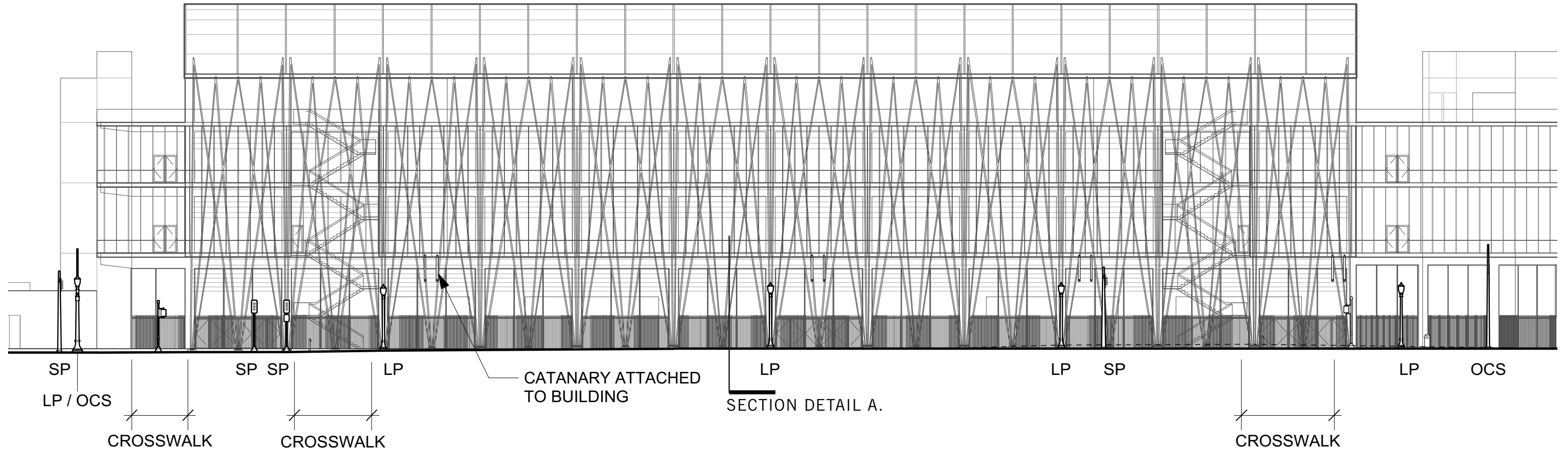
STREET UTILITIES LEGEND

- 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

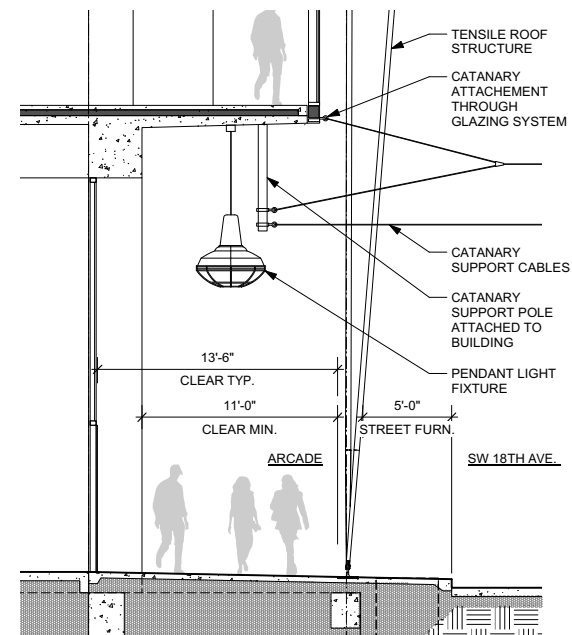


PROS:

- 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



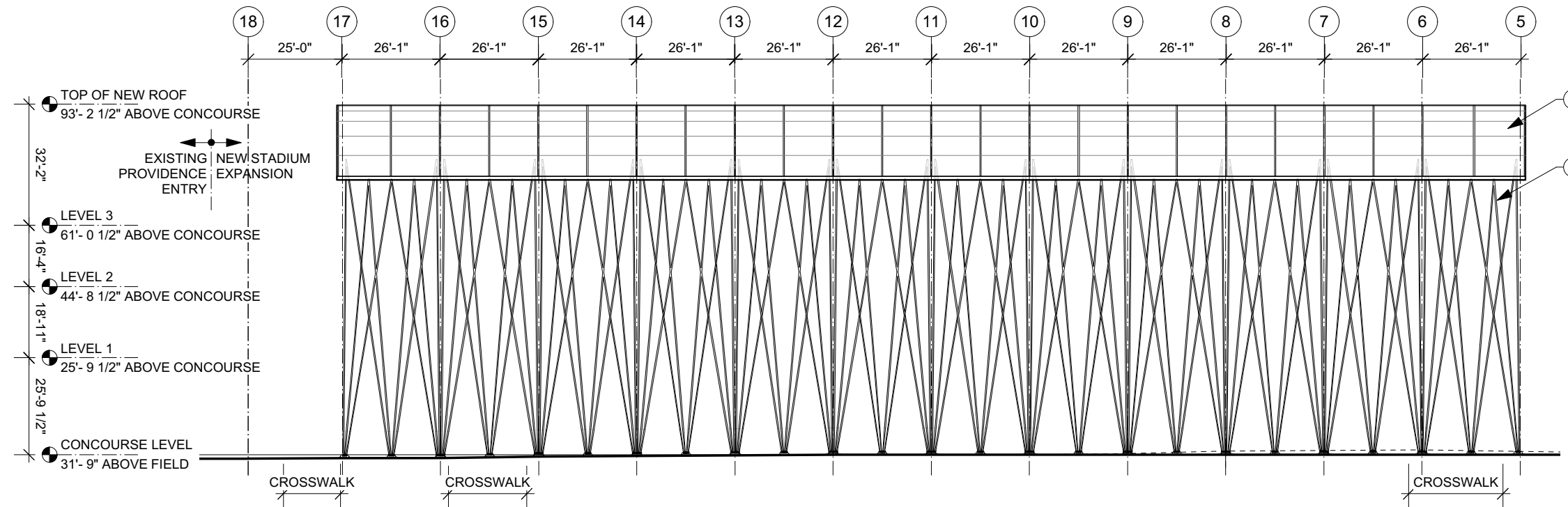
SECTION DETAIL A.

STREET UTILITIES LEGEND

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



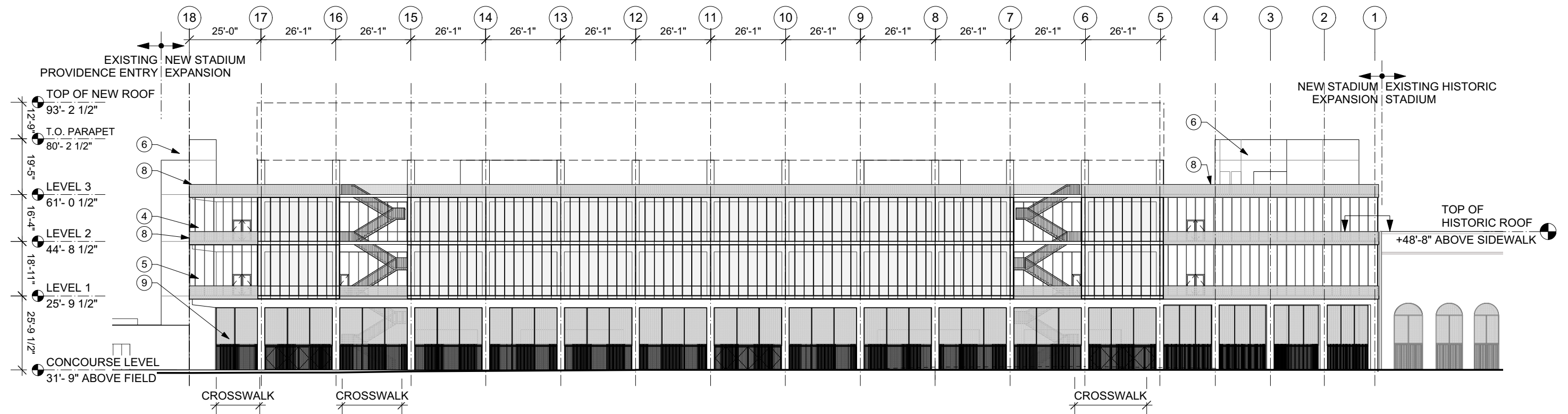
SW 18TH STREET ELEVATION - STREET FURNISHINGS



2 BUILDING ELEVATION - STEEL TENSILE ARCADE STRUCTURE

CODED NOTES

1. R1 - PTFE FABRIC MEMBRANE ROOF
2. STEEL TRUSS ROOF STRUCTURE, PTD FINISH
3. TENSILE STEEL ROOF SUPPORT STRUCTURE, PTD FINISH
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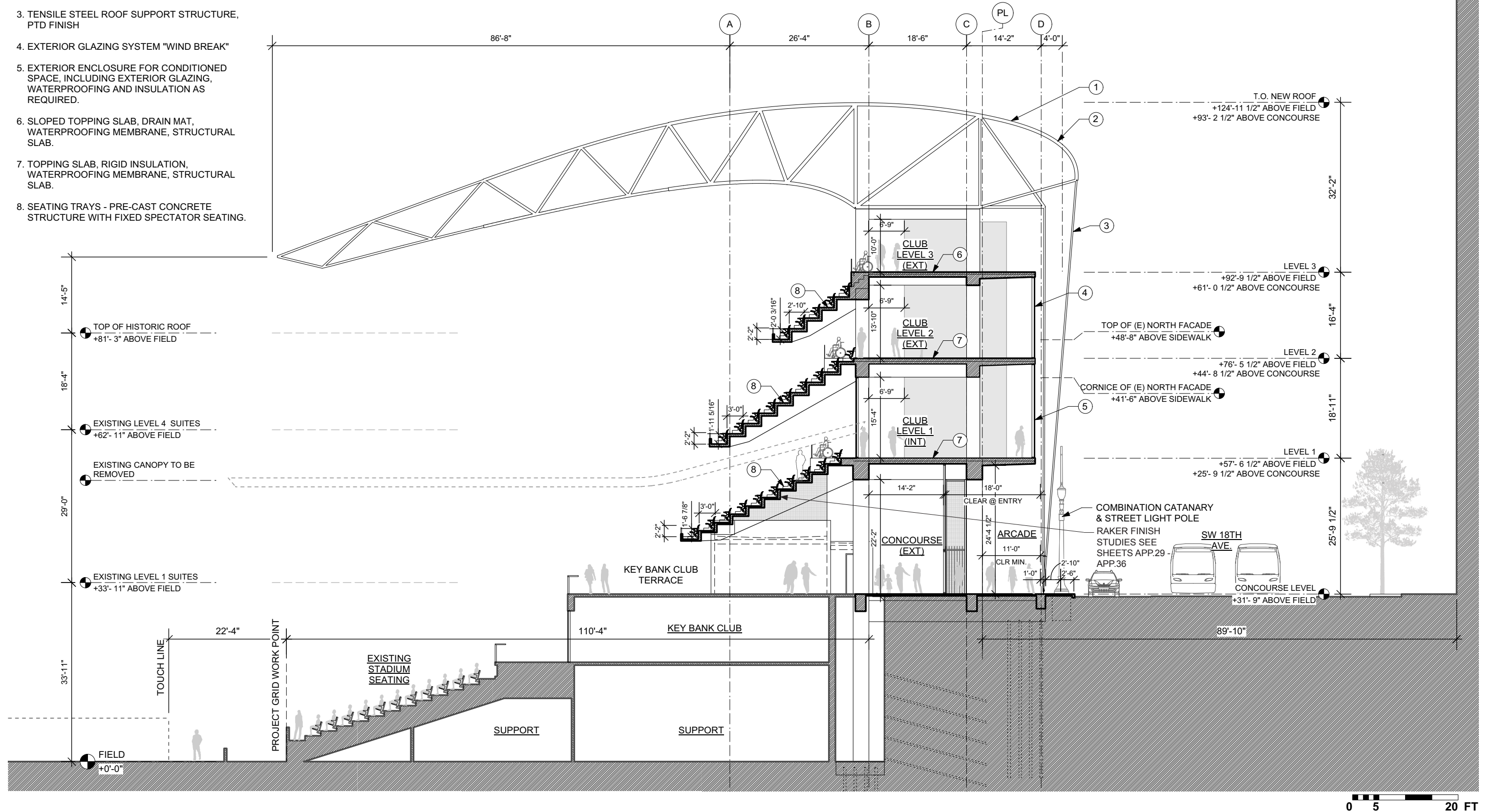
1 BUILDING ELEVATION - ARCADE W/ARCADE STRUCTURE HIDDEN

0 5 20 FT

BUILDING ELEVATIONS

CODED NOTES

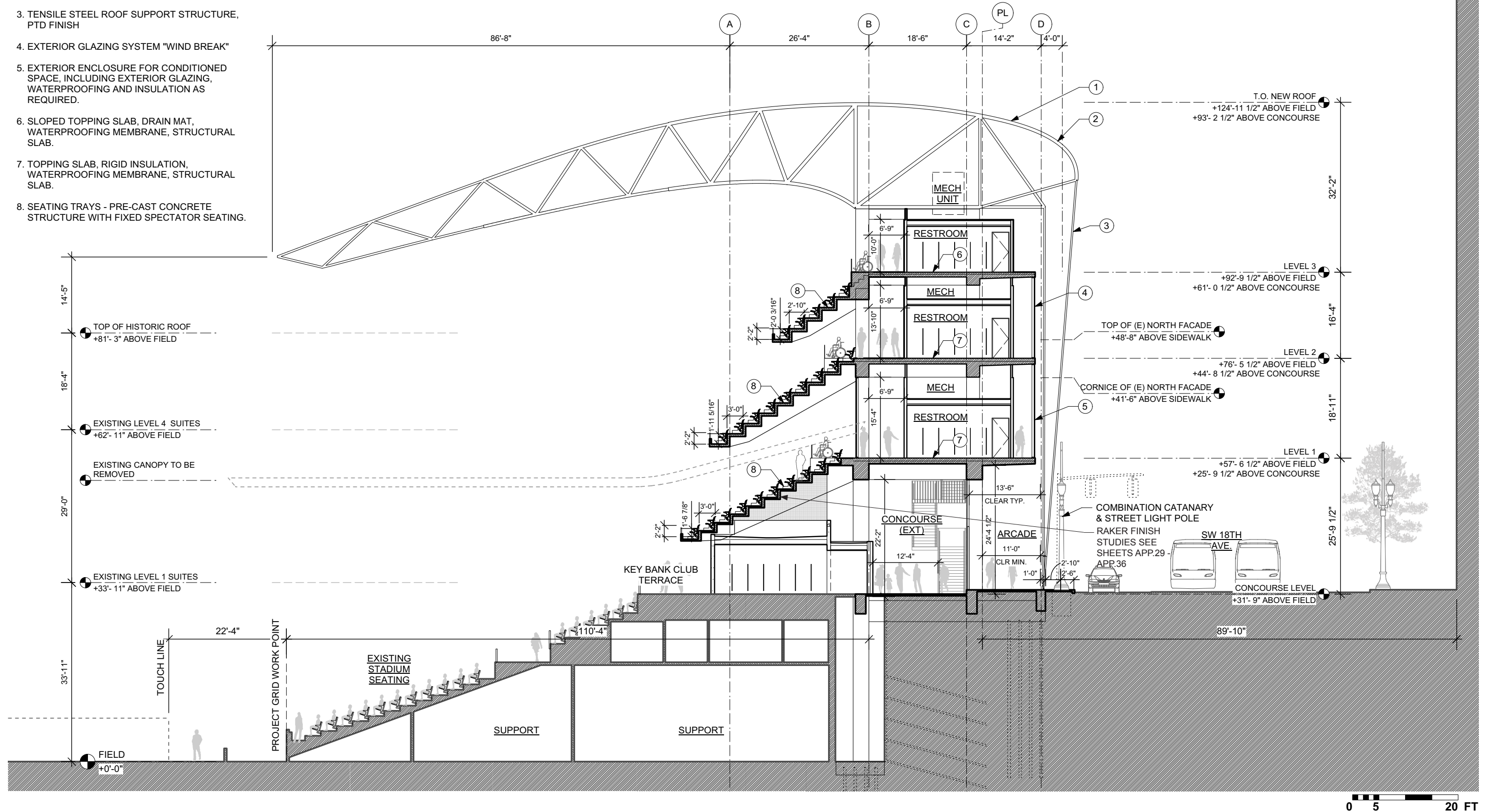
1. R1 - PTFE FABRIC MEMBRANE ROOF
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3. TENSILE STEEL ROOF SUPPORT STRUCTURE, PTD FINISH
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5. EXTERIOR ENCLOSURE FOR CONDITIONED SPACE, INCLUDING EXTERIOR GLAZING, WATERPROOFING AND INSULATION AS REQUIRED.
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

1. R1 - PTFE FABRIC MEMBRANE ROOF
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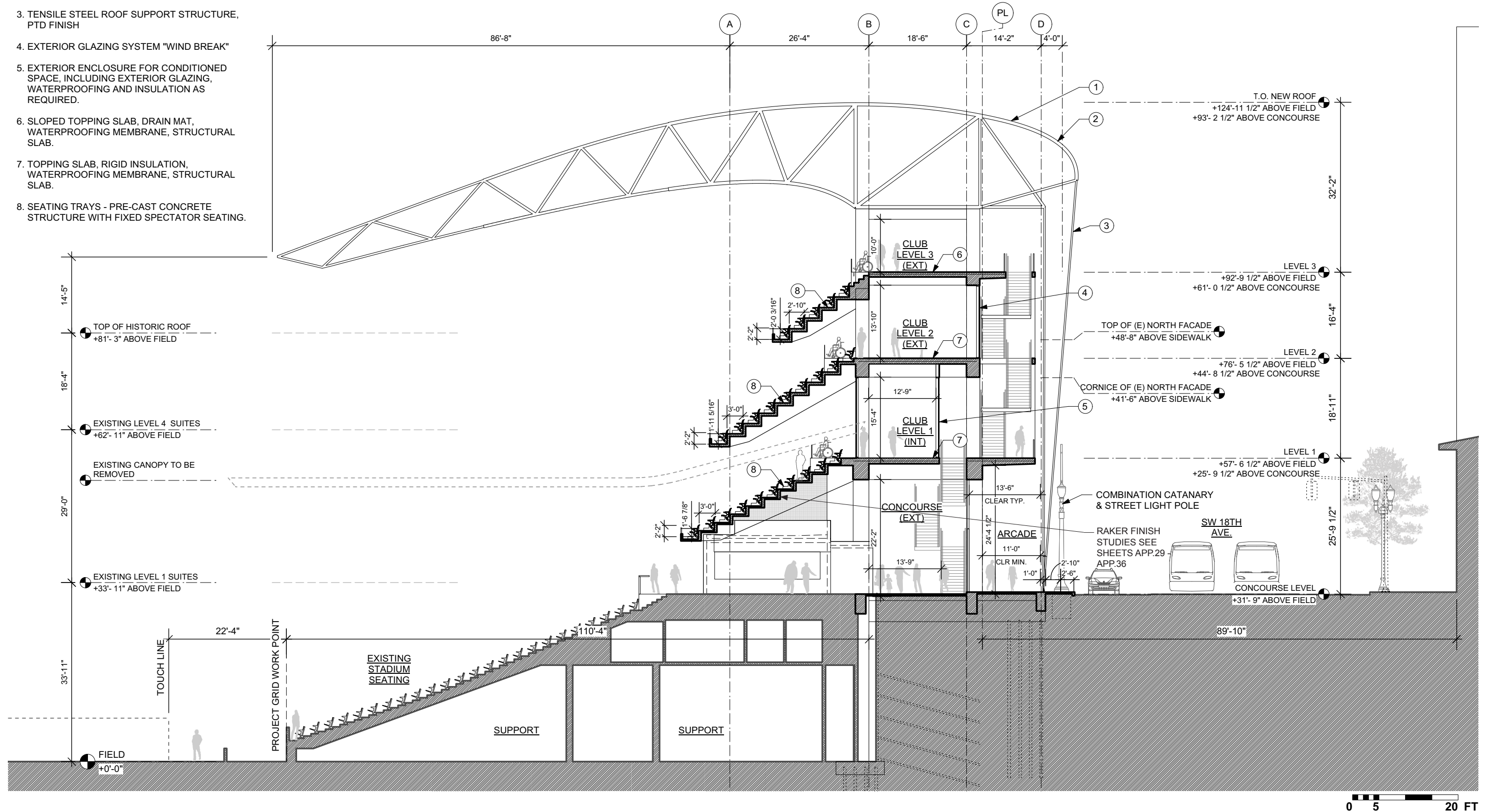


0 5 20 FT

BUILDING SECTION

CODED NOTES

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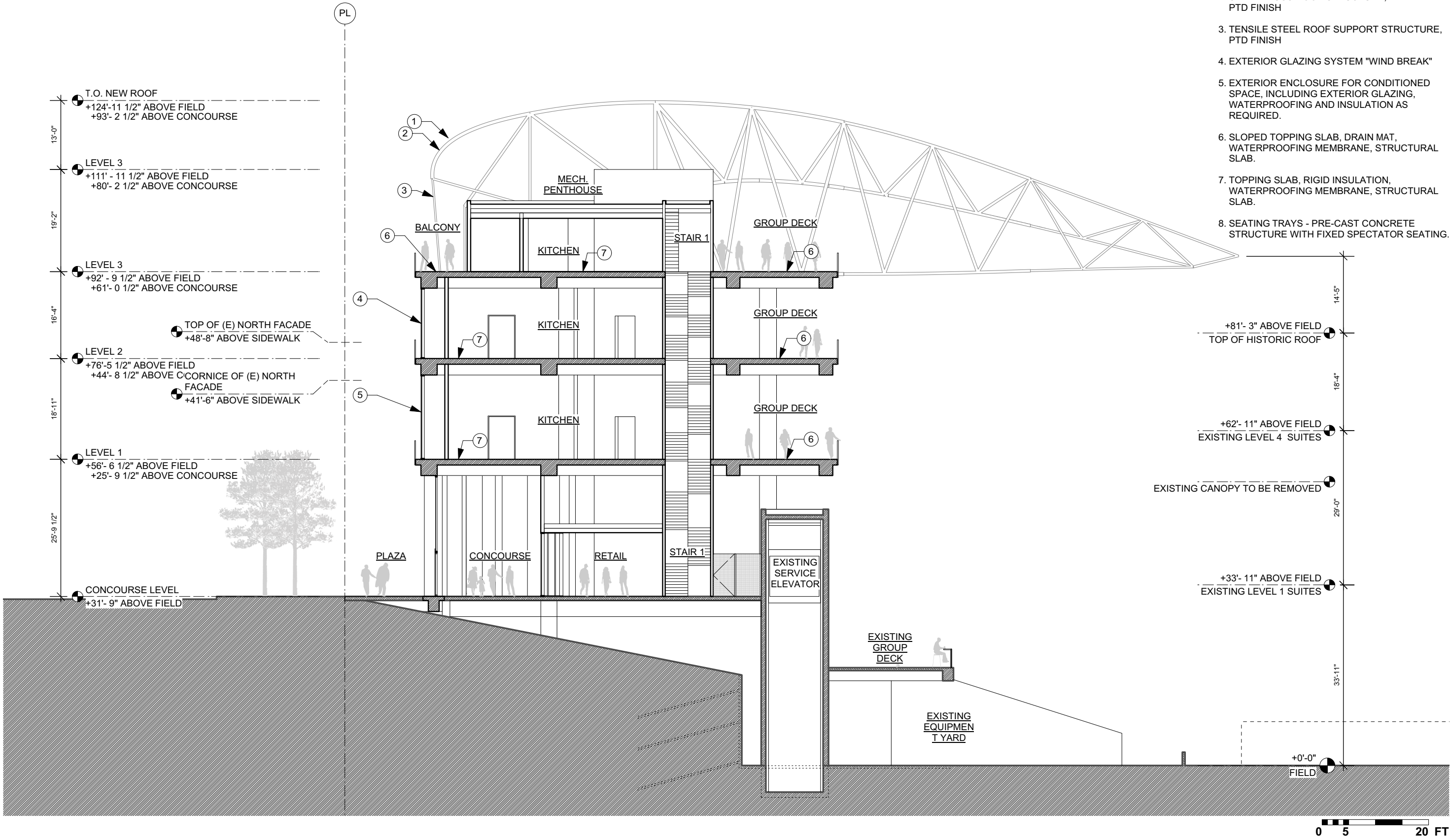


0 5 20 FT

BUILDING SECTION

CODED NOTES

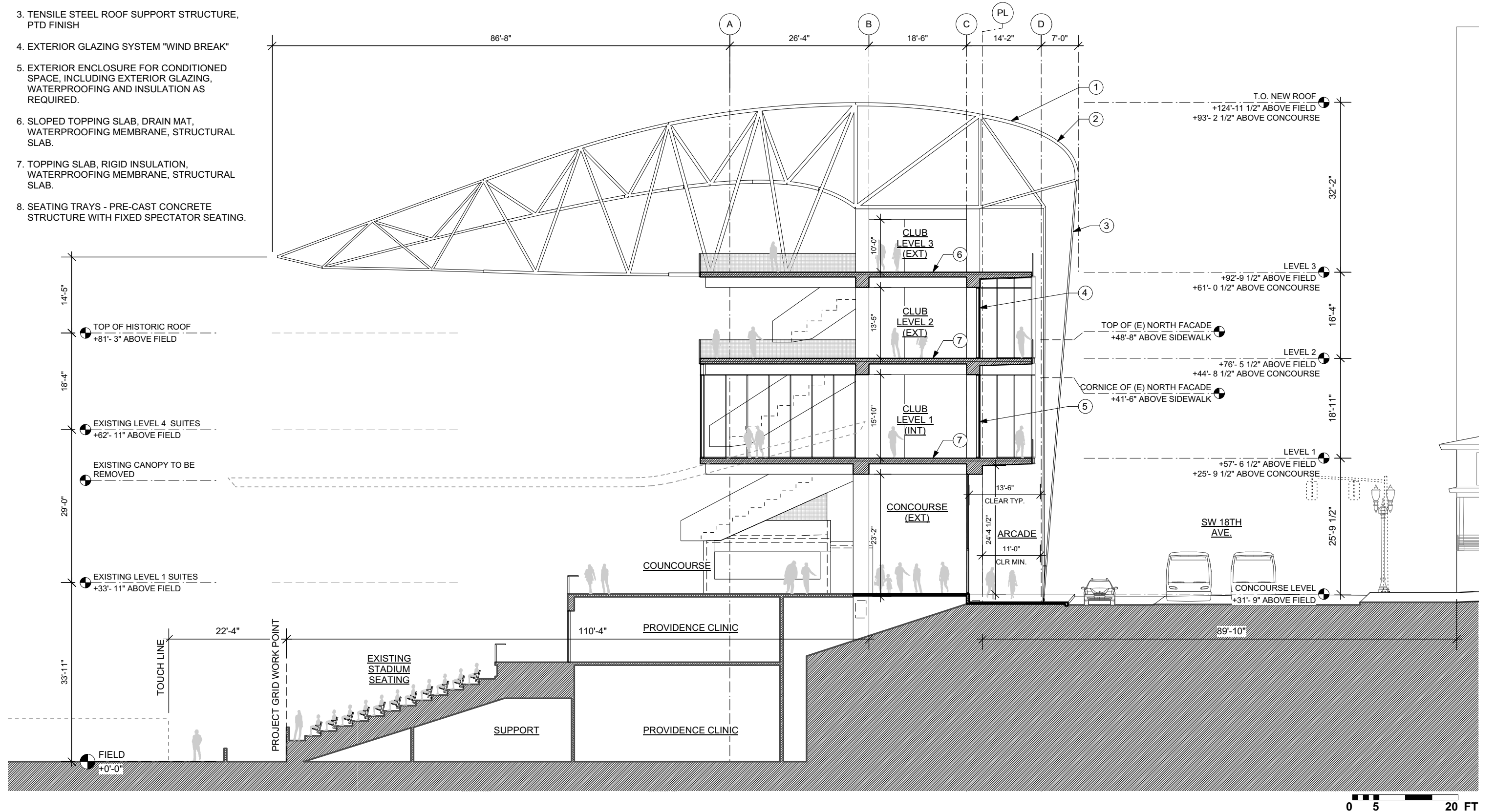
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- 8. SEATING TRAYS - PRE-CAST CONCRETE STRUCTURE WITH FIXED SPECTATOR SEATING.



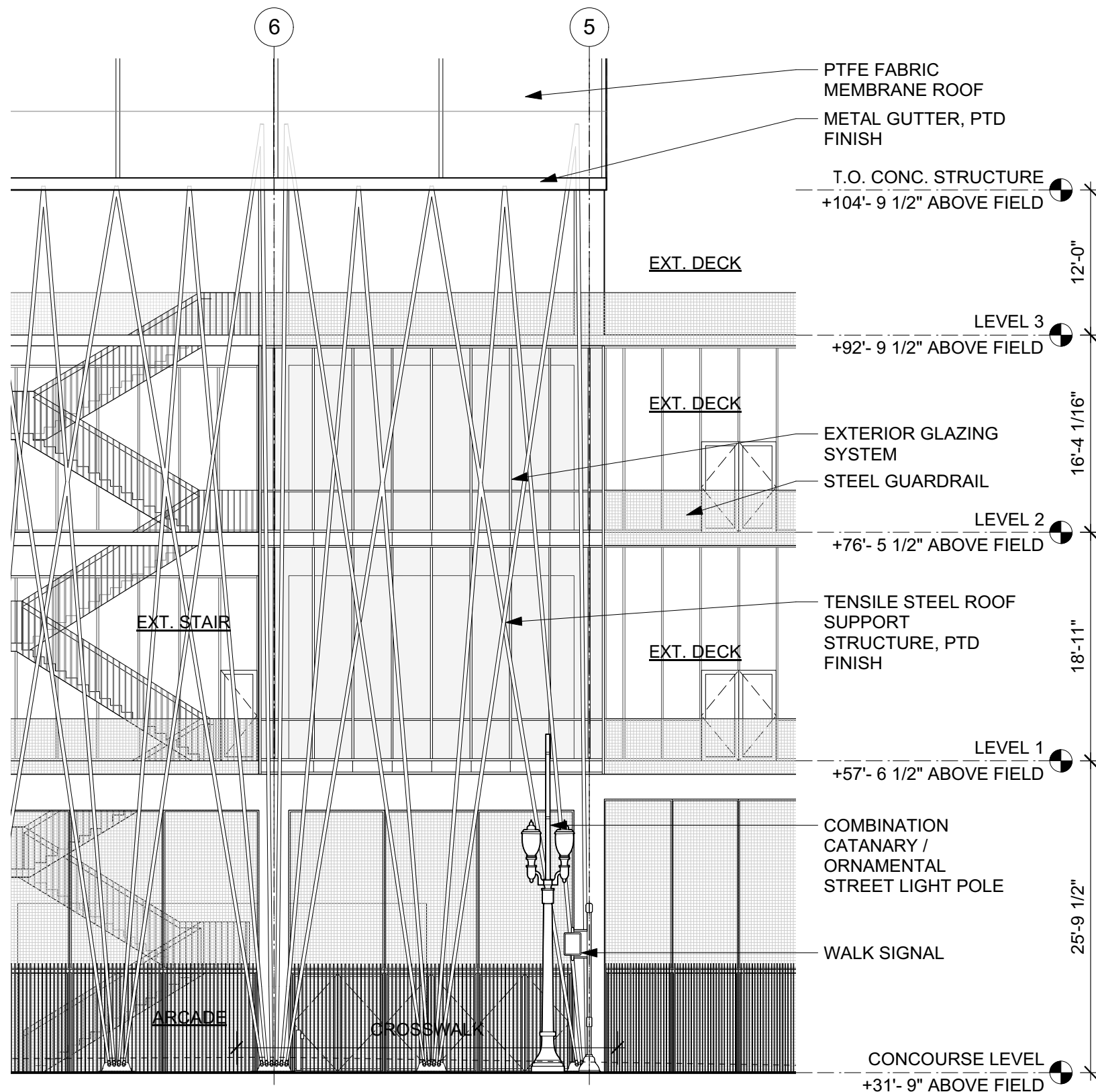
BUILDING SECTION

CODED NOTES

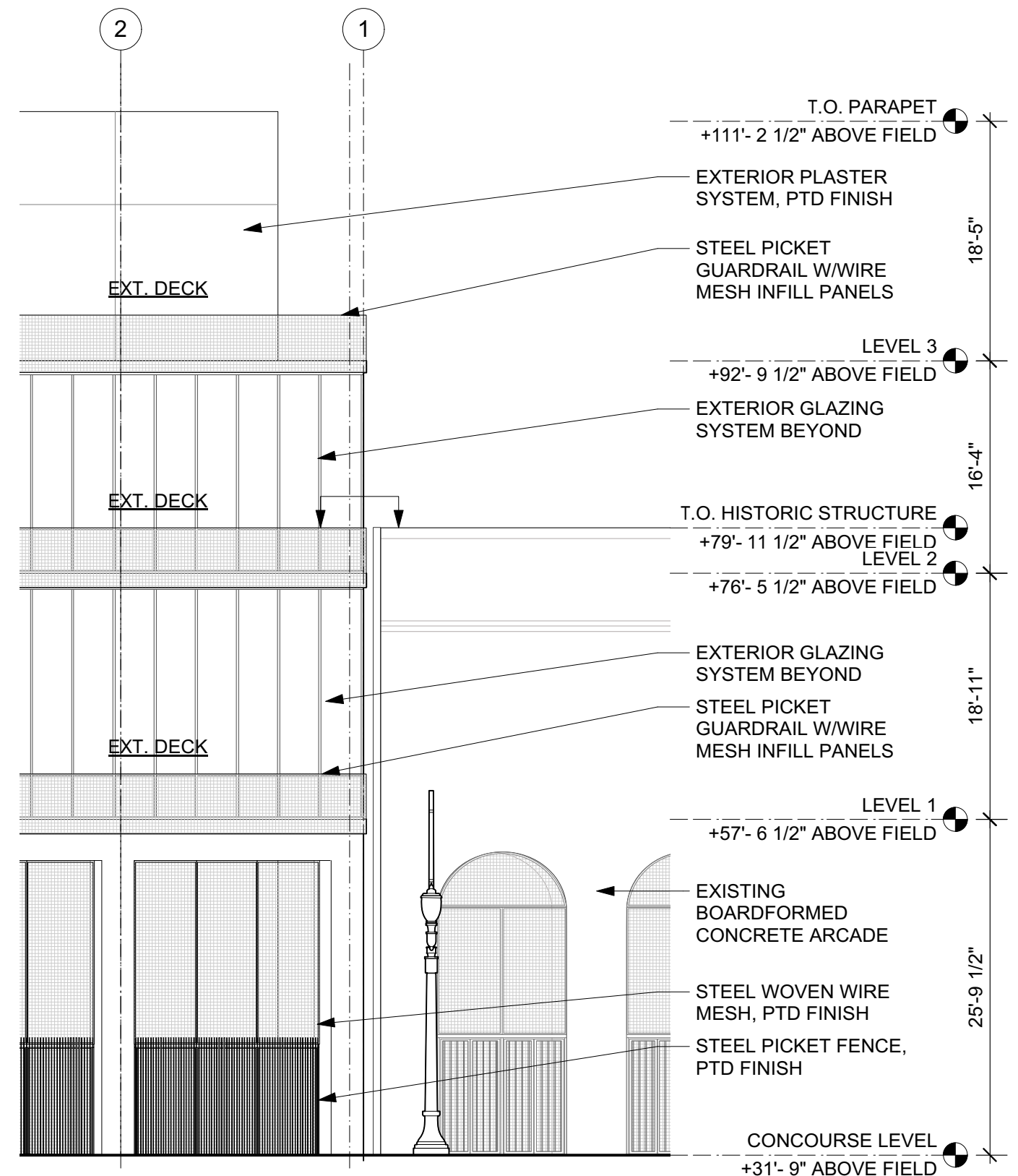
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BUILDING SECTION



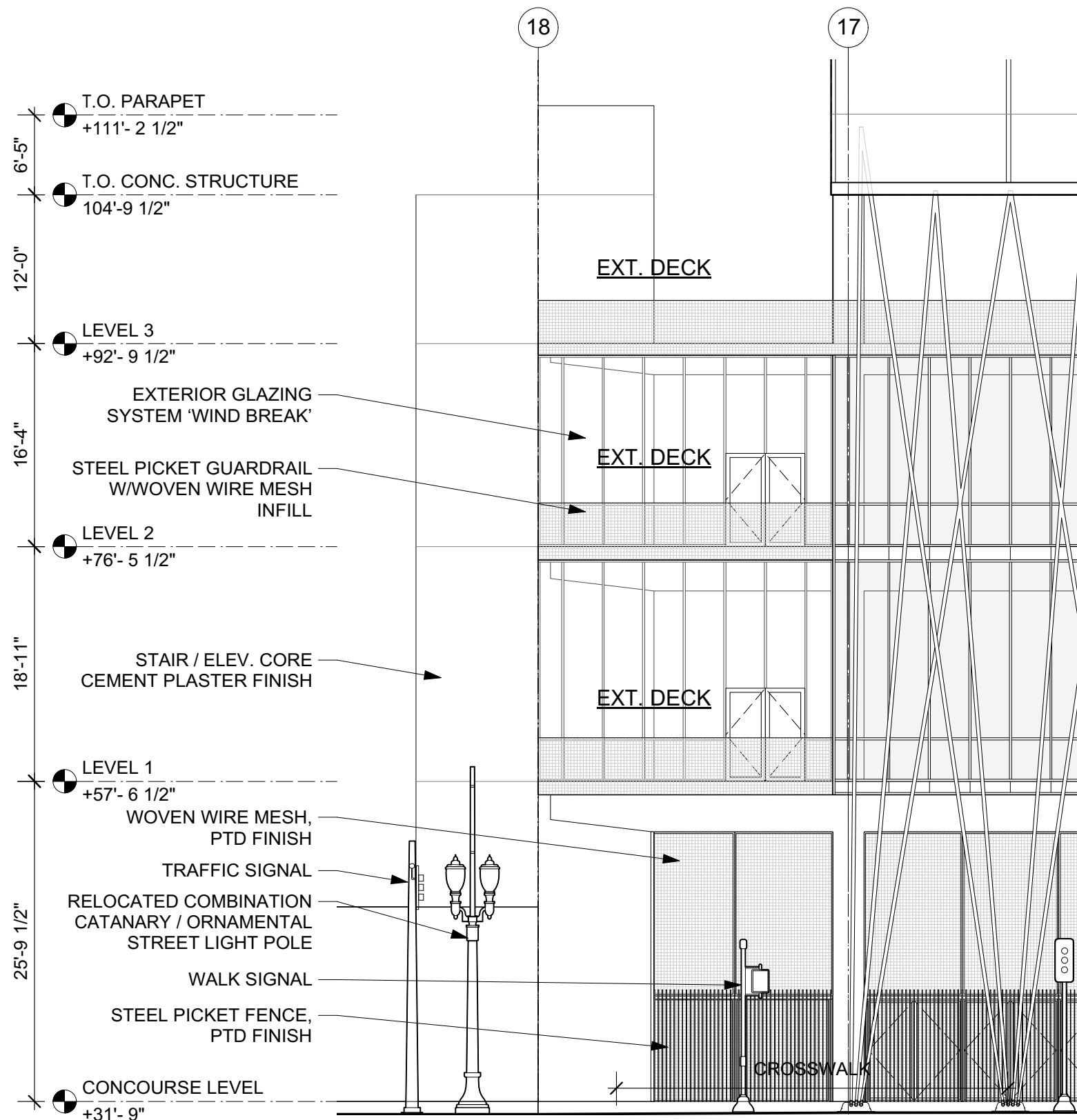
2 PARTIAL BUILDING ELEVATION - LOOKING WEST



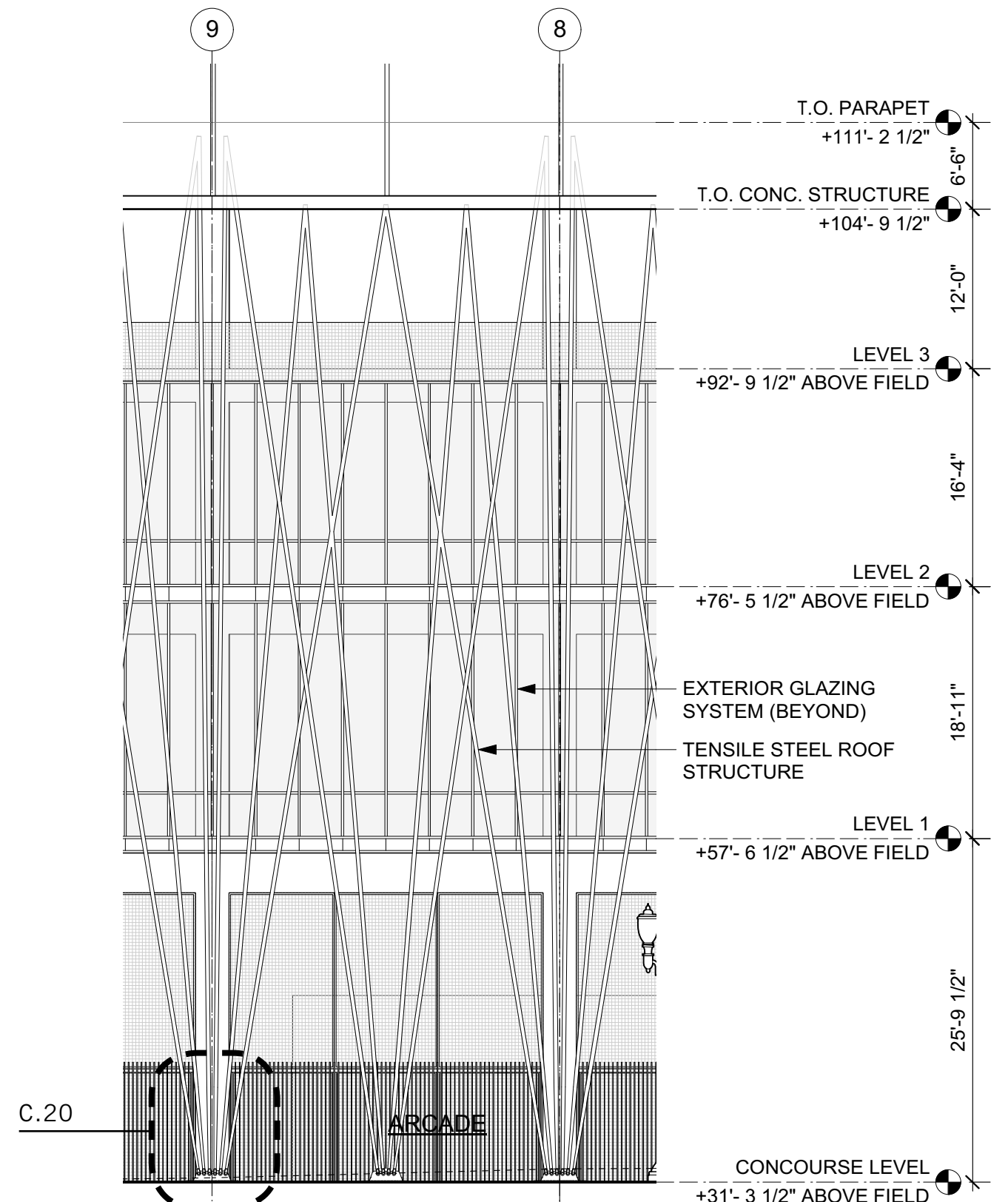
1 PARTIAL BUILDING ELEVATION - LOOKING WEST

SCALE: 3/32"=1'-0" 0 5 10

ENLARGED ELEVATIONS - EAST



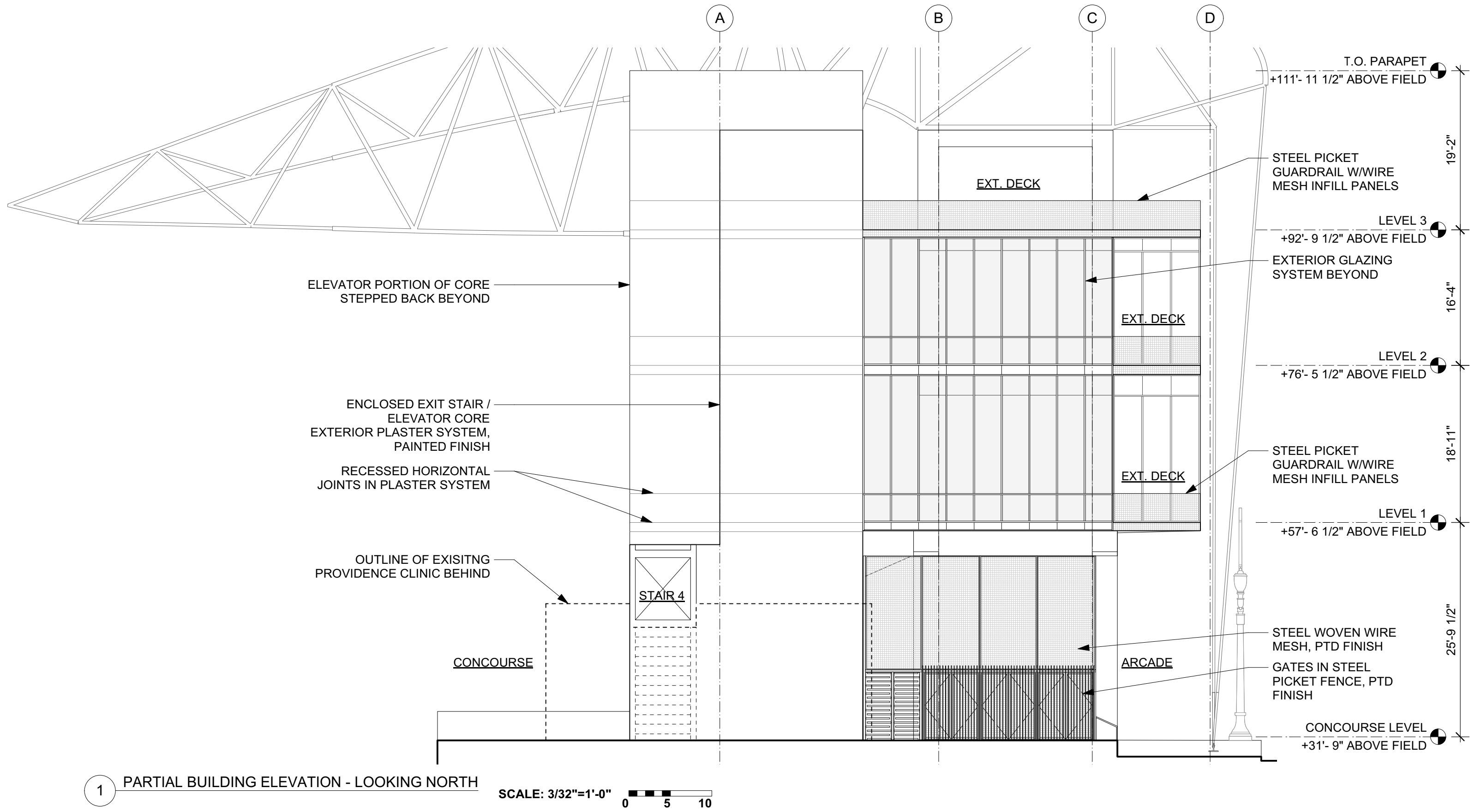
2 PARTIAL BUILDING ELEVATION: SOUTH DECK

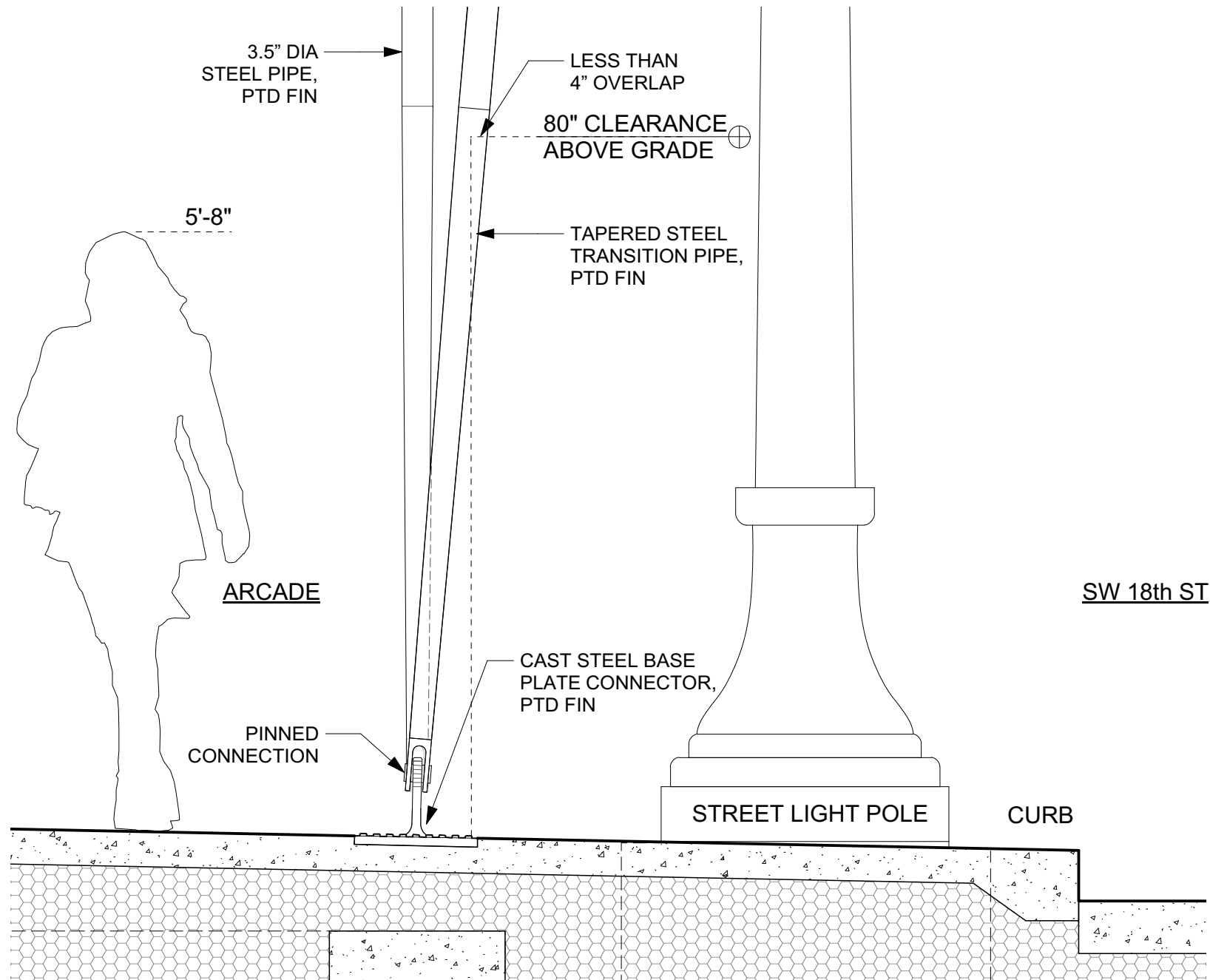


1 PARTIAL BUILDING ELEVATION: TYPICAL BAY

SCALE: 3/32"=1'-0" 0 5 10

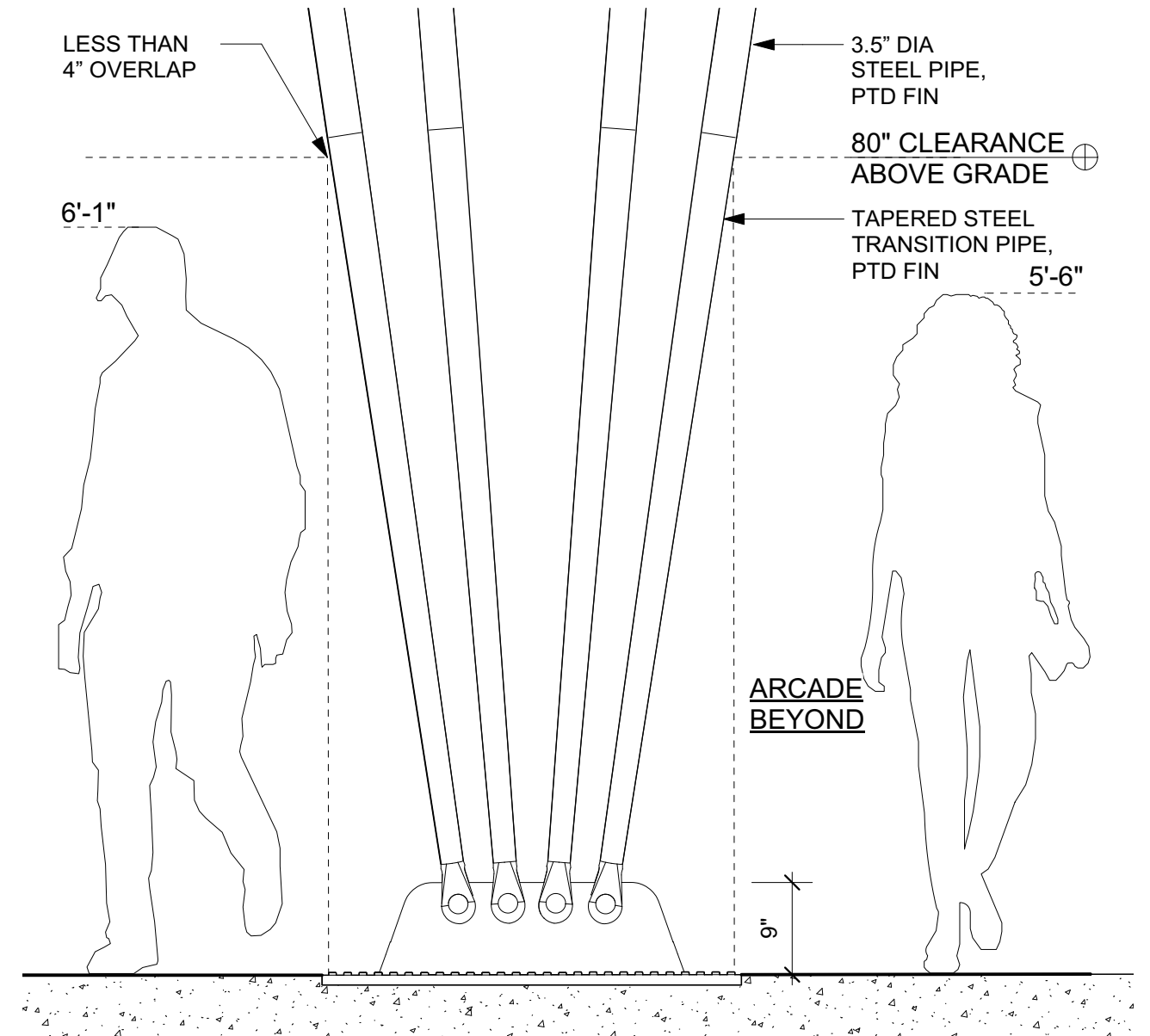
ENLARGED ELEVATIONS - EAST



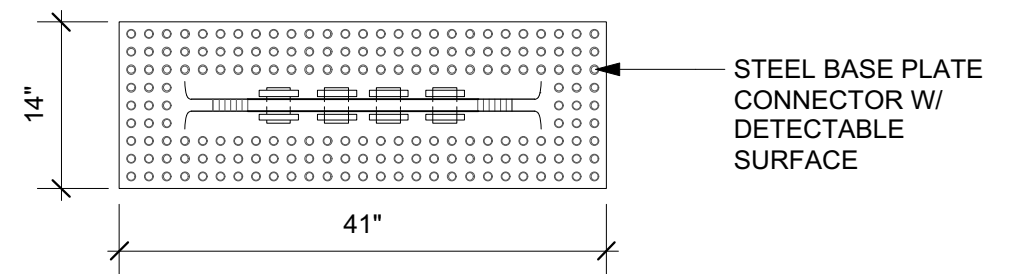


END VIEW (LOOKING NORTH)

1 SECTION / ELEVATION DETAIL - FACADE BASE CONNECTION



SIDE VIEW

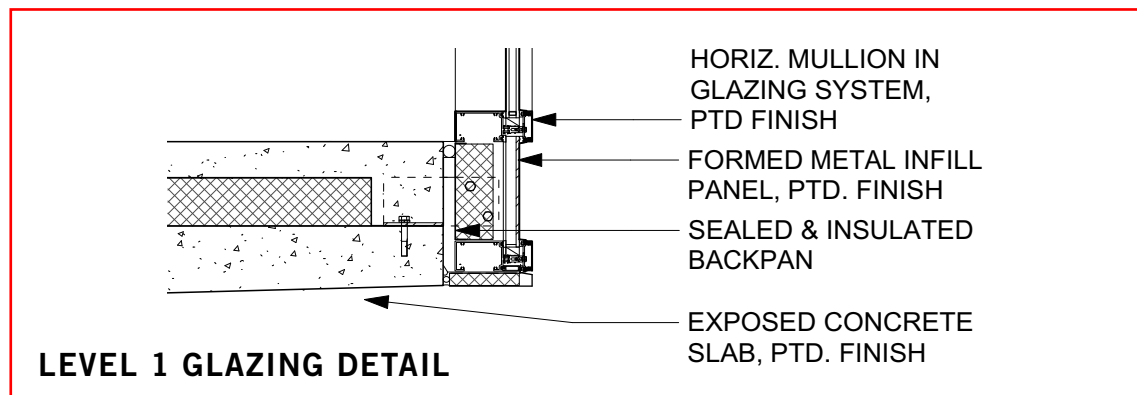
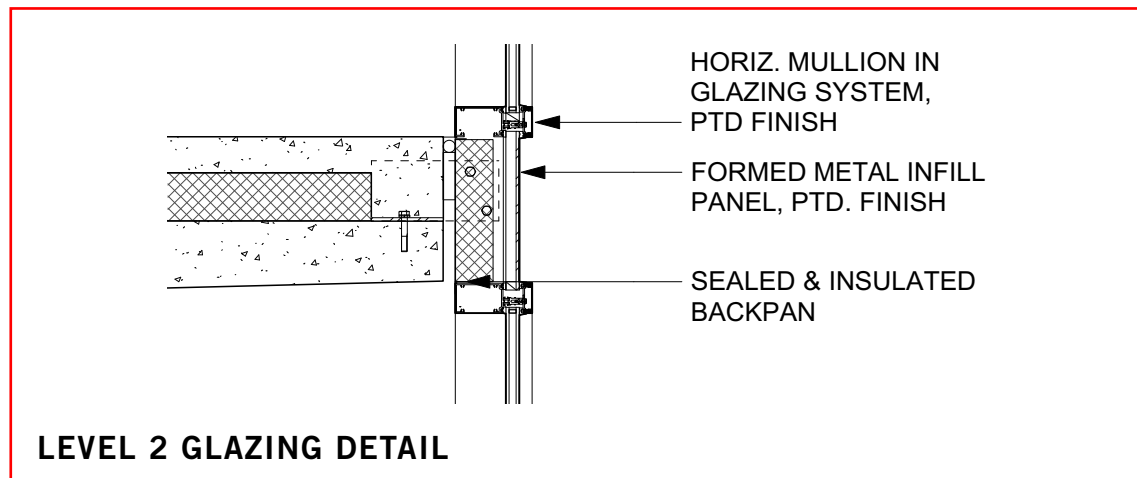
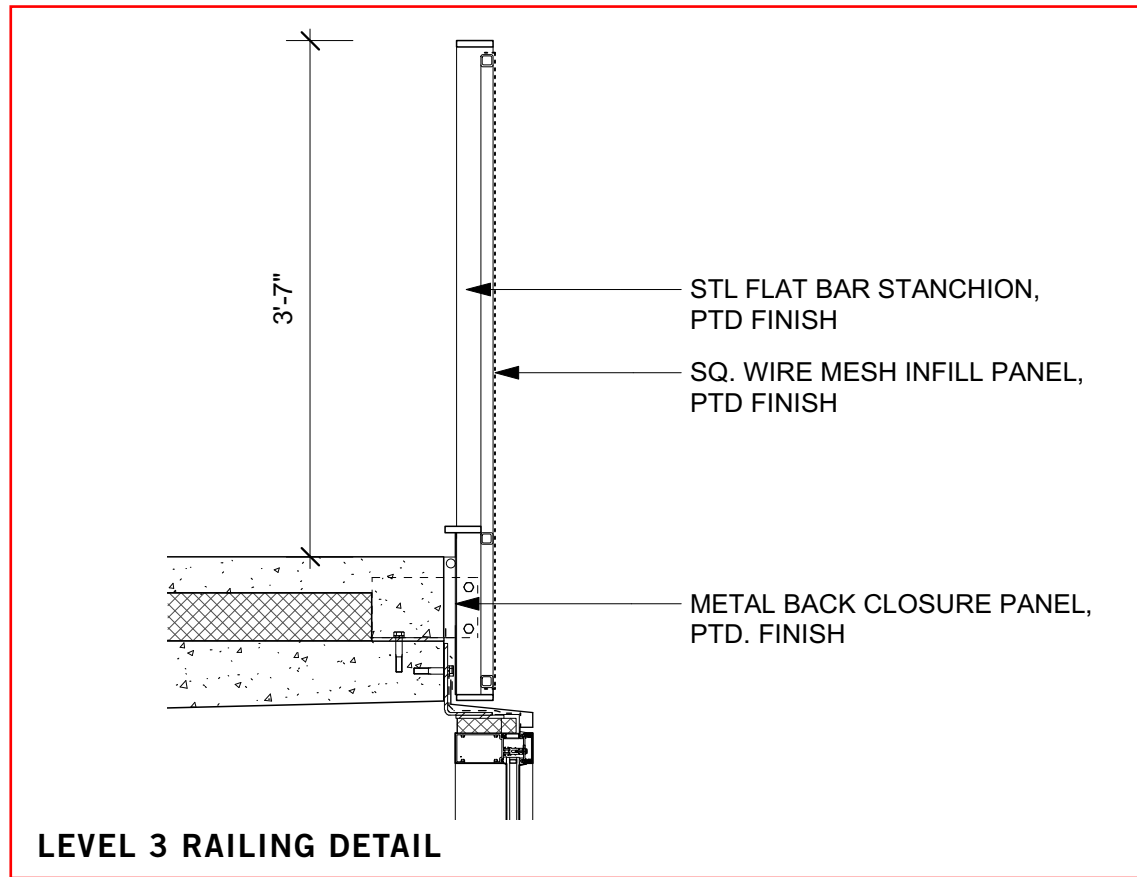


PLAN VIEW

2 SECTION / ELEVATION DETAIL - FACADE BASE CONNECTION

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

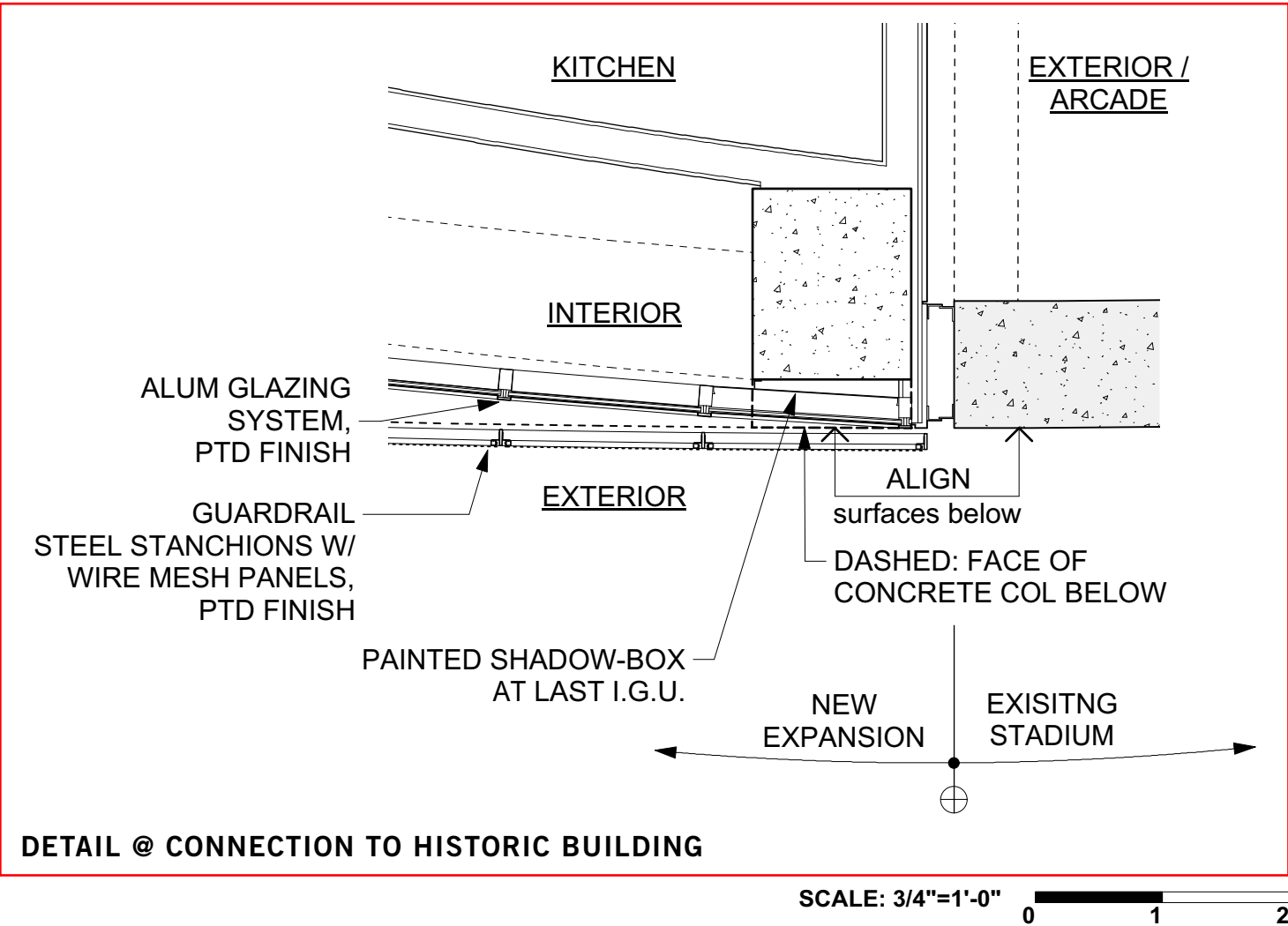
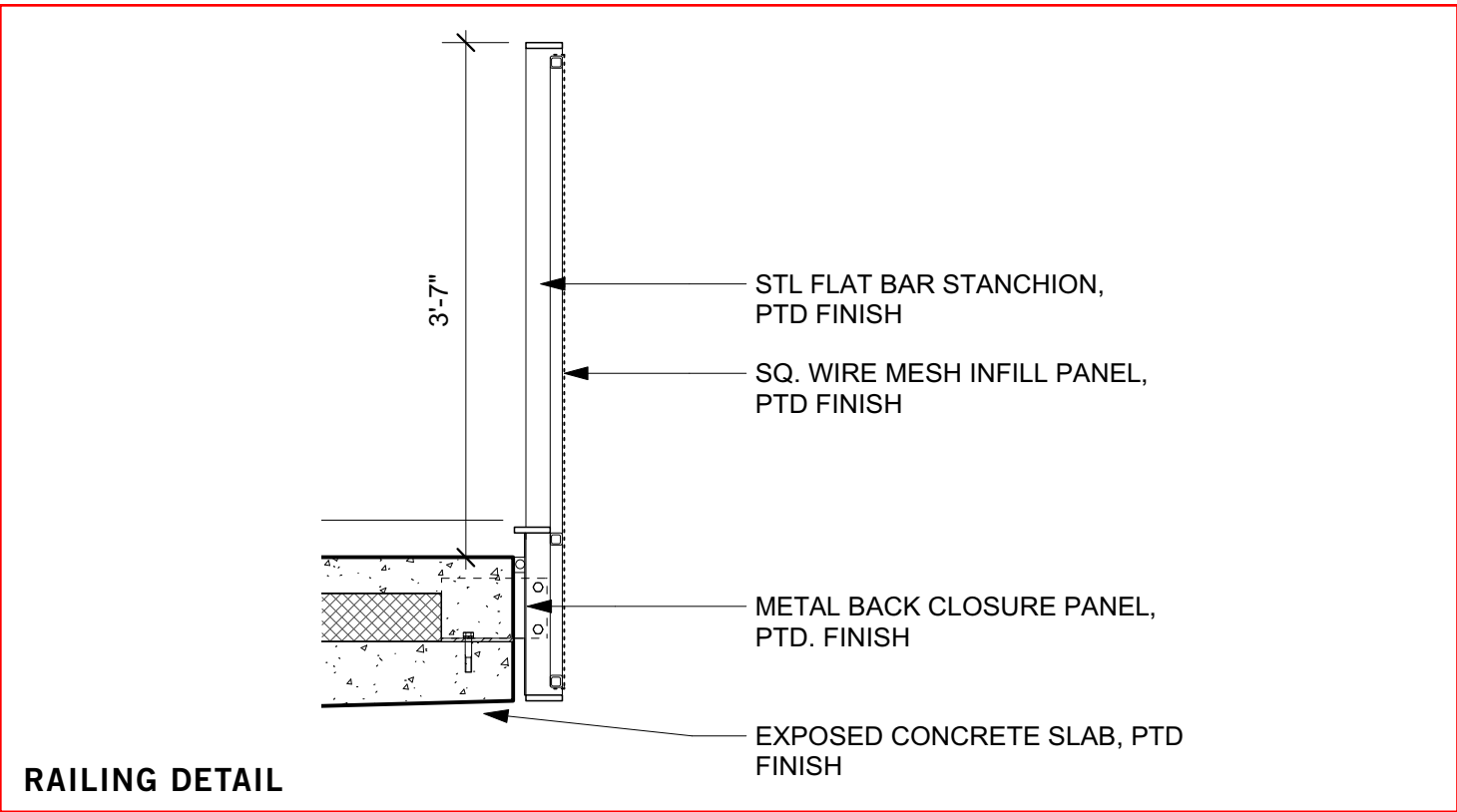
BUILDING DETAILS



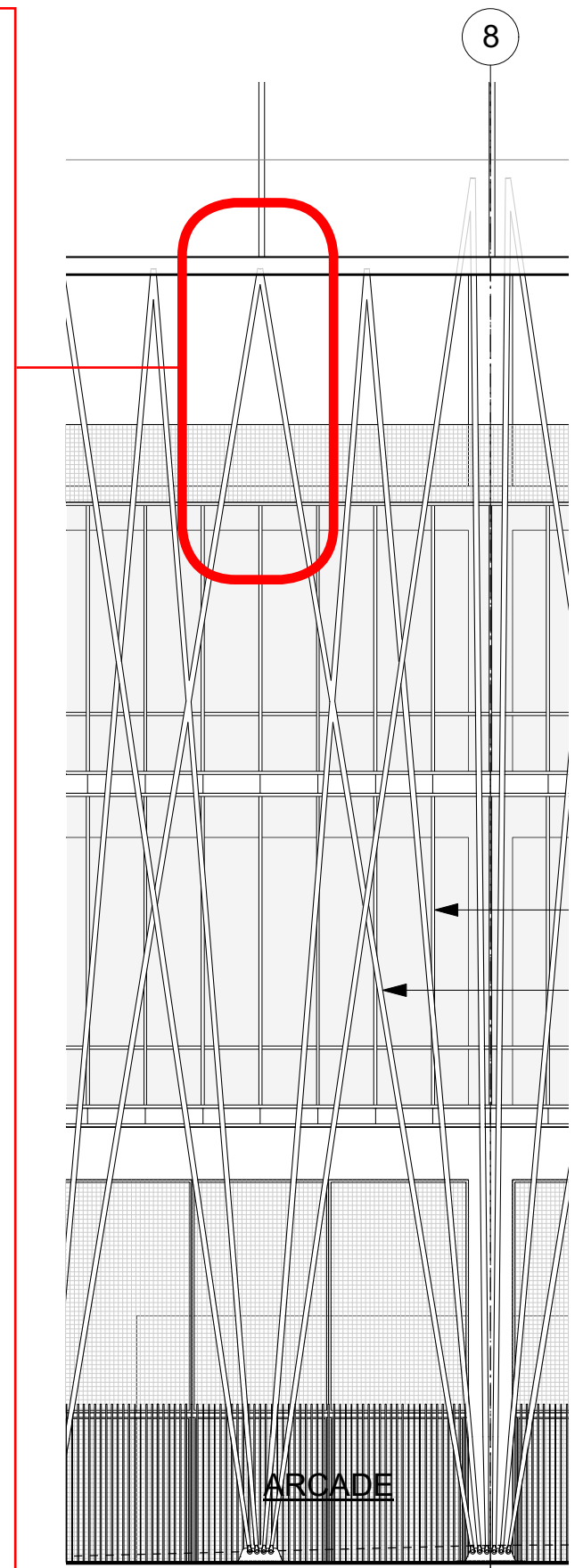
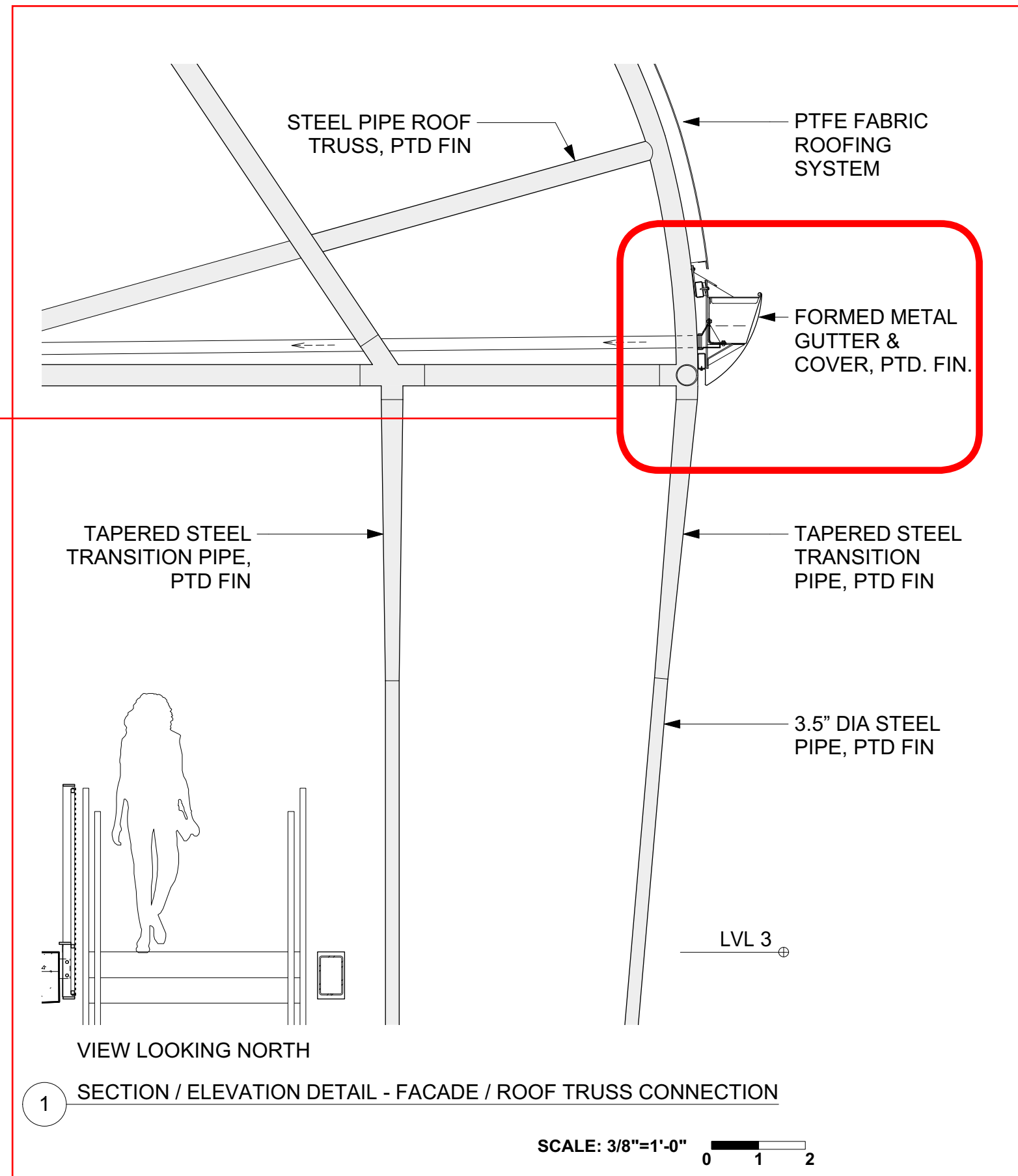
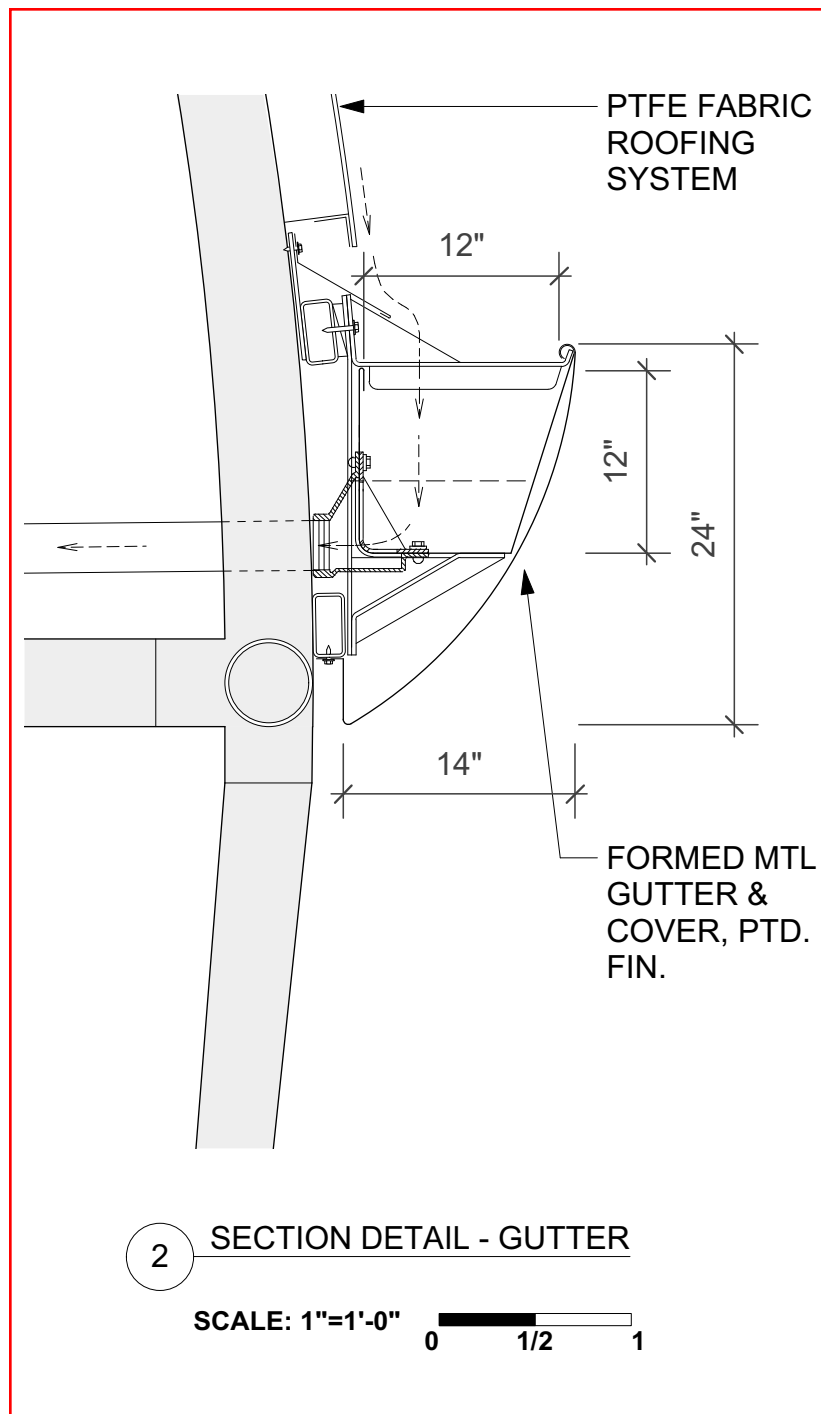
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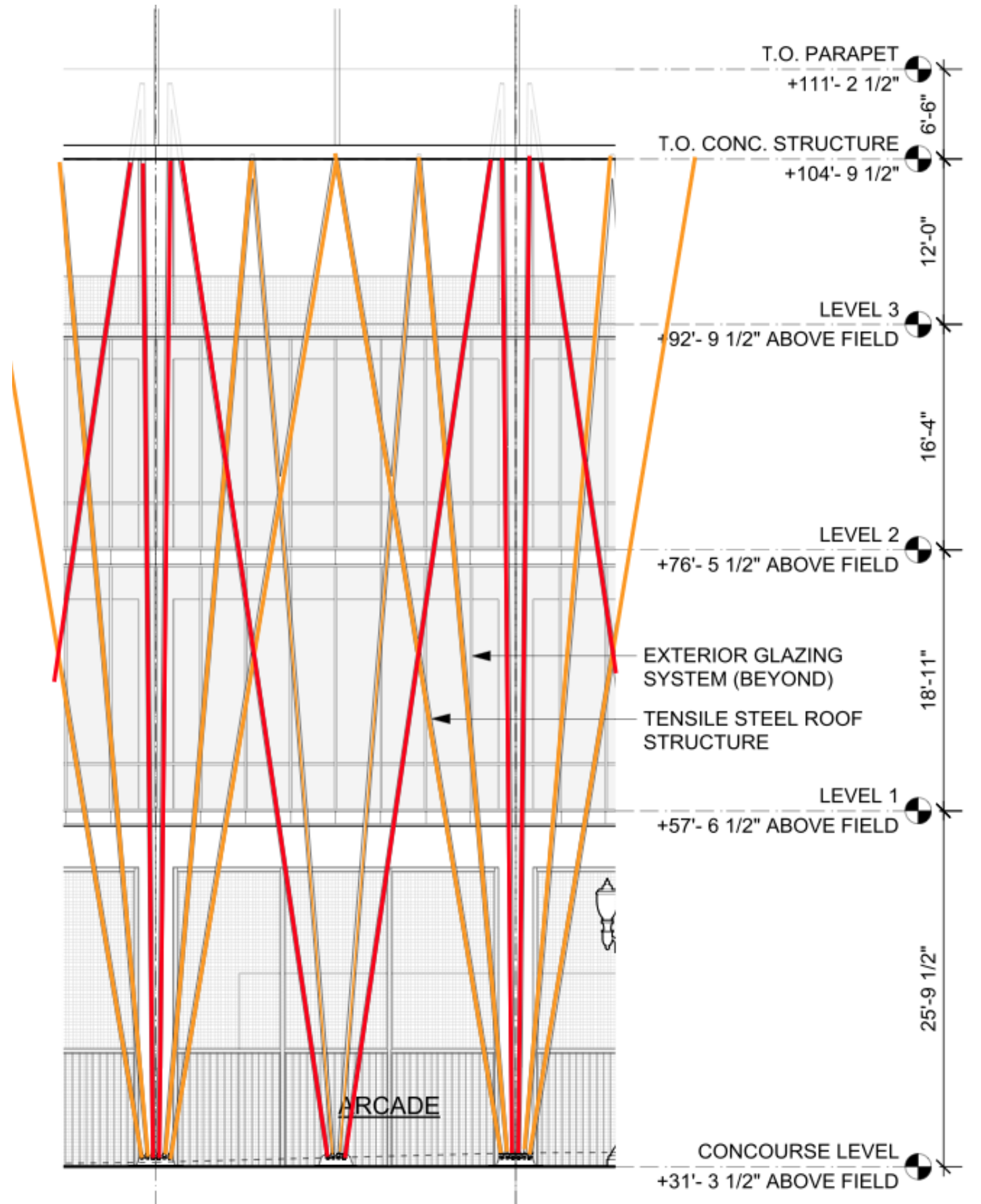
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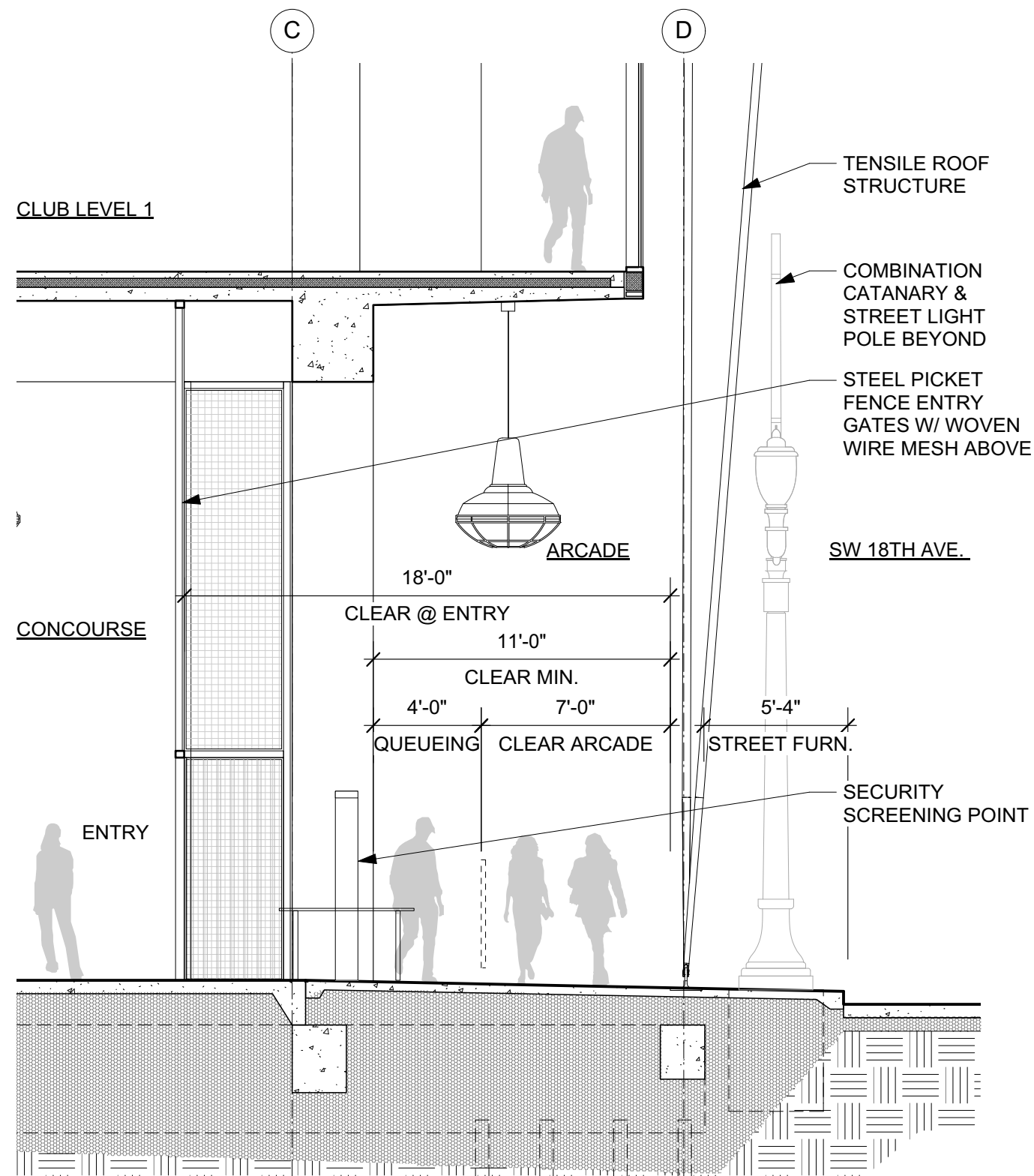
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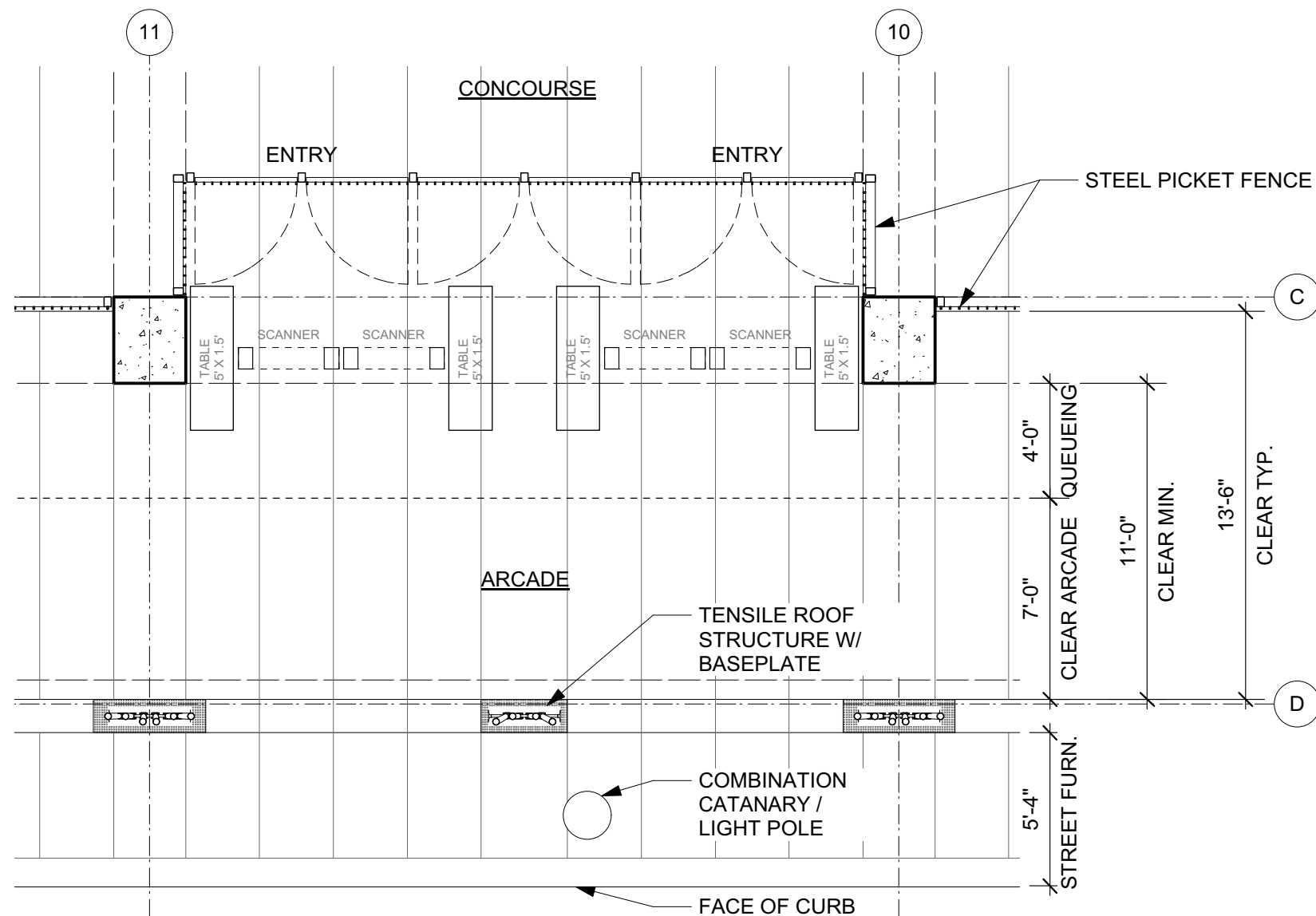
BUILDING DETAILS



BUILDING DETAILS - FACADE GEOMETRY



2 ENLARGED SECTION: ARCADE ENTRY

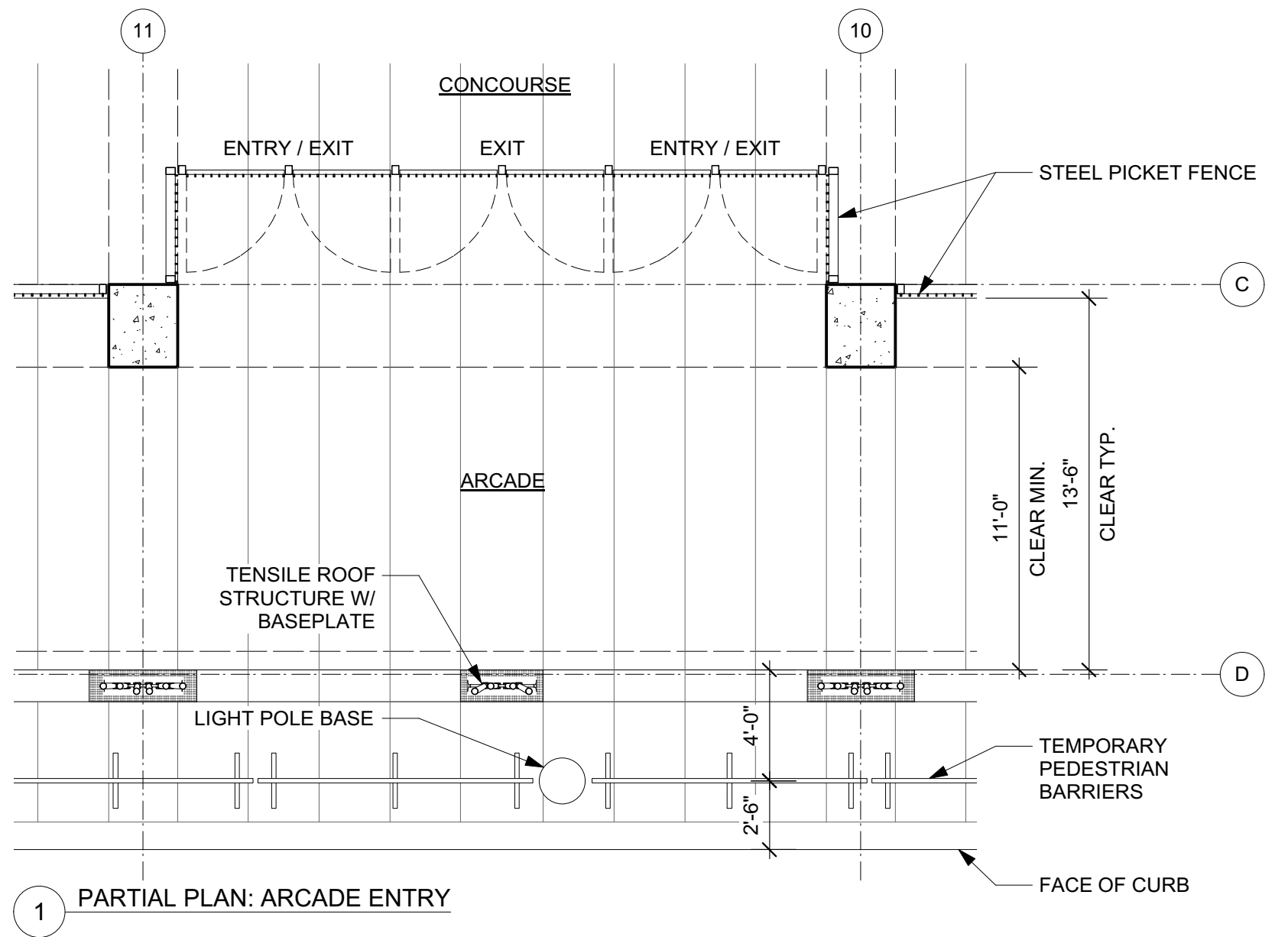
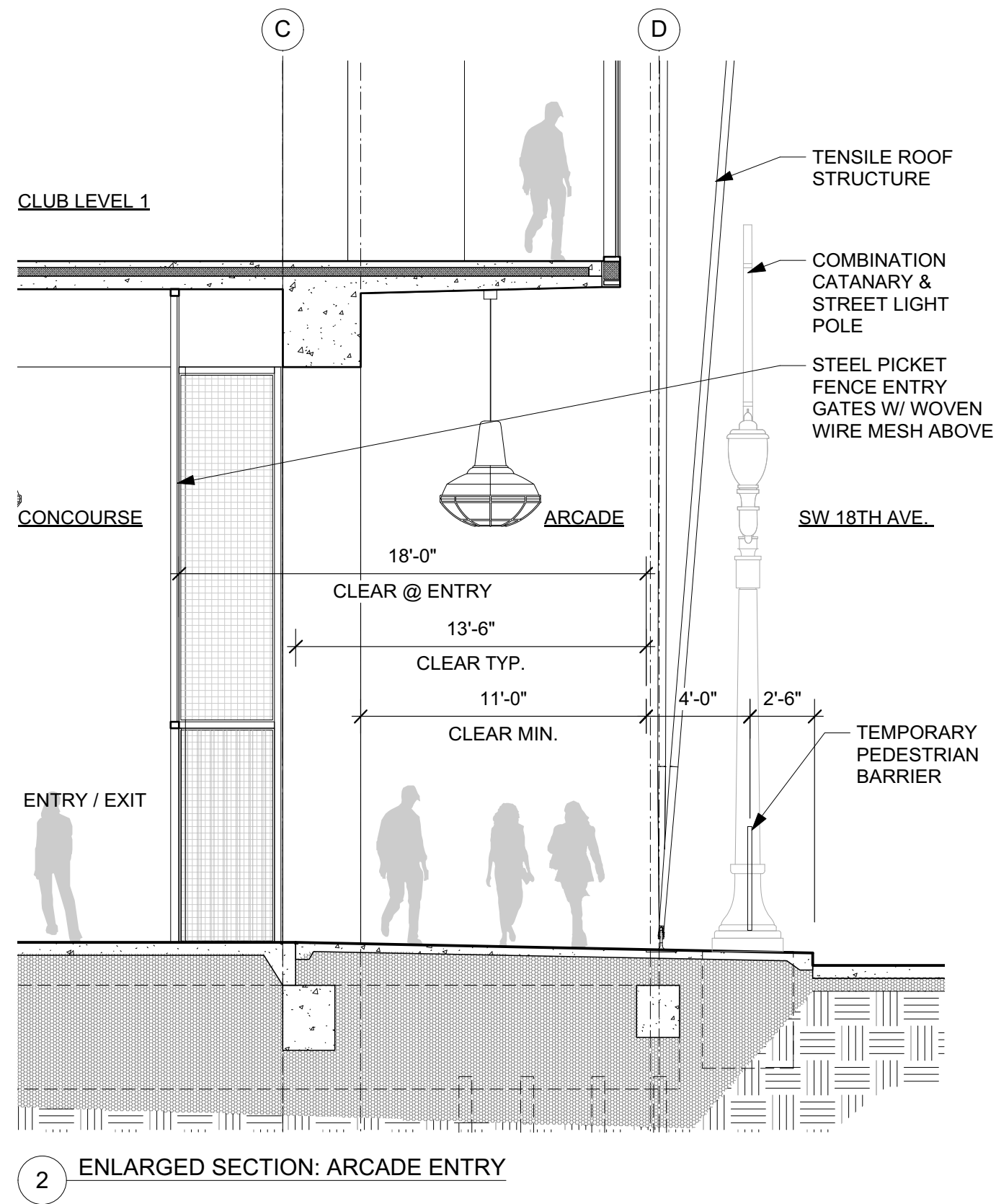


1 PARTIAL PLAN: ARCADE ENTRY

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

ENLARGED ARCADE - ENTRY & QUEUEING

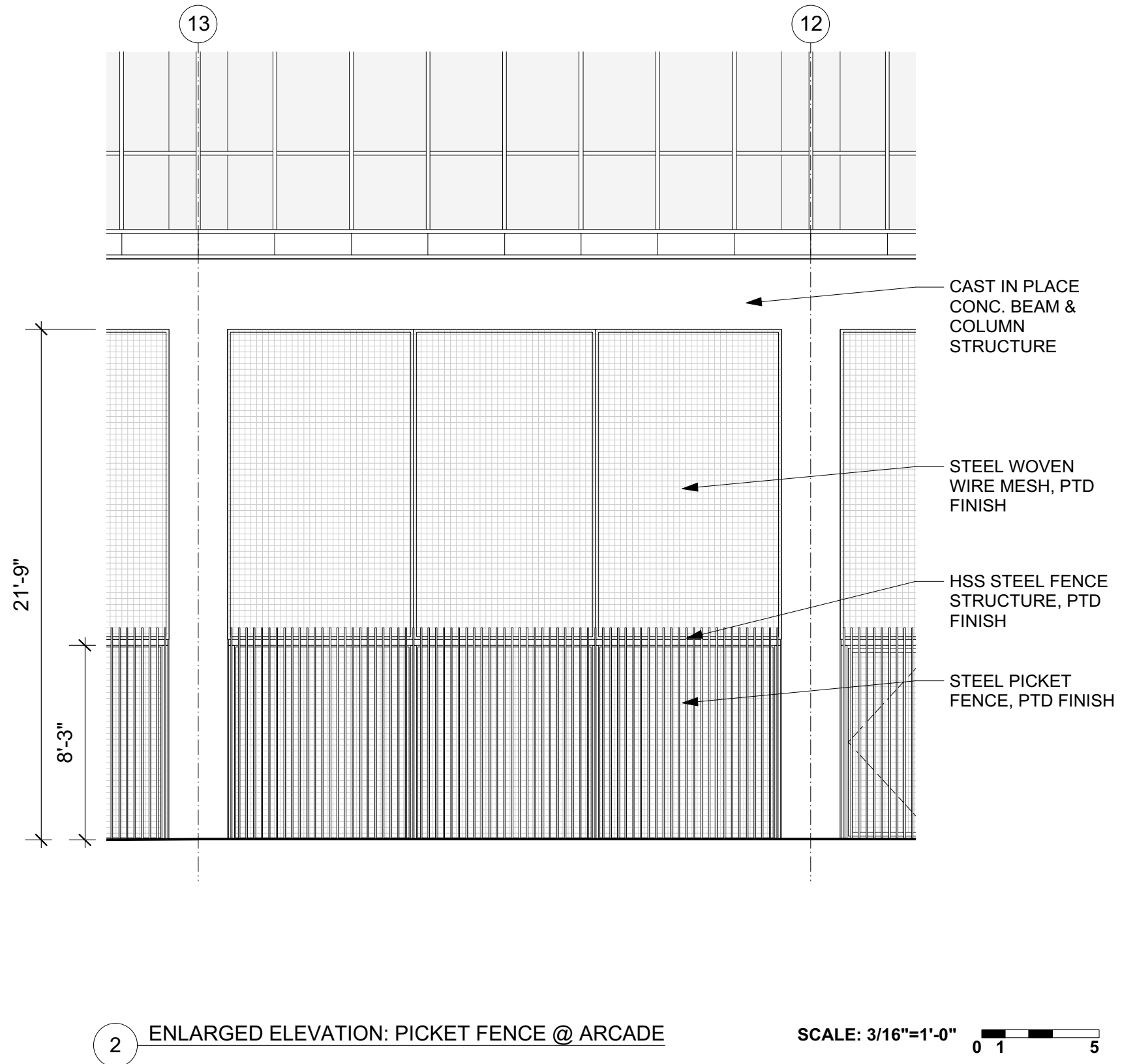
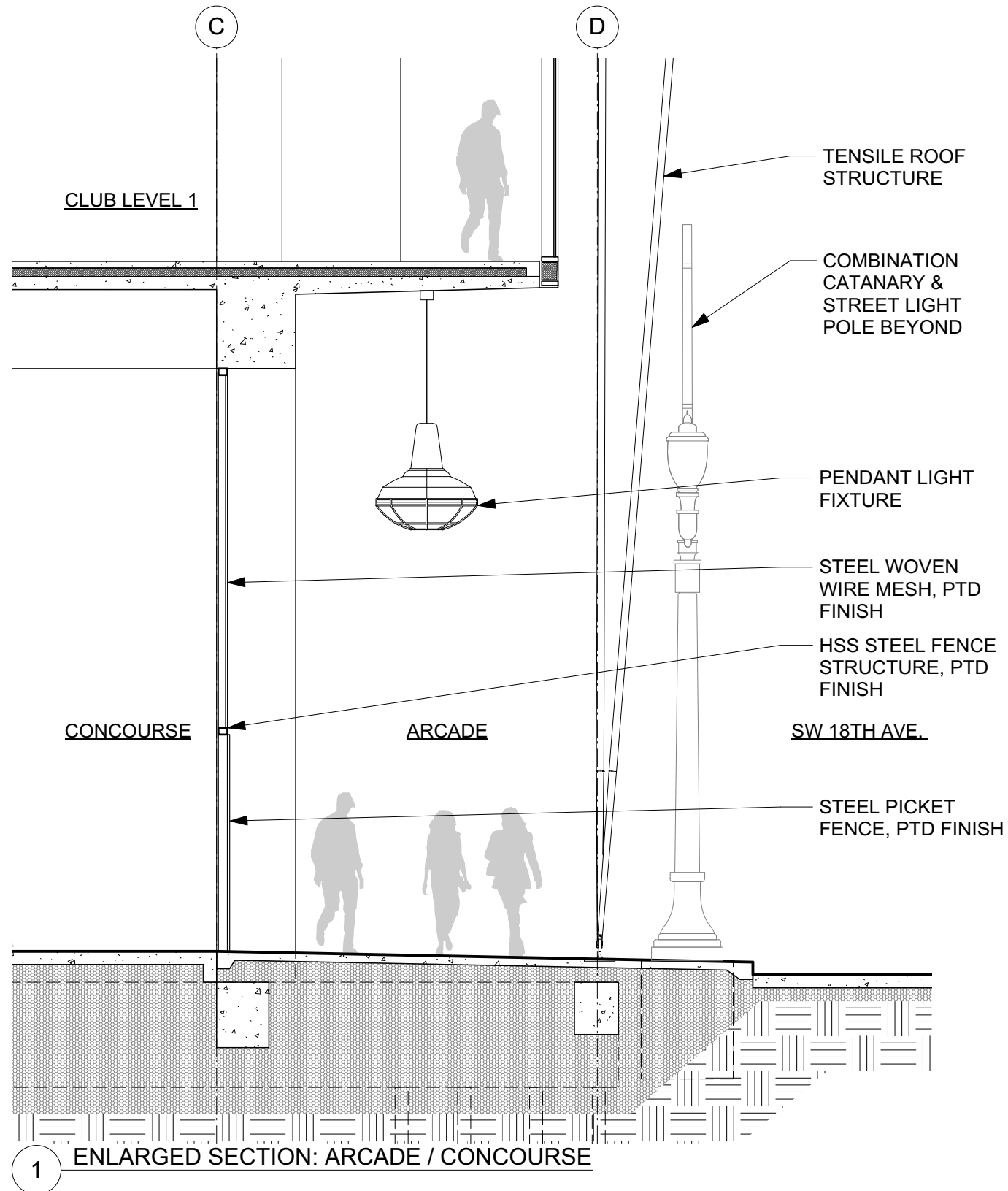
ALTERNATE APPROACH
POTENTIAL FUTURE CURBSIDE TEMPORARY BARRIER



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

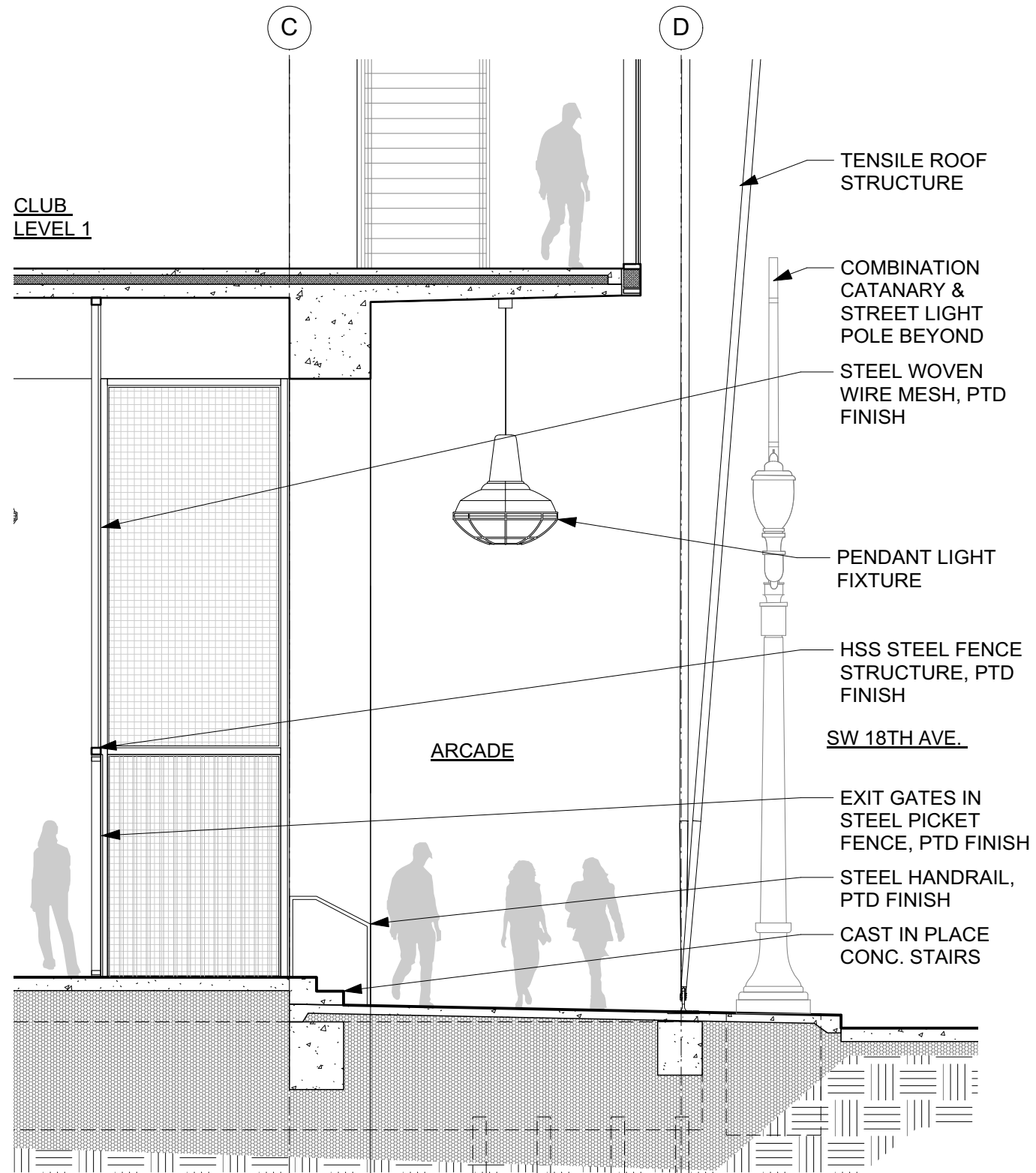
ENLARGED ARCADE - TEMPORARY CURBSIDE BARRIER

PROPOSED FENCE DESIGN

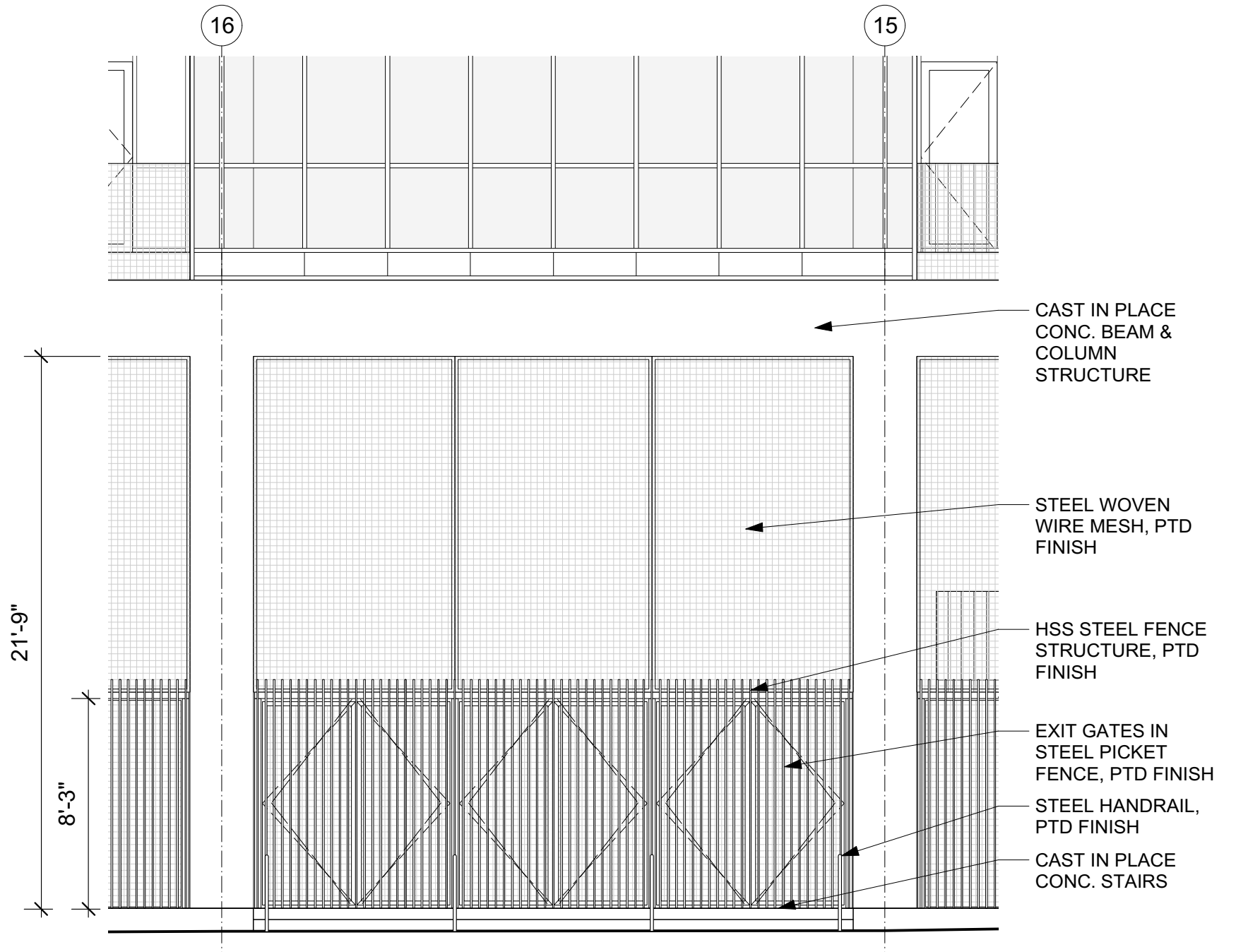


ENLARGED ARCADE FENCE ELEVATION

PROPOSED FENCE DESIGN



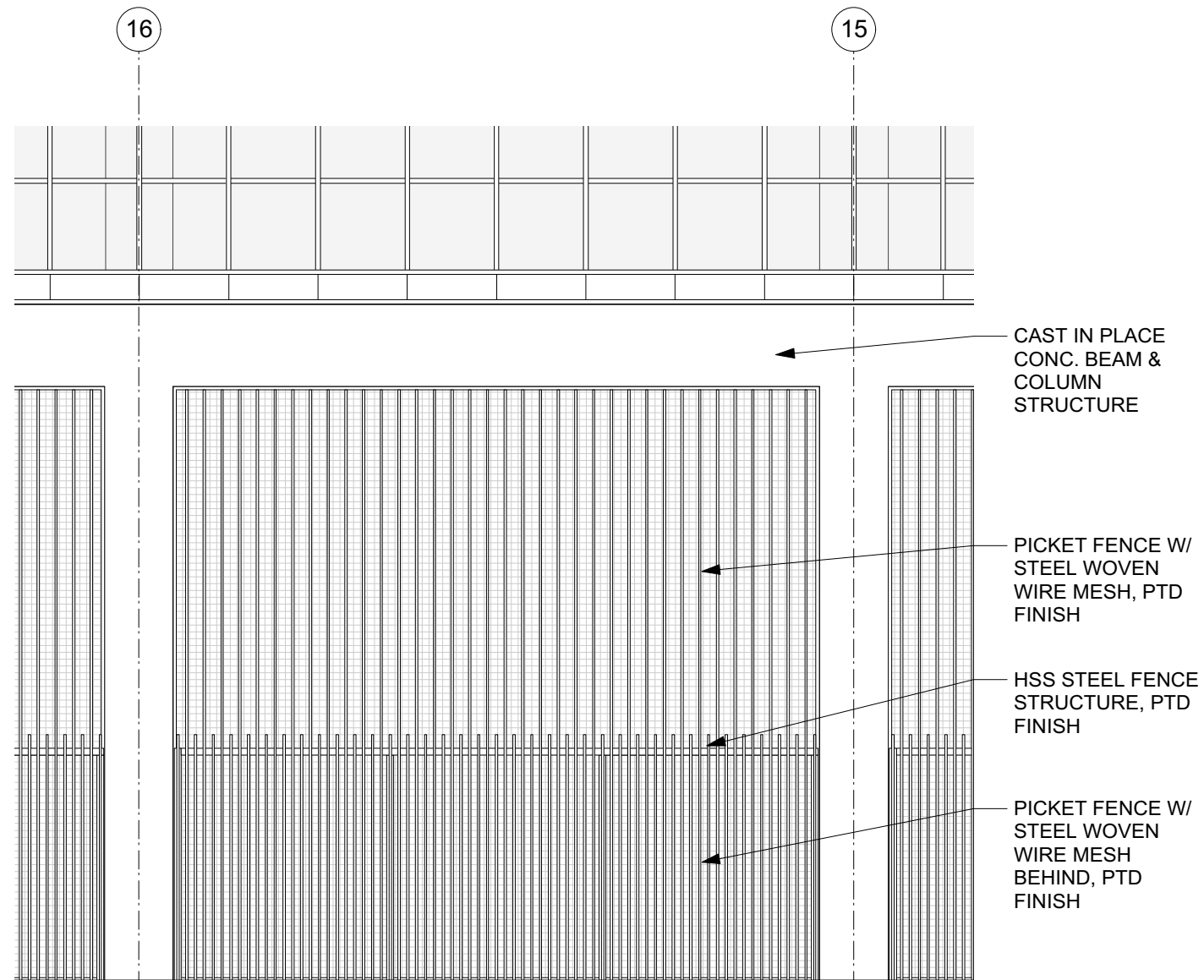
1 ENLARGED SECTION: ARCADE / CONCOURSE EXIT



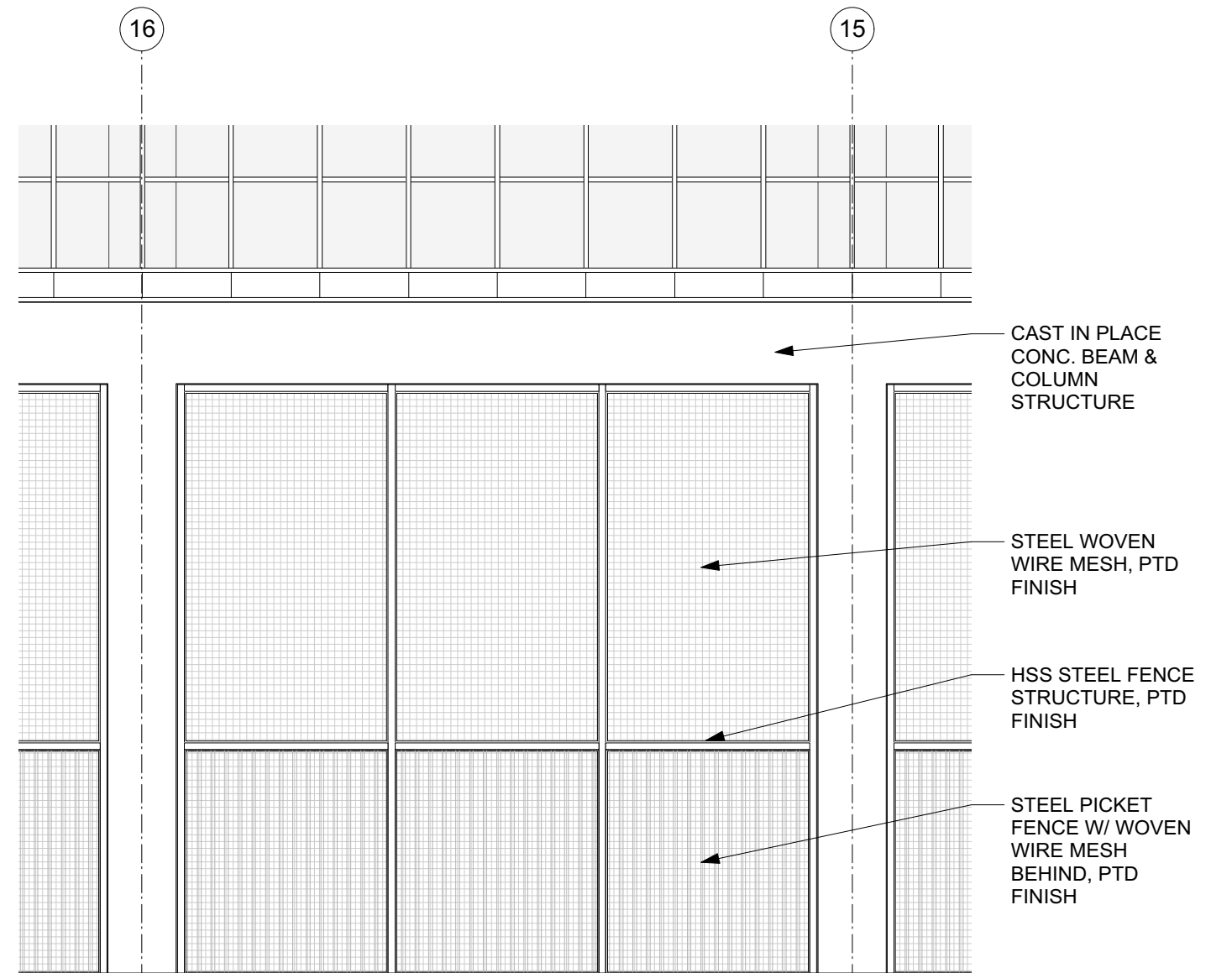
SCALE: 3/16"=1'-0" 0 1 5

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



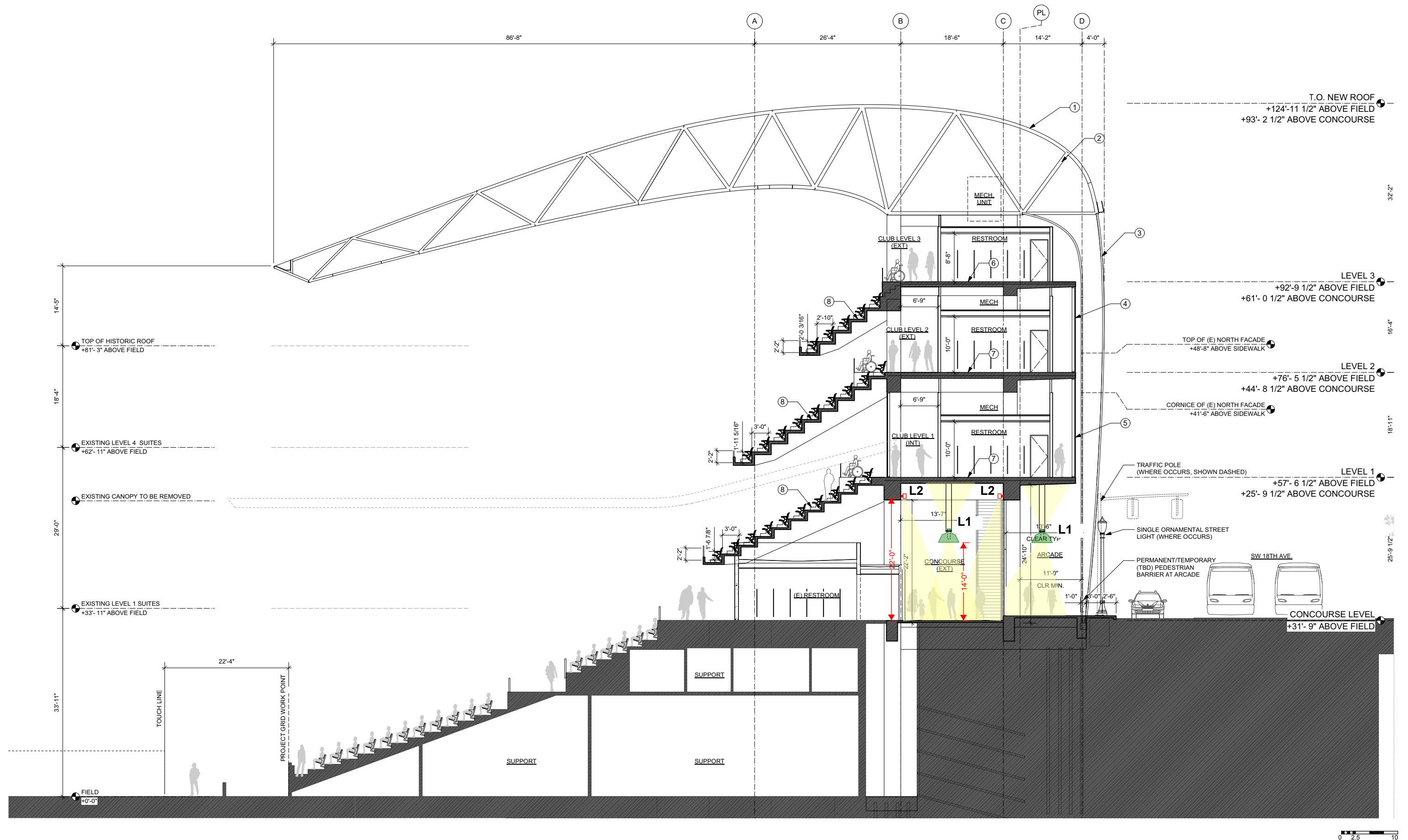
COURTESY OREGON HISTORICAL SOCIETY

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

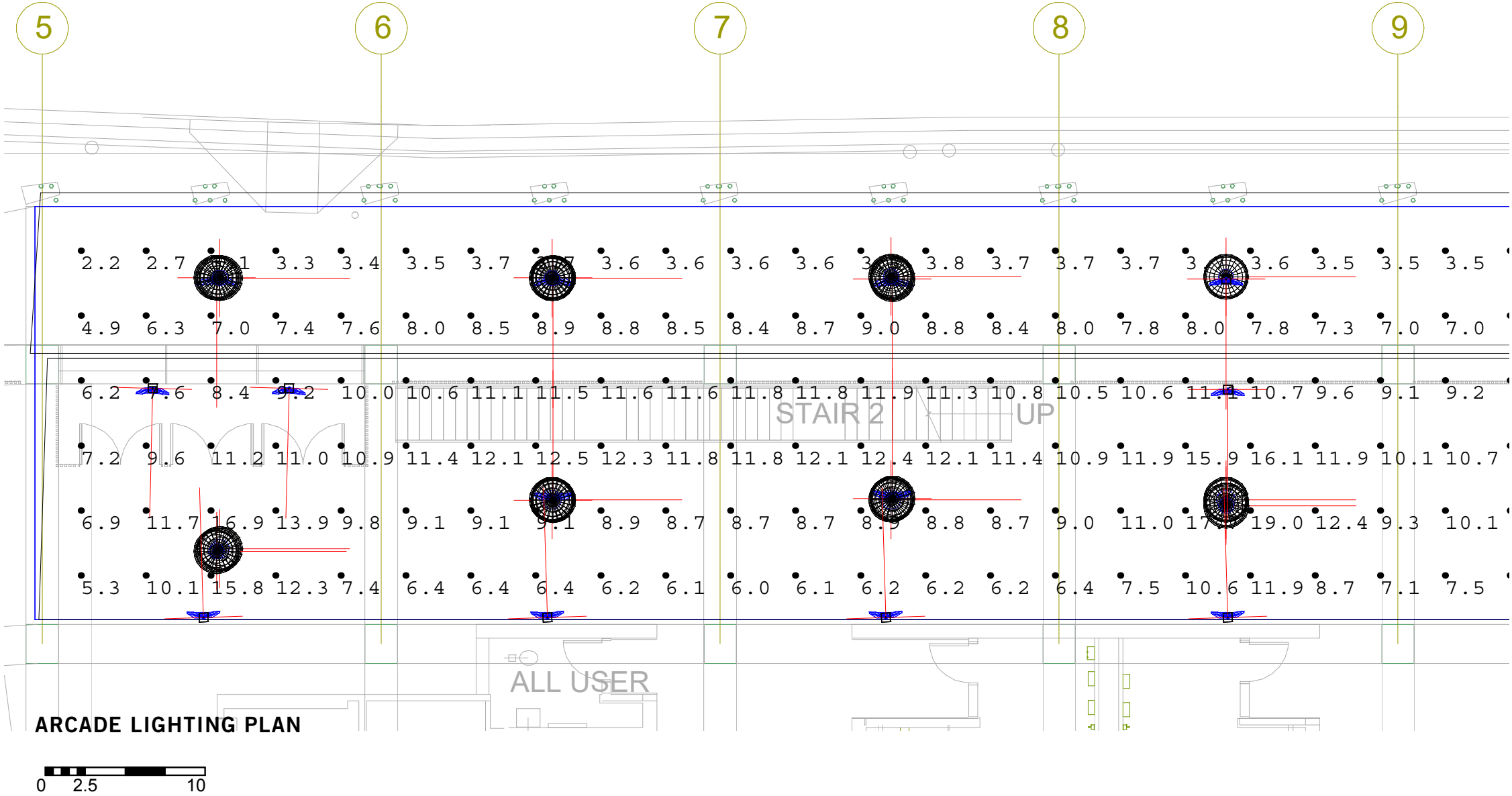


ARCADE LIGHTING SECTION

ARCADE LIGHTING CALCULATIONS

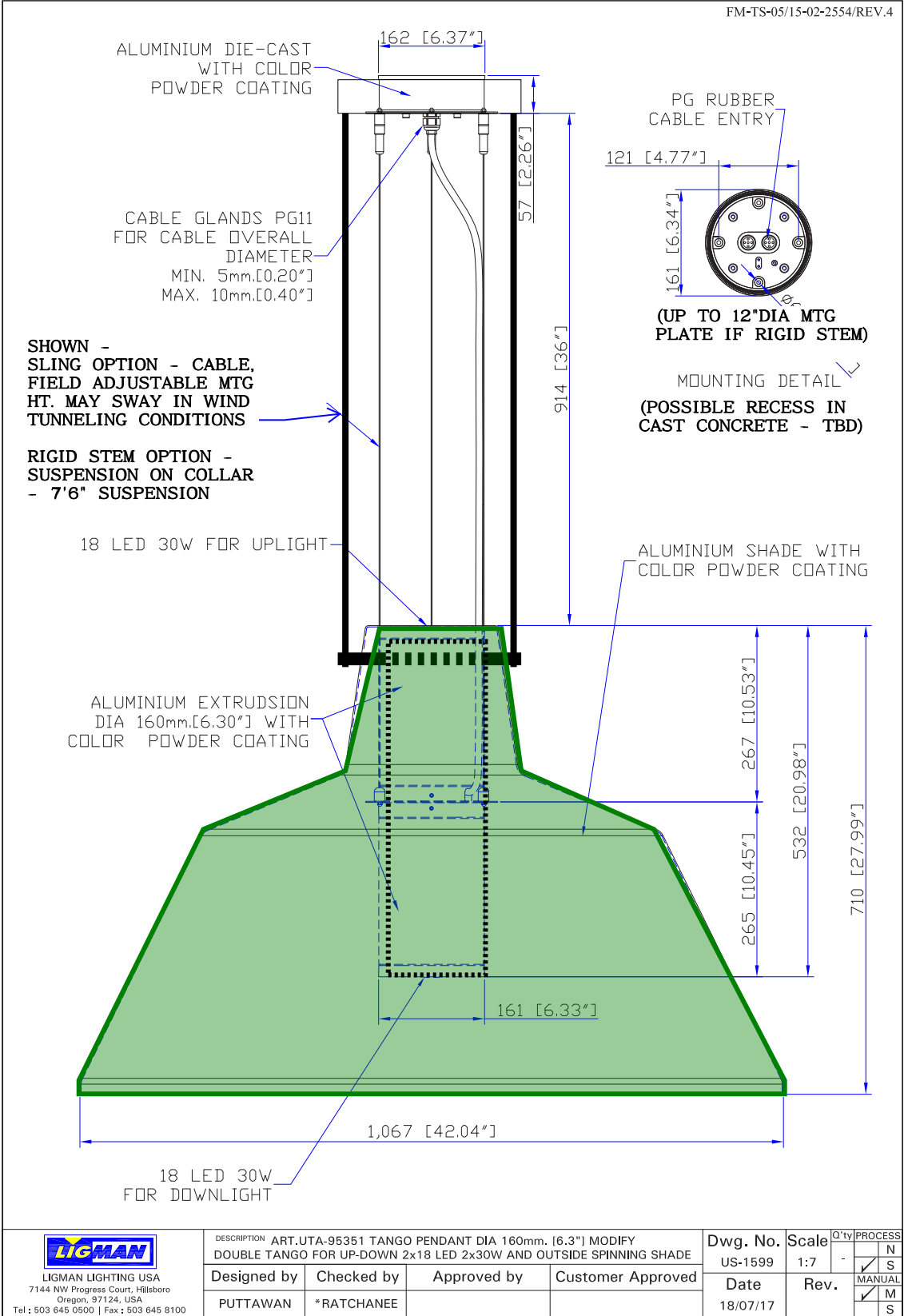
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Floor_Top	Illuminance	Fc	9.09	20.2	2.2	4.13	9.18
Arcade	Illuminance	Fc	5.74	9.0	2.2	2.61	4.09
Main Concourse	Illuminance	Fc	10.90	20.2	5.3	2.06	3.81

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

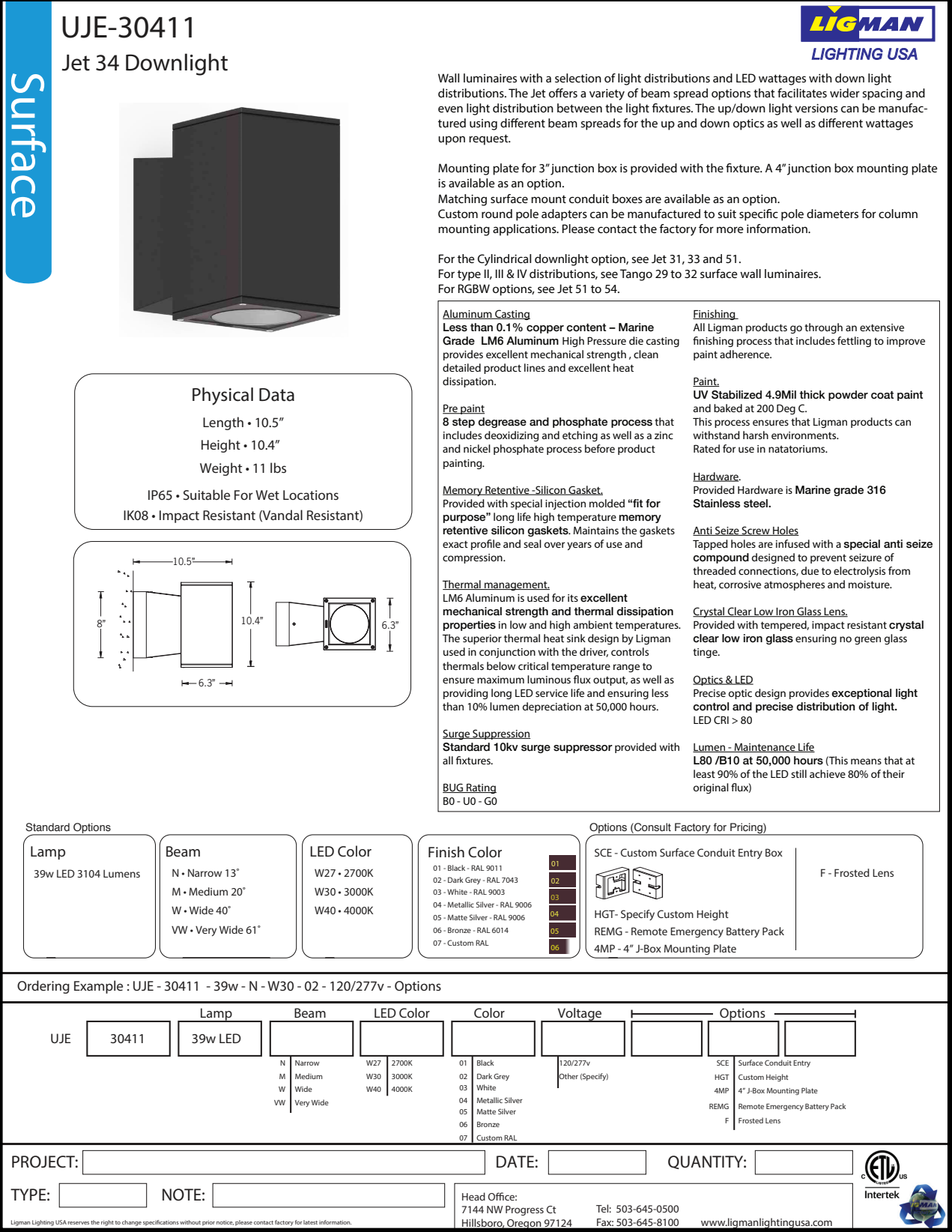


ARCADE LIGHTING PHOTOMETRICS

TYPE L1

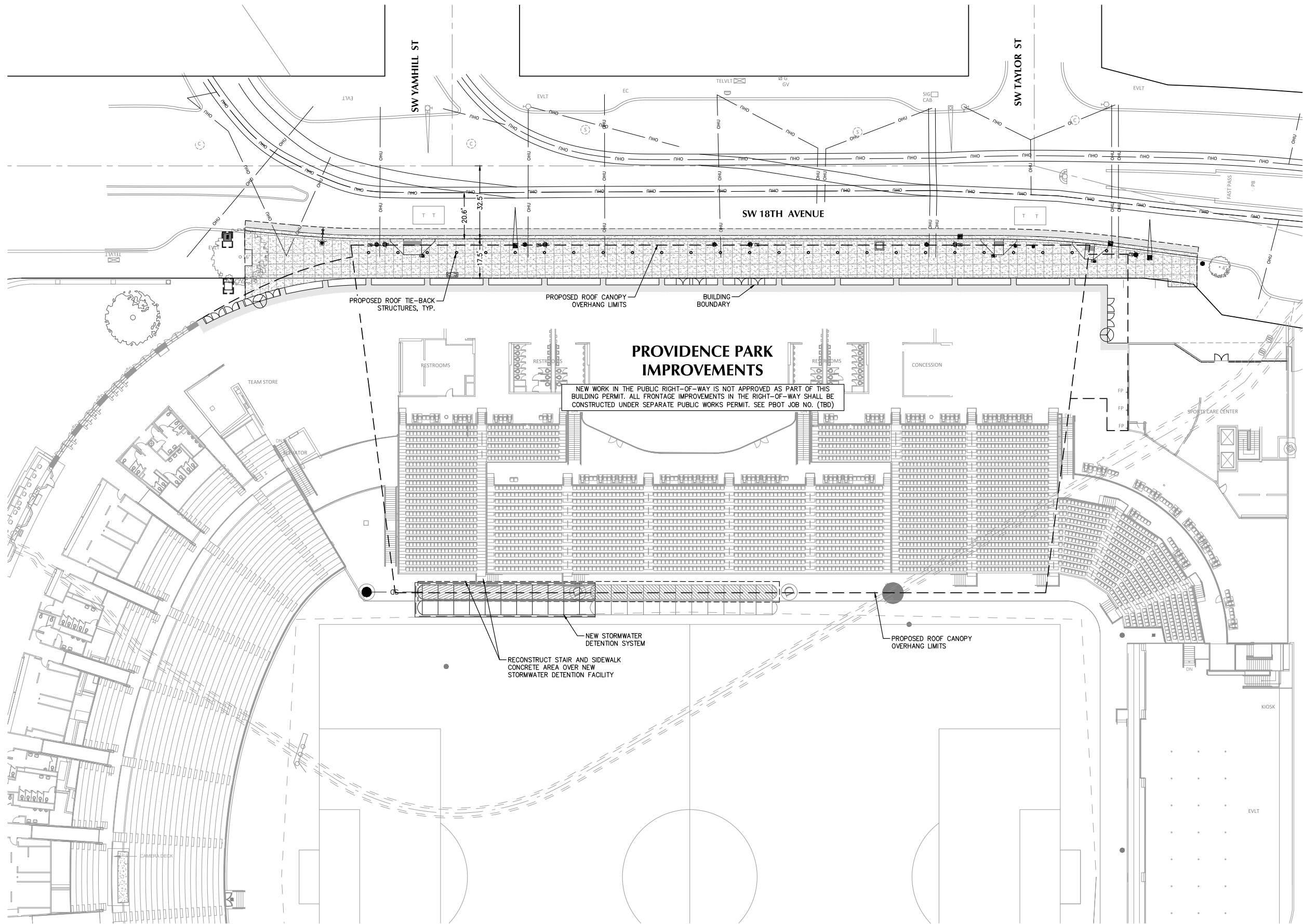


TYPE L2

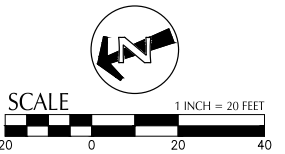


ARCADE LIGHT FIXTURE

00379-PF01-CAD\PL01\ON SITE\16379-2-SITE.dwg TAB: C200
3:20pm By: SSoatino



- 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).



CIVIL SITE PLAN

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.



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:

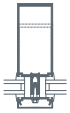
Air Performance	ASTM E-283
Static Water Penetration	ASTM E-331
Dynamic Water Penetration	AAMA 501.1
Structural Performance	ASTM E-330
"U" Value, CRF	AAMA 1503.1
Sound Transmission Rating	ASTM E 90-90
Seismic Performance	AAMA 501.4

For the Finishing Touch

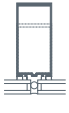
Permadonic Anodized finishes are available in Class I and Class II in seven different colors.

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.



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

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

CURTAIN WALL SYSTEM



ORNILUX
Bird Protection Glass



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



See Product Overview



BIRD FRIENDLY GLAZING

MATERIALS / CUT SHEETS



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	<ul style="list-style-type: none">IBC and IRC (2006, 2009, 2012)ASHRAE 90.1-2010
Construction Types and Fire Resistance	<ul style="list-style-type: none">I-V, NFPA 285 tested for types I-IVASTM 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

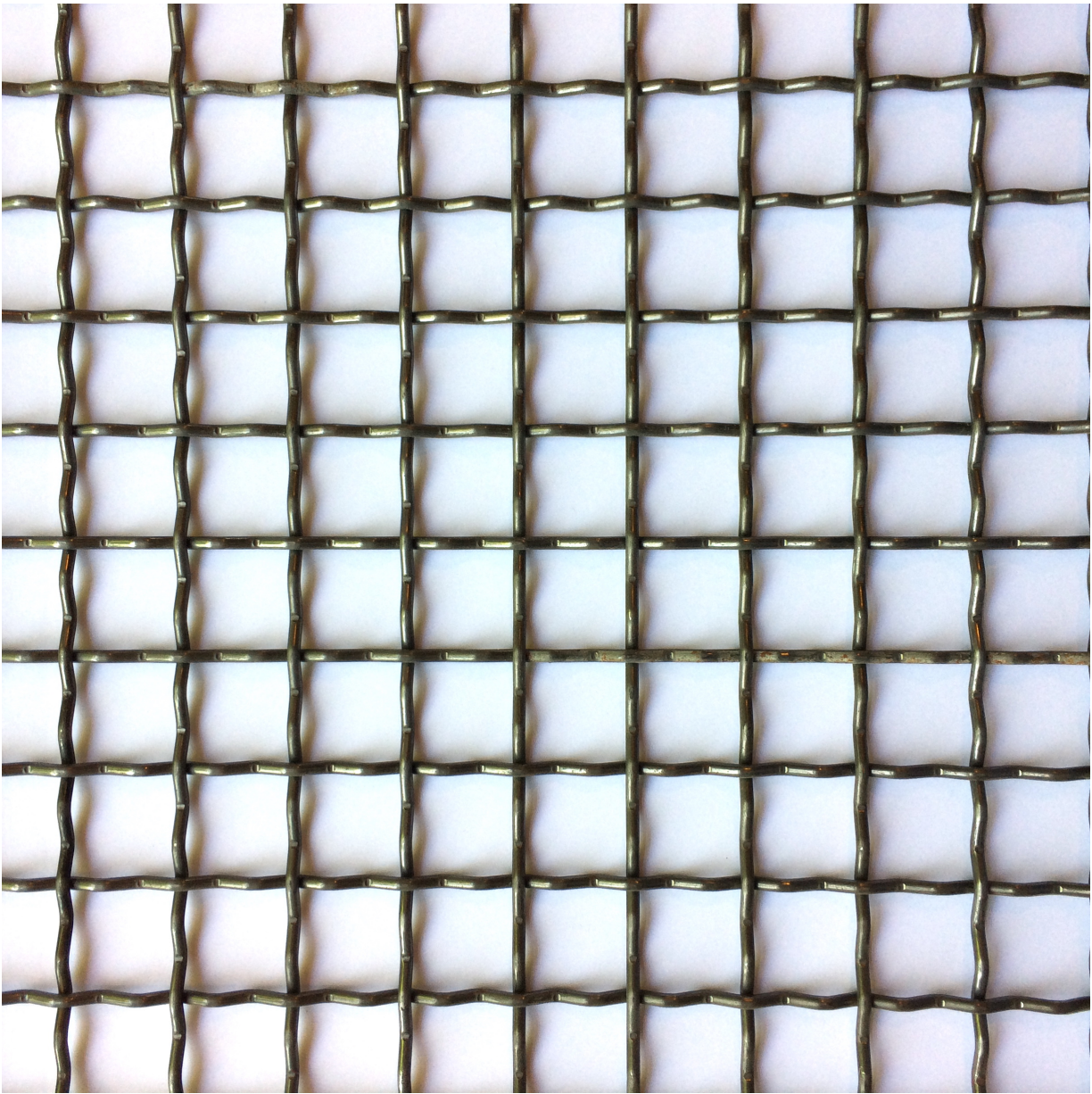


BOARD FORM CONCRETE
2011 CONCOURSE FINISH



BOARD FORM CONCRETE
HISTORIC 1923 FINISH

MATERIALS / CUT SHEETS



RAILING MESH

Sheerfill®

Fiberglass coated with Teflon® Architectural Membrane

*The Name Behind
the LandmarksSM*

...is now 40+ years old!

2013

SAINT-GOBAIN

Moses Mabhida Stadium, Durban, South Africa 2009

Shanghai Stadium, Shanghai, China 1997

1973
Student Union Building, La Verne, California USA

Florida Hospital Waterman, Tavares, Florida USA

**Self-cleaning.
Low-maintenance.**

PTFE (Teflon®) surfaces have very low surface tension. Dirt and dust are easily removed by rain or a cleaning spray of water. The membrane's self-cleaning surface will require very little, if any, maintenance during its lifetime...and it will NEVER need painting!

Furthermore, there is NO relaxation of the membrane from its original shape, even after years of withstanding high, live loads, such as heavy snows, winds, or continuous exposure to sunlight and warmer temperatures. The fabric remains dimensionally stable in temperatures from -100°F to 450°F (-73°C to 232°C). Consequently, re-tensioning of the fabric will not be required throughout its service life.

Noncombustible.

Sheerfill is manufactured using two noncombustible materials—fiberglass and PTFE (Teflon®). The resulting composite meets or exceeds the most stringent fire codes throughout the world. Acceptance of Sheerfill as a permanent roofing material is based on its ability to meet the same tests as any conventional roofing material. When safety is a top concern, the solution is always Sheerfill.

Rosa Parks Transit Center, Detroit, Michigan USA

ROOF CANOPY - PTFE FIBERGLASS MEMBRANE

MATERIALS / CUT SHEETS

APPENDIX - “A” EXHIBITS





MULTNOMAH • STADIUM
PORTLAND • OREGON ~
MORRIS • H • WHITEHOUSE • & ASSOCIATES • AND • A • E • DOYLE • - ASSOCIATE • ARCHITECTS • -

MULTNOMAH STADIUM (c. 1920)

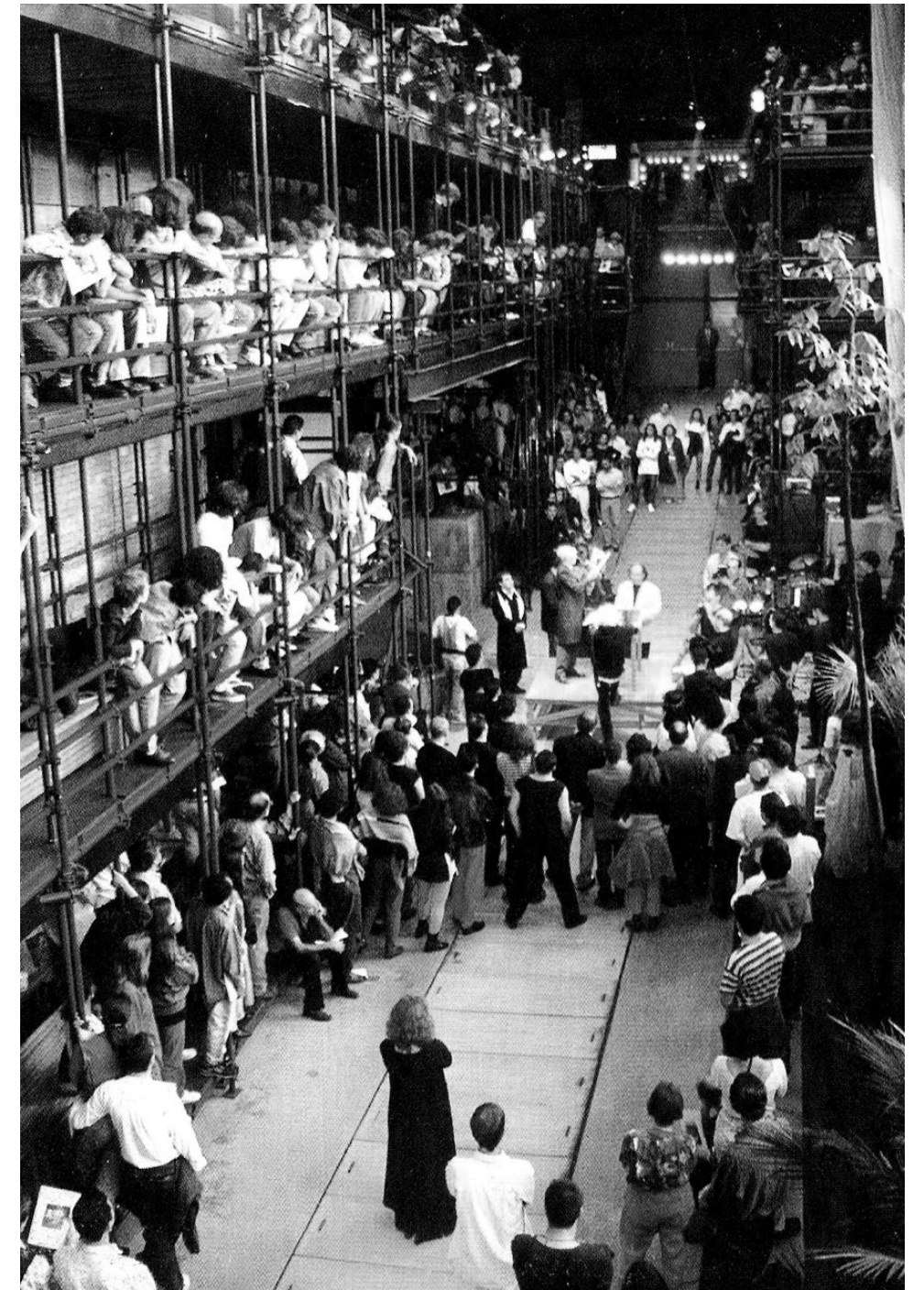


LA BOMBONERA STADIUM / BOCA JUNIOR FC

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

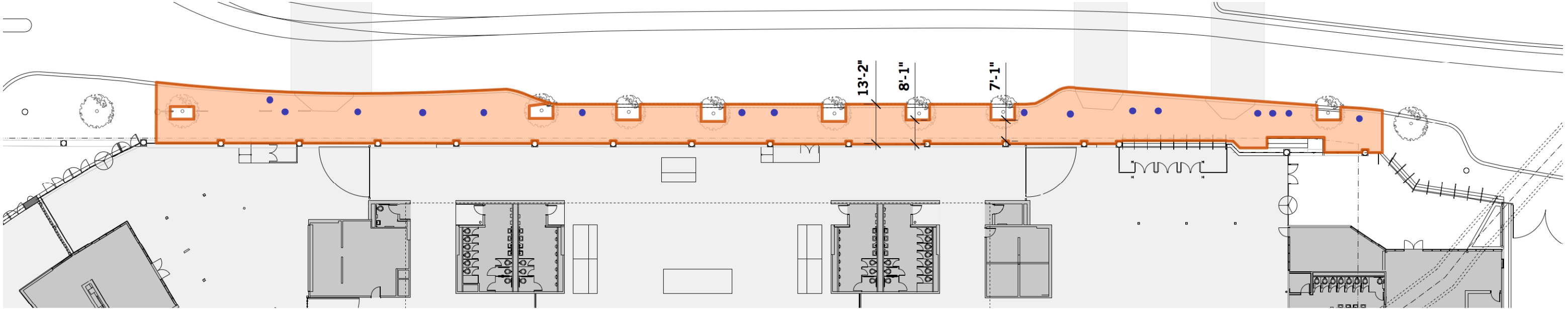


EXISTING SW 18TH AVE SIDEWALK

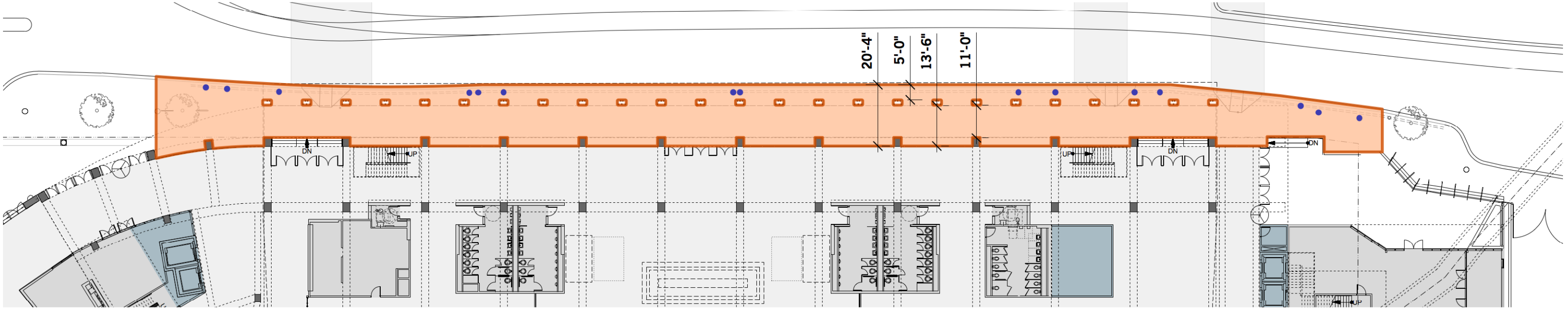


IMPROVED SW 18TH AVE SIDEWALK

SW 18TH AVE RIGHT OF WAY

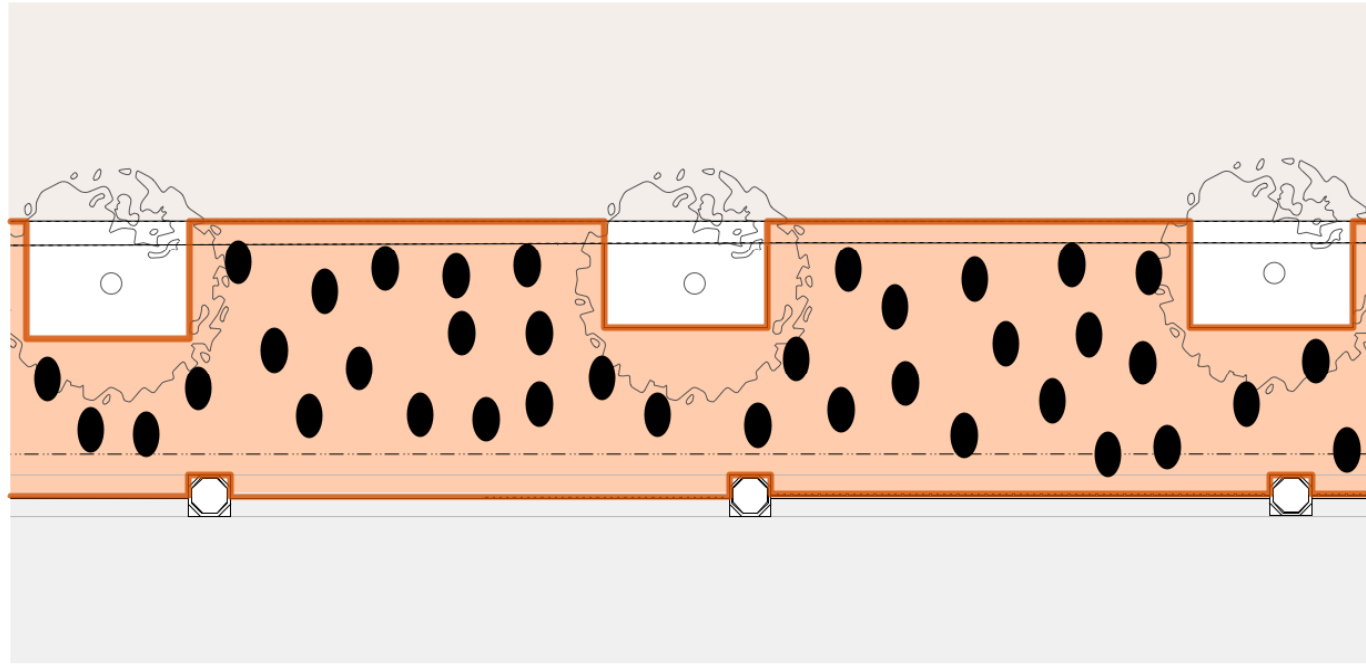


EXISTING PUBLIC SIDEWALK

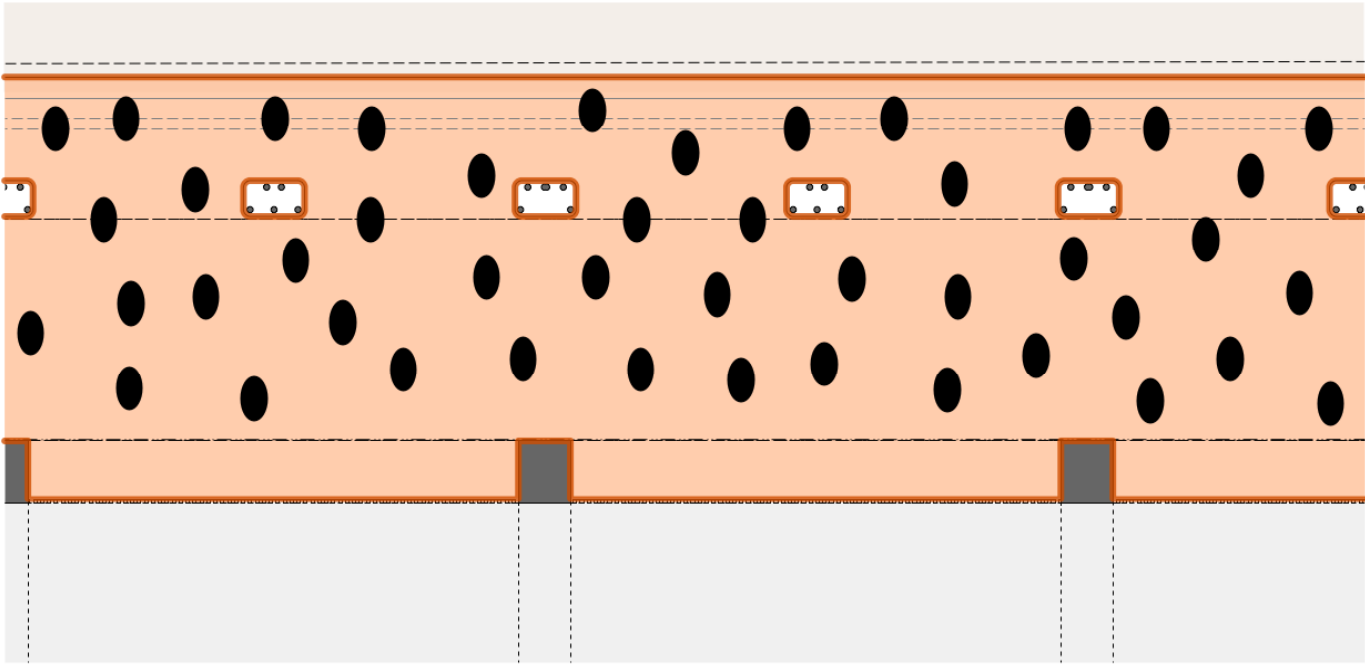


PUBLIC SIDEWALK WITH NEW ARCADE

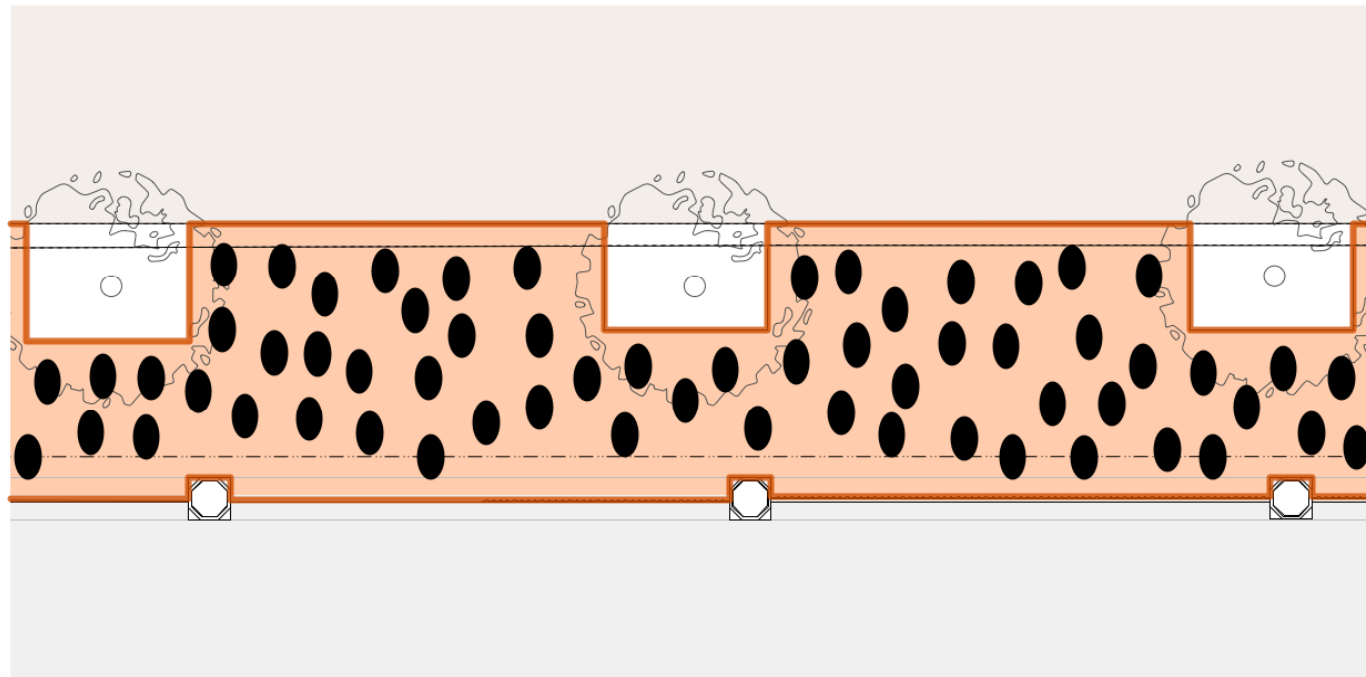
SW 18TH AVE - RIGHT OF WAY IMPROVEMENTS



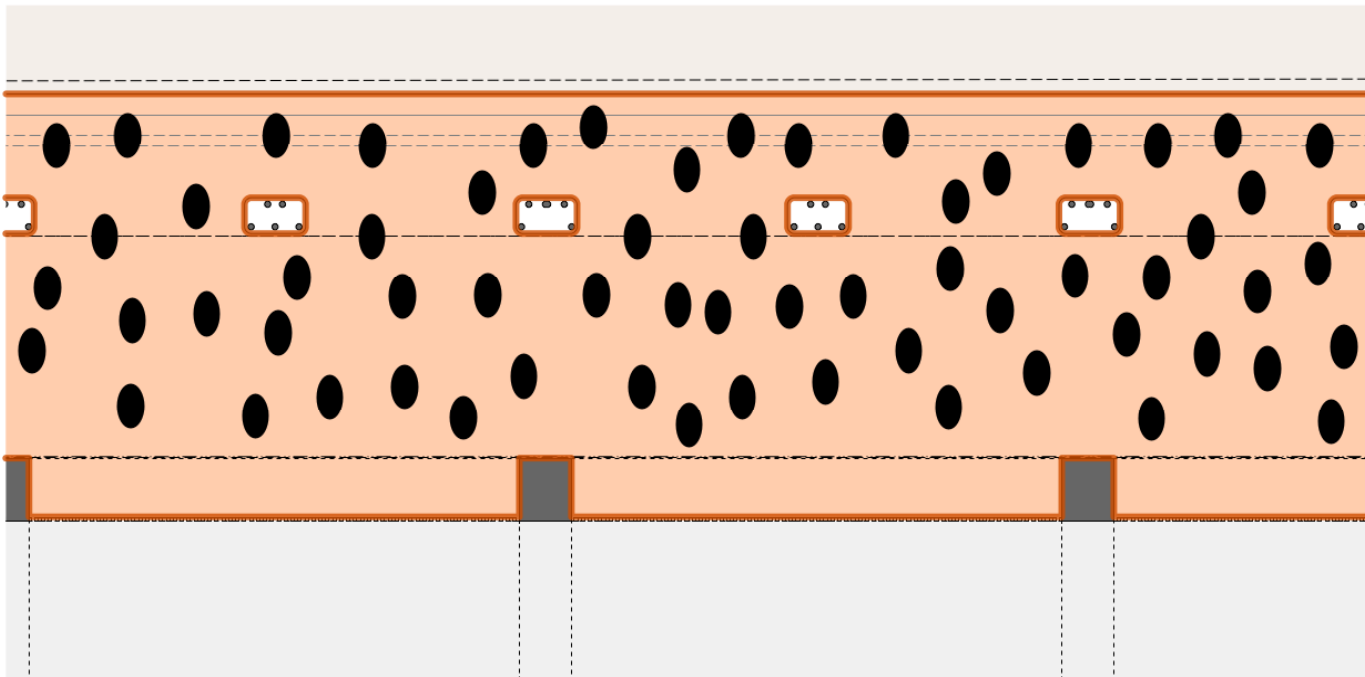
EXISTING INGRESS DENSITY
 ACCOMMODATES APPROX. 3,200 PATRONS
 20.79 FT² PER PEDESTRIAN



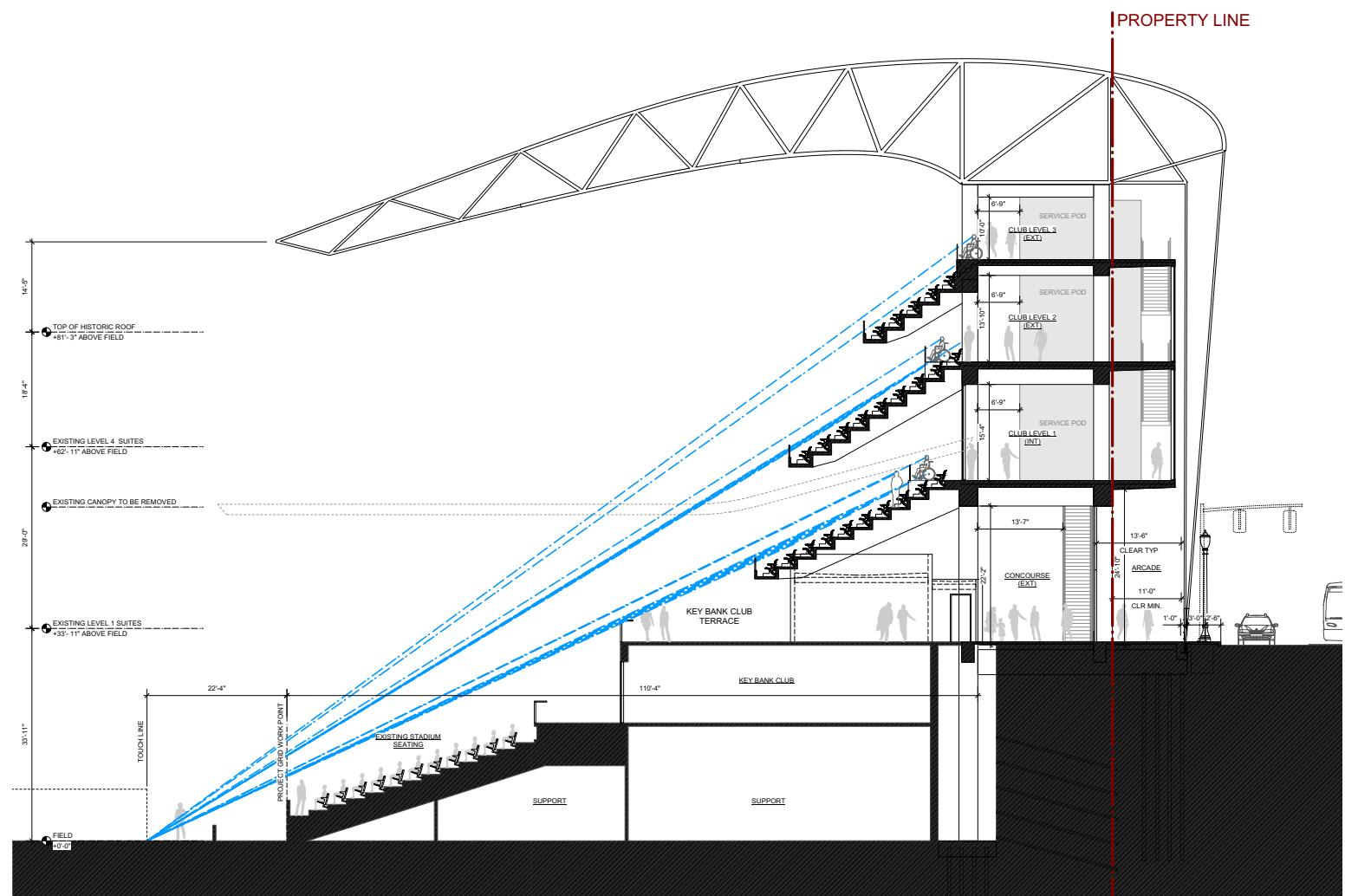
NEW INGRESS DENSITY
 ACCOMMODATES APPROX. 7,200 PATRONS
 24.38 FT² PER PEDESTRIAN (38% MORE SPACE)



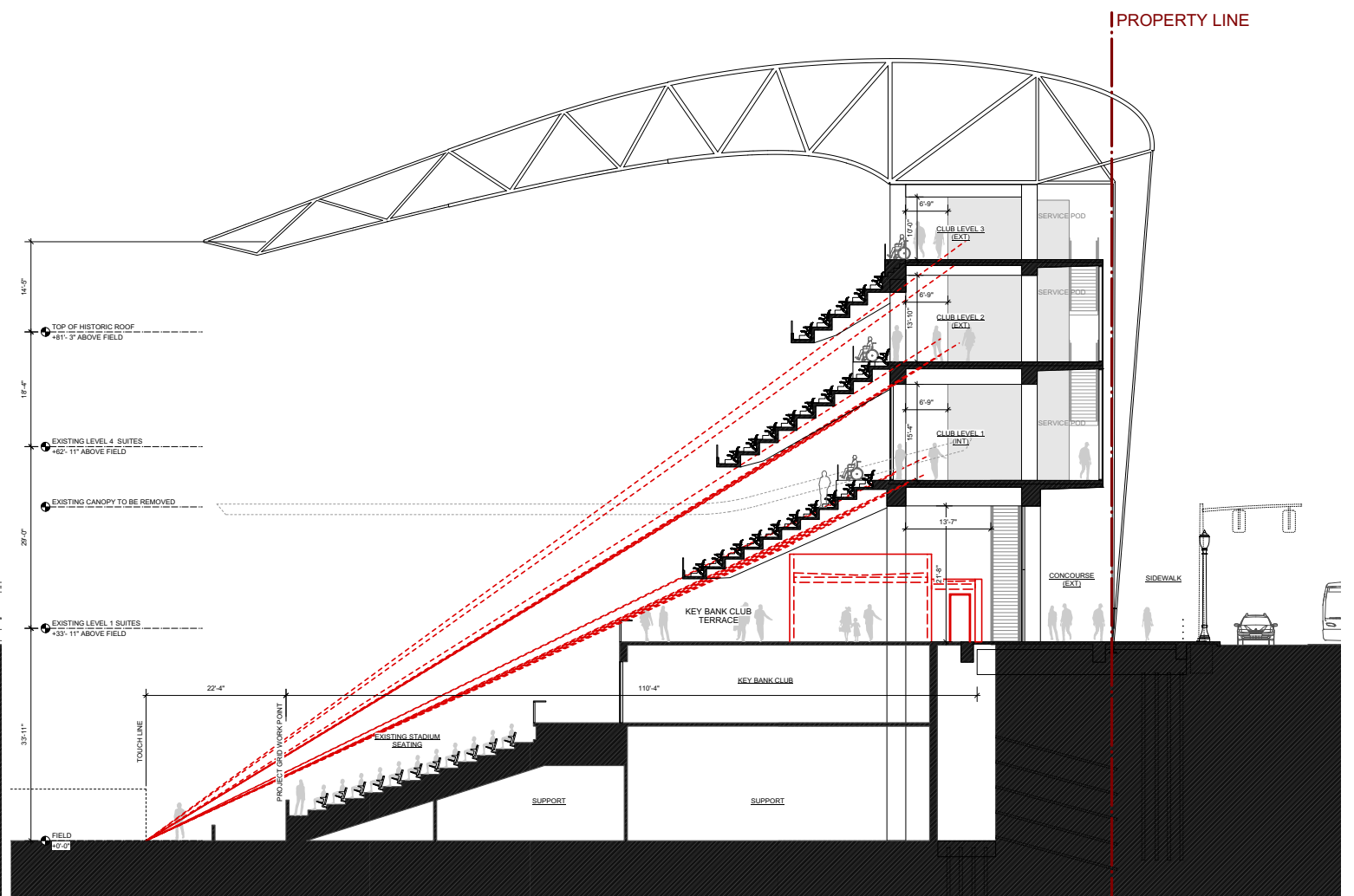
EXISTING EGRESS DENSITY
 ACCOMMODATES APPROX. 4,900 PATRONS
 13.00 FT² PER PEDESTRIAN



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

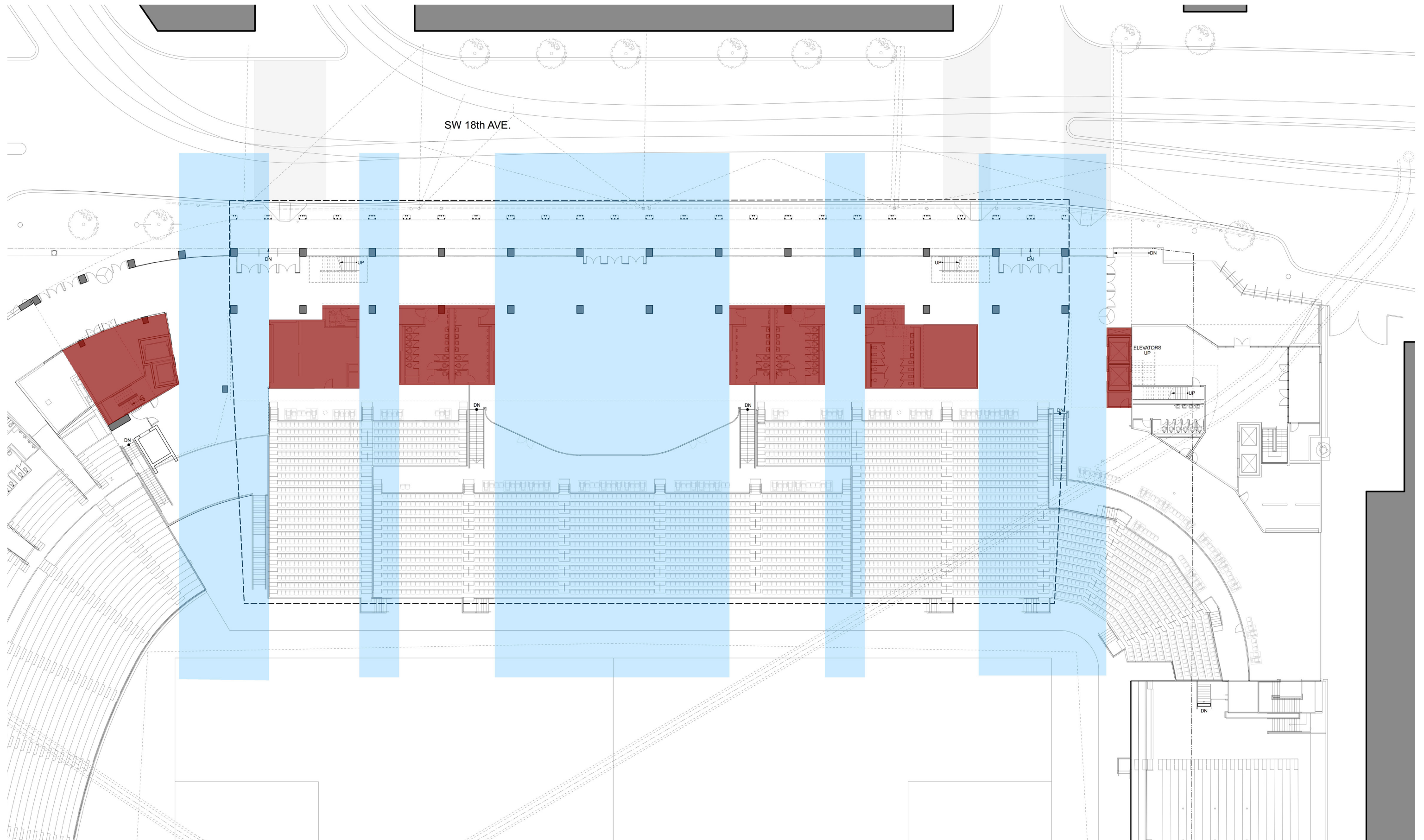


RETAIN EXISTING STREET LEVEL CONCESSIONS BUILDINGS AND ARTWORK

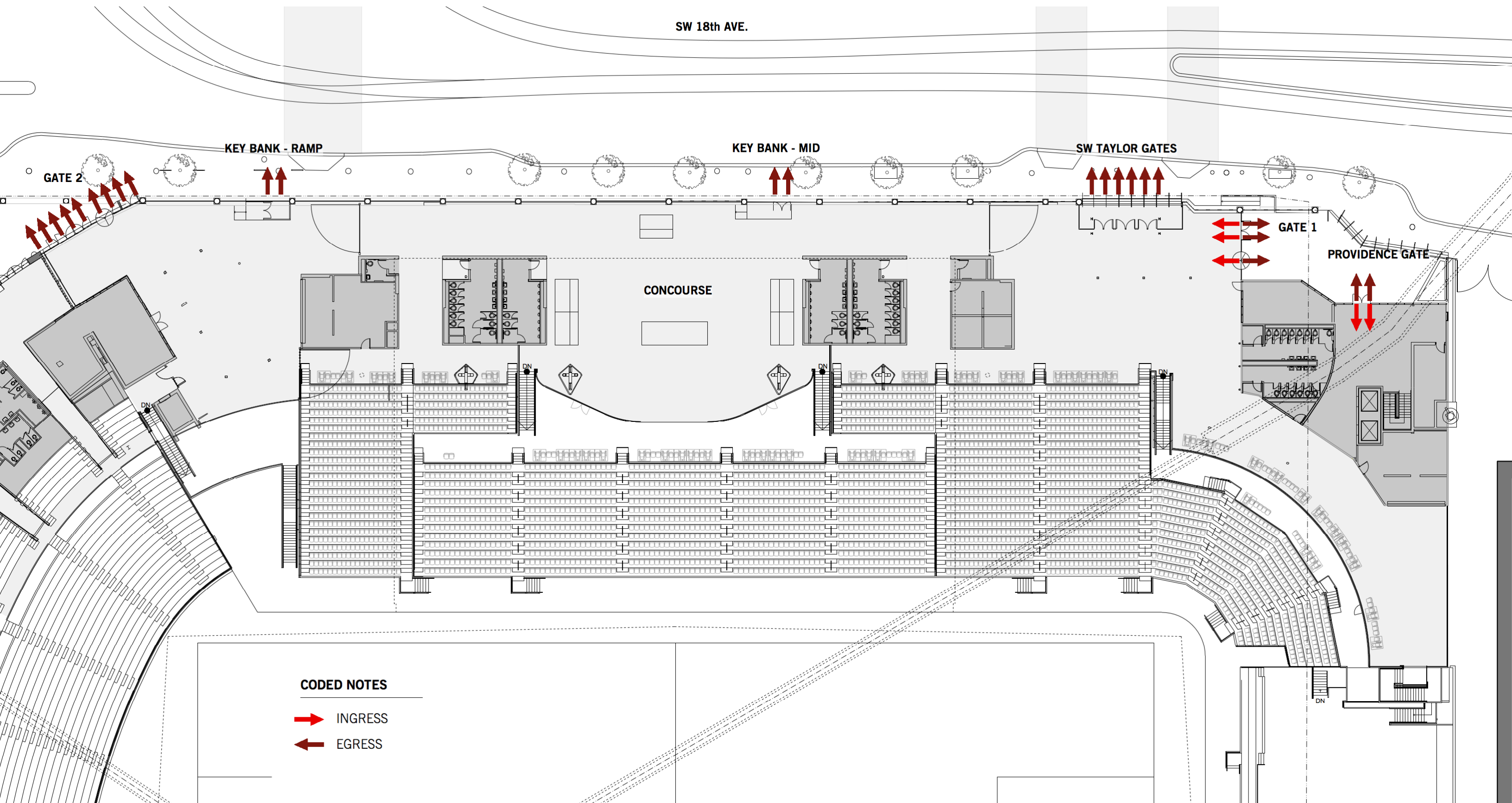


INEFFECTIVE SIGHTLINES
REMOVAL OF ALL EXISTING STREET LEVEL CONCESSIONS BUILDING

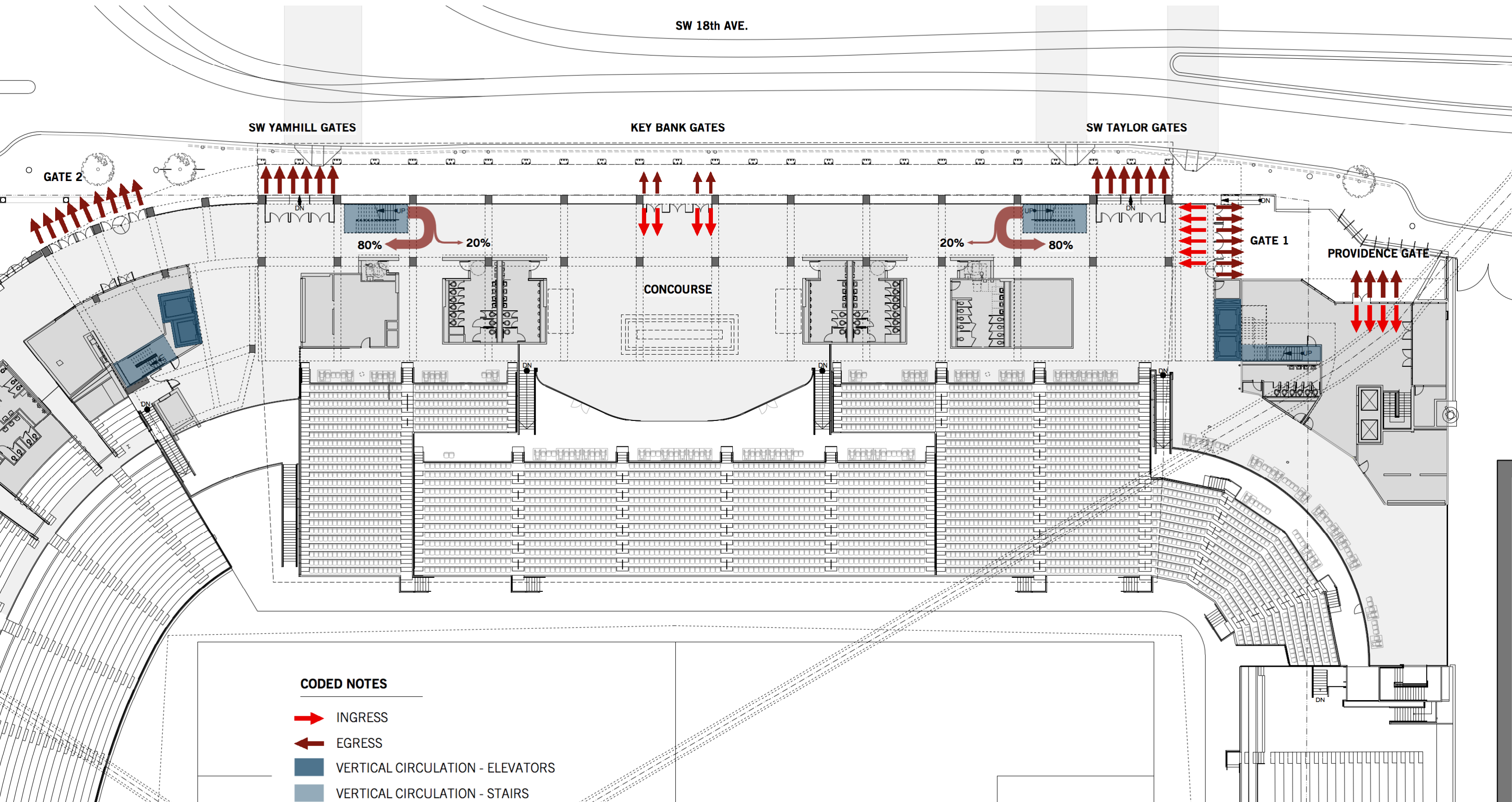
ARCADE VS. NON-ARCADE STUDY



ARCANE VIEW SHED



CROWD MOVEMENT DIAGRAM - EXISTING



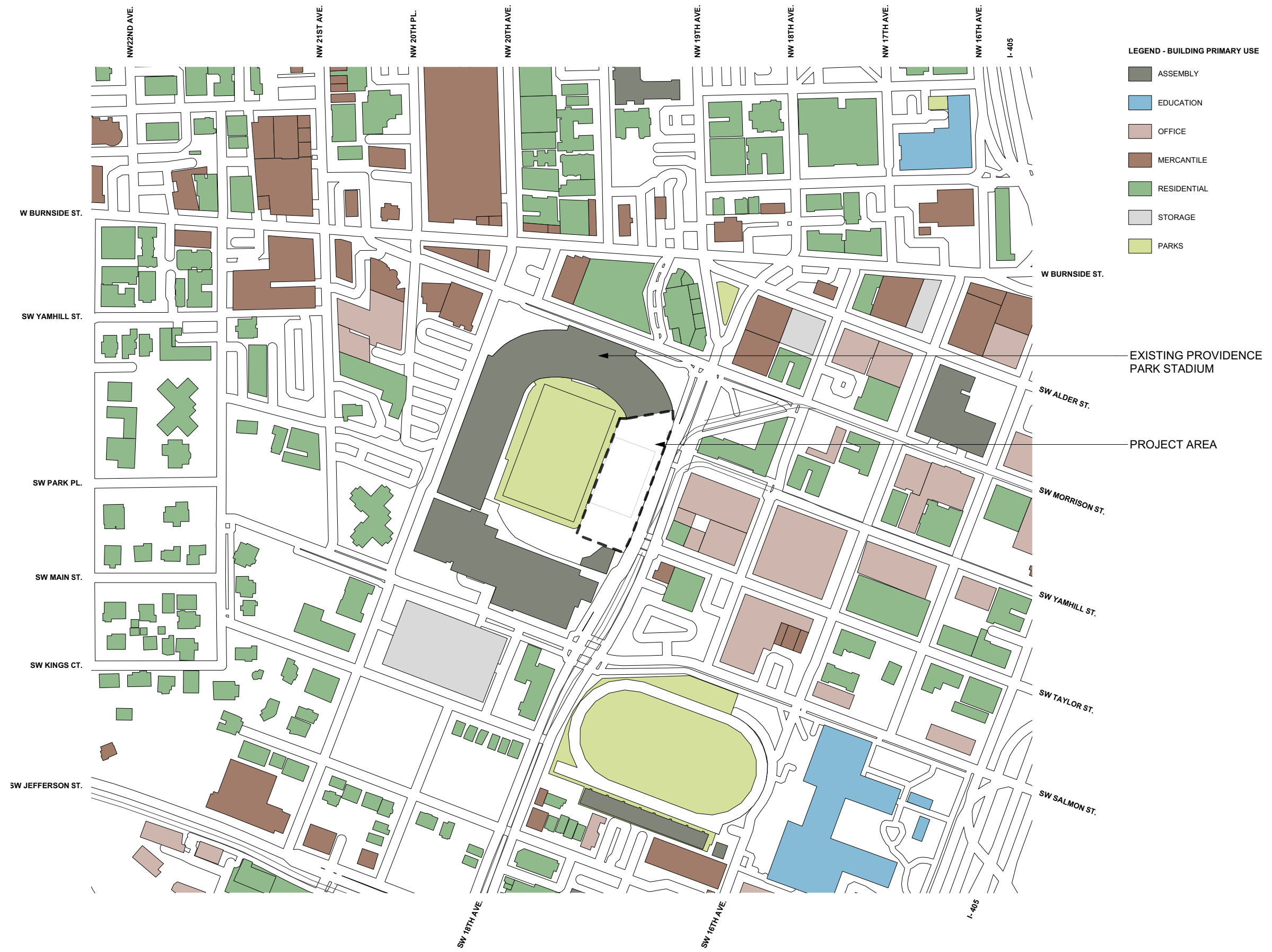
CROWD MOVEMENT DIAGRAM - NEW



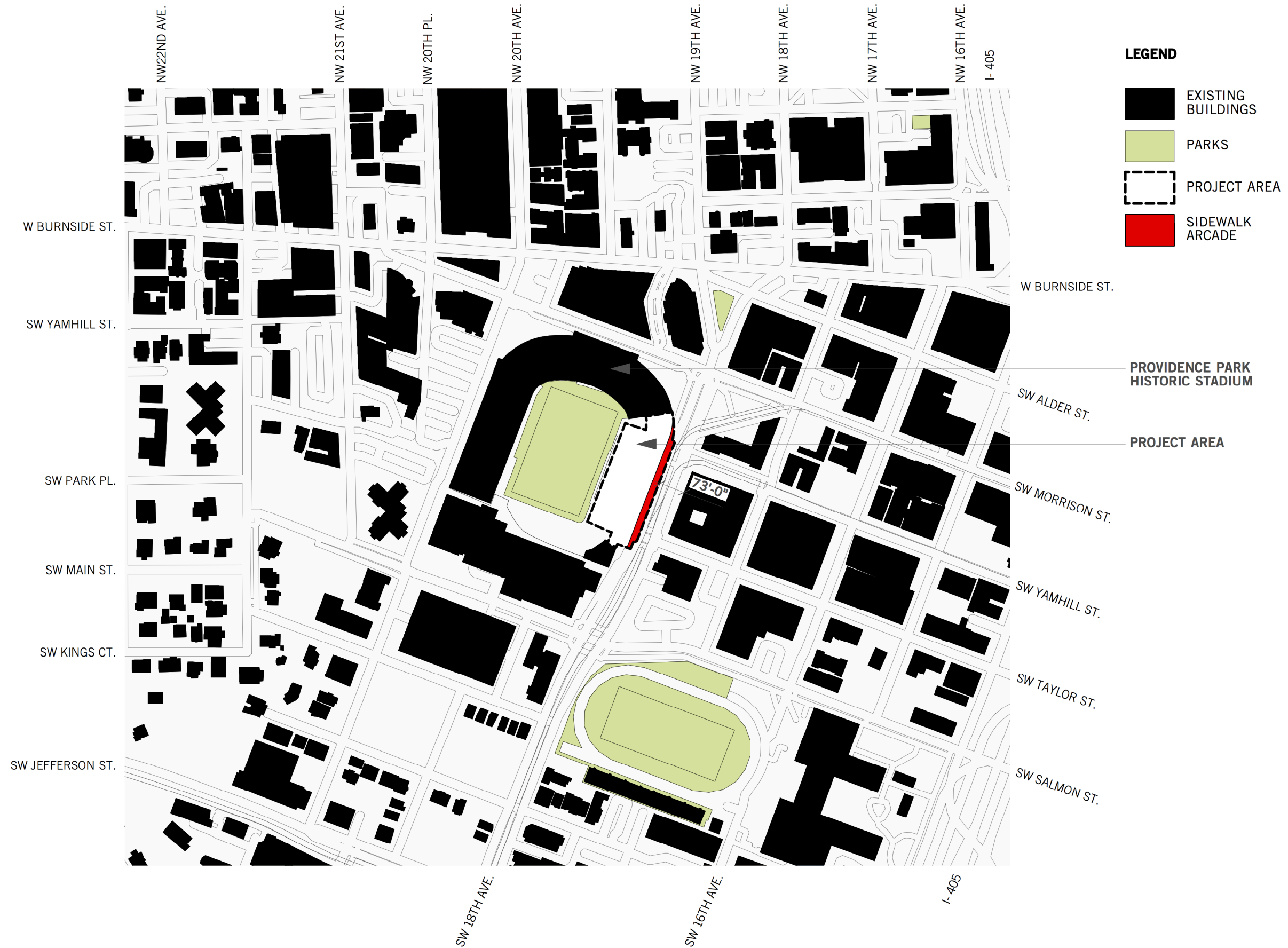
VIEW FROM SW TAYLOR



FIELD VIEW



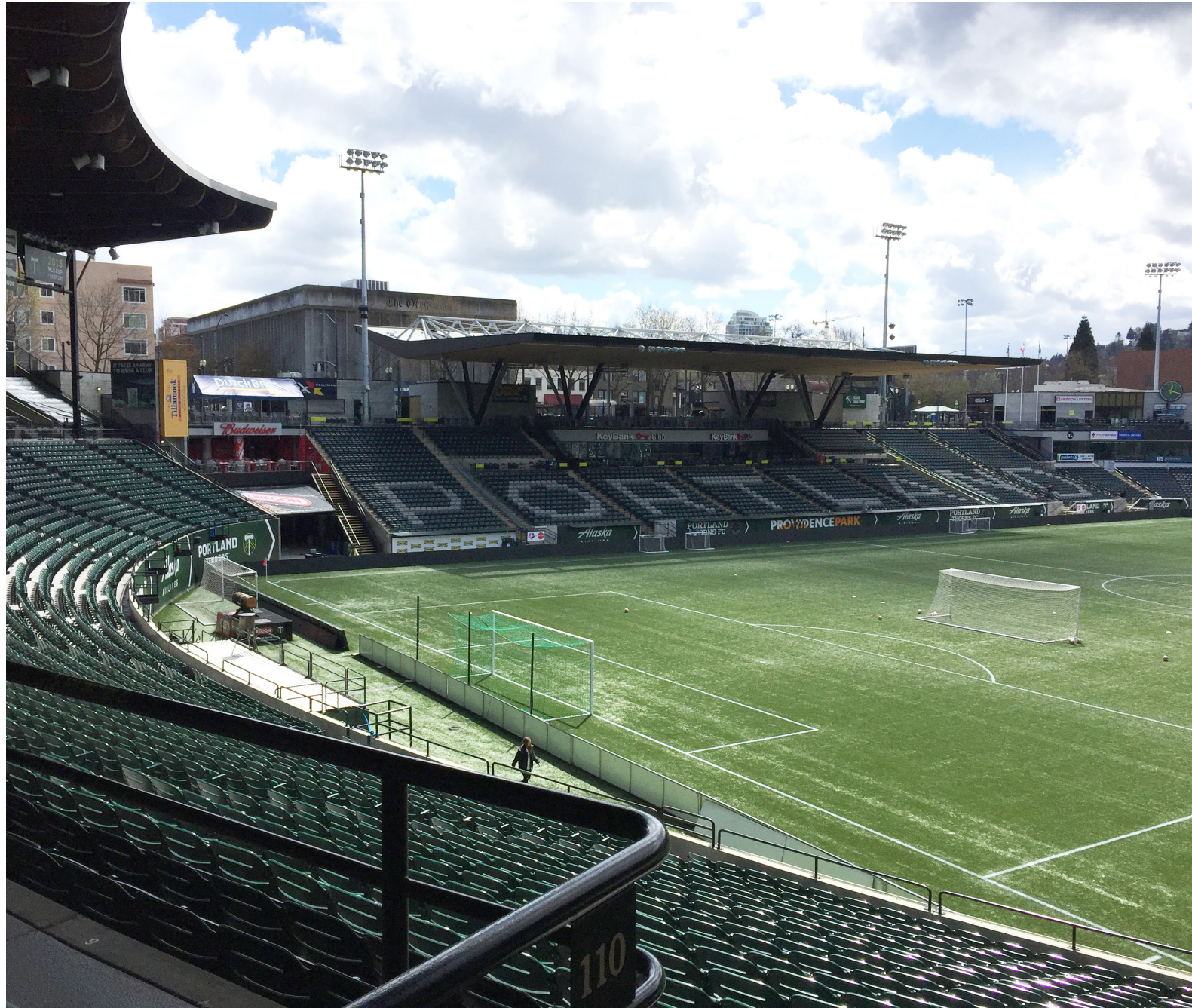
VICINITY PLAN



OPEN SPACE DIAGRAM



HISTORIC STADIUM IMAGES



2011 STADIUM EXPANSION IMAGES



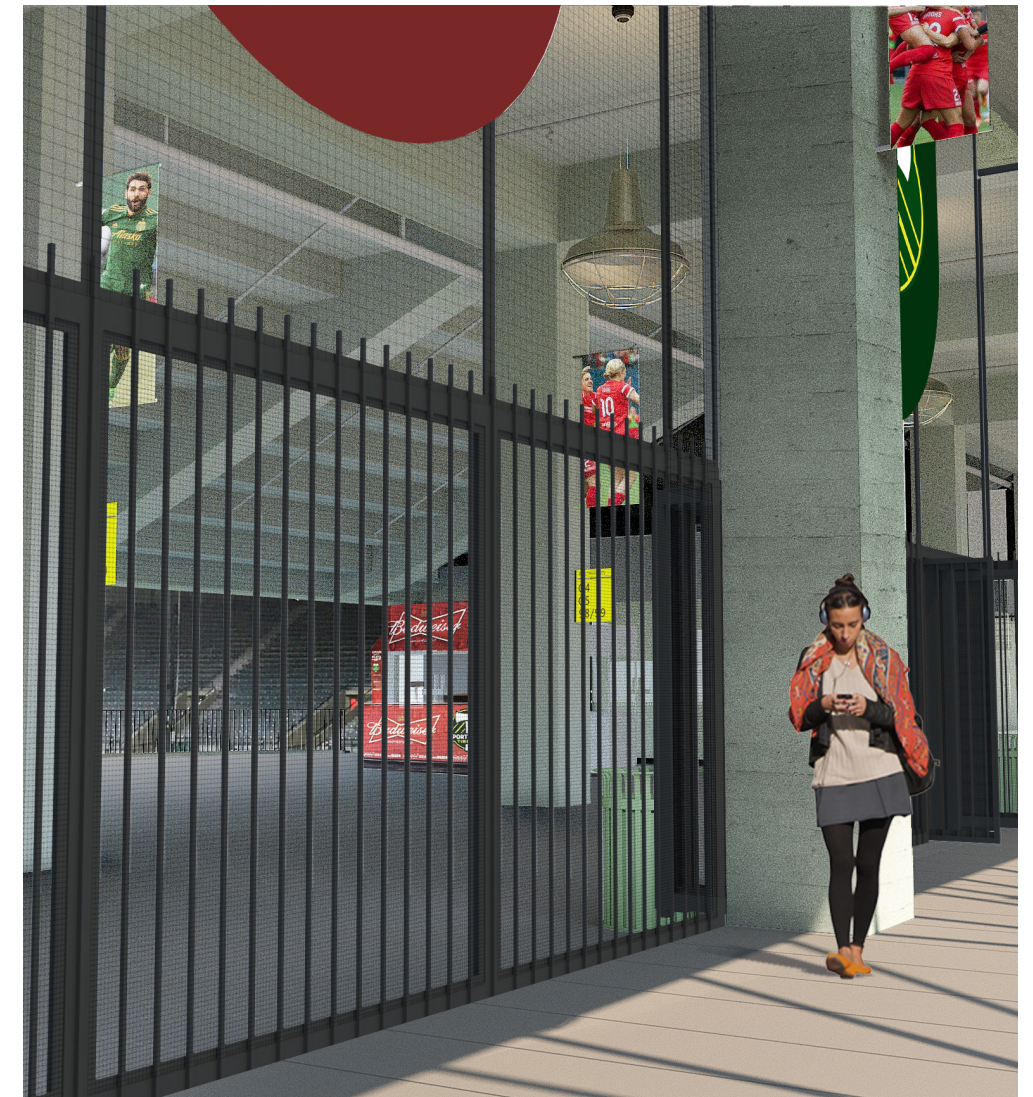
EXISTING FENCE PHOTOS



ALTERNATE B FENCE DESIGN



ALTERNATE A FENCE DESIGN



PROPOSED FENCE DESIGN



HISTORIC STADIUM CONCOURSE IMAGES

EXPOSED CONCRETE / HISTORIC TREATMENT
CONTINUES CURRENT SPATIAL QUALITY / FINISH THROUGHOUT STADIUM

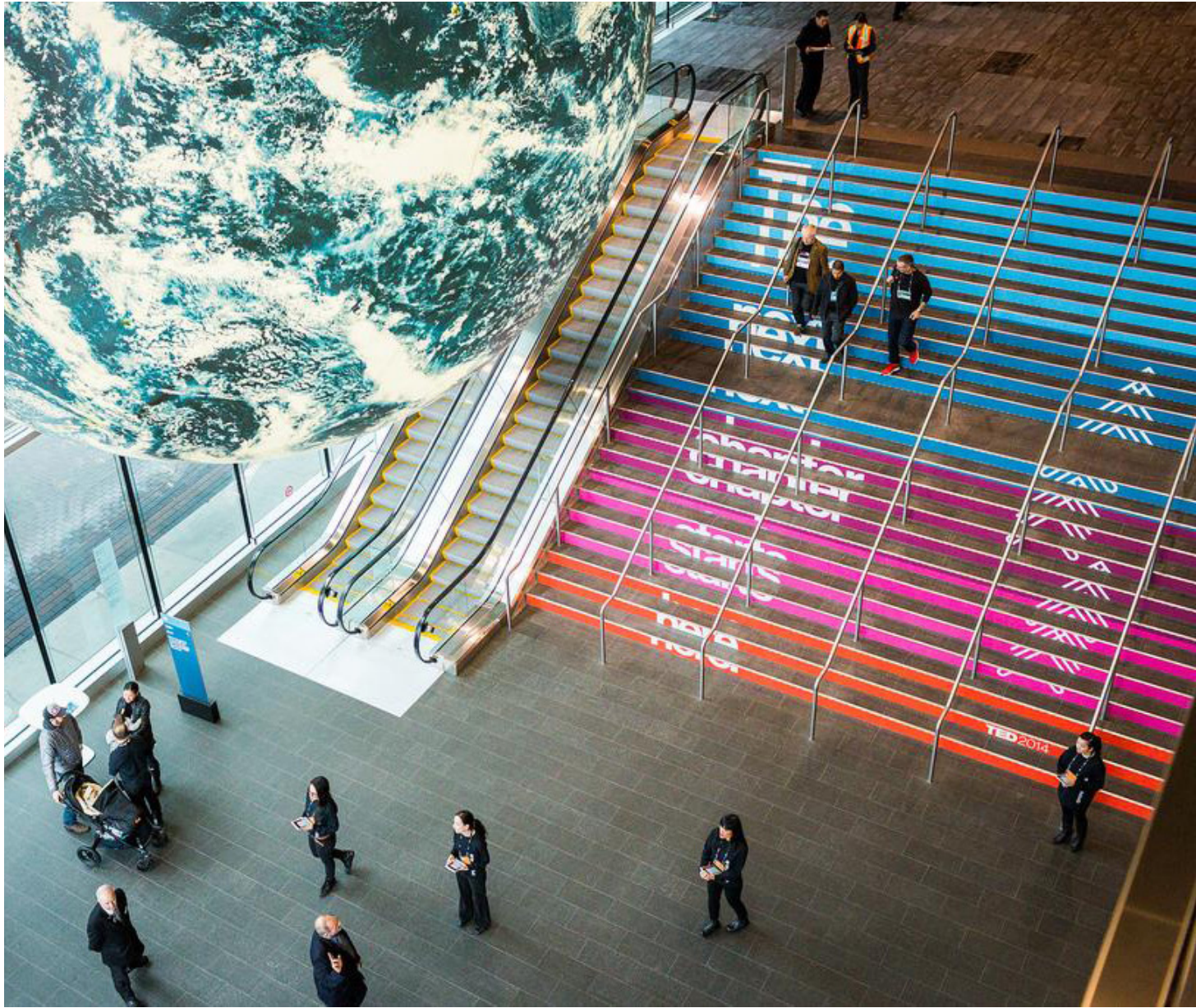
CONTINUES CURRENT SPATIAL QUALITY / FINISH THROUGHOUT STADIUM



RAKER FINISH TREATMENT STUDIES
WOOD INFILL CEILING FINISH
STUDY FOR REFERENCE ONLY - NOT PROPOSED



RAKER FINISH TREATMENT - WOOD



RAKER FINISH TREATMENT STUDIES
ANAMORPHIC GRAPHIC / PROPOSED TREATMENT
EXPANDS PERCEPTION OF CONCOURSE OPENNESS



RAKER FINISH TREATMENT - GRAPHICS

RAKER FINISH TREATMENT STUDIES
ANAMORPHIC GRAPHIC / PROPOSED TREATMENT
EXPANDS PERCEPTION OF CONCOURSE OPENNESS



RAKER FINISH TREATMENT - GRAPHICS

RAKER FINISH TREATMENT STUDIES
 ANAMORPHIC GRAPHIC / PROPOSED TREATMENT
 EXPANDS PERCEPTION OF CONCOURSE OPENNESS



RAKER FINISH TREATMENT - GRAPHICS



RAKER FINISH TREATMENT - GRAPHICS