ROOF DECK PROJECT 22 BOSTON WHARF ROAD

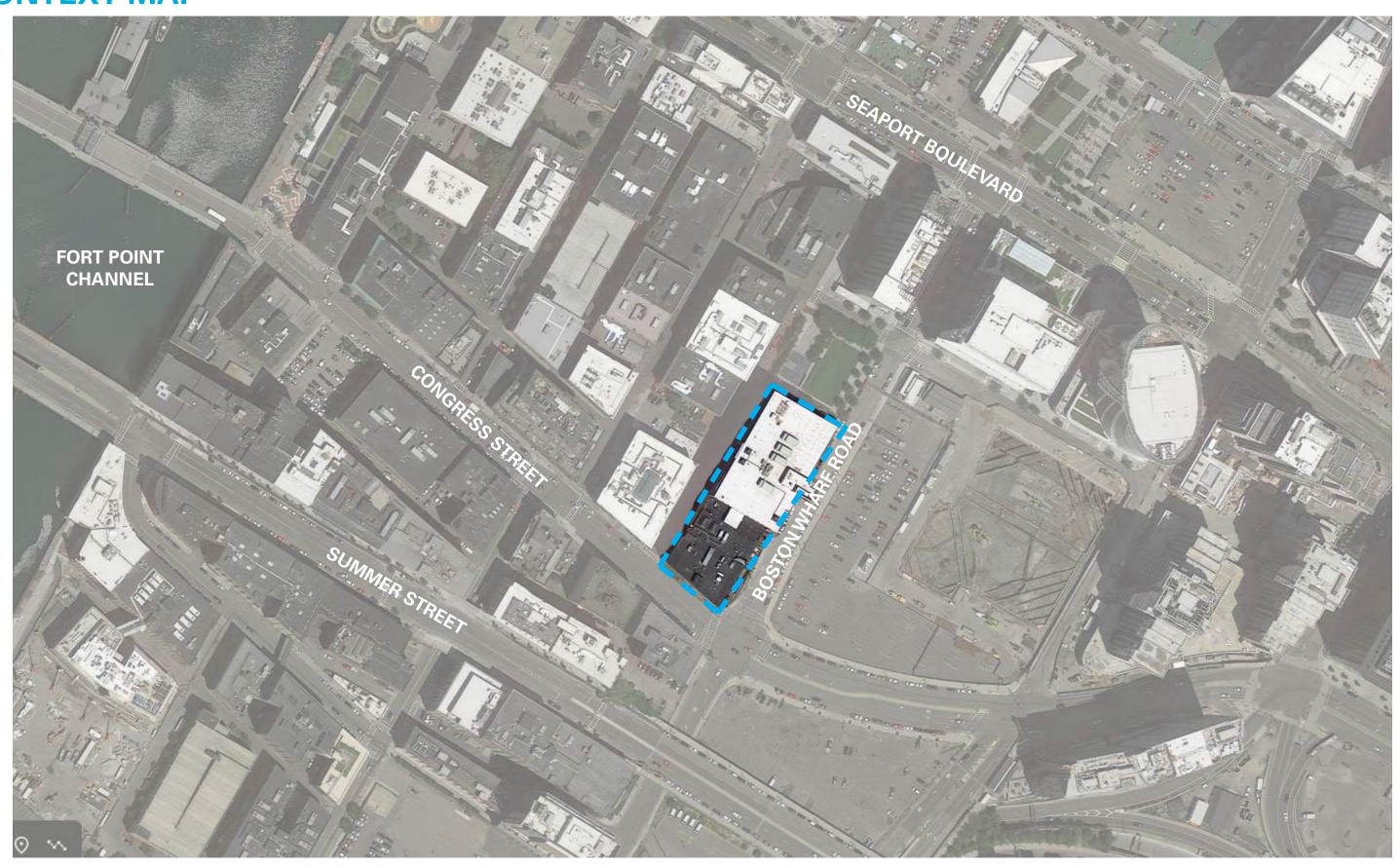
FORT POINT HISTORIC COMISSION SUBMISSION NOVEMBER 24, 2020





EXISTING CONDITIONS

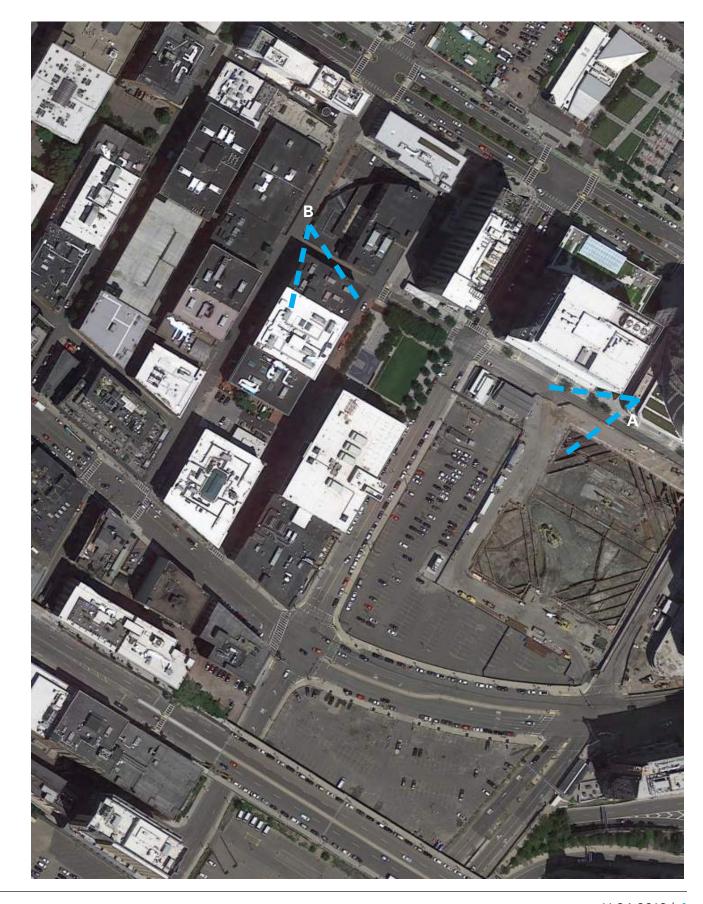
CONTEXT MAP



EXISTING CONDITIONS

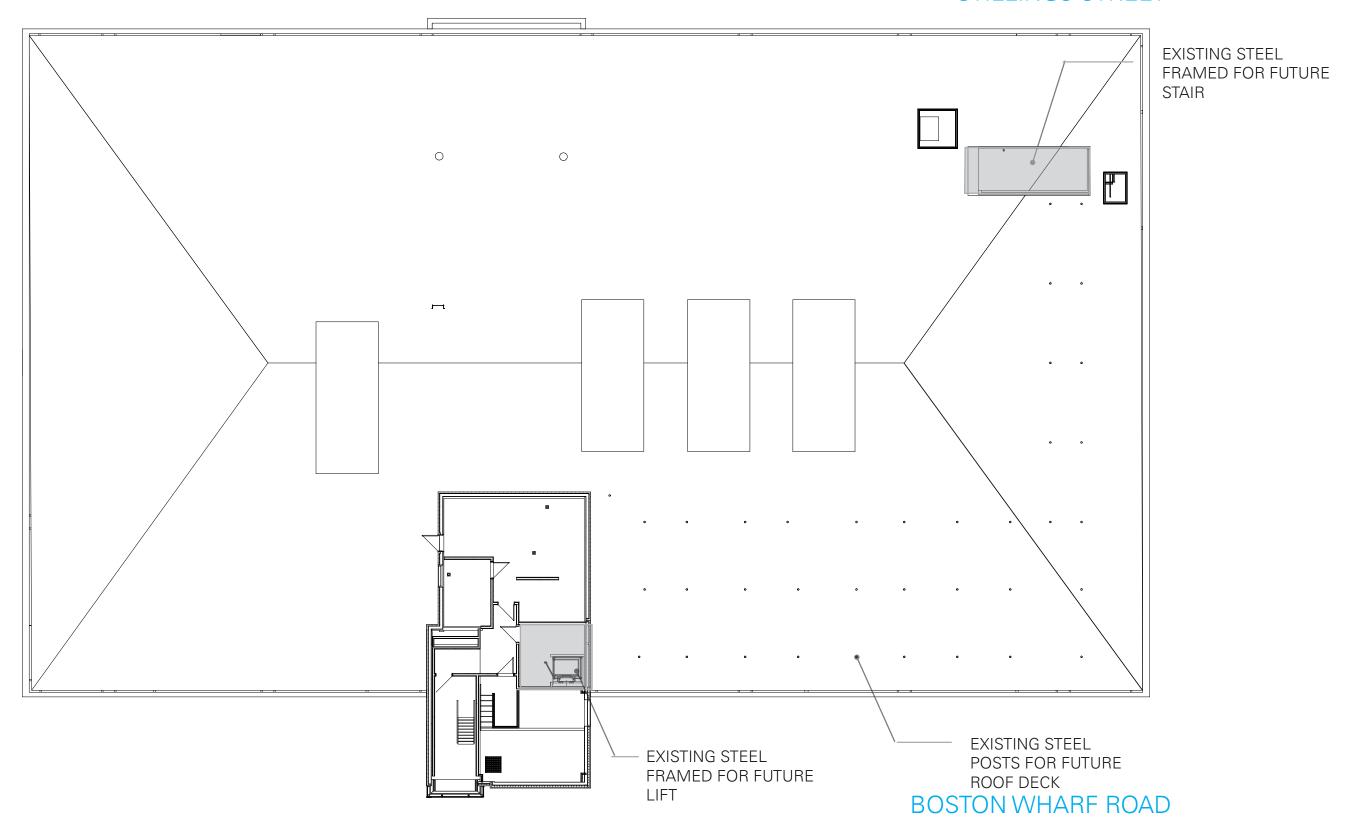






EXISTING CONDITIONS ROOF PLAN

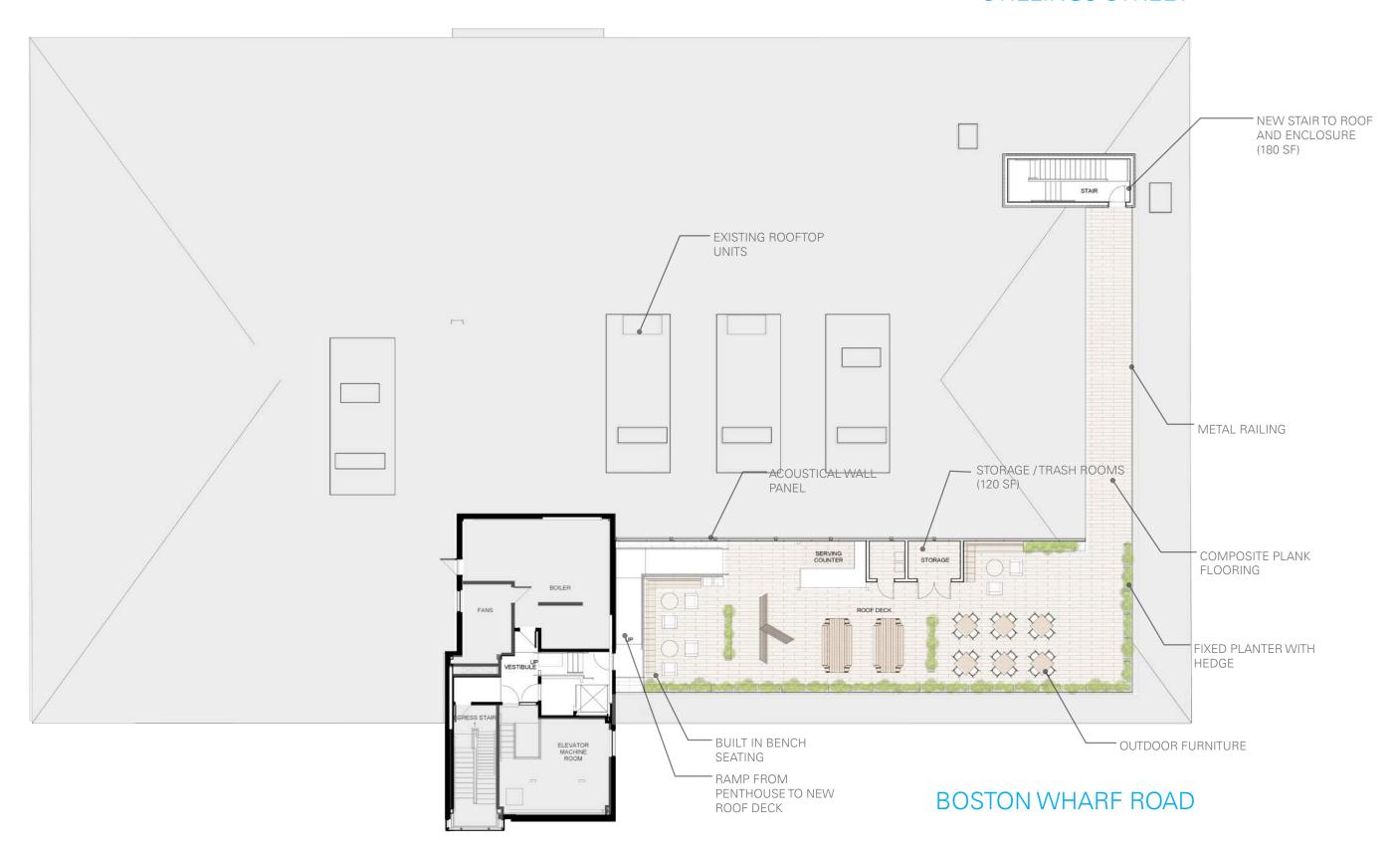
STILLINGS STREET



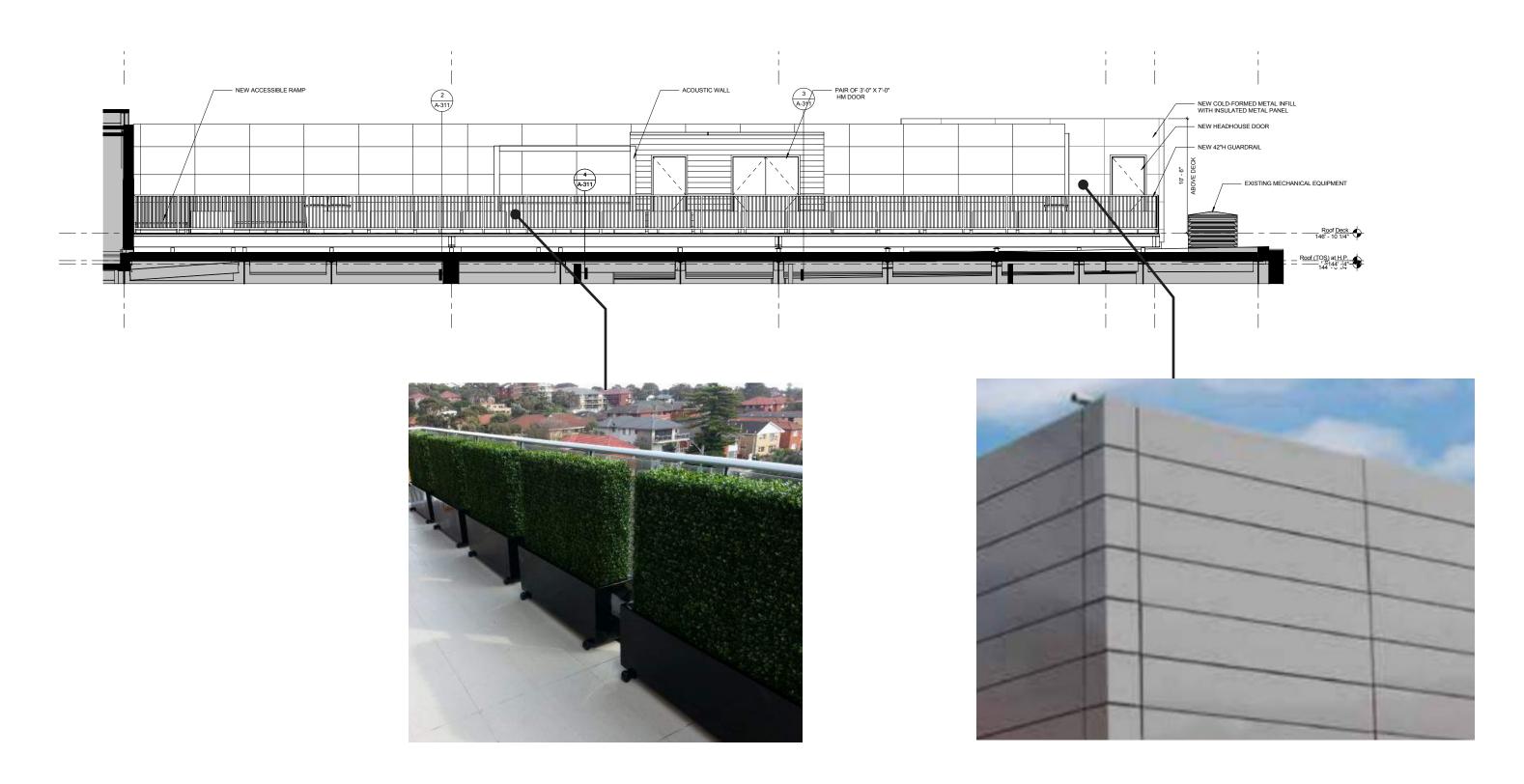
ROOF DECK DESIGN

FLOOR PLAN ROOF DECK

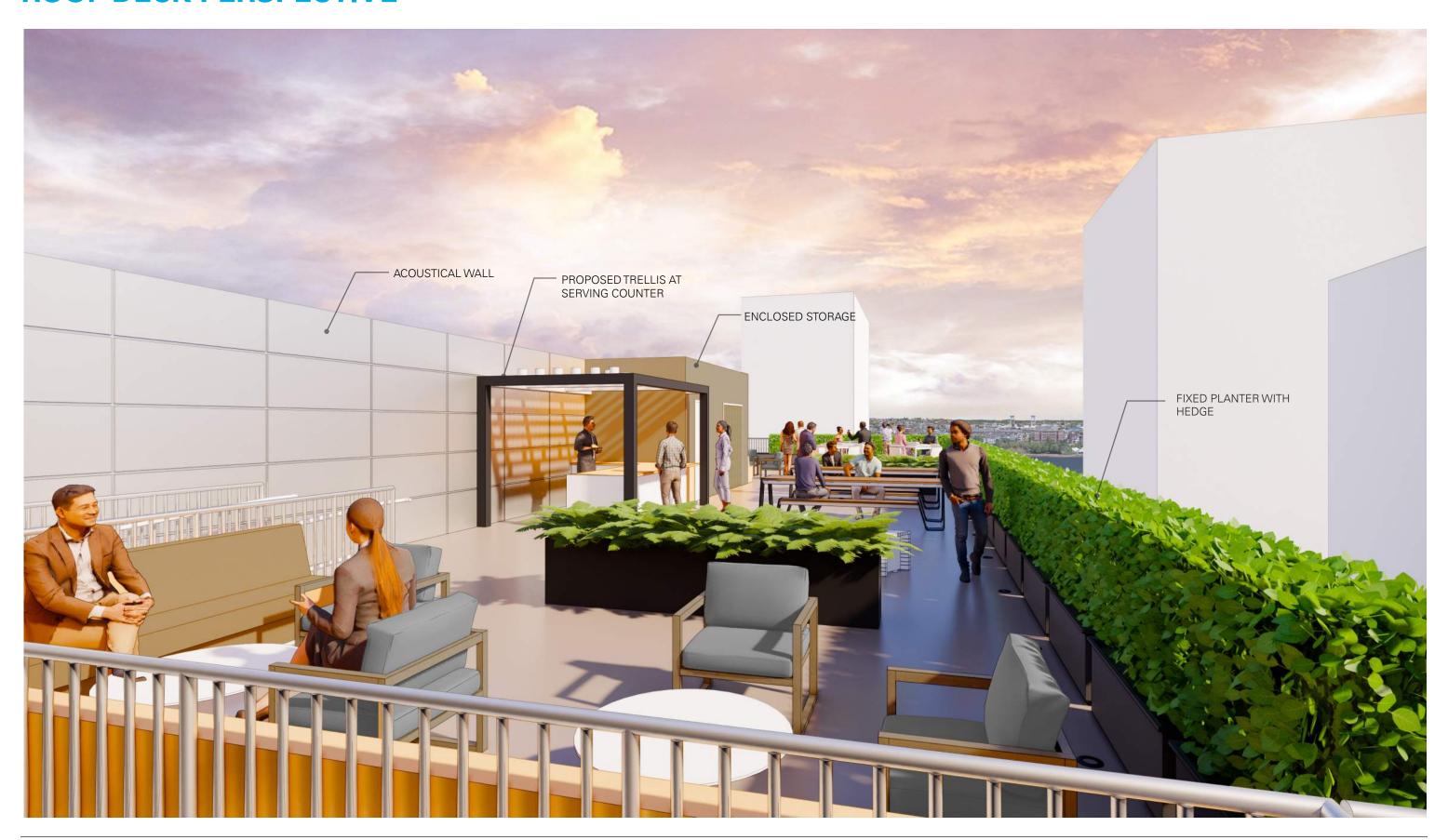
STILLINGS STREET



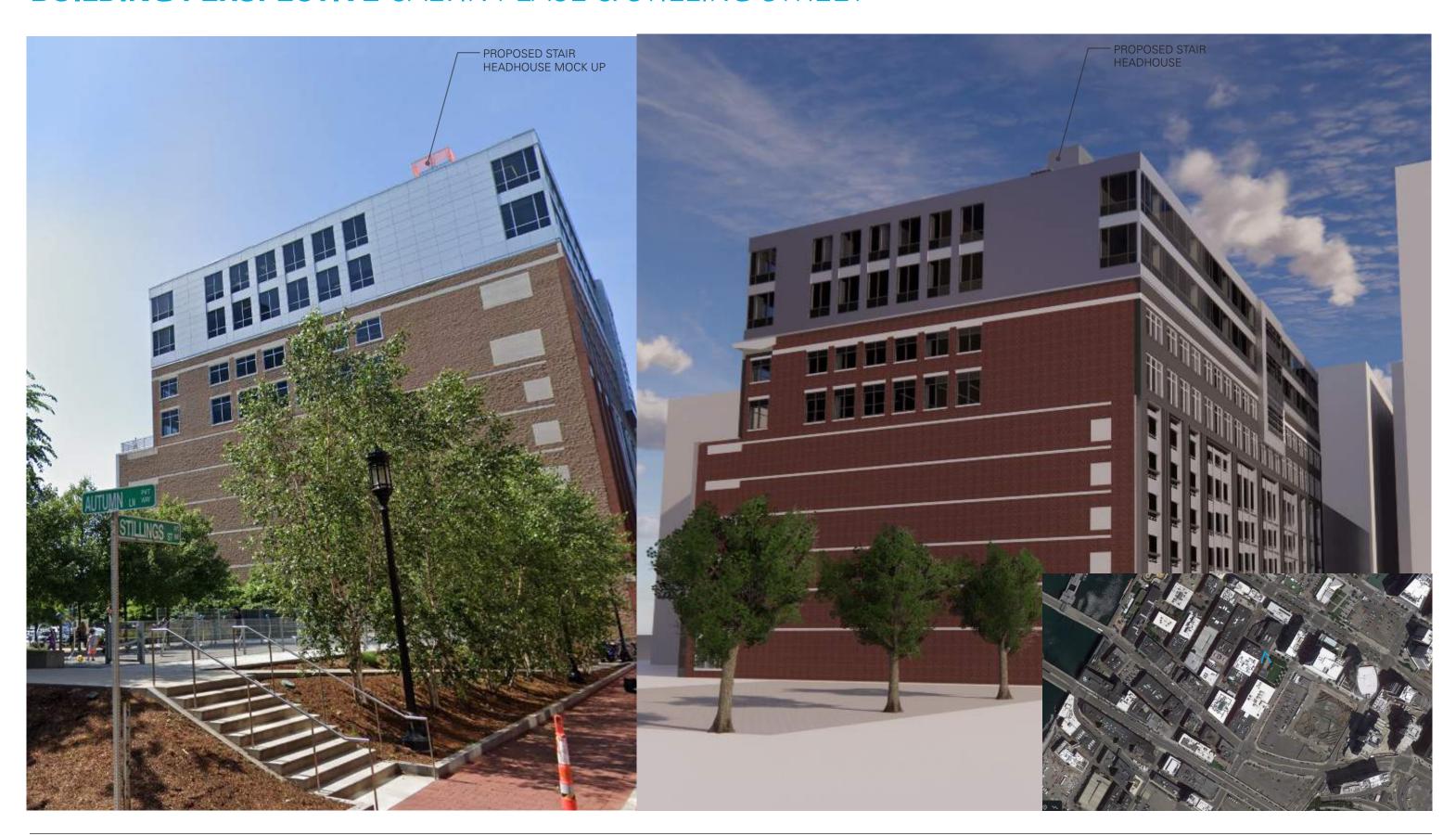
ELEVATION ROOF DECK



ROOF DECK PERSPECTIVE



BUILDING PERSPECTIVE CALVIN PLACE & STILLING STREET



BUILDING PERSPECTIVE ACROSS BOSTON WHARF ROAD



ARCHITECTURE | PLANNING INTERIOR DESIGN | VDC BRANDED ENVIRONMENTS

BOSTON 200 HIGH ST, FLOOR 2 BOSTON, MA 02110 NEW YORK 54 W 21ST ST, SUITE 804 NEW YORK, NY 10010 SGA-ARCH.COM 857.300.2610

ROOF DECK @ 22 BWR

Duck Creek Technologies

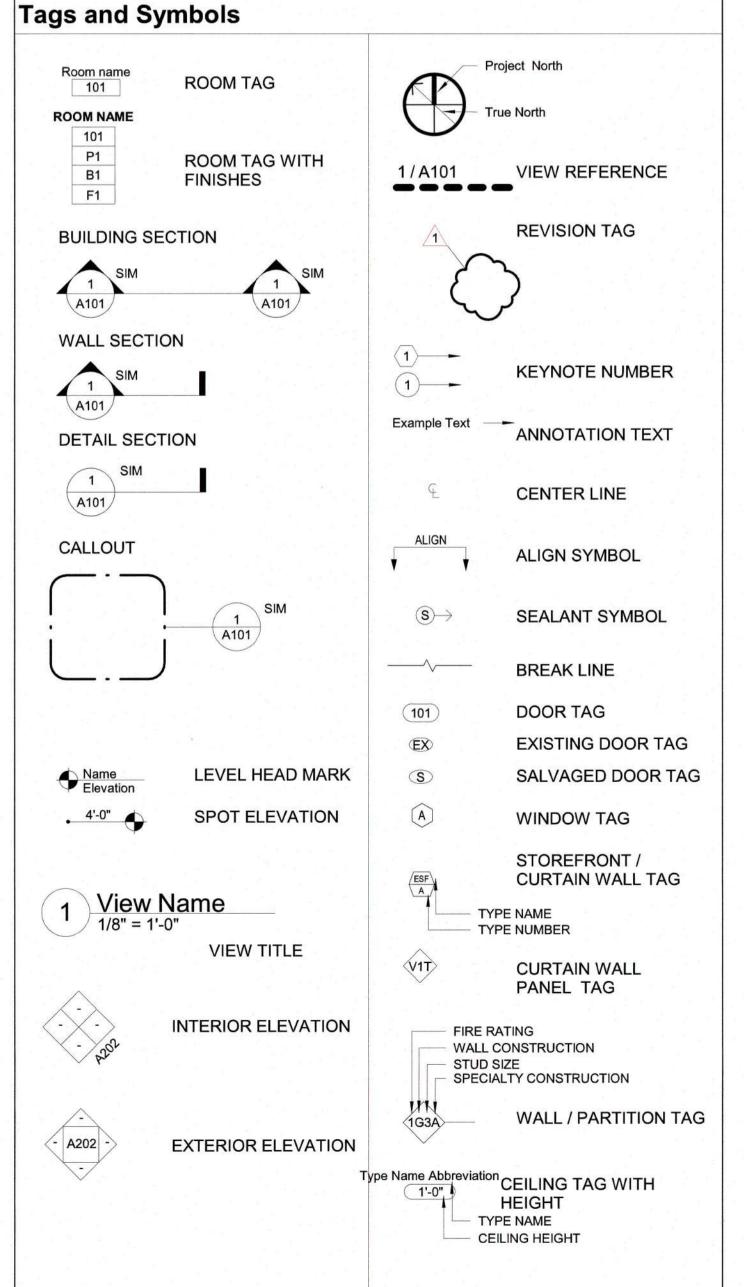
Issue for Planning / Zoning Submission

22 Boston Wharf Road Boston, MA 02210

0	At	H.C.	Handicapped
.C.	Air Conditioning	H.M.	Hollow Metal
F.F.	Above Finished Floor	H.V.A.C.	Heat, Vent., & Air Cond.
.coust.	Acoustic, Acoustical	Hor.	Horizontal
dj.	Adjustable	Ht.	Height
lum.	Aluminum	Incl.	Include (d) (ing)
nod.	Anodized	Insul.	Insulation
pprox.	Approximate	Int.	Interior
rch.	Architect(ural)	Jan. Cl./J.C.	Janitor's Closet
ux.	Auxiliary	Jt.	Joint
d.	Board	Lam	Laminate
ldg.	Building	Lav.	Lavatory
lk.	Block (s)	Lbs.	Pounds
lkg.	Blocking	Ldr.	Leader
ot.	Bottom	M.O.	Masonry Opening
.B.	Chalk Board	Matl.	Material
.D.	Ceiling Diffuser	Max.	Maximum
.H.	Cabinet Heater	Mech.	Mechanical
 J.	Control Joint	Mfg.	Manufacturer
.J.	Center Line	Min.	Minimum
.O.	Clean Out	Mtl.	Metal
.R.	Ceiling Register	N.	North
.W.	Cold Water	N.I.C.	Not In Contract
ab.	Cabinet	N.T.S.	Not To Scale
em.	Cement	No. or #	Number
lg.	Ceiling	No. or #	Nominal
los., CL.	Closet	O.C.	On Center (s)
ir	Clear	O.H.	Overhead
MU	Concrete Masony Unit	O.P.	Overflow Pipe
ol.	Column	Op. Sim.	Opposite Similar
onc.	Concrete	Opp Hnd.	Opposite Hand
onst.	Construction	P.T.	Pressure Treated
ont.	Continuous	PI.	Plate
orr.	Corridor	Plam.	Plastic Laminated
./DN.	Down	Plywd.	Plywood
.F.	Drinking Fountain	Ptd.	Painted
et.	Detail	R.	Radius
ia.	Diameter	R.D.	Roof Drain
ia. iag.	Diagonal	R.O.	Rough Opening
im.	Diagonal	Rad.	Radius
isp.	Dispenser	Ref./REfl.	Reflected
lsp. Р.	Dampproofing	Reinf.	Reinforce (d) (ing)
wg.	Drawing	Reg'd.	Required
wg.	East	Requ.	Room
.O.D.	Edge of Roof Deck	S.	South
.O.S.	Edge of Slab	Sch.	Schedule
.O.S. a.	Each	Sim.	Similar to
a. I.	Elevation (Feet & Inches)	Spec.	Specification
ı. lect.	Elecric, Electrical	Spec. Spr.	Sprinkler
lect. lev.	Elevator	Spr. St./Stl.	Stainless Steel
		St./Sti.	Steel
q. quin	Equal Equipment	Stor.	Storage
quip. xh.	Exhaust	Stor.	Structural, Structure
	Expansion Joint		Suspended
xp. Jt. xt.	Expansion Joint Exterior	Susp. T.G.	
			Tempered Glass
.D	Floor Drain	T.O.C.	Top of Concrete
.H.	Full Height	T.O.S.	Top of Steel
.O.B.	Face of Block / Brick	Tel.	Telephone
.O.C.	Face of Convector	Temp.	Tempered
.O.W.	Face of Wall	Thk.	Thickness
.P.	Fireproof, Fireproofing	Toil.	Toilet
.R.	Fire Rated	Trans.	Transformer
dtn.	Foundation	Тур.	Typical
in.	Finish, Finished	U.	Up
ix.	Fixture	U.L.	Underwriter's Laboratories
l./Flr.	Floor	V.I.F.	Verify in Field
lshg.	Flashing	VCT	Vinyl Composition Tile
tg.	Footing	Vert.	Vertical
i.C.	General Contractor	Vest.	Vestibule
a.	Gauge	W.	West
alv.	Galvanized	W.C.	Water Closet
I.	Glass	W.W.F.	Welded Wire Fabric
r.	Grade	W/, W/O	With, Without
WB/GYP BD		WD	Wood

Wood

GWB./GYP BD. Gypsum Wall Board



Prawing List					
Sheet umber		Sheet Name	Issue for PZ Submission		
Genera	al				
000	Cover Page		*		
100	Code Study Analysis				
Survey	,				
(Plot Plan		•		
Archite	ectural				
110	Level 10 Plan				
111	Roof Plan		•		
200	Building Elevations		•		
210	Roof Deck Flevations				

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PROJECT TEAM:

CLIENT
Duck Creek Technologies

22 Boston Wharf Road Boston, MA 02210 857-327-8032

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210 617-250-4100

MPE/FP ENGINEERS
WB ENGINEERS

155 Seaport Boulevard Boston, MA 02210 617-443-4950

ACOUSTICAL ENGINEERING
ACENTECH

33 Moulton Street Cambridge, MA 02138 617-499-8063

SEAL / SIGNATURE



PROJECT:
ROOF DECK @ 22 BWR

22 Boston Wharf Road Boston, MA 02210

Duck Creek Technologies

REVISIONS:
No. Date Description

SUBMISSIONS:

Date Issued For:
12.20.18 Schematic Design Package
12.12.19 Issue for PZ Submission

SCALE 1/8" = 1'-0"
DATE ISSUED 12/12/2019
PROJECT NO 004715.00

SHEET TITLE:

DRAWN BY **MEM**

Cover Page

G-000

Project Location: 22 Boston Wharf Road 10th Floor and Roof Boston, MA 02210

22 Boston Wharf Road is an existing 10-story office building in Boston, Massachusetts.

22 Boston Wharf Road is an existing 9 story office building and garage. Proposed alterations are improvements to the roof level in order to install a roof deck, planting, guard rails, ramp, and egress stair extension. Proposed alterations do not involve changes to the existing building structural systems, building envelope, or toilet rooms. Minor alterations will be made to the existing roof system as required for the proposed work.

Applicable Codes:

Building
780 CMR - Massachusetts State Building Code 9th Edition, which is an amended version of the 2015 International Building Code (IBC).

780 CMR 34.00 is deleted and replaced by the Massachusetts Existing Building Code (MEBC), which is an amended version of the 2015 International Existing Building Code (IEBC).

527 CMR 1.00 - Massachusetts Comprehensive Fire Safety Code, which is an amended version of the 2015 Edition of NFPA 1, Fire Code.

2015 International Fire Code (IFC) is applicable for fire code references in 780 CMR not addressed by

Plumbing 248 CMR 10.00 - Uniform State Plumbing Code.

527 CMR 12.00 - Massachusetts Electrical Code, which is an amended version of the 2017 Edition of NFPA 70, National Electrical Code

2015 International Energy Conservation Code (IECC) as amended by 780 CMR 13.00.

2015 International Mechanical Code (IMC) as amended by 780 CMR 28.00.

Accessibility Regulations
521 CMR - Architectural Access Board (AAB) Rules and Regulations

National Fire Protection Association (NFPA) Standards, as referenced by the above codes

IEBC 301.1.2 Compliance Method

2010 ADA Standards for Accessible Design

Alterations and repairs are designed to comply with the Work Area Compliance Method.

IEBC Chapter 5 Classification of Work

Alteration Level 2. The total work area is less than 50% of aggregate building area.

Level 2 alterations shall comply with the provisions of Chapter 7 for Level 1 alterations as well as the provisions of Chapter 8.

IEBC Chapter 8 - Alteration Level 2

Level 2 Alterations shall comply with the requirements of this chapter.

1 Life Safety Roof Plan

In addition to the requirements of this chapter, all work shall also comply with the requirements of Chapter

Use and Occupancy:

IBC 302 Use and Occupancy

Business Group A-3, in accordance with the Section 304 of the IBC.

Building Construction:

IEBC 803 Building Elements and Materials

All new construction interior finish of walls, ceilings and floors in exits and corridors in any work area shall comply with the requirements of Chapter 8 of the IBC.

IBC 6.0 Types of Construction

Table 601 Nonbearing wall Exterior 0-hour (Type 1B High Rise Modified construction (Equal to type IIA, based on Table 602 for buildings with fire separation distance greated than 30')

IBC Table 1020.1 Corridor fire-resistance rating

(B Occupancy, automatic sprinkler system): 0-hour IEBC 803.6 Fire-resistance Ratings

Existing fire-resistance-rated building elements and materials to remain.

IEBC 804.2 Automatic Sprinkler Systems

Existing system shall remain. Connections to existing system will be provided to maintain required coverage at reconfigured rooms and spaces. Refer to fire protection engineering drawings.

IEBC 804.3 Standpipes

Existing shall remain.

IEBC 804.4 Fire Alarm and Detection

Existing system shall remain. New devices will be installed at reconfigured spaces to comply with current code requirements. Refer to electrical engineering drawings.

IBC 703.7 Marking and identification

All fire walls, barriers, and smoke partitions within scope of work shall be provided with a permanent sign or stenciling as indicated in IBC 703.7.

Means of Egress:

IEBC 805 Means of Egress

IBC 1006.3.1 Number of Exits and Exit Access Doorways based on occupant load. (A-3 occupancy, automatic sprinkler system,2 exits provided.

Exit Access Travel Distance - Table 1017.2

(A-3 occupancy, automatic sprinkler system, maximum length shall not exceed): 250 feet. See egress plan for actual travel distances.

Dead-end corridors & IBC 1020.4 Dead end corridors - Exception 2 (A-3 occupancy, automatic sprinkler system, maximum length shall not exceed): 50 ft.

IEBC 805.8 Exit Signs
All exits and exit access routes will be provided with exit signs in accordance with code requirements of the IBC 1011 Exit Signs.

IBC 1020.2 Corridor width and capacity

Width as required to serve occupant load calculated in accordance with 780 CMR 1005 but not less than 44 inches minimum for A occupancy. Egress width provded complies, see egress plan.

ROOF DECK

EGRESS PATH 1 - 149'-6"

ACCESSORY MECHANICAL

774 SF

300 SF/OCC 3 PERSONS

EXISTING ENCLOSED EXIT STAIRWAY

s Width Canacity Calculation (IRC: 1005 3 1 & 1005 3 2) (IRC: 1020 1)

gress v	viotn Capac	city Calcu	lation (IBC	2: 1005.3.1 a	& 1005.3.2	2) (IBC: 10	20.1)		
Floor	Exit	Door Width	Door Factor	Door Capacity	Stair Width	Stair Factor	Stair Capacity	Total Capacity	Status
Roof Deck	1 single door	34"	0.2	170	44"	0.3	146	146	1. 4.
	1 single door	34"	0.2	170	44"	0.3	146	146	
						Floor Ca		exits =292 ctual =190	Compliar

IBC 1006 Number of Exits and Exit Access Doorways

hold for now

Two exits or exit access doorways from any space shall be provided where the design occupant load or the common path of egress travel distance exceeds the values listed in Table 1006.2.1.

A occupancy, automatic sprinkler system: 49 maximum occupants, 75' maximum common path of travel. Two exits are provided from this roof deck, see egress plan.

IBC 1007.1.1 Exception 2 Exit or Exit Access Separation (Automatic Sprinkler System) where two exits are required the min, separation distance shall not be less than 1/3 of the length of the max. overal diagonal dimension of the area served. See egress plan for actual separation distance provided.

Minimum Number of Exits Calculation (IBC: Table 1006.3.1)

Floor	Occupant Load	Required Number of Exits	Number of Exits Provided	Status
Roof	190	2	2	Compliant

All of the building's exit stairs discharge via fire-rated resistive construction exit passageways at the first floor/grade level of exit discharge.

IEBC 807 Structural

The proposed project includes include new structural elements for egress stair extention, but does not reduce the capacity of existing structural elements carrying gravity loads, and does not alter the demand capacity ratio on existing structural elements resisting lateral loads.

IEBC 808 Electrical

Proposed new components, equipment and systems of Electrical work shall comply with Massachusetts Electrical Code. Refer to Engineer's Drawings.

IEBC 809 Mechanical

Proposed new components of mechanical appliances, equipment and systems shall be constructed, installed and maintained in accordance with the IMC. Refer to Engineer's Drawings.

IEBC 810 Plumbing

Proposed new components, equipment and systems of Plumbing work shall comply with the Uniform State Plumbing Code. Refer to Engineer's Drawings.

DIAGONAL DISTANCE = 125' - 9"

EGRESS PATH 2 - 86'-6"

ASSEMBLY A-3 2,800 SF

15 SF/OCC

IPC 403.3.3 Plumbing Fixtures

This roof deck is an amenity space only for the 10th floor tenant. While occupant load is acknowledged for egress purposes, there is no actual increase in occupancy since only the tenants from the tenth floor will use the roof deck. Toilet rooms of adequate capacity for 10th floor tenant have been provided on that level for their use. Per IPC 403.3.3, toilet facilities may be up to 1 story above or below the space required to be provided with toilet facilities.

IEBC 811 Energy Conservation

Level 1 alterations to existing buildings are permitted without requiring the entire building to comply with the Energy Conservation Code. Proposed alterations shall comply to the Energy Conservation

Code as they relate to new construction only.

IEBC 10.0 Change of Occupancy Not applicable.

IEBC 11.0 Additions

Not applicable.

IEBC 12.0 Historic Buildings Not applicable.

IEBC 13.0 Relocated or Moved Buildings

Not applicable.

PROJECT TEAM: **Duck Creek Technologies** 22 Boston Wharf Road Boston, MA 02210

857-327-8032

200 HIGH ST, BOSTON, MA, 02110

857.300.2610 | SGA-ARCH.COM

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210

617-250-4100 MPE/FP ENGINEERS

WB ENGINEERS 155 Seaport Boulevard

Boston, MA 02210 617-443-4950

Cambridge, MA 02138

SEAL / SIGNATURE

Boston, MA 02210

REVISIONS:
No. Date Description

SUBMISSIONS:

Duck Creek Technologies

617-499-8063

ACOUSTICAL ENGINEERING
ACENTECH 33 Moulton Street

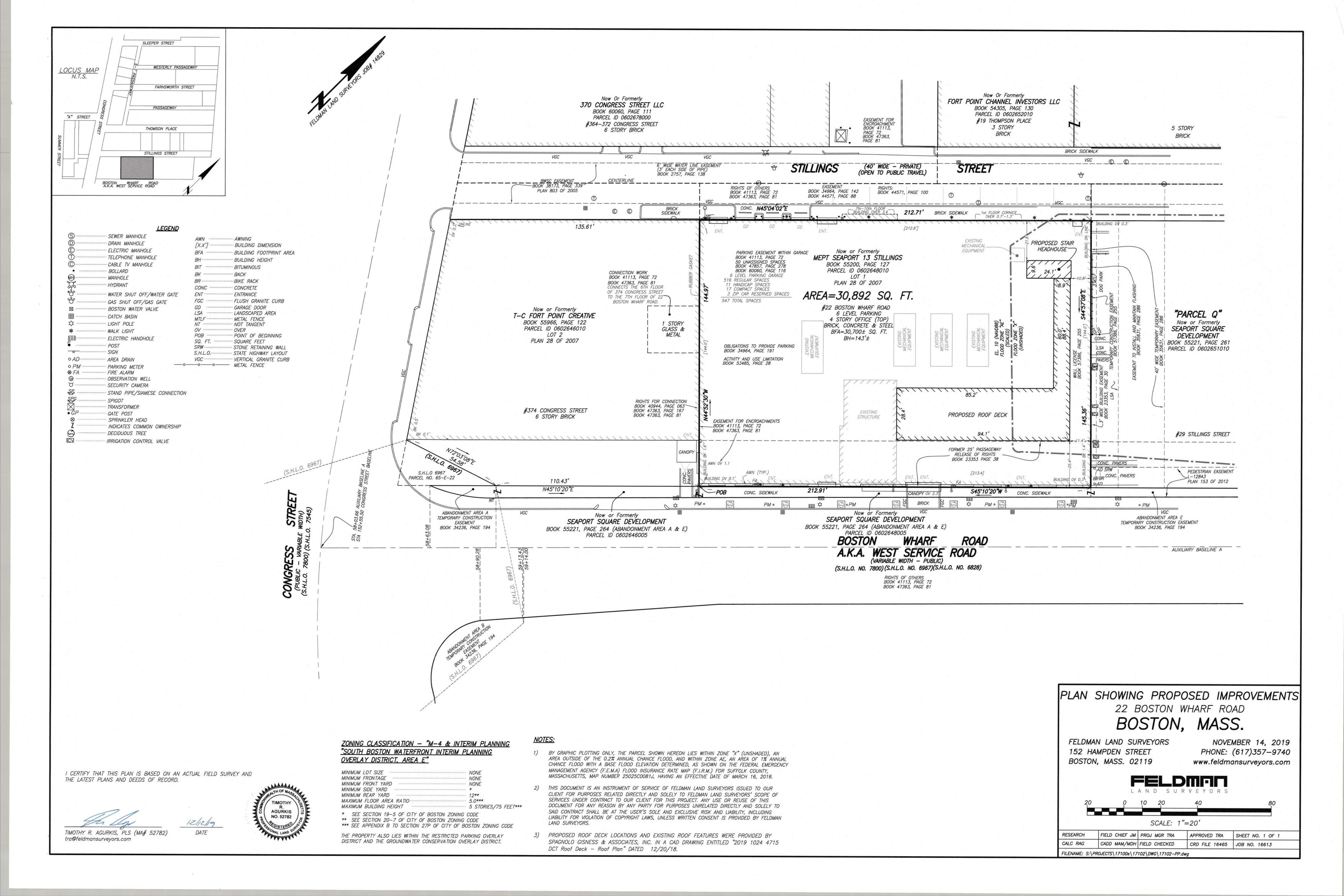


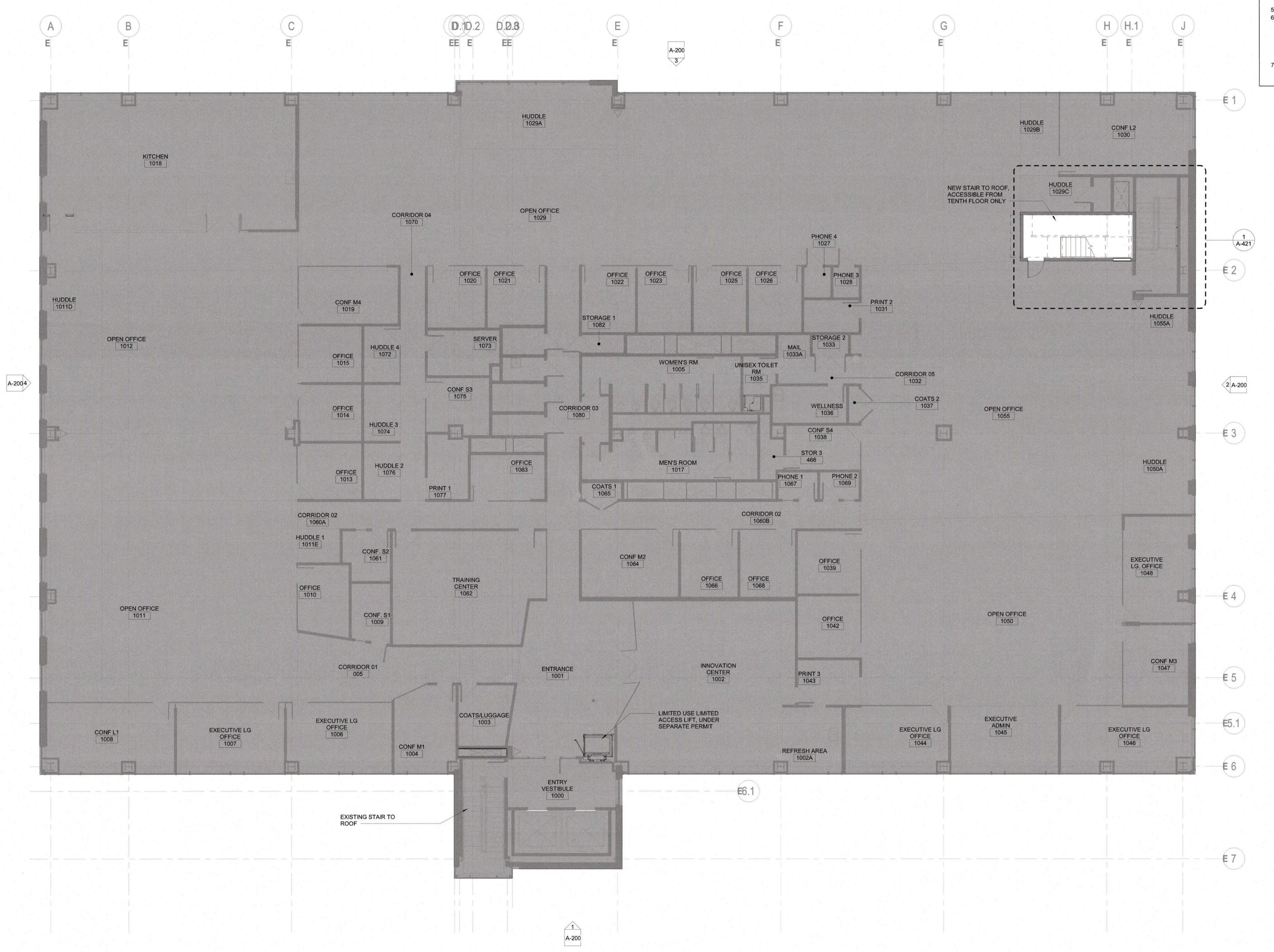
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DATE ISSUED 12/12/2019
PROJECT NO 004715.00 DRAWN BY Author
CHECKED BY Checker

Date Issued For:
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12.12.19 Issue for PZ Submission

Code Study **Analysis**

G-100





Plan Notes

1 REFER TO GENERAL CONDITIONS, SPECIFICATIONS AND SCHEDULES FOR ALL

2 DRAWINGS LISTED UNDER 'DRAWING LIST' MUST BE READ IN CONJUNCTION WITH

THIS DRAWING FOR COMPLETE INFORMATION. 3 CONFIRM WITH ARCHITECT THAT THESE DRAWINGS ARE THE MOST CURRENT ISSUE BEFORE BEGINNING LAYOUT AND CONSTRUCTION.

4 CONTRACTOR MUST GIVE ARCHITECT (4) WORKING DAYS NOTICE TO REVIEW PARTITIONS, FLOOR OUTLETS AND FURNITURE PANEL SYSTEM LAYOUT AT 'CHALK LINE' STAGE. TRACK AND STUD WORK SHALL NOT BEGIN BEFORE ARCHITECT HAS REVIEWED ENTIRE LAYOUT

5 FOR DOOR AND HARDWARE INFORMATION REFER TO DOOR AND HARDWARE SHEET 6 INTERIOR DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. THE DETAILS APPLY TO ALL LOCATIONS THAT ARE NOT KEYED - IN AN AREA OF THE SAME CONSTRUCTION AND SCOPE OF WORK. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE TO COORDINATE THE LOCATION OF ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. IF DISCREPANCIES EXIST OR QUALIFICATION IS REQUIRED THE CONTRACTOR IS TO NOTIFY THE ARCHITECT TO OBTAIN CLARIFICATION.

7 ALL VERTICAL AND HORIZONTAL DUCTS, PIPE, CONDUIT, ETC. (WHETHER SHOWN OR NOT) IN FINISHED ROOMS SHALL BE FURRED IN AND FINISHED TO MATCH ADJACENT FINISHED SURFACES AND ANY REQUIRED WALL OR CEILING RATINGS.

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PROJECT TEAM:

Duck Creek Technologies

22 Boston Wharf Road Boston, MA 02210 857-327-8032

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210

MPE/FP ENGINEERS

617-250-4100

WB ENGINEERS

155 Seaport Boulevard Boston, MA 02210 617-443-4950

ACOUSTICAL ENGINEERING ACENTECH

33 Moulton Street Cambridge, MA 02138 617-499-8063

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ROOF DECK @ 22 BWR

22 Boston Wharf Road Boston, MA 02210

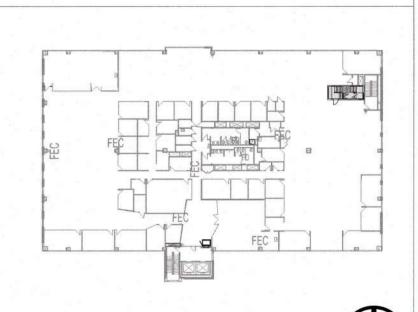
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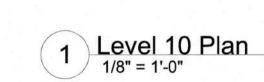
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No. Date Description

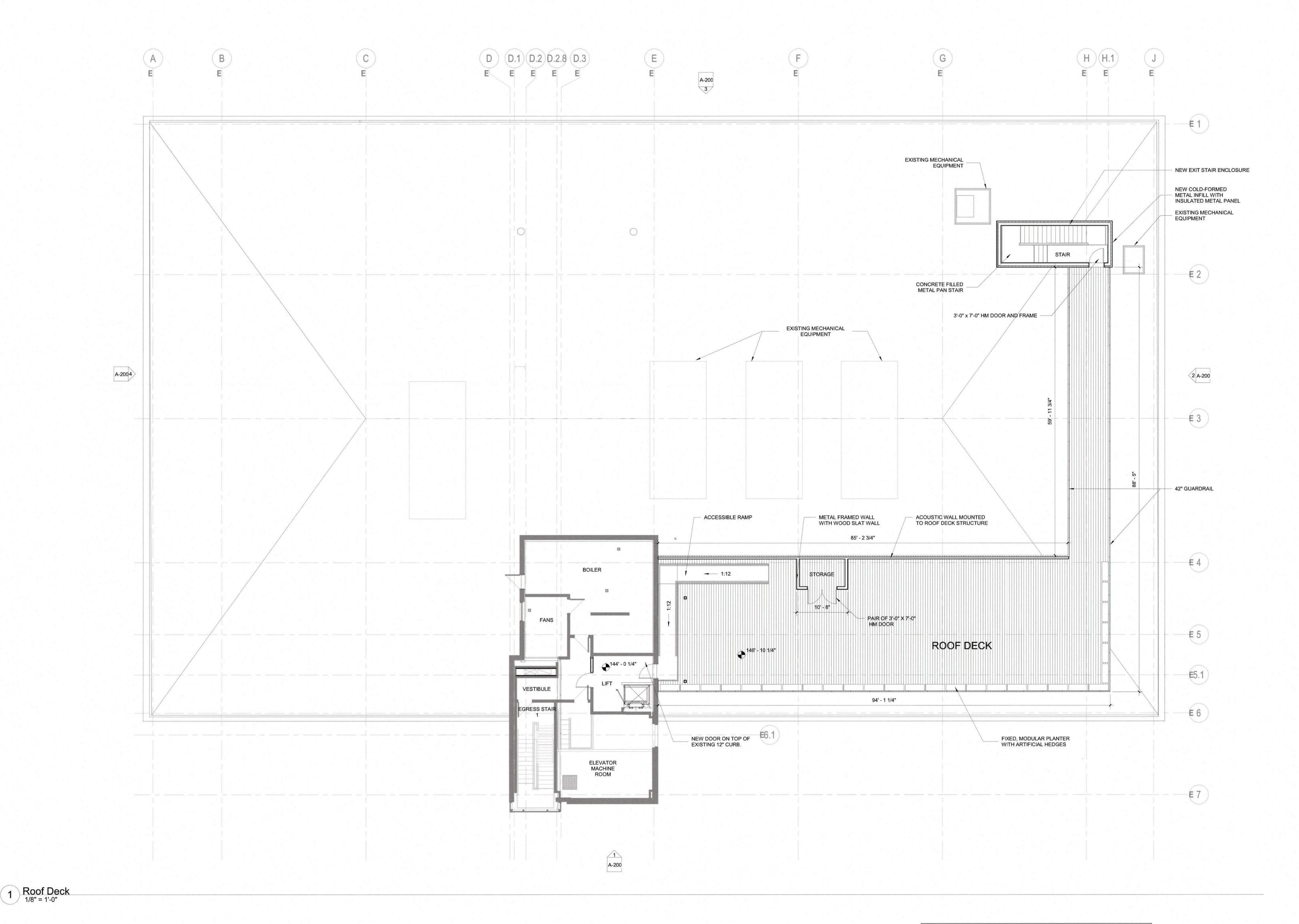
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SHEET TITLE: Level 10 Plan







Materials Legend

COMPOSITE WOOD PLANK DECKING

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PROJECT TEAM:

CLIENT
Duck Creek Technologies

22 Boston Wharf Road Boston, MA 02210 857-327-8032

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210 617-250-4100

MPE/FP ENGINEERS
WB ENGINEERS

155 Seaport Boulevard Boston, MA 02210 617-443-4950

ACOUSTICAL ENGINEERING ACENTECH

33 Moulton Street Cambridge, MA 02138 617-499-8063

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SCALE 1/8" = 1'-0"

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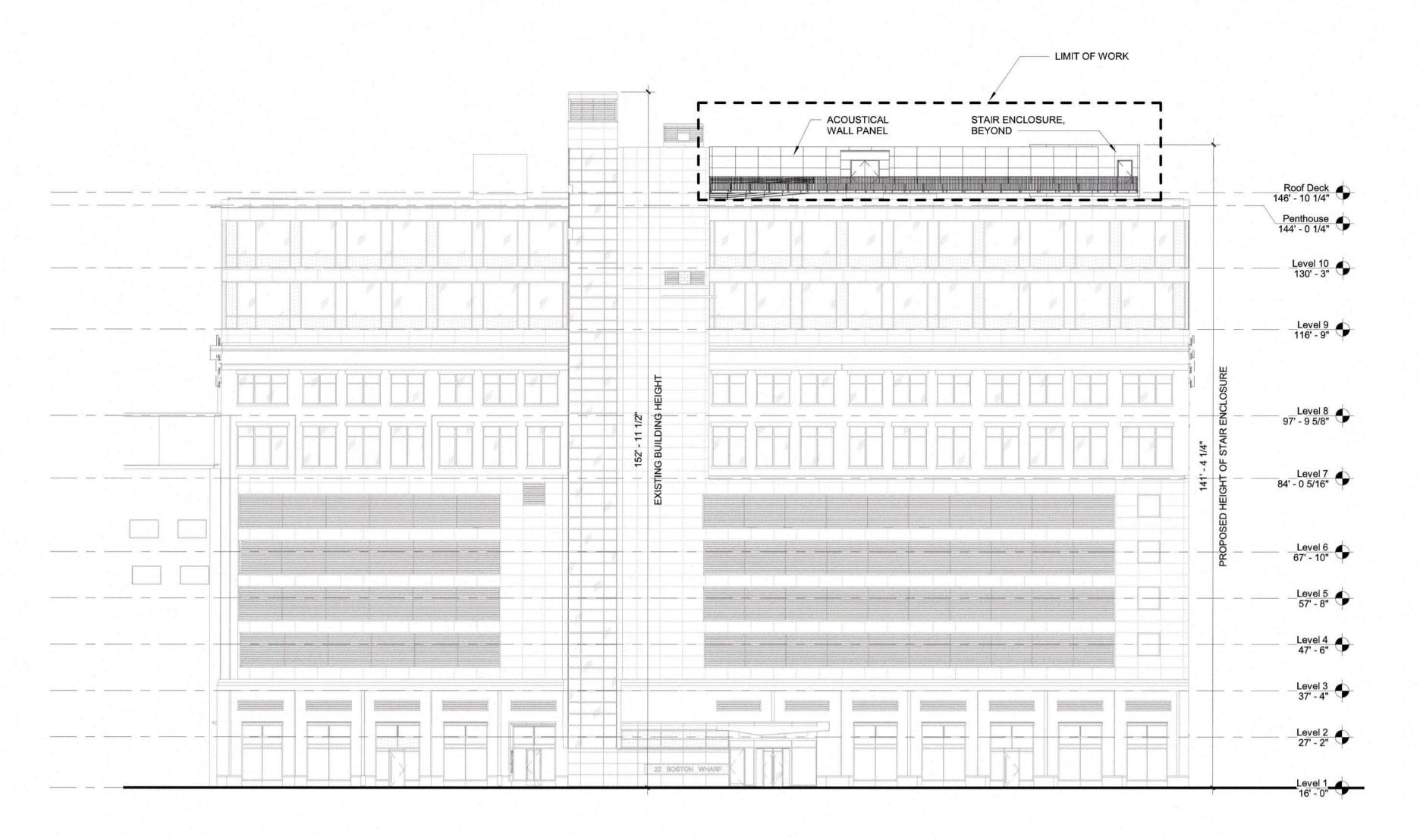
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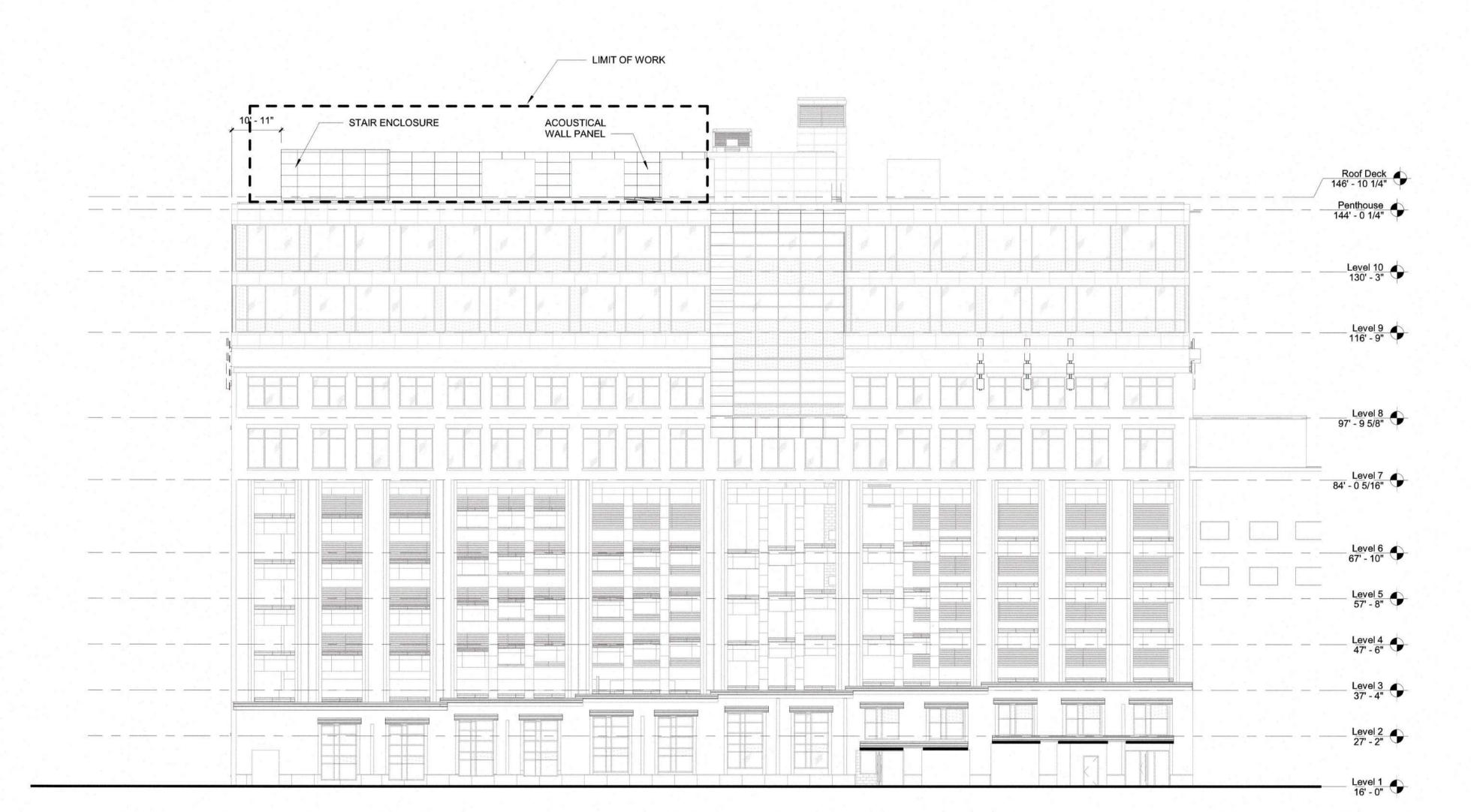
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Roof Plan

SHEET TITLE:



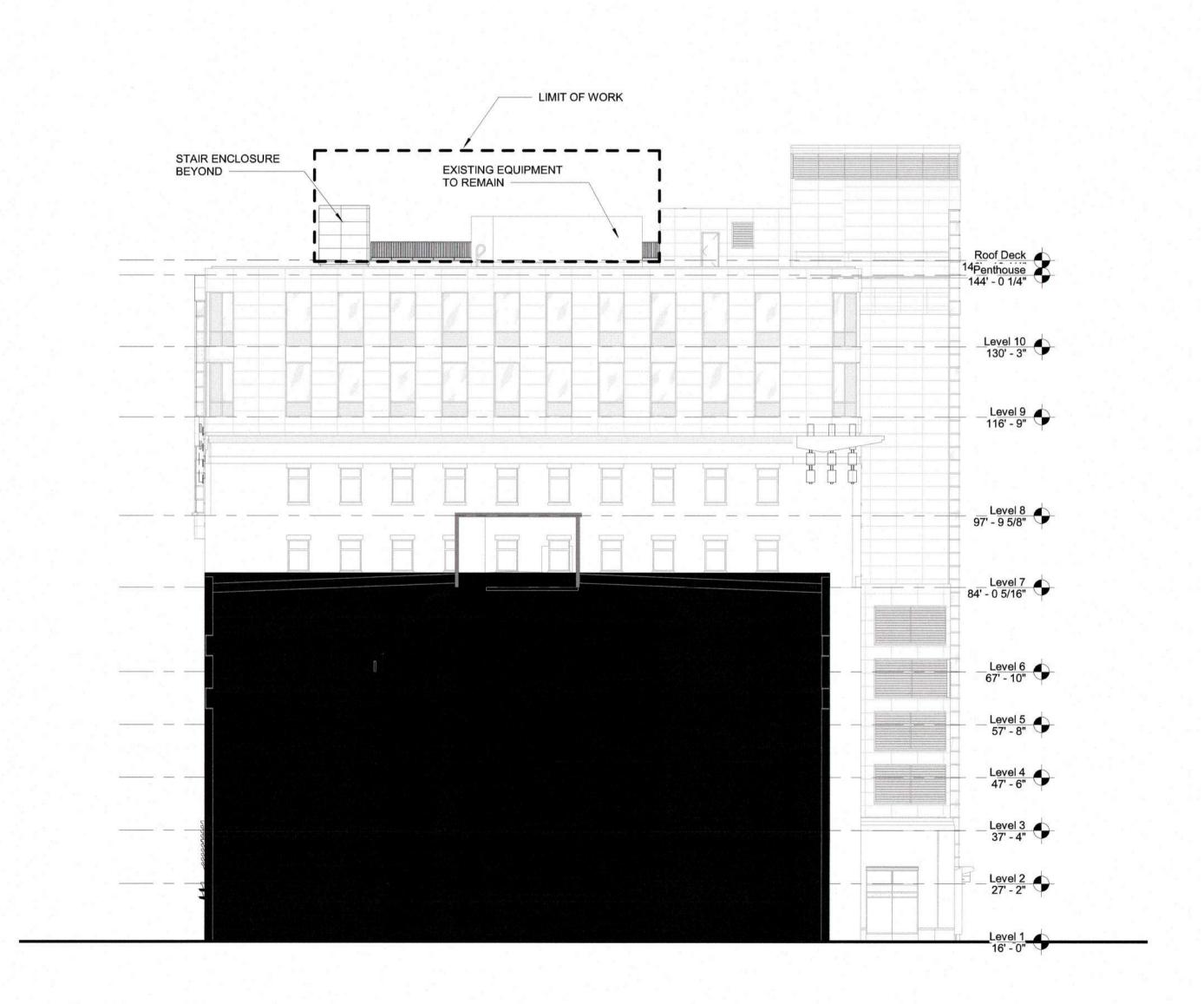
Exterior Elevation
1/16" = 1'-0"



3 Exterior Elevation
1/16" = 1'-0"



2 Exterior Elevation
1/16" = 1'-0"



4 Exterior Elevation
1/16" = 1'-0"



PROJECT TEAM:

CLIENT
Duck Creek Technologies

22 Boston Wharf Road Boston, MA 02210 857-327-8032

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210

MPE/FP ENGINEERS WB ENGINEERS

617-250-4100

155 Seaport Boulevard Boston, MA 02210 617-443-4950

ACOUSTICAL ENGINEERING ACENTECH

33 Moulton Street Cambridge, MA 02138 617-499-8063

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12/12/2019

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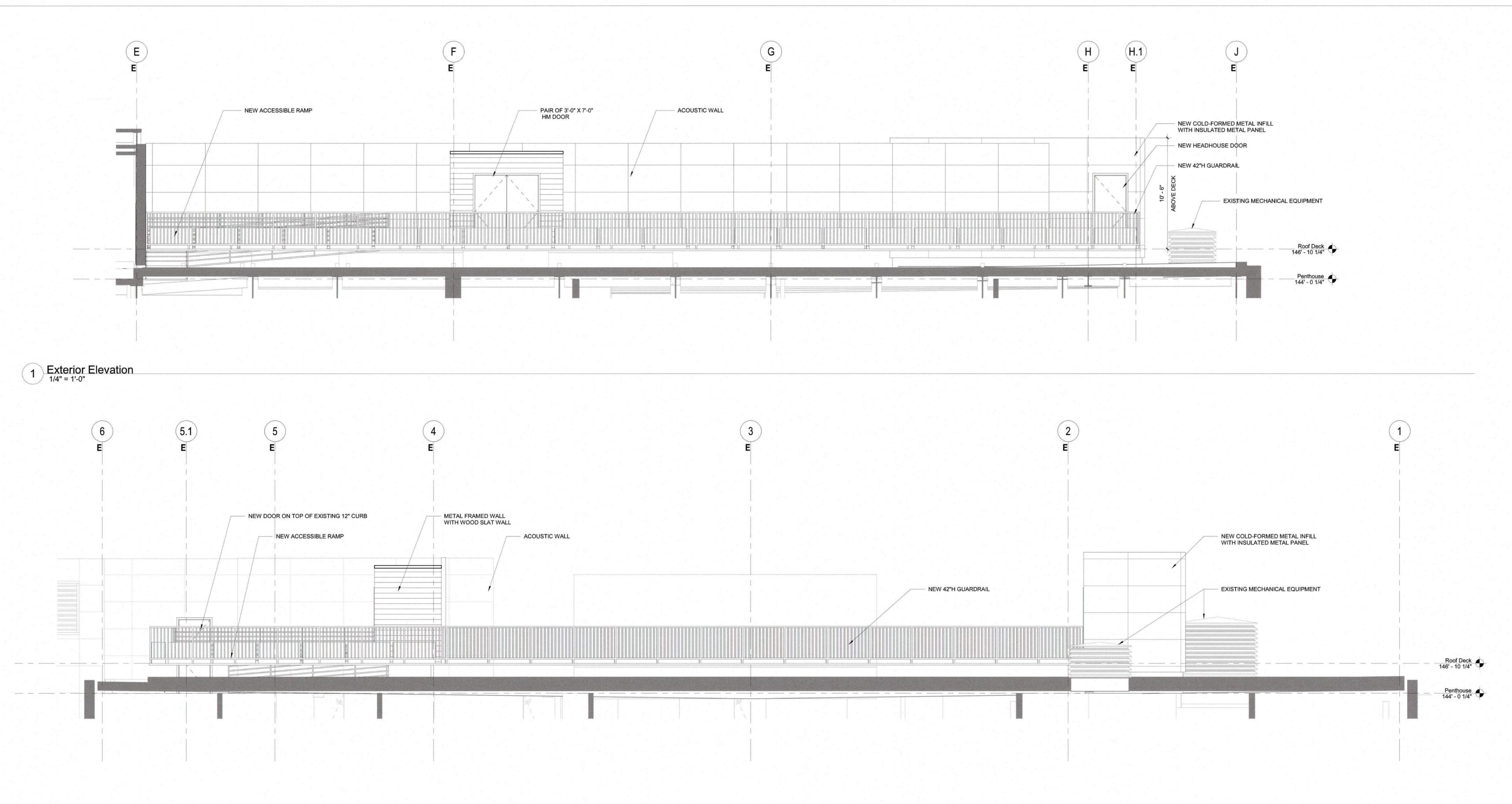
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SHEET TITLE: **Building Elevations**

A-200



2 Exterior Elevation
1/4" = 1'-0"

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PROJECT TEAM:

CLIENT
Duck Creek Technologies

22 Boston Wharf Road Boston, MA 02210 857-327-8032

STRUCTURAL ENGINEER THORNTON-TOMASETTI

27 Wormwood Street, Suite 200 Boston, MA 02210 617-250-4100

MPE/FP ENGINEERS
WB ENGINEERS

155 Seaport Boulevard Boston, MA 02210 617-443-4950

ACOUSTICAL ENGINEERING
ACENTECH

33 Moulton Street Cambridge, MA 02138 617-499-8063

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SCALE 1/4" = 1'-0"

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PROJECT NO 004715.00

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CHECKED BY JLR

Roof Deck Elevations

A-210



Google Maps Autumn Ln



Image capture: Jun 2019 © 2021 Google

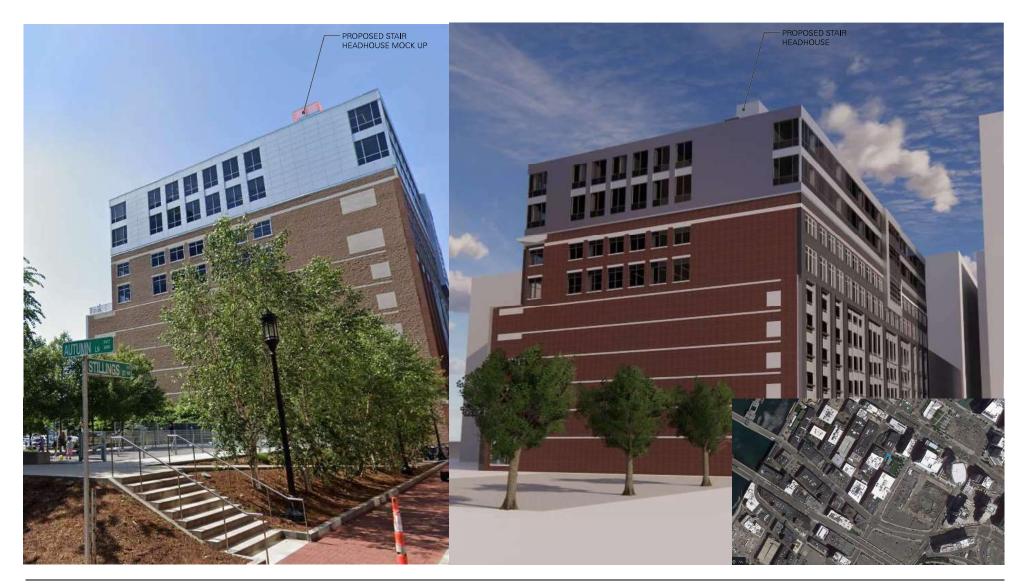
Google Maps **Boston Wharf Rd**



Image capture: Jun 2019 © 2021 Google



BUILDING PERSPECTIVE CALVIN PLACE & STILLING STREET



BUILDING PERSPECTIVE ACROSS BOSTON WHARF ROAD



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