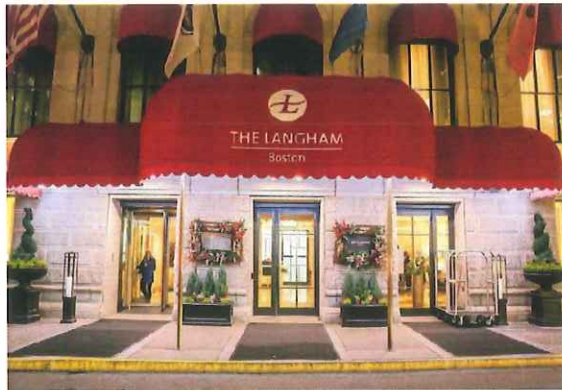


DATE 07/02/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 1 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-01	TITLE SITE VIEW		



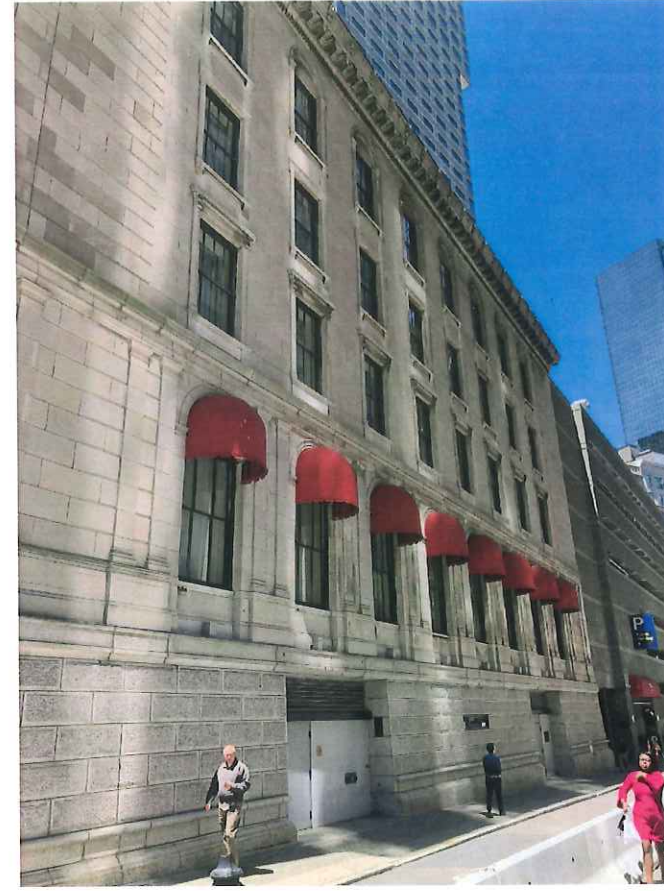
EXISTING CANOPY - NIGHT VIEW



EXISTING CANOPY - DAY VIEW



FRANKLIN STREET FACADE



OLIVER STREET FACADE



PEARL STREET FACADE



EXISTING CANOPY - UNDERSIDE



EXISTING CANOPY - SIDE VIEW



VIEW FROM FRANKLIN STREET AND PEARL STREET

DATE
06/20/18

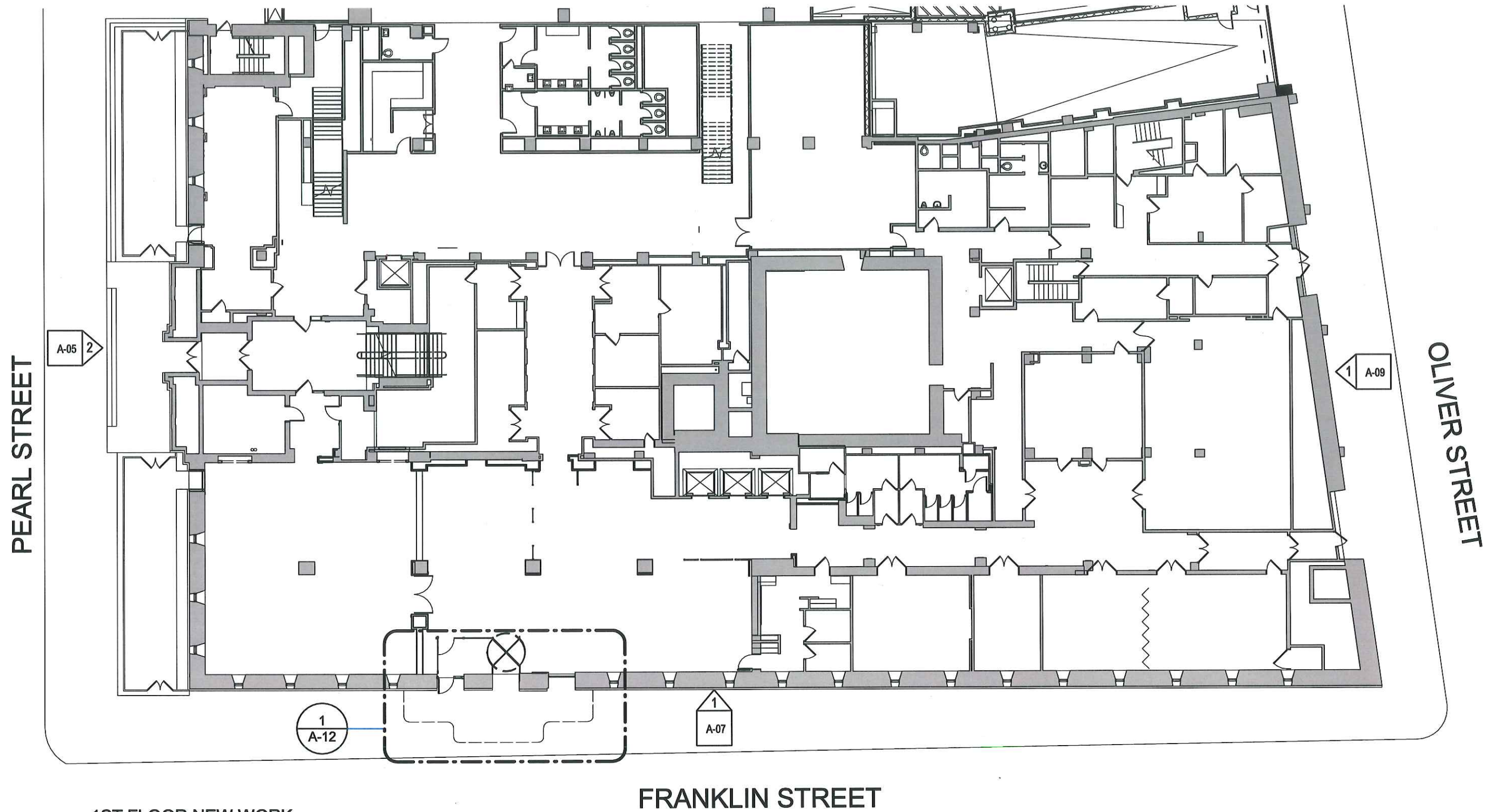
CLIENT
THE LANGHAM BOSTON

NO.
A-02

TITLE
EXISTING EXTERIOR FACADE PHOTOS

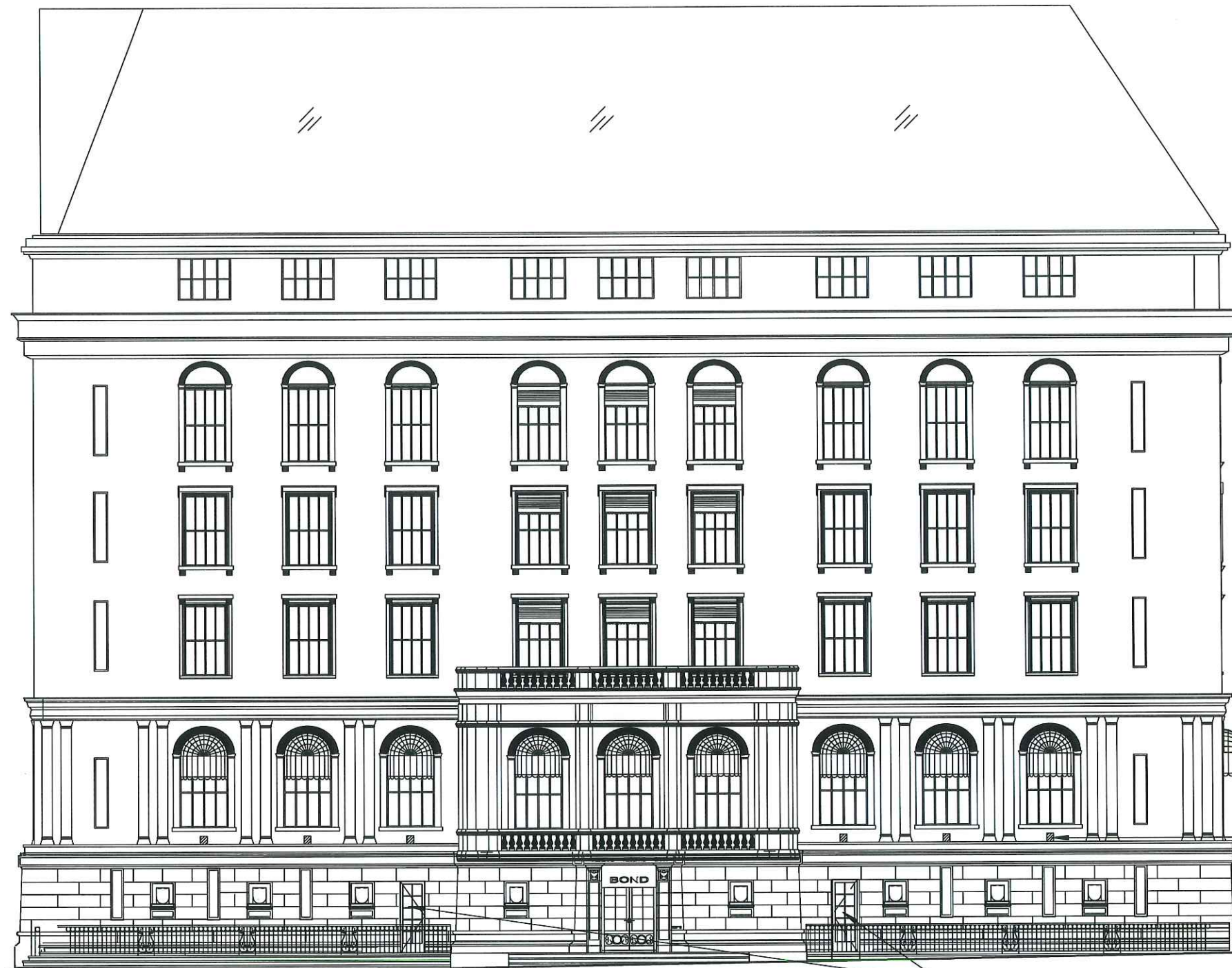
PROJECT
THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS

One Winthrop Square 617 426 1680
Boston, MA 02110-1209 617 426 2187



① 1ST FLOOR NEW WORK
 3/64" = 1'-0"

DATE 07.02.18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	DYER BROWN DYER BROWN ARCHITECTS DYERBROWN.COM	One Winthrop Square Boston, MA 02110-1209	T 617 426 1680 F 617 426 2187
NO. A-03	TITLE KEY PLANS				

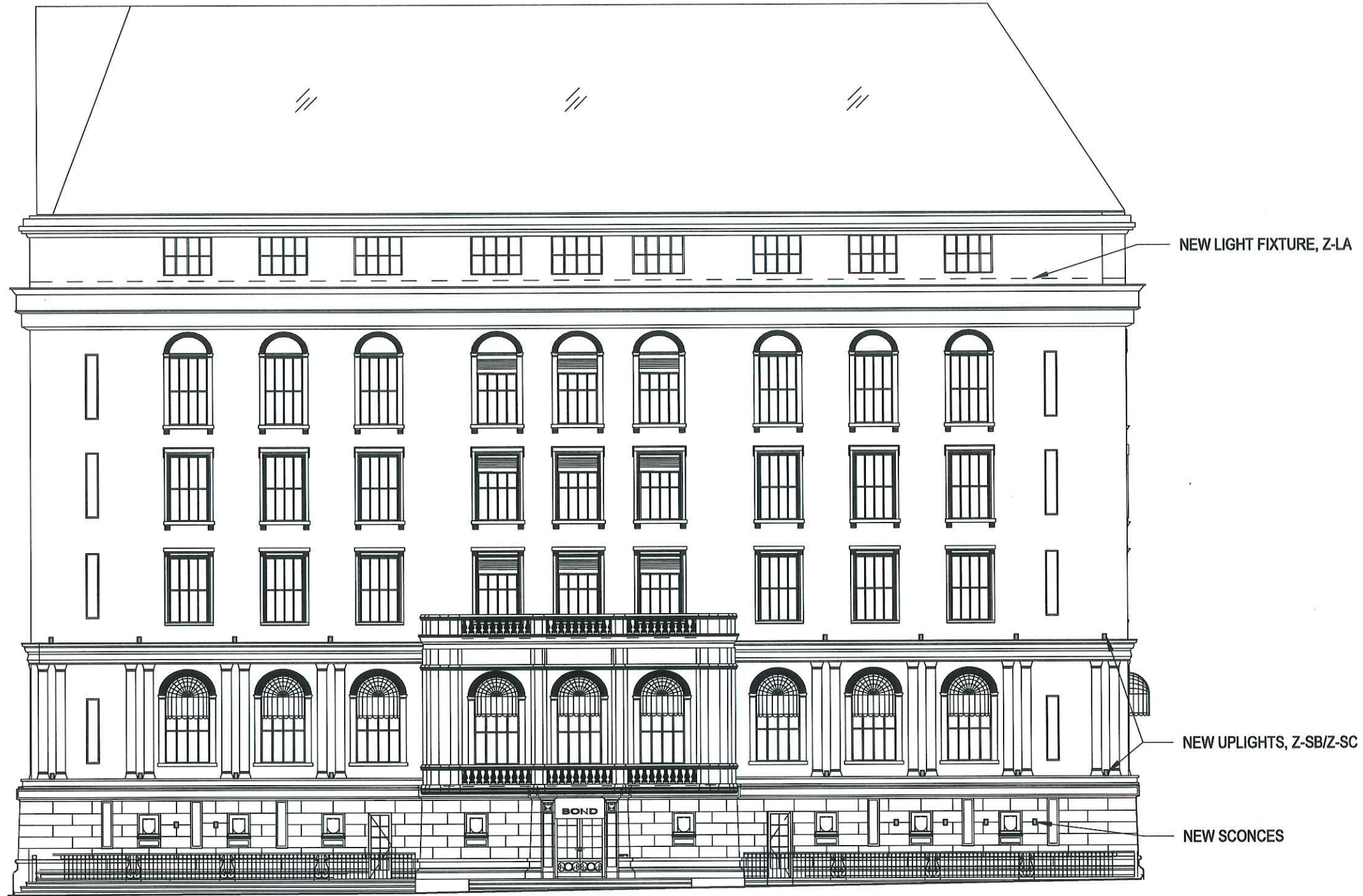


EXISTING UPLIGHTING
TO BE REMOVED

DOOR PREVIOUSLY
APPROVED BY BLC

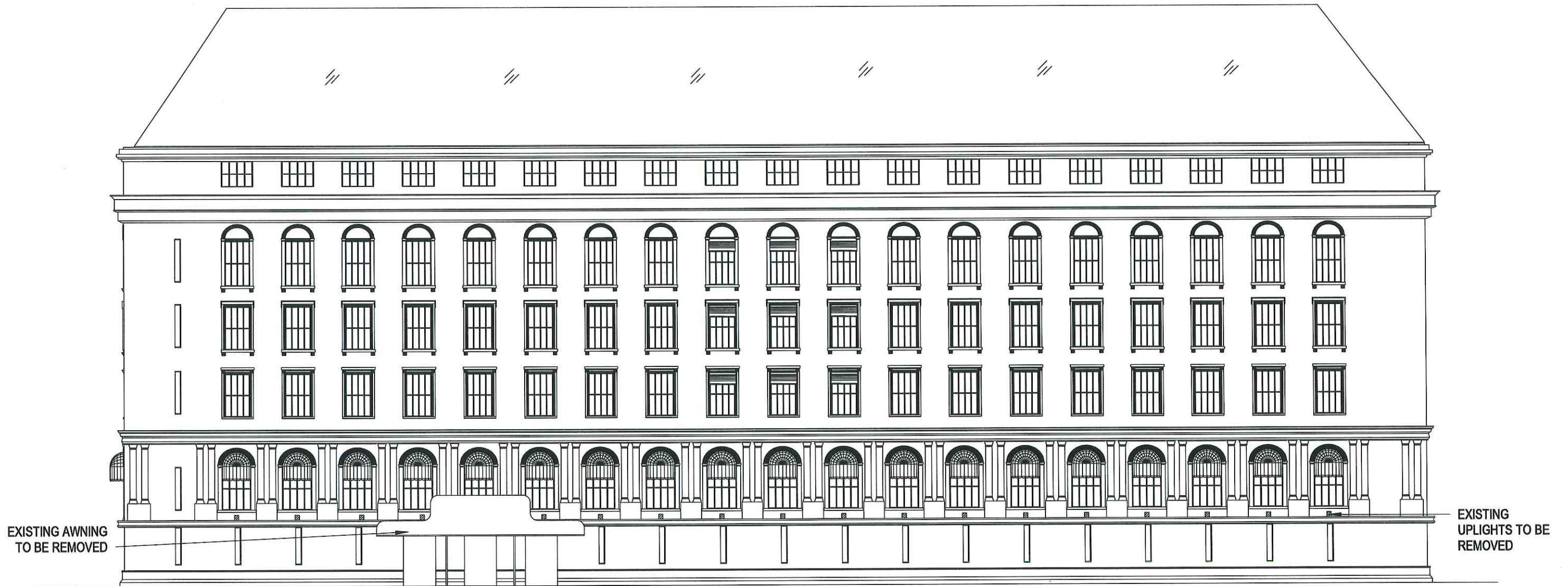
① PEAR STREET EXISTING EXTERIOR ELEVATION
1/16" = 1'-0"

DATE 06/27/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square T 617 426 1680 Boston, MA 02110-1209 F 617 426 2187
NO. A-04	TITLE PEARL STREET FACADE ELEVATIONS		



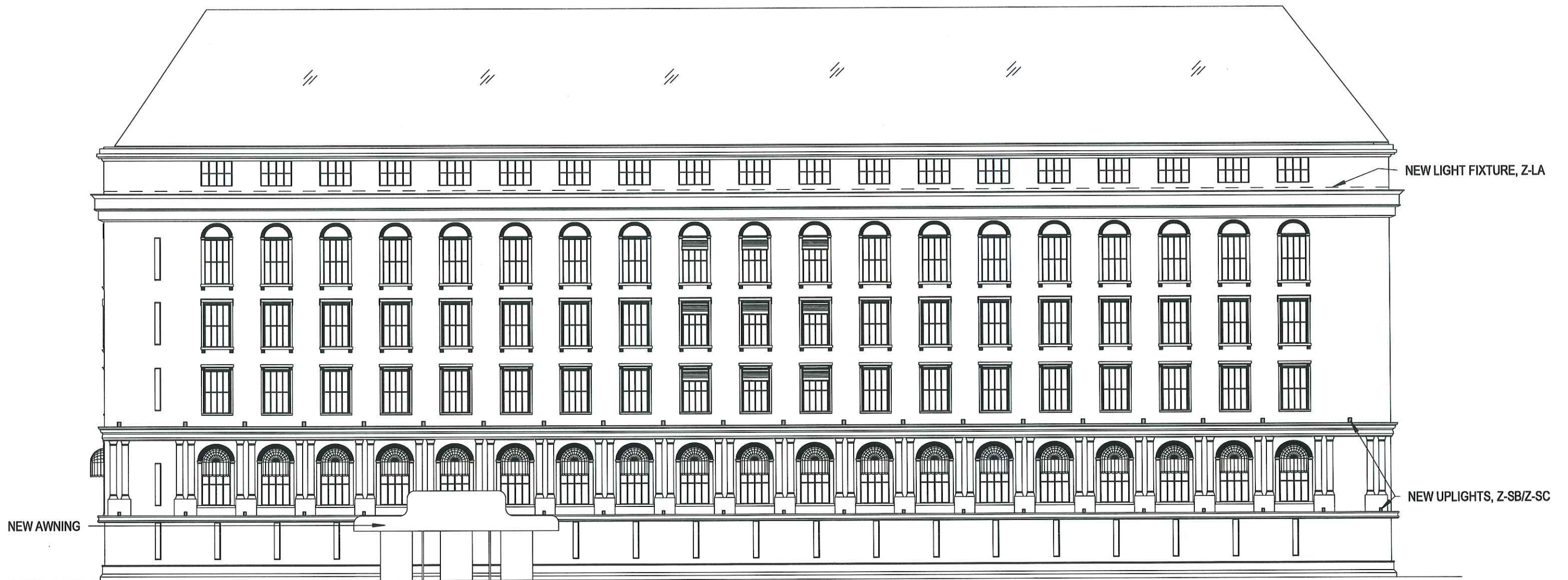
② PEAR STREET PROPOSED EXTERIOR ELEVATION
1/16" = 1'-0"

DATE 06/20/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square T 617 426 1680 Boston, MA 02110-1209 F 617 426 2187
NO. A-05	TITLE PEARL STREET FACADE ELEVATIONS		



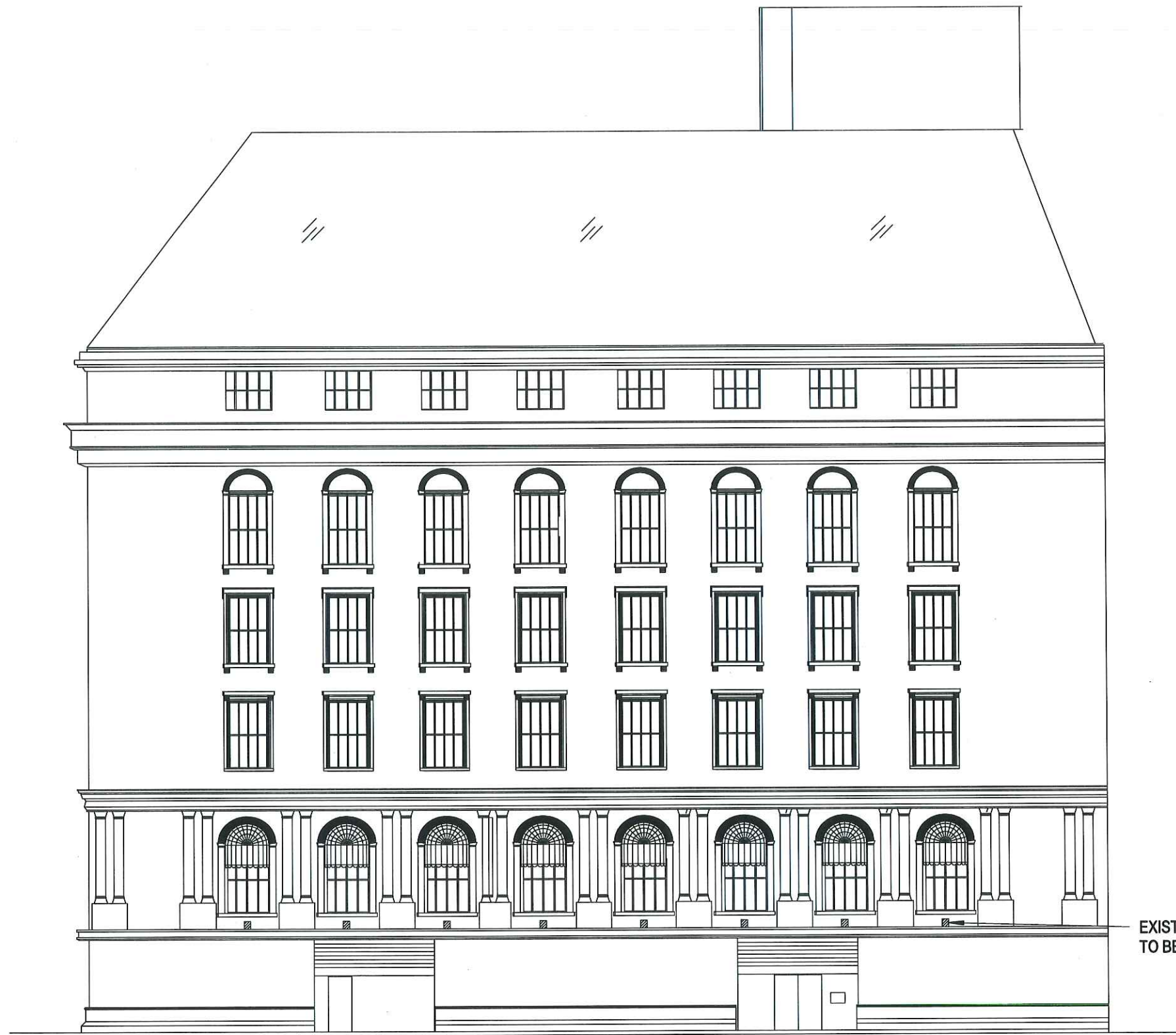
1 FRANKLIN STREET EXISTING ELEVATION
1" = 20'-0"

DATE 06/27/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square Boston, MA 02110-1209 T 617 426 1680 F 617 426 2187
NO. A-06	TITLE FRANKLIN STREET FACADE ELEVATIONS		



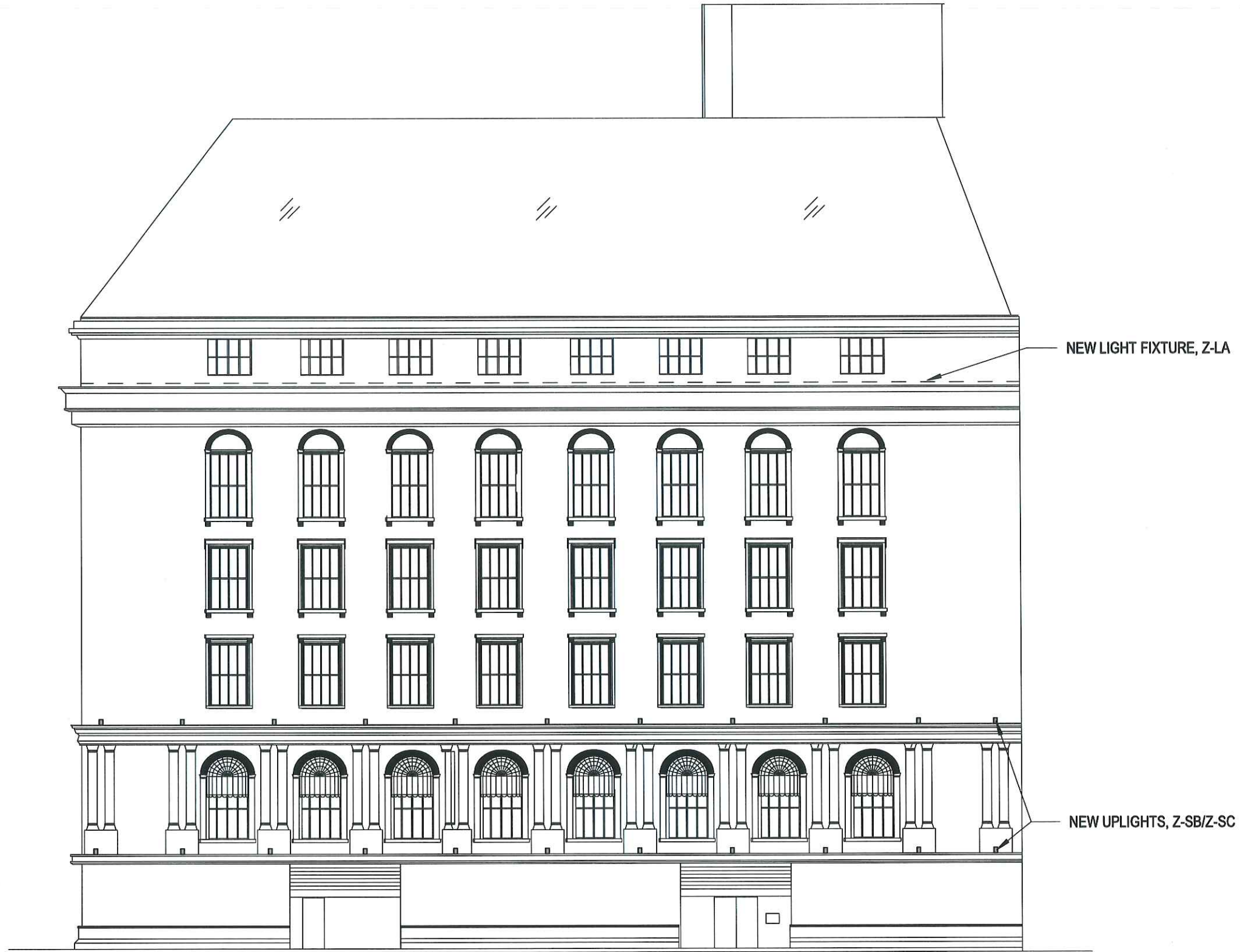
1 FRANKLIN STREET PROPOSED ELEVATION
1" = 20'-0"

DATE 06/20/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-07	TITLE FRANKLIN STREET FACADE ELEVATIONS		



1 OLIVER STREET EXISTING FACADE
1/16" = 1'-0"

DATE 06/27/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-08	TITLE OLIVER STREET FACADE ELEVATIONS		



① OLIVER STREET PROPOSED FACADE
1/16" = 1'-0"

DATE 06/20/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square T 617 426 1680 Boston, MA 02110-1209 F 617 426 2187
NO. A-09	TITLE OLIVER STREET FACADE ELEVATIONS		



DATE
07/02/18

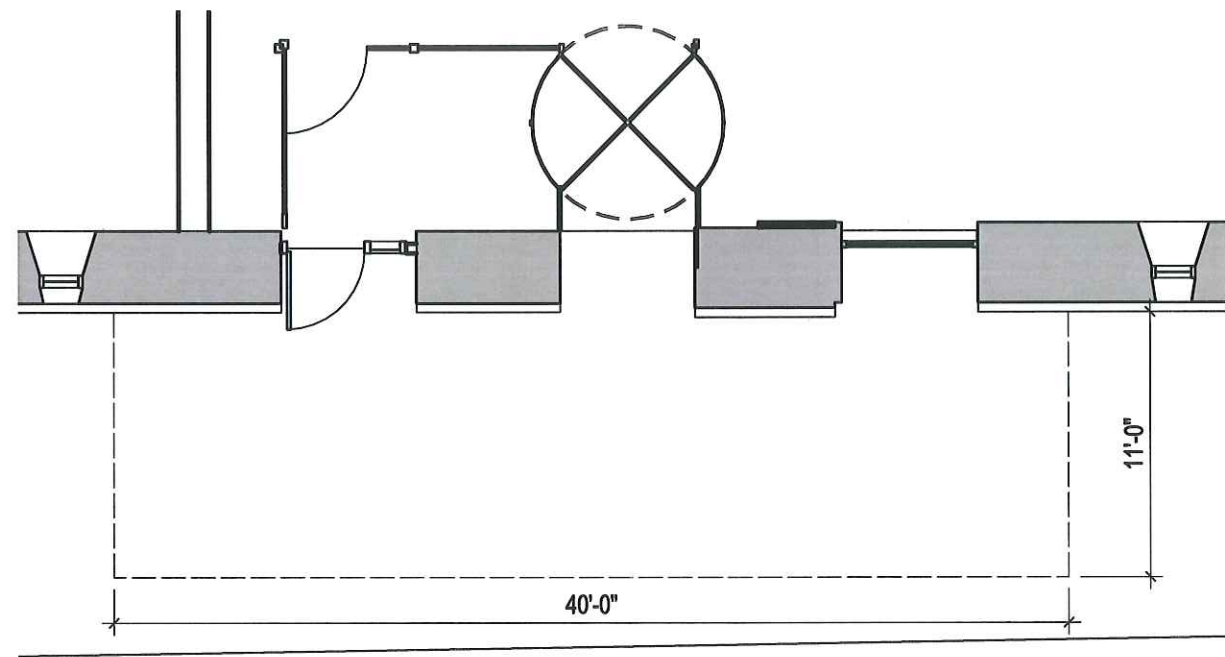
CLIENT
THE LANGHAM BOSTON

PROJECT
THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS

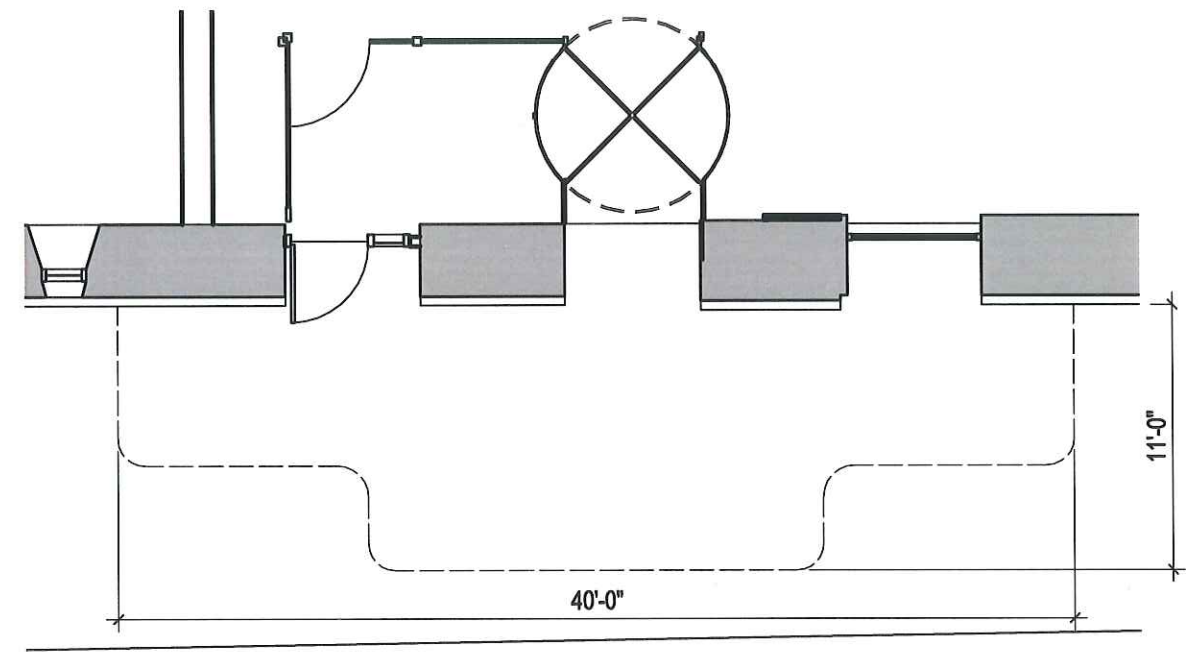
NO.
A-II

TITLE
EXISTING CANOPY PHOTOS

One Winthrop Square 617 426 1680
Boston, MA 02110-1209 617 426 2187



① NEW CANOPY ENLARGED PLAN
1/8" = 1'-0"

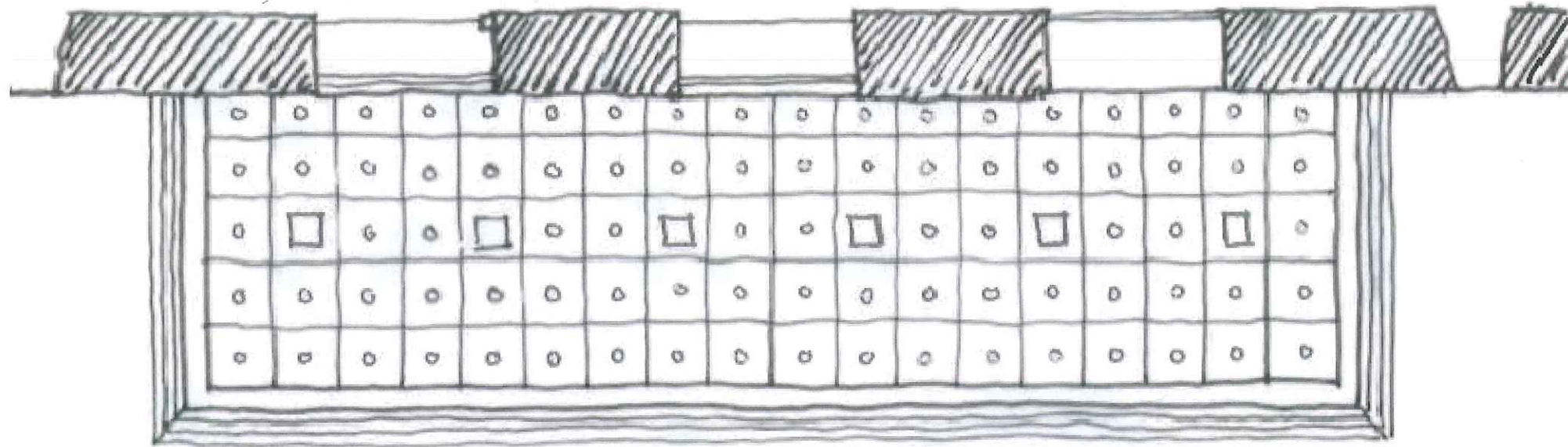


② EXISTING CANOPY ENLARGED PLAN
1/8" = 1'-0"

DATE 06/20/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-12	TITLE ENLARGED CANOPY PLANS AND ELEVATIONS		



DATE 07/02/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-13	TITLE CANOPY DESIGN - OPTION ONE - INSPIRATION IMAGES		

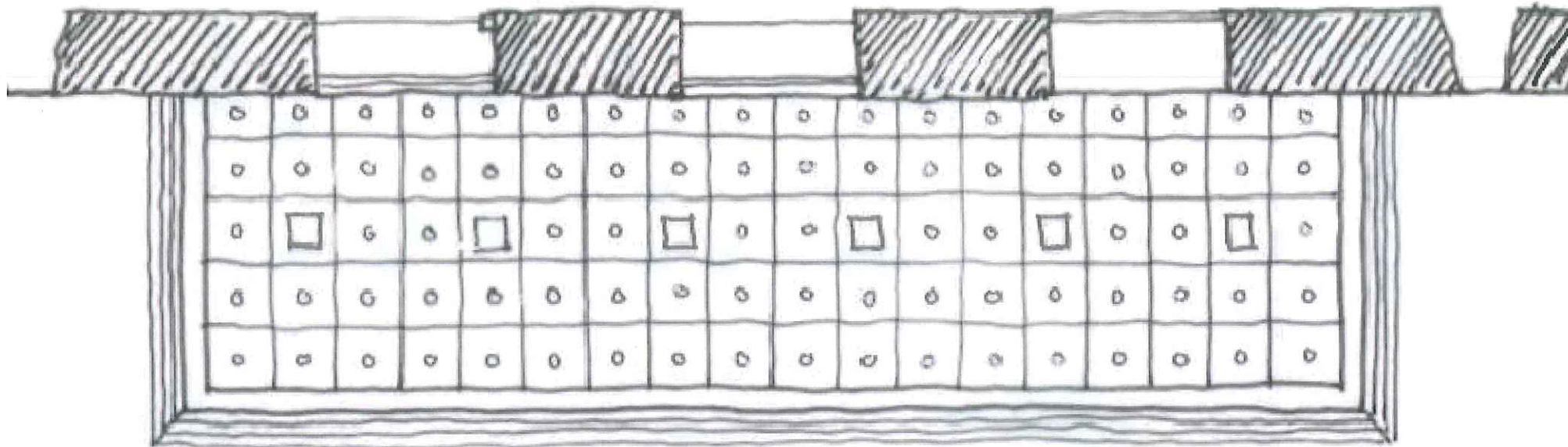


OPTION I SUMMARY:

- INSPIRED BY THE PARAMOUNT HOTEL NYC, CARNEGIE HALL, THE LANGHAM'S CURRENT CANOPIES IN CHICAGO AND NEW YORK, AND THE IMAGE YOU FOUND WITH THE SQUARE PANELS IN THE STRUCTURAL FRAME
- MATERIALS: BRONZE TO MATCH THE DARK METALS OF THE WINDOWS FRAMES/MUNTINS AND ENTRY DOOR SYSTEM, TRANSLUCENT GLASS
- THE LIGHTING IS TO MATCH THE OTHER LANGHAM PROPERTIES WHERE THE LAMPING IS RECESSED YET EXPOSED INTO THE CANOPY SYSTEM. THE PANELS OF THE CANOPY STRUCTURE WOULD BE TRANSLUCENT GLASS THAT HIDE THE LAMPING BUT GLOWS WHEN LAMP IS TURNED ON
- IF "THE LANGHAM" IS DESIRED ON SIGN, THE INDIVIDUAL GLASS PANELS COULD HAVE A LETTER IN SERIF TYPEFACE THAT SPELL OUT THE NAME SO IT GLOWS AT NIGHT



DATE 07/02/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square 617 426 1680 Boston, MA 02110-1209 617 426 2187
NO. A-15	TITLE CANOPY DESIGN - OPTION TWO - INSPIRATION IMAGES		



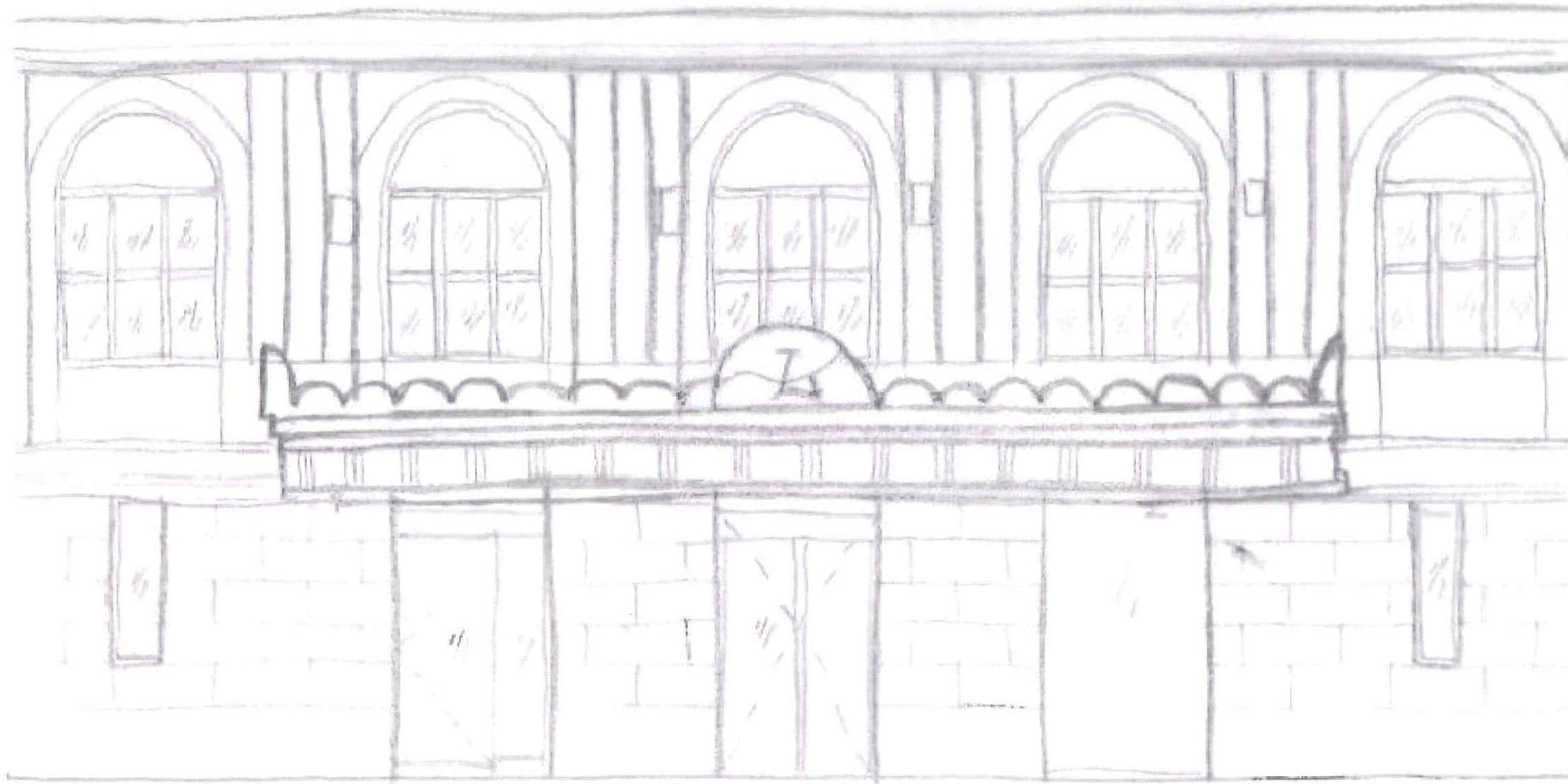
OPTION 2 SUMMARY:

• SIMILAR TO OPTION 1

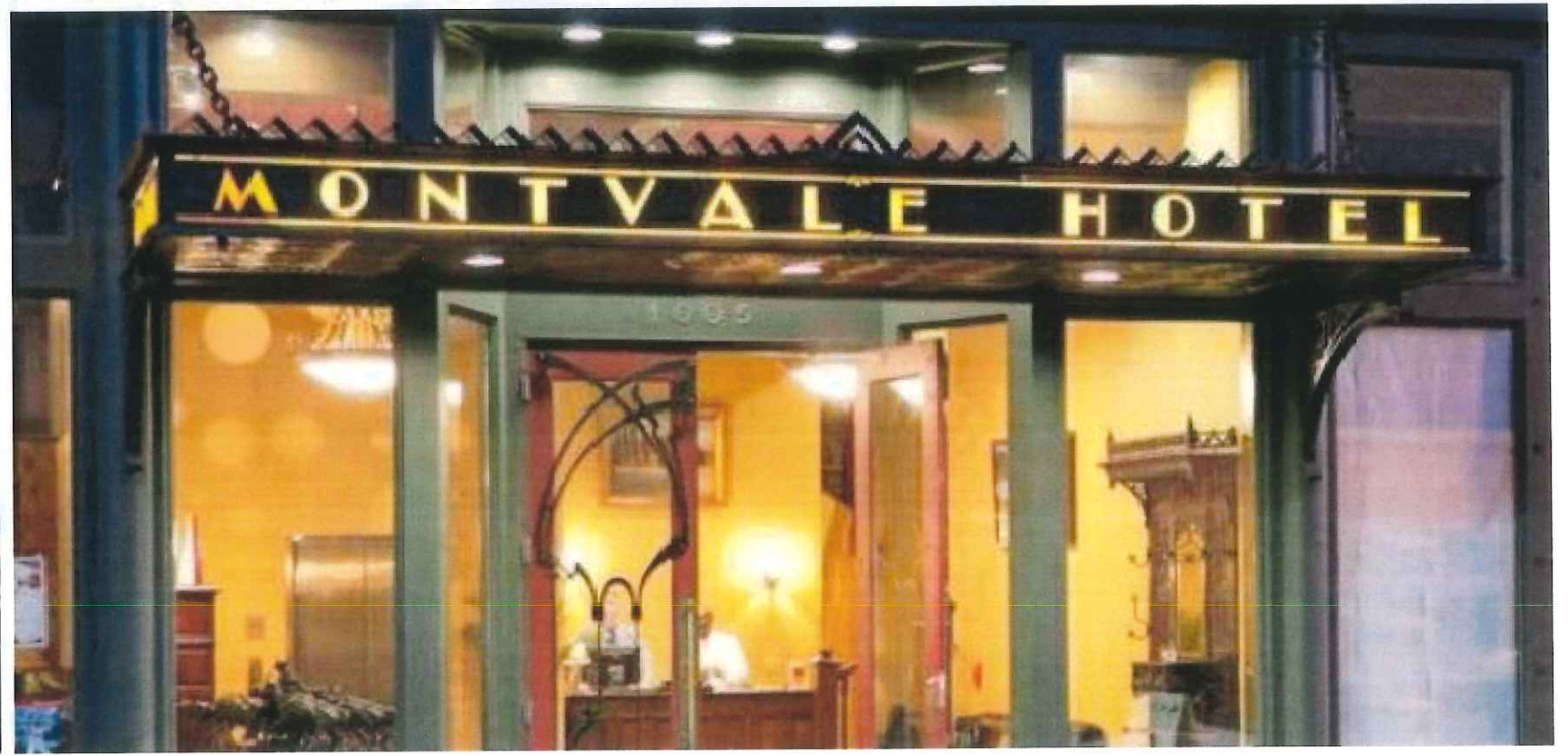
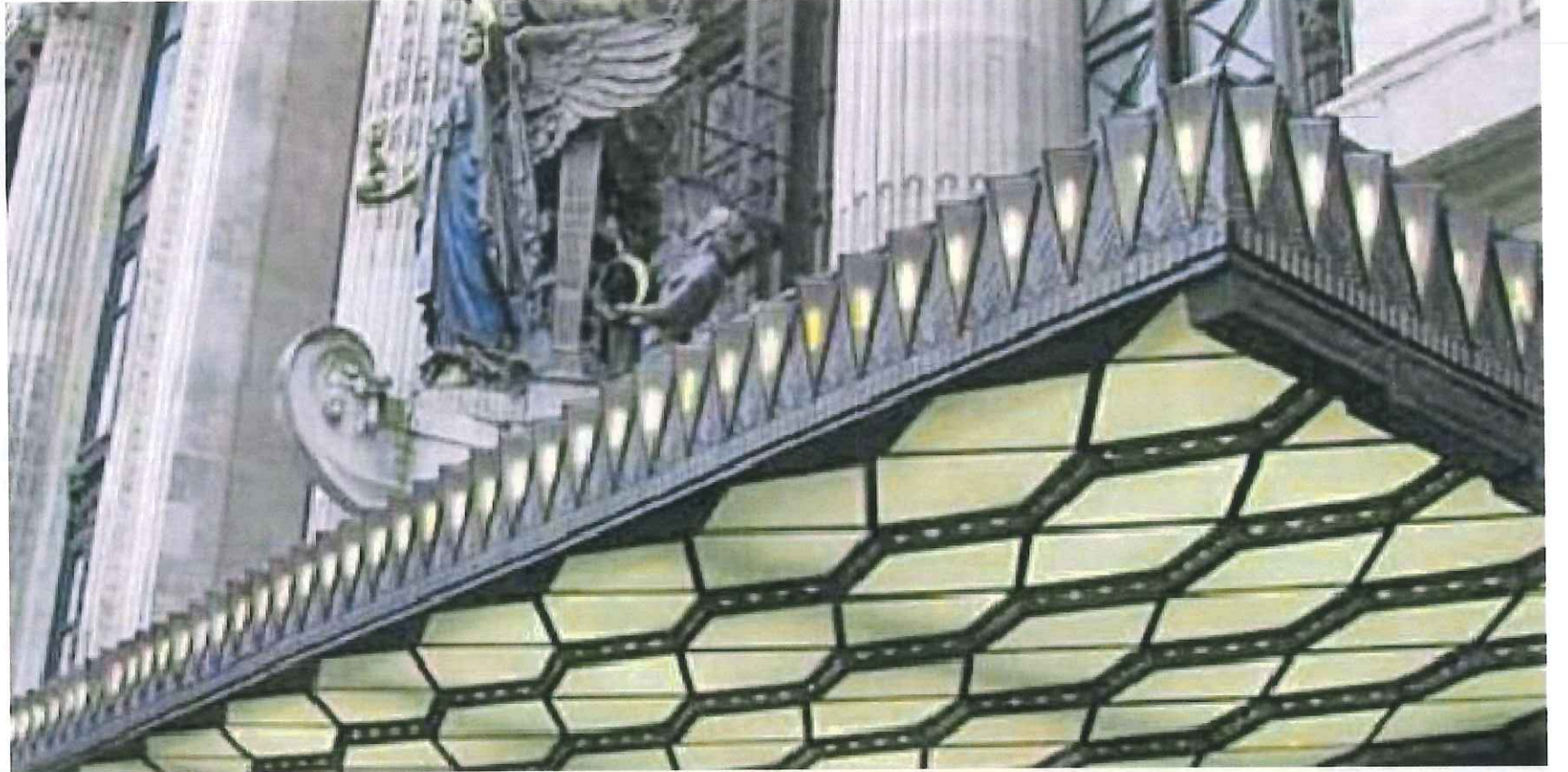
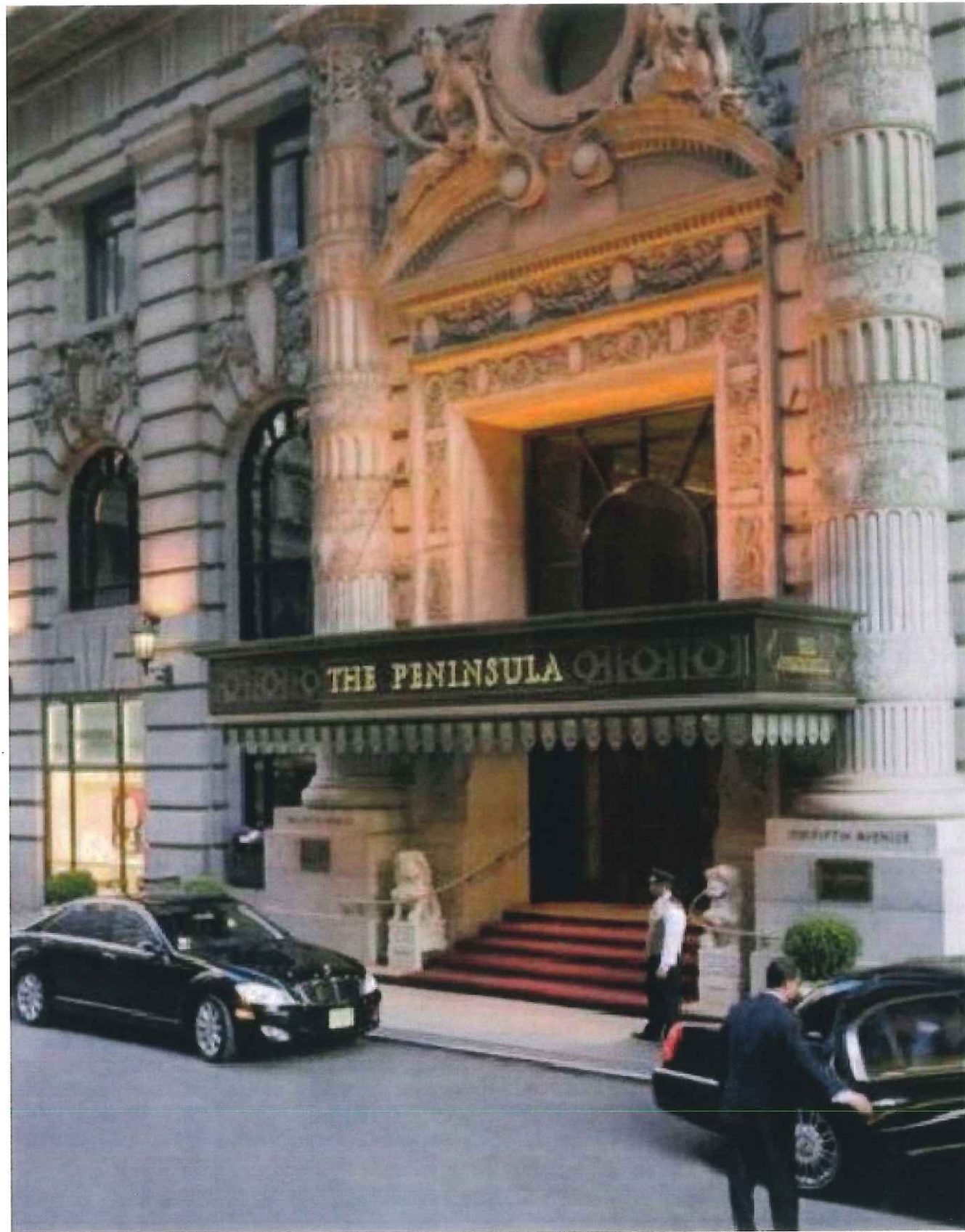
• LANGHAM BRAND LOGO INCORPORATED WITH THE SERIF TYPEFACE 'L' AT CENTER. IF "THE LANGHAM" IS DESIRED ON SIGN, IT COULD USE THE SAME APPROACH AS STATED IN OPTION 1

• DECORATIVE ELEMENTS MIMIC THE CURVES OF THE WINDOW BAYS THAT MATCH THE DETAILING FOUND IN THE MOLDING OF THE WYETH (SEE PHOTO AND SKETCH)

• RCP MATCHES OPTION 1



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NO. A-16	TITLE CANOPY DESIGN - OPTION TWO - PLAN AND ELEVATION		



DATE 07/02/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square T 617 426 1680 Boston, MA 02110-1209 F 617 426 2187
NO. A-17	TITLE CANOPY DESIGN - OPTION THREE - INSPIRATION IMAGES		

TYPE "Z-LA"
 EXTERIOR FACADE



OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR + EXTERIOR | L50 GRAZE

DATE	PROJECT	FIRM	TYPE
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THE L50 INCLUDES PATENTED OPTICAL DESIGN THAT DELIVERS THE WIDEST RANGE OF BEAM ANGLE OPTIONS FOR PRECISE COVE, WALL GRAZING, WALL WASHING OR LINE OF LIGHT APPLICATIONS. EXCLUSIVE FLIP TO FLAT™ HINGE DESIGN PROVIDES FLEXIBILITY WHEN MANAGING SMALL COVE DETAILS. TROV OFFERS SMOOTH, FLICKER FREE DIMMING DOWN TO 0%.



FEATURES:

- DIM TO 0%, ELV REVERSE PHASE
- 24 BEAM ANGLES
- MULTI-VOLT
- FLIP TO FLAT™
- 6 CCT OPTIONS
- 80+ AND 90+ CRI OPTIONS
- IP54 INTERIOR AND IP66 EXTERIOR OPTIONS

MODEL/ SIZE	INTERIOR/ EXTERIOR	LENGTH	POWER	CCT	CRI	VOLTAGE	OPTICS
L50	I E	12" 48"	02 04 06 08 10 12	WHITE CCT	MONO COLOR	80 90*	GRAZING WASHING

EXAMPLE L50-I-48-10-27-90-MULT-15x65 *90 CRI not available in 2700K or 5000K **120 is only available with Exterior option. See L55 spec sheet for interior cove options. *** Red is not available in 12W or 10W. *** Green is not available in 12W.

PERFORMANCE	WATTS	OPTIC	LUMEN OUTPUT	EFFICACY
2W	9" x 29"	110 lm/LF (1361 lm/m)	55 lm/W	
4W	9" x 29"	302 lm/LF (1037 lm/m)	76 lm/W	
6W	9" x 29"	482 lm/LF (1614 lm/m)	80 lm/W	
8W	9" x 29"	675 lm/LF (2224 lm/m)	84 lm/W	
10W	9" x 29"	785 lm/LF (2644 lm/m)	79 lm/W	
12W	9" x 29"	923 lm/LF (3109 lm/m)	77 lm/W	

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX	80+, 90+				
COLOR CONSISTENCY	2-STEP MACADAM ELI IP5E				
LUMEN DEPRECIATION / RATED LIFE	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
2W-12W	>150,000	>70,000	>50,000	>25,000	>25,000

* CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL	POWER CONSUMPTION	MAX FIXTURE RUN LENGTH						
		2W/LF	4W/LF	6W/LF	8W/LF	10W/LF	12W/LF	
	2W/LF (6.6W/M); 4W/LF (13.2W/M); 6W/LF (19.8W/M); 8W/LF (26.4W/M); 10W/LF (33W/M); 12W/LF (39.6W/M)							
	2W/LF (0.9W/M) @ 220V - 277V							
	4W, 6W, 8W, 10W, 12W @ 0, 9, 2W @ 0, 9							
	MULTIVOLT: 110-277VAC, 50/60 Hz							
	INTEGRAL TO FIXTURE, DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS							
	-40° F TO 122° F (-40° C TO 50° C)							
	-40° F TO 122° F (-40° C TO 50° C)							
	40° F TO 176° F (40° C TO 80° C)							

ECOSENSE LIGHTING INC.
 837 NORTH SPRING STREET
 SUITE 103
 LOS ANGELES, CA 90012

P • 310.496.6255
 F • 310.496.6256
 T • 855.632.6736
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TYPE "Z-LA"
 EXTERIOR FACADE



OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR + EXTERIOR | L50 GRAZE

DATE	PROJECT	FIRM	TYPE
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CONTROL	DIMMING	110-277VAC, ELV TYPE 0.07%-100%, REVERSE PHASE, TRAILING EDGE
PHYSICAL	DIMENSIONS HOUSING / LENS	W 1.6" x H 2" x L 12"/48"; (41.6mm x 50.5mm x 304.7mm/1201mm)
	WEIGHT	EXTRUDED ALUMINUM, UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS; PLASTIC ENDCAPS RUBBER OVERMOLD FOR CABLE ASSEMBLY
	CONNECTORS	1.52LBS / 0.69KG (1FT); 4.95LBS / 2.25KG (4FT)
	ENVIRONMENT	INTEGRAL MALE / FEMALE CONNECTORS
	BEAM ANGLE	INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP54
	MOUNTING OPTIONS	OUTDOOR • ETL CERTIFIED FOR WET LOCATIONS IP66
		IMPACT RATED TO IK10
		GRAZING, WASHING, COVE, ASYMMETRIC, LINE OF LIGHT
		INTEGRAL MOUNTING AND ADJUSTABLE AIMING FROM 0°-180° IN 15° INCREMENTS

FIXTURE RATING & CERTIFICATIONS
 CE, ETL CERTIFIED
 RoHS COMPLIANT
 ENERGY STAR COMPLIANT
 DLC COMPLIANT
 RCM CERTIFIED



LIMITED WARRANTY 5 YEARS

WIRING OPTIONS (MVOLT): 110-277VAC

Power Cable Assembly, TROV, Leader/Jumper, 10 foot	CBL-3P-L-UNV-10*
Power Cable Assembly, TROV, Leader/Jumper, 50 foot	CBL-3P-L-UNV-50*
Power Cable Assembly, TROV, Jumper, 5 foot	CBL-3P-L-UNV-05**
Power Cable Assembly, TROV, Jumper, 1 foot	CBL-3P-L-UNV-01**
Power Cable Assembly, TROV, Male and Female terminator caps	CBL-3P-L-UNV-CAPS

* Two (2) terminators are included with the 10' and 50' power cable. One Leader need per circuit/fixture run. Cables are not plenum rated. ** If using the 'E' or 'I' power cable assembly as a leader to power a run one set of CBL-3P-L-UNV-CAPS will also be need per cable.

0-10V CONTROL OPTIONS

100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated	LDCM-PL-120-277-010V-GR
--	-------------------------

All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Mounting

Mounting Track and Clips Set, 48 Inch Track, 8 Clips	MNT-L-TRKCLIP-48	48" track and clips set will work with one 48" fixture or four 12" fixtures.
Mounting Track and Clips Set, 12 Inch Track, 2 Clips	MNT-L-TRKCLIP-12	12" track will not work with 48" fixtures.
Mounting Track Clip, TROV, Set of 2	MNT-L-CLIP	Clips needed = 12" fixtures need 1 set of 2 and 48" fixtures need 2 sets of 2.
90 Degree L Bracket, TROV, Set of 2	MNT-L-LBKT	L Brackets needed = 12" fixtures need 1 set of 2 and 48" fixtures need 1 set of 2.
Angle Locking Clip, TROV, Pack of 10	MNT-L-ANGLCK	Angle Locks needed = 12" fixtures need 1 and 48" fixtures need 2. (Must order separately)
Mounting, Fine Adjustment Bracket, TROV	MNT-L-FAB	Fine Adjustment Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
Mounting, Fine Adjustment L-Bracket, TROV	MNT-L-LFAB	Fine Adjustment L-Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.

Snap-on Lenses

Snap-on Lens, Frosted, 12 inch, L50	LENS-L50-FROST-12	Snap-on Lenses need = One 12" lens is needed per 12" fixture and one 48" lens is needed per 48" fixture. Snap on Lenses will not work with the asymmetric fixture. Clear lenses can be used to hold colored filters to customize the output color of any TROV fixture, except the ASYM. Color filters supplied by others.
Snap-on Lens, Frosted, 48 inch, L50	LENS-L50-FROST-48	
Snap-on Lens, Clear, 12 inch, L50	LENS-L50-CLEAR-12	
Snap-on Lens, Clear, 48 inch, L50	LENS-L50-CLEAR-48	

Wall Mount Arm

Wall Mount Arm, 6 inch, TROV	WMA-L-CA-06	Wall Mount Arms needed = For individual fixture installations two arms and one end set will be needed per fixture. For continuous run installation one endset will be needed per run. Each end set contains one left and one right end plate. One joining set will be needed per joint. One arm per fixture will be need plus one extra arm to complete the run. For example: A 10ft run made with two 4ft and two 3ft fixtures will contain: 1 x WMA-L-END, 3 x WMA-L-JNR, and 5 x WMA-L-CA-12. Leader cables are not included with wall mount arms, end sets, or joiners sets.
Wall Mount Arm, 12 inch, TROV	WMA-L-CA-12	
Wall Mount Arm, 18 inch, TROV	WMA-L-CA-18	
Wall Mount Arm, 24 inch, TROV	WMA-L-CA-24	
Wall Mount Arm End Plate Set, TROV, Includes Left and Right	WMA-L-END	
Wall Mount Arm Joiner Plate, TROV	WMA-L-JNR	

Louvers

Louver, Asymmetric, 12 inch, L50	LV-L50-ASYM-12	Louvers Needed = One 12" louver is needed per 12" fixture and one 48" louver is needed per 48" fixture. 48" louver is made up of four 12" louvers. Louvers cannot be used with the asymmetric fixture.
Louver, Asymmetric, 48 inch, L50	LV-L50-ASYM-48	
Louver, Symmetric, 12 inch, L50	LV-L50-SYM-12	
Louver, Symmetric, 48 inch, L50	LV-L50-SYM-48	
Louver, Honeycomb, 12 inch, L50	LV-L50-HCOMB-12	
Louver, Honeycomb, 48 inch, L50	LV-L50-HCOMB-48	

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 SUITE 103
 LOS ANGELES, CA 90012

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DATE	CLIENT	PROJECT	One Winthrop Square	T 617 426 1680
06/20/18	THE LANGHAM BOSTON	THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	Boston, MA 02110-1209	F 617 426 2187
NO. A-19	TITLE EXTERIOR LIGHTING			

TYPE "Z-LA"
 EXTERIOR FACADE



OVERVIEW • SPECIFICATIONS • ORDERING INTERIOR + EXTERIOR | L50 GRAZE

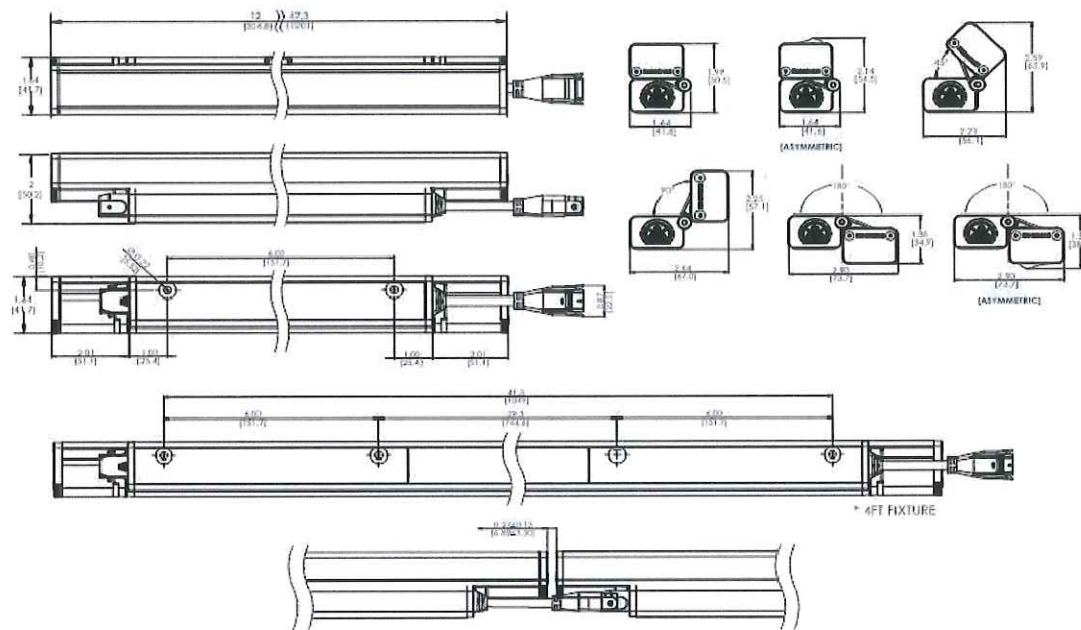
DATE	PROJECT	FIRM	TYPE
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OPTIONAL ACCESSORIES
Masking Plates
 Masking Plate, 3 inch high, 12 inch, L50 & L35 MP-L50-3H-12 Masking Plates needed = One 12" lens is needed per 12" fixture and one 48" lens is needed per 48" fixture.
 Masking Plate, 3 inch high, 48 inch, L50 & L35 MP-L50-3H-48

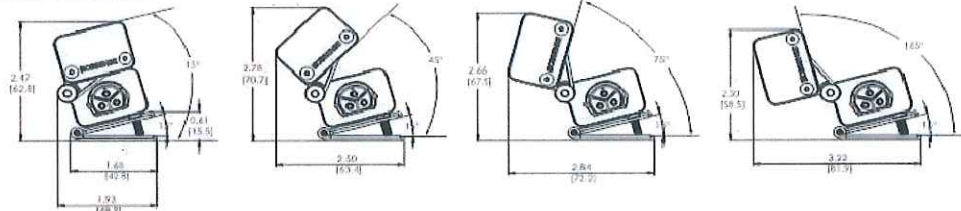
Landscape Stake
 Landscape Stake, 6 inch, TROV, Set of 2 LS-L-STK-06 Landscape Stakes needed = 12" and 48" fixtures both need one set of 2.
 Landscape Stake, 12 inch, TROV, Set of 2 LS-L-STK-12
 Landscape Stake, 18 inch, TROV, Set of 2 LS-L-STK-18

Wire Box
 Conduit Connection, Wire Box, TROV, Interior Only, L50 CC-L-WIREBOX Wire box can be used instead of a leader cable to start a run. 1/2" conduit fitting can attach directly to the box on one end and the fixture to the other.

DIMENSIONS + MOUNTING



Fine Adjustable Bracket:



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TYPE "Z-SB"
 EXTERIOR FACADE



OVERVIEW • SPECIFICATIONS • ORDERING INTERIOR + EXTERIOR | F170 SINGLE

DATE	PROJECT	FIRM	TYPE
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RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F170 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 2900 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AMBILITY USING ONLY ONE TOOL.

FEATURES:

- ONLY 5° LASER SPOT
- STRONGEST CBCP IN MARKET
- POWERFUL OUTPUT 1200-2900LMS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 11 UNIQUE BEAM ANGLES
- MULTIVOLT (110-277V)
- 8 CCT'S: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



FIXTURE MODEL	FIXTURE CONFIG.	POWER/LUMEN OUTPUT*	CCT/COLOR	CRI	BEAM ANGLE	FINISHES	ACCESSORIES	WIRING AND MOUNTING
F170	1S	LO - Low Output MO - Medium Output HO - High Output	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 45 - 6500K RD - Red GR - Green BL - Blue AM - Ambi	8 - 80 9 - 90+ X - Far RD, GR, BL, AM	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Wide Flood (60°) 80 - Very Wide Flood (80°) E1 - Elliptical 1 (15"x60") E2 - Elliptical 2 (30"x60") E3 - Elliptical 3 (60"x15") E4 - Elliptical 4 (60"x30")	K - Black Z - Bronze S - Silver W - White C - Custom *Select color at parkone.com	X - No Accessory H - Half Snoot F - Full Snoot C - Custom Will ship as X if not specified	A - 19" Flying Lead: Internal Cable Kit; Bottom Exit; 1/2" NPT; UL/CE Rated B - 10" External Cable Side Exit; Surface Mount; UL/CE Rated C - 10" External Cable Bottom Exit; Surface Mount; 1/2" NPT; UL/CE Rated Will ship as A if not specified

EXAMPLE: F170-1S-LO-22-8-05-S-X-A
 *See Photometry Chart for Lumen Data

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT	OPTIC	EFFICACY	CBCP
	15	Low Output	1321	5°	102	76,168
	25	Medium Output	2239	5°	90	129,065
	38	High Output	2907	5°	77	167,560

ALL LUMEN DATA IS FROM 4000K BCR1 FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX 80+, 90+
 COLOR CONSISTENCY 3-STEP MACADAM ELLIPSE

LUMEN DEPRECIATION / RATED LIFE	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
HIGH	>60,500*	>36,300*	>36,300*	>60,500*	>31,700*
	>(181,000)**	>(109,000)**	>(109,000)**	>(69,800)**	>(69,800)**

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
 ** ESTIMATED HOURS

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DATE 07/02/18	CLIENT THE LANGHAM BOSTON	PROJECT THE LANGHAM RENOVATION - BOSTON LANDMARKS REVIEW DRAWINGS	One Winthrop Square Boston, MA 02110-1209	617 426 1680 617 426 2187
NO. A-20	TITLE EXTERIOR LIGHTING			

TYPE "Z-SB"
 EXTERIOR FACADE



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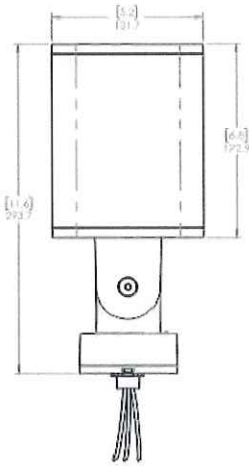
INTERIOR + EXTERIOR | F170 SINGLE

DATE	PROJECT	FIRM	TYPE
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WIRING GUIDE

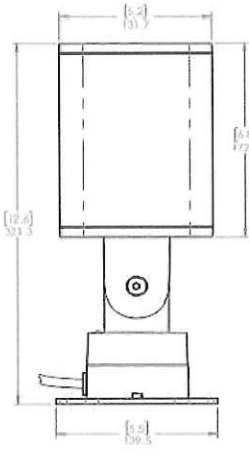
RISE is an interior and exterior rated (IP66) fixture that is available in three different wiring options:

Flying Leads - Internal Cable
(UL + CE Rated)



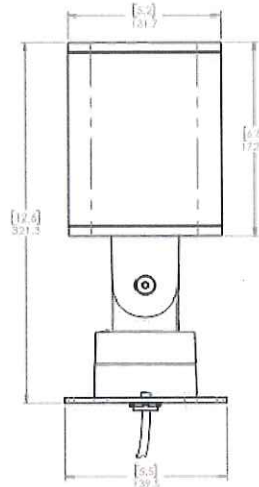
- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy Junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

External Cable Side Exit
(UL + CE Rated)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05m)

External Cable Bottom Exit
(UL + CE Rated)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2" NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10' (3.05m)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/rise for the most updated information.

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TYPE "Z-SC"
 EXTERIOR FACADE



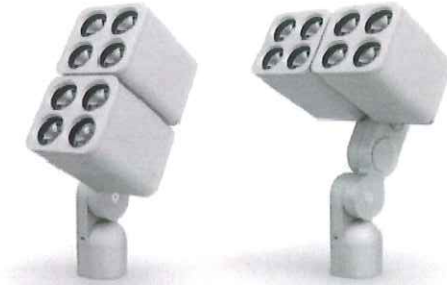
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INTERIOR + EXTERIOR | F170 DUO

DATE	PROJECT	FIRM	TYPE
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RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F170 DUO IS A UNIQUE CONFIGURATION THAT PAIRS UP TWO RISE F170 SINGLES ALLOWING YOU TO DOUBLE YOUR LUMEN POWER, DELIVERING UP TO 5600 LUMENS. THIS UNIQUE FIXTURE CAN BE USED TO POWERFULLY LIGHT ONE OBJECT OR AIMED SEPARATELY, ALLOWING YOU TO ILLUMINATE MULTIPLE APPLICATIONS. THIS POWERFUL AND COMPACT LED LIGHT FIXTURE CAN BE USED IN SPOT, ACCENT, LANDSCAPE, ARCHITECTURAL, AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY OF EACH FIXTURE HEAD USING ONLY ONE TOOL.



FEATURES:

- UNIQUE BRACKETRY DESIGN FOR DUAL HEAD, SINGLE POINT INSTALLATION
- MACRO™ LOCK - 180° TILT AND 360° PAN
- POWERFUL OUTPUT 2400-5600LMS
- 11 UNIQUE BEAM ANGLES
- MULTIVOLT (110V-277V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED

FIXTURE MODEL	FIXTURE CONFIG.	POWER/LUMEN OUTPUT*	CCT/COLOR	CRI	BEAM ANGLE	FINISHES	ACCESSORIES	WIRING AND MOUNTING
F170	2V - 2 Heads, Vertical Orientation 2H - 2 Heads, Horizontal Orientation	LO - Low Output MO - Medium Output HO - High Output	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber	8 - 80 9 - 90+ X - For RD, GR, BL, AM *30 CRI not available in 2200K, 2500K, 3000K, and 6500K	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Wide Flood (60°) 80 - Very Wide Flood (80°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x45°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom* *select color at ecosenselighting.com	X - No Accessory H - Half Snoot F - Full Snoot C - Custom *Wall plate as X if not specified	C - 10' External (Exterior Rated) Bottom Exit, UL/CE Rated

*SEE PHOTOMETRY CHART FOR LUMEN DATA

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT	OPTIC	EFFICACY	CBCP
	26	Low Output	2,642	5°	102	152,336
	52	Medium Output	4,478	5°	90	258,150
	78	High Output	5,814	5°	77	335,120

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX 80+, 90+
 COLOR CONSISTENCY 5-STEP MACADAM E1 IPSE

LUMEN DEPRECIATION / RATED LIFE	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
HIGH	>60,500*	>36,3000*	>60,500*	>31,700*	
	>(181,000)**	>(109,000)**	>(69,800)**		

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALIBRATOR
 ** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/products/rise for the most updated information.

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NO. A-22	TITLE EXTERIOR LIGHTING			

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DATE	PROJECT	FIRM	TYPE
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ELECTRICAL	WATTAGE POWER FACTOR THD OPERATING VOLTAGE DRIVER STARTUP TEMPERATURE OPERATING TEMPERATURE STORAGE TEMPERATURE	LOW OUTPUT = 26W; MEDIUM OUTPUT = 52W; HIGH OUTPUT = 78W >0.9 for 120V (HO, MO, LO), 230V (HO, MO), 277V (HO) <0.2 for 120V (HO, MO, LO), 230V (HO, MO), 277V (HO) MULTIVOLT: 110V-277VAC, 50/60Hz INTEGRAL TO FIXTURE, DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS -40°F TO 122°F (-40°C TO 50°C) -40°F TO 122°F (-40°C TO 50°C) -40°F TO 176°F (-40°C TO 80°C)
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CONTROL	DIMMING	110-277VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE
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PHYSICAL	DIMENSIONS HOUSING/LENS WEIGHT ENVIRONMENT MOUNTING OPTIONS WIRING TOOLS WIND LOAD (EPA) CORROSION RESISTANT	W 10.57" x H 16.04" x L 10.17"; (268.5mm x 407.5mm x 258.2mm) EXTRUDED ALUMINUM, UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS 16LBS / 7.3KG OUTDOOR • UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS WHEN USED WITH SURFACE MOUNT TENON ACCESSORY. (SOLD SEPARATELY) C - EXTERNAL (EXTERIOR RATED CABLE) BOTTOM EXIT; UL/CE RATED MOUNTS ON ANY 2-3/8" PIPE OR TENON LENGTH OF EXTERIOR CABLE 10' (3.05M) SCREWS TO REPLACE THE LENS AND BEZEL: HEX 3mm; 1.25 ± 0.25 Nm SCREWS FOR MACRO LOCK™ PAN AND TILT: HEX 5mm; 27.0 ± 2.0 Nm SCREW FOR MAIN TILT ARM: HEX 6mm; 27.0 ± 2.0 Nm SET SCREWS FOR TENON MOUNT: HEX 4mm; 9.5 ± 0.5 Nm EFFECTIVE PROJECTED AREA 2H=0.74ft²; 2V=0.93ft² RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR EXTERIOR AND WEATHER EXPOSURE. THIS FINISH IS TESTED AGAINST THE MOST SEVERE SPECIFICATIONS, PROVIDING SIGNIFICANT RESISTANCE TO COLOR CHANGE.
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FIXTURE RATING & CERTIFICATIONS	CE, UL CERTIFIED RoHS COMPLIANT, IK10	
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LIMITED WARRANTY	5 YEARS
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0-10V CONTROL OPTIONS
 100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated LDCM-PL-120-277-010V-GR
 All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES
Snoots
 Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F170-H-(K,Z,S,W,C)
 Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) F170-F-(K,Z,S,W,C)

Interchangeable Lens	
5 Degree	F170-LENS-05
10 Degree	F170-LENS-10
15 Degree	F170-LENS-15
20 Degree	F170-LENS-20
40 Degree	F170-LENS-40
60 Degree	F170-LENS-60
80 Degree	F170-LENS-80
15x60 or 60x15 Degree	F170-LENS-E1E3
30x60 or 60x30 Degree	F170-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 80, 15x60 or 60x15, 30x60 or 60x30)	F170-LENS-FULLSET

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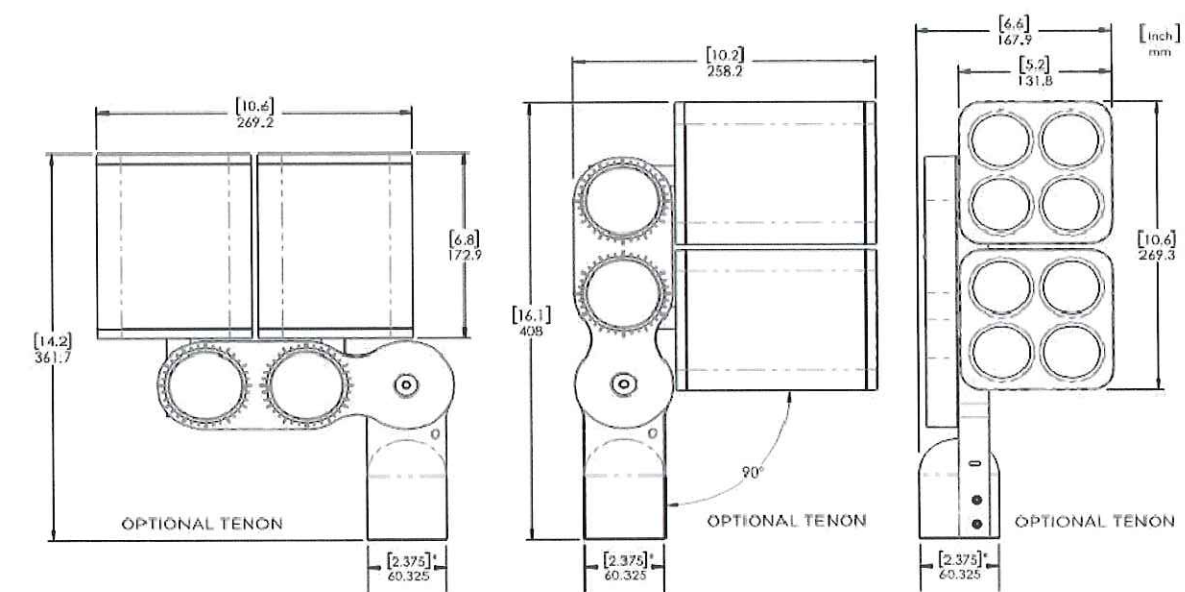
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DATE	PROJECT	FIRM	TYPE
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Color Filters	
Red	F170-FILTER-RED
Blue	F170-FILTER-BLUE
Green	F170-FILTER-GREEN
Amber	F170-FILTER-AMBER

Surface Mount Tenon
 F170 and F380 Multi-Up Surface Mount Tenon (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) RISE-MULTI-SMP-(K,Z,S,W,C)
 Surface Mount Tenon is required for F170 Duo 3G Bridge Installations.

DIMENSIONS - F170 2V (VERTICAL)



*FITS STANDARD 2" (50.8mm) TENON WITH A 2 3/8" (60.325mm) OUTER DIAMETER

NOTE: Information on this Spec Sheet is subject to change; please visit ecosenselighting.com/products/raise for the most updated information.

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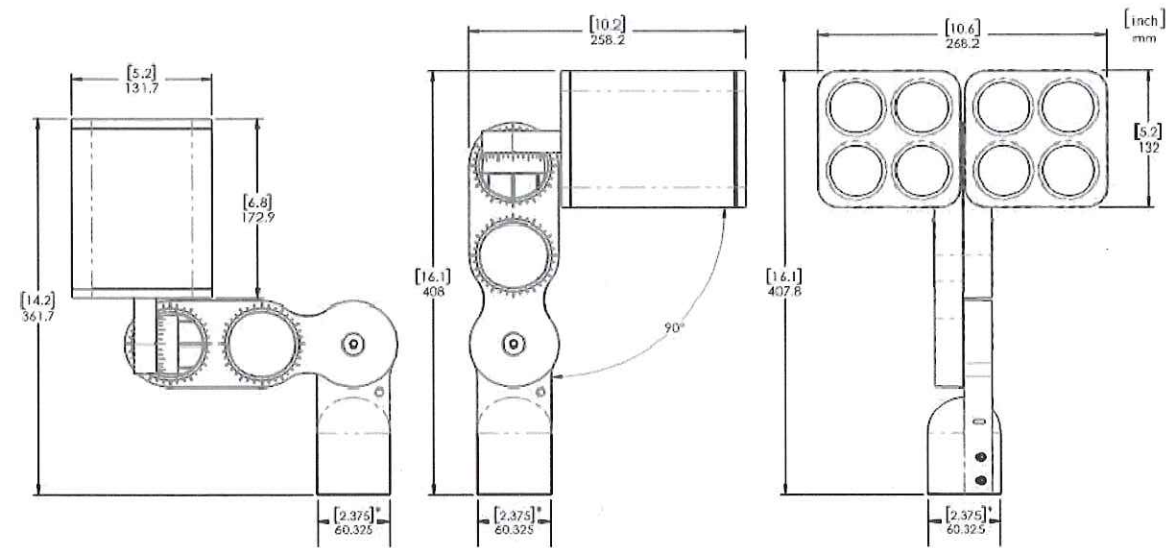
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NO. A-23	TITLE EXTERIOR LIGHTING		

DATE	PROJECT	FIRM	TYPE
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DIMENSIONS - F170 2H (HORIZONTAL)



*FITS STANDARD 2" (50.8mm) TENON WITH A 2 3/8" (60.325mm) OUTER DIAMETER

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 SPECIFICATION TO BE DEVELOPED BY APPOINTED
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EXISTING
 LIGHT
 FIXTURE

EXISTING UPLIGHT



PROPOSED UPLIGHT

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NO. A-24	TITLE EXTERIOR LIGHTING		



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NO. A-25	TITLE EXTERIOR RENDERING - PEARL STREET		



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NO. A-26	TITLE EXTERIOR RENDERING - FRANKLIN STREET		



DATE
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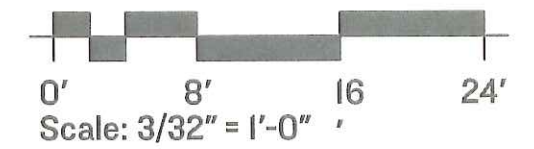
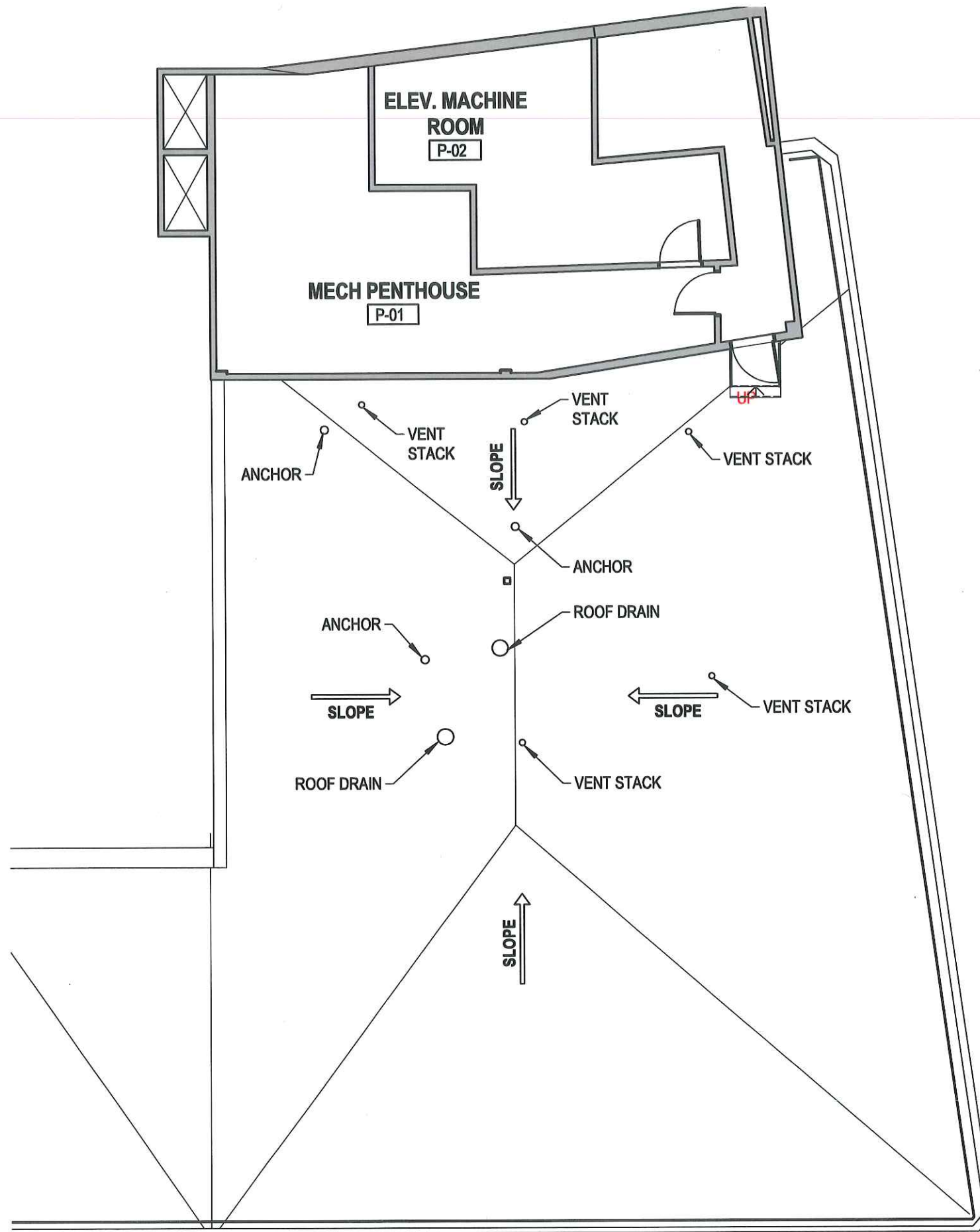
CLIENT
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PROJECT
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NO.
A-27

TITLE
EXTERIOR RENDERING - OLIVER STREET

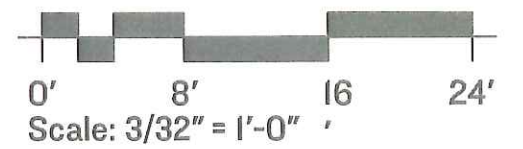
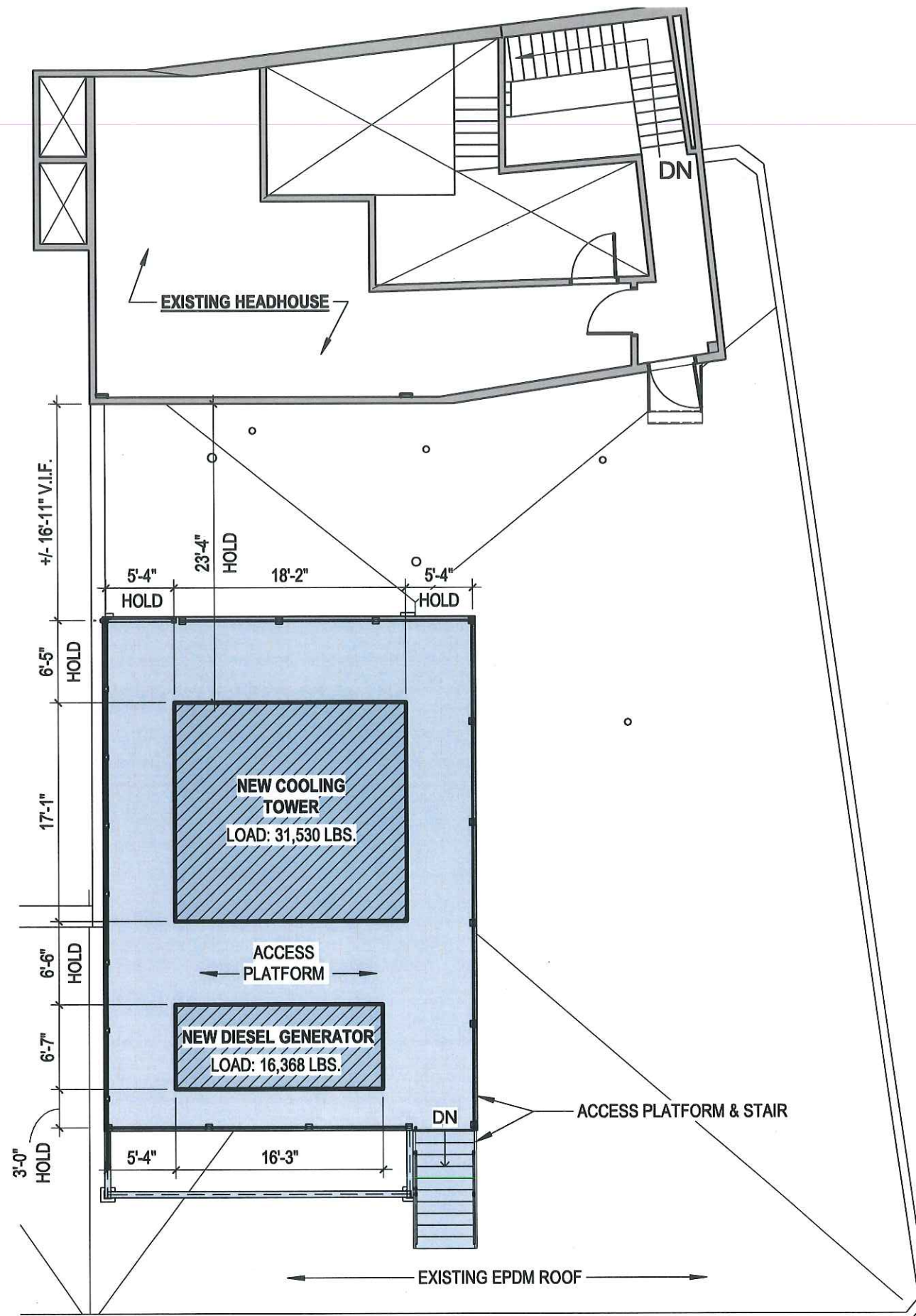
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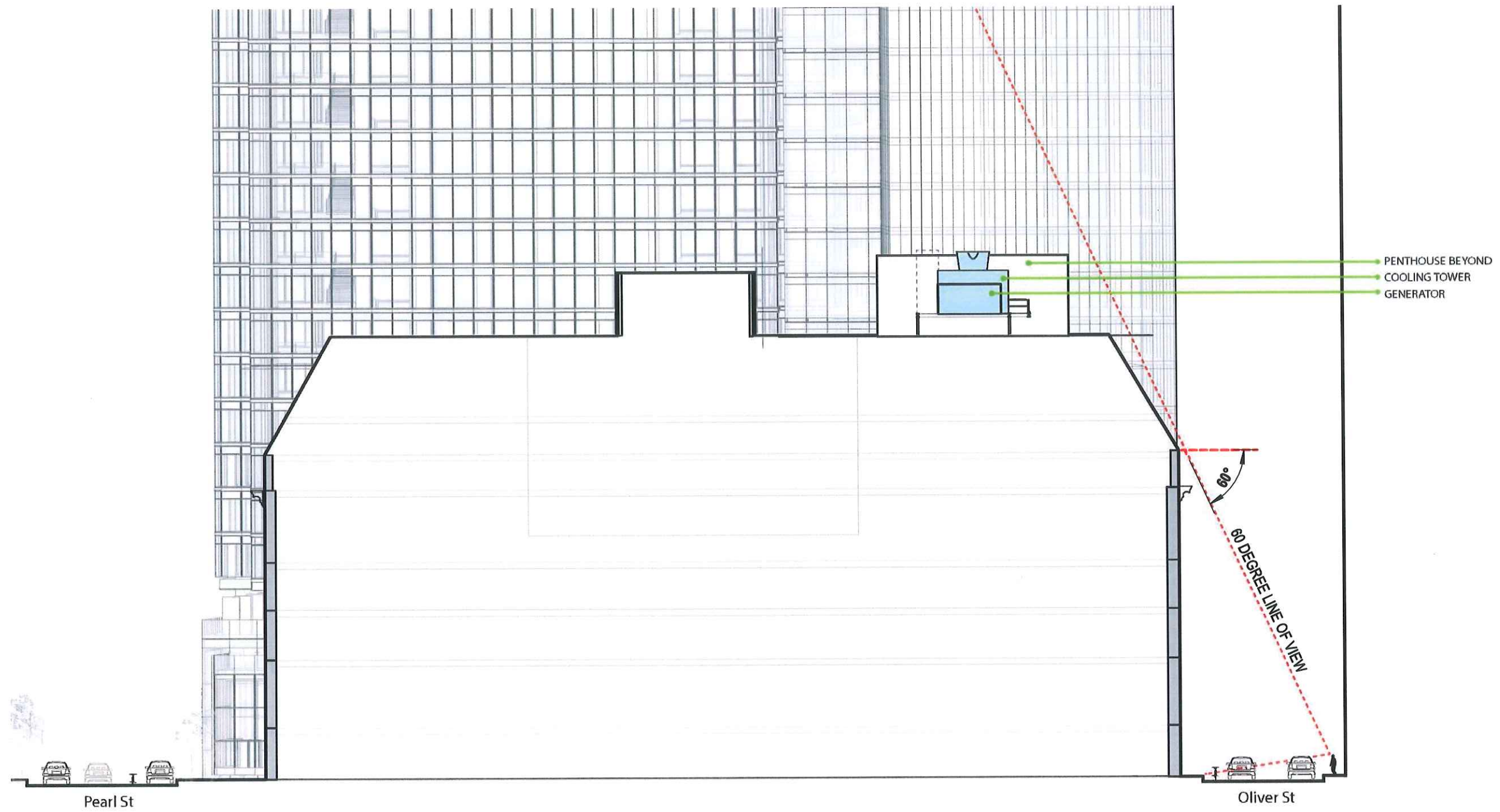
DATE 07/02/18	CLIENT THE LANGHAM BOSTON
NO. A-27	TITLE EXISTING ROOF PLAN

PROJECT
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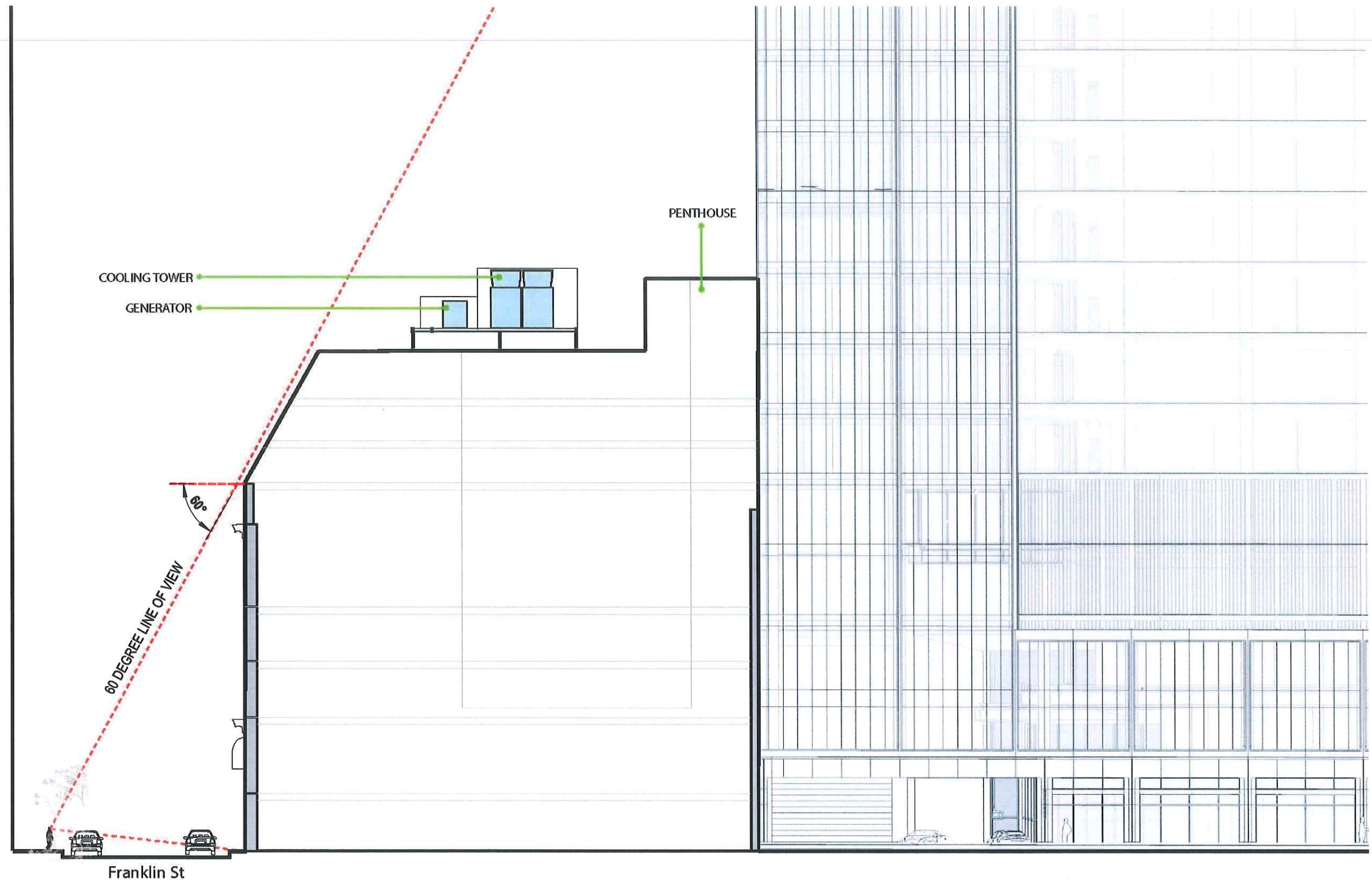


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NO. A-28	TITLE PROPOSED ROOF PLAN		



① FRANKLIN STREET BUILDING SECTION
1" = 30'-0"

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NO. A-29	TITLE BUILDING SECTION I		

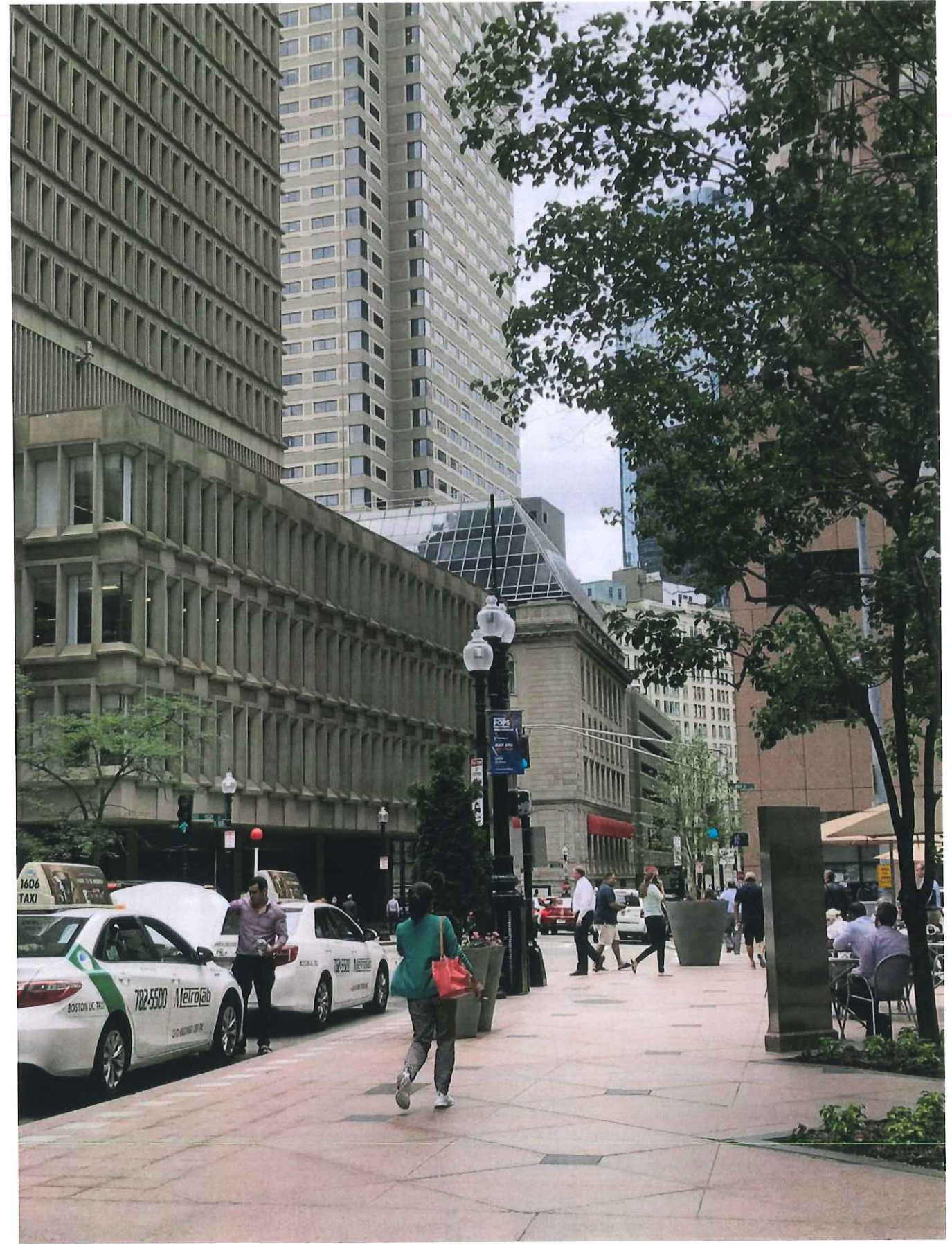


① OLIVER STREET BUILDING SECTION
1" = 30'-0"

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NO. A-30	TITLE BUILDING SECTION 2		



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EXISTING VIEW FROM OLIVER STREET

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CLIENT
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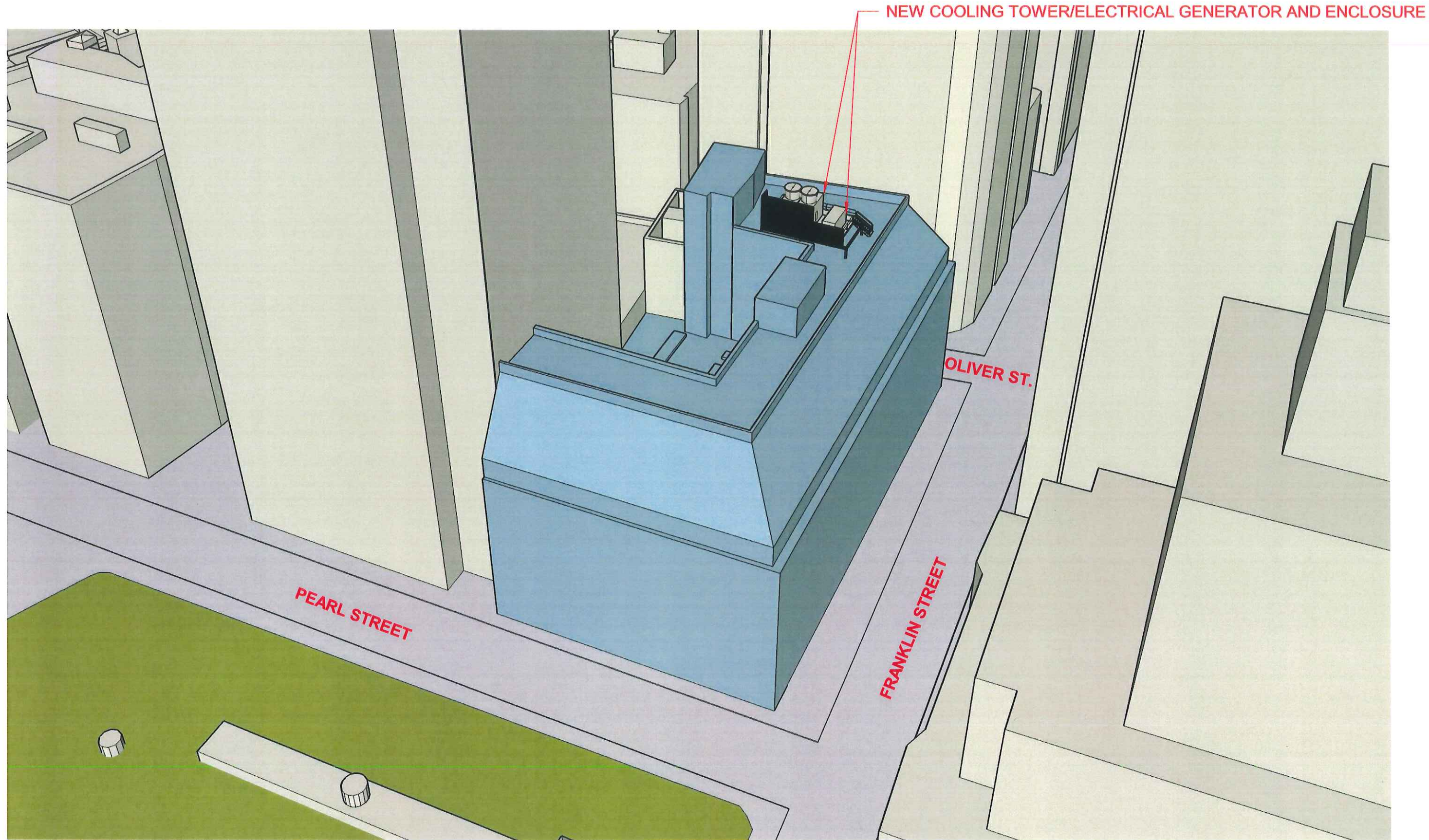
PROJECT
THE LANGHAM RENOVATION - BOSTON LANDMARK REVIEW DRAWINGS

NO.
A-32

TITLE
EXISTING AERIAL VIEW OF ROOF

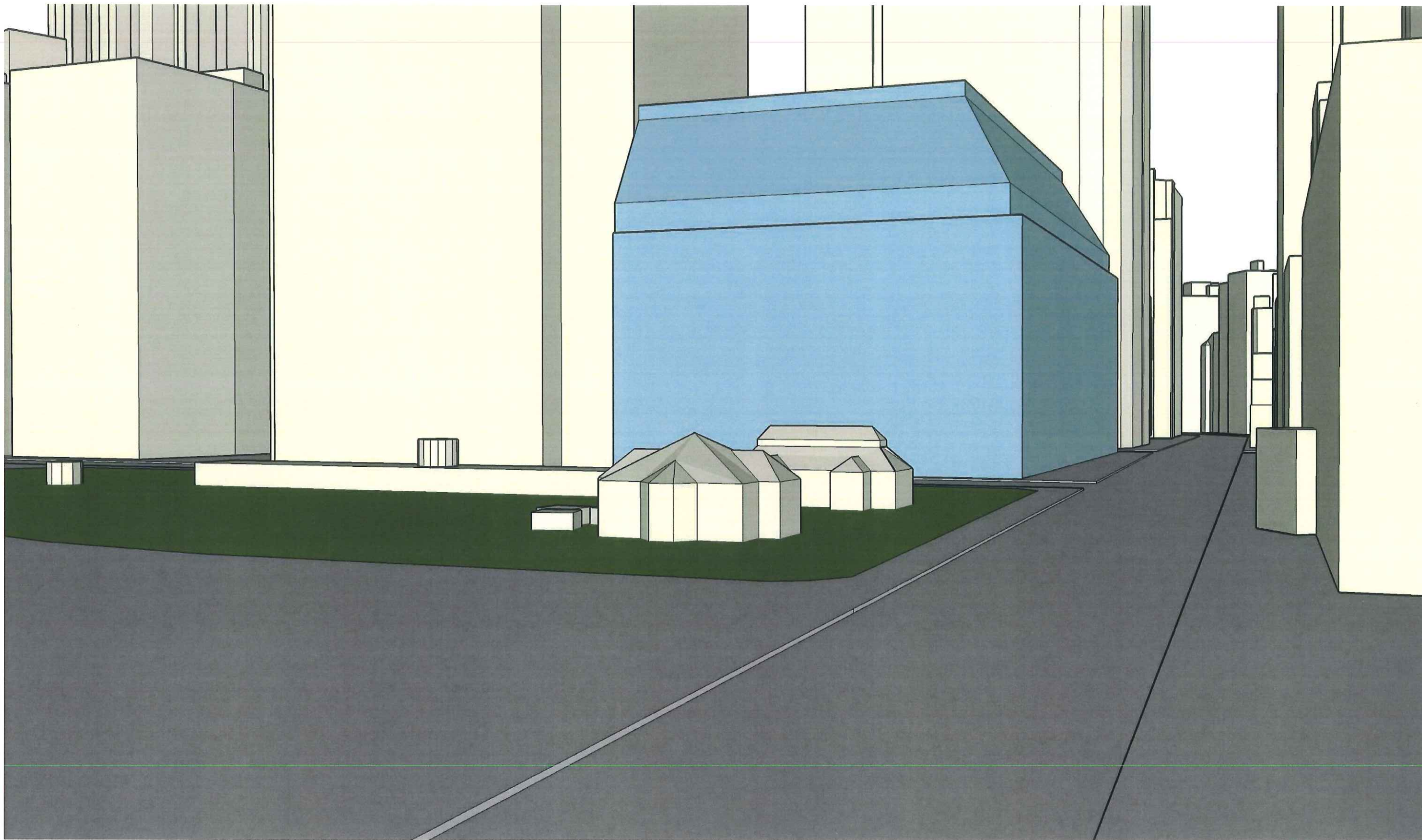
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Boston, MA 02110-1209 | 617 426 2187



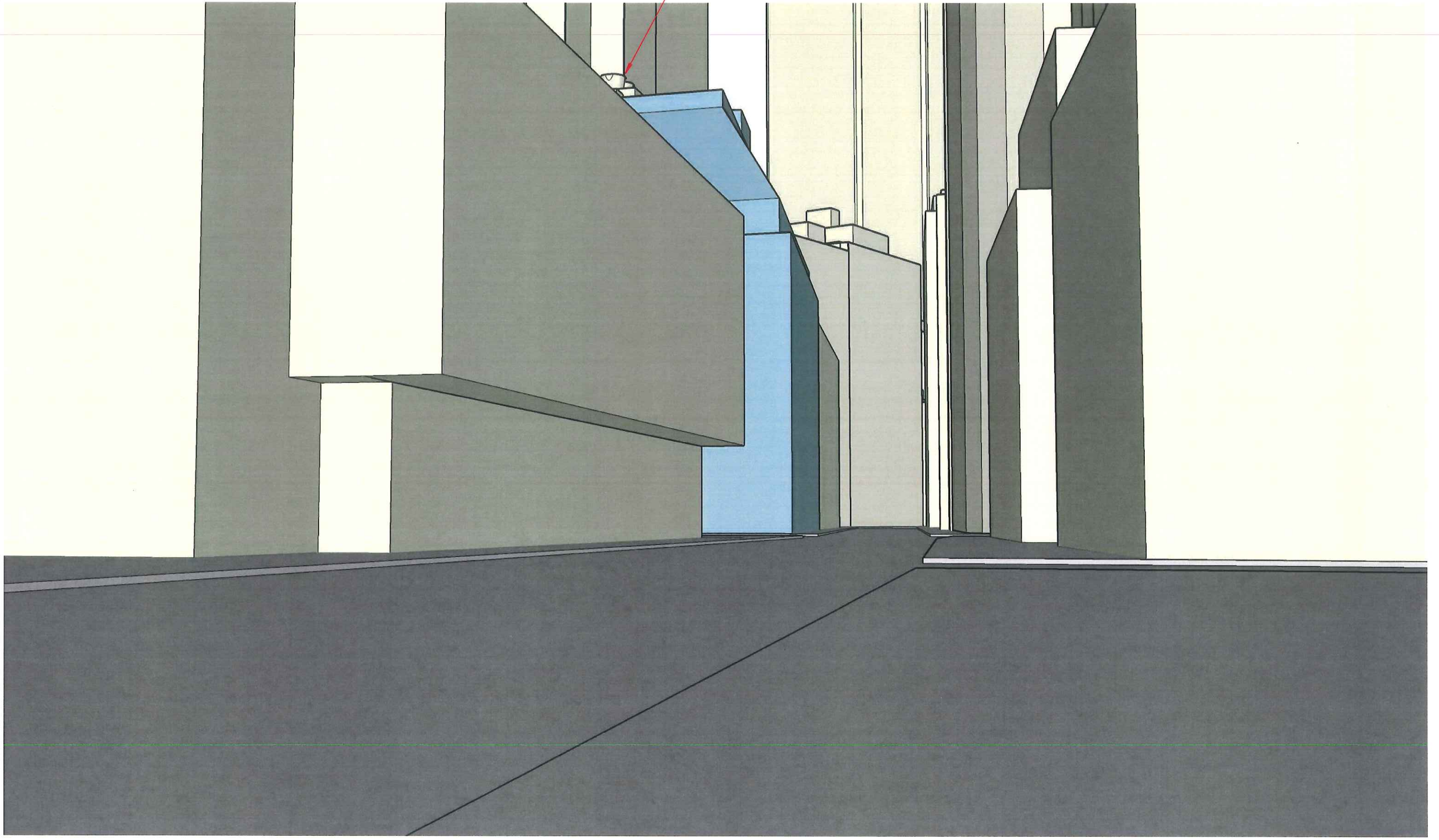
DATE 07/02/18	CLIENT THE LANGHAM BOSTON
NO. A-33	TITLE PROPOSED AERIAL VIEW OF ROOF

PROJECT
THE LANGHAM RENOVATION - BOSTON LANDMARK REVIEW DRAWINGS



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NO. A-34	TITLE PROPOSED VIEW FROM FRANKLIN ST / POST OFFICE SQUARE CORNER				

NEW COOLING TOWER/ELECTRICAL GENERATOR AND ENCLOSURE



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NO. A-35	TITLE PROPOSED VIEW FROM OLIVER STREET				