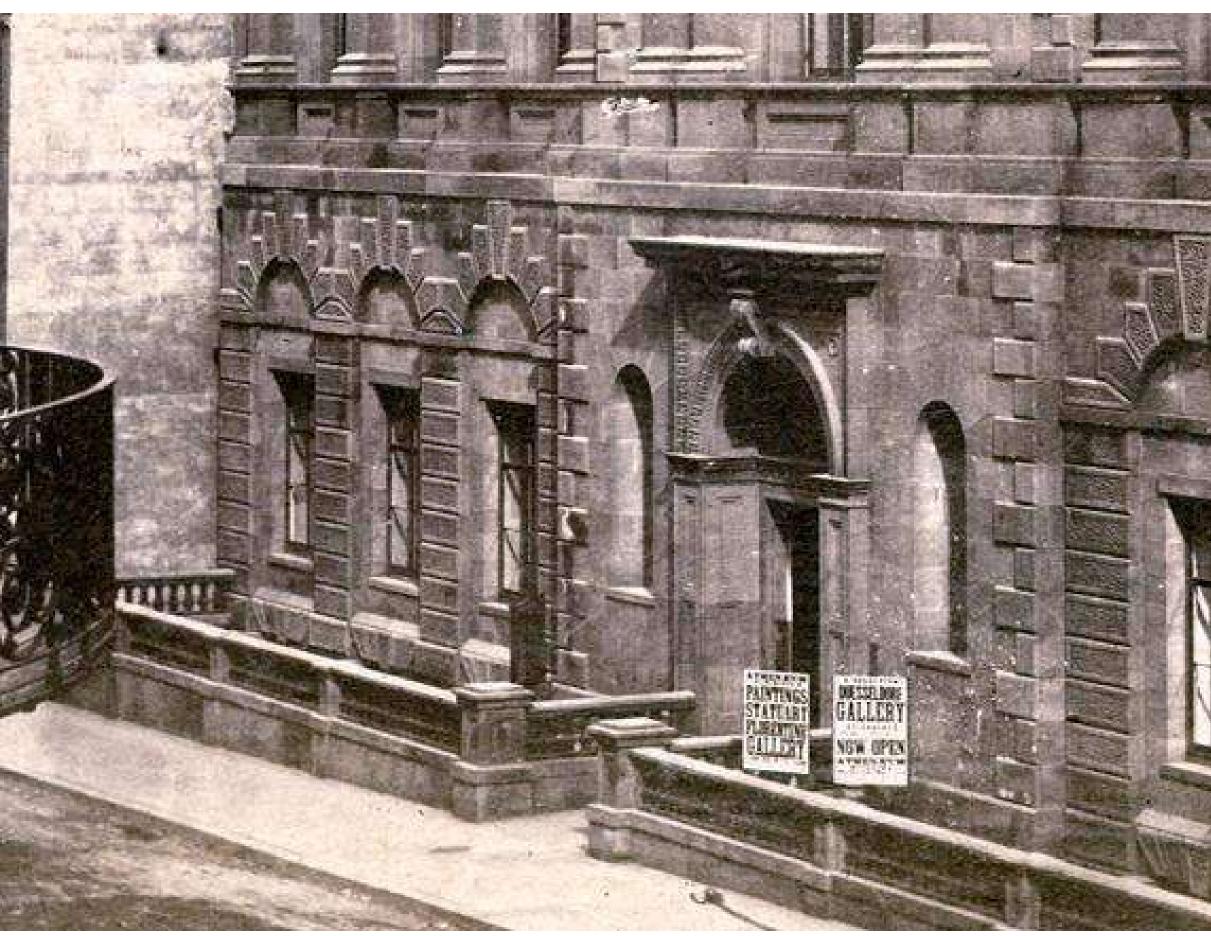
# BOSTON ATHENAEUM PROPOSED NORTH TERRACE/ENTRANCE DESIGN 3/30/2022

BOSTON ATHENÆUM

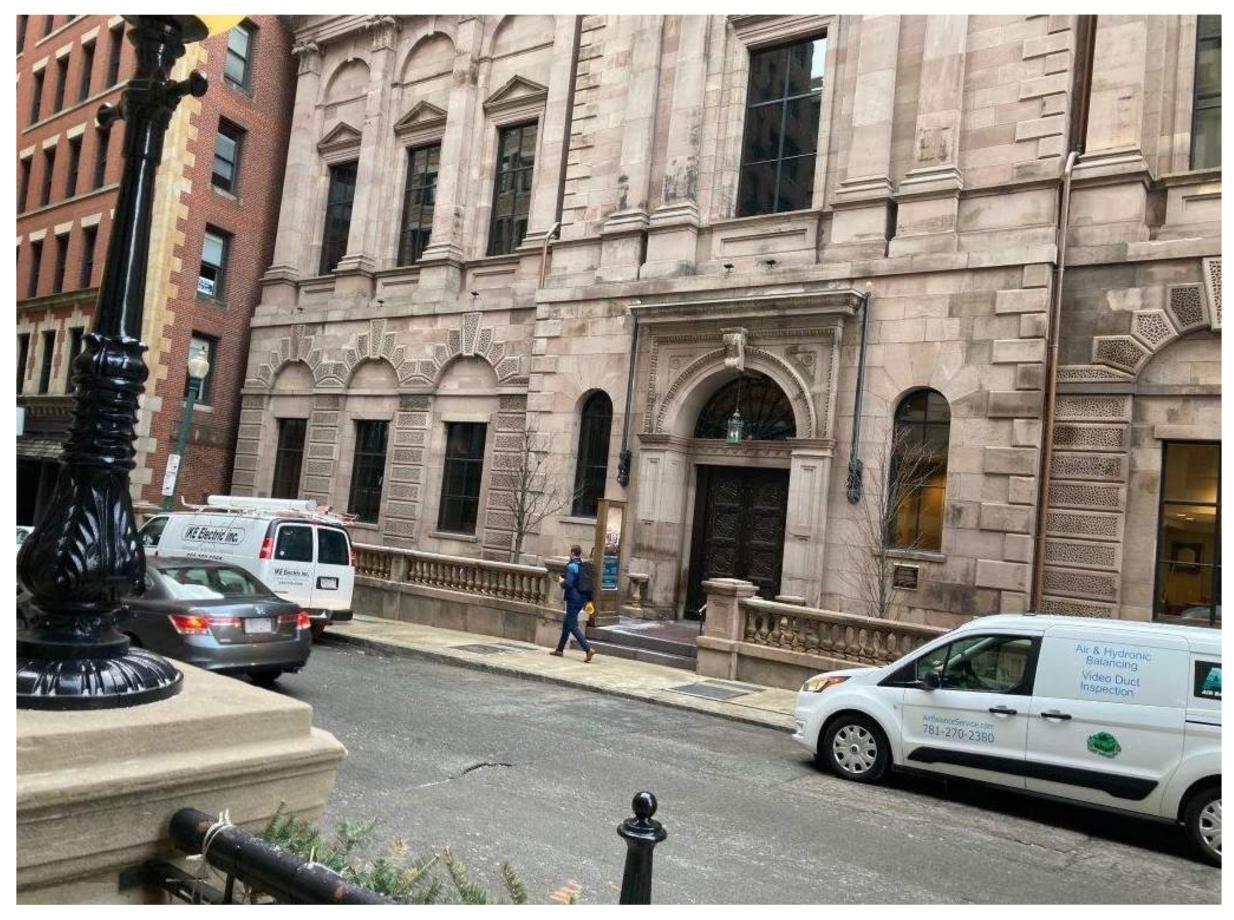




## **AnnBeha**Architects

BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022

# 1852



**AnnBeha**Architects

#### BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022

# APPROVALS BEING SOUGHT IN THIS APPLICATION:

- Increase glass at entry doors for improved visibility and safety
- Removal of side balustrade remnants
- Replacement of stone slab at entrance door
- Relocation and replacement of trees
- New bike racks
- New flagpoles for traditional drape of flags
- New marquee sign
- New wayfinding signs
- New exterior lighting of entry portico

# ATION: ility and safety

#### **EXISTING ENTRANCE DOORS**



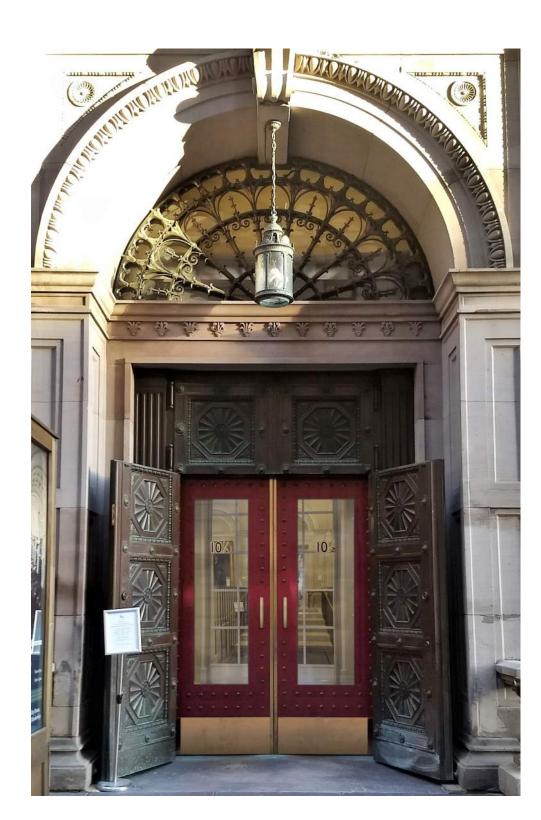
**Existing Conditions - Exterior View of Entry Doors** 

**AnnBeha**Architects



Previously Approved Design - Exterior View of Main Entry Doors

#### **REQUESTED DESIGN UPDATE**

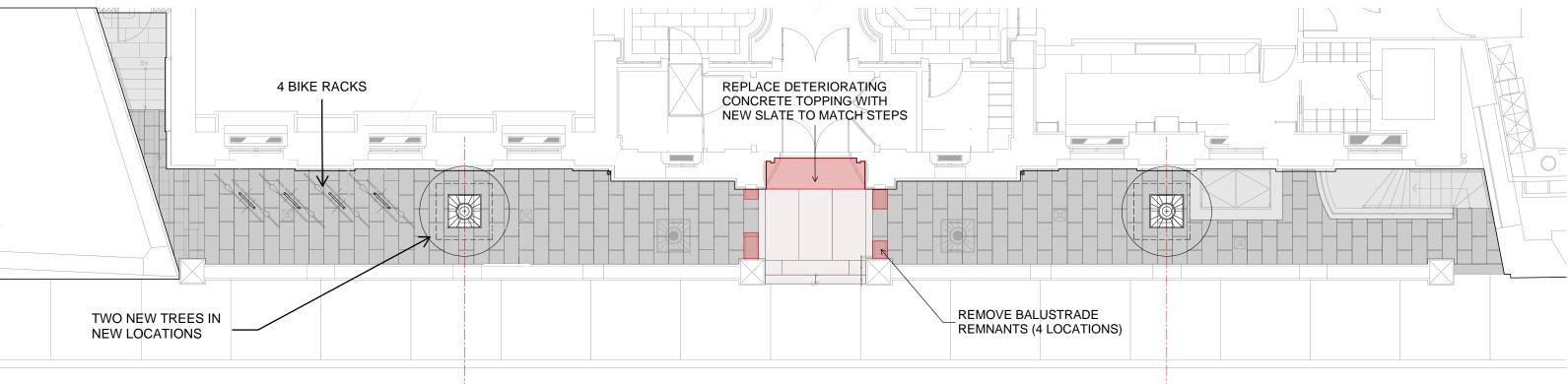


**Requested Design Update - Exterior View of Main Entry Doors** 

#### **AnnBeha**Architects

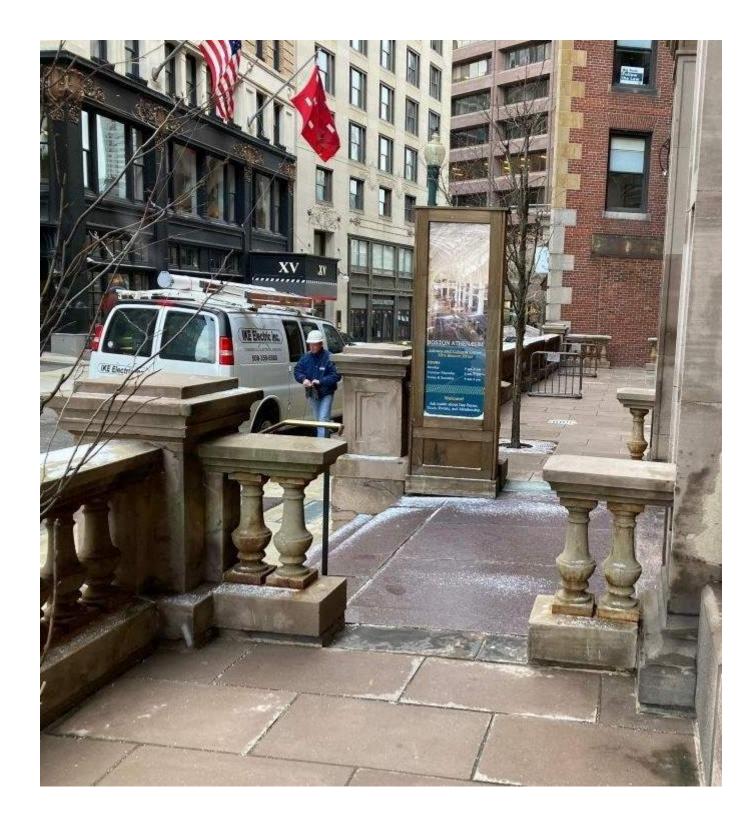
#### PROPOSED ARCHITECTURAL AND LANSCAPE MODIFICATIONS

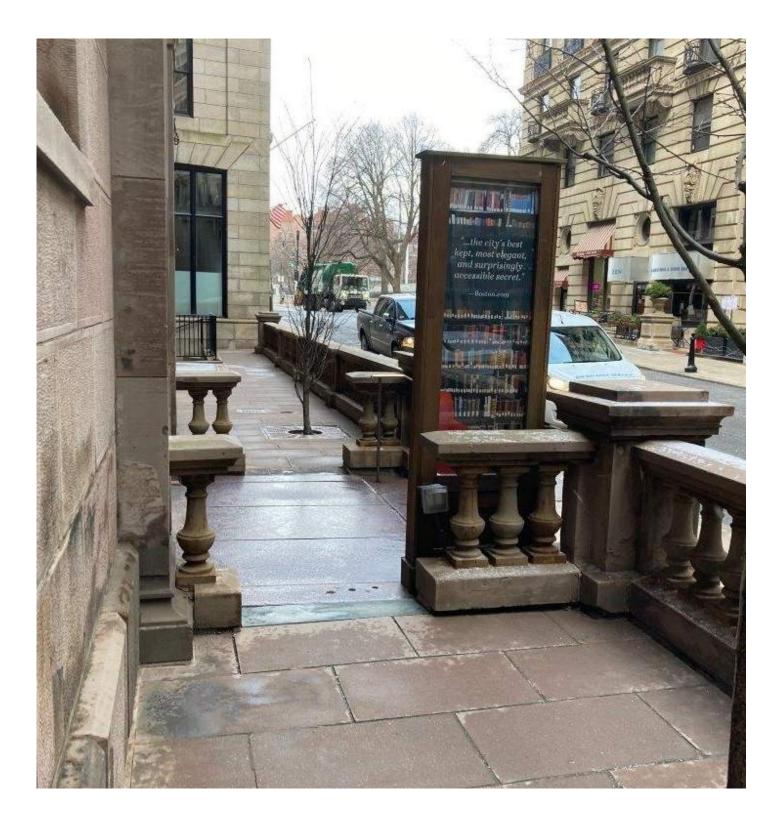




## BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022

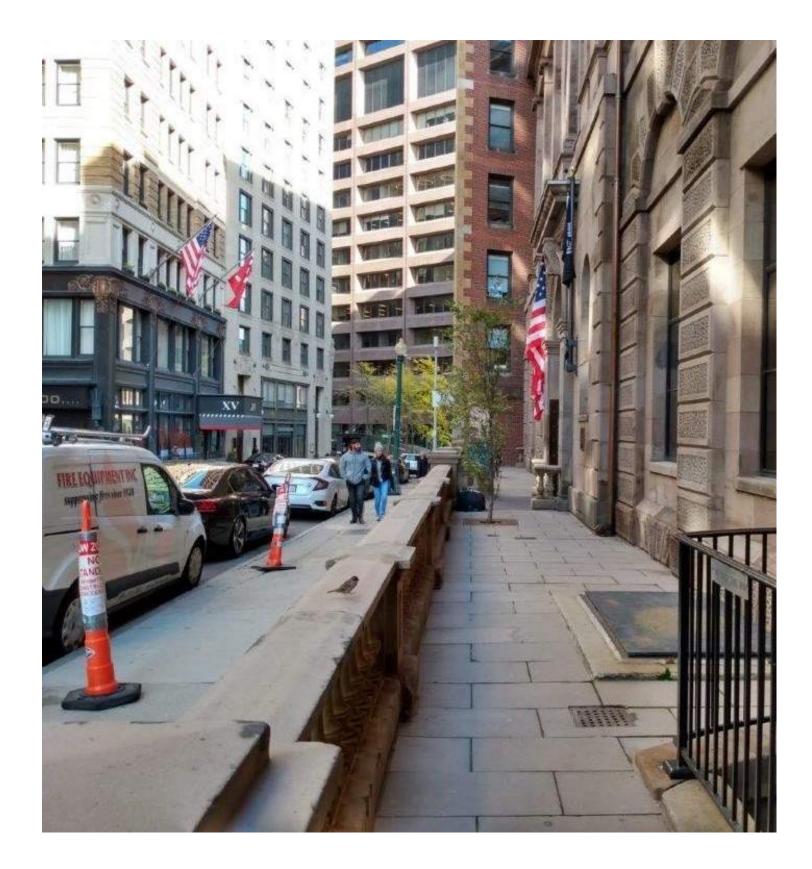
AnnBehaArchitects

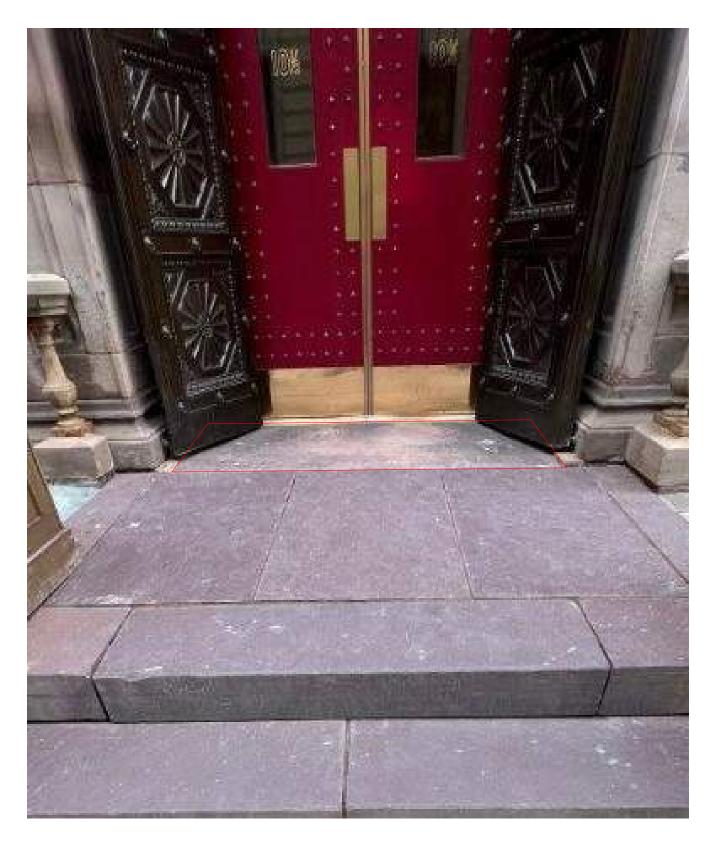




## **AnnBeha**Architects

### BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022

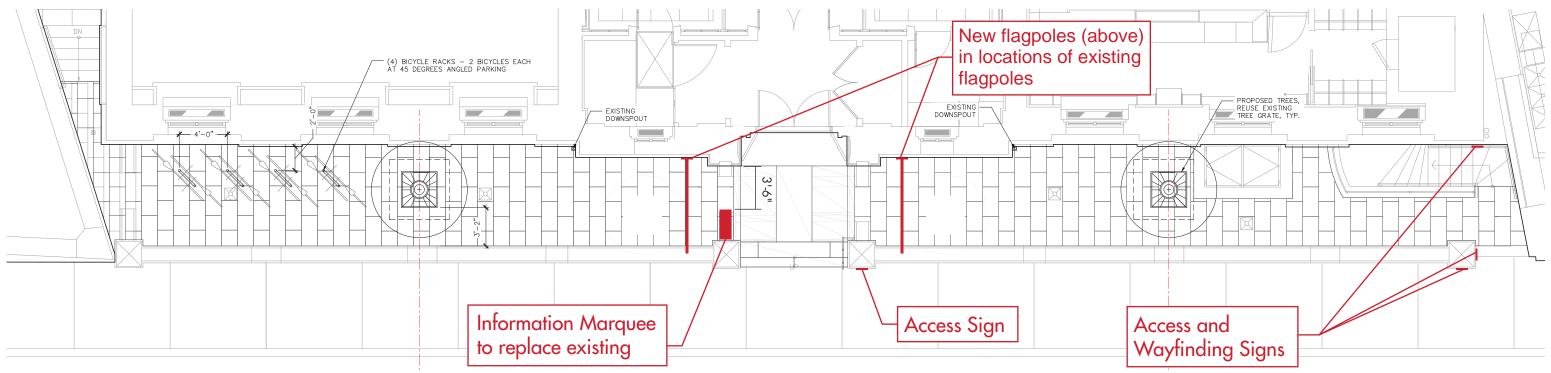




**AnnBeha**Architects

BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022

#### Signage & Graphics - Proposed Locations

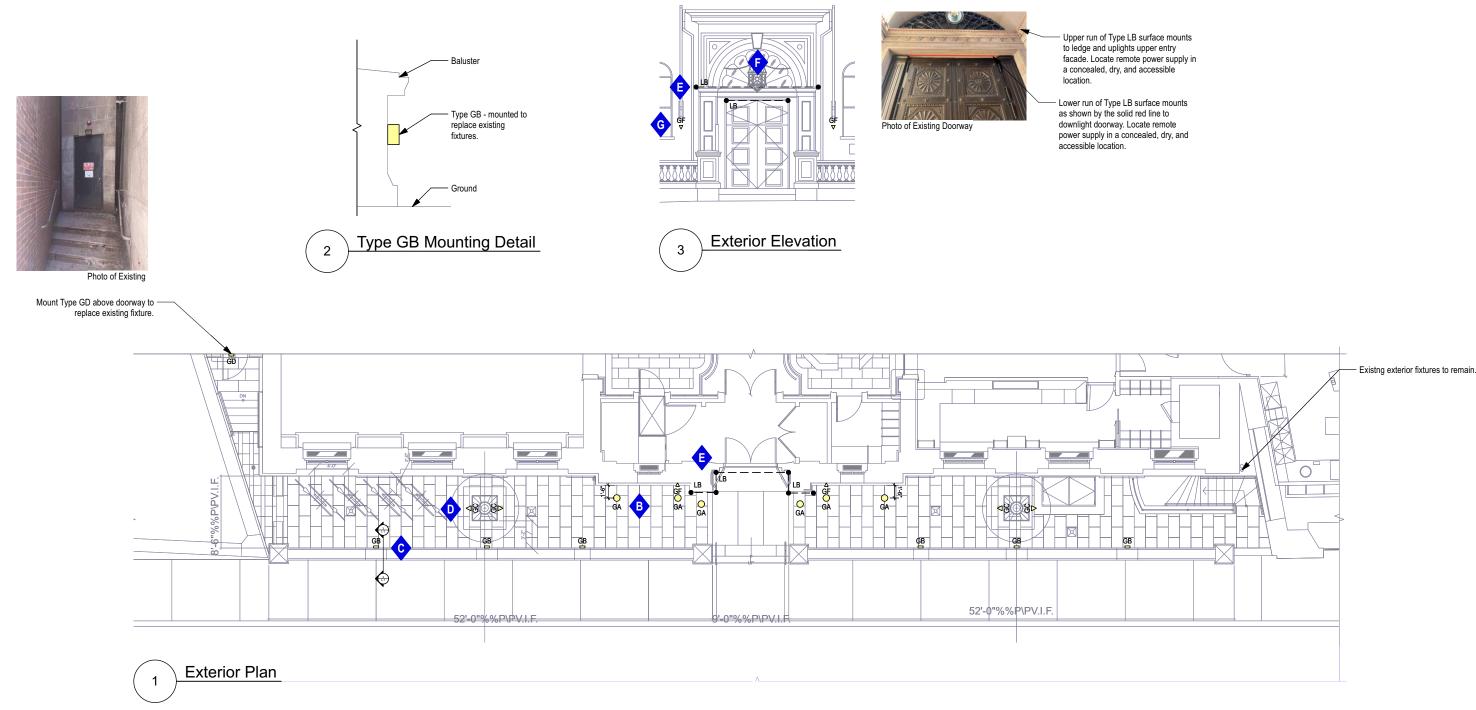


10 1/2 Beacon Street Terrace Plan Scale: 1/8" = 1'-0"



10 1/2 Beacon Street Terrace Elevation Scale: 1/8" = 1'-0"

BOSTON ATHENÆUM - Exterior Signage & Graphics



BOSTON ATHENAEUM ENTRY TERRACE 3/30/2022 AVAILABLE LIGHT









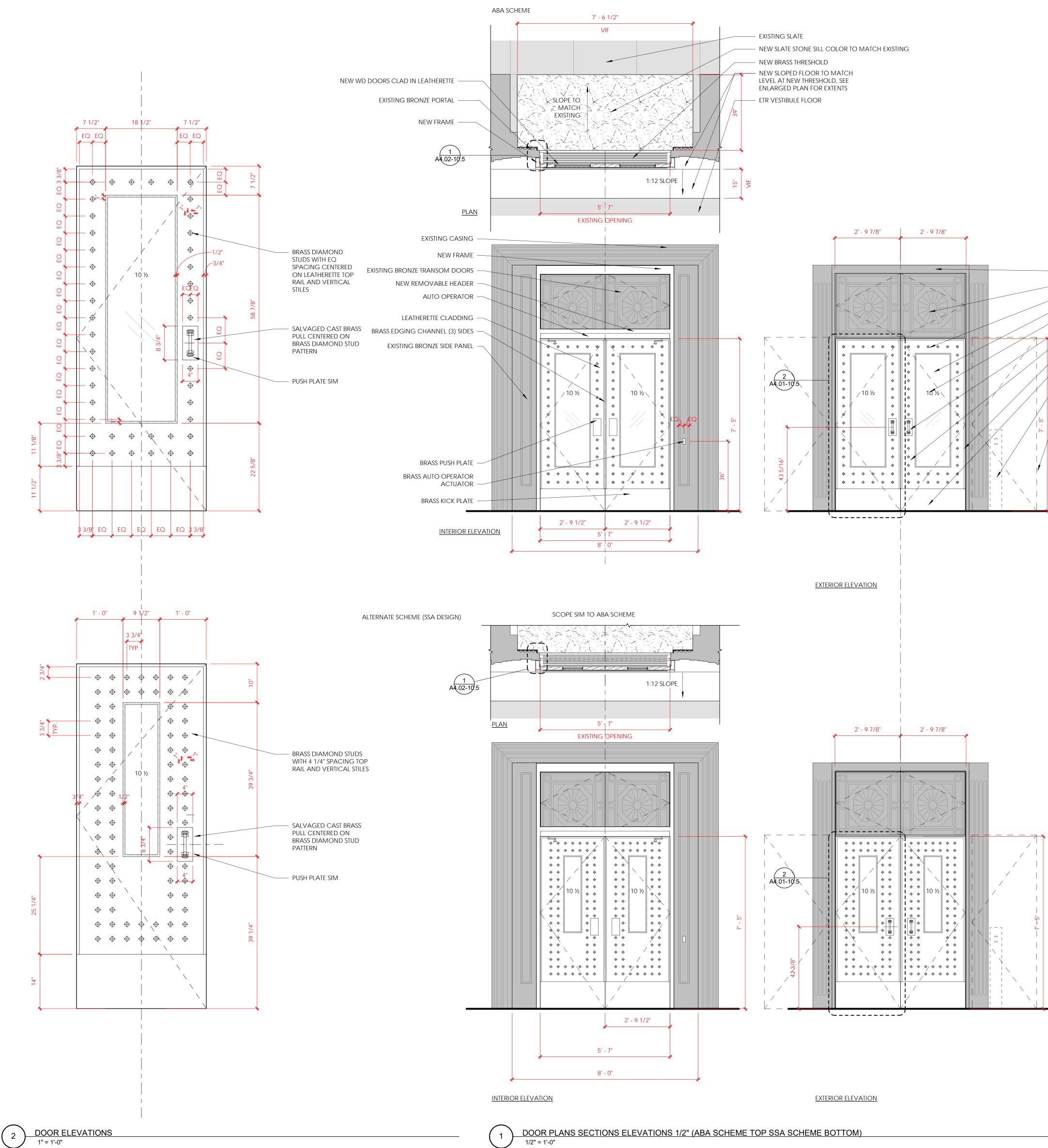






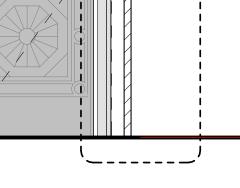


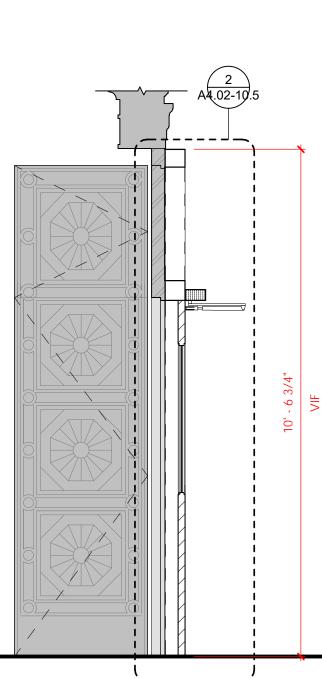
# SIGNAGE AND LIGHTING INFORMATION



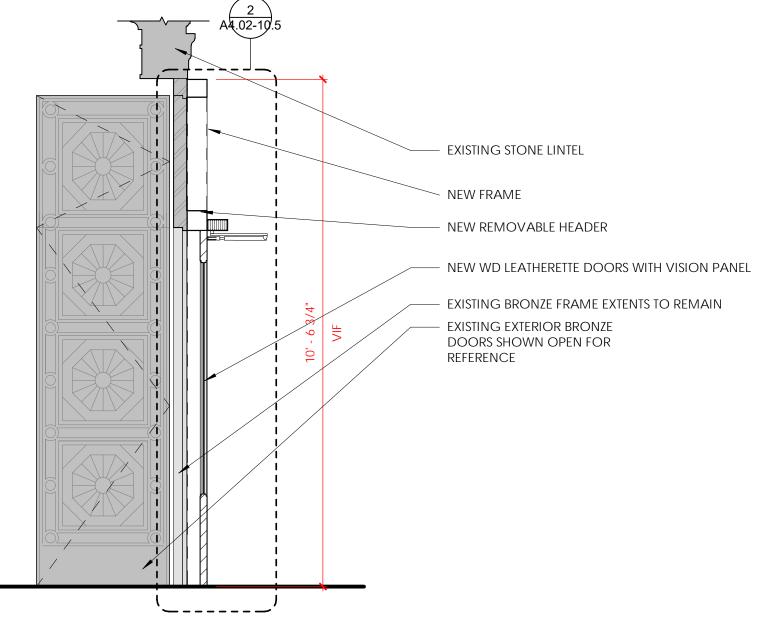








<u>SECTION</u>



- BRASS EDGING CHANNEL (3) SIDES - BRASS KICK PLATE BRONZE BOLLARD WITH PUSH PLATE ACUATOR 

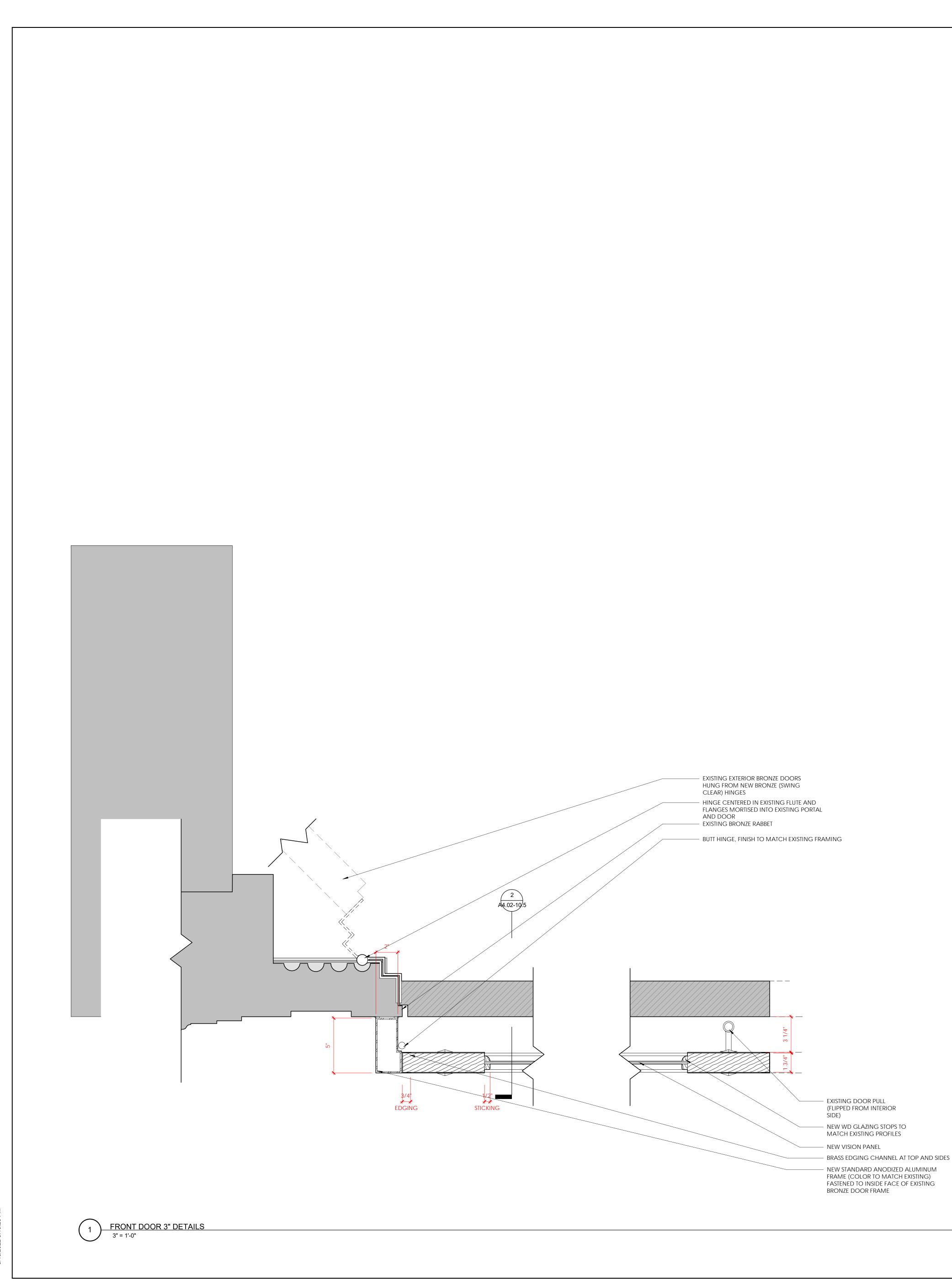
— SALVAGED CAST BRASS PULL WITH BRASS PLATE — LEATHERETTE CLADDING

- VISION PANEL 

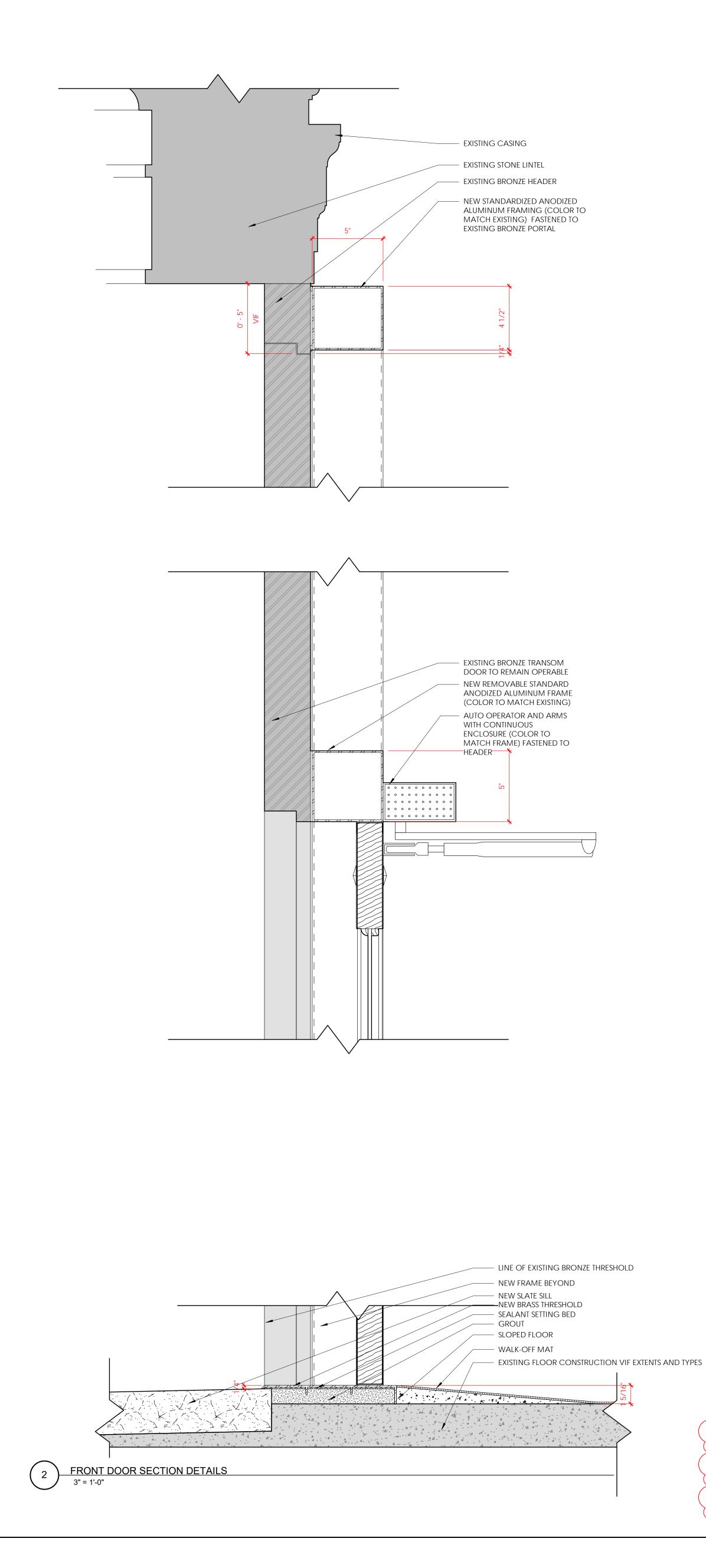
EXISTING BRONZE TRANSOM DOORS - BRASS DIAMOND STUDS

- EXISTING BRONZE PORTAL

Boston Athenaeum
RENOVATIONS AT 10 1/2 BEACON ST. BOSTON, MA 02108
KEY PLAN
LEGEND
48 BULLETIN 029 (10-1/2 DOORS) MAR 14, 2022
NO.         REVISION         DATE           CONSTRUCTION DOCUMENTS
<b>AnnBeha</b> Architects
33 Kingston Street         Boston, MA 02111           617.338.3000         617.482.6067
Job Number: 02021.01 Project: 10 1/2 BEACON STREET RENOVATION
Drawn By: Checked By: Date: JUNE 11, 2021
Drawing Title:
FRONT DOOR PLAN,
A4.01-10.5

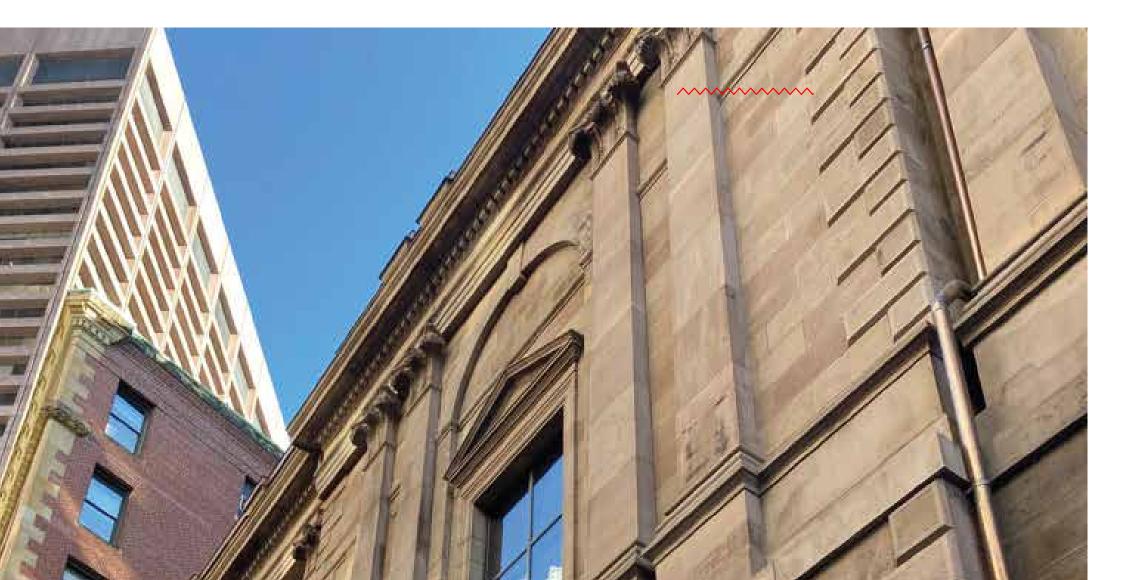


3/15/2022 5:10:23 PM

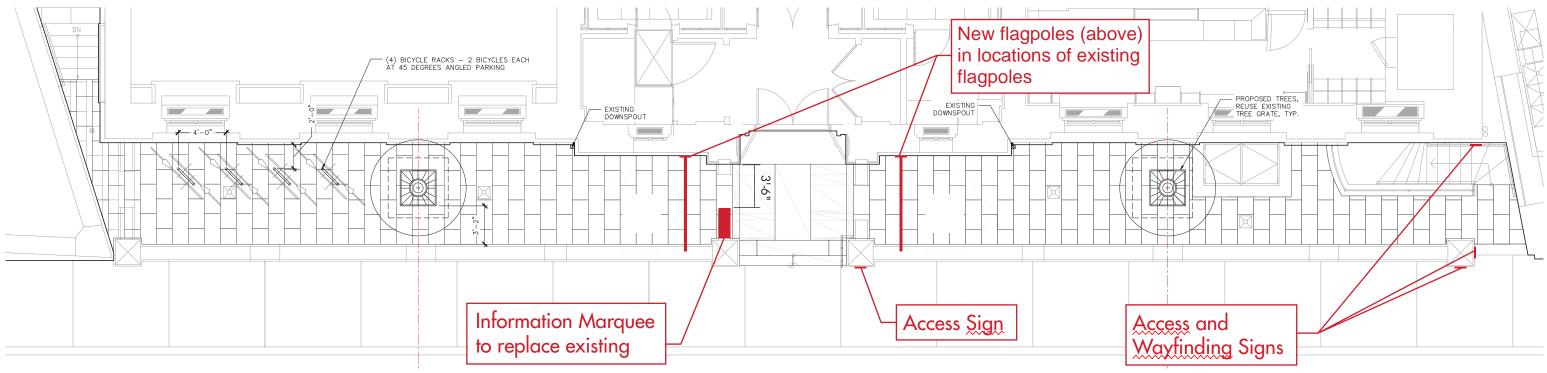


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	48 NO.	BULLETIN 029 (10-1/2 DOORS) REVISION	MAR 14, 2022 DATE
ļ	r	CONSTRUCTION DOCUM	ENTS
	Δ	nnBehaArchit	ecte
	33 K	ingston Street Boston, N	/IA 02111
	617.		482.6067
	Job Ni	umber: 02021.01	
	Projec	t: 14 BEACON STREET RE	NOVATION
	Drawn		
	Date:		
	Drawir	ng Title:	
			$\sim$
7	FRC	ONT DOOR DETAILS	48
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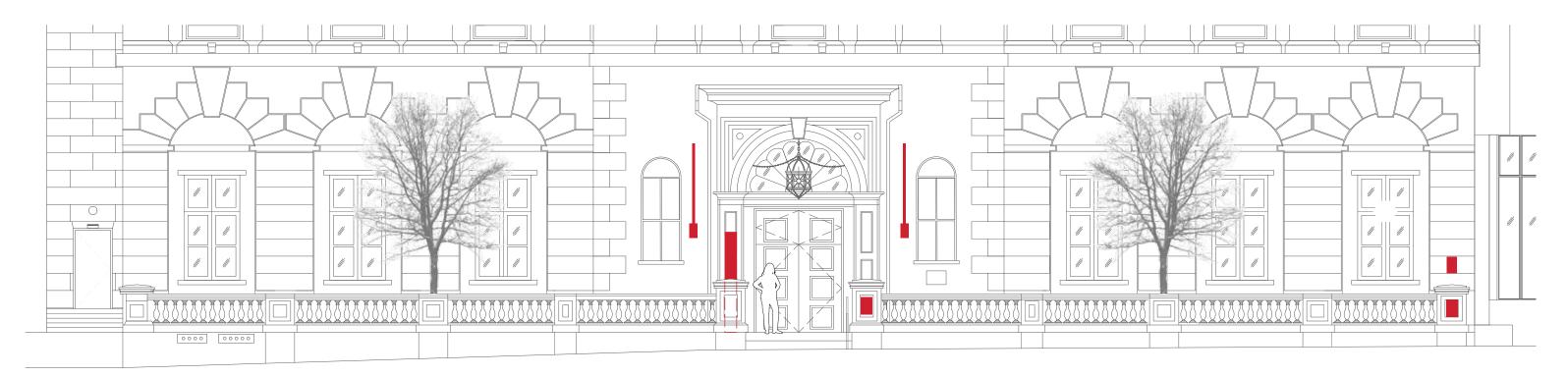
# BOSTON ATHENÆUM



#### Signage & Graphics - Proposed Locations



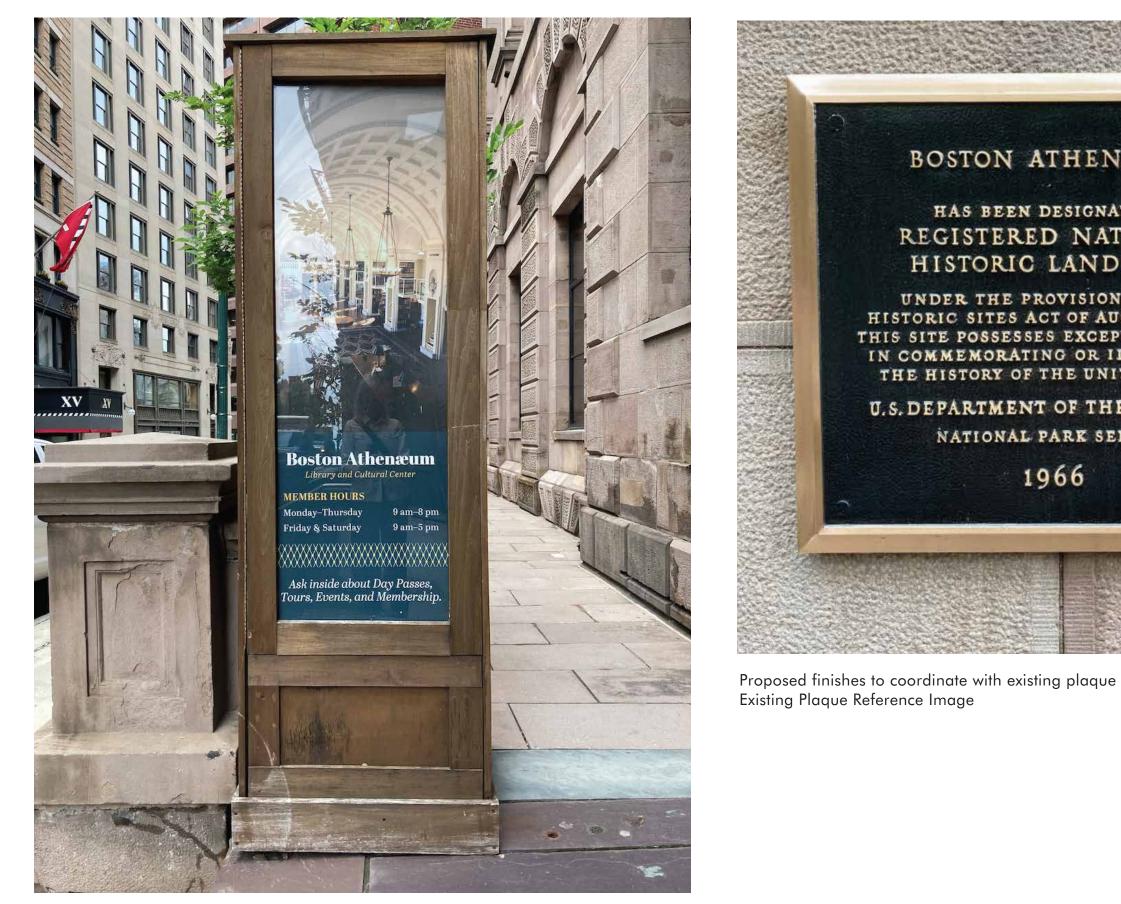
10 1/2 Beacon Street Terrace Plan Scale: 1/8'' = 1'-0''



10 1/2 Beacon Street Terrace Elevation Scale: 1/8'' = 1'-0''

BOSTON ATHENÆUM - Exterior Signage & Graphics

#### Information Marquee - Existing Condition



### BOSTON ATHENAEUM

HAS BEEN DESIGNATED A REGISTERED NATIONAL HISTORIC LANDMARK

UNDER THE PROVISIONS OF THE HISTORIC SITES ACT OF AUGUST 21, 1935 THIS SITE POSSESSES EXCEPTIONAL VALUE IN COMMEMORATING OR ILLUSTRATING THE HISTORY OF THE UNITED STATES

U.S. DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

1966

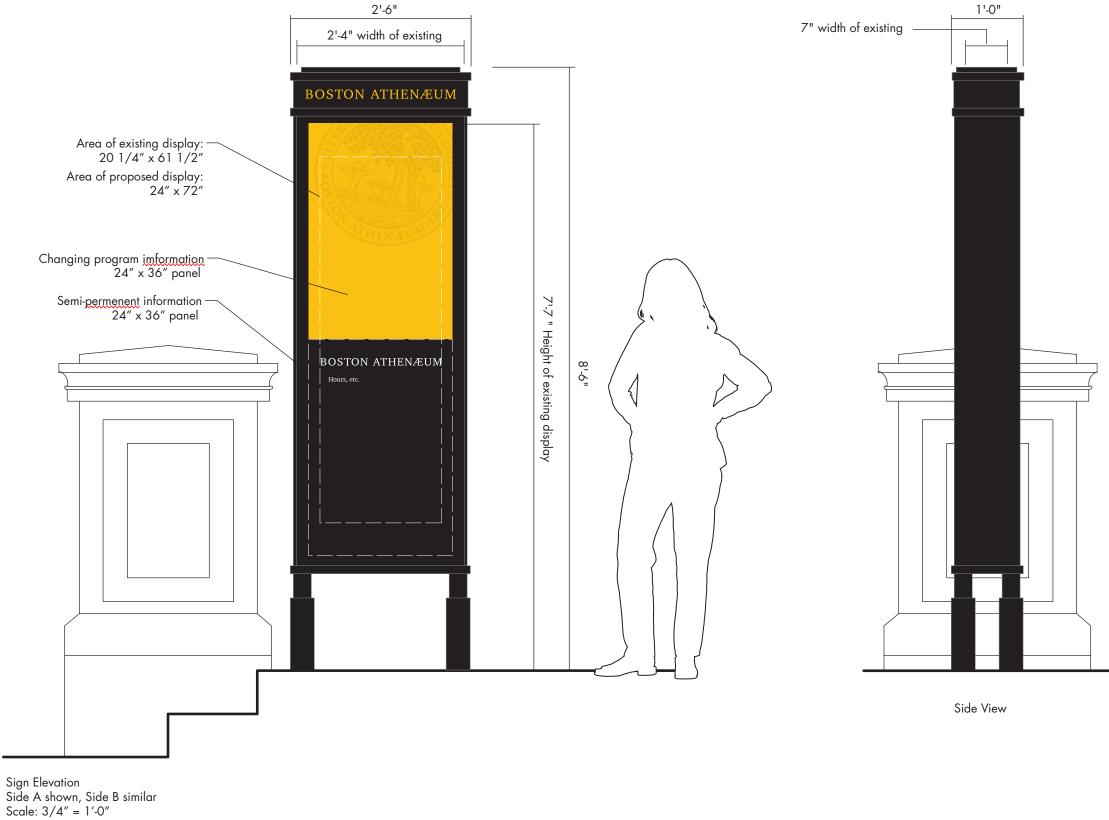
#### Information Marquee

Double sided internally illuminated fabricated aluminum sign cabinet with locking doors,

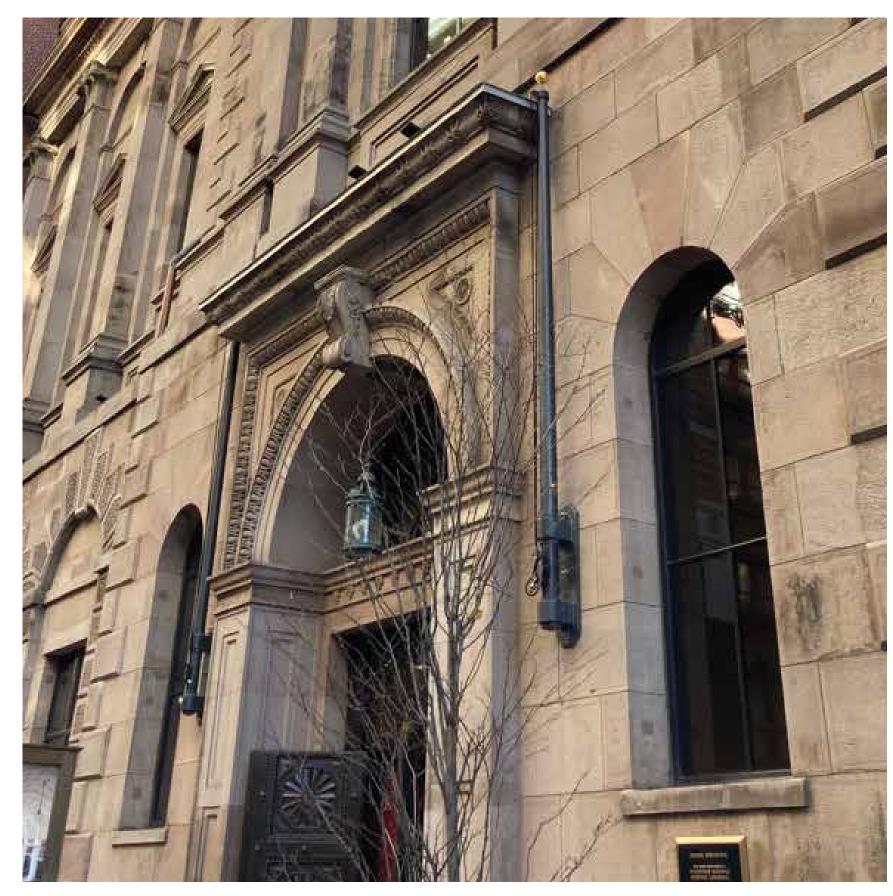
non-glare glass faces, and two part catalytic paint finish.

Cabinet to accommodate two changeable panels on each side.

Header text is masked and sprayed and does not illuminate.



### Flagpoles - Existing Conditions





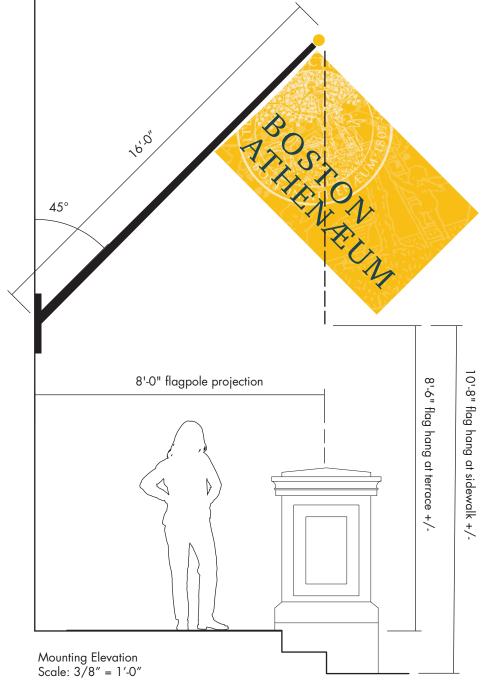
Proposed flagpole angle mounting 15 Beacon Street Reference Image

### Flagpoles

16 ft. outrigger 45° angle wall mounted aluminum flagpole with black or dark bronze finish and gold finial ball.



Custom logotype banners Scale: 3/4" = 1'-0"



### Access & Wayfinding Signs - Existing Conditions



#### Access & Wayfinding Signs

1/4" - 3/8" thick cast bronze with satin finished beveled edges and satin finished raised graphics.

Signs mount to existing masonry surfaces with studs and adhesives.



Accessibility Signs Scale: 3" = 1'-0"

Wayfinding Sign Scale: 3" = 1'-0"

1'-0" +/- VIF required

## BOSTON ATHENÆUM

After Hours Entrance Employee Entrance

Accessible Entry to 14 Beacon Street Call for Assistance: 617-227-0270

1'-6" +/- VIF required

## Boston Athenaeum Pricing Set • 24 March 2022

#### General Notes

See Architect's drawings for all mounting details and corresponding specifications. Lighting fixture manufacturer to approve mounting details prior to final order.

Contractor shall verify that all lighting equipment specified in its application on this project - complies with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment.

Do not scale electrical drawing for exact location of the lighting fixtures. In general, the exhibit reflected ceiling plans indicate the proper location of lighting fixtures.

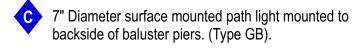
Written dimensions on drawings shall have authority over scaled measurements. Contractors and manufacturers shall verify and be responsible for all dimensions and conditions on the job and inform Available Light of all variations from drawings prior to performing the work.

For all remote location dimmers, the electrical contractor shall provide separate neutrals for each dimming circuit (i.e., no common neutrals).

A line item price for the cost to provide and install each lighting fixture type is required.

**Reference Notes** (Specific to this sheet only)

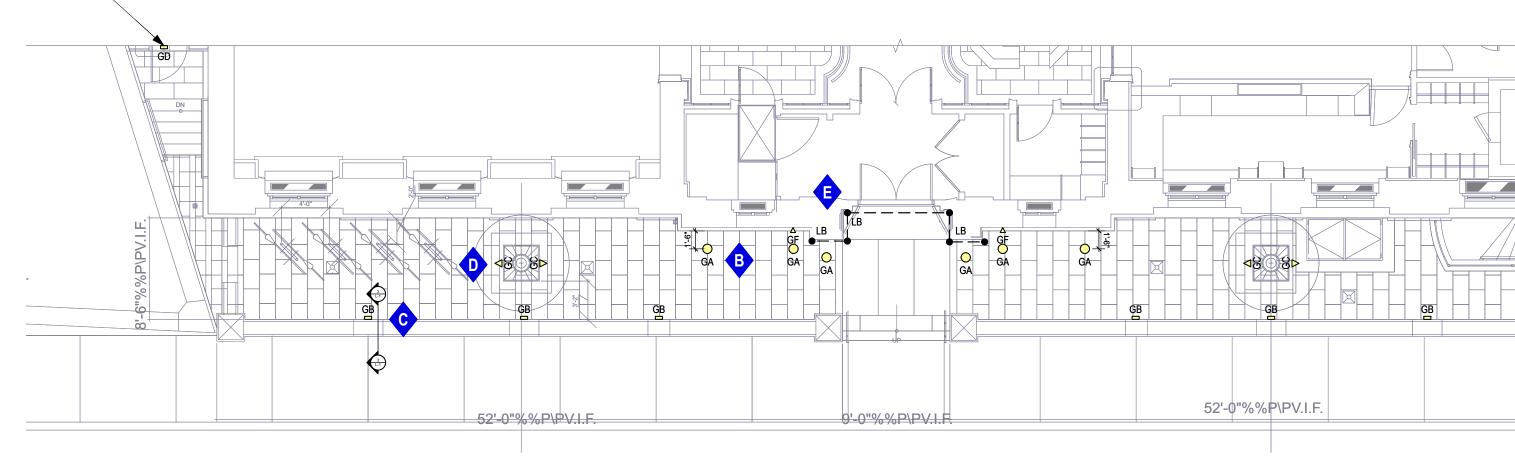
9" Diameter by 9" Deep ingrade adjustable uplight. (Type GA).



- 2-1/4" Diameter by 7" Long adjustable accent fixture to uplight trees. Fixture is stake-mounted in tree well. Remote transformer to be located in accessible location. (Type GC).
- 3/4" Wide wet rated, surface mounted linear graze fixture. (Type LB).
- Existing to remain decorative pendant. Repair stem for lamp sockets, clean glass, and repair any broken parts. (Type GE).
- **G** 2-1/4" Diameter wall mounted adjustable accent fixture. (Type GF).



Mount Type GD above doorway to —— replace existing fixture.

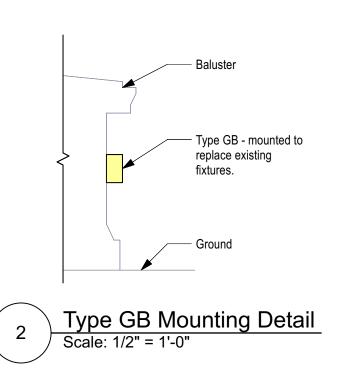


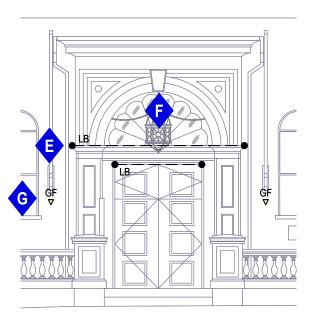
3



Lighting Control Matrix • All fixtures will be dimmable.					
Area Description Name	Lighting Control Zones Description <sup>2</sup>	<b>ON</b> <sup>1,5</sup>	ADJUST <sup>1, 3</sup>	OFF <sup>4</sup>	Sensors, Interfaces
Exterior					
North Terrace and Facade	• Provide 1 <u>dimmable</u> zone for each Fixture Type.			Fixtures not required for egress will turn off N at midnight. All other fixtures will stay on.	I/A

## **AVAILABLE LIGHT**





**Exterior Elevation** 

Scale: 1/8" = 1'-0"



- Upper run of Type LB surface mounts to ledge and uplights upper entry facade. Locate remote power supply in a concealed, dry, and accessible location.

Lower run of Type LB surface mounts as shown by the solid red line to downlight doorway. Locate remote power supply in a concealed, dry, and accessible location.

		AVAILABL	e light
		General Notes	
		General Notes These drawings and all the designs and plans im- represented thereby are ow property of Available Light, and developed for use on a the specified project. Neither this drawing, m arrangements, designs appropriated by or disclosed corporation for any use o except by the specific and Available Light. Written dimensions on authority over scaled meass and manufacturers shall ve for all dimensions and com- inform Available Light o drawings prior to performin These drawings represent suggestions only. Please ri electrical, structural and es- codes. Available Light is un- structural or electrical app NOT assume responsibility of engineering, construction, design concepts.	dicated thereon or ned by and remain the and have been created and in connection with or any such ideas, or plans shall be d to any person, firm or r purpose whatsoever, written permission of drawings shall have surements. Contractors rify and be responsible ditions on the job and f all variations from g the work. visual concepts and gidly observe all local aafety procedures and oqualified to determine propriateness and will or liability for improper
s in		This drawing show only and is <b>NOT</b> Construction, fa installa	to be used for abrication or
		$ \begin{array}{c c} \hline 5 \\ \hline 4 \\ \hline 3 \\ \hline 2 \\ \hline 1 \\ \hline Rev \# Date \end{array} $	Description
Existing exterior fixtures to remain.		Ann Beha Arch 33 Kingston Street Boston MA 02111 T 617.338.3000	nitects
		Available Ligh 31 State Street, 6t Boston MA 02109 T 978.944.6800 info@availablelig availablelight.co	h Floor ht.com
		Project Boston Athena Exterior Drawing Title Lighting Layou	
		Phase Pricing Set Date	
		24 March 202 Scale St As Shown	2 heet is full size at 24"x36" $\downarrow 1 " - \downarrow$
	N N	Avlt Job # 1077.001 Drawn by Checked by BGW BGW	Drawing L-1

# AVAILABLE LIGHT

## Boston Athenaeum Exterior Facade

## Lighting Fixture Cut Sheets

Exterior Scope

**Pricing Set** 

24 Mar 2022

AnnBeha Architects

Available Light • 617.944.6800 31 State Street, 6th Floor • Boston MA 02109

#### **Exterior Scope**

#### **Directional luminaire**

Housing: polymer, black. Control gear 120V/277V, 60Hz,

Screw-fastened cover ring with flush safety class: stainless steel. Safety class: 9/16" / 15mm, clear. Installation with separate connection

sleeve. Mounting in recessed housing: can be

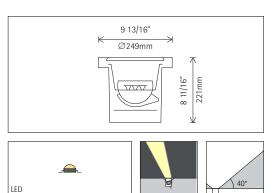
Mounting in resisto noisen: fail be diven over in vehicles with oneumatic press Load 11240lb.wt / 50kN. Dimming with vesternal dimmers possi-ble (0-10V). Suitable for wet location (IP68): dust-

proof. Weight 11.31lbs / 5.13kg Version with 3000K CRI 97 or 2700K, 3500K, 4000K CRI 92 available on

 $\sim$ 

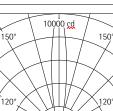


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1071 0'9"

3

Technical data Luminous flux of the luminaire Connected load 967lm 14.0W 691m/W 1.5 SDCM Luminaire efficacy Color deviation CRI 92 L90/B10 ≤50000h Color rendition index Lumen maintenance (LED manufacturer specifications) LED failure rate L90 ≤100000h 0.1% ≤50000h LMF Temperature on the cover glass 90°F/32°C

request.

For your regional contact in the ERCO

LED module: 12W 1260lm 3000K warm

white

0-10V dimmable Version 9 Size 5

Flush mounting detail Spherolit lens, spot

Technical region: 120V/60Hz, 277V/ 60Hz We reserve the right to make technical and design changes. Edition: 18.02.2022 Current version under www.erco.com/35142.023

1/3

AnnBeha Archite

**Boston Athenaeu** 

**Pricing Set** 

| Exterior Faca        | de |     |
|----------------------|----|-----|
| ects                 |    | Тур |
|                      |    |     |
| © ERCO GmbH 2022     |    |     |
| www.erco.com/contact |    |     |

| Туре             |    |
|------------------|----|
|                  | GA |
| Cut sheet 1 of 5 |    |
| Scope: Exterior  |    |

### Exterior Scope

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#### Planning data

~

| Cleaning (a)<br>Ambient conditions<br>LMF<br>RSMF   | 1<br>P<br>0.96<br>0.91 | C<br>0.94<br>0.83 | N<br>0.90<br>0.68  | D<br>0.86<br>0.51  | 2<br>P<br>0.93<br>0.90 | C<br>0.91<br>0.81  | N<br>0.86<br>0.67  | D<br>0.81<br>0.50 | 3<br>P<br>0.92<br>0.90 | C<br>0.90<br>0.81 | N<br>0.84<br>0.67 | D<br>0.79<br>0.50 |
|---|------------------------|-------------------|--------------------|--------------------|------------------------|--------------------|--------------------|-------------------|------------------------|-------------------|-------------------|-------------------|
| <u>Hours of operation</u> (h)<br>LLMF<br>LSF  | 1000<br>1.00<br>1      | 5000<br>0.99<br>1 | 10000<br>0.98<br>1 | 20000<br>0.96<br>1 | 30000<br>0.94<br>1     | 40000<br>0.92<br>1 | 50000<br>0.90<br>1 |                   |                        |                   |                   |                   |
| ME IMERSMERIIMERISE<br>ME Maintenance factor<br>ME Iminaire Maintenance Factor<br>RSME Room Surface Maintenance factor<br>IME Lamp Lumens Maintenance factor<br>ISE Lamp Survival factor<br>P Room Dure<br>C Room Jure<br>C Room Jure<br>D Room Jury      |                        |                   |                    |                    |                        |                    |                    |                   |                        |                   |                   |                   |
| Technical data based on international standards and directives         IEC 60598       Luminaires – Parts 1 + 2: General requirements, particular requirements and tests         IEC 60031       IED modules for general lighting – Safety specifications |                        |                   |                    |                    |                        |                    |                    |                   |                        |                   |                   |                   |

| 120 00000    | East and a set of the |
|--------------|---|
|              | particular requirements and tests   |
| IEC 62031    | LED modules for general lighting - Safety specifications  |
| IEC 62471    | Photobiological safety of lamps and lamp systems  |
| UL 1598      | Luminaires  |
| UL 1574      | Standard for Track Lighting Systems   |
| UL 8750      | Standard for Light Emitting Diode (LED) Equipment   |
|              | for Use in Lighting Products  |
| IES LM-79-08 | Electrical and Photometric Measurements of  |
|              | Solid-State Lighting Products   |
| IES LM-80-08 | Measuring Lumen Maintenance of LED Light Sources  |
| CIE 13       | Method of measuring and specifying color rendering  |
|              | properties of light sources   |
|              |   |

All technical data are subject to industry standard tolerances. See also www.erco.com/erco-led

|                                  | Tesis In-around luminaire 2/3<br>35142.023 |
|----------------------------------|--|
| AnnBeha Architects               | Туре                                       |
| Boston Athenaeum Exterior Facade | GA   |
| Pricing Set                      | Cut sheet 2 of 5                           |
|                                  | Scope: Exterior                            |

### **Exterior Scope**

#### 

#### Accessories

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33958.023 Connection sleeve for cable diameters of 0.25" - 0.80". Polymer conduit, two-part PUR cast resin.

 $\sim$ ~

resin. Length 5 15/16" / 150mm. Width 1 1/4" / 32mm. Height 2 3/8" / 59mm. Weight 0.99lbs / 0.45kg



10 7/16" <del>K →</del> Ø265mm

T Т  $\square \square$ 13 3/4" ≪<u></u>Ø350mm

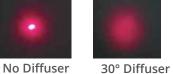
11 7/16" K 291mm

33964.000 Recessed housing Polymer, black. 4 cable entries. Load 11240lb.wt / 50kN.

|                                  | <u>Iesis In-around luminaire</u><br>35142.023 | 3/3              |
|----------------------------------|-----------------------------------------------|------------------|
| AnnBeha Architects               |                                               | Туре             |
| Boston Athenaeum Exterior Facade |                                               | GA               |
| Pricing Set                      |                                               | Cut sheet 3 of 5 |
| ricing Set                       |                                               | Scope: Exterior  |



Luminit Light Shaping Diffusers homogenize and directionally shape light with high transmission efficiency and excellent. hiding power. Available in seamless rolls on polycarbonate, polyester or acrylic substrates, including UV-stable or UL, approved substrates, we offer diffusers with elliptic and circular outputs in a variety of substrates, sizes and angles from small. to extreme. We can custom cut to your specifications, and offer low-cost Injection Molded (IM) lenses that can be designed in a variety of shapes and sizes in symmetrical and asymmetrical beam angles for any LED module design.









Large Volume Seamless Rolls

| Circular Angle (FWHM) | Elliptical Angle<br>(FWHM) | Substrate<br>& Thickness | Sizes          | Options         |
|-----------------------|----------------------------|--------------------------|----------------|-----------------|
| 80°                   | <u>80° × 50°</u>           | Polycarbonate            | Roll Width     | Protective film |
| 60°                   | <u>60° x 30°</u>           | P1 - 0.010"              | 24" Wide       | Partial rolls   |
| 30°                   | <u>60° × 10°</u>           |                          | Standard       | available with  |
| 20°                   | <u>60°.×.1°</u>            |                          | length = 500ft | 50ft minimum.   |
| 10°                   | <u>50° × 3°</u>            |                          |                | length          |
| 5°                    | <u>40°×10°</u>             |                          |                |                 |
| 3.5°                  | <u>30° × 3°</u>            |                          |                |                 |
| 2°                    | <u>30° × 1°</u>            |                          |                |                 |
| 1°                    | <u>15° × 1°</u>            |                          |                |                 |
|                       | <u>1° × 60°</u>            |                          |                |                 |
|                       | <u>1°×40°</u>              |                          |                |                 |

For more information, contact sales@luminitco.com 1850 W. 205th St. Torrance, CA 90501 | 310 320-1066

Cut sheet 4 of 5

Scope: Exterior

GA

Туре

### AnnBeha Architects

**Boston Athenaeum Exterior Facade** 

### **Pricing Set**

| Available Light • 617.944.6800               |  |
|----------------------------------------------|--|
| 31 State Street, 6th Floor · Boston MA 02109 |  |

| LIGHT SHAL                                                                      | PING SOLUTIONS                  | LSD                                                                                                                                             | Sheets and Pan                                                                                                                          | els                      |                                                                               |                                   |
|---------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------|-----------------------------------|
| Circular Angle (FV                                                              | VHM) Ell                        | iptical Angle (FW                                                                                                                               | HM) Substrate &                                                                                                                         | Thickness                | Sizes                                                                         | Options                           |
| 100°<br>80°<br>40°<br>30°<br>20°<br>10°<br>7.5°<br>5°<br>3.5°<br>2°<br>1°<br>1° |                                 | 200°× 600°<br>250°× 250°<br>250°× 450°<br>600°× 450°<br>600°× 10°<br>600°× 10°<br>600°× 10°<br>400°× 10°<br>300°× 50°<br>300°× 10°<br>10°× 400° | Polycarbona<br>P1 – 0.010"<br>P3 – 0.030"<br>P6 – 0.060"<br>P8 – 0.118"<br>Polyester, acr<br>UVT acrylic<br>substrates als<br>available | ylicu                    | 12".×.12".<br>Custom angles.<br>and larger sizes.<br>available.on.<br>request | With PSA and<br>Protective Film   |
|                                                                                 |                                 | Injec                                                                                                                                           | tion Molded Par                                                                                                                         | ts                       |                                                                               |                                   |
| Angles & Trans                                                                  | mission                         | Material                                                                                                                                        | Lens/Optics Sizes                                                                                                                       | & Thickness              | Minimum Qty.                                                                  | Options                           |
| Standard LSD<br>angles.<br>>85%                                                 |                                 | Poly <u>carbonate.</u><br>acryli <u>c.or.other</u><br>specified<br>optical materials                                                            | Up to 6.5" in size<br>0.030 up to 0.125"                                                                                                | thick                    | 10,000 or more                                                                | Requires<br>6.weeks.<br>lead.time |
|                                                                                 |                                 | Dire                                                                                                                                            | ection Turning Fil                                                                                                                      | m                        |                                                                               |                                   |
| Angle (FWHM)                                                                    | Substra                         | te & Thickness                                                                                                                                  | Transmission Spe                                                                                                                        | ctral Range              | Sizes                                                                         | Options                           |
| 20°<br>P1- 0.010                                                                |                                 |                                                                                                                                                 | 400nm-800nm                                                                                                                             | s for L <u>inear</u>     | 24" × 24"<br>Light Fixtures                                                   | PSA<br>Protective Film            |
| Temp. Range                                                                     |                                 | & Thickness<br>HM)                                                                                                                              | Diffusion Angles                                                                                                                        | fusion Angles BYK Transm |                                                                               | Haze                              |
| <u>-30°C to 80°</u> C                                                           | snecial                         | available by                                                                                                                                    | 60°                                                                                                                                     | 80                       | 80%*                                                                          |                                   |
| Angle (FWHM)                                                                    | 1                               | ostrate & Thickne                                                                                                                               | I                                                                                                                                       |                          | Options                                                                       |                                   |
| 50°<br>40°<br>30°<br>20°<br>15°<br>10<br>5°<br>1°<br>1°                         | U3 :<br>B27                     | Fused Silica<br>3mm<br>Q<br>.3mm                                                                                                                | 25mm<br>50mm<br>2×.2                                                                                                                    |                          | Custom elliptical ar<br>circular angles as w<br>larger sizes can be.          | ell as                            |
| *As measured by a BYK Ha<br>Note that the specification:                        | ze-Gard (ASTN<br>s contained he | И D 1003)<br>erein are subject to cha                                                                                                           | nge without notice.                                                                                                                     |                          |                                                                               | REV: 6-29-1                       |
| ha Architects                                                                   |                                 |                                                                                                                                                 |                                                                                                                                         | -                        | Гуре                                                                          |                                   |
| Athenaeum Exterio                                                               | or Facad                        | e                                                                                                                                               | _                                                                                                                                       |                          |                                                                               | GA                                |
| Set                                                                             |                                 |                                                                                                                                                 | _                                                                                                                                       |                          | Cut sheet 5 o                                                                 | f 5                               |
| UGL                                                                             |                                 |                                                                                                                                                 |                                                                                                                                         |                          | Scope: Exterior                                                               |                                   |

#### LED wall luminaire - shielded

#### Application

This is a shielded LED wall mounted <u>luminaire</u> featuring a half lid and guard. Arranged individually or in groups, they are great design elements for a host of lighting applications.

### Materials

Luminaire housing and guard constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Borosilicate glass with optical texture High temperature silicone gasket Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations Protection class IP65 Weight: 3.5 lbs

#### Flectrical

| Electrical                |                    |
|---------------------------|--------------------|
| Operating voltage         | 120-277VAC         |
| Minimum start temperature | -30° C             |
| LED module wattage        | 2.9W               |
| System wattage            | 4 W                |
| Controllability           | 0-10V dimmable     |
| Color rendering index     | Ra> 90             |
| Luminaire lumens          | 186 lumens (3000K) |
| Lifetime at Ta = 15° C    | >500,000 h (L70)   |
| Lifetime at Ta = 55° C    | 203,000 h (L70)    |
| LED color temperature     |                    |
|                           |                    |

4000K - Product number + **K4** 3500K - Product number + **K3** 3000K - Product number + **K3** 2700K - Product number + **K27** 

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED  $\underline{\text{luminaires}}$  - see website for details

#### Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

| Available colors | Black (BLK)  | White (WHT)  | RAL: |
|------------------|--------------|--------------|------|
|                  | Bronze (BRZ) | Silver (SLV) | CUS: |

В

7 1/8 4 1/8

Type: BEGA Product: Project: Modified:





2.9W

BEGA 1000 BEGA Way, <u>Carpinteria</u>, CA 93013 (805)684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technologies, <u>luminaire</u> data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018

### **AnnBeha Architects**

**Boston Athenaeum Exterior Facade** 

33 528

**Pricing Set** 

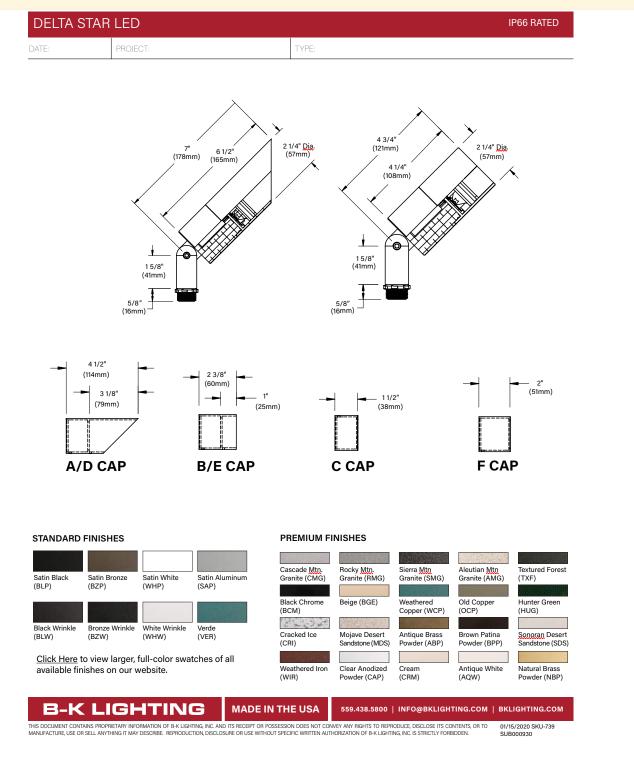
| Туре             |
|------------------|
| GB               |
| Cut sheet 1 of 1 |
| Scope: Exterior  |

### BEGA

| DATE:                                  | PROJECT:                                | TYPE:                                                                                                               |  |  |  |  |
|----------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| CATALOG NUM                            | BER LOGIC:                              |                                                                                                                     |  |  |  |  |
|                                        |                                         | CATALOG NUMBER LOGIC                                                                                                |  |  |  |  |
|                                        |                                         | Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL                                                   |  |  |  |  |
|                                        |                                         | MATERIAL                                                                                                            |  |  |  |  |
|                                        |                                         | (Blank) - Aluminum B - Brass S - Stainless Steel                                                                    |  |  |  |  |
|                                        |                                         | SERIES                                                                                                              |  |  |  |  |
|                                        |                                         | DS - Delta Star                                                                                                     |  |  |  |  |
|                                        |                                         | SOURCE                                                                                                              |  |  |  |  |
|                                        |                                         | LED - with Integral Dimming Driver (25W min. load when dimmed)*                                                     |  |  |  |  |
|                                        |                                         | LED TYPE                                                                                                            |  |  |  |  |
|                                        |                                         | e64 - 7W LED/2700K e66 - 7W LED/4000K                                                                               |  |  |  |  |
|                                        |                                         | e65 - 7W LED/3000K e74 - 7W LED/Amber                                                                               |  |  |  |  |
|                                        |                                         | OPTICS                                                                                                              |  |  |  |  |
| •                                      |                                         | NSP - Narrow Spot (13°) MFL - Medium Flood (23°)                                                                    |  |  |  |  |
| 2                                      |                                         | SP - Spot (16°) WFL - Wide Flood (31°)                                                                              |  |  |  |  |
|                                        |                                         | ADJUST-E-LUME® OUTPUT INTENSITY**                                                                                   |  |  |  |  |
|                                        |                                         | A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1                                                                       |  |  |  |  |
| *Designed for use                      | with LED transformer. Requires          | FINISH (See page 2 for full-color swatches)                                                                         |  |  |  |  |
| magnetic low volt                      |                                         | Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)                                                          |  |  |  |  |
| **Please see Adju<br>determine desired | st-e-Lume photometry to<br>I intensity. | Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR) |  |  |  |  |
| ***The 360SL cost                      | t is already included in the price      | Also available in RAL Finishes                                                                                      |  |  |  |  |
| of UPM, UPM dua                        | I, and Power Canopy.                    | Brass Finishes (MAC, POL, MIT)                                                                                      |  |  |  |  |
|                                        |                                         | Stainless Steel Finishes (MAC, POL)                                                                                 |  |  |  |  |
|                                        |                                         | LENS TYPE                                                                                                           |  |  |  |  |
|                                        |                                         | 12 - Soft Focus 13 - Rectilinear                                                                                    |  |  |  |  |
|                                        |                                         | SHIELDING                                                                                                           |  |  |  |  |
|                                        |                                         | 11 - Honeycomb Baffle                                                                                               |  |  |  |  |
|                                        |                                         | CAP STYLE                                                                                                           |  |  |  |  |
|                                        |                                         | A - 45°                                                                                                             |  |  |  |  |
|                                        |                                         | B - 90°                                                                                                             |  |  |  |  |
|                                        |                                         | C - Flush Lens                                                                                                      |  |  |  |  |
|                                        |                                         | D - 45° Less Weephole (Interior use only)                                                                           |  |  |  |  |
|                                        |                                         | E - 90° Less Weephole (Interior use only)                                                                           |  |  |  |  |
|                                        |                                         | F - 90° with Flush Lens                                                                                             |  |  |  |  |
|                                        |                                         | OPTIONS                                                                                                             |  |  |  |  |



| AnnBeha Architects               | Туре             |
|----------------------------------|------------------|
| Boston Athenaeum Exterior Facade | GC               |
| Pricing Set                      | Cut sheet 1 of 7 |
|                                  | Scope: Exterior  |



 AnnBeha Architects
 Type

 Boston Athenaeum Exterior Facade
 GC

 Pricing Set
 Cut sheet 2 of 7

 Scope: Exterior

| DELTA STA           | R LED                   | IP66 RATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |
|---------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| DATE:               | PROJECT:                | TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |
| CCESSOries (Configu | ure separately)         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                     |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                     | WEERE LEMEN Rower Ri    | de Parant Canadan Iree Sitadi Sterns Cadoopies U.P.M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |
|                     |                         | 7W LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
| LECTRICAL           | WATTAGE<br>WIRING       | 7W LED<br>XLPE, 18GA,150C, 600V, rated and certified to UL3321.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                     | REMOTE TRANSFORMER      | For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |
| PHYSICAL            | MATERIALS               | Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |
|                     | BODY                    | Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|                     | KNUCKLE                 | LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second,<br>reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serated teeth.<br>High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture<br>position. Design withstands 73 lbs. static load prior to movement for optical alignment with a ½" pipe thread<br>for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to<br>vertical adjustment.                                             |  |  |  |  |
|                     | CAP                     | Fully machined and accommodates two (2) lens or louver media.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|                     | LENS                    | Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed<br>optical compartment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                     | LED                     | Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade<br>and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements<br>and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral,<br>constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor<br>correction and eliminates inrush current (limited to <250mA non-dimming). Output, <u>overvoltage</u> , <u>open-<br/>circuit</u> , and short circuit protected. Conforms to Safety Std. C22.2 No. 25013-12. |  |  |  |  |
|                     | DIMMING                 | Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote<br>magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
|                     | ADJUST-E-LUME           | Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |
|                     | OPTICS                  | lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.<br>Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot<br>(SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|                     | HARDWARE                | Tamper resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |
|                     | EINISH                  | StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to<br>application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish<br>options available for brass material and metal finish option only for stainless steel material.                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
|                     | WARRANTY                | 5-year limited warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |
|                     | CERTIFICATION & LISTING | ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. Rotts compliant. Suitable for<br>indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the<br>USA with sustainable processes.                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |
|                     |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |
|                     |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |

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|----------------------------------|------------------|
| Boston Athenaeum Exterior Facade | GC               |
| Pricing Set                      | Cut sheet 3 of 7 |
| Friding Set                      | Scope: Exterior  |

| DATE:<br>CATALOG NU | PROJECT: |  | TYPE: |  |
|---------------------|----------|--|-------|--|
|                     |          |  |       |  |

|            | LM79 DATA              |               |                       | L70 DATA                                                                     | OPTICAL DATA |       |                     |            |
|------------|------------------------|---------------|-----------------------|------------------------------------------------------------------------------|--------------|-------|---------------------|------------|
| BK No.     | ССТ<br>( <u>Тур</u> .) | CRI<br>(Typ.) | Input Watts<br>(Typ.) | Minimum Rated Life (hrs.)<br>70% of initial <u>lumens</u> (L <sub>20</sub> ) | Angle        | CBCP  | Delivered<br>Lumens | Multiplier |
|            | 2700K                  | 80            | 7                     | 50,000                                                                       | 13°          | 5993  | 456                 | 0.87       |
| -          | 2700K                  | 80            | 7                     | 50,000                                                                       | 16°          | 4546  | 445                 | 0.87       |
| e64 -      | 2700K                  | 80            | 7                     | 50,000                                                                       | 23°          | 1726  | 397                 | 0.87       |
| -          | 2700K                  | 80            | 7                     | 50,000                                                                       | 31°          | 1131  | 399                 | 0.87       |
|            | 3000K                  | 80            | 7                     | 50,000                                                                       | 13°          | 6131  | 466                 | 0.89       |
| -          | 3000K                  | 80            | 7                     | 50,000                                                                       | 16°          | 4650  | 455                 | 0.89       |
| e65 -      | 3000K                  | 80            | 7                     | 50,000                                                                       | 23           | 1766  | 406                 | 0.89       |
| -          | 3000K                  | 80            | 7                     | 50,000                                                                       | 31°          | 1157  | 409                 | 0.89       |
|            | 4000K                  | 80            | 7                     | 50,000                                                                       | 13°          | 6889  | 524                 |            |
| - e66      | 4000K                  | 80            | 7                     | 50,000                                                                       | 16°          | 5225  | 511                 |            |
| eoo -      | 4000K                  | 80            | 7                     | 50,000                                                                       | 23°          | 1984  | 456                 |            |
|            | 4000K                  | 80            | 7                     | 50,000                                                                       | 31°          | 1300  | 459                 |            |
|            | Amber                  | 80            | 7                     | 50,000                                                                       | 13°          | 3,927 | 299                 | 0.57       |
| -<br>e74 - | Amber                  | 80            | 7                     | 50,000                                                                       | 16°          | 2,978 | 291                 | 0.57       |
| e/4 -      | Amber                  | 80            | 7                     | 50,000                                                                       | 23°          | 1,131 | 260                 | 0.57       |
|            | Amber                  | 80            | 7                     | 50,000                                                                       | 31°          | 741   | 262                 | 0.57       |
|            |                        |               |                       |                                                                              |              |       |                     |            |

OPTICS

| Optic              | Angle |  |
|--------------------|-------|--|
| NSP - Narrow Spot  | 13°   |  |
| SP - Spot          | 16°   |  |
| MFL - Medium Flood | 23°   |  |
| WFL - Wide Flood   | 31°   |  |
|                    |       |  |

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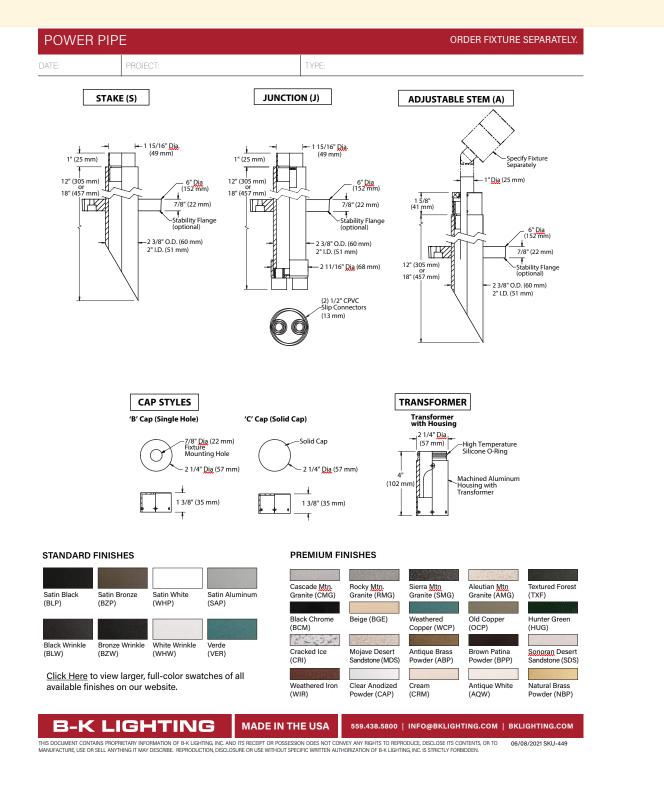
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| Boston Athenaeum Exterior Facade | GC               |  |  |  |
| Pricing Set                      | Cut sheet 4 of 7 |  |  |  |
|                                  | Scope: Exterior  |  |  |  |

| POWER PIPE                                          | ORDER FIXTURE SEPARATEL                                                                                             |  |  |  |  |  |  |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| DATE: PROJECT:                                      | TYPE:                                                                                                               |  |  |  |  |  |  |
| CATALOG NUMBER LOGIC:                               |                                                                                                                     |  |  |  |  |  |  |
|                                                     | CATALOG NUMBER LOGIC                                                                                                |  |  |  |  |  |  |
|                                                     | Example: PP - S12 - TRSS75 - BZW - B - 120 -SF                                                                      |  |  |  |  |  |  |
|                                                     | MATERIAL                                                                                                            |  |  |  |  |  |  |
|                                                     | (Blank) - Aluminum B - Brass S - Stainless Steel                                                                    |  |  |  |  |  |  |
|                                                     | SERIES                                                                                                              |  |  |  |  |  |  |
|                                                     | PP - Power Pipe System                                                                                              |  |  |  |  |  |  |
|                                                     | ТҮРЕ                                                                                                                |  |  |  |  |  |  |
|                                                     | S12 - 12" Stake                                                                                                     |  |  |  |  |  |  |
|                                                     | S18 - 18" Stake                                                                                                     |  |  |  |  |  |  |
|                                                     | J12 - 12" Junction Box                                                                                              |  |  |  |  |  |  |
|                                                     | J18 - 18" Junction Box                                                                                              |  |  |  |  |  |  |
|                                                     | A18 - 18" Adjustable Stem*                                                                                          |  |  |  |  |  |  |
|                                                     | TRANSFORMER HOUSING                                                                                                 |  |  |  |  |  |  |
|                                                     | (Blank) - Less Transformer Housing                                                                                  |  |  |  |  |  |  |
|                                                     | TRSS75 - 75VA Electronic Transformer with Housing**                                                                 |  |  |  |  |  |  |
|                                                     | TRe20 - TRe20 Electronic Transformer with Housing***                                                                |  |  |  |  |  |  |
| Includes stake, not available with Junction Box or  | FINISH                                                                                                              |  |  |  |  |  |  |
| ransformer.                                         | Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)                                                          |  |  |  |  |  |  |
| **For use with MR16 LED Lamps and Halogen<br>Lamps. | Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR) |  |  |  |  |  |  |
| ***For use with 3W-7W LED fixtures. 105-300 VAC.    | (Also available in RAL Finishes. See submittal SUB-1439-00)                                                         |  |  |  |  |  |  |
| 0/60 Hz. non-dimming.                               | Brass Finishes (MAC, POL, MIT)                                                                                      |  |  |  |  |  |  |
| ***Non-dimming.                                     | Stainless Steel Finishes (MAC, POL)                                                                                 |  |  |  |  |  |  |
|                                                     | CAP STYLE                                                                                                           |  |  |  |  |  |  |
|                                                     | (Blank) - Less Cap (Adjustable stem only)                                                                           |  |  |  |  |  |  |
|                                                     | B - Single Hole Cap                                                                                                 |  |  |  |  |  |  |
|                                                     | C- Solid Cap                                                                                                        |  |  |  |  |  |  |
|                                                     | INPUT VOLTAGE                                                                                                       |  |  |  |  |  |  |
|                                                     | (Blank) - For use with TRe20 Electronic Transformer***                                                              |  |  |  |  |  |  |
|                                                     | 120 - 120 VAC (For use with TRSS75)                                                                                 |  |  |  |  |  |  |
|                                                     | 230 - 230 VAC**** (Electronic only, for use with TRSS75)                                                            |  |  |  |  |  |  |
|                                                     | 277 - 277 VAC**** (For use with TRSS75)                                                                             |  |  |  |  |  |  |
|                                                     | OPTIONS                                                                                                             |  |  |  |  |  |  |
|                                                     | SF - Stability Flange                                                                                               |  |  |  |  |  |  |

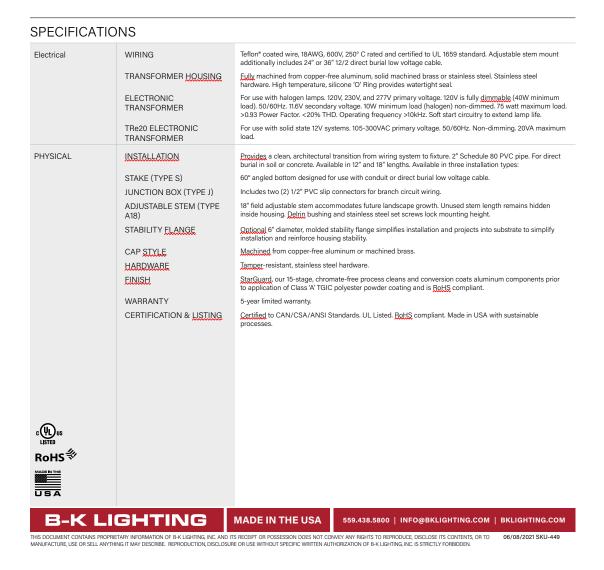
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|----------------------------------|------------------|--|--|--|--|
| Boston Athenaeum Exterior Facade | GC               |  |  |  |  |
| Pricing Set                      | Cut sheet 5 of 7 |  |  |  |  |
| Friding Set                      | Scope: Exterior  |  |  |  |  |



| AnnBeha Architects               | Туре             |
|----------------------------------|------------------|
| Boston Athenaeum Exterior Facade | GC               |
| Pricing Set                      | Cut sheet 6 of 7 |
| Friding Set                      | Scope: Exterior  |

| POWER PIP             | E        | ORDER FIXTURE SEPARATELY. |
|-----------------------|----------|---------------------------|
| DATE:                 | PROJECT: | TYPE:                     |
| Accessories (or-f-un- |          |                           |

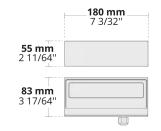


| AnnBeha Architects               | Туре             |
|----------------------------------|------------------|
| Boston Athenaeum Exterior Facade | GC               |
| Pricing Set                      | Cut sheet 7 of 7 |
| Friding Set                      | Scope: Exterior  |
|                                  |                  |

### **DOGO Forward**

LW6048.575-US







#### IK08 IP65 (🔔) (4)



Configurations Light distribution

Nominal LED power

Color temperature **BUG** rating

Lifetime L90B50

Lifetime L80B50

Options Control

Input voltage

Insulation class

Product colors

Extras

Mounting

Housing

Finishing

Fasteners

Gasket

Weight

Driver

Cable Notes

Rated luminaire power

Nominal LED lumens flux

Rated luminaire lumens flux



[SLFW] 85x90° <u> 1270 - 1400 lm</u> 8 W (350 mA) 993 - 1094 lm 10 W 3000 K CRI 80, 4000 K CRI 70 B0-U0-G1 >42,000 >42,000

On/Off, 0-10V 120-277V 50/60Hz, 110-120V 50/60Hz Class J

(8)

Mounting options Extra surface mounting adaptor for a flat wall

Technical information

Surface or wall mountable Corrosion resistant, marine grade aluminum housing Chromate conversion pretreatment followed by electrostatic powder coating Stainless steel (grade 304) Silicone Lens / Reflector High reflectance aluminium coating, multifaceted micro reflector Tempered safety glass Glass / Diffusor Impact protection IK08 Ingress protection IP65 2.5 lb LED module High power LEDs on metal-core PCB Internal LED driver Driver surge 3/3 kV protection Power factor > 0.90 Through wiring Single cable entry Operating -40...50°C temperature 7.7/8" of flexible cable

Please consult factory for 277 volt applications

HEPER USA LLC W227 N546 Westmound Drive Waukesha, 53186 Wisconsin, United States +1 262 888 0262 infoUS@hepergroup.com

We reserve the right to change specifications without prior written notice. Edition: 24.03.2022. For current version visit heperlighting.com. All flux and power values derived following appropriate JES, CIE and applicable standards.

Туре

Cut sheet 1 of 2

Scope: Exterior

1/2

GD

AnnBeha Architects

**Boston Athenaeum Exterior Facade** 

### **Pricing Set**

Available Light • 617.944.6800 31 State Street, 6th Floor · Boston MA 02109

| Project name                                         |                                                                                                                                                                                                                       |                                                       |                                                                                            |                                       | Quantity                                                |     |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|-----|
| Date                                                 | 1                                                                                                                                                                                                                     | Note                                                  |                                                                                            |                                       |                                                         |     |
| LW6048.575-US                                        |                                                                                                                                                                                                                       |                                                       |                                                                                            |                                       |                                                         |     |
|                                                      | 1                                                                                                                                                                                                                     |                                                       | 1                                                                                          | 1                                     | 1                                                       |     |
| Light distribution                                   | Drive currer<br>power)                                                                                                                                                                                                | nt (LED                                               | C <u>olor temperature</u>                                                                  | Control                               | Input volt                                              | age |
| [SLFW]<br>Special linear,<br>Forward throw<br>85x90° | <b>[350]</b><br>8 W (350 mA                                                                                                                                                                                           | )                                                     | [ <b>830]</b><br>3000 K <sub>-</sub> CRI 80<br>[ <b>740]</b><br>4000 K <sub>-</sub> CRI 70 | [ONOFF]<br>On/Off<br>[0-10V]<br>0-10V | <b>[UNI]</b><br>120-277V 5<br><b>[US]</b><br>110-120V 5 |     |
| Insulation class                                     | Product col                                                                                                                                                                                                           | ors                                                   | Extras                                                                                     |                                       | Ι                                                       |     |
| IC1]<br>Class.I                                      | [HM1]<br>Black.(Textur<br>[HM2]<br>Datk.gray.(Te<br>[HM3]<br>Anthracte gr<br>(Textured)<br>[HM4]<br>Light.gray.(Te<br>[HM5]<br>White (Textu<br>[HM6]<br>Bronze.(Text<br>[CC]<br>Custom Colo<br>(Please speci<br>code) | extured)<br>ray<br>extured)<br>red)<br>ured)<br>ured) | Mounting options<br>[ESMA]<br>Extra surface<br>mounting adaptor for<br>a flat wall         |                                       |                                                         |     |

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Pricing Set

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|------------------|----|
| Cut sheet 2 of 2 |    |
| Scope: Exterior  |    |

Part Number:

### Date:



### FILAMENT BULB FAMILY

### FEATURES

- Suitable to replace 40W and 60W incandescent
- Vintage A-lamp look fits all decorative applications
- Smooth dimming with existing installations\*
- Comfortable warm diffused light
- Micro-designed driver No heatsink required
- Suitable for use in wet locations , not suitable for use in totally enclosed fixtures
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 104°F (-20°C to 40°C)
- Rated Lifetime (L70): 15,000hrs
- 3 year limited warranty





| Product | Model             | Equiv. | CCT   | <u> Einish</u> | Wattage<br>(W) | Lumens<br>(LM) | Efficacy<br>(LPW) | Power<br>Eactor | Input<br>Voltage | CRI | <mark>, Dim</mark> .* | UL<br>Location | Fixture<br>Rating | <u>ES</u> / T20 |
|---------|-------------------|--------|-------|----------------|----------------|----------------|-------------------|-----------------|------------------|-----|-----------------------|----------------|-------------------|-----------------|
| 98357   | 5FA19DIM/820/A    | 40W    | 2000K | Amber          | 5              | 340            | 68                | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N.A      |
| 98376   | 5FA19DIM/827      | 40W    | 2700K | Clear          | 5              | 450            | 90                | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N.A      |
| 98450   | 5FA19DIM/827/FR   | 40W    | 2700K | Frosted        | 5              | 450            | 90                | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N.A      |
| 98278   | 7.5FA19DIM/827    | 60W    | 2700K | Clear          | 7.5            | 800            | 107               | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | √ / N.A.        |
| 98448   | 7.5FA19DIM/820/A  | 60W    | 2000K | Amber          | 7.5            | 600            | 80                | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N./      |
| 98449   | 7.5FA19DIM/827/FR | 60W    | 2700K | Frosted        | 7.5            | 800            | 107               | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N.A      |
| 98358   | 7.5FA19DIM/827/SB | 60W    | 2700K | Silver Bowl    | 7.5            | 700            | 93                | 0.7             | 120V             | 82  | Yes                   | Wet            | Non-Enclosed      | N.A. / N.A      |
| 98279   | 9FA19DIM/927      | 60W    | 2700K | Clear          | 9              | 810            | 90                | 0.7             | 120V             | 92  | Yes                   | Wet            | Non-Enclosed      | 1/1             |

**DIMENSION & WEIGHT** 



| Model             | Base | MOL     | Dia.   | Weight |
|-------------------|------|---------|--------|--------|
| 5FA19DIM/820/A    | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 5FA19DIM/827      | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 5FA19DIM/827/FR   | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 7.5FA19DIM/827    | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 7.5FA19DIM/820/A  | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 7.5FA19DIM/827/FR | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 7.5FA19DIM/827/SB | E26  | 4-3/16" | 2-3/8" | 0.07lb |
| 9FA19DIM/927      | E26  | 4-3/16" | 2-3/8" | 0.07lb |

Туре

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An ILLUMUS Brand

**AnnBeha Architects** 

**Boston Athenaeum Exterior Facade** 

Pricing Set

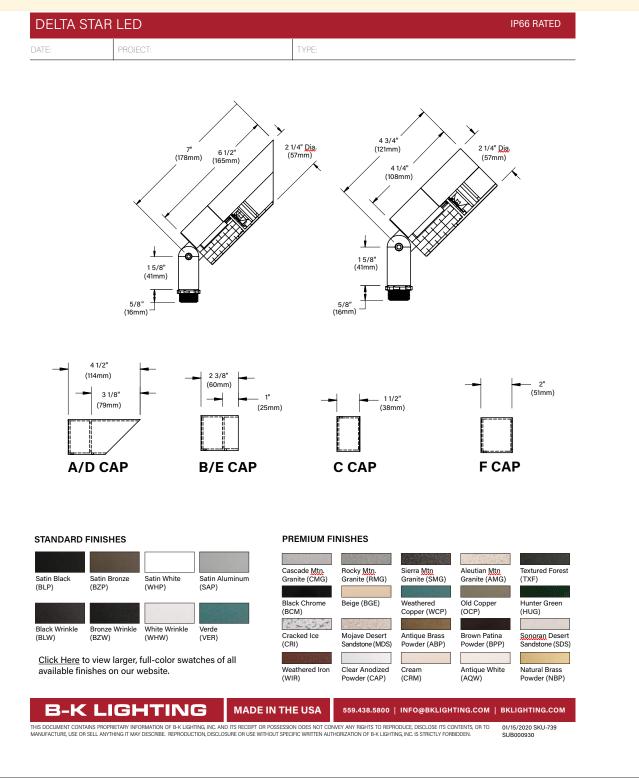
GE Cut sheet 1 of 1

Scope: Exterior

| DATE:                                  | PROJECT:                                | TYPE:                                                                                                               |  |  |
|----------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--|
| CATALOG NUM                            | BER LOGIC:                              |                                                                                                                     |  |  |
|                                        |                                         | CATALOG NUMBER LOGIC                                                                                                |  |  |
|                                        |                                         | Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL                                                   |  |  |
|                                        |                                         | MATERIAL                                                                                                            |  |  |
|                                        |                                         | (Blank) - Aluminum B - Brass S - Stainless Steel                                                                    |  |  |
|                                        |                                         | SERIES                                                                                                              |  |  |
|                                        |                                         | DS - Delta Star                                                                                                     |  |  |
|                                        |                                         | SOURCE                                                                                                              |  |  |
|                                        |                                         | LED - with Integral Dimming Driver (25W min. load when dimmed)*                                                     |  |  |
|                                        |                                         | LED TYPE                                                                                                            |  |  |
|                                        |                                         | e64 - 7W LED/2700K e66 - 7W LED/4000K                                                                               |  |  |
|                                        |                                         | e65 - 7W LED/3000K e74 - 7W LED/Amber                                                                               |  |  |
|                                        |                                         | OPTICS                                                                                                              |  |  |
| •                                      |                                         | NSP - Narrow Spot (13°) MFL - Medium Flood (23°)                                                                    |  |  |
|                                        |                                         | SP - Spot (16°) WFL - Wide Flood (31°)                                                                              |  |  |
|                                        | ADJUST-E-LUME® OUTPUT INTENSITY**       |                                                                                                                     |  |  |
|                                        |                                         | A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1                                                                       |  |  |
| *Designed for use                      | with LED transformer. Requires          | FINISH (See page 2 for full-color swatches)                                                                         |  |  |
| magnetic low volt                      |                                         | Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)                                                          |  |  |
| **Please see Adju<br>determine desired | st-e-Lume photometry to<br>I intensity. | Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRI, CRM, HUG, MDS, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR) |  |  |
| ***The 360SL cost                      | t is already included in the price      | Also available in RAL Finishes                                                                                      |  |  |
| of UPM, UPM dua                        | I, and Power Canopy.                    | Brass Finishes (MAC, POL, MIT)                                                                                      |  |  |
|                                        |                                         | Stainless Steel Finishes (MAC, POL)                                                                                 |  |  |
|                                        |                                         | LENS TYPE                                                                                                           |  |  |
|                                        |                                         | 12 - Soft Focus 13 - Rectilinear                                                                                    |  |  |
|                                        |                                         | SHIELDING                                                                                                           |  |  |
|                                        |                                         | 11 - Honeycomb Baffle                                                                                               |  |  |
|                                        |                                         | CAP STYLE                                                                                                           |  |  |
|                                        |                                         | A - 45°                                                                                                             |  |  |
|                                        |                                         | B - 90°                                                                                                             |  |  |
|                                        |                                         | C - Flush Lens                                                                                                      |  |  |
|                                        |                                         | D - 45° Less Weephole (Interior use only)                                                                           |  |  |
|                                        |                                         | E - 90° Less Weephole (Interior use only)                                                                           |  |  |
|                                        |                                         | F - 90° with Flush Lens                                                                                             |  |  |
|                                        |                                         | OPTIONS                                                                                                             |  |  |



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| Boston Athenaeum Exterior Facade | GF               |
| Pricing Set                      | Cut sheet 1 of 4 |
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Boston Athenaeum Exterior Facade
Pricing Set
Type
GF
Cut sheet 2 of 4
Scope: Exterior

| DELTA STAF           | R LED                   | IP66 RATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
|----------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| DATE:                | PROJECT:                | TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |
| CCESSOries (Configur | e separately)           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|                      |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|                      | eer Eine UEMBM Bower Bi | de Ramer Canadar Iree Strad, Steins Canodries U.P.M.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
|                      | WATTAGE                 | 7W LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |
| LECTRICAL            | WIRING                  | XLPE, 18GA,150C, 600V, rated and certified to UL3321.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |
|                      | REMOTE TRANSFORMER      | For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |
| PHYSICAL             | MATERIALS               | Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |
|                      | BODY                    | Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
|                      | KNUCKLE                 | LOCK knuckle is integral to the body and features an interior taper machined from solid billet and a second,<br>reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth.<br>High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture<br>position. Design withstands 73 lbs. static load prior to movement for optical alignment with a ½" pipe thread<br>for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to<br>vertical adjustment.                                                  |  |  |  |  |  |
|                      | CAP                     | Fully machined and accommodates two (2) lens or louver media.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
|                      | LENS                    | Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed<br>optical compartment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|                      | LED                     | Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade<br>and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements<br>and exceeds ENERGY STAR* lumen maintenance requirements. LM-80 certified components. Integral,<br>constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor<br>correction and eliminates inrush current (limited to <250mA non-dimming). Output, <u>overvoltage</u> , <u>open-</u><br><u>circuit</u> , and short circuit protected. Conforms to Safety Std. C22.2 No. 25013-12. |  |  |  |  |  |
|                      | DIMMING                 | Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote<br>magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value.                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |
|                      | ADJUST-E-LUME           | Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.)<br>Jumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity.                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |
|                      | OPTICS                  | Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot<br>(SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |
|                      | HARDWARE                | Tamper resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |
|                      | FINISH                  | StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to<br>application of Class 'A' TGIC polyester powder coating and is Boths compliant. Powder coat or metal finish<br>options available for brass material and metal finish option only for stainless steel material.                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |
|                      | WARRANTY                | 5-year limited warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |
| c Us<br>LISTED       | CERTIFICATION & LISTING | ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. Rotts compliant. Suitable for<br>indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the<br>USA with sustainable processes.                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
| RoHS <sup>≉</sup>    |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |
|                      | IGHTING                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |

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| Boston Athenaeum Exterior Facade | GF               |
| Pricing Set                      | Cut sheet 3 of 4 |
|                                  | Scope: Exterior  |

| CATALOG NU | MBER LOGIC: | <br>  |       |  |
|------------|-------------|-------|-------|--|
| DATE:      | PROJECT:    | <br>Т | TYPE: |  |
|            |             |       |       |  |

| LM79 DATA  |                        |               | LM79 DATA L70 DATA    |                                                                              |       |       | OPTICAL DATA        |            |  |  |
|------------|------------------------|---------------|-----------------------|------------------------------------------------------------------------------|-------|-------|---------------------|------------|--|--|
| BK No.     | ССТ<br>( <u>Тур</u> .) | CRI<br>(Typ.) | Input Watts<br>(Typ.) | Minimum Rated Life (hrs.)<br>70% of initial <u>lumens</u> (L <sub>20</sub> ) | Angle | CBCP  | Delivered<br>Lumens | Multiplier |  |  |
|            | 2700K                  | 80            | 7                     | 50,000                                                                       | 13°   | 5993  | 456                 | 0.87       |  |  |
| e64 –      | 2700K                  | 80            | 7                     | 50,000                                                                       | 16°   | 4546  | 445                 | 0.87       |  |  |
|            | 2700K                  | 80            | 7                     | 50,000                                                                       | 23°   | 1726  | 397                 | 0.87       |  |  |
|            | 2700K                  | 80            | 7                     | 50,000                                                                       | 31°   | 1131  | 399                 | 0.87       |  |  |
|            | 3000K                  | 80            | 7                     | 50,000                                                                       | 13°   | 6131  | 466                 | 0.89       |  |  |
|            | 3000K                  | 80            | 7                     | 50,000                                                                       | 16°   | 4650  | 455                 | 0.89       |  |  |
| e65 -      | 3000K                  | 80            | 7                     | 50,000                                                                       | 23    | 1766  | 406                 | 0.89       |  |  |
| -          | 3000K                  | 80            | 7                     | 50,000                                                                       | 31°   | 1157  | 409                 | 0.89       |  |  |
|            | 4000K                  | 80            | 7                     | 50,000                                                                       | 13°   | 6889  | 524                 |            |  |  |
| - e66      | 4000K                  | 80            | 7                     | 50,000                                                                       | 16°   | 5225  | 511                 |            |  |  |
| eoo -      | 4000K                  | 80            | 7                     | 50,000                                                                       | 23°   | 1984  | 456                 |            |  |  |
|            | 4000K                  | 80            | 7                     | 50,000                                                                       | 31°   | 1300  | 459                 |            |  |  |
|            | Amber                  | 80            | 7                     | 50,000                                                                       | 13°   | 3,927 | 299                 | 0.57       |  |  |
| -<br>e74 - | Amber                  | 80            | 7                     | 50,000                                                                       | 16°   | 2,978 | 291                 | 0.57       |  |  |
| e/4 -      | Amber                  | 80            | 7                     | 50,000                                                                       | 23°   | 1,131 | 260                 | 0.57       |  |  |
|            | Amber                  | 80            | 7                     | 50,000                                                                       | 31°   | 741   | 262                 | 0.57       |  |  |
|            |                        |               |                       |                                                                              |       |       |                     |            |  |  |

OPTICS

| Optic              | Angle |  |
|--------------------|-------|--|
| NSP - Narrow Spot  | 13°   |  |
| SP - Spot          | 16°   |  |
| MFL - Medium Flood | 23°   |  |
| WFL - Wide Flood   | 31°   |  |
|                    |       |  |

**B-K LIGHTING** MADE IN THE USA 559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

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| Boston Athenaeum Exterior Facade | GF               |
| Pricing Set                      | Cut sheet 4 of 4 |
| Friding Set                      | Scope: Exterior  |

| Cendo M Wet Static <u>V</u>     | Vhite Linear Illumir                                                                                | nation System                                                                                                                                                                                                                                                                                                                 | l           | Iluminii                                                                                                                                                      |
|---------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | wet location<br>up to 144",<br>up to 48' di<br>• Suitable for<br><u>millwork</u> rec<br>mount appli | <ul> <li>24VDC Class 2 and IP68 rated for<br/>wet locations, fixtures made to order<br/>up to 144". Fixtures can be linked<br/>up to 48' depending on output</li> <li>Suitable for <u>undercabinet</u>,<br/>millwork recessed, and surface<br/>mount applications</li> <li>Dot free even illumination with frosted</li> </ul> |             | y options offer<br>nd vibrant<br>ues up to 97<br>ons offer best in<br>fficacy with over<br>er 80 [m/W<br>bond solder method<br>bs of pull force<br>connectors |
| 0.4<br>P68 echnical Information | 49°<br>↓ 0.69° → Finish Option:<br>Black power                                                      | zed Bronze powd                                                                                                                                                                                                                                                                                                               | er coated R | MADE IN VERD<br>HS<br>HS<br>JA8<br>DEPLIANT CHI<br>LISTED                                                                                                     |
|                                 | High Color Quality                                                                                  | High Effi                                                                                                                                                                                                                                                                                                                     | 595X        | <u>High</u> Efficacy                                                                                                                                          |

| TYPE                                            | High Color Quality |           |                 | High Efficacy   |                 |                 |           | High Efficacy   |  |
|-------------------------------------------------|--------------------|-----------|-----------------|-----------------|-----------------|-----------------|-----------|-----------------|--|
| OUTPUT OPTIONS                                  | 7250               | 72HO      | 72VHO           | HE48LO          | HE48SO          | HE48MO          | HE48HO    | HE64VHO         |  |
| Lumens Output (3000K)<br>(with a Clear Lens)    | 163 lm/ft          | 266 lm/ft | 323 lm/ft       | 159 lm/ft       | 220 lm/ft       | 294 lm/ft       | 472 lm/ft | 597 lm/ft       |  |
| Average Power Consumption<br>(for a 4' section) | 2.8 W/ft           | 4.8 W/ft  | 6.0 W/ft        | 1.9 W/ft        | 2.8 W/ft        | 3.5 W/ft        | 6.5 W/ft  | 7.5 W/ft        |  |
| Efficacy                                        | 58 <u>lm</u> /W    | 55 [m/W   | 54 <u>lm</u> /W | 84 <u>lm</u> /W | 79 <u>Im</u> /W | 84 <u>lm</u> /W | 73 [m/W   | 80 <u>lm</u> /W |  |
| Max Run Length<br>(in series)                   | 40 ft              | 31 ft     | 22 ft           | 48 ft           | 42 ft           | 33 ft           | 21 ft     | 15 ft           |  |

|            | High Color Quali                  | ty (72) |    |     |    |
|------------|-----------------------------------|---------|----|-----|----|
| CCT        | Multiplier<br>(reference - 3000K) |         | TM | -30 |    |
| <u>CCI</u> | (reference - 3000K)               | CRI     | Rf | Rg  | R9 |
| 2700K      | 0.97                              | 97      | 96 | 99  | 93 |
| 3000K      | 1.00                              | 96      | 95 | 99  | 92 |
| 3500K      | 1.01                              | 96      | 95 | 100 | 94 |
| 4000K      | 1.34                              | 97      | 96 | 102 | 92 |
|            |                                   |         |    |     |    |

|            | High Efficacy (HE4                | B/HE64 | -) |    |    |
|------------|-----------------------------------|--------|----|----|----|
| 0.07       | Multiplier                        |        |    |    |    |
| <u>CCI</u> | Multiplier<br>(reference - 3000K) | CRI    | Rf | Rg | Rç |
| 2700K      | 0.94                              | 92     | 90 | 99 | 46 |
| 3000К      | 1.00                              | 92     | 89 | 99 | 62 |
| 3500K      | 1.02                              | 92     | 89 | 99 | 58 |
| 4000K      | 1.02                              | 92     | 86 | 94 | 52 |

Туре

Cut sheet 1 of 10

Scope: Exterior

### Ordering Code

| MODEL             | LENGTH                    | OUTPUT                                                                                       | CCT                                                      | LENS <sup>2</sup>                          | MOUNTING                                                                                            | FINISH <sup>3</sup>                                    | POSITION<br>TYPE                | POWER FEED                                                                                                                                                                                                                                                         | ACCESSORIES                                                                                                                                                                                          |
|-------------------|---------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KMW - Kenda M Wet | 12"-144"<br>1° increments | 72SO - Standard<br>72HO - High<br>72VHO - Very High                                          | 27K - 2700K<br>30K - 3000K<br>35K - 3500K<br>40K - 4000K | C - Clear Lens<br>F - Frosted<br>G - Graze | FC - Fixed Clip<br>A - Adjustable<br>FC45 - Fixed Clip, 45°<br>EFC - Tamper Resistant<br>Fixed Clip | SA - Silver<br>BK - Black<br>BZ - Bronze<br>WH - White | E - End<br>B - Back<br>S - Side | <ol> <li>72" wire leads<br/>1X2 - 72" wire leads at both ends</li> <li>72" wire leads at both end and<br/>Femdle Quick Connect at other</li> <li>Single Male Quick Connect</li> <li>Female Quick Connect at one end<br/>and Male Quick Connect at other</li> </ol> | N/A, leave blank<br>BLS - Blade louver, Silver<br>BLBK - Blade louver, Black<br>BLWH - Blade louver, White<br>GSS - Glare shield, Silver<br>GSBK - Glare shield, Black<br>GSWH - Glare shield, White |
|                   | 12"-144"<br>2" increments | HE48LO - Low<br>HE48SO - Standard<br>HE48MO - Medium<br>HE48HO - High<br>HE64VHO - Very High | 27K - 2700K<br>30K - 3000K<br>35K - 3500K<br>40K - 4000K |                                            |                                                                                                     |                                                        |                                 |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                      |

Custom lengths and increments are available, please consult inside Sales with specific request.
 Custom lengths and increments are available, please consult inside Sales with specific request.
 High Effloate Value and the comply with Tile 24 JAB. High Cable Value available, please consult inside Sales with specific request.
 Set K2, and WH Insides may trave settendies and mass. Custom <u>RAV</u> exercise available, please consult inside Sales with specific request.

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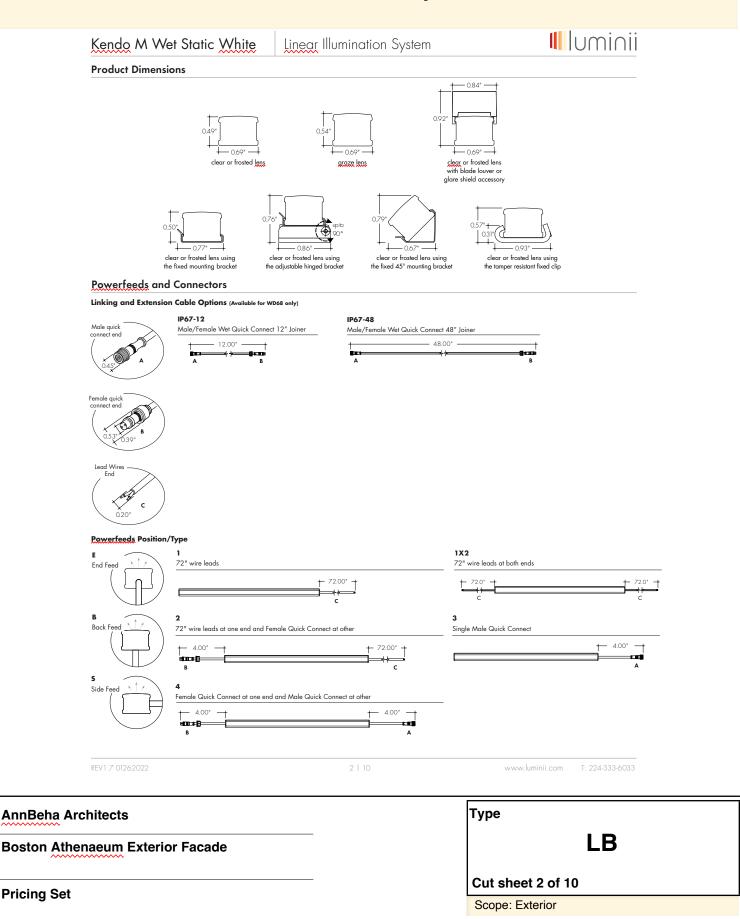
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LB

**Boston Athenaeum Exterior Facade** 

**Pricing Set** 

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### Kendo M Wet Static White

Linear Illumination System

# Iuminii

### Lens Option / Light Transmission

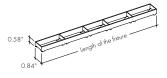
| Light Transmission           Lens/Assesserx         Iransmission<br>Percentage           Clear Lens         100% |      |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------|------|--|--|--|--|--|
| Lens/Accessory                                                                                                   |      |  |  |  |  |  |
| Clear Lens                                                                                                       | 100% |  |  |  |  |  |
| Graze Lens                                                                                                       | 88%  |  |  |  |  |  |
| Frosted Lens                                                                                                     | 49%  |  |  |  |  |  |

| 0.1.1.7     |       | Lens Type |       |                                     |
|-------------|-------|-----------|-------|-------------------------------------|
| Output Type | Clear | Frosted   | Graze | _                                   |
| 7250        | CD    | ND        | CD    |                                     |
| 72HO        | CD    | ND        | CD    |                                     |
| 72VHO       | CD    | ND        | CD    |                                     |
| HE48LO      | CD    | ND        | CD    |                                     |
| HE48SO      | CD    | ND        | CD    |                                     |
| HE48MO      | CD    | ND        | CD    |                                     |
| HE48HO      | CD    | ND        | CD    | CD - Clear Dott                     |
| HE64VHO     | CD    | ND        | CD    | SD - Slight Dott<br>ND - No Dotting |

#### **Accessory Options**

GSXX

Glare Shield reduces glare at high angle Available only with complete fixture. Reference page 1 ordering code



BLXX

Blade Louver reduces glare at high angle in two directions Available only with complete fixture Reference page 1 ordering code

(and a second se 0.58" 0.84



Туре

Cut sheet 3 of 10

Scope: Exterior

**LVSP-WET** Splice box: wet rated, low voltage, gray

26

**LVSP-WET-CAM** Connector for splice box, low voltage for cable management, gray.



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**Boston Athenaeum Exterior Facade** 

**Pricing Set** 

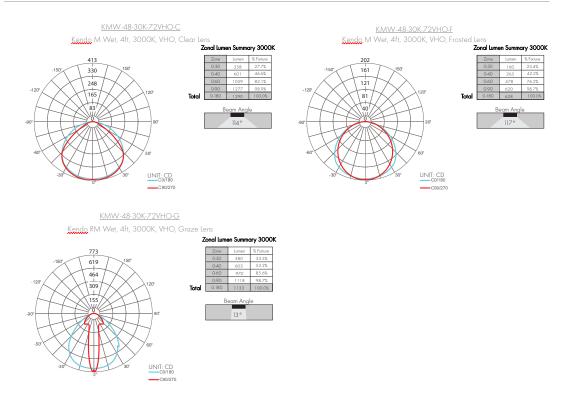
| Available Light • 617.944.6800               |  |
|----------------------------------------------|--|
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Linear Illumination System

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Photometry



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| Boston Athenaeum Exterior Facade |        | LB                                   |
| Pricing Set                      |        | Cut sheet 4 of 10<br>Scope: Exterior |

| Kendo M W | et Static | White |
|-----------|-----------|-------|
|-----------|-----------|-------|

Linear Illumination System

### Power Consumption

Tested at full power with PSD Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

|                |          |      |              |      |                |          | н    | igh C        | olor | Quality        | (72)      |      |       |      |                |           |      |       |      |
|----------------|----------|------|--------------|------|----------------|----------|------|--------------|------|----------------|-----------|------|-------|------|----------------|-----------|------|-------|------|
| Nominal        | Actual   |      | <u>Watts</u> |      | Nominal        | Actual   |      | <u>Watts</u> |      | Nominal        | Actual    |      | Watts |      | Nominal        | Actual    |      | Watts |      |
| Length<br>(in) | Length   | SO   | НО           | νно  | Length<br>(in) | Length   | SO   | но           | νно  | Length<br>(in) | Length    | SO   | но    | VHO  | Length<br>(in) | Length    | SO   | но    | VHO  |
| 12             | 11 5/16  | 2.7  | 4.4          | 6.2  | 47             | 46 1/16  | 10.2 | 17.1         | 22.6 | 82             | 81 15/16  | 18.3 | 29.5  | 38.4 | 117            | 116 11/16 | 25.9 | 40.8  | 52.4 |
| 13             | 12 7/16  | 2.7  | 4.4          | 6.2  | 48             | 47 3/16  | 10.5 | 17.4         | 23.1 | 83             | -         | -    | -     | -    | 118            | 117 13/16 | 26.1 | 41.1  | 52.8 |
| 14             | 13 10/16 | 2.9  | 4.8          | 6.7  | 49             | 48 6/16  | 10.7 | 17.8         | 23.5 | 84             | 83 1/16   | 18.5 | 29.8  | 38.8 | 119            | 119       | 26.3 | 41.4  | 53.2 |
| 15             | 14 12/16 | 3.1  | 5.2          | 7.3  | 50             | 49 8/16  | 11.1 | 18.6         | 24.4 | 85             | 84 4/16   | 18.7 | 30.1  | 39.2 | 120            | -         |      | -     | -    |
| 16             | 15 15/16 | 3.4  | 5.6          | 7.8  | 51             | 50 11/16 | 11.4 | 18.9         | 24.9 | 86             | 85 6/16   | 19.2 | 30.8  | 40.0 | 121            | 120 2/16  | 26.5 | 41.7  | 53.6 |
| 17             | -        | -    | -            |      | 52             | 51 13/16 | 11.6 | 19.3         | 25.3 | 87             | 86 9/16   | 19.4 | 31.1  | 40.4 | 122            | 121 5/16  | 26.7 | 42.0  | 54.0 |
| 18             | 17 1/16  | 3.6  | 6.0          | 8.3  | 53             | 53       | 11.9 | 19.7         | 25.7 | 88             | 87 12/16  | 19.6 | 31.5  | 40.8 | 123            | 122 7/16  | 27.1 | 42.6  | 54.7 |
| 19             | 18 4/16  | 3.9  | 6.5          | 8.9  | 54             | -        | -    | -            | -    | 89             | 88 14/16  | 19.9 | 31.8  | 41.1 | 124            | 123 10/16 | 27.3 | 42.9  | 55.0 |
| 20             | 19 6/16  | 4.4  | 7.3          | 9.9  | 55             | 54 2/16  | 12.1 | 20.1         | 26.1 | 90             | -         | -    | -     | -    | 125            | 124 12/16 | 27.5 | 43.1  | 55.4 |
| 21             | 20 9/16  | 4.6  | 7.7          | 10.5 | 56             | 55 5/16  | 12.3 | 20.5         | 26.6 | 91             | 90 1/16   | 20.1 | 32.2  | 41.5 | 126            | 125 15/16 | 27.7 | 43.4  | 55.7 |
| 22             | 21 11/16 | 4.8  | 8.1          | 11.0 | 57             | 56 7/16  | 12.8 | 21.3         | 27.4 | 92             | 91 3/16   | 20.4 | 32.5  | 41.9 | 127            | -         |      | -     | -    |
| 23             | 22 14/16 | 5.1  | 8.6          | 11.5 | 58             | 57 10/16 | 13.1 | 21.6         | 27.8 | 93             | 92 6/16   | 20.6 | 32.9  | 42.3 | 128            | 127 1/16  | 27.9 | 43.7  | 56.1 |
| 24             | -        | -    | -            |      | 59             | 58 12/16 | 13.3 | 22.0         | 28.3 | 94             | 93 8/16   | 21.1 | 33.6  | 43.1 | 129            | 128 4/16  | 28.1 | 43.9  | 56.4 |
| 25             | 24 1/16  | 5.3  | 9.0          | 12.1 | 60             | 59 15/16 | 13.6 | 22.4         | 28.7 | 95             | 94 11/16  | 21.3 | 33.9  | 43.4 | 130            | 129 7/16  | 28.5 | 44.5  | 57.1 |
| 26             | 25 3/16  | 5.6  | 9.4          | 12.6 | 61             | -        | -    | -            |      | 96             | 95 13/16  | 21.5 | 34.2  | 43.8 | 131            | 130 9/16  | 28.7 | 44.7  | 57.4 |
| 27             | 26 6/16  | 5.8  | 9.8          | 13.1 | 62             | 61 1/16  | 13.8 | 22.8         | 29.1 | 97             | 97        | 21.8 | 34.6  | 44.2 | 132            | 131 12/16 | 28.9 | 45.0  | 57.8 |
| 28             | 27 8/16  | 6.2  | 10.5         | 14.1 | 63             | 62 4/16  | 14.0 | 23.1         | 29.6 | 98             | -         | -    | -     | -    | 133            | 132 14/16 | 29.1 | 45.3  | 58.1 |
| 29             | 28 11/16 | 6.5  | 10.9         | 14.5 | 64             | 63 6/16  | 14.5 | 23.8         | 30.5 | 99             | 98 2/16   | 22.0 | 34.9  | 44.6 | 134            | -         |      | -     | -    |
| 30             | 29 13/16 | 6.7  | 11.2         | 15.0 | 65             | 64 9/16  | 14.7 | 24.1         | 31.0 | 100            | 99 5/16   | 22.2 | 35.2  | 45.0 | 135            | 134 1/16  | 29.3 | 45.5  | 58.4 |
| 31             | 31       | 6.9  | 11.6         | 15.5 | 66             | 65 12/16 | 14.9 | 24.4         | 31.4 | 101            | 100 7/16  | 22.5 | 35.9  | 45.9 | 136            | 135 3/16  | 29.5 | 45.7  | 58.7 |
| 32             | -        | -    | -            |      | 67             | 66 14/16 | 15.1 | 24.7         | 31.9 | 102            | 101 10/16 | 22.7 | 36.2  | 46.3 | 137            | 136 6/16  | 29.6 | 45.9  | 59.1 |
| 33             | 32 2/16  | 7.1  | 12.0         | 16.0 | 68             | -        | -    | -            | -    | 103            | 102 12/16 | 22.9 | 36.5  | 46.7 | 138            | 137 8/16  | 30.0 | 46.3  | 59.7 |
| 34             | 33 5/16  | 7.3  | 12.3         | 16.5 | 69             | 68 1/16  | 15.3 | 25.0         | 32.4 | 104            | 103 15/16 | 23.1 | 36.8  | 47.1 | 139            | 138 11/16 | 30.2 | 46.5  | 60.0 |
| 35             | 34 7/16  | 7.8  | 13.1         | 17.4 | 70             | 69 3/16  | 15.5 | 25.4         | 32.8 | 105            | -         | -    | -     | -    | 140            | 139 13/16 | 30.3 | 46.8  | 60.3 |
| 36             | 35 10/16 | 8.0  | 13.4         | 17.9 | 71             | 70 6/16  | 15.8 | 25.7         | 33.3 | 106            | 105 1/16  | 23.3 | 37.1  | 47.5 | 141            | 141       | 30.5 | 47.0  | 60.6 |
| 37             | 36 12/16 | 8.2  | 13.8         | 18.4 | 72             | 71 8/16  | 16.2 | 26.3         | 34.2 | 107            | 106 4/16  | 23.5 | 37.4  | 48.0 | 142            | -         |      | -     | -    |
| 38             | 37 15/16 | 8.4  | 14.2         | 18.9 | 73             | 72 11/16 | 16.4 | 26.6         | 34.7 | 108            | 107 6/16  | 23.9 | 38.1  | 48.8 | 143            | 142 2/16  | 30.7 | 47.2  | 61.0 |
| 39             | -        | -    | -            | -    | 74             | 73 13/16 | 16.6 | 26.9         | 35.1 | 109            | 108 9/16  | 24.1 | 38.4  | 49.2 | 144            | 143 5/16  | 30.8 | 47.4  | 61.3 |
| 40             | 39 1/16  | 8.7  | 14.5         | 19.3 | 75             | 75       | 16.8 | 27.3         | 35.5 | 110            | 109 12/16 | 24.3 | 38.7  | 49.6 |                |           |      |       |      |
| 41             | 40 4/16  | 8.9  | 14.9         | 19.8 | 76             | -        | -    | -            | -    | 111            | 110 14/16 | 24.5 | 39.0  | 50.0 |                |           |      |       |      |
| 42             | 41 6/16  | 9.3  | 15.6         | 20.7 | 77             | 76 2/16  | 17.1 | 27.6         | 35.9 | 112            | -         | -    | -     | -    |                |           |      |       |      |
| 43             | 42 9/16  | 9.6  | 16.0         | 21.2 | 78             | 77 5/16  | 17.3 | 27.9         | 36.3 | 113            | 112 1/16  | 24.8 | 39.3  | 50.4 |                |           |      |       |      |
| 44             | 43 12/16 | 9.8  | 16.4         | 21.7 | 79             | 78 7/16  | 17.7 | 28.5         | 37.2 | 114            | 113 3/16  | 25.0 | 39.6  | 50.8 |                |           |      |       |      |
| 45             | 44 14/16 | 10.0 | 16.7         | 22.1 | 80             | 79 10/16 | 17.9 | 28.9         | 37.6 | 115            | 114 6/16  | 25.2 | 39.9  | 51.2 |                |           |      |       |      |
| 46             | -        | -    | -            | -    | 81             | 80 12/16 | 18.1 | 29.2         | 38.0 | 116            | 115 8/16  | 25.6 | 40.5  | 52.0 |                |           |      |       |      |

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Туре

Cut sheet 5 of 10

Scope: Exterior

| Kendo | Μ | Wet | Static | White |
|-------|---|-----|--------|-------|
|-------|---|-----|--------|-------|

Linear Illumination System



### Power Consumption

Tested at full power with PSD Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

|                |          |     |      |      |      |                |          |      |      | High | Effice | acy (HE4       | 48)      |      |      |             |      |                |           |      |      |      |      |
|----------------|----------|-----|------|------|------|----------------|----------|------|------|------|--------|----------------|----------|------|------|-------------|------|----------------|-----------|------|------|------|------|
| Nominal        | Actual   |     | W    | atts |      | Nominal        | Actual   |      | W    | atts |        | Nominal        | Actual   |      | W    | <u>atts</u> |      | Nominal        | Actual    |      | W    | atts |      |
| Length<br>(in) | Length   | LO  | so   | мо   | но   | Length<br>(in) | Length   | LO   | so   | мо   | но     | Length<br>(in) | Length   | LO   | so   | мо          | НО   | Length<br>(in) | Length    | LO   | so   | мо   | НО   |
| 12             | 10 11/16 | 1.7 | 2.5  | 3.5  | 5.7  | 47             | 46 2/16  | 6.9  | 10.7 | 13.3 | 24.7   | 82             | 81 9/16  | 12.5 | 19.9 | 23.9        | 42.2 | 117            | -         | -    | -    | -    | -    |
| 13             | 12 11/16 | 1.7 | 2.5  | 3.5  | 5.7  | 48             | -        |      | -    |      |        | 83             | -        | -    | -    | -           | -    | 118            | 117       | 17.5 | 27.7 | 34.3 | 58.7 |
| 14             | -        |     | -    | -    | -    | 49             | 48 2/16  | 7.1  | 11.2 | 13.9 | 25.4   | 84             | 83 9/16  | 12.8 | 20.3 | 24.5        | 43.1 | 119            | 119       | 17.8 | 28.1 | 34.9 | 59.6 |
| 15             | 14 10/16 | 2.0 | 3.0  | 4.0  | 7.2  | 50             | -        | -    | -    | -    | -      | 85             | -        | -    | -    | -           | -    | 120            | -         | -    | -    | -    | -    |
| 16             | -        |     | -    | -    | -    | 51             | 50 1/16  | 7.4  | 11.7 | 14.5 | 26.3   | 86             | 85 8/16  | 13.1 | 20.8 | 25.1        | 44.1 | 121            | 120 15/16 | 18.1 | 28.6 | 35.5 | 60.5 |
| 17             | 16 10/16 | 2.4 | 3.5  | 4.6  | 8.7  | 52             | -        | -    | -    | -    | -      | 87             | -        | -    | -    | -           | -    | 122            | -         | -    | -    | -    | -    |
| 18             | -        | -   | -    | -    | -    | 53             | 52 1/16  | 7.7  | 12.3 | 15.1 | 27.4   | 88             | 87 8/16  | 13.4 | 21.3 | 25.7        | 45.0 | 123            | 122 15/16 | 18.3 | 29.0 | 36.0 | 62.1 |
| 19             | 18 9/16  | 2.7 | 3.9  | 5.2  | 10.2 | 54             | -        | -    | -    | -    | -      | 89             | -        | -    | -    | -           | -    | 124            | -         | -    | -    | -    | -    |
| 20             | -        | -   | -    | -    | -    | 55             | 54       | 8.0  | 12.9 | 15.7 | 28.5   | 90             | 89 7/16  | 13.7 | 21.7 | 26.3        | 46.0 | 125            | 124 14/16 | 18.4 | 29.5 | 36.6 | 63.8 |
| 21             | 20 9/16  | 3.0 | 4.4  | 5.8  | 11.7 | 56             | 56       | 8.4  | 13.5 | 16.4 | 29.5   | 91             | -        | -    | -    | -           | -    | 126            | -         | -    | -    | -    | -    |
| 22             | -        |     | -    | -    | -    | 57             | -        | -    | -    | -    | -      | 92             | 91 7/16  | 14.0 | 22.1 | 26.9        | 47.0 | 127            | 126 14/16 | 18.6 | 29.9 | 37.2 | 65.4 |
| 23             | 22 8/16  | 3.4 | 4.9  | 6.4  | 13.2 | 58             | 57 15/16 | 8.7  | 14.0 | 17.0 | 30.6   | 93             | -        | -    | -    | -           | -    | 128            | -         | -    | -    | -    | -    |
| 24             | -        | -   | -    | -    | -    | 59             | -        | -    | -    | -    | -      | 94             | 93 6/16  | 14.3 | 22.6 | 27.5        | 47.9 | 129            | 128 13/16 | 18.8 | 30.4 | 37.7 | 67.0 |
| 25             | 24 8/16  | 3.7 | 5.4  | 7.0  | 14.7 | 60             | 59 15/16 | 9.0  | 14.6 | 17.6 | 31.6   | 95             | -        | -    | -    | -           | -    | 130            | -         | -    | -    | -    | -    |
| 26             | -        |     | -    | -    | -    | 61             | -        | -    | -    | -    | -      | 96             | 95 6/16  | 14.4 | 22.8 | 27.8        | 48.4 | 131            | 130 13/16 | 18.9 | 30.8 | 38.3 | 68.6 |
| 27             | 26 7/16  | 4.1 | 5.9  | 7.5  | 15.8 | 62             | 61 14/16 | 9.4  | 15.2 | 18.2 | 32.6   | 97             | -        | -    | -    | -           | -    | 132            | -         | -    | -    | -    | -    |
| 28             | -        |     | -    | -    | -    | 63             | -        | -    | -    | -    | -      | 98             | 97 5/16  | 14.7 | 23.3 | 28.5        | 49.4 | 133            | 132 12/16 | 19.1 | 31.2 | 38.9 | 70.2 |
| 29             | 28 7/16  | 4.4 | 6.4  | 8.1  | 16.8 | 64             | 63 14/16 | 9.7  | 15.6 | 18.7 | 33.7   | 99             | -        | -    | -    | -           | -    | 134            | -         | -    | -    | -    | -    |
| 30             | -        |     | -    | -    | -    | 65             | -        | -    | -    | -    | -      | 100            | 99 5/16  | 15.0 | 23.7 | 29.0        | 50.4 | 135            | 134 12/16 | 19.3 | 31.8 | 39.4 | 70.7 |
| 31             | 30 6/16  | 4.8 | 6.9  | 8.7  | 17.9 | 66             | 65 13/16 | 10.0 | 16.1 | 19.2 | 34.7   | 101            | -        | -    | -    | -           | -    | 136            | -         | -    | -    | -    | -    |
| 32             | -        | -   | -    | -    | -    | 67             | -        | -    | -    | -    | -      | 102            | 101 4/16 | 15.3 | 24.1 | 29.6        | 51.3 | 137            | 136 11/16 | 19.5 | 32.3 | 40.0 | 71.2 |
| 33             | 32 6/16  | 5.0 | 7.2  | 9.0  | 18.5 | 68             | 67 13/16 | 10.4 | 16.5 | 19.8 | 35.7   | 103            | -        | -    | -    | -           | -    | 138            | -         | -    | -    | -    | -    |
| 34             | -        | -   | -    | -    | -    | 69             | -        | -    | -    | -    | -      | 104            | 103 4/16 | 15.6 | 24.6 | 30.2        | 52.3 | 139            | 138 11/16 | 19.8 | 32.8 | 40.6 | 71.8 |
| 35             | 34 5/16  | 5.4 | 7.7  | 9.6  | 19.5 | 70             | 69 12/16 | 10.7 | 17.0 | 20.3 | 36.7   | 105            | -        | -    | -    | -           | -    | 140            | -         | -    | -    | -    | -    |
| 36             | -        | -   | -    | -    | -    | 71             | -        | -    | -    | -    | -      | 106            | 105 3/16 | 15.8 | 25.0 | 30.7        | 53.2 | 141            | 140 10/16 | 20.0 | 33.3 | 41.1 | 72.3 |
| 37             | 36 5/16  | 5.7 | 8.2  | 10.2 | 20.6 | 72             | 71 12/16 | 11.0 | 17.4 | 20.8 | 37.7   | 107            | -        | -    | -    | -           | -    | 142            | -         | -    | -    | -    | -    |
| 38             | -        |     | -    | -    | -    | 73             | -        | -    | -    | -    | -      | 108            | 107 3/16 | 16.1 | 25.5 | 31.3        | 54.2 | 143            | 142 10/16 | 20.2 | 33.9 | 41.7 | 72.8 |
| 39             | 38 4/16  | 6.0 | 8.7  | 10.8 | 21.5 | 74             | 73 11/16 | 11.3 | 17.9 | 21.4 | 38.7   | 109            | -        | -    | -    | -           | -    | 144            | -         | -    | -    | -    |      |
| 40             | -        | -   | -    | -    | -    | 75             | -        |      | -    |      | -      | 110            | 109 2/16 | 16.4 | 25.9 | 31.9        | 55.2 |                |           |      |      |      |      |
| 41             | 40 4/16  | 6.2 | 9.2  | 11.4 | 22.3 | 76             | 75 11/16 | 11.6 | 18.4 | 22.0 | 39.6   | 111            | -        | -    | -    | -           | -    |                |           |      |      |      |      |
| 42             | -        |     | -    | -    | -    | 77             | -        | -    | -    | -    | -      | 112            | 111 2/16 | 16.7 | 26.4 | 32.5        | 56.1 |                |           |      |      |      |      |
| 43             | 42 3/16  | 6.4 | 9.7  | 12.0 | 23.1 | 78             | 77 10/16 | 11.9 | 18.9 | 22.7 | 40.5   | 113            | -        | -    | -    | -           | -    |                |           |      |      |      |      |
| 44             | -        |     | -    | -    | -    | 79             | -        |      | -    | -    | -      | 114            | 113 1/16 | 17.0 | 26.8 | 33.1        | 57.0 |                |           |      |      |      |      |
| 45             | 44 3/16  | 6.7 | 10.2 | 12.6 | 23.9 | 80             | 79 10/16 | 12.2 | 19.4 | 23.3 | 41.4   | 115            | -        | -    | -    | -           | -    |                |           |      |      |      |      |
| 46             | -        | -   | -    | -    | -    | 81             | -        | -    | -    | -    | -      | 116            | 115 1/16 | 17.3 | 27.3 | 33.7        | 57.9 |                |           |      |      |      |      |

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6 | 10

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**Boston Athenaeum Exterior Facade** 

**Pricing Set** 

| <sup>Туре</sup><br>LB |  |
|-----------------------|--|
| Cut sheet 6 of 10     |  |
| Scope: Exterior       |  |

### Kendo M Wet Static White

Linear Illumination System

# Uminii

### **Power Consumption**

Tested at full power with PSD Series power supplies.

Standard Nominal Lengths offered provide minimal shadowing. For alternate lengths, please consult Inside Sales with specific request.

|             |               |       |             | ing           |       | acy (HE64   | •,            |       |             |               |     |
|-------------|---------------|-------|-------------|---------------|-------|-------------|---------------|-------|-------------|---------------|-----|
| Nominal     | Actual Length | Watts | Nominal     | Actual Length | Watts | Nominal     | Actual Length | Watts | Nominal     | Actual Length | Wat |
| Length (in) | Actual tengin | VHO   | Length (in) | Actual tengin | VHO   | Length (in) | Actual tengin | VHO   | Length (in) | Action tengin | VHC |
| 12          | 11 8/16       | 7.6   | 47          | 46 5/16       | 28.2  | 82          | 81 2/16       | 50.4  | 117         | -             | -   |
| 13          | 13            | 7.6   | 48          | 47 13/16      | 29.5  | 83          | 82 10/16      | 51.7  | 118         | 117 8/16      | 72. |
| 14          | -             | -     | 49          | -             | -     | 84          | -             | -     | 119         | 119           | 73. |
| 15          | 14 8/16       | 8.9   | 50          | 49 5/16       | 30.1  | 85          | 84 3/16       | 52.3  | 120         | -             | -   |
| 16          | -             | -     | 51          | 50 14/16      | 31.4  | 86          | 85 11/16      | 53.6  | 121         | 120 8/16      | 74. |
| 17          | 16            | 9.5   | 52          | -             | -     | 87          | -             | -     | 122         | -             | -   |
| 18          | 17 9/16       | 10.7  | 53          | 52 6/16       | 32.0  | 88          | 87 3/16       | 54.2  | 123         | 122           | 74. |
| 19          | -             | -     | 54          | 53 14/16      | 33.3  | 89          | 88 11/16      | 55.5  | 124         | 123 8/16      | 75. |
| 20          | 19 1/16       | 11.4  | 55          | _             | -     | 90          | -             | -     | 125         | -             | -   |
| 21          | 20 9/16       | 12.6  | 56          | 55 6/16       | 34.0  | 91          | 90 3/16       | 56.2  | 126         | 125 1/16      | 76. |
| 22          | -             | -     | 57          | 56 14/16      | 35.2  | 92          | 91 12/16      | 57.5  | 127         | 126 9/16      | 76. |
| 23          | 22 1/16       | 13.2  | 58          | -             | -     | 93          | -             | -     | 128         | -             | -   |
| 24          | 23 9/16       | 14.5  | 59          | 58 7/16       | 36.5  | 94          | 93 4/16       | 58.2  | 129         | 128 1/16      | 77. |
| 25          | -             | -     | 60          | 59 15/16      | 37.2  | 95          | 94 12/16      | 59.5  | 130         | 129 9/16      | 78. |
| 26          | 25 2/16       | 15.1  | 61          | -             | -     | 96          | -             | -     | 131         | -             | -   |
| 27          | 26 10/16      | 16.4  | 62          | 61 7/16       | 38.4  | 97          | 96 4/16       | 60.1  | 132         | 131 2/16      | 78. |
| 28          |               | -     | 63          | 62 15/16      | 39.1  | 98          | 97 13/16      | 61.4  | 133         | 132 10/16     | 79. |
| 29          | 28 2/16       | 17.0  | 64          | -             | -     | 99          | -             | -     | 134         | -             | -   |
| 30          | 29 10/16      | 18.2  | 65          | 64 8/16       | 40.4  | 100         | 99 5/16       | 62.0  | 135         | 134 2/16      | 79. |
| 31          | -             | -     | 66          | 66            | 41.0  | 101         | 100 13/16     | 63.2  | 136         | 135 10/16     | 80. |
| 32          | 31 3/16       | 18.9  | 67          | -             | -     | 102         | -             | -     | 137         | -             | -   |
| 33          | 32 11/16      | 20.1  | 68          | 67 8/16       | 42.3  | 103         | 102 5/16      | 63.8  | 138         | 137 2/16      | 80. |
| 34          | _             | -     | 69          | _             | _     | 104         | 103 13/16     | 65.0  | 139         | 138 11/16     | 81. |
| 35          | 34 3/16       | 20.7  | 70          | 69            | 42.9  | 105         | _             |       | 140         | -             | -   |
| 36          | 35 11/16      | 22.0  | 71          | 70 8/16       | 44.2  | 106         | 105 6/16      | 65.6  | 141         | 140 3/16      | 81. |
| 37          | _             | -     | 72          | _             | _     | 107         | 106 14/16     | 66.8  | 142         | 141 11/16     | 82. |
| 38          | 37 3/16       | 22.6  | 73          | 72 1/16       | 44.9  | 108         | _             |       | 143         | -             | -   |
| 39          | 38 12/16      | 23.9  | 74          | 73 9/16       | 46.1  | 109         | 108 6/16      | 67.4  | 144         | 143 3/16      | 82. |
| 40          | _             | -     | 75          | _             | _     | 110         | 109 14/16     | 68.5  | J           |               | 1   |
| 41          | 40 4/16       | 24.5  | 76          | 75 1/16       | 46.7  | 111         | -             | -     |             |               |     |
| 42          | 41 12/16      | 25.7  | 77          | 76 9/16       | 48.0  | 112         | 111 7/16      | 69.6  |             |               |     |
| 43          | _             | -     | 78          | _             | -     | 113         | 112 15/16     | 70.1  |             |               |     |
| 44          | 43 4/16       | 26.4  | 79          | 78 2/16       | 48.6  | 114         | _             | -     |             |               |     |
| 45          | 44 13/16      | 27.6  | 80          | 79 10/16      | 49.8  | 115         | 114 7/16      | 71.2  |             |               |     |
| 46          |               | _     | 81          | _             | _     | 116         | 115 15/16     | 71.7  | -           |               |     |

### High Efficacy (HE64)

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7 | 10

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**AnnBeha Architects** 

**Boston Athenaeum Exterior Facade** 

Pricing Set

Available Light • 617.944.6800 31 State Street, 6th Floor • Boston MA 02109

| Туре              | LB |
|-------------------|----|
| Cut sheet 7 of 10 |    |
| Scope: Exterior   |    |

### Kendo M Wet Static White

Linear Illumination System

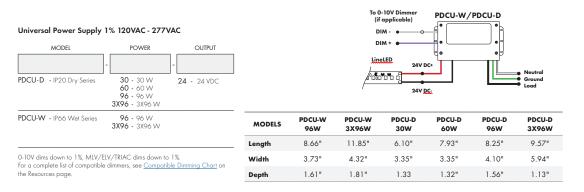
## Iluminii

### **Power Supplies**

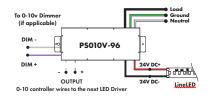
0-1

PS

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

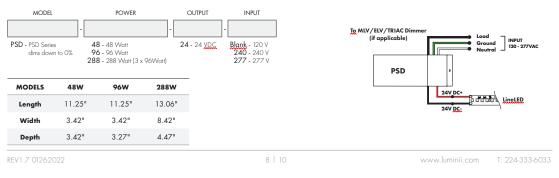


| 0V Dimming Power Supplies 0.1% 120VAC - 277VAC |                                |                         |    |            |                                   |  |
|------------------------------------------------|--------------------------------|-------------------------|----|------------|-----------------------------------|--|
| MC                                             | DDEL                           | POW                     | ER | OUTPUT     | DIMMING                           |  |
|                                                |                                | -                       | -  |            | -                                 |  |
| 010V - 0-10V<br>dims c                         | / Power Supply<br>down to 0.1% | 96 - 96 '<br>3X96 - 3 X |    | 4 - 24 VDC | LIN - Linear<br>LOG - Logarithmic |  |
| MODELS                                         | 96W                            | 3X96                    |    |            |                                   |  |
| Length                                         | 14.40"                         | 15.75"                  |    |            |                                   |  |
| Width                                          | 5.20"                          | 6.62"                   |    |            |                                   |  |
| Depth                                          | 2.60"                          | 4.95"                   |    |            |                                   |  |



PS010V-3X96 To 0-10v Dimmer (if applicable) DIM -INPUT 120 - 277VAC DIM + b d d hand LineLED OUTPUT 4V D 0-10 controller wires to the next LED Driver LineLED -B d d bbb 96W Max per termino 8

#### Magnetic Low Voltage Dimming Power Supplies



### **AnnBeha Architects**

**Boston Athenaeum Exterior Facade** 

### **Pricing Set**

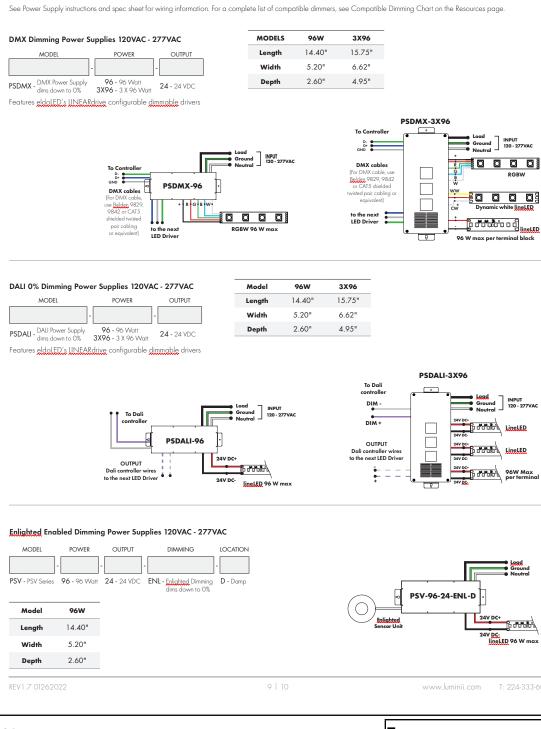
| Type<br>LB        |
|-------------------|
| Cut sheet 8 of 10 |
| Scope: Exterior   |

| Kendo M Wet Static White | Kendo | Μ | Wet | Static | White |
|--------------------------|-------|---|-----|--------|-------|
|--------------------------|-------|---|-----|--------|-------|

Linear Illumination System



### **Power Supplies**

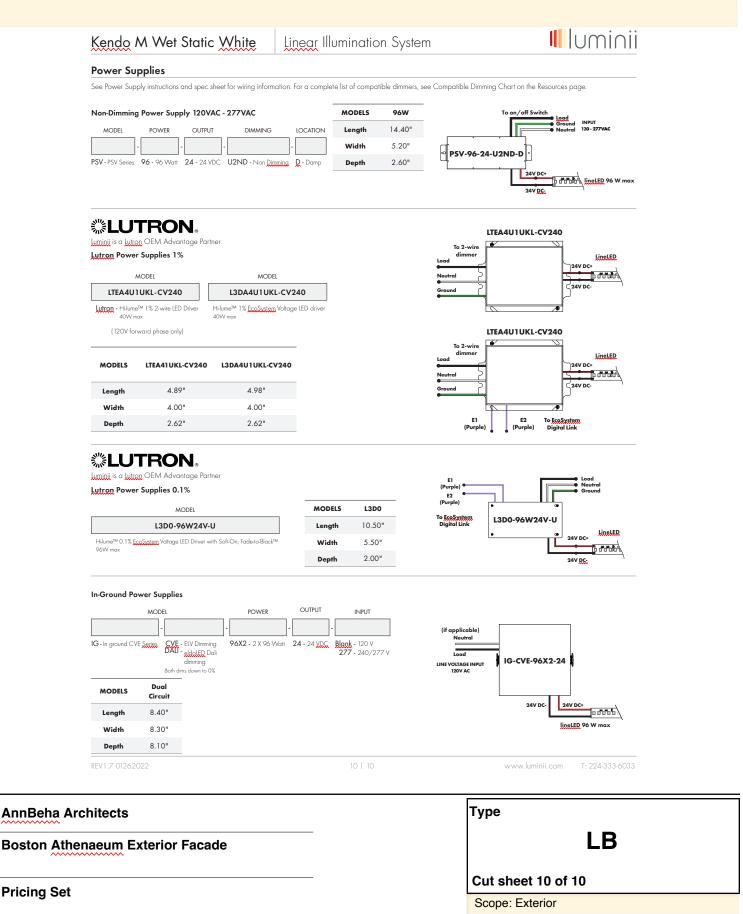


### AnnBeha Architects

**Boston Athenaeum Exterior Facade** 

Pricing Set

| Туре              |
|-------------------|
| LB                |
| Cut sheet 9 of 10 |
| Scope: Exterior   |



| Boston Athenaeum Exter | rior Facade                                                                                                                                                                         | Fixture Schedule<br>Exterior Scope                                                 |                                                                                                                                                                                                                                | Pricing Set                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Туре                   | Manufacturer                                                                                                                                                                        | Description                                                                        | Lamp/Details                                                                                                                                                                                                                   | Scope/Notes/Location              |
| GA                     | Erco<br>35142.023 (Fixture)<br>Provide with:<br>- Recessed Housing<br>- 100% 5° P1 3-3/8" Diameter Luminit<br>Spread Lens<br>- 100% 30x1° P1 3-3/8" Diameter<br>Luminit Spread Lens | 10" Diameter in-ground<br>adjustable uplight with 0-30°<br>tilt and 360° rotation. | 14 W per fixtureVolts: Per EEColor Temp: 3000KCRI: 92Beam Spread: 15°Lumens: 967 per fixtureDim: 0-10V to 1%Mount: Recessed In GroundFinish: Per ArchitectRating: IP68                                                         | Scope: Exterior<br>Notes: 2, 4    |
| GB                     | Bega<br>33528-K3-TBD                                                                                                                                                                | 7" Diameter surface<br>mounted shielded LED<br>fixture with half lid and<br>guard. | 4 W per fixture<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80<br>Lumens: 186 per fixture<br>Dim: 0-10V to 1%<br>Mount: Surface<br>Finish: Per Architect                                                                     | Scope: Exterior<br>Notes: 1, 2, 6 |
| GC                     | B-K Lighting<br>DS-LED-e65-MFL-A9-TBD-12-11-A<br>Provide with:<br>- PP-A18-TBD-XXX-SF (Adjustable<br>Stem Power Pipe with Stability Flange)                                         | Adjustable Accent to uplight trees.                                                | 7 W per fixture<br>Volts: Primary per EE, 12V Secondary<br>Color Temp: 3000K<br>CRI: 80+<br>Beam Spread: Medium Flood<br>Lumens: 406 per fixture<br>Dim: MLV<br>Mount: Power Pipe<br>Finish: Per Architect<br>Rating: Exterior | Scope: Exterior<br>Notes: 1       |

| Boston Athenaeum Exter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ior Facade                                                                                    | Fixture Schedule<br>Exterior Scope                                                          |                                                                                                                                                                                                                                  | Pricing Set                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Туре                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Manufacturer                                                                                  | Description                                                                                 | Lamp/Details                                                                                                                                                                                                                     | Scope/Notes/Location              |
| GD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Heper<br>LW6048.575-US-SLFW-350-830-0<br>-10V-XXX-C1-TBD-ESMA                                 | 7" Wide by 3" Tall wall<br>mounted exterior downlight.                                      | 8 W per fixture<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80+<br>Beam Spread: Special linear, Forward<br>Throw<br>Lumens: 1000 per fixture<br>Dim: 0-10V to 1%<br>Mount: Wall Mount<br>Finish: Per Architect<br>Rating: IP65 | Scope: Exterior<br>Notes: 1, 2, 6 |
| GE<br>Sinter Sinter | Existing                                                                                      | Existing to remain<br>decorative pendant.<br>Refurbish and re-lamp with<br>LED replacement. | 15 W per fixture<br>(3) 5FA19DIM/827<br>Volts: Per EE<br>Color Temp: 2700K<br>CRI: 82<br>Lumens: 800 per lamp<br>Dim: Yes<br>Mount: Pendant<br>Finish: Existing                                                                  | Scope: Exterior                   |
| GF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | B-K Lighting<br>DS-LED-e65-MFL-A9-TBD-12-11-A<br>Provide with necessary mounting<br>hardware. | 2-1/4" Diameter wall<br>mounted adjustable accent<br>fixture to illuminate flags.           | 7 W per fixture<br>Volts: Per EE<br>Color Temp: 3000K<br>CRI: 80<br>Beam Spread: 23°<br>Lumens: 409 per fixture<br>Dim: MLV<br>Mount: Wall Mount<br>Finish: Per Architect                                                        | Scope: Exterior<br>Notes: 1       |

| Boston Athenaeum Exte | rior Facade                                                                                                                                                                           | Fixture Schedule<br>Exterior Scope                                               |                                                                                                                                                                                                                           | Pricing Set                          |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Туре                  | Manufacturer                                                                                                                                                                          | Description                                                                      | Lamp/Details                                                                                                                                                                                                              | Scope/Notes/Location                 |
| LB                    | Luminii<br>KMW-Varies-HE48LO-30K-F-FC-TBD-<br>TBD<br>Provide with:<br>- Appropriately sized dimmable power<br>supply.<br>- BLXX (Blade Louver, finish TBD)<br>- Fixed mounting clips. | 3/4" Wide surface mounted<br>exterior linear strip light to<br>illuminate entry. | 2 W per foot<br>Volts: Primary per EE, 24V Secondary<br>Color Temp: 3000K<br>CRI: 90+<br>Beam Spread: Graze<br>Lumens: 159 per foot<br>Dim: 0-10V to 0.1%<br>Mount: Surface<br>Finish: Per Architect<br>Rating: Wet Rated | Scope: Exterior<br>Notes: 1, 2, 7, 9 |

| Boston A | thenaeum Exterior Facade Fixture Schedule Exterior Scope Pricing S                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gener    | al Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Α        | Contractor shall supply and install a complete, fully functioning lighting system, including but not limited to: mounting hardware and accessories; appropriately sized transformers; power supplies; drivers; lamps; optical accessories; and electrical appurtenances.                                                                                                                                                                                                                                                             |
| В        | Contractor shall be responsible for final fixture counts of all lighting fixtures and accessories, as well as linear fixture run lengths, as shown on Architect's drawings.                                                                                                                                                                                                                                                                                                                                                          |
| С        | Contractor shall be responsible for verifying mounting conditions with mounting locations to ensure compatibility. Contractor shall notify Owner and Architect of any conflicts with all trades prior to the ordering of the equipment. For fixtures where more than one manufacturer is specified, mounting requirements may vary.                                                                                                                                                                                                  |
| D        | Contractor shall verify compliance of all lighting equipment specified in its intended application on this project with all applicable national and local codes, ordinances, regulations and jurisdictions prior to ordering any equipment.                                                                                                                                                                                                                                                                                          |
| E        | Contractor shall supply "Contractor net" unit pricing for each lighting product specified. Unit price shall be for equipment only and shall not include installation or other costs. The unit price supplied shall be guaranteed for the project and valid for additions and deletions of product throughout the duration of the project.                                                                                                                                                                                            |
| F        | All drawings represent visual concepts and suggestions only. Available Light is not qualified to determine structural or electrical suitability and will not assume liability for improper engineering, construction or handling of design concepts.                                                                                                                                                                                                                                                                                 |
| G        | The accompanying drawings and all the ideas, arrangements, designs, and plans indicated thereon or represented thereby are owned by and remain the property of Available Light and have been created and developed for use on and in connection with the specified project. Neither this drawing, nor any such ideas, arrangements, designs, or plans shall be appropriated by or disclosed to any person, firm, or corporation for any use or purpose whatsoever, except by the specific and written permission of Available Light. |
| Н        | Written dimensions on drawings shall have authority over scaled measurements. Contractor shall field verify all dimensions on the job and inform the Architect of any proposed variations from drawings prior to performing the work.                                                                                                                                                                                                                                                                                                |
| I        | Do not scale electrical drawings for exact location of the lighting fixtures. Refer to Architect reflected ceiling plans and other lighting layouts for proper locations of lighting fixtures.                                                                                                                                                                                                                                                                                                                                       |
| J        | Contractor shall not substitute products unless approved in writing by Available Light and/or Architect. Lighting fixture, ballast, driver, power supply, lamp, and/or accessory substitutions shall be formally presented to Available Light no later than fourteen (14) working days prior to bid due date.                                                                                                                                                                                                                        |
|          | All proposed substitute fixtures must:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|          | <ol> <li>Be proven to meet or exceed the standards of quality, design, appearance, and performance as established by the lighting fixture specified by<br/>Available Light. See next note for list of items to be submitted for all substitutions.</li> </ol>                                                                                                                                                                                                                                                                        |
|          | 2) Afford to the owner a significant economic benefit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|          | Contractor shall coordinate changes due to use of approved substitutes with all trades.                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| oston | Athenaeum Exterior Facade                                                                                                                 | Fixture Schedule<br>Exterior Scope                                                                                                                                                                                                                                                                                                                 | Pricing Set                                                                           |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| K     | For a fixture type where a manufacture dimensional criteria, finishes, including                                                          | er is named as equal, the equal shall meet aesthetic criteria of the sp<br>custom finishes; mounting details; and specified modifications.                                                                                                                                                                                                         | pecified fixture, including but not limited to:                                       |
|       | specified product, including but not limit<br>baseline efficacies as measured in lumit<br>temperature (CCT); Duv per Manufacti            | manufacturer is named as equal, the equal shall meet the minimum<br>ited to: regulatory listings; output as measured in delivered lumens;<br>nens delivered per watt; cut-off angle as measured from nadir; LED b<br>urers supporting documentation; dimming and method; five (5) year<br>sted according to IES LM79; and specified modifications. | center beam candle power (CBCP);<br>pinning; color rendering (CRI); color             |
| L     | Contractor shall provide the following it                                                                                                 | tems to the Architect and Available Light for evaluation of proposed                                                                                                                                                                                                                                                                               | substitutions:                                                                        |
|       | 1) A current manufacturer's data sheet                                                                                                    | with luminaire catalog numbers.                                                                                                                                                                                                                                                                                                                    |                                                                                       |
|       | 2) A complete and working sample wire                                                                                                     | ed with cord and plug for 120V operation furnished upon request.                                                                                                                                                                                                                                                                                   |                                                                                       |
|       | photometric report should include TM-3                                                                                                    | e proposed substitute fixture using the same lamp type, wattage, an 30 or CRI documentation with R 1-14 values, tabulated candlepower an independent testing laboratory. The photometric report must refle                                                                                                                                         | r values, a coefficient of utilization table,                                         |
|       | output as measured in delivered lumer<br>angle as measured from nadir; LED bit                                                            | num performance requirements as defined by specified product inclus; center beam candle power (CBCP); baseline efficacies as measu<br>ming; color rendering (CRI); color temperature (CCT); Duv per Mani<br>imum warranty including LED engine and driver; and L70 iumen ma                                                                        | ured in lumens delivered per watt; cut-off<br>ufacturers supporting documentation;    |
|       | 5) The Contractor shall submit a signe affected.                                                                                          | ed document stating that if the proposed substitution is accepted the                                                                                                                                                                                                                                                                              | project schedule will not be negatively                                               |
| М     | Contractor shall provide the following it                                                                                                 | tems to the Architect and Available Light for evaluation of specified f                                                                                                                                                                                                                                                                            | ïxtures:                                                                              |
|       | <ol> <li>Manufacturer's product data sheets<br/>type, lamp quantity and type, photomet<br/>CFM data, and photographic image of</li> </ol> | for each luminaire indicating luminaire type, dimensions, driver/balla<br>tric data (including lumnen output, CRI & TM-30 data), materials, fin<br>luminaire.                                                                                                                                                                                      | ast/power supply/transformer quantity and ishes, accessories, voltage, input wattage, |
|       | <ol> <li>Manufacturer's data sheet for each or<br/>input voltage, input watts, and ballast for</li> </ol>                                 | driver/ballast/power supply/transformer including driver/ballast/powe<br>actor.                                                                                                                                                                                                                                                                    | er supply/transformer type, power factor,                                             |
|       | <ol> <li>Scaled and dimensioned detail plan<br/>type, power connection locations(s), ar</li> </ol>                                        | and elevation drawings of custom and continuous row type luminair nd emergency or separate switching configurations.                                                                                                                                                                                                                               | res including joints, mounting points and                                             |
|       | 4) For custom luminaires, manufacture and operation of the luminaire.                                                                     | er shall perform and submit all engineering calculations as required to                                                                                                                                                                                                                                                                            | o ensure the safe and proper installation                                             |
|       | 5) Dimming Power Supply Compatibilit<br>compatible with dimming systems and                                                               | y Certificates: Signed by driver/ballast/power supply manufacturer c equipment with which they are used.                                                                                                                                                                                                                                           | ertifying that driver/ballast/power supply is                                         |
|       |                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                    |                                                                                       |

6) For all submittals contractor shall submit within 2 weeks of award of bid. All submittals shall have project name and luminaire type clearly shown.

| Boston | Athenaeum Exterior Facade Fixture Schedule Exterior Scope Pricing Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ν      | Electronic devices that generate radio frequency energy must not interfere with other electronic devices and must not be susceptible to interference from other devices. Equipment shall not be an Electromagnetic (EM) polluter or be effected by EM pollution. All relevant equipment shall comply with current EMC standards.                                                                                                                                                                                                       |
| 0      | Unless otherwise specified all downlights (recessed, wallwasher, and adjustable) shall be supplied by the same manufacturer, and all linear fixtures (recessed, pendant, and surface mounted) shall be supplied by the same manufacturer.                                                                                                                                                                                                                                                                                              |
| Р      | Unless otherwise specified, all retrofit LED lamps shall be manufactured by LEDvance (Osram-Sylvania), Philips, GE, Soraa, or Green Creative. All lamps of a given type shall be supplied by the same manufacturer.                                                                                                                                                                                                                                                                                                                    |
| Q      | Unless otherwise specified, all LED drivers shall be manufactured by one of the following: Advance (Philips), LEDvance (Osram Sylavnia), Hatch, EldoLED, or Lutron.                                                                                                                                                                                                                                                                                                                                                                    |
| R      | All fixtures shall be supplied with specified lamp(s). Contractor shall provide an additional 10% replacement lamps (minimum two of each lamp type specified). For fixtures that use replaceable LED modules and drivers rather than lamps, Contractor shall provide an additional 5% (minimum one) of each driver and module type.                                                                                                                                                                                                    |
| S      | Fixture construction and installation shall ensure no light leaks between ceiling trims of recessed lighting equipment and the ceiling plane. For applications in perforated or partially transparent ceilings, fixture construction shall also ensure no light leaks above the ceiling line.                                                                                                                                                                                                                                          |
| Т      | Reflectors, reflector cones, and visible trim of all lighting fixtures shall not be installed until completion of plastering, ceiling tile work, painting, and general cleanup. Reflectors, reflector cones, and visible trim shall be carefully handled to avoid scratching or fingerprinting.                                                                                                                                                                                                                                        |
| U      | At the time of acceptance by the Owner, all lighting fixtures shall have been thoroughly cleaned with materials and methods recommended by the manufacturers, all broken parts shall have been replaced, and all lamps and/or LED modules shall be operative.                                                                                                                                                                                                                                                                          |
| V      | The Owner shall perform regular maintenance on all luminaires in order to ensure expected performance. Fixtures may produce light past their rated life, however, lamps/ballasts/drivers/components must be replaced at or before rated end-of-life for the luminaire to meet minimum photometric performance standards. Neither the Architect nor Available Light shall be held responsible or liable for improper service and maintenance of lighting systems.                                                                       |
| W      | Budget pricing is the cost the Owner should be prepared to pay for a specific luminaire or system. Price includes lamp(s) but does not include freight, tax, or installation costs. Owner level fixture prices were received directly from the manufacturer's agent, or derived by adding a 15% distributor markup and a 15% contractor markup to a Distributor Net price received from the manufacturer's agent, unless otherwise noted. Details regarding the source of individual fixture budget prices are available upon request. |
| X      | Contractor shall supply all low-voltage control data lines and wiring in order to properly network and dim fixtures together per control intent documentation and manufacturer's documentation. Data runs must be properly terminated.                                                                                                                                                                                                                                                                                                 |
| Y      | Due to rapid advances in LED technology, Available Light reserves the right to change lamp or LED module specifications at the time of submittal to another lamp or LED module of equal or lesser cost.                                                                                                                                                                                                                                                                                                                                |
| Proje  | ect Specific Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1      | Final finish of fixture shall be approved in writing by Architect.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2      | Mounting height shall be coordinated with Architect's elevations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Boston | ton Athenaeum Exterior Facade Fixture Schedule Exterior Scope                                                                                                                                                                                                                                                                                                                                           | Pricing Set                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| 3      | <b>3</b> The Base Building Contractor shall install one track fixture per track run per circuit, for the purpoperational.                                                                                                                                                                                                                                                                               | ose of confirming that all tracks are energized and                                                       |
| 4      | 4 Fixture shall be aimed and focused by Contractor under the direction of Available Light.                                                                                                                                                                                                                                                                                                              |                                                                                                           |
| 5      | 5 The Contractor shall provide all ladders and mechanical lifts (i.e scissors lifts, articulating boor focus effort. The number and type of lifts and/or ladders to be pre-approved by Available Light appropriate aim and focus tools including wrenches, gloves, electrical testers, etc., as per induces associated with aiming and focusing shall be included in the bid, including but not limited | Crew shall arrive at aim and focus equipped with stry standards for a theatrical lighting technician. All |
| 6      | 6 Junction boxes and/or conduit that is used to wire fixtures and that is open to view shall be pair                                                                                                                                                                                                                                                                                                    | nted to match adjacent structure.                                                                         |
| 7      | 7 Fixture or track shall be mounted to structure in a manner recommended by the manufacturer Contractor shall be responsible for all materials required to insure a safe and proper pendant i fixtures or track due to use of approved substitutes with all trades. Tracks shall be mounted to causing an asymmetrical load.                                                                            | nstallation. Contractor to coordinate changes in size of                                                  |
| 8      | Prior to the onsite arrival of Available Light, all luminaires shall be installed in the proper position mechanical shutters pulled and beams of light directed straight down. Accessories (spread ler etc.) shall be installed under the supervision of Available Light during the aim and focus period                                                                                                | ses, color filters, screens, gobos, top hats, snoots,                                                     |
| 9      | 9 Remote transformers, power supplies, or drivers shall be located in nearby accessible, conceare recommended ventilation available. As per manufacturer's recommendations, Contractor shall any luminaire and its associated remote control devices. Contractor shall supply manufacturer capacity.                                                                                                    | not exceed the maximum allowable distance between                                                         |
| 10     | <b>0</b> Prior to aim and focus, all DMX fixtures shall be properly addressed per Available Light's spec (i.e. not a local test device).                                                                                                                                                                                                                                                                | fication and tested using the specified control system                                                    |