2. ADDITIONAL INFORMATION

The following additional information describes the rationale behind the scope of work for this project.

1. Membrane Roofing (Johnson Building):

The existing roofing is currently leaking and beyond its life expectancy. The roofing needs to be replaced to keep the building water tight.

2. Clay Tile (McKim Building):

Small portions of the existing clay tile will be removed and reinstalled where it intersects the existing PVC membrane roof of the Johnson Building. This will not have a visual impact on the McKim Building.

3. Slate Shingles (Johnson Building):

Many of the existing slate shingles are damaged and in need of replacement. Slate will be salvaged from the two existing mechanical screen walls to be reused on the rest of the roof. This will ensure an accurate matching slate at all the other roof areas. The screen walls are not visible from the street.

4. Mechanical Screen Walls (Johnson Building):

The slate from the existing screen walls will be salvaged and reused elsewhere on the sloping roof areas. The walls will be re-clad with metal panels or new slate. The screen walls are not visible from the street.

5. Skylights (Johnson Building):

The nine existing skylights are leaking, have cracked glass, and are not thermally efficient. The new skylights will replicate the look, but the glass will be insulated and more thermally efficient.

6. Roof Stair (Johnson Building):

The existing roof is difficult to access for maintenance and repairs. The Boston Public Library proposes a new stair to reach the highest level of the roof from "Roof Areal L". See plans for location. The stair will be painted black and partially visible from the street.

7. Miscellaneous Repairs (Johnson Building):

Other repairs will be made on the roof, but do not have a visual impact. They include new doors, roof hatches, roof drains, lightning protection, metal flashing, and sealant.

3. PHOTO KEY PLAN

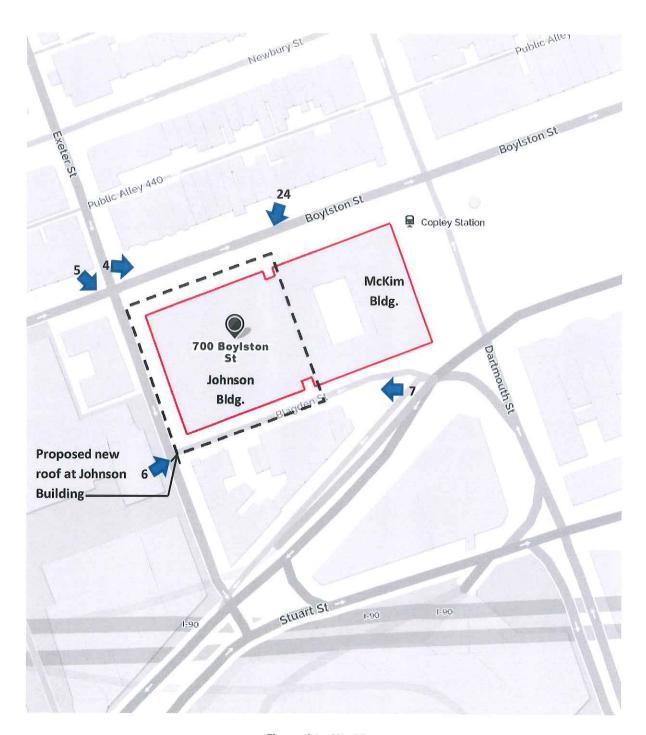


Figure 01: Site Map

4. PHOTOGRAPHS OF EXISTING CONDITIONS



Figure 02: Aerial View

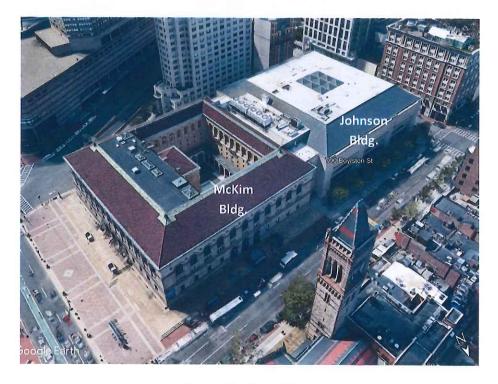


Figure 03: Aerial View



Figure 04: McKim & Johnson Buildings – Boylston Street

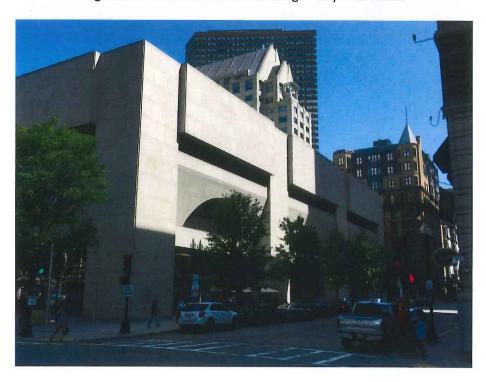


Figure 05: Johnson Building – Exeter Street



Figure 6: Johnson Building – Blagden Street



Figure7: McKim & Johnson Buildings – Blagden Street



Figure 8: Johnson Building – Skylights



Figure 9: Johnson Building - Skylights



Figure 10: Johnson Building – Skylights

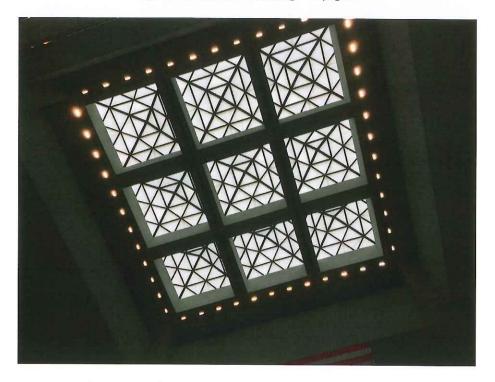


Figure 11: Johnson Building – Skylights at Interior Atrium



Figure 12: Johnson Building – Slate Roof



Figure 13: Johnson Building - Slate Roof



Figure 14: Johnson Building – Slate Screen Wall



Figure 15: Johnson Building – Slate Roof



Figure 16: McKim Building – Tile and PVC Roof Intersection



Figure 17: McKim Building – Tile and PVC Roof Intersection



Figure 18: Johnson Building – Mechanical Equipment to be replaced by separate project.



Figure 19: Johnson Building – Mechanical Equipment to remain



Figure 20: Johnson Building - PVC Roof



Figure 21: Johnson Building – PVC Roof



Figure 22: Johnson Building – Granite Coping



Figure 23: Johnson Building – Granite Coping

5. PROPOSED STAIR



Figure 24: Proposed Stair Location



Figure 25: Proposed Stair



Figure 26: Proposed Stair Location

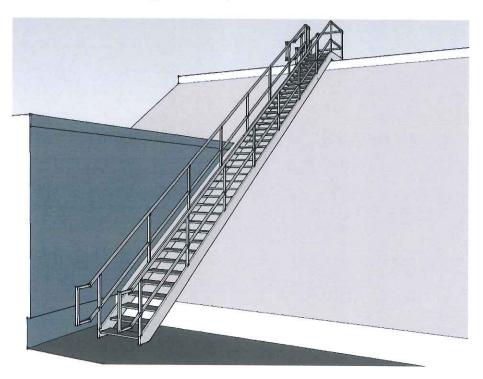
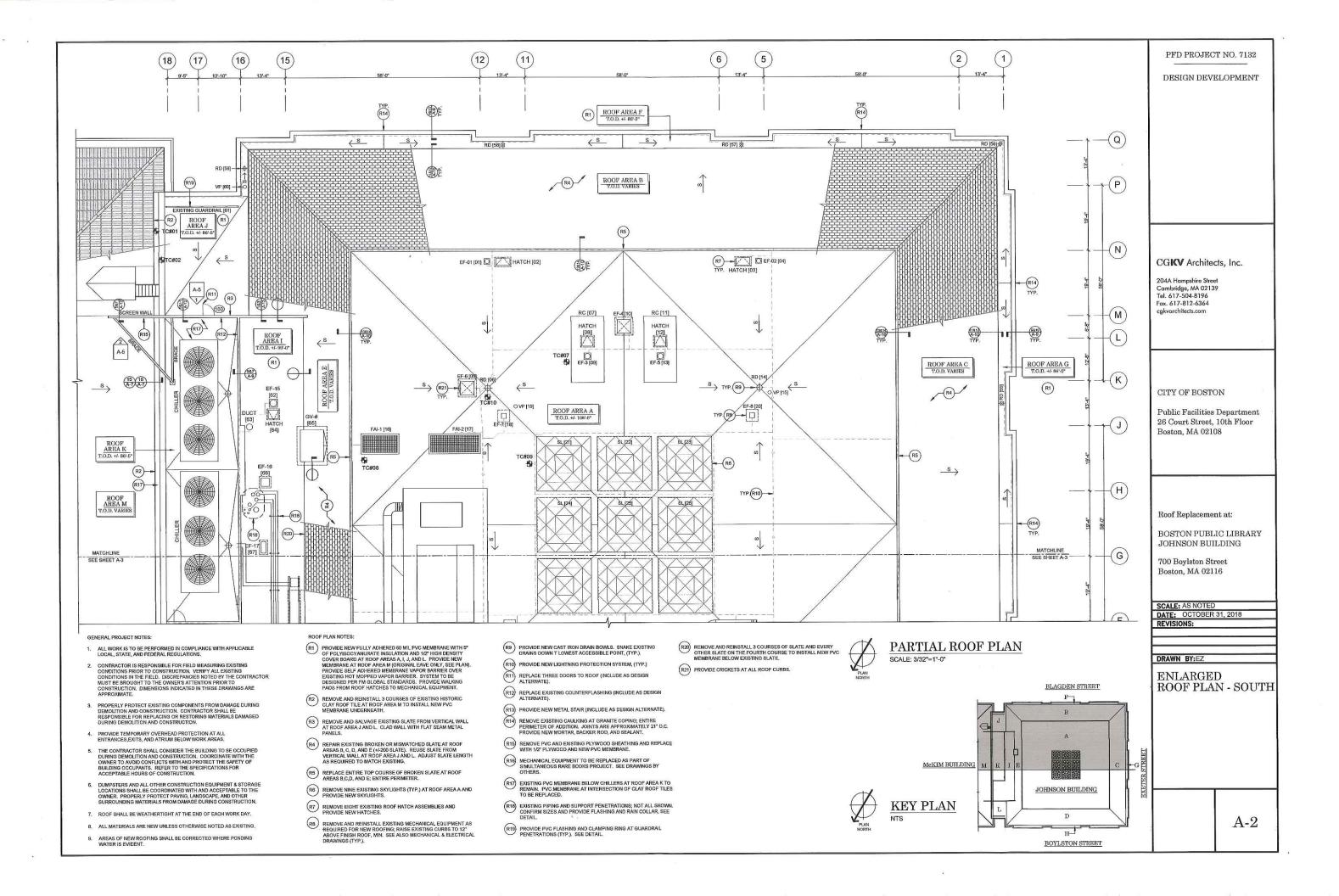
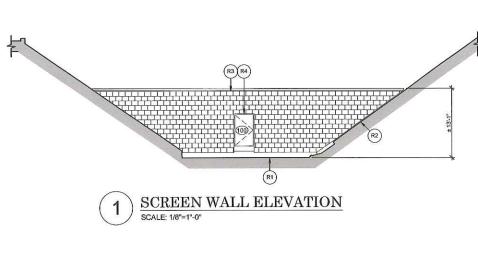
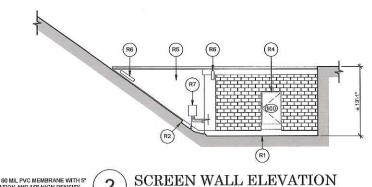


Figure 27: Proposed Stair





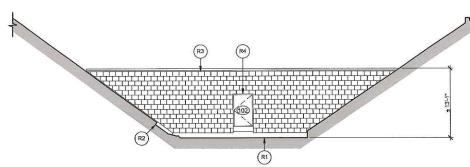


SCALE: 1/8"=1"-0"

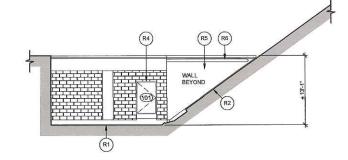
ROOF PLAN NOTES:

- ROUP PLAN NOTIES.

 PROVIDE NEW FULLY ADHERED 60 MIL PVC MEMBRANE WITH 5"
 OF POLYISOCYANURATE INSULATION AND 12" HIGH DENSITY
 COVER BOARD AT ROOF AREAS A, F, G, H, LJ, AND L. PROVIDE
 NEW MEMBRANE AT ROOF AREA M, GORIGINAL EAVE ONLY, SEE
 PLAN), PROVIDE SELF ADHERED MEMBRANE VAPOR BARRIER
 OVER EXISTING HOT MOPPED VAPOR BARRIER, SYSTEM TO BE
 DESIGNED PER FM GLOBAL STANDARDS. PROVIDE WALKING
 PADS FROM ROOF HATCHES TO MECHANICAL EQUIPMENT.
- REMOVE AND REINSTALL 3 COURSES OF EXISTING HISTORIC CLAY ROOF TILE AT ROOF AREA M TO INSTALL NEW PVC MEMBRANE UNDERNEATH.
- (R3) REMOVE AND SALVAGE EXISTING SLATE FROM VERTICAL WALL AT ROOF AREA J AND L. CLAD WALL WITH FLAT SEAM METAL PANELS WITH SIMILAR SHINGLE PATTERN.
- REPLACE THREE DOORS TO ROOF (INCLUDE AS DESIGN ALTERNATE).
- REMOVE PVC AND EXISTING PLYWOOD SHEATHING AND REPLACE WITH 1/2" PLYWOOD AND NEW PVC MEMBRANE.
- (R6) EXISTING STRUCTURAL BRACING.
 (R7) REMOVE AND REINSTALL EXISTING ELECTRICAL ITEMS MOUNTED TO WALL. VERIFY ALL ITEMS IN FIELD.





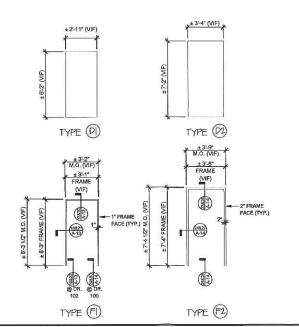


SCREEN WALL ELEVATION SCALE: 1/8"=1"-0"

	DOOR					FRAME			MISC.	COMMENTS
DOOR NUMBER	TYPE	MATERIAL	МОТН	НЕІСНТ	THICKNESS	TYPE	ОЕРТН	MATERIAL	HARDWARE SET#	
100	D1	FRP	2'-11"	6'-2"	1 3/4"	F1	5 3/4"	НМ		
101	D2	FRP	3'-4	7'-2"	1 3/4"	F2	5 3/4"	HM	ĺ	
102	D1	FRP	2'-11"	6'-2"	1 3/4"	F1	5 3/4"	HM		

TYPICAL NOTES:

- 1. PROVIDE NEW FRP DOORS, HOLLOW METAL FRAMES; DOOR HARDWARE; BLOCKING; AND RELATED ITEMS. (TYP.)
- 2. REFER TO FLOOR PLANS FOR DOOR LOCATIONS. (TYP.)
- 3. VERIFY ALL DIMENSIONS AND CONFIGURATIONS IN THE FIELD. (TYP.)



DOOR AND FRAME ELEVATIONS SCALE: 1/4"=1"-0"

DESIGN DEVELOPMENT

PFD PROJECT NO. 7132

CGKV Architects, Inc.

204A Hampshire Street Cambridge, MA 02139 Tel. 617-504-8196 Fax. 617-812-6364 cakvarchitects.com

CITY OF BOSTON

Public Facilities Department 26 Court Street, 10th Floor Boston, MA 02108

Roof Replacement at:

BOSTON PUBLIC LIBRARY JOHNSON BUILDING

700 Boylston Street Boston, MA 02116

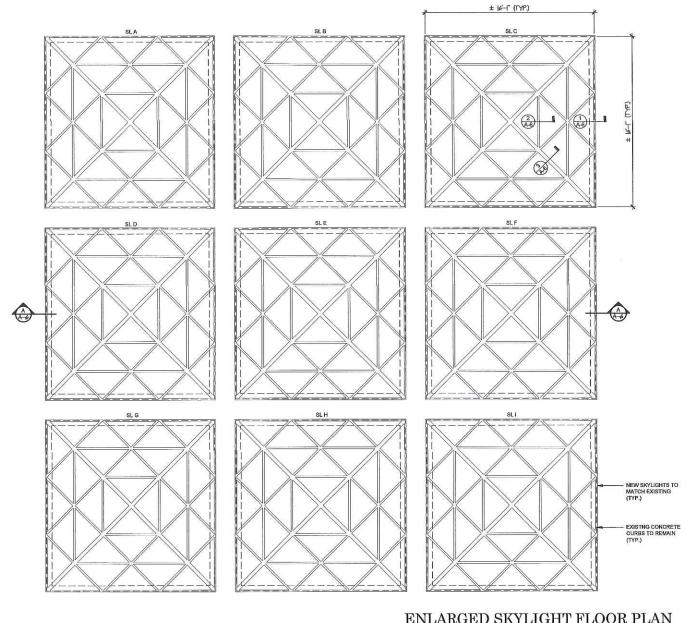
SCALE: AS NOTED

DATE: OCTOBER 31, 2018 REVISIONS:

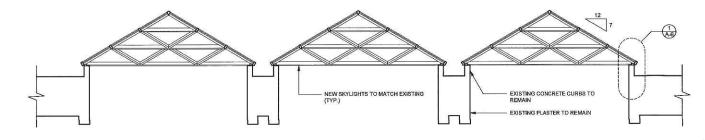
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MECHANICAL SCREEN WALLS / DOOR SCHEDULE

A-5



ENLARGED SKYLIGHT FLOOR PLAN

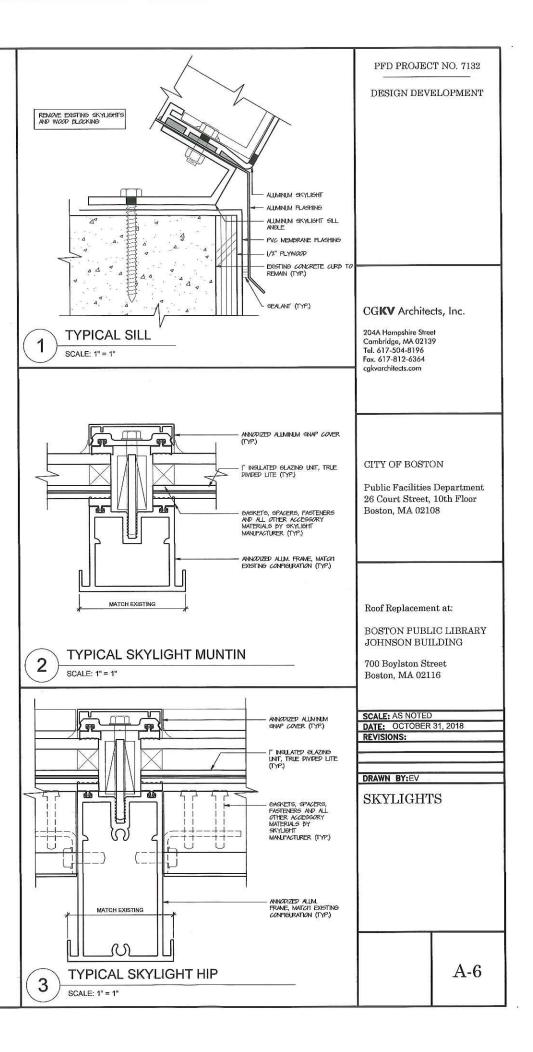


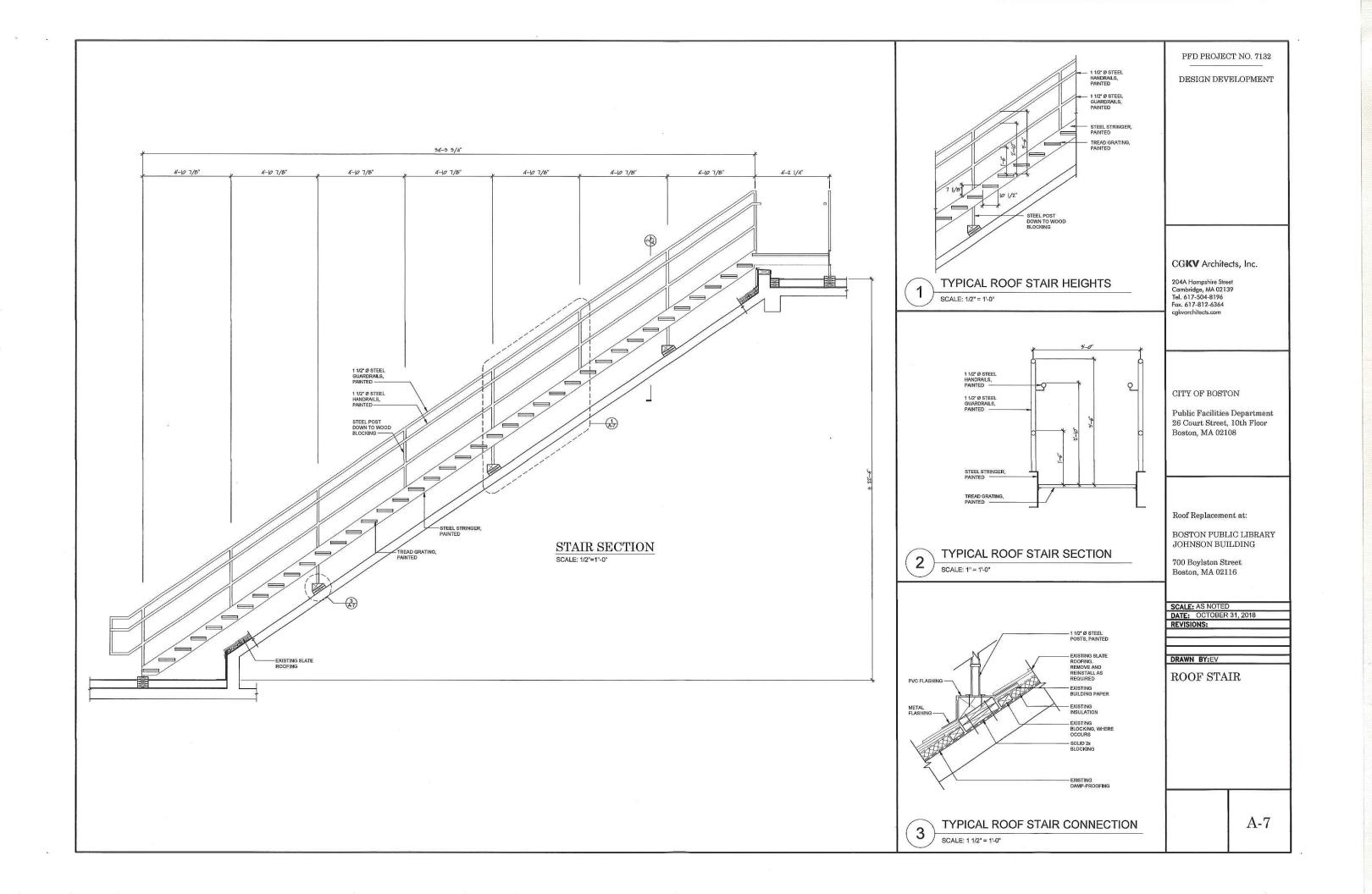
NOTES:

PROVIDE OVERHEAD PROTECTION AT ATRIUM DURING
 CONSTRUCTION OF SKYUGHTS, TYPICAL. ATRIUM SPACE IS TO
 BE FULLY OPERATIONAL DURING CONSTRUCTION. CONTRACTOR
 IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS. SUBMIT
 SAFETY PLAN FOR APPROVAL PRIOR TO CONSTRUCTION.

SKYLIGHT SECTION 'A-A' SCALE: 1/4"=1"-0"

0 1 2 4 5





AUBURN® ENGINEERED SKYLIGHTS



Auburn® Features & Benefits

With its wide range of glazing options and features, Auburn® Engineered skylights give owners flexibility and durability in daylighting. Every Auburn® skylight is the product of hundreds of years of combined daylighting expertise. From quote and specification, to engineering and beyond, you can be confident that Auburn® is the right choice.

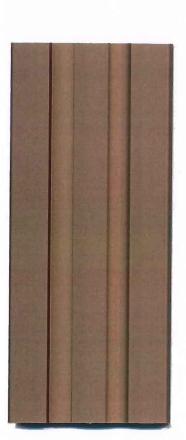


- 1. **Integral screw races** are standard, providing superior anchorage and uniform load transfer.
- 2. **Integral guttering** on all structural members allows for water and condensation control.
- Structural framing members are optimized for L/175 or L/240 deflection limits which lowers cost and weight for most skylights.
- 4. Universal "slope adapters" fit all standard rafters, creating precise slope control regardless of product geometry.
- 5. **Tubular rafters**, which frequently eliminate the need for support tubes, are standard and provide a finished look.
- All Auburn® skylights are engineered and manufactured using state-of-the-art technology which shortens overall lead times and guarantees correct dimensions in a level and plumb environment.





FINISHER OF CHOICE!"



Copper Anodize ANO-630 AE

Proposed skylight color.

Linetec anodize finishes meet the AAMA-611 specification.



Black ANO-305 AE

Extra-Dark Bronze ANO-304 AE



PRODUCT DATA SHEET

SARNAFIL® G 410 ROOF MEMBRANE

_60 __72 __80 _ FELTBACK

Sarnafil G 410 Roof Membrane is a PVC thermoplastic membrane produced with an integral fiberglass mat reinforcement for excellent dimensional stability, guaranteed for thickness, with heat-weldable seams, and a unique lacquer coating applied to the top of the membrane to reduce dirt pick up.

PRODUCT INFORMATION

USES

Sarnafil G 410 Roof Membrane is used in adhered applications with various adhesives over various substrates.

AREAS OF APPLICATION

- New Roofs
- Reroofs
- Flashings

FEATURES / BENEFITS

- Excellent dimensional stability
- Factory applied lacquer coated to reduce dirt pick up
- Hot-air welded seams for long-term performance
- Proven membrane performance
- Guaranteed thickness
- Superior fire resistance

TEST

CODES / APPROVALS

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories of Canada
- ICC Code Compliance ESR 1157
- Miami-Dade County
- Florida Building Code
- NSF/ANSI 347: Platinum Certified

PRODUCT DATA

FORM

COMPOSITION

High-quality, PVC membrane containing ultraviolet light stabilizers, flame retardant, and fiberglass reinforcement with a unique lacquer coating on the top surface.

COLOR*

- Top: Copper Brown, Evergreen, and Lead Gray
- Bottom: Gray

PACKAGING

- 60 mil (1.5 mm) Membrane
 - Bareback: 6.56 ft x 65.6 ft (2 m x 20 m) roll, 168 lbs (76 kg) per roll,

19 rolls per pallet

Coverstrip: 8 in x 100 ft (20 cm x 30 m) roll, 25 lbs (11 kg) per roll,

25 rolls per pallet

Feltback: 6.56 ft x 65.6 ft (2 m x 20 m) roll, 190 lbs (86 kg) per roll,

10 rolls per pallet

72 mil (1.8 mm) Membrane

Bareback: 6.56 ft x 49.2 ft (2 m x 15 m) rolls, 159 lbs (72 kg) per roll,

19 rolls per pallet

Feltback: 6.56 ft x 49.2 ft (2 m x 15 m) rolls, 177 lbs (80 kg) per roll,

10 rolls per pallet

80 mil (2.0 mm) Membrane

Bareback: 6.56 ft x 49.2 ft (2 m x 15 m) rolls, 175 lbs (79 kg) per roll,

19 rolls per pallet

Feltback: 6.56 ft x 49.2 ft (2 m x 15 m) rolls, 193 lbs (88 kg) per roll,

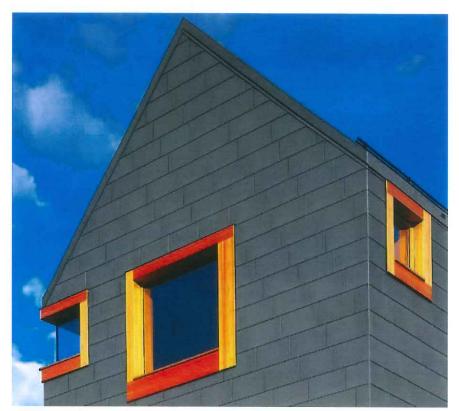
10 rolls per pallet

STORAGE

STORAGE CONDITIONS

Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are unacceptable due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect membrane weldability.





TRUMPF Sachsen GmbH, Neukirch, Germany



Terrace-shaped building, Oswaldgasse, Vienna, Austria



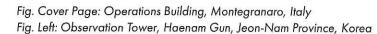
New Lecture Hall, Victoria University, Werribee Campus, Werribee, Australia

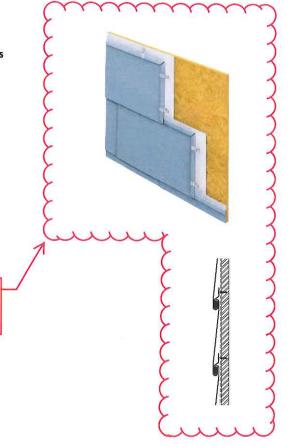
RHEINZINK-Flat-Lock Tiles

The flat overlapping seams of the Flat Lock Tile System provide a subtle gridded look to simple, complex rectilinear or curvilinear facades. By using various sized tiles and changing the layout of the seam lines, the planner has many design options.

- Individual tile sizes
- Perfect for curvilinear surfaces
- Little or no maintenance

Proposed panel system. Not visible from street level.





CGKV Architects, Inc.

BOSTON LANDMARKS COMMISSION APPLICATION TABLE OF CONTENTS

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 - b. A-3: Enlarged Roof Plan North
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