

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA



RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

2 of 4



RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA



RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

4 of 6



AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

5 of 6



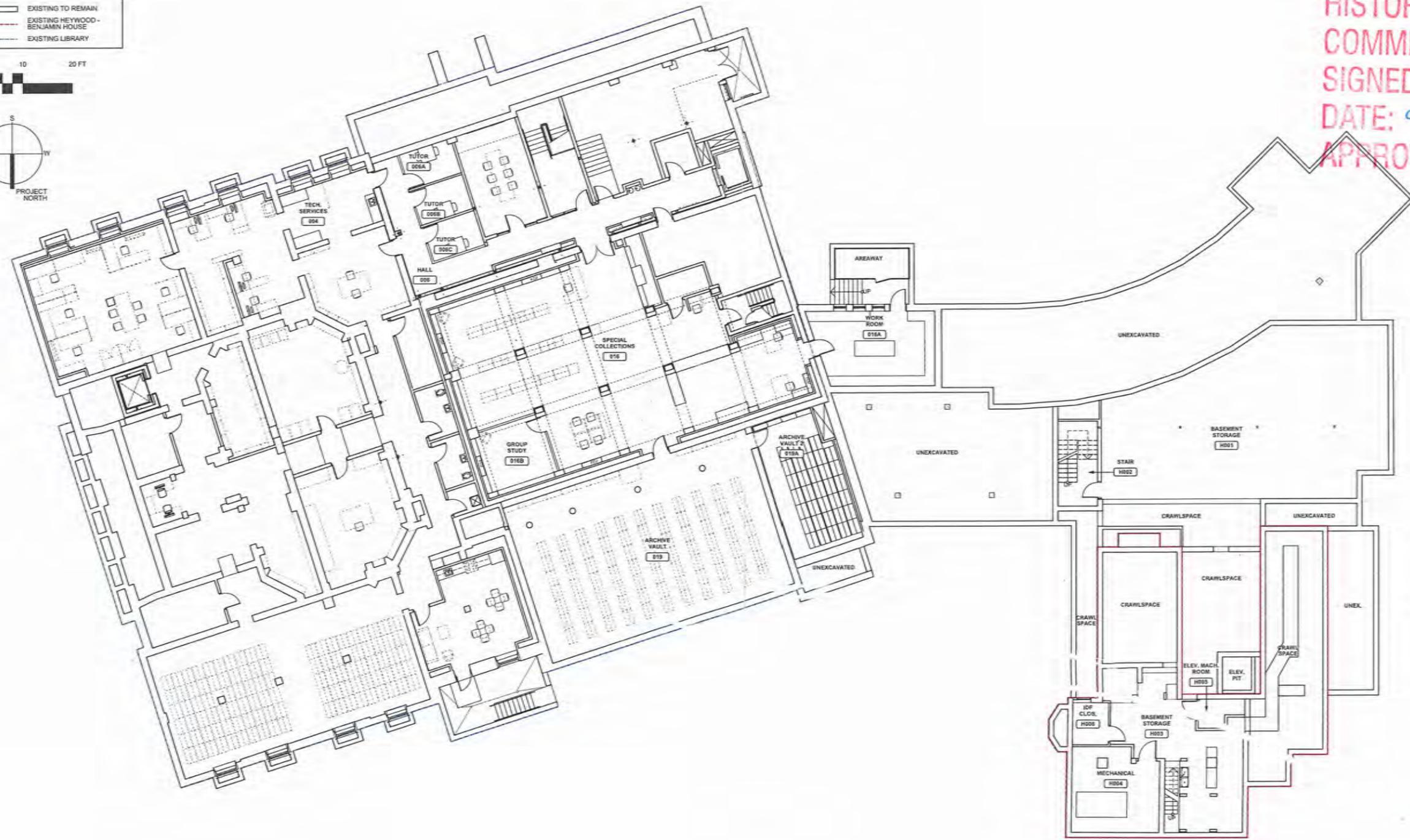
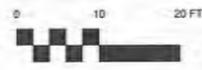
RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

6 of 6

LEGEND:
 [Solid line] NEW WORK
 [Dashed line] EXISTING TO REMAIN
 [Dotted line] EXISTING HEYWOOD-BENJAMIN HOUSE
 [Dashed line] EXISTING LIBRARY



CONCORD
 HISTORIC DISTRICTS
 COMMISSION
 SIGNED: [Signature]
 DATE: 9/5/19
 APPROVED

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
 TOWN OF CONCORD, MA

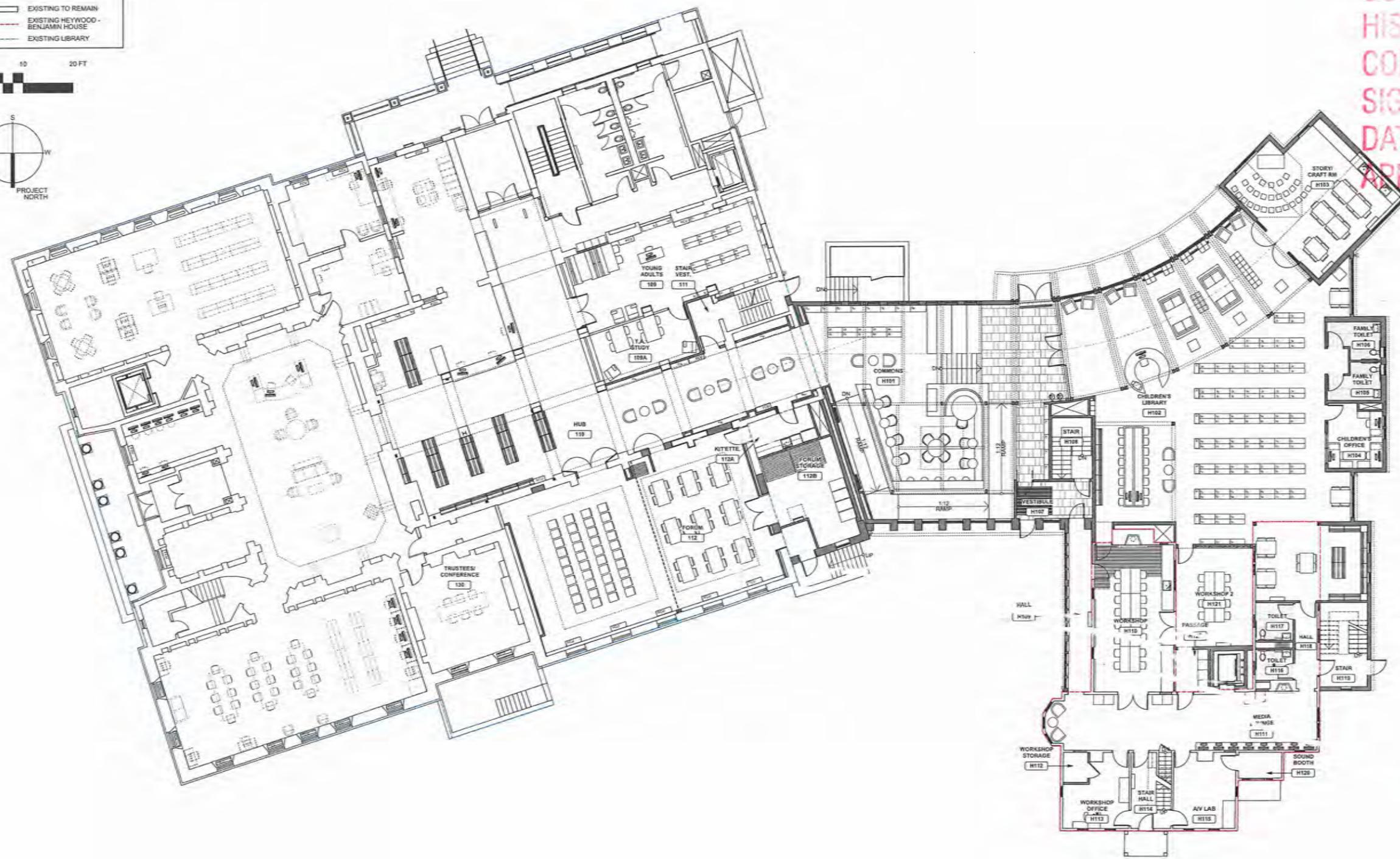
Concord Free Public Library
151 Main Street Expansion
Basement Plan

**JOHNSON
 ROBERTS
 ASSOCIATES INC.**
ARCHITECTS

August 30, 2019 15 PROPERZI WAY
 SOMERVILLE, MA
 02143-3228

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

LEGEND:
NEW WORK
EXISTING TO REMAIN
EXISTING HEYWOOD - BENJAMIN HOUSE
EXISTING LIBRARY



RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

Concord Free Public Library

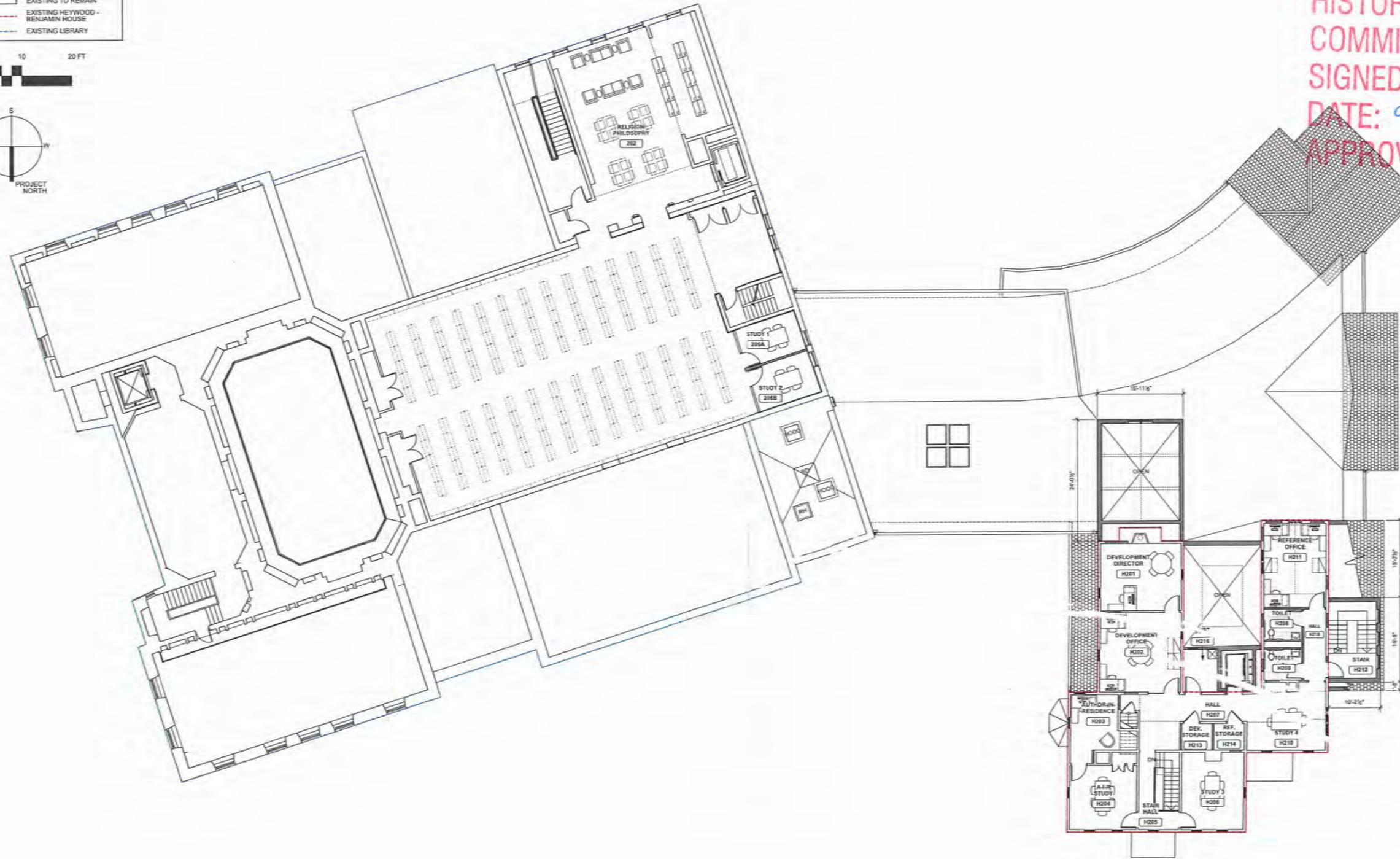
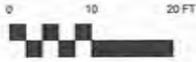
151 Main Street Expansion

Ground Floor Plan

**JOHNSON
ROBERTS
ASSOCIATES INC.**
ARCHITECTS

August 30, 2019 15 PROPERZI WAY
SOMERVILLE, MA
0 2 1 4 3 - 3 2 2 8

LEGEND:
 — NEW WORK
 — EXISTING TO REMAIN
 - - - EXISTING KEYWOOD - BENJAMIN HOUSE
 - - - EXISTING LIBRARY



CONCORD
 HISTORIC DISTRICTS
 COMMISSION
 SIGNED: 
 DATE: 9/5/19
 APPROVED

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
 TOWN OF CONCORD, MA

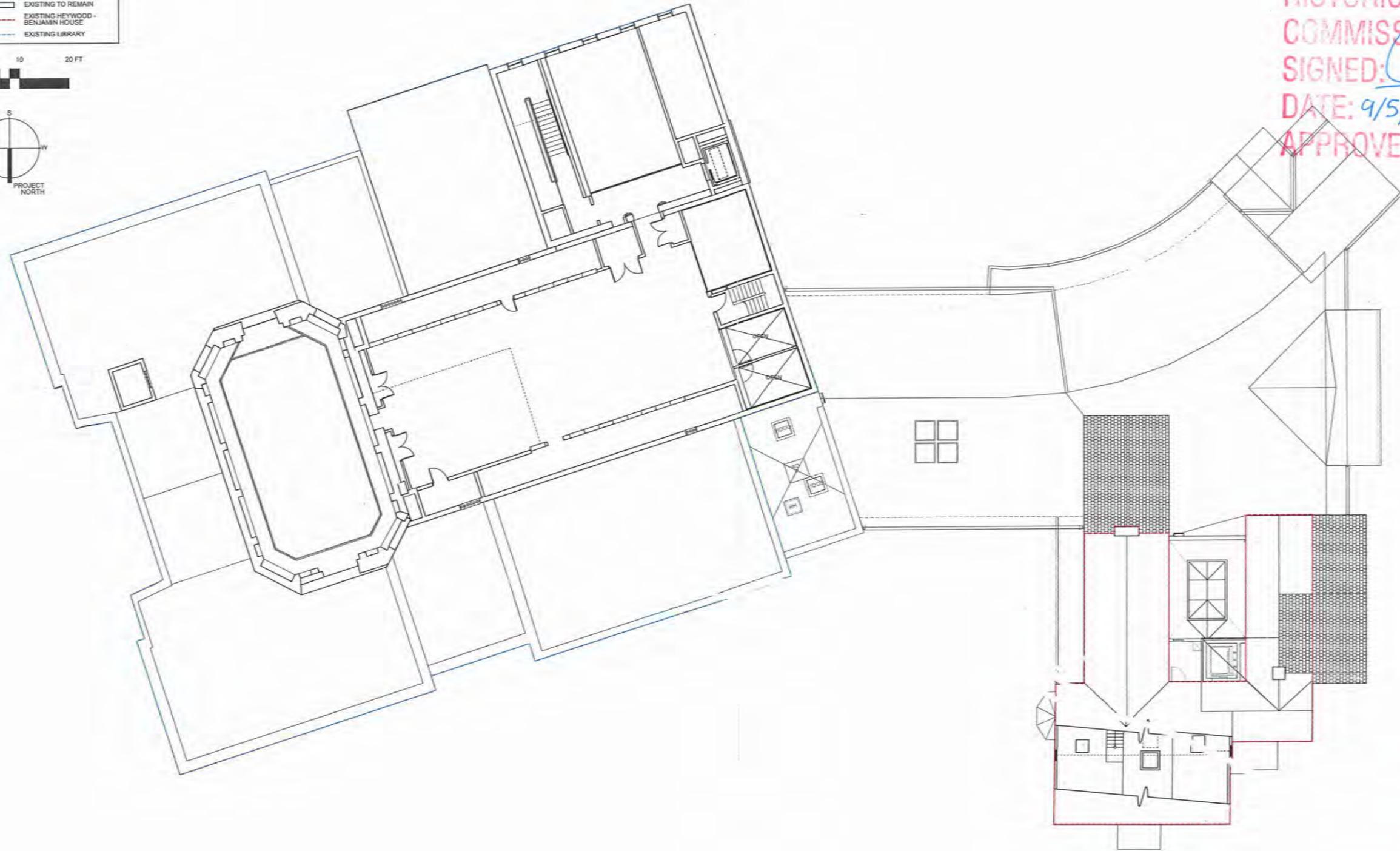
Concord Free Public Library
 151 Main Street Expansion
 Second Floor Plan

**JOHNSON
 ROBERTS
 ASSOCIATES INC.**
 ARCHITECTS

August 30, 2019 15 PROPERZI WAY
 SOMERVILLE, MA
 02143-3228

LEGEND:
 [Solid line] NEW WORK
 [Dashed line] EXISTING TO REMAIN
 [Dotted line] EXISTING HEYWOOD - BENJAMIN HOUSE
 [Blue dashed line] EXISTING LIBRARY

0 10 20 FT



CONCORD
 HISTORIC DISTRICTS
 COMMISSION
 SIGNED:
 DATE: 9/5/19
 APPROVED

RECEIVED

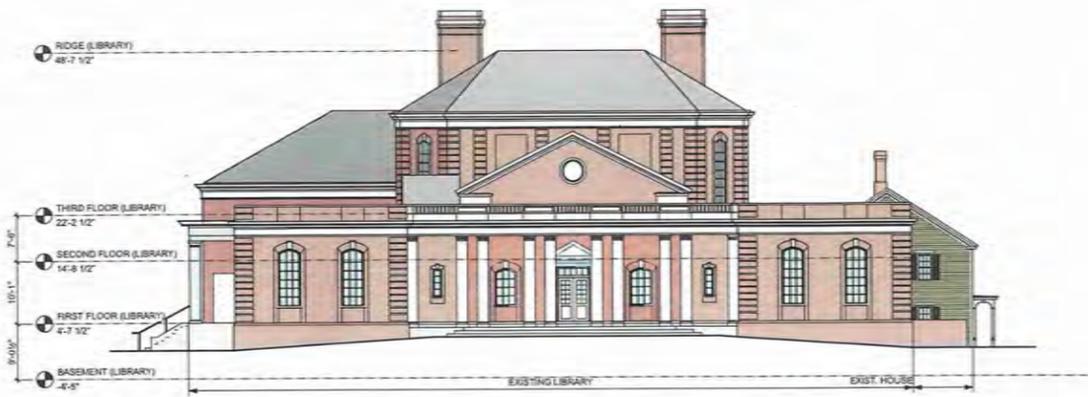
AUG 30 2019

PLANNING & LAND MGT
 TOWN OF CONCORD, MA

Concord Free Public Library
 151 Main Street Expansion
 Third Floor / High Roof Plan

**JOHNSON
 ROBERTS
 ASSOCIATES INC.**
 ARCHITECTS

August 30, 2019 15 PROPERZI WAY
 SOMERVILLE, MA
 02143-3228



Main Street Lawn (East) Exterior Elevation



East Exterior Elevation



Main Street (North) Exterior Elevation

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED



Sudbury Road (South) Exterior Elevation

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA



Garden (South) Exterior Elevation



West Exterior Elevation

Concord Free Public Library
151 Main Street Expansion
Proposed Elevations

0 10 20 FT



August 30, 2019

**JOHNSON
ROBERTS
ASSOCIATES INC.**
ARCHITECTS

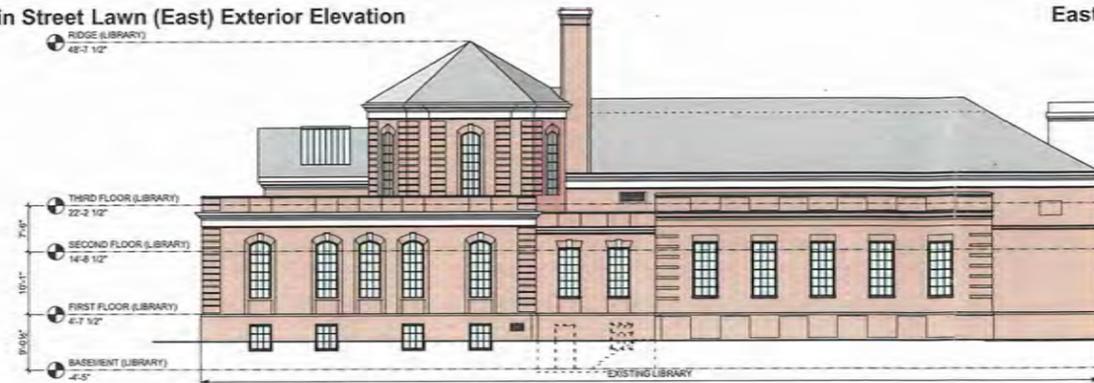
15 PROPERZI WAY
SOMERVILLE, MA
0 2 1 4 3 - 3 2 2 8



Main Street Lawn (East) Exterior Elevation



East Exterior Elevation



Main Street (North) Exterior Elevation

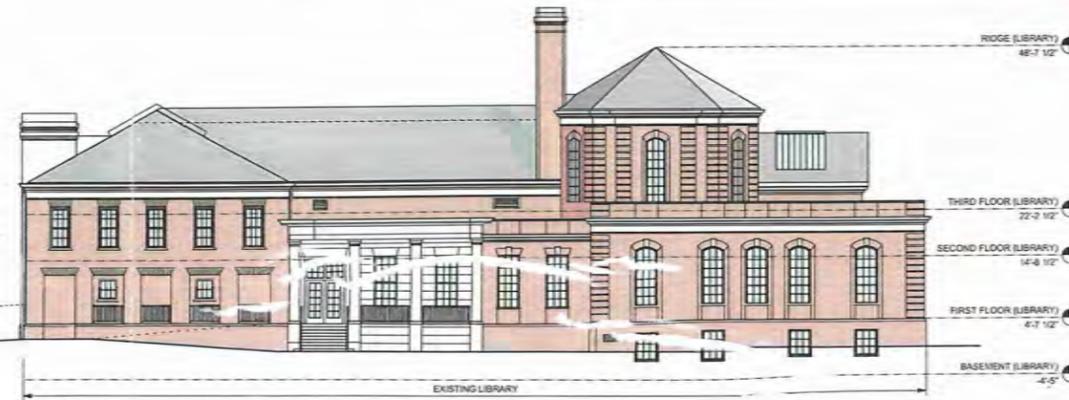


RESTORED HOUSE

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: [Signature]
DATE: 9/5/19
APPROVED



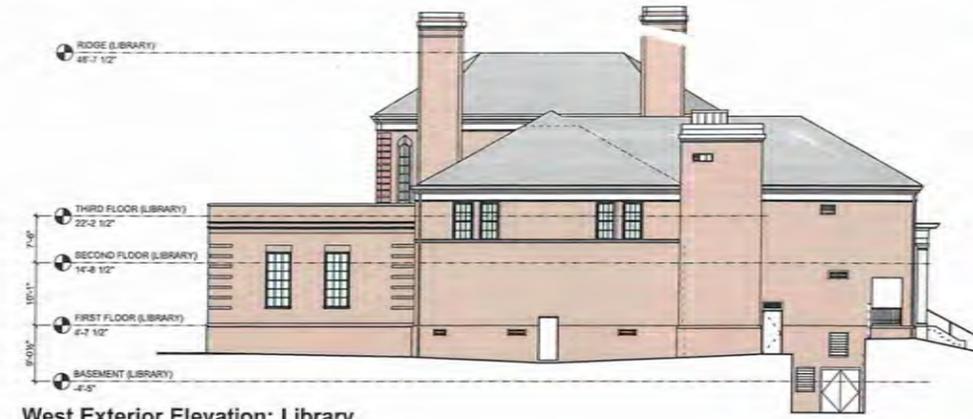
Sudbury Road (South) Exterior Elevation



EXISTING LIBRARY



West Exterior Elevation: House



West Exterior Elevation: Library

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

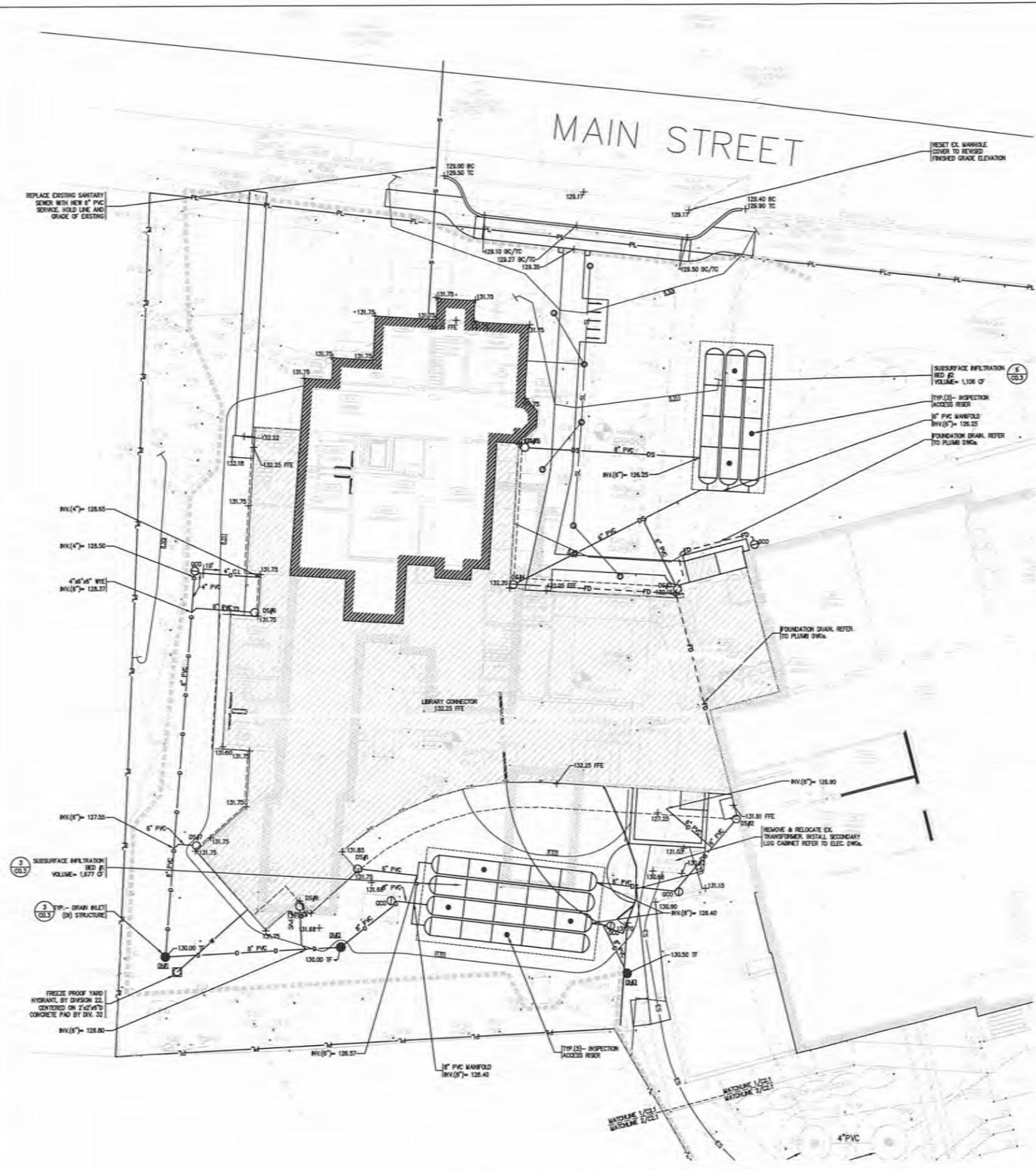
Concord Free Public Library

151 Main Street Expansion

Existing Elevations



August 30, 2019
15 PROPERZI WAY
SOMERVILLE, MA
0 2 1 4 3 - 3 2 2 8

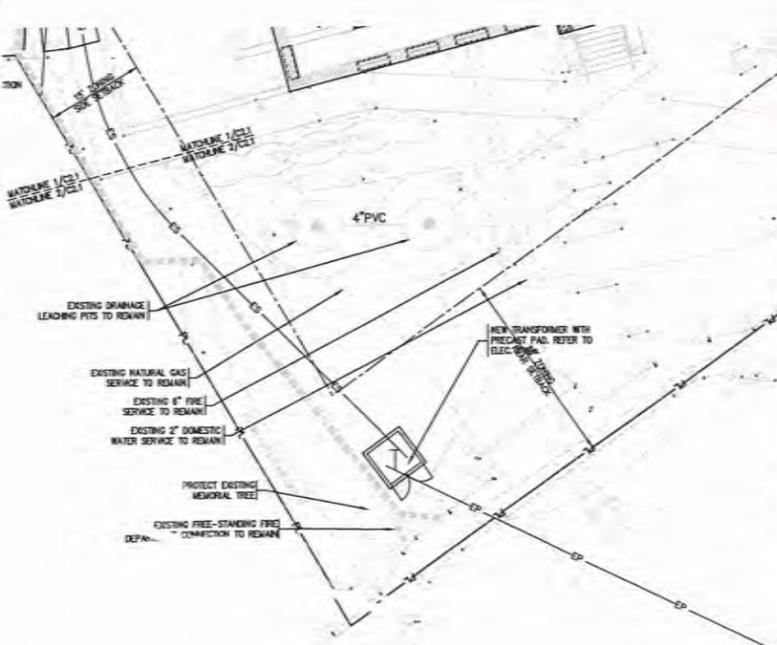


DOWNSPOUTS				
STRUCTURE #	FINISH GRADE	INV. OUT ELEV.	DOWNSPOUT DETAIL	REMARK
DS #1	131.75	127.20	10/CD.2	N/A
DS #2	131.81	127.00	10/CD.2	N/A
DS #3	132.25	128.75	10/CD.2	N/A
DS #4	132.20	128.50	10/CD.2	N/A
DS #5	131.75	128.85	10/CD.2	N/A
DS #6	131.75	128.79	10/CD.2	N/A
DS #7	131.75	127.69	10/CD.2	N/A
DS #8	131.75	127.20	10/CD.2	N/A

CATCH BASINS/DRAIN INLETS					
STRUCTURE #	RM ELEV.	INV. IN ELEV.	INV. IN DETAIL	INV. OUT ELEV.	DETAIL
DI #1	130.00	127.20	127.75 (30\"/>		

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED:
DATE: 9/5/19
APPROVED

2 DRAINAGE STRUCTURE ELEVATION SCHEDULE
SCALE: N.T.S.



2 PARTIAL SITE UTILITY & GRADING PLAN
SCALE: 1" = 10'
NOTE: FURTHER SURVEY INFORMATION IS REQUIRED IN THIS AREA TO COMPLETE THE DESIGN.

1 SITE UTILITY & GRADING PLAN
SCALE: 1" = 10'

**JOHNSON
ROBERTS
ASSOCIATES INC.**

ARCHITECTS

15 PROPERZI WAY
SOMERVILLE, MA
01243 - 3228

GARCIA-GILUSKA-DESIGN INC.
CONSULTING ENGINEER
20 HAZARD ROAD, BRANFORD, CT 06405
203-261-1111



Revisions:

07/23/2019	Site Utility Revisions
08/08/2019	Site Layout Revisions

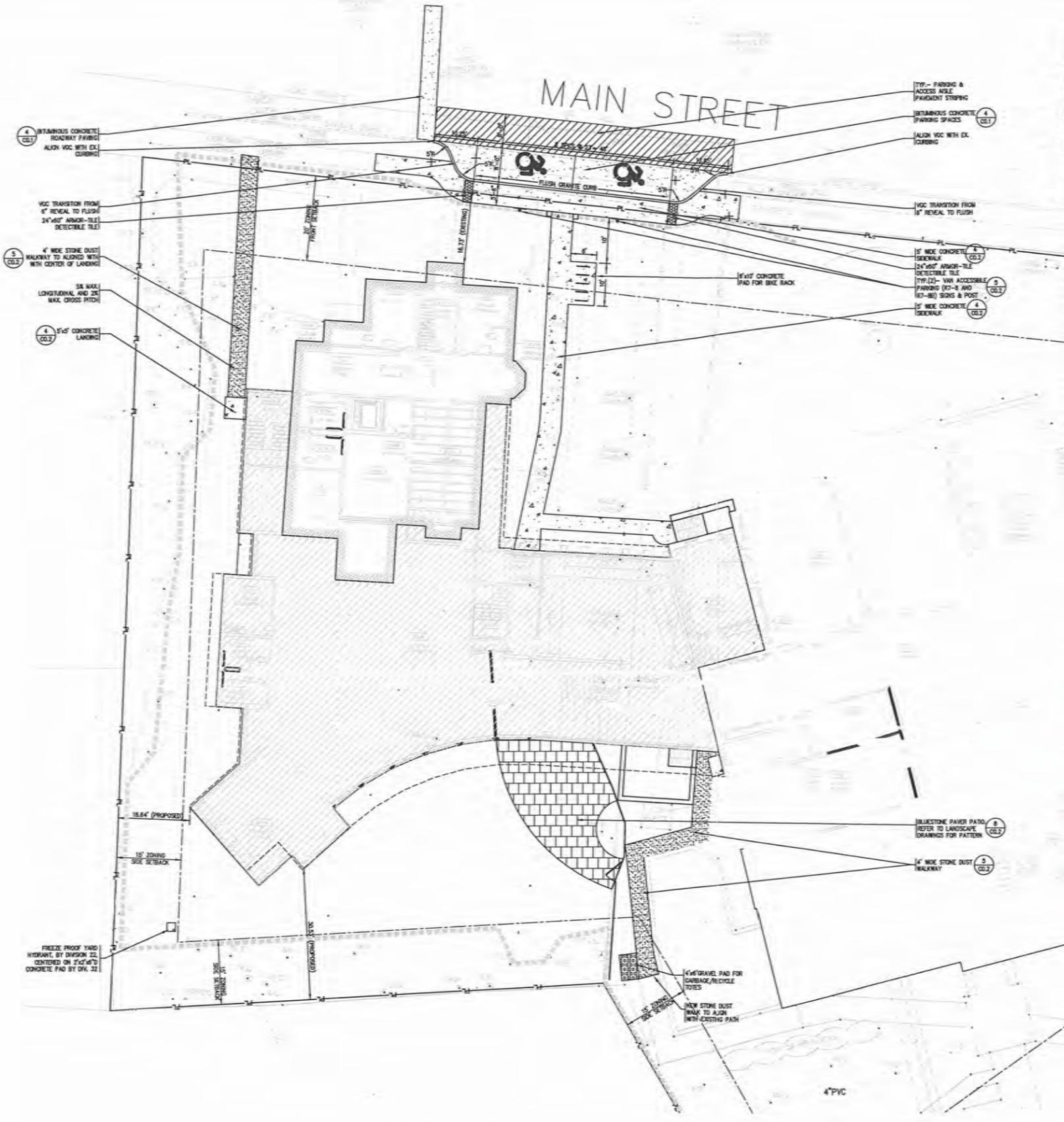
CONCORD
FREE PUBLIC
LIBRARY
EXPANSION
CONCORD, MA

Sheet Title:
Site Utility & Grading Plan

Date: 25-Feb-19 Drawn By: NCK
Scale: AS NOTED Project No.: 1714

RECEIVED
AUG 30 2019
PLANNING & LAND MGT
GRAPHIC SCALE
TOWN OF CONCORD, MA

C2.1



ZONING DIMENSION TABLE - RESIDENCE-B

USE: PUBLIC LIBRARY
MAP: 90 BLOCKS: 786 & 787

	REQUIRED OR MINIMUM	EXISTING	PROPOSED
(A) MINIMUM LOT SIZE (SF)	20,000 SF	76,883 SF	76,883 SF
(B) MINIMUM LOT FRONTAGE (FT)	125 FEET	480 FT	480 FT
(C) FRONTAGE EXCEPTION (FT)	100 FEET	N/A	N/A
(D) MINIMUM LOT WIDTH (FT)	125 FEET	480 FT	480 FT
(E) MINIMUM FRONT YARD SETBACK (FT)	20 FEET	16.73 FT	16.73 FT (EXISTING)
(F) MINIMUM SIDE YARD SETBACK (FT)	15 FEET	31.29 FT	16.64 FT
(G) MINIMUM REAR YARD SETBACK (FT)	30 FEET	28.49 FT	30.53 FT
(H) CORNER CLEARANCE (FT)	10 FEET	2004 FT	2004 FT
(I) MAXIMUM HEIGHT (FT)	35 FEET	464 FT	464 FT (EXISTING)
(J) MAXIMUM LOT COVERAGE (%)	NOT APPLICABLE	N/A	N/A
(K) MAXIMUM FLOOR AREA RATIO	NOT APPLICABLE	N/A	N/A

EXISTING & PROPOSED LOT COVERAGE

	EXISTING		PROPOSED - DESIGN	
	AREA	% LOT COVERAGE	AREA	% LOT COVERAGE
BUILDING (FOOTPRINT)	21,896 SF	29.30%	25,854 SF	33.64%
DRIVES, WALKS (IMPERVIOUS)	6,640 SF	8.89%	8,865 SF	11.53%
TOTAL	28,536 SF	38.19%	34,819 SF	45.38%

2 SITE ZONING TABLE
SCALE: N.T.S.

1 SITE LAYOUT PLAN
SCALE: 1" = 10'

CONCORD HISTORIC DISTRICTS COMMISSION
SIGNED: [Signature]
DATE: 9/5/19
APPROVED

RECEIVED
AUG 30 2019
PLANNING & LAND MGT
TOWN OF CONCORD, MA
GRAPHIC SCALE
1 inch = 10 ft

JOHNSON ROBERTS ASSOCIATES INC.
ARCHITECTS

15 PROPERZI WAY
SOMERVILLE, MA
01243 - 3228

GARCIA-GALUSKA-DESOUZA
CONSULTING ENGINEERS, INC.

[Professional Seal]

Revisions:

07/23/2019	Site Utility Revisions
08/08/2019	Site Layout Revisions

CONCORD FREE PUBLIC LIBRARY EXPANSION
CONCORD, MA

Sheet Title:
Site Layout Plan

Date: 25-Feb-19 Drawn By: NCK
Scale: AS NOTED Project No.: 1714

C1.1



15 PROPERZI WAY
SOMERVILLE, MA
0 2 1 4 3 - 3 2 2 8

617-666-8685

www.johnsonroberts.com

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

August 30, 2019

Application for a Certificate of Appropriateness

Project Narrative & Description of Proposed Work: Concord Free Public Library

The Concord Free Public Library has served as the cultural heart of Concord since its founding in 1873. Nearly 150 years later, the Library continues to thrive but is constrained by limited space in meeting the needs of patrons and serving the community.

In 2013, the Library Corporation purchased the adjacent Heywood-Benjamin House, built circa 1797, with an eye toward linking the House with the Library building. Indeed, William Munroe, the Library founder, had envisioned this property becoming part of the Library shortly after its 1873 founding. Expanding the Library into the Heywood-Benjamin House will provide much-needed space for collaboration and gathering, as well as an enlarged Children's Library. This will also free up space in the existing Library building for a Forum to host events that currently must take place after-hours or disrupt Library programming. The proposed expansion is vital to the Library's ability to continue its role as Concord's cultural hub well into the future.

The proposed work consists of renovations to the existing Library building at 129 Main Street and the adjacent Heywood-Benjamin House at 151 Main Street, and a single-story addition linking the two buildings, referred to as the Link. The work includes the demolition of several recent single-story additions to the rear of the Heywood-Benjamin House, with the historic 18th- and 19th-century two-story wings at the front of the property to remain.

The overall intent of the proposed work is to respect the integrity of both existing historic buildings, while providing a Link that allows both buildings to stand apart. The Link will be subservient to the existing buildings, with fenestration and materials detailed to break up its appearance and keep it in scale with the existing buildings. The Main Street façade of the Link will feature Doric pilasters and an entablature to match those at the Sudbury Road entrance to the Library, and the south façade of the new Children's Library will feature an arcade facing a new Children's Garden.

The addition totals approximately 7,500 square feet above grade, replacing approximately 3,500 square feet of wings and outbuildings to be demolished, most of which appear to have been built in recent decades (see attached Demolition Statement).

The portion of the addition linking the two buildings is intended to be secondary to both structures, allowing the House and Georgian Revival Library to be easily identifiable as two distinct buildings, built in distinct eras and styles, and of different materials and scales. Given the major differences between the existing House and Library buildings, the majority of the addition does not adopt the specific style or details of either. The design of the Link is informed by the historic buildings in its structure (exposed post-and-beam construction as at



15 PROPERZI WAY
SOMERVILLE, MA
02143-3228

617-666-8585

www.johnroberts.com

the House), size (stepping back from the street with the bulk of the addition to the rear of the House), scale (matching the eave height of the House), and materials (clapboard cladding), and details.

Another portion of the addition infills an inside corner of the existing Library on the Main Street side, and is designed to match the existing Library in materials, scale, fenestration and details. This portion of the addition includes exterior steps to provide a second means of egress from the new Forum, with a watertable and railings to match those elsewhere on the building.

Other portions of the addition, notably the extension of the rear kitchen ell of the House and a new code-required second staircase at the west side of the House, are designed to match the existing House. The existing cladding, trim, roofing and fenestration materials and details will be extended into these areas of the addition.



15 PROPERZI WAY
SOMERVILLE, MA
02143-3228

617-666-8585

www.johnsonroberts.com

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED:
DATE:
APPROVED

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

Revised: August 30, 2019

Application for a Certificate of Appropriateness
Materials List: Concord Free Public Library

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 

DATE: 9/5/19

APPROVED

Siding, Trim and Shutters:

- Clapboard siding will be beveled wood clapboards to match the profile and exposure of the existing siding at the House.
- Wood trim and moldings will match the dimensions and profiles of the existing trim and moldings at the House.
- The Main Street façade of the Link includes a Classical entablature and square pilasters, with details and proportions based on the Doric Order to match the existing Sudbury Road entrance of the Library.
- No new shutters are proposed as part of the work, as no shutters are present at the existing Library or portion of the House where the matching addition is proposed. Existing false shutters fixed to the wall will be removed at the west side of the House.

Windows:

- ✓ Windows at the portions of the addition to match the Library and House buildings will be Marvin Ultimate double-hung wood windows with simulated divided lights with internal spacer bars (see cutsheet attached), with moldings, muntins, details and colors to match the existing windows.
- ✓ Windows at the Link will be Marvin Ultimate wood windows, primarily fixed, with some awning and casement windows at the rear and side.
- A grouping of four skylights at the flat roof of the Link will be low-profile unit skylights on curbs at the minimal height recommended by the manufacturer to minimize or their visibility from the street, with DDSS2 by Wasco as the basis-of-design (see attached cutsheet). The skylights are intended to bring natural light into the Commons area, which has mostly north-facing windows along Main Street with only limited transom windows above the periodical stacks along the south wall.
- ✓ A skylight above the Workshop "interior courtyard" will be a low-profile metal-framed pyramidal skylight, with Architectural Aluminum 2000 Skylight System by Kawneer as the basis-of-design. The skylight is intended to bring natural light directly into the Workshop and adjoining office spaces through existing windows that look into the Workshop.



15 PROPERZ| WAY
SOMERVILLE, MA
0 2 1 4 3 - 3 2 2 8

☎ 1 7 - 6 8 8 - 8 5 8 5

www.johnroberts.com

Doors:

- The egress door at the portion of the addition to match the Library building will be a custom wood paneled door with a transom, moldings, details and colors to match the existing doors.
- The egress door at the portion of the addition to match the House will be a custom wood paneled door with paneling, trim, details and colors to match the existing nearby side entry, built circa 1830-40's.
- Doors at the Link are intended for more public use, and will be custom glazed doors with wood stiles and rails.
- No storm doors are proposed.

Masonry:

- Brick at the portion of the addition to match the Library building will be waterstruck to match the color, style, texture and coursing of the existing brick.
- No new chimneys or changes to the existing chimneys are proposed.

Porches, Entries and Landings:

- Proposed work at the existing front porch is limited to painting and lighting (see Exterior Light Fixtures and Paint sections).
- New at-grade accessible entries will be provided at new entrance and egress doors.

Exterior Light Fixtures:

- ✓ Lighting at the walkways will be provided by Flindt Bollard fixtures by Louis Poulsen (see cutsheet included in original submission), which are intended to blend in with the landscaping and direct light downward. The light source will be approximately 3'-0" above grade, and will not be visible from the street.
- ✓ Lighting at the existing front porch of the House will be provided by a Flat Downlight ceiling fixture by Philips (see cutsheet included in original submission), with the light directed downward. The light source will be approximately 9'-0" above grade, and will be hidden from view at the street by the existing trim of the porch.
- ✓ Lighting at the new entry door of the Link and at the new egress door at the addition on the west side of the House will be provided by a Zedge fixture by Targetti (see cutsheet included in original submission), recessed low on the wall with the light directed downward. The light source will be approximately 1'-6" above grade, and will not be visible from the street.



15 PROPERZI WAY
SOMERVILLE, MA
02143-3228

617-666-8585

www.johnsrob.com

Roof:

- Sloped roofs at the portion of the addition to match the House will be wood shakes to match the color, style and exposure of the existing wood shake roofing at the House.
- The sloped roof shingles at the Story/Craft Room and Children's Office/Toilets will be asphalt roofing shingles to match the color and style of the existing asphalt roofing at the Library.
- Flat roofs at the addition will be single-ply membrane roofing, which will not be visible from the street.

Gutters and Downspouts:

- Gutters and downspouts at the portions of the addition to match the Library and House buildings will match the details, sizes and materials of the existing.
- Gutters and downspouts at the Link will be copper, with rectangular downspouts to match the existing at the Library, and gutters detailed to be part of the trim.

Paint:

- Paint at the portion of the addition to match the Library building is limited to trim, doors and windows, and will match the off-white color of the existing Library trim, doors and windows.
- Paint colors at the House, portions of the addition to match the House, and the Link are indicated in the elevations and include:
 - Siding: Benjamin Moore HC-82 Bennington Gray
 - Trim: Benjamin Moore OC-47 Ashwood to match the existing trim at the Library
 - Doors, Window Sashes & Shutters: Benjamin Moore HC-190 Black (formerly PM-9 Black)

Foundation Material and Exposure:

- The foundation will be made of cast-in-place concrete, and will be limited in view.
- The foundation at the portion of the addition to match the Library building will have a brick watertable to match the height and detail of the existing.

Not approved. →

RECEIVED

CONCORD FREE PUBLIC LIBRARY
Concord, Massachusetts

SEP 26 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

SECTION 085200

WOOD WINDOWS

CONCORD
HISTORIC DISTRICTS
COMMISSION

SIGNED: 

DATE: 9/5/19

APPROVED

PART 1 - GENERAL

1.01 GENERAL PROVISIONS

- A. PART A and DIVISION 1 of PART B as listed in the TABLE OF CONTENTS, are hereby made part of this SECTION by reference thereto.
- B. Refer to SECTION 01030, ALTERNATES, for alternates which may affect the work of this SECTION.

1.02 WORK TO BE PERFORMED

A. Furnish and install the following:

- 1. Preglazed and primed fixed and double hung windows, complete with all related items therefor.
- 2. Primed wood mullion assemblies and exterior sills in conjunction with the windows.
- 3. Prefinished aluminum drip strips and flashings in conjunction with windows.
- 4. All required hardware for windows.
- 5. Factory-installed weatherstripping for window members.
- 6. Aluminum-framed insect screens for all operable windows.
- 7. Sealants and tapes for joints between window components, as required.
- 8. All bolts, washers, shims, compressible fillers, and connecting devices, as required for the window installation work.

1.03 RELATED WORK

A. The following related work will be performed under the designated SECTIONS;

- 1. Sealant materials, with compressible back-up beads, for exterior and interior perimeter joints between items furnished hereunder and surrounding dissimilar construction: SECTION 07100, WATERPROOFING, DAMPPROOFING AND CAULKING.
- 2. Applied coatings for interior surfaces of windows and related items furnished hereunder: SECTION 09900, PAINTING.
- 3. Interior wood window stools and wood trim: SECTION 06200, FINISH CARPENTRY.

WOOD WINDOWS
085200 - 1

1.04 SUBMITTALS

A. Submit the following in accordance with the provisions of SECTION 01300, SUBMITTALS:

1. Shop drawings: Complete schedule of all windows, screens, and related items to be provided hereunder; large scale details of all window components, mullions, sills, screens, and related items to be provided hereunder, indicating sizes, thicknesses, and types of materials; complete glazing details; and complete installation details, indicating proposed methods of anchorage; coordinated with the actual conditions, and indicating field dimensions taken at each opening.
2. Samples:
 - a. Corner composite section containing typical casement sash, frame, and anchorage; and preglazed with specified type and thickness of glass.
3. Warranties:
 - a. Window manufacturer's written and signed warranty covering defects in materials and manufacturing workmanship for a period of at least ten (10) years from date of completion of the installation and acceptance by the Architect. The warranty shall state that all parts used in the manufacture of the windows, as herein specified for the project, shall be available for the ten-year warranty period. The warranty shall further state that the manufacturer will provide all labor and materials required for the replacement of defective work at the project.
 - b. Insulating glass manufacturer's written standard SIGMA guarantee, covering failures in the insulating glass for a period of ten (10) years from date of manufacture, said date being as factory-stamped within the glass unit.

B. Do not order or deliver any materials until all submittals, required hereunder, have been received and approved by the Architect.

1.05 REFERENCE STANDARDS AND SPECIFICATIONS

A. Comply with the applicable portions of the following:

1. SIGMA 70-7-1 Glazing Recommendations, current edition, and specific recommendations of the insulating glass manufacturer, as required to retain the specified guarantee for glass.
2. American National Standard Institute/National Wood Window and Door Association (ANSI/NWWDA) Performance Standard I.S.2, Grade 60, and Wood Preservative Specification I.S.4.
3. Screen Manufacturers Association (SMA) 1004 Specifications for Aluminum Tubular Frame Screen for Windows.
4. American Society of Testing Materials (ASTM) tests and specifications D-3310, E-283, E-330, E-331, E-547, E-774, and F-588.
5. Federal Housing Administration (FHA) Performance Requirements for Wood Windows.

PART 2 - PRODUCTS

2.01 WINDOWS AND RELATED MATERIALS

A. Manufacture and type:

1. Fixed and operable windows and related items: Marvin Ultimate Windows meeting or exceeding or specified materials and performance requirements.

B. Performance requirements for all windows and related items, when glazed: Meeting or exceeding preliminary loading, air infiltration, water infiltration, uniform load deflection, and physical load, requirements for ANSI/NWWDA I.S.2 Grade 40 windows, and ASTM tests E-283, E-330, E-331, E-547, and F-588.

C. Materials:

1. Wood members: Solid, vertical grain Douglas Fir, dried to a moisture content of 6 to 12 percent before fabrication, and treated with a toxic water-repellent preservative after machining in accordance with ANSI/NWWDA I.S.4.
 - a. Douglas Fir Grade: Vertical Grain, Superior Select, A & BTR.
 2. Hardware for single-hung windows: Sash lifts, rail locks, concealed spiral spring balances, of types, materials, and finishes as standard with the specified manufacturers.
 - a. Provide operation limit blocks on both sides of the operable sash, for all single-hung windows on the unless otherwise noted on Drawings, attached to the jamb rails to prevent windows from operating more than six inches or as determined by the Architect in the field.
 3. Glass: Clear quality float glass, complying with ASTM C-1036, low E-coated, double-light sealed insulating glass, 5/8-inch thick, as manufactured by Pittsburgh Plate Glass, Guardian Industries, LOF, or equal, bearing the standard SIGMA 10-year warranty for all insulating glass.
 4. Glazing materials: Wet-glazing method, as standard with the manufacturer.
 5. Weatherstripping: Of types and materials as standard with the window manufacturer, applied to all four sides of sash and frames.
 6. Screens: Black vinyl coated 18/16 mesh fiberglass screen cloth, complying with Federal Specification L-S-125B, set in aluminum frames prefinished in champagne color baked enamel, extending for the full height of all operating sash, applied to the interior with spring-loaded hardware.
 7. Simulated Divided Lites: Vertical Grain Douglas Fir muntins in profiles and sizes to match existing windows, where indicated in the Drawings, with internal spacer bars, adhered to glass with closed-cell copolymer acrylic foam tape.
- #### D. Construction: Manufacturer's standard construction, with custom fabricated segments where required, as indicated on the approved shop drawings.
1. Integral Reinforcing: Provide integral, additional reinforcing for larger spans as required by the manufacturer to meet the design loads, for the size units shown

on the Drawings. Integral reinforcing shall be cold-rolled galvanized steel, fitted to the wood frames, and/or between mullioned units, with minimal visual impact to the sirtelines and overall mullion widths.

PART 3 - EXECUTION

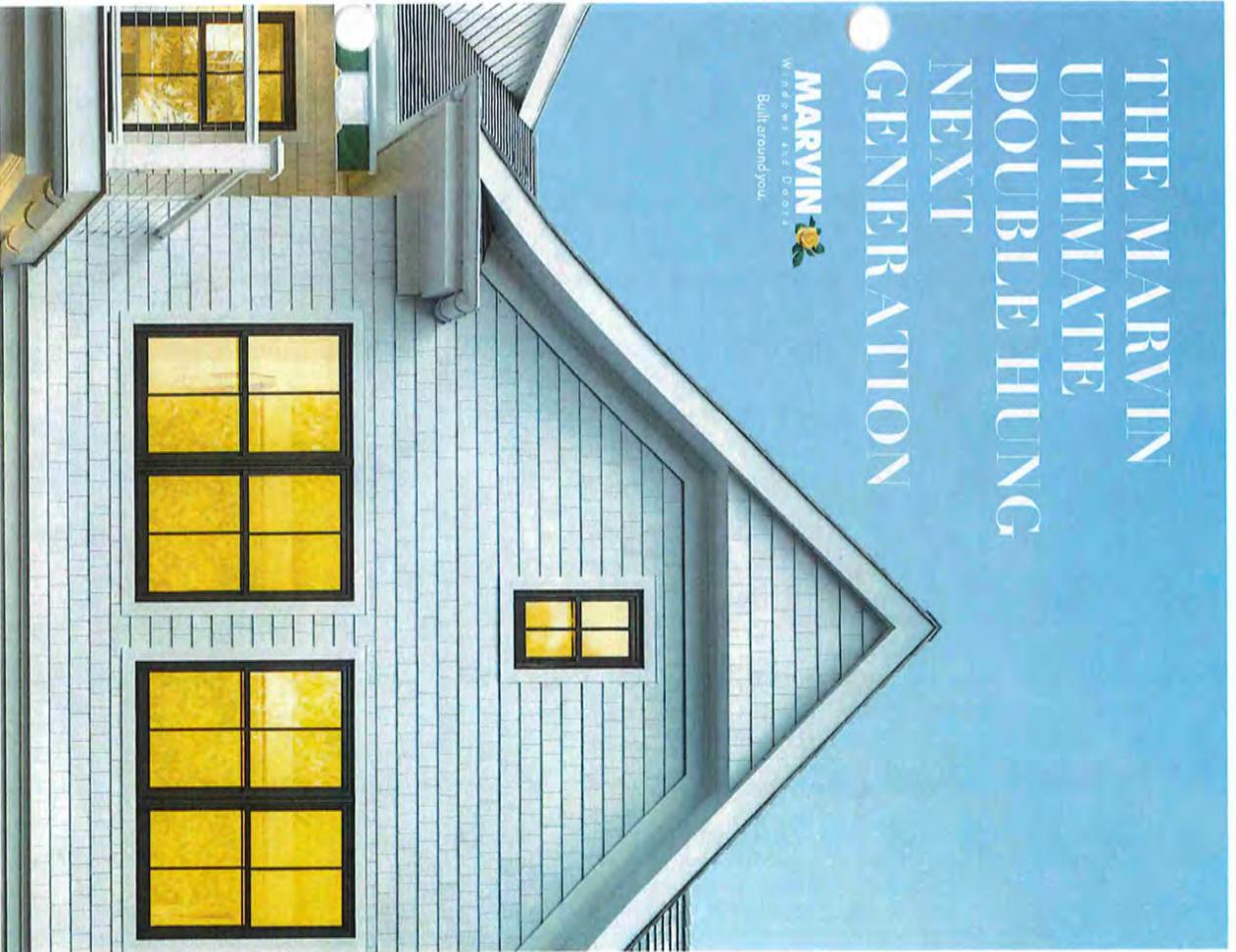
3.01 ERECTION OF WINDOWS AND RELATED ITEMS

- A. Coordinate the delivery and installation of items to be furnished hereunder with the work of the various trades responsible for furnishing and installing interfacing work and schedule the work of this SECTION in a manner which will not delay the work of such trades.
- B. Prior to commencing the installation work, carefully check conditions of all openings with specific regard for the most appropriate types of anchorage to be used, and for other characteristics as they would affect the window installation.
- C. Perform the erection work in strict accordance with the approved shop drawings, and with the window manufacturer's specific recommendations.
- D. Take special care to install all vertical components to true plumb line; and all horizontal components oriented to verticals at right angles, and in true horizontal line. Adjust supporting connections as required to permit necessary relative motion between components.
- E. Check all glazing and ensure that perimeter of each light is free from pointed pressure which might cause cracking or other damage to the glass. Inspect wet glazing materials, and repair any damage thereto, incurred in the shipping, handling, and installation operations, ensuring that all gaskets are in a completely watertight condition before completing the installation work. Do not install any glass units which have depressed surface planes, or which contain other visual defects.
- F. After erection, check each sash and operable hardware, and make all necessary adjustments to ensure a smooth traverse, free from binding, rattle, and with uniform tight contact with the frame weatherstripping around the entire perimeter.
- G. Clean all surfaces free from dirt, sealants, erection marks, and foreign matter. Remove labels from glass and perform initial cleaning thereon.
- H. Remove all rubbish and debris caused by the work of this SECTION.

END OF SECTION

THE MARVIN
ULTIMATE
DOUBLE HUNG
NEXT
GENERATION

MARVIN
Windows and Doors
Built around you.



CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

PLANNING & LAND MGT
TOWN OF CONCORD, MA

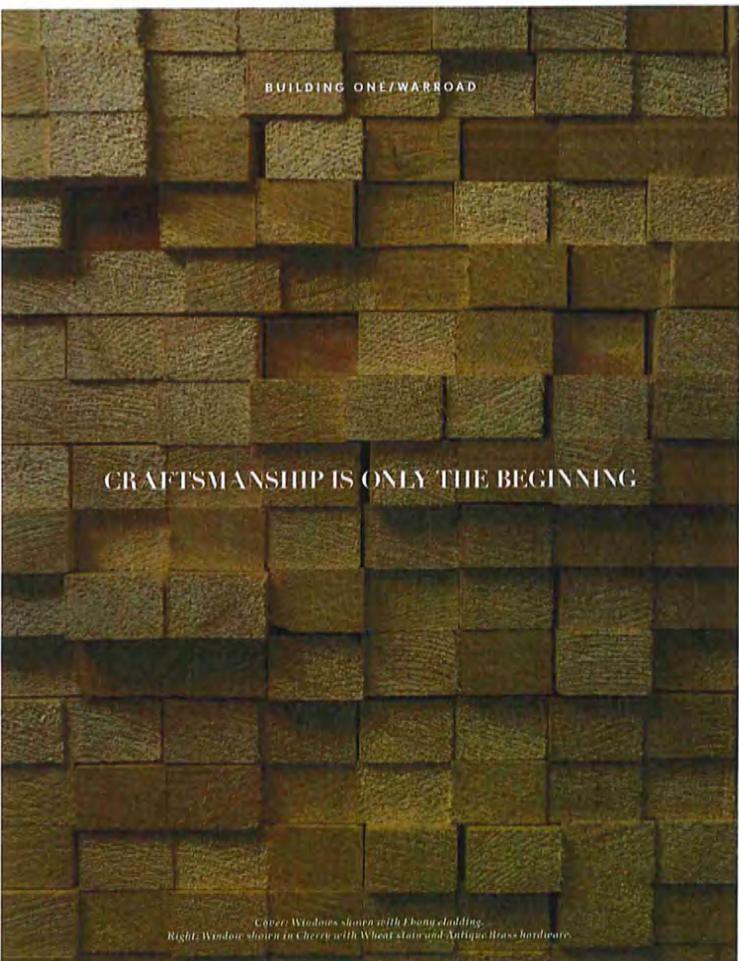
AUG 30 2019

RECEIVED

BUILDING ONE/WARROAD

CRAFTSMANSHIP IS ONLY THE BEGINNING

Center Windows shown with Ebony glazing.
Right Window shown in Cherry with Wheat stain and Antique Brass hardware.



ENDLESS DESIGN POSSIBILITIES.



Windows shown in Stone White exterior cladding

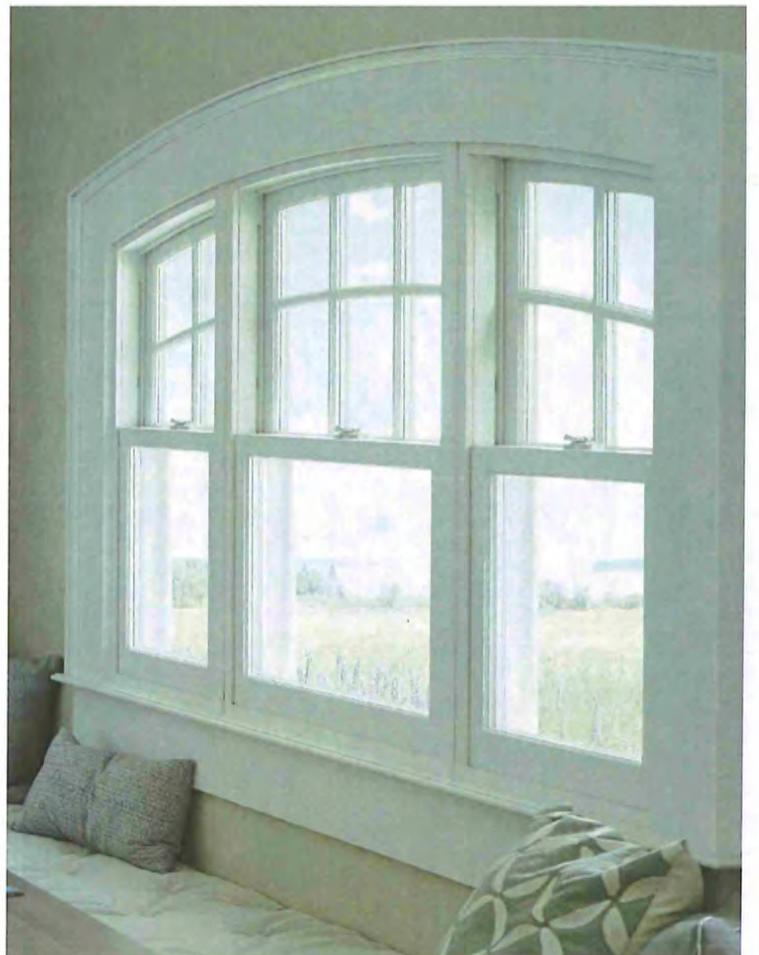
ULTIMATE DOUBLE HUNG, NEXT GENERATION



A CONTEMPORARY CLASSIC

The Ultimate Double Hung Next Generation Window is an embodiment of our dedication to the trade of creating windows and doors. Influenced by the rich, historical significance of this window style and inspired by innovative design, each feature is thoughtfully added and each detail is carefully considered.

Window above shown in Designer Black painted interior finish with Matte Black hardware.
Right window shown with White painted interior finish and Satin Chrome hardware.



INTERIOR PRODUCT FEATURES
DESIGNED TO INSPIRE

1 RICH WOOD INTERIOR
Offers beauty and warmth with six standard wood species and ten interior finish options.

2 HARROW CHECKRAIL
Provides a sleek aesthetic to maximize daylight opening while maintaining historical accuracy.

3 DESIGN VERSATILITY
With an array of simulated divided lite patterns, interior and exterior color options, ten hardware finishes, and hundreds of roundtop sizes.

4 EXCLUSIVE AUTOLOCK
Activates when the sashes are closed, locking the window.

5 FIRST-RATE ENERGY EFFICIENCY
Meet ENERGY STAR® standards in energy efficiency with multiple glass options for various regions, climates and weather needs.

6 SASH BALANCE SYSTEMS
Enable smooth operation even at the largest sizes.



EXTERIOR PRODUCT FEATURES
ENGINEERED FOR PERFORMANCE

7 DURABLE EXTERIOR CLADDING
Made with the industry's highest level of certification, AAMA 2605, extruded aluminum and backed by a 20-year warranty against chalking and fading.

8 ALUMINUM INTER-LOCK
Eliminates drafts and improves the window's overall structural integrity.

9 EXPANSIVE SIZES
Up to 5 feet wide by 10 feet high.

10 TRADITIONAL SILL BEVEL
The 14-degree bevel provides optimal water management while maintaining a classic look.

11 SUPERIOR WEATHER PERFORMANCE
The window's performance ratings are top in class, including CW-PG30 through CW-PG50 and LC-PG50 on most sizes and IZ 3 certified coastal options.

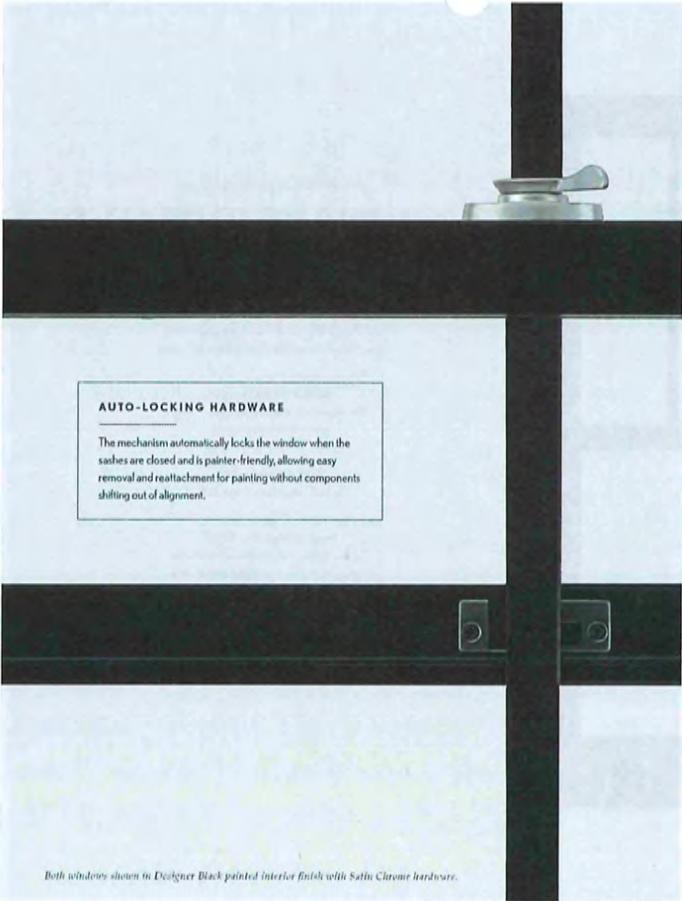
Left window shown in Cherry with Wheat stain and Antique Brass hardware.

Right window shown in Sueda aluminum cladding.



GENERATIONS OF TIMELESS DESIGN.

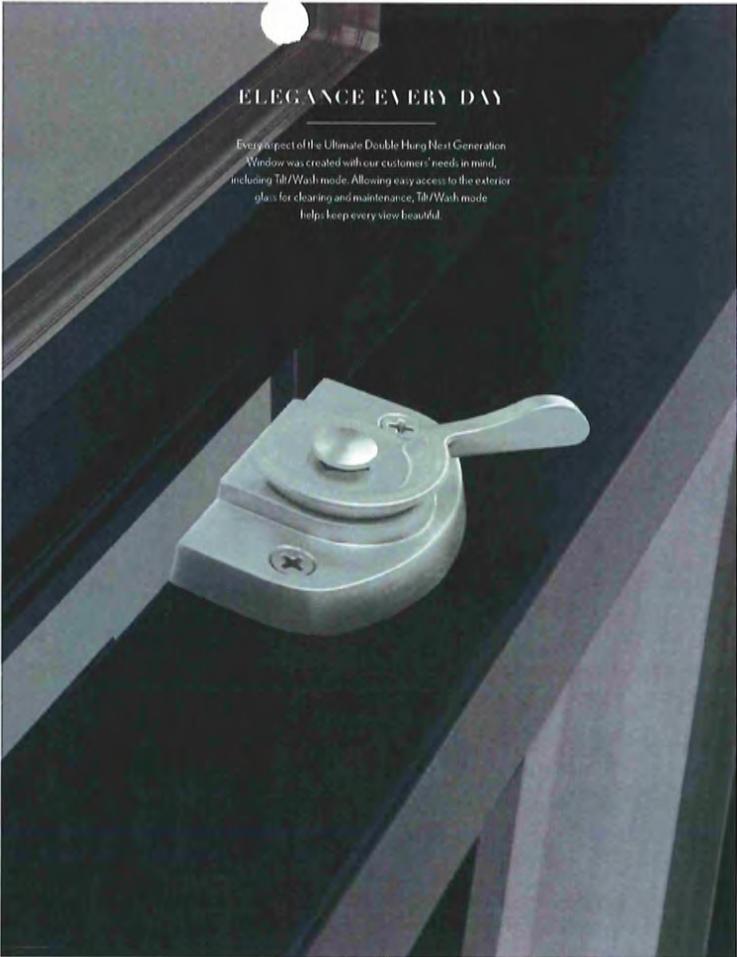
Ultimate Double Hung Next Generation Windows and Ultimate Sliding French Doors shown with Ebony cladding and Satin Nickel hardware.



AUTO-LOCKING HARDWARE

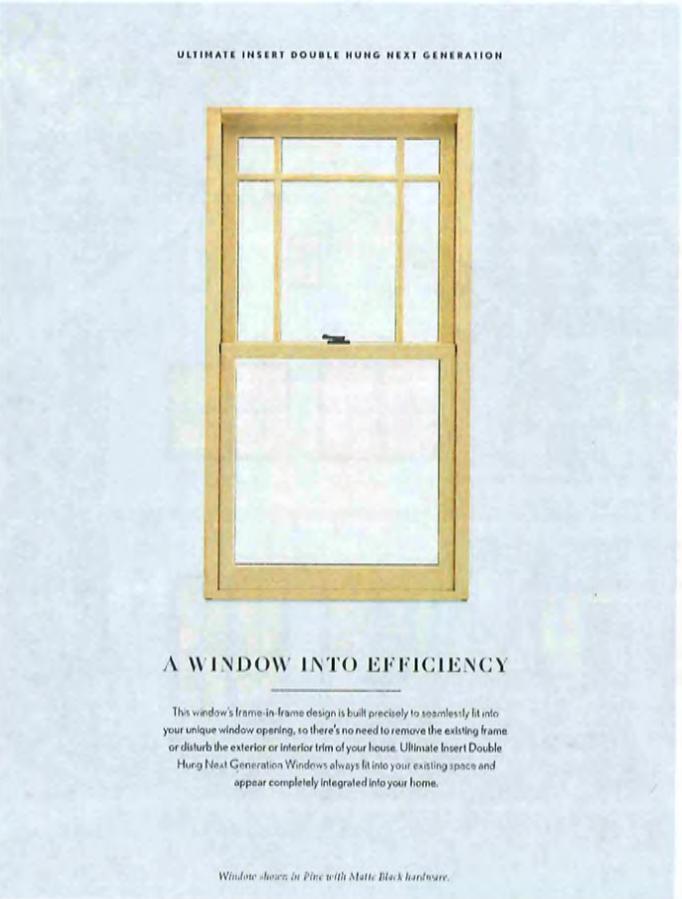
The mechanism automatically locks the window when the sashes are closed and is painter-friendly, allowing easy removal and reattachment for painting without components shifting out of alignment.

Both windows shown in Designer Black painted interior finish with Satin Chrome hardware.



ELEGANCE EVERY DAY

Every aspect of the Ultimate Double Hung Next Generation Window was created with our customers' needs in mind, including Tilt/Wash mode. Allowing easy access to the exterior glass for cleaning and maintenance, Tilt/Wash mode helps keep every view beautiful.

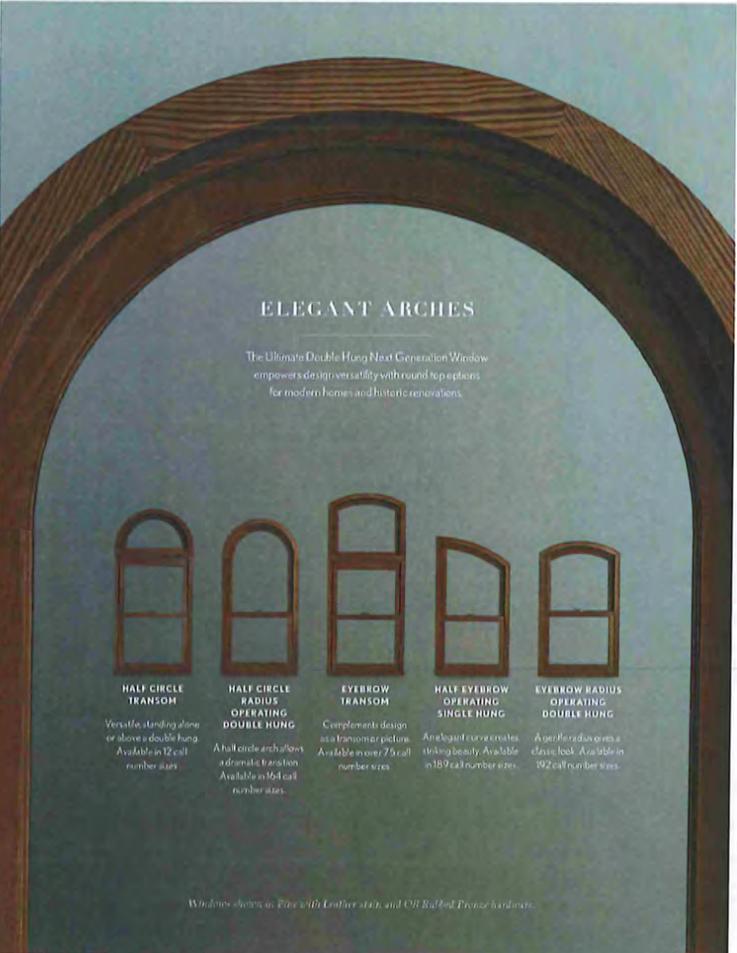


ULTIMATE INSERT DOUBLE HUNG NEXT GENERATION

A WINDOW INTO EFFICIENCY

This window's frame-in-frame design is built precisely to seamlessly fit into your unique window opening, so there's no need to remove the existing frame or disturb the exterior or interior trim of your house. Ultimate Insert Double Hung Next Generation Windows always fit into your existing space and appear completely integrated into your home.

Window shown in Pine with Matte Black hardware.



ELEGANT ARCHES

The Ultimate Double Hung Next Generation Window empowers design versatility with round top options for modern homes and historic renovations.



- HALF CIRCLE TRANSOM**
Versatile, standing alone or above a double hung. Available in 12 call number sizes.
- HALF CIRCLE RADIUS OPERATING DOUBLE HUNG**
A half circle arch allows dramatic transition. Available in 164 call number sizes.
- EYEBROW TRANSOM**
Complements design with a transom pediment. Available in over 79 call number sizes.
- HALF EYEBROW OPERATING SINGLE HUNG**
An angled curve creates striking beauty. Available in 189 call number sizes.
- EYEBROW RADIUS OPERATING DOUBLE HUNG**
A perfect arch over a classic look. Available in 192 call number sizes.

Windows shown in Pine with Leather stain, and Oil Rubbed Bronze hardware.



REIMAGINED FROM THE BOTTOM UP

The Marvin Lift Lock moves the location of the lock from the check rail to the lower part of the sash, solving an age-old problem of lock accessibility. Now, operating your window is easier than ever, the Lift Lock unlocks and acts as a handle for raising and lowering the bottom sash. To lock, simply close the bottom sash. Lift Lock hardware is available on the Ultimate Single Hung Next Generation Window.



ULTIMATE SINGLE HUNG NEXT GENERATION

A MODERN INNOVATION

The Marvin Lift Lock is the next innovation in function, design, and aesthetics for the Marvin Ultimate Single Hung Next Generation Window. Now operating your window is easier than ever, the lift lock unlocks and acts as a handle for raising and lowering the bottom sash. To lock, simply close the bottom sash. Lift Lock Hardware is available with contemporary and traditional styles to complement a range of designs.

*Left window shown in Pine with White painted interior finish and Traditional Lift Lock Hardware in Matte Black.
Left Window above shown in White Oak with Traditional Lift Lock Hardware in Satin Nickel.
Right window above shown in Pine with Designer Black painted interior finish and Contemporary Lift Lock Hardware in Satin Nickel.*



CLASSIC STYLE. VISIONARY EXPRESSION

Windows shown with White painted interior finish and Satin Chrome hardware.

ULTIMATE DOUBLE HUNG NEXT GENERATION



SUPERIOR SCREENS

Because no two projects are the same, Marvin® offers a variety of innovative screen and storm window options designed to blend into your window, meet the performance needs of your project, and match the beauty of your home.

- RETRACTABLE SCREEN
- FULL OR HALF SCREEN
- TWO-LITE STORM SASH OR SCREEN
- STORM & SCREEN COMBINATIONS

Window shown with full screen and Saade aluminum cladding.

ULTIMATE DOUBLE HUNG NEXT GENERATION



SHADED IN SERENITY

From the amount of light to give your home to the amount of privacy to give yourself, what you need throughout the day changes. Marvin's interior shades are seamlessly integrated into the window with no edge gaps for light to bleed through and feature top-down/bottom-up operation, letting you choose your exact amount of daylight or privacy. With finish options to match your windows or doors, a precision fit with no visible cords or pulleys, these shades blend into the background when unused. Offering fifteen light-filtering shade colors and five colors that block out light, Marvin® shades are designed to accommodate every need. These shades are made with a durable material that holds its pleat through normal use and we offer a 10-year warranty on all fabrics.

Windows shown in Pine with Honey stain and Almond shades.

ALUMINUM CLADDING
BEAUTY THAT DOESN'T FADE

Our cladding offers color flexibility to meet design goals with durability to protect against the elements. Backed by a 20-year warranty, Marvin's impact resistant extruded aluminum cladding is 3x thicker and much stronger than the industry-standard roll-form aluminum. ** Standing out for its extraordinary durability in nineteen spectacular colors, all finished in commercial-grade paint for superior resistance to chalking and fading, our aluminum cladding is designed to last.

WOOD SPECIES

Every master woodworker knows that one of the most important choices when crafting a new piece is selecting the right wood species for the project. With variations in grain, hardness and warmth, each one of our six standard wood species has something unique to offer.

INTERIOR FINISH OPTIONS

As part of our commitment to only creating the highest-quality windows and doors, every single piece of wood in each of our made-to-order products is conditioned, sanded, and baked during our integrated conditioning and staining process to provide an elegant and lasting finish. With nine stain and paint options to choose from, our customers can receive stunning, ready-to-install windows and doors without the mess, fumes, or inconvenience.

* Feature: Paint Aluminum Cladding
** Some colors may not qualify for the 20-year warranty. For details contact your local dealer. For a copy of the warranty, see MarvinWindows.com

A MODERN
MASTERPIECE



MARVIN
Windows and Doors
Built around you.™

Marvin® Windows and Doors, Warroad, MN 56763, ©2018 Marvin Windows and Doors. All rights reserved. ®Registered trademark of Marvin Windows and Doors. Information regarding status of patent applications, and product features and specifications is subject to change without notice. Colors shown in printed materials are simulations and may not precisely duplicate product or finish colors. Contact your local Marvin dealer to view actual product and finish samples.

Part #19980680, June 2018.

MARVINWINDOWS.COM

HANDCRAFTED
IN AMERICA. 

MARVIN
Windows and Doors
Built around you.™

THE ULTIMATE CASEMENT AND AWNING WINDOWS:
BETTER BY EVERY MEASURE

Ultimate Casement and Awning Windows from Marvin® are now the biggest wood-clad operating windows in the industry. This family of windows delivers exceptional beauty, craftsmanship and design flexibility without sacrificing performance. In fact, the largest Casement Window (36" x 102") achieves an industry-leading CW-PG40 rating. Functionality is taken to new heights thanks to exclusive, adjustable hardware. Concealed multi-point locks improve fit and operation, and the casement's wash mode allows the window to be rotated to clean the exterior from inside the home. With a hinge bar that can carry up to 150 lbs of sash weight, even the biggest windows open effortlessly. As with all Marvin products, unsurpassed attention to detail and stunning views come standard.



MARVIN CASEMENT & AWNING WINDOWS



BIGGEST OPERATING SIZES
 The most glass for the most view. Tallest casement: 36" x 102". Widest casement: 44" x 91 1/2". Tallest awning: 48" x 96". Widest awning: 96" x 48 1/2".

UNMATCHED PERFORMANCE
 The industry's largest wood-clad casement and awning windows offer industry-leading performance, up to a LC-PG40 rating. Most casement sizes up to 36" x 96" or 40" x 92" are rated CW-PG50. Many mull configurations are AAMA 450 certified.

SMOOTH OPERATION
 Custom high-performance gearing and a hinge bar that can carry up to 150 lbs of sash weight allow for smooth, effortless operation.

CONCEALED MULTI-POINT LOCKS
 Activated from one, easy to operate location, multi-point locks enhance performance. The concealed lock system doesn't detract from the window aesthetics.



REVOLUTIONARY WASH MODE

WASHING WINDOWS IS NO LONGER A CHORE



Our Ultimate Casement Windows operate in a way so revolutionary that we've patented it, making Marvin® the only place to find it. The innovative hardware allows access to both sides of the glass from the inside of your home, making window washing stress and ladder free.

- Allows access to both sides of the glass from inside the home
- Features patented, innovative hardware
- Unrivaled convenience
- Exclusive to Marvin Casement products
- No ladder required



ULTIMATE CASEMENT



- For use in new construction or full-frame replacement applications
- Recessed sash
- 4 1/2" jamb
- Biggest operating wood-clad windows available, up to 36" x 102"
- Largest sizes rated CW-PG40, most sizes rated CW-PG50
- Exclusive hardware for easy operation
- Patented wash mode
- Multi-point locks
- Removable interior covers
- Pre-drilled jamb holes for easy installation
- Expert craftsmanship
- Design flexibility

ULTIMATE REPLACEMENT CASEMENT



- Perfect for frame in frame replacement
- Works for new construction and remodeling with factory applied jamb extensions
- 2 7/8" jamb
- Biggest operating wood-clad windows available, up to 36" x 102"
- Largest sizes rated CW-PG40, most sizes rated CW-PG50
- Exclusive hardware for effortless operation
- Patented wash mode
- Multi-point locks
- Factory applied jamb extensions
- Installation kit included
- Design flexibility
- Expert craftsmanship



ULTIMATE PUSH OUT CASEMENT & PUSH OUT REPLACEMENT CASEMENT



- Alternative to crank out casement windows
- Opens quickly - simply unlock the handle and push open the sash
- Exclusive sash limiter device provides flexibility to fix windows open at multiple pre-set angles
- Available in sizes as large as 40" x 92" or 36" x 90"
- Push Out Casement jambs at 4 1/2", Push Out Replacement Casement jambs at 2 1/2"
- CW-PG50 rating up to 36" x 71 1/2", Largest sizes rated CW-PG35
- Many mull configurations are AAMA 450 certified
- Oil Rubbed Bronze hardware

ULTIMATE FRENCH CASEMENT & PUSH OUT FRENCH CASEMENT



- Available in crank or push out
- Overall max size is 60" x 71 1/2" for the crank version and 60" x 71 1/2" for the push out version
- Opens like a French door
- Offers unobstructed views
- 4 1/2" jamb
- Exclusive friction limiter allows window to be open at multiple pre-set angles
- Oil Rubbed Bronze hardware
- Many mull configurations are AAMA 450 certified
- Sturdy hardware capable of supporting a 150lb sash, providing top performance at very large sizes



INSWING CASEMENT

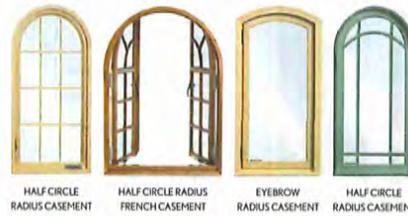


- Complements classic architectural styles
- Alternative to outswing window
- Opens 180 degrees
- Concealed pocket hinges
- Window size, depending on hardware, can be as large as 6' in height
- Concealed pocket hinges provide smooth operation
- Exceptional craftsmanship

INTERIOR

EXTERIOR

ULTIMATE CASEMENT ROUND TOP



The Marvin® Ultimate Casement Round Top is a great choice for designs that require large unobstructed views and the elegance of an arched shape. You can select from numerous round top shapes for design flexibility. Stationary windows with either eyebrow or half circle arches can be sized to stand alone or fit above a casement as a transom.

HALF CIRCLE RADIUS CASEMENT

HALF CIRCLE RADIUS FRENCH CASEMENT

EYEBROW RADIUS CASEMENT

HALF CIRCLE RADIUS CASEMENT



CONTEMPORARY CASEMENT



- New bigger sizes without sacrificing performance
- Max height: 102", max width: 44"
- Narrow frames complement contemporary designs
- Large expanses of glass
- Minimalist square sticking
- Modern, concealed hardware
- 2 3/8" jamb
- Available in crank or push out
- Flush exterior frame and sash

INTERIOR

EXTERIOR

EXTERIOR
4 7/8" FULL JAMB

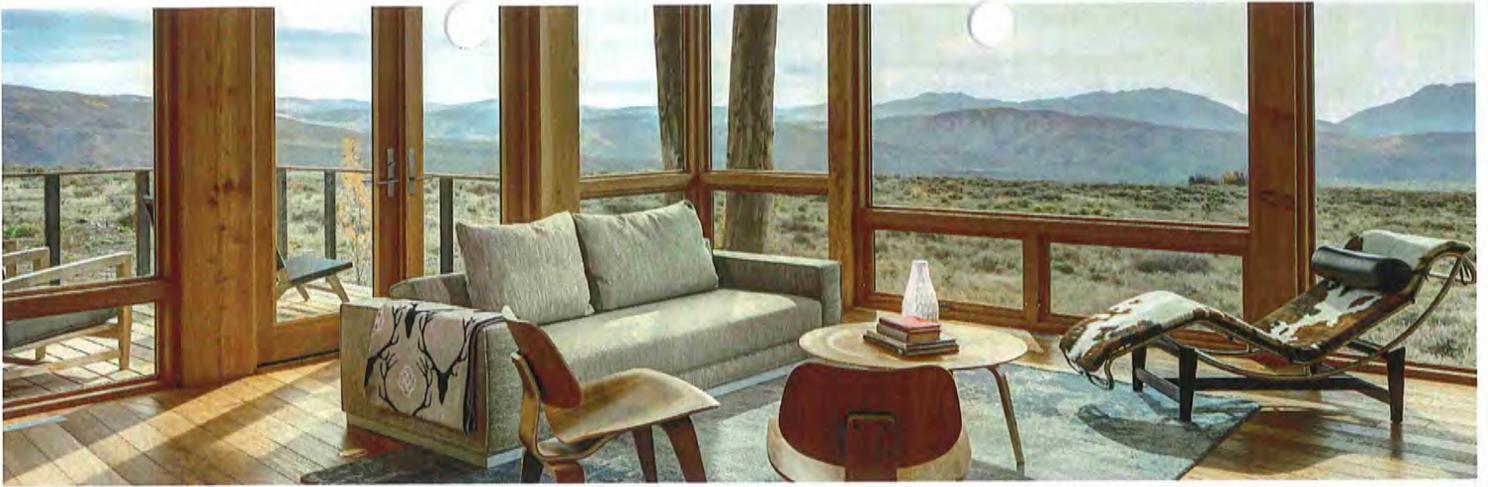
CONTEMPORARY CASEMENT PICTURE



INTERIOR

EXTERIOR

- Performance at big sizes
- Fixed windows in casement format and in other geometric shapes
- As large as 120" x 80" or 80" x 120" at CW-PG40
- Frame and sash complement Ultimate Casement products
- Ideal for creating window walls
- Available fixed as an in sash unit. Direct Glaze units also available
- Corner units available as symmetrical or asymmetrical units
- Corner post in corner unit is only 2 1/8"
- Factory mulling available for vertical stacked corner units



ULTIMATE AWNING



INTERIOR



EXTERIOR

- Ideal for adding ventilation
- Most sizes rated LC-PG50, LC-PG40 rating at largest sizes
- Tallest size: 48" x 96"
- Widest size: 104" x 64"
- Unmatched design flexibility
- Complements Ultimate Casement and Picture Windows
- Ideal for replacement, remodel or new construction
- 4 1/2" Jamb
- Easy installation

CONTEMPORARY AWNING & ULTIMATE REPLACEMENT AWNING



INTERIOR

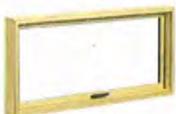


EXTERIOR

- Tallest size: 48" x 96"
- Widest size: 96" x 48 1/2"
- Flush exterior frame and sash
- Narrow frame
- Clean lines for a modern aesthetic
- Most sizes rated LC-PG50, LC-PG40 rating at largest sizes
- Complements Contemporary Casement or Direct Glaze Windows
- 2 1/2" Jamb
- Easy installation and operation



ULTIMATE PUSH OUT AWNING & ULTIMATE REPLACEMENT PUSH OUT AWNING



INTERIOR



EXTERIOR

- Ideal for adding ventilation
- Rated up to LC-PC50, depending on size
- Tallest size: 47 1/2" x 96"
- Widest size: 72" x 47 1/2"
- Complements Ultimate Casement and Picture Windows
- Exceptional design flexibility
- Ideal for replacement, remodel or new construction
- 4 1/2" Ultimate Push Out Awning
- 2 1/2" Jamb for Ultimate Replacement Push Out Awning

ULTIMATE CASEMENT FEATURES & OPTIONS



ENDLESS DIVIDED LITE OPTIONS

- Adds detail to any window
- Available with or without spacer bar, with grilles-between-the-glass (with or without color) or with removable grilles
- Available in a wide range of muntin widths, profiles, rectangular or radius cuts
- Custom options available
- Exceptional craftsmanship



WINDOW OPENING CONTROL DEVICE

- Limits window's net clear opening width to 4" or less
- Meets ASTM F2090-10 standard and 2012 International Building Code (IBC) for fall prevention in children under five
- Multi-action release function allows for full opening
- Automatically re-engages when sash is fully closed



SASH LIMITER

- Restricts sash travel
- Sash limiting options available to meet opening restriction needs
- Limits window's net clear opening width to 4" or less
- Easy installation



RETRACTABLE SCREENS



- Withstands 15 mph wind
- Narrow pull-bar profile (1 1/2" x 3/8")
- Screen mesh is stiffened high transparency
- Screen reverts back into track upon opening/closing
- Latch colors: black, white, beige
- Interior finishes available to match window
- 4 7/8" minimum jamb depth

SCREEN OPTIONS



FULL SCREEN

- Aluminum surround available in Satin Taupe, Stone White and Bronze



WOOD SCREEN

- Interior surround complements wood windows
- Available factory finished: primed, painted, stained or clear coat
- High transparency mesh



INSWING WOOD SCREEN

- Interior surround complements wood windows
- Factory prepped for staining or painting
- Easy to use screen door for windows
- Adds character to any outswing casement
- High transparency mesh, or choose from a variety of screen options



INTERIOR SHADES



- Seamless integration with window
- Precision fit with minimal light bleed
- No exposed cord or pulleys
- Available in top-down/bottom-up
- Exceptional craftsmanship
- Elegant, custom aesthetic
- Smooth operation
- Available in 15 colors
- Available in blackout/light filtering

SHADE COLORS

Fully integrated shades can change the way you see a room. Top-down/bottom-up functioning shades are available exclusively on most Marvin® windows. The fabric used in Marvin® Shades is extremely durable and will hold its pleat through normal use. All 15 colors shown here come in light-filtering fabric and five colors are also available in blackout fabric. We offer a 10 year warranty on all fabrics.



*Denotes colors are also available in blackout fabric.

FEATURES



WITH STACK COVER OPTION



WITHOUT STACK COVER OPTION

- INTEGRATES SEAMLESSLY WITH MARVIN WINDOWS AND DOORS
- DOES NOT PROTRUDE INTO THE LIVING SPACE OR INTERFERE WITH HARDWARE
- LOOKS LIKE PART OF THE WINDOW OR DOOR AND CAN BE MATCHED TO MARVIN INTERIOR FINISHES
- AVAILABLE WITH A MATCHING STACK COVER OPTION TO HIDE SHADES WHEN NOT IN USE
- NO VISIBLE CORDS OR PULLEYS
- PRECISION FIT, VIRTUALLY ELIMINATING GAPS AND LIGHT BLEED
- EASY INSTALLATION, NO NEED TO MEASURE
- AVAILABLE IN 15 ON-TREND COLORS
- AVAILABLE IN BLACKOUT (ELIMINATES MOST LIGHT) AND LIGHT-FILTERING (ALLOWS SOME LIGHT IN) FABRICS



CLAD COLORS

Marvin's low-maintenance, clad-wood products feature an extruded aluminum commercial-grade exterior finish for superior resistance to fading and chalking. Marvin's palette of nineteen durable colors includes a spectrum of rich colors and three fresh, pearlescent finishes.



Custom Colors: no matter what your inspiration for a custom window color, Marvin® will match it. You get any color your heart desires, with your own personal custom color name and 20-year warranty.

**ANY COLOR
YOU WANT**

WOOD SPECIES

The Marvin® Ultimate Casement Window is available with a wood exterior of Pine, Mahogany or Vertical Grain Douglas Fir. Wood interiors are available in six species. Wood is a product of nature and will vary in color, texture and grain.



INTERIOR FINISH OPTIONS

Marvin is proud to offer six attractive stain options. Every piece of wood is put through our proprietary multi-step, integrated conditioning and staining process. As part of this process, the wood is conditioned, sanded and baked to ensure a more ideal, lasting and beautiful finish.



Note: Stain colors are shown on Pine. To see all the beautiful finishes, visit MarvinWindows.com.

Marvin® Windows and Doors, Newark, NJ 07102 ©2014 Marvin Windows and Doors. All rights reserved. Registered trademarks of Marvin Windows and Doors. Pat # 8,999,023 April 2016.
Information regarding status of patent applications, and product features and specifications is subject to change without prior notice. Color shown is printed materials.
All dimensions are in inches unless otherwise specified. Custom paint color may vary slightly from actual product and finish color samples.

MAUFACTURED
IN AMERICA

MARVIN
WINDOWS AND DOORS
Built around you.™

Kawneer Aluminum 2000 21-015714

RECEIVED

FEB 26 2011

PLANNING & LAND MGT
TOWN OF CONCORD, MA

PART 1 - GENERAL

SECTION 086300
METAL FRAMED SKYLIGHTS

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Refer to SECTION 012300, ALTERNATES, for alternates which may affect the work of this SECTION.

1.02 SUMMARY

- A. Section Includes:
 - 1. Exterior glazed skylight framing.
- B. Related Requirements:
 - 1. Section 084126, All-Glass Entrances & Storefronts for storefront systems.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: For aluminum-framed unit skylights. Include plans, elevations, sections, full-size details, and attachments to other work.
 - 1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
 - 2. Include full-size isometric details of each intersection of aluminum-framed unit skylights, showing the following:
 - a. Joinery, including concealed welds.
 - b. Anchorage.
 - c. Expansion provisions.
 - d. Glazing.
 - e. Flashing and drainage.
- C. Samples for Initial Selection: For units with factory-applied color finishes.

CONCORD FREE PUBLIC LIBRARY EXPANSION
Concord, Massachusetts

- D. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.

1.04 INFORMATIONAL SUBMITTALS

- A. Preconstruction Laboratory Mockup Testing Submittals:
 - 1. Testing Program: Developed specifically for Project.
 - 2. Test Reports: Prepared by a qualified preconstruction testing agency for each mockup test.
 - 3. Record Drawings: As-built drawings of preconstruction laboratory mockups showing changes made during preconstruction laboratory mockup testing.
- B. Qualification Data: For Installer.
- C. Energy Performance Certificates: For aluminum-framed entrances and storefronts, accessories, and components, from manufacturer.
 - 1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront.
- D. Product Test Reports: For aluminum-framed entrances and storefronts, for tests performed by manufacturer and witnessed by a qualified testing agency.
- E. Field quality-control reports.
- F. Sample Warranties: For special warranties.

1.05 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For aluminum-framed unit skylights to include in maintenance manuals.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

1.07 MOCKUPS

- A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
1. Build mockup of typical corner section as shown on Drawings.
 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.08 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed unit skylights that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
 - a. Structural failures including, but not limited to, excessive deflection.
 - b. Noise or vibration created by wind and thermal and structural movements.
 - c. Deterioration of metals and other materials beyond normal weathering.
 - d. Water leakage, defined as uncontrolled water appearing on normally exposed interior surfaces of skylights from sources other than condensation, resulting from defects in skylight materials or workmanship.
 2. Warranty Period: 10 years from date of Substantial Completion.
- B. Special Finish Warranty: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 2. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. General Performance: Comply with performance requirements specified, as determined by testing of glazed aluminum curtain walls representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
1. Glazed aluminum skylights shall withstand movements of supporting structure including, but not limited to, story drift, twist, column shortening, long-term creep, and deflection

from uniformly distributed and concentrated live loads. Failure also includes the following:

- a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Loosening or weakening of fasteners, attachments, and other components.
 - d. Failure of operating units.
- B. Delegated Design: Design glazed aluminum skylights, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- C. Wind and Snow loads: Refer to the Structural Drawings, S1.1 for Design Loads. The design pressures shall be based on the Massachusetts Building Code; 9th Edition.
1. Deflection of the entire length of framing members in direction normal to the glazing plane is limited to $1/175^{\text{th}}$ of clear span.
- D. Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft^2 ($.0003 \text{ m}^3/\text{s}\cdot\text{m}^2$) at a static air pressure differential of 6.24 PSF (300 Pa) or CAN/CSA-A440 fixed rating.
- E. Water Resistance, (static): The test specimen shall be tested in accordance with ASTM E 547. There shall be no leakage at static air pressure differentials of 15 PSF (718 Pa) minimum or CAN/CSA-A440 B7 rating.
- F. Uniform Load: A static air design load of 40 PSF (1916 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of $L/175$ of the span of any framing member at design load. At structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur or CAN/CSA-A440 C5 rating.
1. Structural Loads: Provide metal-framed skylights, including anchorage, capable of withstanding the effects of the following design loads when supporting full dead loads:
 - a. Concentrated Load: 250 lb. applied to framing members at location that produces the most severe stress or deflection.
 - b. Wind, snow, and roof loads: as noted above, and included on the Structural Drawings.
- G. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than 67_{frame} and 65_{glass} (clear).

2.02 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Architectural Aluminum 2000 Skylight System, as manufactured by Kawneer Company, Inc., or comparable product by one of the following:
1. Pinnacle 900, Wasco Products, Inc., Commercial Division.
 2. BMS-3000, Oldcastle Building Envelope.

- B. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

2.03 FRAMING

- A. Framing Members: Manufacturer's standard extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
 - 1. Glazing System: 4 sided captured.
 - 2. Glazing Plane: Front.
- B. Glass: 1-inch insulating glass.
- C. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.
- D. Framing Sealants: Shall be suitable for glazed aluminum skylight as recommended by sealant manufacturer.
- E. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.
- F. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
- G. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- H. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle skylight material and components to avoid damage. Protect skylight material against damage from elements, construction activities, and other hazards before, during and after installation.

2.04 GLAZING

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. GANA Publications: "Laminated Glazing Reference Manual" and "Glazing Manual."
 - 2. AAMA Publications: AAMA GDSG-1, "Glass Design for Sloped Glazing," and AAMA TIR A7, "Sloped Glazing Guidelines."
 - 3. IGMA Publication for Sloped Glazing: IGMA TB-3001, "Guidelines for Sloped Glazing."
 - 4. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.

- C. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
- D. Glazing: Comply with Division 08 Section "Glazing".
 - 1. Outside glazed pressure plate format with 1-inch double glazed insulating glass. 1/4-inch tempered glass over 3/8-inch laminated glass.
 - a. Exterior Layer: Fully Tempered Clear Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) as indicated, Quality-Q3.
 - b. Interior Layer: Laminated Glass: ASTM C 1172. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation. Laminate glass with polyvinyl butyral interlayer or ionomeric polymer interlayer to comply with interlayer manufacturer's written instructions.
- E. Glazing Gaskets: Gaskets to meet the requirements of ASTM C864.
- F. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.
- G. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.
- H. Glazing Sealants: As recommended by manufacturer for joint type.

2.05 ACCESSORY MATERIALS

- A. Bituminous Paint: Cold-applied asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos, formulated for 30-mil (0.762 mm) thickness per coat.
- B. Gaskets: Interior glazing gaskets shall comply with ASTM C864 and be extruded of a silicone compatible EPDM rubber. Exterior glazing gaskets to be Tremco Visionstrip.

2.06 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
 - 1. Fabricate components that, when assembled, have the following characteristics:
 - 2. Profiles that are sharp, straight, and free of defects or deformations.
 - 3. Accurately fitted joints with ends coped or mitered.
 - 4. Physical and thermal isolation of glazing from framing members.
 - 5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 6. Provisions for field replacement of glazing from exterior.
 - 7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
 - 8. Internal guttering system or other means to drain water passing joints, condensation occurring within framing members, and moisture migrating within glazed aluminum skylight to exterior.

9. Double barrier design with primary air and vapor barrier at interior side of glazed aluminum skylight and secondary seal weeped and vented to exterior.
- B. Skylight Framing: Fabricate components for assembly following manufacturer's standard installation instructions.
- C. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.07 ALUMINUM FINISHES

- A. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2604 and containing not less than 50 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 1. Color and Gloss: As selected by Architect from manufacturer's full range.

2.08 SOURCE QUALITY CONTROL

- A. Structural Sealant: Perform quality-control procedures complying with ASTM C 1401 recommendations including, but not limited to, assembly material qualification procedures, sealant testing, and assembly fabrication reviews and checks.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. General:
 1. Comply with manufacturer's written instructions.
 2. Do not install damaged components.
 3. Fit joints to produce hairline joints free of burrs and distortion.
 4. Rigidly secure nonmovement joints.
 5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
 6. Seal perimeter and other joints watertight unless otherwise indicated.
- B. Metal Protection:

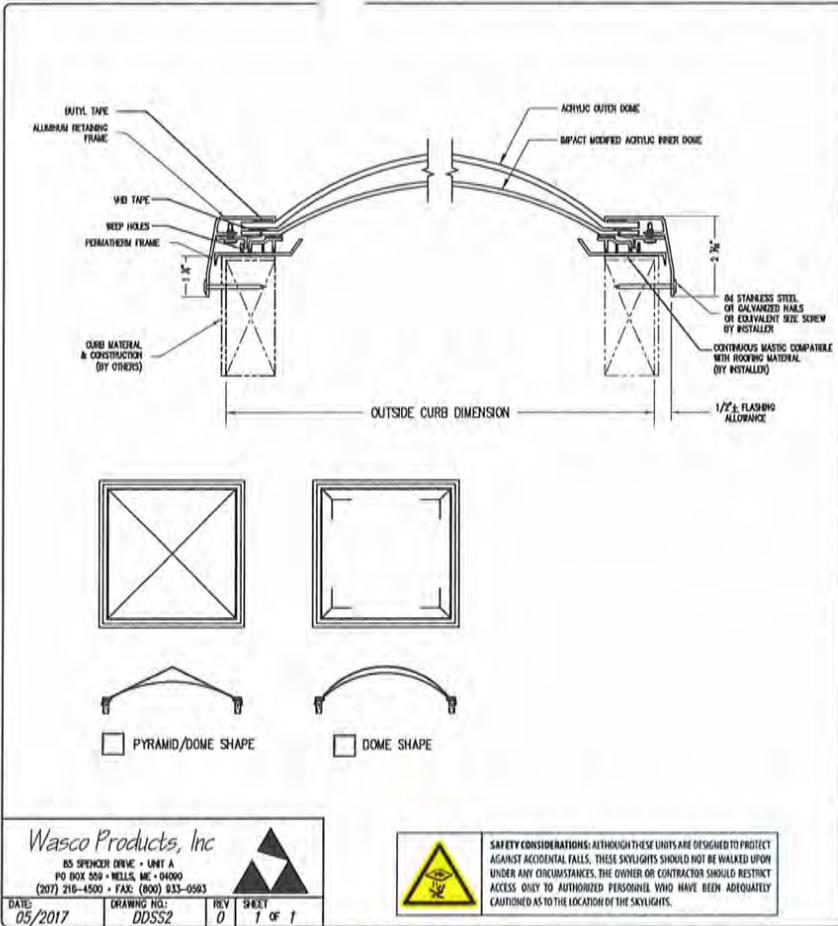
CONCORD FREE PUBLIC LIBRARY EXPANSION
Concord, Massachusetts

1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- C. Set continuous sill members and flashing in full sealant bed as specified in Section 079200 "Joint Sealants" to produce weathertight installation.
- D. Install components plumb and true in alignment with established lines and grades.
- E. Install weatherseal sealant according to Section 079200 "Joint Sealants" and according to sealant manufacturer's written instructions to produce weatherproof joints. Install joint filler behind sealant as recommended by sealant manufacturer.
- F. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.

3.03 ERECTION TOLERANCES

- A. Erection Tolerances: Install aluminum-framed entrances and storefronts to comply with the following maximum tolerances:
1. Plumb: 1/8-inch in 10-feet; 1/4-inch in 40-feet.
 2. Level: 1/8-inch in 20-feet; 1/4-inch in 40-feet.
 3. Alignment:
 - a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2-inch wide, limit offset from true alignment to 1/16-inch.
 - b. Where surfaces are separated by reveal or protruding element from 1/2- to 1-inch wide, limit offset from true alignment to 1/8-inch.
 - c. Where surfaces are separated by reveal or protruding element of 1-inch wide or more, limit offset from true alignment to 1/4-inch.
 4. Location: Limit variation from plane to 1/8-inch in 12-feet; 1/2-inch over total length.

END OF SECTION



ORDER #:	DATE:	
PROJECT:		
LOCATION:		
CUSTOMER:		
APPROVED:	DATE:	
MODEL	O.D. OF CURB	QUANTITY
DDSS2 2828	25 1/4" X 25 1/4"	
DDSS2 2852	25 1/4" X 49 1/4"	
DDSS2 3636	33 1/4" X 33 1/4"	
DDSS2 3652	33 1/4" X 49 1/4"	
DDSS2 4242	40" X 40"	
DDSS2 5252	49 1/4" X 49 1/4"	
DDSS2 5276	49 1/4" X 72 1/2"	
DDSS2 5296	49 1/4" X 92 1/2"	
DDSS2 5555	51" X 51"	
DDSS2 55102	51" X 99"	
DDSS2 6060	58" X 58"	
DDSS2 6476	60 1/2" X 72 1/2"	
DDSS2 6496	60 1/2" X 92 1/2"	
DDSS2 6666	63" X 63"	
DDSS2 66102	63" X 99"	
DDSS2 7272	71" X 71"	
DDSS2 8080	78" X 78"	
DDSS2 9898	95 1/2" X 95 1/2"	
CUSTOM		
FRAME FINISH: PVC: WHITE INTERIOR		
RETAINER FINISH: MILL (STANDARD)		
<input type="checkbox"/> OTHER _____		
GLAZING:		
ACRYLIC OUTER		IMPACT MODIFIED ACRYLIC INNER
<input type="checkbox"/> CLEAR		<input type="checkbox"/> CLEAR
<input type="checkbox"/> WHITE		<input type="checkbox"/> WHITE
<input type="checkbox"/> 2412 BRONZE		
THIS UNIT MEETS THE INTENT OF THE OSHA STANDARD 29 CFR-1910 23 (E)(8) AND WAS TESTED TO 775 FT-LBS.		
DDSS2-SENTINEL CURB MOUNT FALL PROTECTION		

Wasco Products, Inc
 85 SPENCER DRIVE • UNIT A
 PO BOX 500 • WELLS, ME • 04090
 (207) 210-4500 • FAX: (800) 833-0583



SAFETY CONSIDERATIONS: ALTHOUGH THESE UNITS ARE DESIGNED TO PROTECT AGAINST ACCIDENTAL FALLS, THESE SKYLIGHTS SHOULD NOT BE WALKED UPON UNDER ANY CIRCUMSTANCES. THE OWNER OR CONTRACTOR SHOULD RESTRICT ACCESS ONLY TO AUTHORIZED PERSONNEL WHO HAVE BEEN ADEQUATELY CAUTIONED AS TO THE LOCATION OF THE SKYLIGHTS.

DATE: 05/2017 DRAWING NO.: DDSS2 REV: 0 SHEET: 1 OF 1

CONCORD
 HISTORIC DISTRICTS
 COMMISSION
 SIGNED: 
 DATE: 9/5/19
 APPROVED

RECEIVED

Flindt Bollard

FEB 26 2019

FLINDT-B / 43.3 IN / 14W LED/3000K / 120-277V/60HZ / Nat paint alu / POST W/BASE PLATE / DIM 0-10V / 10000126945

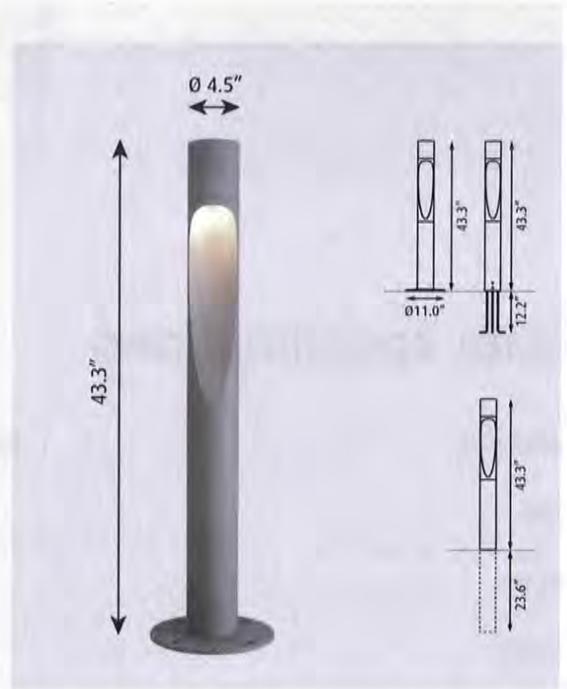
PLANNING & LAND MGMT
TOWN OF CONCORD, MA

The light distribution is directed downward on one side of the bollard. The flared aperture creates an organic shaped light pattern covering nearly 180°. Two COB LEDs are housed in the top of the fixture and is shielded from direct view for glare control. The fixture can be horizontally rotated 20° and locked after the base plate is installed for optimal positioning.

Project name:

Project type:

Notes:



Finish

Natural painted aluminum or corten colored, powder coated.

Mounting

Base plate dimension: 11" diameter. Base plate: Mounted to a concrete base with 4 anchor bolts on a bolt circle of 8.91" diameter. Installation: Refer to mounting instruction download for installation details.

Compliance

cULus, Wet location.

Materials

Top: Cast aluminum. Post: Extruded aluminum. Base plate: Die cast aluminum. Lens: Clear polycarbonate. Anchor bolts: Zinc-plated steel.

Sizes and weight

Width x Height x Length (in.) | 4.5 x 43.3 x 4.5 Max 23.0 lbs | 4.5 x 31.5 x 4.5 Max 0.0 lbs

Light source

14W LED/3000K

**louis
poulsen**

CONCORD
HISTORIC DISTRICTS
COMMISSION

SIGNED: 

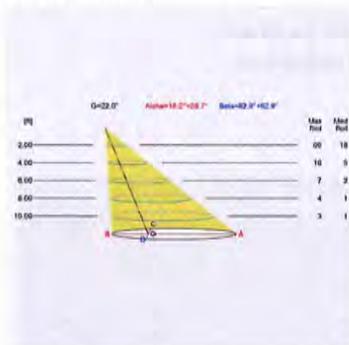
DATE: 9/5/19

APPROVED

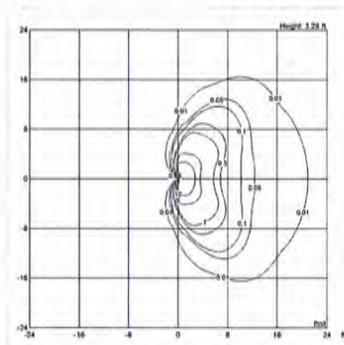
Design to shape light

Light distribution diagrams

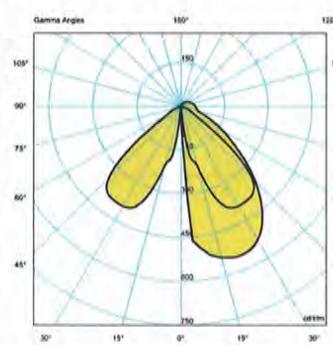
Cartesian



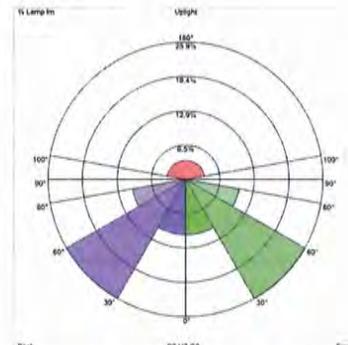
Isolux



Polar



Bug



Data specifications

BUG Rating	B0 U2 G0
Class	-
Efficacy	38
IK class	10
IP class	65
L80B10 (hours)	-
Length	4.5
Lumen	538
Net Weight	23.001
SDCM	03
Surges	10 kV
Watt	14.0
Wind Load per m2	-

Built-in Height	-
CRI	80
Height	43.3
Inrush Current	15A
Kelvin	3000
L80B50 (hours)	-
Light source	14W LED/3000K
Min. Dim Level (%)	10
Power Factor (P = 100 % / P = 50 %)	0.9
Standby (W)	-
UGR Transversal / Axial	< 0/21.4
Width	4.5



**PHILIPS
LIGHTOLIER**

Downlighting

Flat downlight

4" and 6" round aperture



Philips Lightolier LED Flat downlight provides an easy and quick downlight solution without the traditional frame and reflector. Perfect for installation in existing ceilings or new construction with the benefits of energy saving LED technology.

Project: _____

Location: _____

Cat No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Fixture

example: FD6R09930TEIW

Family	Size	Lumens	CRI	CCT	Dimming	Voltage	Finish
FD			9	30	TE	1	W
FD Flat Downlight	4R 4-inch Round	07 700 lm	9 90	30 3000K	TE Triac & ELV	1 120V	W White (matte)
	6R 6-inch Round	09 900 lm	9 90	30 3000K	TE Triac & ELV	1 120V	W White (matte)

Accessories

example: FDRN

Family	Model
FD	
FD Flat Downlight	RN Round new construction plate 06C 6' extension cable 20C 20' extension cable

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: _____
DATE: 9/5/19
APPROVED

Features

- Flange:** aluminum, painted white.
- Lens:** hard plastic material with diffused light pattern.
- Junction Box:** steel, 4 7/8" x 1 1/4" x 4 1/8" (124mm x 32.6mm x 105.2mm). Clip attached on the side of the J-box to connect with fixture or new construction plate to meet NEC (National Electric Code). J-box also has key holes on the side for mounting on joist (see page 2).
- Connector:** locking power connection is used to connect J-box and fixture. Standard length of the connection is 16" (400mm). Extension cable available as accessory.
- Ceiling cutout:** installation template on adhesive backed label is supplied with the product.
4" round: 4 3/16" (106mm) diameter.
6" round: 6" (152mm) diameter.
- Gasket:** foam gasket supplied with fixture.
- New Construction plate:** steel, 10" x 17 1/2" (254mm x 445mm). Holes on the side of the plate for mounting.

Electrical

Electronic power supply: RoHS compliant.* Class 2 power unit. Remote power supply can only accommodate one LED module and cannot be shared with other LED module. Fixture can be through wired.

Dimming: Intended for ELV/TRIAC (120V) dimming. For more details, refer to LED-DIM-DL spec sheet.

	Lumen output	Input voltage	Input freq	Max. input current	Max. input power	Max. THD	Power factor
4" Round	700lm	120V	60Hz	0.13A	13W	15.3%	1
6" Round	900lm	120V	60Hz	0.15A	15.5W	14%	1

* Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)) in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.

Labels

cULus listed (UL 1598) for wet locations (covered ceiling only). IC rated for direct contact with thermal insulation. AirSeal for minimal air leakage. ENERGY STAR* certified. Title 24 compliant.

Warranty

Lifetime: Expected lifetime 50,000 hours and backed by a 5-year warranty (visit philips.com/warranties for details).

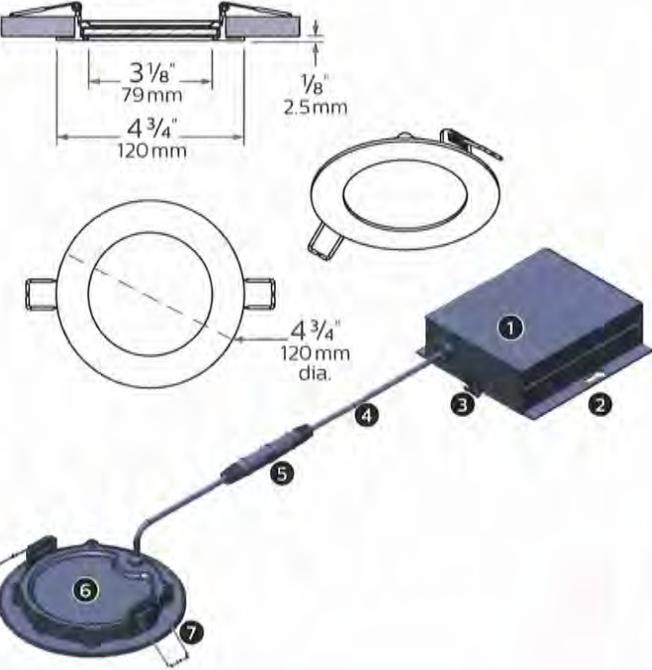


FDR Flat downlight

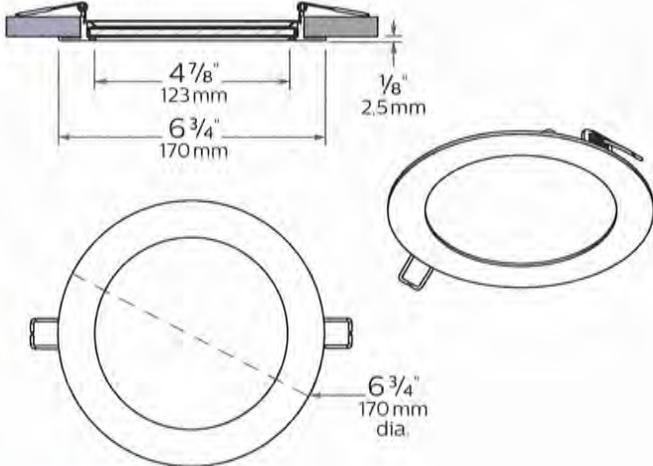
4" and 6" round aperture surface mount downlight

Dimensions

Flat Downlight 4"



Flat Downlight 6"

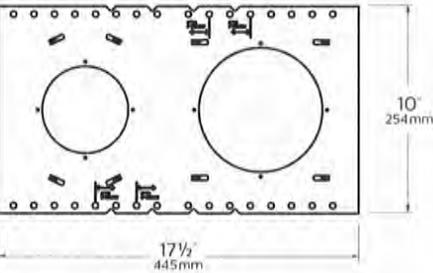


Components

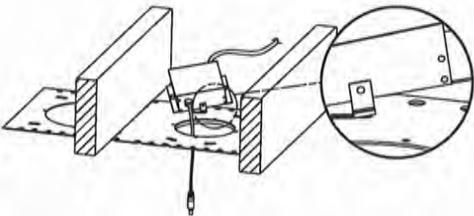
- 1. Electrical Box with knockouts
- 2. Mounting keyhole
- 3. Remodel NEC* clip
- 4. 19.5" (0.5m) cord
- 5. Locking power connector
- 6. Integrated LED Luminaire
- 7. Spring clip for easy mounting

* National Electric Code

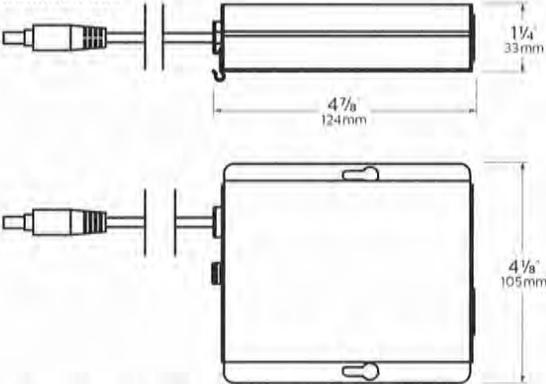
Frame plate



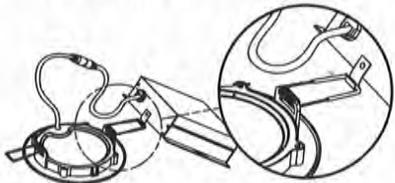
Secure J-Box to frame plate:
slide junction box clip into slot and catch finger tab.



Junction box



Remodeler applications:
attach junction box clip to installation spring to assure N.E.C compliance.

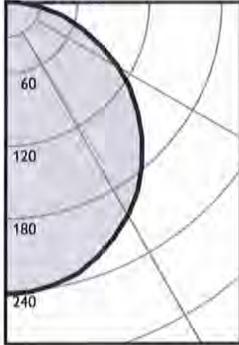


FDR Flat Downlight

4" and 6" round aperture surface mount downlight

4-inch, 12W, 61.3 lm/W

Candela Curve



Fixture: **FD4R07930KTE1W**

Output lumens: 705 lm
 Input watts: 11.5 W
 CRI: 90 min
 CCT: 3000K
 Spacing Crit.: 1.3
 Beam Angle: 112°

Zonal summary

Zone	Lumens	%Luminaire
0-30	188	27.0%
0-40	308	44.2%
0-60	544	78.2%
0-90	696	100.0%

Angle	Mean CP	Lumens
0	242	23
5	241	
10	238	
15	233	66
20	225	
25	216	99
30	204	
35	191	120
40	177	
45	161	124
50	144	
55	126	112
60	107	
65	87	86
70	68	
75	48	51
80	29	
85	12	15
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	10	6.5'
6'	7	7.8'
7'	5	9.1'
8'	4	10.4'
9'	3	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	27.8	0.51
6'	18.3	0.33
7'	13.0	0.24
8'	10.9	0.20
9'	8.7	0.16

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

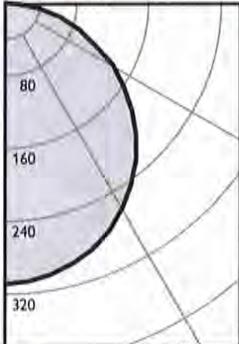
Efficacy: 61.3 lm/w
 Report#: PR7060901

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
1	109	104	99	95	101	94	97	91	93	88	83	83
2	99	90	83	77	88	76	85	75	81	73	69	69
3	90	79	71	64	77	64	74	62	72	61	58	58
4	82	70	61	54	69	54	66	53	64	52	49	49
5	75	62	53	47	61	46	59	46	57	45	43	43
6	70	56	47	41	55	40	53	40	52	40	37	37
7	65	51	42	36	50	36	49	35	47	35	33	33
8	60	46	38	32	46	32	44	32	43	31	29	29
9	56	43	34	29	42	29	41	29	40	28	26	26
10	53	39	31	26	39	26	38	26	37	26	24	24

6-inch, 14W, 71.2 lm/W

Candela Curve



Fixture: **FD6R07930KTE1W**

Output lumens: 982 lm
 Input watts: 13.8 W
 CRI: 90 min
 CCT: 3000K
 Spacing Crit.: 1.3
 Beam Angle: 113°

Zonal summary

Zone	Lumens	%Luminaire
0-30	239	26.8%
0-40	392	44.0%
0-60	694	77.9%
0-90	891	100.0%

Angle	Mean CP	Lumens
0	308	29
5	306	
10	302	
15	295	83
20	286	
25	274	126
30	260	
35	244	153
40	226	
45	206	159
50	184	
55	161	144
60	137	
65	112	111
70	87	
75	62	66
80	39	
85	17	20
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	12	6.5'
6'	9	7.8'
7'	6	9.1'
8'	5	10.4'
9'	4	11.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	35.6	0.61
6'	23.3	0.40
7'	16.7	0.29
8'	13.9	0.24
9'	11.1	0.19

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 71.2 lm/w
 Report#: PR7060903

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%
	70	50	30	10	50	10	50	10	50	10	0
Wall	70	50	30	10	50	10	50	10	50	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%										
Room Cavity Ratio	0	119	119	119	116	116	111	111	106	106	100
1	108	104	99	95	101	94	97	91	93	88	83
2	98	90	83	77	88	76	85	75	81	73	69
3	90	79	71	64	77	63	74	62	72	61	58
4	82	70	61	54	68	54	66	53	64	52	49
5	75	62	53	46	61	46	59	46	57	45	43
6	70	56	47	41	55	40	53	40	52	40	37
7	64	51	42	36	50	36	48	35	47	35	33
8	60	46	38	32	46	32	44	32	43	31	29
9	56	43	34	29	42	29	41	28	40	28	26
10	53	39	31	26	39	26	38	26	37	26	24

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

© 2017 Philips Lighting Holding B.V. All rights reserved.
 Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.



Philips Lighting North America Corporation
 200 Franklin Square Drive, Somerset, NJ 08873
 Tel. 855-486-2216

Philips Lighting Canada Ltd.
 281 Hillmount Rd, Markham, ON, Canada L6C 2S3
 Tel. 800-668-9008

TARGETTI

ZEDGE

Professional LED Small Steplight

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: [Signature]
DATE: 9/13/19
APPROVED

Concept: Minimalistic steplight design to let the architecture speak and the fixture disappear. The relationship between the vertical face and angled illuminated surfaces define a discrete product that creates a strong architectural statement.

Housing: Small 2.5" x 2.5" faceplate available in 3 emission options (Floor Washer, Louvre, or Bi-Emission Floor Washer + Halo) available in all 13 colour variants of the COLOURS range.

Materials: Die-cast anodized aluminum body fitted with a spring fixing system. Powder coated die-cast anodized aluminum external frame. Marine grade, 1.5% to 2.5% copper content in aluminum alloy.

Optics: It is available as three frames for three distinct lighting effects.

Floor Washer: A steplight with uniform optical distribution on the floor and excellent visual comfort.

Louvre: High visual comfort with the source entirely hidden from view producing defined light on the floor from two precise louver windows.

Bi-Emission: The floor washer optics combined with an indirect glow where the halo effect becomes a uniformly illuminated marker light with an opal diffuser.

Mounting: To be completed with stainless steel mounting/wiring back box with multiple attachment and wire conduit options to meet specific installation needs. Custom designed spring mounting system. Recommended mounting height is +18" A.F.F. on 48" center spacing to meet egress requirements of 1fc minimum.

Installation: Pre-cabled with 10' Belden 18ga 2 conductor direct burial cable (no conduit required).

Power Supply: Remote Class II 120V-277VAC to 24VDC power supply, up to 15 fixtures on one Class II 96W Power Supply circuit. Phase or 0-10v dimming options also available, see page 2 for LED driver options.

Wattage: 5.4W

Color Temperature: 2700K, 3000K and 4000K standard

CRI: 84

Lumen Maintenance (L70): 50,000hrs

Calculation for LED fixtures are based on measurements that comply with IES LM-80.

Voltage: 24VDC

IP Rating: IP66

Certifications: UL Listed class 2 wet location E479873

Low voltage landscape lighting. Tested in accordance with LM-79-08

Warranty: 5 year limited warranty

Designed in collaboration with Gensler as Product Design Consultant



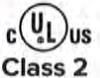
Louvre



Bi-Emission Floor Washer + Halo



Floor Washer Faceplate Shown in Ferrite Grey

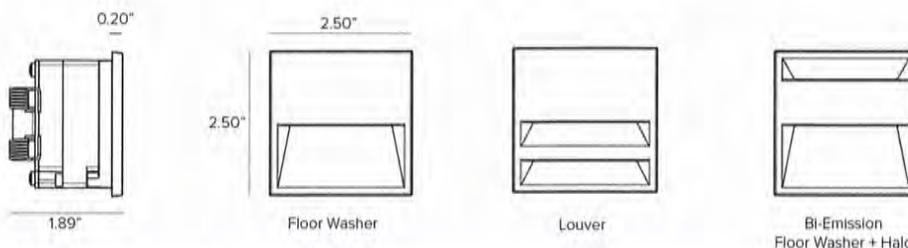


ZEDGE is available in all colour variants of the COLOURS range **Finishes listed from left to right, top to bottom:** Copper, Gold, Pink Gold, Plaster White, Silver, Ferrite, Bone, Brick, Deep Black, Rose, Sapphire, Olive, Heritage Brown.

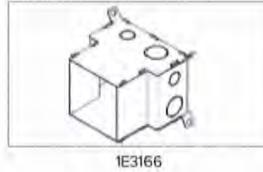
Lumens:	White Finish	
	3000K	4000K
Floor Washer =	47Lm	49Lm
Louvre =	40Lm	42Lm
Floor Washer + Halo =	33Lm	35Lm

PRODUCT CODE	DRIVER	FACEPLATE	FINISH		WATTAGE	COLOR TEMP	VOLTAGE	+	POWER SUPPLY
ZES - ZEDGE Small Step Light	RP - Remote Power	FW - Floor Washer	FE - Ferrite Grey	GO - Gold	L1 - 5.4W	27 - 2700K	24 - 24VDC		
			LV - Louvre	DB - Deep Black		PG - Pink Gold			
		BE - Bi-Emission Floor Washer + Halo	WH - Plaster White	BO - Bone	40 - 4000K				
			HB - Heritage Brown	BR - Brick					
				SI - Silver	OL - Olive				
				CO - Copper	RO - Rose				
					SA - Sapphire				

Views



INSTALLATION (REQUIRED)	
1E3166	Concrete pour back box with stainless steel outer casing fitted for parallel connection with feed through-wiring. 3/4" and 1/2" knock-outs made for 1/2" and 3/4" low voltage cable (no conduit required) Dimensions: 2 3/4"D x 2 1/4"H x 3 1/4"W



Power Supplies (REQUIRED)

Power Supplies	Type	Max Fixtures Per Driver	Wattage	Voltage	Dimmability	Listing	Dimensions
DEL-X-120-1-4-24	Electronic Power Supply in NEMA3R Enclosure	15	96W / 1X4A**	90-305V AC / 24V DC	Non-Dimmable	cULus	12"W X 12"L 4"D*
DEL-X-240-2-4-24		30	192W / 2X4A**				
DEL-X-320-3-4-24		45	288W / 3x4A**				
DEL-LPF-25-24¹	Electronic Stand-alone IP67 <i>(Listed Enclosure Provided by Others)</i>	4	25W / 1x1A**		UR Class Ij	2.67"W X 9.66"L 1.53"D	
DEL-120-1-4-24¹	Electronic Stand-alone <i>(Listed Enclosure Provided by Others)</i>	15	96W / 1X4A**				
DEL-X-120-1-4-24-D	Electronic Power Supply in NEMA3R Enclosure	15	96W / 1X4A**		Integral 0-10V Dimming Interface	cULus	12"W X 12"L 4"D*
DEL-X-240-2-4-24-D		30	192W / 2X4A**				
DEL-X-320-3-4-24-D		45	288W / 3x4A**				

¹ Installation of transformer must be compliant to Class II installation standards. Refer to NEC and local building code requirements.

* Dimensions include enclosure with mounting bracket.

** 4A maximum current protection for each secondary circuit.

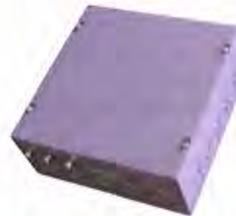
*** Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C. Consult factory for Dali and DMX options.

Electronic Drivers

For use with or without 0-10V interface (DLD-1-10) for secondary side dimming control. Generally used for programmable dimming levels for changing scenarios.



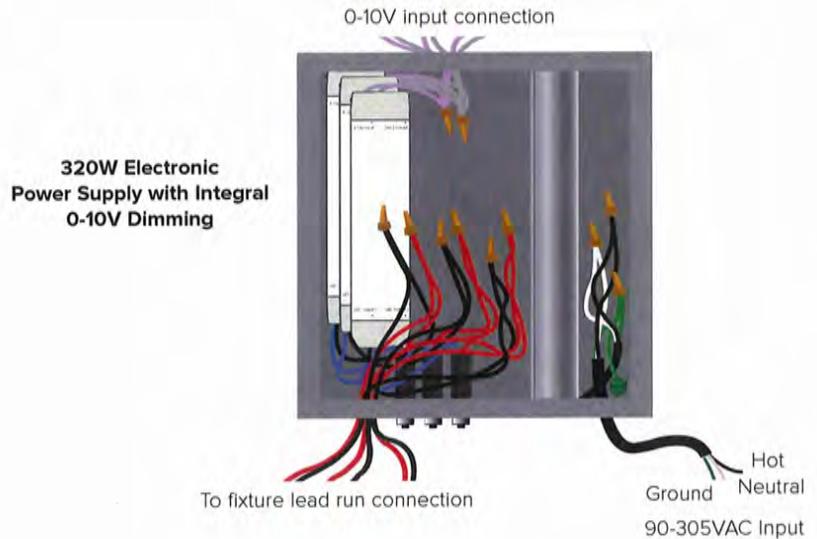
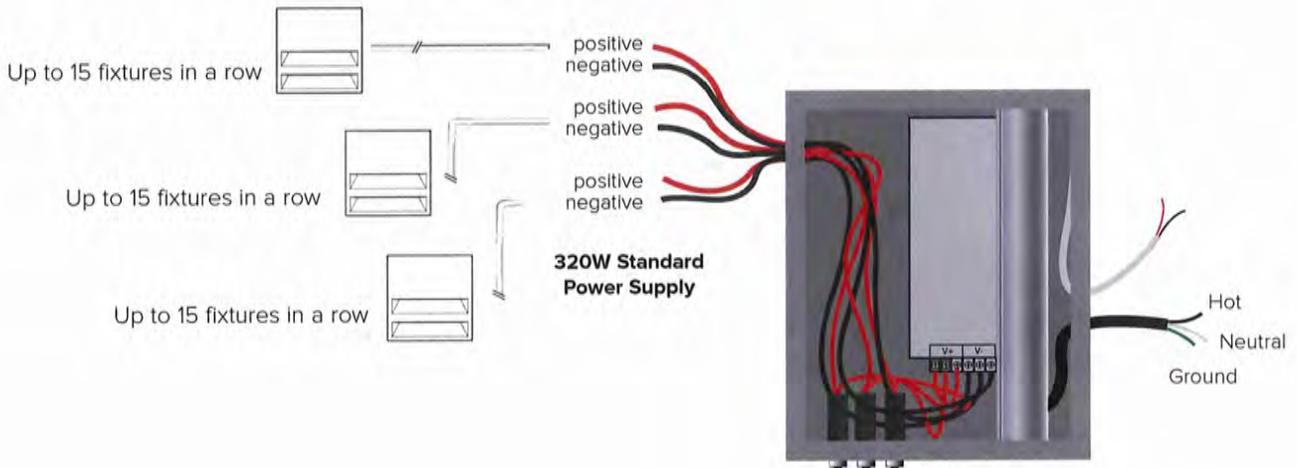
Electronic Stand-alone Driver



Enclosure with Electronic Driver

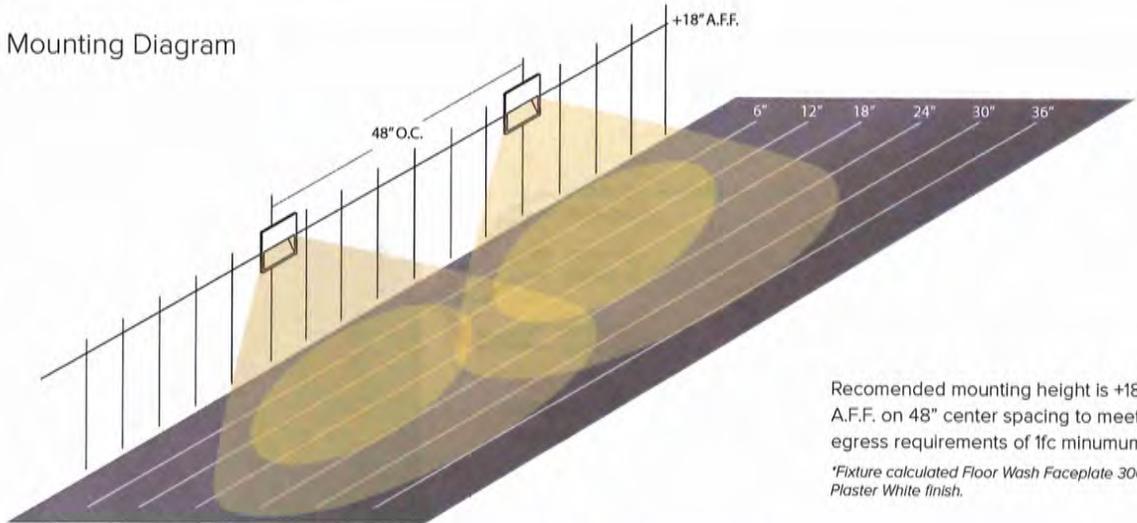
ZEDGE

System Layout Example Diagram



ZEDGE

Suggested Mounting Diagram



Recommended mounting height is +18" A.F.F. on 48" center spacing to meet egress requirements of 1fc minimum.
**Fixture calculated Floor Wash Faceplate 3000K Plaster White finish.*

Photometry

FLOOR WASHER – WHITE FINISH			POLAR GRAPH	CONE OF LIGHT		
Fixture Power	5.4W	5.4W		(Ft)	Max	Med
Fixture Output	41Lm	42Lm		0.30	ftcd	ftcd
Kelvin Temp	3000°K	4000°K		0.60	271	52
Beam Spread	Floor Washer			0.90	68	13
IMax	747.97cd/klm	747.89cd/klm		1.20	30	6
Efficacy	7.60 Lm/W	7.78 Lm/W		1.50	17	3
				11	2	
LOUVER – WHITE FINISH			POLAR GRAPH	CONE OF LIGHT		
Fixture Power	5.4W	5.4W		(Ft)	Max	Med
Fixture Output	33Lm	35Lm		0.30	ftcd	ftcd
Kelvin Temp	3000°K	4000°K		0.60	91	5
Beam Spread	Louvre			0.90	23	1
IMax	783.11cd/klm	783.21cd/klm		1.20	10	1
Efficacy	6.11 Lm/W	6.49 Lm/W		1.50	6	0
				4	0	
BE FLOOR WASHER + HALO – WHITE FINISH			POLAR GRAPH	CONE OF LIGHT		
Fixture Power	5.4W	5.4W		(Ft)	Max	Med
Fixture Output	47Lm	49Lm		0.30	ftcd	ftcd
Kelvin Temp	3000°K	4000°K		0.60	271	49
Beam Spread	Floor Washer + Halo			0.90	68	12
IMax	660.89cd/klm	660.78cd/klm		1.20	30	5
Efficacy	8.70 Lm/W	9.07 Lm/W		1.50	17	3
				11	2	



15 PROPERZI WAY
SOMERVILLE, MA
02143-3228
617-666-8585
www.johnson-roberts.com

CONCORD
HISTORIC DISTRICTS
COMMISSION
SIGNED: 
DATE: 9/5/19
APPROVED

RECEIVED

AUG 30 2019

PLANNING & LAND MGT
TOWN OF CONCORD, MA

August 30, 2019

**Application for a Certificate of Appropriateness
Demolition Statement: Concord Free Public Library**

The proposed work includes demolition of approximately 3,500 square feet of recent single-story additions and outbuildings to the rear of the circa 1797 Heywood-Benjamin House, with the historic 18th- and 19th-century two-story wings at the front of the property to remain.

All portions of the building to be demolished are single-story, toward the rear of the building, and appear to be of no historic significance. Several portions are not in keeping with the character of the historic portions of the building, and detract from them by employing incongruous materials and extending a long unadorned wall, visible from Main Street along the west side of the property.

The portions of the building to be demolished appear to be built using details of questionable durability, and do not suit the needs of the Concord Free Public Library. The portions to be demolished consist of several small spaces with low ceilings and load-bearing walls that would be difficult to reconfigure to meet the requirements for library use.

The portions of the building to be demolished appear to have been built in the last 30-35 years. The Massachusetts Historical Commission Inventory Form (#CON.39, attached), dated from June 1992, notes that "all the major wings appear on maps by 1875." The 1897 Sanborn map (attached), however, shows none of the wings to be demolished, with the exception of a small portion of the rear west ell. Architectural plans dated June 2001 (attached) show the bulk of the portion to be demolished as then-proposed new construction. This indicates that the vast majority of the portion to be demolished is recent construction of no historic value.

The portion of the rear west ell to be demolished appears to have been heavily modified over the years. The same MHC Inventory Form notes that this portion of the building "now houses a garage." The east and rear facades of the ell have been veneered in paving brick laid on its side with arched windows, which is out of character from the rest of the building. An extension of the ell, with the same brick cladding and what appears to be recent exposed framing, and a rough screened pen with a dirt floor were added further to the rear. Neither the extension nor the pen appear on the 1897 Sanborn map in their current configurations, and as such are presumed to have been constructed recently. Due to the heavy modifications, the rear portion of the ell appears to be of no historic value.

The garage is also clad in paving brick laid on its side, and appears to have been constructed since the barn visible in the 1897 Sanborn map was removed. The garage also appears to be of no historic value.



15 PROPERZI WAY
SOMERVILLE, MA
02143-3228

617-666-8585

www.johnsonroberts.com

As noted in the Description of Proposed Work (attached), the design intent is for the proposed work to fit harmoniously with the existing historic Heywood-Benjamin House and Library buildings. The portions of the addition that will extend the rear kitchen ell of the House and a second staircase at the west of the House are designed to match the existing House. The existing cladding, trim, roofing and fenestration materials and details will be extended into these areas of the addition. In terms of respecting the massing, materials, size and scale of the existing House, the addition will be an improvement over the portions of the building to be demolished.

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No: CON.39
Historic Name: Heywood, William - Benjamin, Cyrus House
Common Name:
Address: 151-153 Main St

City/Town: Concord
Village/Neighborhood: Concord Center
Local No: G9-796
Year Constructed: 1797
Architect(s): Heywood, William
Architectural Style(s): Federal
Use(s): Multiple Family Dwelling House
Significance: Architecture
Area(s): CON.DU: Main Street Historic District
Designation(s): Local Historic District (03/12/1962)
Building Materials(s): Roof: Asphalt Shingle
Wall: Wood; Wood Clapboard
Foundation: Granite; Stone, Cut



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (<http://mhc-macris.net/macrisdisclaimer.htm>)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Tuesday, June 27, 2017 at 4:04: PM

FORM B - BUILDING

Assessor's number

USGS Quad

Area(s)

Form Number

Massachusetts Historical Commission
80 Boylston Street
Boston, Massachusetts 02116

G9-796

CONCORD

DU

39

Town CONCORD

Place (neighborhood or village) _____

Concord Center

151/153 Main Street

Historic Name William Heywood House

Cyrus Benjamin House

double-house

Present _____

Original _____

dwelling; double-house

Year of Construction _____

ca. 1797

Source of Information _____

owner's records;

visual assessment

Federal period

Form _____

Architect/Builder _____

Wm. Heywood, builder

Exterior Material: _____

dressed granite

Foundation _____

Wall/Trim _____

wood clapboard

Roof _____

asphalt shingle

Outbuildings/Secondary Structures _____

shed

Major Alterations (with dates) _____

screened

porch at southeast rear; 1992: rear

extension with heavy, paneled chimney.

Condition _____

excellent

Moved no yes

Date N/A

Acres _____

one-half acre

Setting _____

Adjacent to public library

on south side of Main St. First in line of large Federal and Greek Revival residences. Long, deep open lot.



Sketch Map

Draw a map of the area indicating properties within it. Number each property for which individual inventory forms have been completed. Label streets including route numbers, if any. Attach a separate sheet if space is not sufficient here. Indicate North.



Recorded by _____

Anne Forbes;
research by Pennie Logemann
for Concord Hist. Commission

Organization _____

Date (month/day/year) _____

June, 1992

BUILDING FORM

CON. 39

ARCHITECTURAL DESCRIPTION *see continuation sheet*

Describe architectural features. Evaluate the characteristics of this building in terms of other buildings within the community.

Not only is #151/153 Main Street an extremely well-preserved house, it is important as an illustration of the work of one of Concord's many carpenter-builders of the turn of the nineteenth century, William Heywood. It is a 2 1/2-story, five-by-two-bay house with a pair of ridge chimneys. A short two-story, two-bay wing extends to the west, with a long two-story rear wing behind it. A one-story ell, which now houses a garage, further extends the extreme length of the rear wing. A second shorter cross-gabled wing, paralleling the first, projects from the southeast rear of the house. All the main wings appear on maps by 1875, and at least some of the southwest section is shown by 1852.

The windows, which are 6-over-6-sash set in projecting frames with heavy, complex-molded crowns, corroborate a Federal-period date of ca. 1790-1800 for the main structure. The main entry, however, was updated during the Italianate period, probably in the 1870's. It has a two-light glass-and-panel door with a molded surround, and a canopy on square, chamfered posts. A second entry in front of the west wing is in a shed-roofed vestibule, and appears to date to the 1830's or 1840's. (Cont.)

HISTORICAL NARRATIVE *see continuation sheet*

Discuss the history of the building. Explain its associations with local (or state) history. Include uses of the building, and the role(s) the owners/occupants played within the community.

This house is important as the home of two of Concord's builders, William Heywood and his son-in-law, Cyrus Benjamin. William Heywood (1766-1848) was both a cabinetmaker and a housebuilder, and had a shop in his yard. Among the buildings he is known to have had a hand in was the old First Parish Church, which he helped remodel in 1840. His daughter Emeline married Cyrus Benjamin (1807-) in 1837, and they apparently lived here from the time of their marriage, and owned the property after Mr. Heywood's death. Cyrus Benjamin was a mason, and for a while a partner with his brother Thomas of 41 Monument Street. They were also associated with Abner Buttrick and Thomas Ford Hunt, and Cyrus later undertook some profitable real estate ventures, as well. According to Keyes he and his son William each took half the house, added one of the ells, and built a new shop and barn.

Cyrus Benjamin is shown as the owner of this property through at least 1885. William moved to Watertown some time prior to that, and his part of the house was rented out--one of the tenants was a Mrs. Brown, who lived here with her seven daughters. Cyrus moved into his son Cyrus W.'s home on Hubbard Street, and in 1889 #151 is shown under the ownership of "S. Benjamin." (Cont.)

BIBLIOGRAPHY and/or REFERENCES *see continuation sheet*

Maps, atlases: 1830, 1852, 1856, ca. 1871, 1875, 1889, 1893, 1906.
Sanborns from 1897.

Keyes/Tolman.

Wheeler House File #M3.

Town directories and tax files.

Fondiler and Robinson, "Vernacular Carpenters."

Interview with owner, 1992.

Recommended for listing in the National Register of Historic Places. *If checked, you must attach a completed National Register Criteria Statement form.*

INVENTORY FORM CONTINUATION SHEET

Community

Property

CONCORD

Heywood/Benjamin House

Massachusetts Historical Commission
80 Boylston Street
Boston, Massachusetts 02116

Area(s) Form No.

39

ARCHITECTURAL SIGNIFICANCE, cont.

The latter entry has a 4-panel door flanked by 2/3-length sidelights, and a Greek Revival surround of molded boards with corner blocks. A 1-story polygonal bay window on the east end is probably an addition of the latter part of the nineteenth century. The house was enlarged again in 1897.

An outbuilding formerly on the property, reputed to have been William Heywood's cabinet shop, is said to have been moved just to the east to become the rear wing of the house at #46 Sudbury Road.

HISTORICAL SIGNIFICANCE, cont.

No one with that initial is listed in directories of the time; it is possible that this is a misprint, and that Cyrus Benjamin still owned the property.

The later nineteenth-century ownership of the property is somewhat unclear. By 1906 it had been acquired by artist Robertson James, who evidently rented it out. In 1893 the tenants were post-office clerk Thomas Drury and Dr. Nathaniel Kirby (who moved to Pennsylvania the next year.) After Mr. James died, the house was inherited by Mrs. Victoria Wood, wife of Richard F. Wood, and they and their family lived there for many years in the early part of this century. The house was apparently inherited by their son, Richard Barrett Wood.

CON-39

Massachusetts Historical Commission
80 Boylston Street
Boston, Massachusetts 02116

Community
CONCORD

Property Address
151 Main Street

Area(s)	FormNo.
	39

National Register of Historic Places Criteria Statement Form



Check all that apply:

- Individually eligible Eligible only in a historic district
- Contributing to a potential historic district Potential historic district

Criteria: A B C D

Criteria Considerations: A B C D E F G

Anne McCarthy Forbes

Statement of Significance by _____

The criteria that are checked in the above sections must be justified here.

This house meets the criteria for individual listing on the National Register and as part of a district of large well-preserved buildings of the late eighteenth- to early nineteenth-centuries at Concord center. For its association with two of Concord's primary builders of the eighteenth- and nineteenth- centuries, it meets Criterion A. As an intact illustration of an early Federal period house, it meets Criterion C. It possesses integrity of design, ^{location,} setting, materials, and workmanship, feeling and association.



ON. 39 ✓ # 126 ^{area} B
 Concord
 57 Main St
 Cyrus Benjamin
 al Use _____
 nt Use _____
 nt Owner private
 1800's Style _____
 e of Date guess
 tect _____
 d Altered _____

IMPORTANCE of site to area: Great Little None SITE endangered by _____

4. DESCRIPTION

FOUNDATION/BASEMENT: High Regular Low Material: _____
 WALL COVER: Wood _____ Brick Stone Other _____
 STORIES: 1 2 3 4 CHIMNEYS: 1 2 3 4 Center End Cluster Elaborate Irregular
 ATTACHMENTS: Wings Ell Shed Dependency _____ Simple/Complex
 PORCHES: 1 2 3 4 Portico Balcony _____ Recessed _____
 ROOF: Ridge Gambrel Flat Hip Mansard _____
 Tower Cupola Dormer windows Balustrade Grillwork _____
 FACADE: Gable End: Front/Side Symmetrical/Asymmetrical Simple/Complex Ornament
 Entrance: Front/Side Centered Double Features: _____
 Windows: Spacing: Regular/Irregular Identical/Varied _____
 Corners: Plain Pilasters Quoins Obscured _____

OUTBUILDINGS _____ LANDSCAPING _____

5. Indicate location of structure on map below 6. Footage of structure from street _____
 Property has _____ feet frontage on street



Recorder _____

For _____

Photo VII-13 omitted from
68-564

map in HD but
 lesser importance
 (See Reverse Side)

NOTE: Recorder should obtain written permission from Commission or sponsoring organization before using this form.

no remarkable history
 not remarkable
 architecture
 H-361 A 3
 4

FOR USE WITH IMPORTANT STRUCTURES (Indicate any interior features of note)

Fireplace

Stairway

Other

GIVE A BRIEF DESCRIPTION OF HISTORIC IMPORTANCE OF SITE (Refer and elaborate on theme circled on front of form)

kept mentally ill son in backyard chained to yell at world

REFERENCE (Where was this information obtained? What book, records, etc.)

BIBLIOGRAPHY

Original Owner: _____
Deed Information: Book Number _____ Page _____, _____ Registry of Deeds



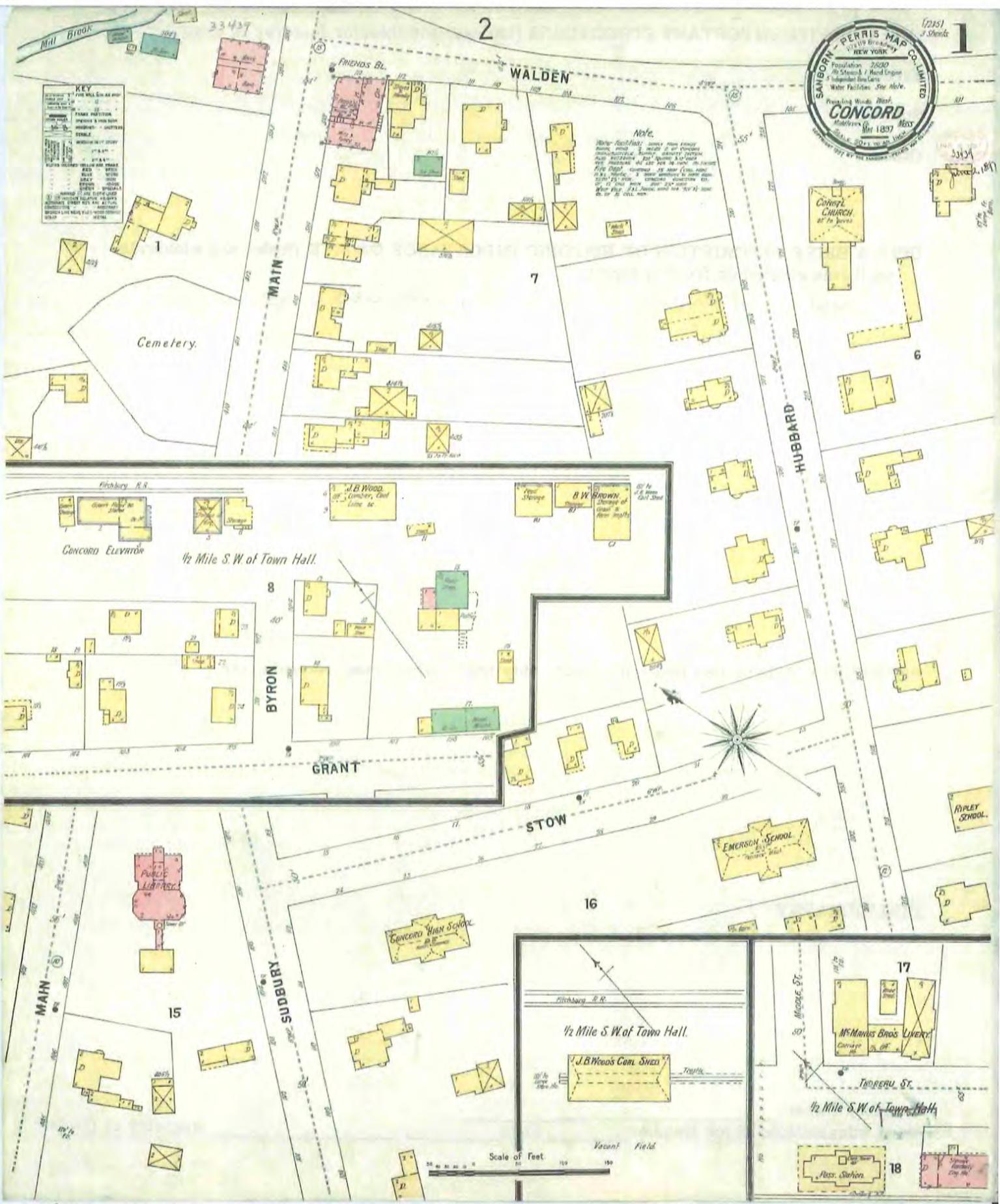
2

1

KEY

1	WOOD
2	BRICK
3	CONCRETE
4	IRON
5	STONE
6	GLASS
7	PAVEMENT
8	RAILROAD
9	WATER
10	SEWER
11	STREET
12	ALLEY
13	YARD
14	DRIVE
15	POLE
16	WIRE
17	POST
18	MARKER
19	BOUNDARY
20	UNDEVELOPED
21	WATER
22	SEWER
23	STREET
24	ALLEY
25	YARD
26	DRIVE
27	POLE
28	WIRE
29	POST
30	MARKER
31	BOUNDARY
32	UNDEVELOPED

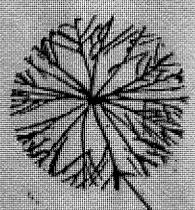
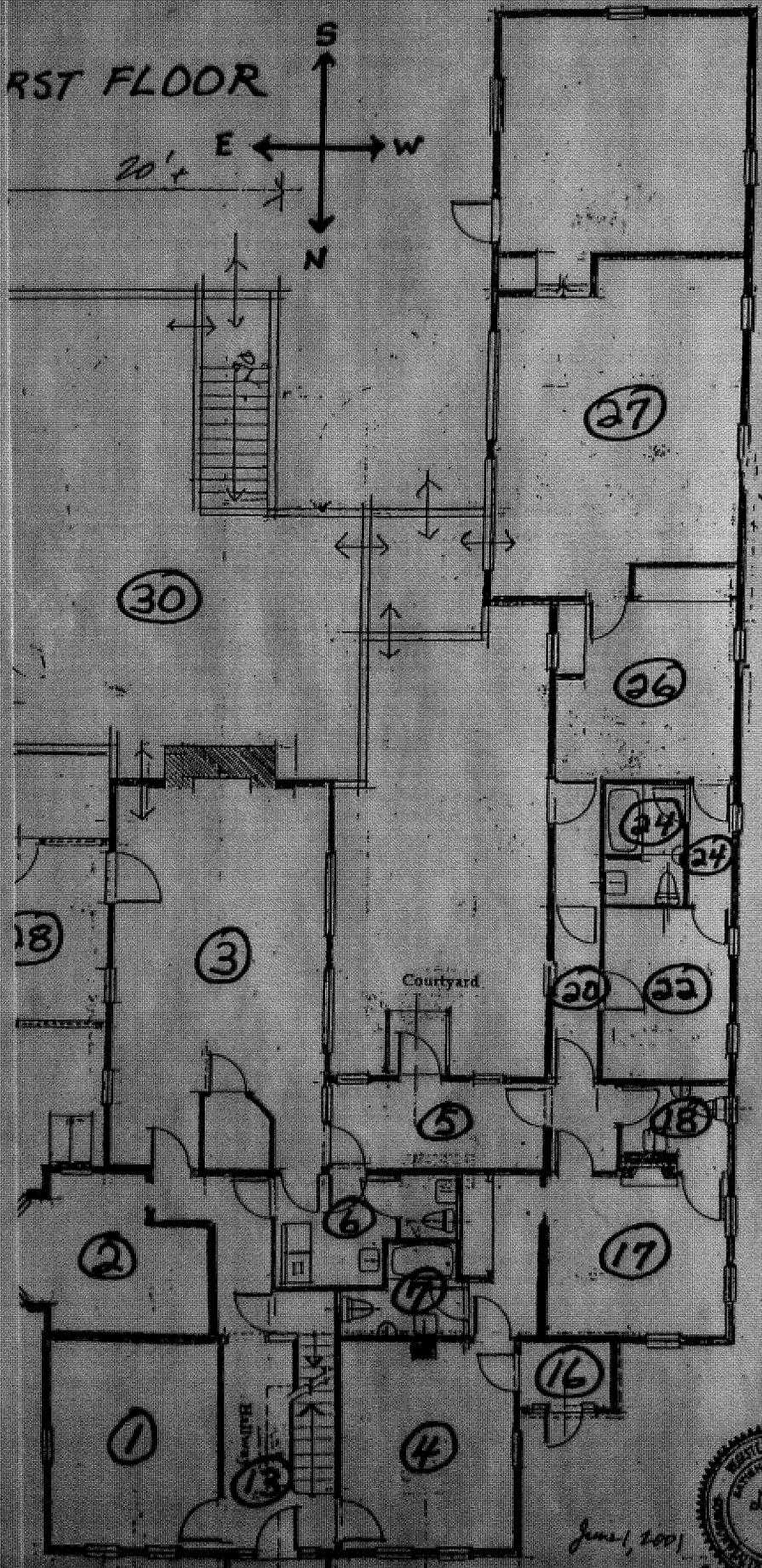
Note:
Water facilities: usually shown in green. Sewer lines: shown in blue. Gas lines: shown in red. Electric lines: shown in black. Telephone lines: shown in yellow. Fire hydrants: shown in white. Fire alarm boxes: shown in white. Fire hydrants: shown in white. Fire alarm boxes: shown in white. Fire hydrants: shown in white. Fire alarm boxes: shown in white.



Scale of Feet
0 50 100 150

1ST FLOOR

- ation
- ment over radiator
- ment (middle)
- ment (middle)
- ment (back)
- ment (front)
- ment (back)
- ment (back)
- ment (back)
- ment (middle)
- ment (middle)
- ment (back)
- ment (back)
- ment (front)
- ment (front)
- ment (front)
- ment (back)
- space
- ment (back)
- ment (back)
- ment (over boiler)
- ce under family room
- sement over radiator



Proposed large evergreen tree

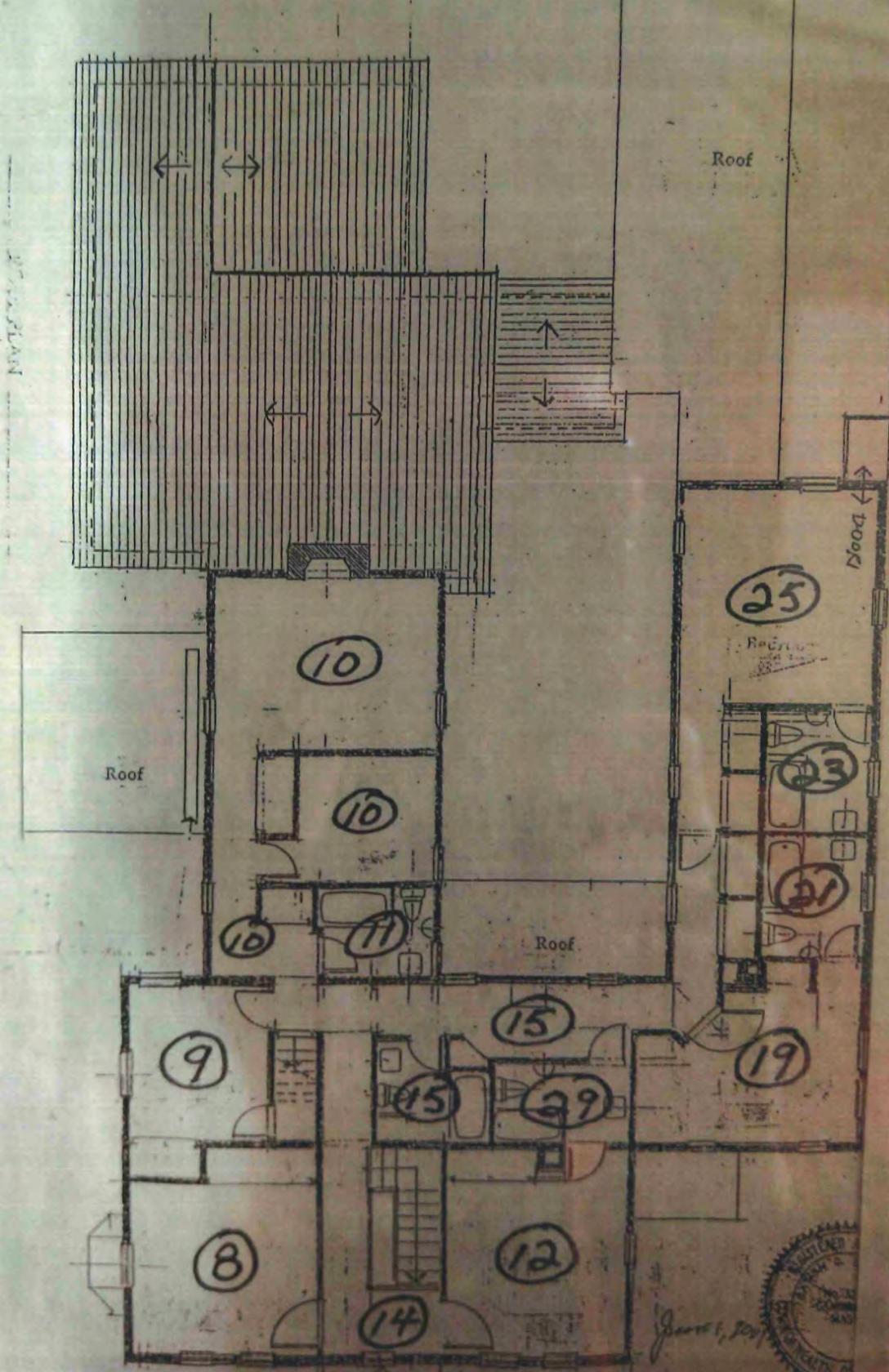
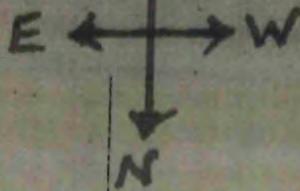
80'-0" ± TO PROPERTY LINE



June 1, 2001

Handwritten signature

SECOND FLOOR



Valve T Number

100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
80
79
78
77
76



Jan 1, 1901

John C.

HISTORIC DISTRICTS COMMISSION: NEW CONSTRUCTION CHECKLIST

OWNER NAME: Concord Free Public Library	DATE: Revised: August 30, 2019
ADDRESS: 151 Main Street	PROJECT: Library 151 Main Street

Siting	Description	Approved	Disapproved
Size	Existing Library: 41,500 GSF Existing House & outbuildings: 9,000 GSF Proposed Addition: 10,000 GSF Proposed Total: 58,000 GSF		
Height	Existing Library: 48' above grade (max) Existing Library: 27' above grade (max) Proposed: no change		
Massing(Relationship to Lot Size)	Existing FAR (129 & 151 Main St combined): .45 (33,500 GSF : 74,500 SF) Proposed FAR (129 & 151 Main St combined): .52 (39,000 GSF : 74,500 SF)		
Volume calculation of existing and proposed construction (include outbuildings).	Existing Library: 480,000 CF Existing House & outbuildings: 75,000 CF Existing Total: 555,000 CF Proposed Addition: 92,000 CF Proposed Total: 627,000 CF		
Grading Drainage	Roof runoff will be collected discharged to an infiltration chamber system. Grading modifications are minimal, and include accessibility improvements and grading associated with the addition.		
Relationship to Surroundings & Neighborhood	The addition will be set back from the existing historic buildings, allowing each to remain distinct. The height of the addition will match the height of the existing House. The addition does not overly extend toward neighboring buildings and will be partially screened by landscaping.		

Architecture

Siding/Trim Shutters	See attached Materials List and Elevations.		
Windows/ True Divided Lite	See attached Materials List and Elevations.		
Doors/Storm Hardware	See attached Materials List and Elevations.		
Chimneys Masonry	The existing chimneys will remain with no changes.		
Porches/Entries Landings	See attached Materials List and Elevations.		
Exterior Lighting Fixtures Wattage	See attached Materials List and cutsheets.		
Roof: Type:Color	See attached Materials List and Elevations.		
Gutters/ Downspouts	See attached Materials List and Elevations.		
Paint-Sample	See attached Materials List, Elevations and samples.		
Foundation Material/Exposure	See attached Materials List and Elevations.		

CONCORD
 HISTORIC DISTRICTS
 COMMISSION
 SIGNED:

Site Work

Structures (Includes lighting)	Not applicable.		
Driveway/Walks	The parking area will be constructed of 4" of bituminous concrete set on 12" of gravel base. Walkways will brick and stone dust, as shown on the plans.		
Curbing	Curbing will be granite.		
Fences/Walls Materials	See attached Landscape Plan and Proposed Fences images.		
Landscaping (Mark trees to be removed; show size & species. Describe grading plans.)	The proposed landscape design was developed by considering the existing site design and types of plantings used throughout the Library property and the functional uses of the new addition and building renovation. Similar design character and plantings have been used to create a cohesive landscape design throughout the property and to sensitively fit into the historic nature the neighborhood. See attached Proposed Plants images.		

DATE: 9/5/19
 APPROVED

RECEIVED