

## **Burlington Design Advisory Board**

645 Pine Street  
Burlington, VT 05401  
[www.burlingtonvt.gov/DPI/DAB](http://www.burlingtonvt.gov/DPI/DAB)  
Phone: (802) 865-7188

Matthew Bushey  
Ron Wanamaker  
Tom Cullins  
Eric Morrow  
Karyn Norwood  
vacant Alt.  
vacant, Alt.



### **DESIGN ADVISORY BOARD Tuesday October 27, 2020 3:00 PM REMOTE MEETING**

Zoom: <https://us02web.zoom.us/j/85277864849?pwd=aUJCelQyT0F1bGx5b2paNTRMSk5YQT09>

Webinar ID: 852 7786 4849

Password: 923553

Call in telephone: US: +1 312 626 6799 or +1 929 205 6099 or +1 301 715 8592 or +1 346 248 7799 or  
+1 669 900 6833 or +1 253 215 8782

### **Agenda**

#### **Session I – 3:00 PM – 3:30 PM**

**21-0329CA; 323-325 College Street (RH, Ward 8E) Green Castle LLC, Aloha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, and Elizabeth Demas IRA**  
Construction of 4-unit building addition with associated utility work and minor grading.

#### **Session II – 3:30 PM – 4:00 PM**

**21-0358CA/CU; 40 Kingsland Terrace (RL, Ward 6S) Kellen Brumsted**  
Demolish existing garage and construct new garage with ADU and related site work.  
Rear yard setback variance request also included.

#### **Session III – 4:00 PM – 4:30 PM**

**21-0409CA/MA; 362-374 Riverside Avenue (NAC-R, Ward 1E) Doug & Katherine Boyden / Blackrock Construction**  
Construct 64-unit senior housing facility and related site work and lot mergers.

#### **Non-Discrimination**

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*The programs and services of the City of Burlington are accessible to people with disabilities. Individuals who require special arrangements to participate are encouraged to contact the Department of Permitting & Inspections at least 72 hours in advance so that proper accommodations can be arranged. For information call 865-7188.*

*Non-Discrimination*

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## Department of Permitting and Inspections

Zoning Division  
645 Pine Street  
Burlington, VT 05401  
[www.burlingtonvt.gov/pz](http://www.burlingtonvt.gov/pz)  
Phone: (802) 865-7188  
Fax: (802) 865-7195

William Ward, Director  
Scott Gustin, AICP, CFM, Principal Planner  
Mary O'Neil, AICP, Principal Planner  
Ryan Morrison, Associate Planner  
Layne Darfler, Planning Technician  
Alison Davis, Zoning Clerk  
Theodore Miles, Zoning Specialist  
Charlene Orton, DPI Administrator



## MEMORANDUM

**To:** The Design Advisory Board  
**From:** Mary O'Neil, AICP, Principal Planner  
**RE:** ZP21-0358CA/CU; 40 Kingsland Terrace  
**Date:** October 27, 2020

**File:** ZP21-0358CA/CU  
**Location:** 40 Kingsland Terrace  
**Zone:** RL **Ward:** 6S  
**Parking District:** Neighborhood  
**Date application accepted:** October 1, 2020  
**Applicant/ Owner:** Katie Menson, Kellen Brumsted  
**Request:** Demolish existing garage; construct new garage with 616 sf. Accessory Dwelling Unit (ADU.)

### Background:

- **Zoning Permit 20-0762FC;** fencing. Approved March 2020.
- **Zoning Permit 19-0905CA;** install garage door. Approved May 2019. Application withdrawn.
- **Zoning Permit 09-173CA;** two storey rear addition, rear decks and patios to be removed. Approved September 2008.
- **Zoning Permit 90-085;** construct kitchen and deck addition. Approved March 1990.
- **Request to the ZBA for a variance from the side yard setback** for the purpose of constructing a greenhouse. Hearing dates October 28, November 18 and December 2, 1982. Variance request **denied** by ZBA, January 1983.
- **Zoning Permit 81-498;** stockade fence. Approved May 1981.
- **Zoning Permit 79-497;** take in 2 persons to fill existing two bedrooms as roomers. Approved August 1979.
- **Zoning Permit (n.n.);** install driveway gate. Approved May 1978.



- **Zoning Permit (n.n.);** erect stockade fence in rear yard. Approved May 1977.

**Overview:** The applicants propose to demolish an existing garage (listed within the South Union Street Historic District, on the National Register of Historic Places) and replace it with a new garage/ADU. As demolition of an historic building is included, the project is subject to Conditional Use review by the Development Review Board.

**Please note:** the proposed replacement building is within a required rear yard setback, exceeding the footprint of the existing garage. The applicants are requesting a variance from the required rear yard setback.

### **Part 1: Land Division Design Standards**

No land division is proposed. Not applicable.

### **Part 2: Site Plan Design Standards**

#### **Sec. 6.2.2 Review Standards**

##### **(a)Protection of Important Natural Features:**

There is a landscaping hedge to the east, and (from aerial images) a mature tree to the west of the development site. The application does not include any tree removal or regrading of the site.

##### **(b) Topographical Alterations:**

No topographical alterations are included within the application plans.

##### **(c)Protection of Important Public Views:**

There are no protected views from or across the site. Not applicable.

##### **(d) Protection of Important Cultural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Archeological sites likely to yield information important to the city's or the region's pre-history or history shall be evaluated, documented, and avoided whenever feasible. Where the proposed development involves sites listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8(b).*

See Section 5.4.8, below.

##### **(e) Supporting the Use of Renewable Energy Resources:**

No part of this application would preclude the use of wind, water, solar, geothermal, or other renewable energy resources.

##### **(f) Brownfield Sites:**

40 Kingsland Terrace is not listed on the Department of Environmental Conservation's list of Brownfield sites. Not applicable.

##### **(g) Provide for nature's events:**

*Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site*

*disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.*

An EPSC plan has been forwarded to the Stormwater engineering division for review. Their written approval will be a condition of any permit.

*Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.*

A door on the west elevation is sheltered by an overhanging second story deck. The south entrance is within a small entry alcove, also providing shelter to residents.

**(h) Building Location and Orientation:**

The proposed replacement building is situated behind the primary residence; consistent with accessory structures. The principal entrance faces the front (south). A concerning issue is encroachment within a required rear yard setback; failing to meet dimensional standards of the ordinance.

**(i) Vehicular Access:**

Vehicular access is proposed to continue as existing; from Kingsland Terrace. The driveway is proposed to be widened (although the plan does not provide that dimension.) Driveways are limited to 18' in width.

**(j) Pedestrian Access:**

The plan assumes pedestrian access from the driveway. The driveway should physically isolate a pedestrian path to separate vehicular circulation from pedestrian.

**(k) Accessibility for the Handicapped:**

ADA jurisdiction is with the building inspector.

**(l) Parking and Circulation:**

The existing driveway will remain, albeit widened at the point to connection to the new garage/ADU. The required 2 parking spaces will be met with one in the new garage and one in front of it. The Zoning Amendment relative to ADUs eliminated the requirement for a parking space for the new unit.

**(m) Landscaping and Fences:**

No landscaping plan has been submitted with the application. The applicant shall provide an intended planting schedule and/or fencing changes prior to review by the Development Review Board.

**(n) Public Plazas and Open Space:**

There is no requirement for a public plaza with this application. The rear yard will provide reasonable open space for the enjoyment of the residents.

**(o) Outdoor Lighting:**

*Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.*

Recessed lighting is proposed for the entryway porch, under the westerly deck and at the 2<sup>nd</sup> story door. Modeled images and elevations show a gooseneck style lamp over the garage door. All are of residential character and will downlight the immediately area.

**(p) Integrate infrastructure into the design:**

*Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.*

*Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be place underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.*

A mailbox is proposed within the front entry porch (although it is not clear whether the postal carrier will walk that far back on the lot to deliver mail.) A meter pack is illustrated on the easterly elevation. All utilities must be undergrounded.

*Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 4 Performance Standards.*

There are no identified nuisance impacts that might emit heat, vapor, fumes, vibration, or noise. Not applicable.

### **Part 3: Architectural Design Standards**

#### **Sec. 6.3.2 Review Standards**

##### **(a) Relate development to its environment:**

##### **1. Massing, Height and Scale:**



The proposed gambrel-roofed building is larger than the existing garage it proposes to replace; but reflects a relationship to the principal dwelling in style. The location behind the single family home and at the end of a dead-end street reduces the visual impacts of the larger structure.

##### **2. Roofs and Rooflines.**

The Gambrel roof with matching dormers looks a great deal like the existing single family home in design and scale.

##### **3. Building Openings**

Windows are either double hung or awning with muntin patterns recalling the principal home. No spec sheet has been provided for the entry doors. The garage doors look to resemble paired carriage house doors.



Principal structure, 40 Kingsland Terrace

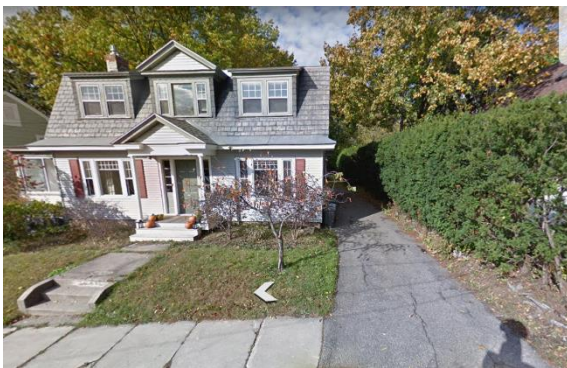
**(b) Protection of Important Architectural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings. See Section 5.4.8.*

**(c) Protection of Important Public Views:**

There are no protected important public views from this location. Not applicable.

**(d) Provide an active and inviting street edge:**



There is no visibility (from Google images) of this replacement structure from the public right-of-way. (See image, left.)

**(e) Quality of materials:**

*All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets,*

*sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.*

Sheathing is proposed to be wood clapboard with wood trim. Windows are aluminum clad. The deck will feature a cable gyardrail with wood cap.

*Owners of historic structures are encouraged to consult with an architectural historian in order to determine the most appropriate repair, restoration or replacement of historic building materials as outlined by the requirements of Art 5, Sec. 5.4.8.*

This is a replacement building for one listed on the National Register of Historic Resources; but it is not a reconstruction. It is entirely new design and fabrication that does not intend to replicate the original building. See Section 5.4.8, below.

**(f) Reduce energy utilization:**

All new construction is required to meet the Guidelines for Energy Efficient Construction per the requirements of Article VI, Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

**(g) Make advertising features complementary to the site:**

No signage is included with this application. Not applicable.

**(h) Integrate infrastructure into the building design:**

See Section 6.2.2. (p), above.

**(i) Make spaces secure and safe:**

New construction must meet all applicable building and life safety code as defined by the building inspector and fire marshal.

**Sec. 5.4.8 Historic Buildings and Sites**

*The City seeks to preserve, maintain, and enhance those aspects of the city having historical, architectural, archaeological, and cultural merit. Specifically, these regulations seek to achieve the following goals:*

*To preserve, maintain and enhance Burlington's historic character, scale, architectural integrity, and cultural resources;*

*To foster the preservation of Burlington's historic and cultural resources as part of an attractive, vibrant, and livable community in which to live, work and visit;*

*To promote a sense of community based on understanding the city's historic growth and development, and maintaining the city's sense of place by protecting its historic and cultural resources; and,*

*To promote the adaptive re-use of historic buildings and sites.*

**(a) Applicability:**

*These regulations shall apply to all buildings and sites in the city that are listed, or eligible for listing, on the State or National Register of Historic Places.*

40 Kingsland Terrace (home and garage, Resources 28 and 28A) are within the South Union Street Historic District on the National Register of Historic Resources. See attached narrative. Therefore, the following standards apply:

**(b) Standards and Guidelines:**

*The following development standards, following the Secretary of the Interior's Standards for the Treatment of Historic Properties, shall be used in the review of all applications involving historic buildings and sites subject to the provisions of this section and the requirements for Design Review in Art 3, Part 4. The Secretary of the Interior's Standards are basic principles created to help preserve the distinctive character of a historic building and its site. They are a series of concepts about maintaining, repairing and replacing historic features, as well as designing new additions or making alterations. These Standards are intended to be applied in a reasonable manner, taking into consideration economic and technical feasibility.*

1. *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*

No alterations are proposed to the principal structure within this application. The rear garage, constructed c. 1923, will be demolished and replaced with a much larger structure. Although the new building will also serve as a garage, the demolition of the original is a loss of original materials, features, spaces and spatial relationships that characterize the property.

2. *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.*

Building demolition is the opposite of retention and preservation.

3. *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

The existing, small scale accessory structure is distinctly an element of its period of construction. Its demolition and replacement with a much larger building that mimics the style and size of the original home is contrary to this standard.

4. *Changes to a property that have acquired historic significance in their own right will be retained and preserved.*

Demolition is contrary to retention and preservation.

5. *Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*

Demolition does not afford the opportunity to retain any such features or finishes.

6. *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials recognizing that new technologies may provide an appropriate alternative in order to adapt to ever changing conditions and provide for an efficient contemporary use. Replacement of missing features will be substantiated by documentary and physical evidence.*

The proposal is not based in repair or replacement of deteriorated historic features, but wholesale building removal and replacement with a larger structure. The new features will bear little relationship to the existing accessory structure.

7. *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

Demolition is the greater caliber of destructive physical treatment.

8. *Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.*

No archaeological resources have been identified at this location. If discovery is made during the redevelopment, construction will cease while appropriate authorities are notified and resources are evaluated, assessed, and appropriate disposition determined.

9. *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*

New construction proposed here is grounded in the removal of a listed historic structure. While an attractive structure, it is not compatible with the historic size, scale proportion and massing of the original building it replaces.

10. *New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

A new accessory structure behind the principal building at 40 Kingsland Terrace will not diminish the historic integrity of that residential structure; but in every sense it will eliminate the essential form and integrity of the existing garage. Absent reconstruction matching its form, details and integrity, the development cannot be determined to be reversible.

Section 5.4.8 (d) details the requirements for review by the Development Review Board of a proposed demolition of a listed historic structure.

**Items for the Board's consideration:**

1. The plan does not meet required dimensional standards regarding rear yard setback. As proposed, the project cannot be approved.
2. A segregated pedestrian path shall be introduced to the new structure to separate vehicular and pedestrian traffic.
3. Driveways are limited to 18' in width.
4. No landscaping plan has been submitted with the application. The applicant shall provide an intended planting schedule and/or fencing changes prior to review by the Development Review Board.
5. All utilities must be undergrounded.
6. All new construction is required to meet the Guidelines for Energy Efficient Construction per the requirements of Article VI, Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.
7. Approval of the Erosion Prevention and Sediment Control Plan will be a condition of any approval.
8. Standard Conditions for an ADU will be included if approved.
9. Standard Permit Conditions 1-15 if approved.



**ZONING DISTRICT: RL**

MAX. LOT COVERAGE = 35%  
 MAX. COVERAGE FOR PATIOS, DECKS, PORCHES, TERRACES:  
 \*ADDITIONAL 600 S.F. COVERAGE ALLOWED FOR ADU  
 FRONT YARD: 10% OF LOT WIDTH, BUT NO EVENT LESS THAN 5'-0"  
 SIDE: 10% OF LOT WIDTH, BUT NO EVENT LESS THAN 5'-0"  
 REAR: 25% OF LOT DEPTH, BUT NO EVENT LESS THAN 20'-0"

**EXISTING LOT COVERAGE**

EXISTING LOT SIZE: 9,312 S.F.  
 EXISTING HOUSE: 1,276 S.F.  
 EXISTING PORCHES: 288 S.F.  
 EXISTING WALKWAY: 27 S.F.  
 EXISTING GARAGE: 300 S.F.  
 EXISTING DRIVEWAY: 920 S.F.  
 EXISTING LOT COVERAGE = 2,781 S.F. = 29.86%  
 WITHOUT PORCHES = 2,543 S.F. = 27.30%

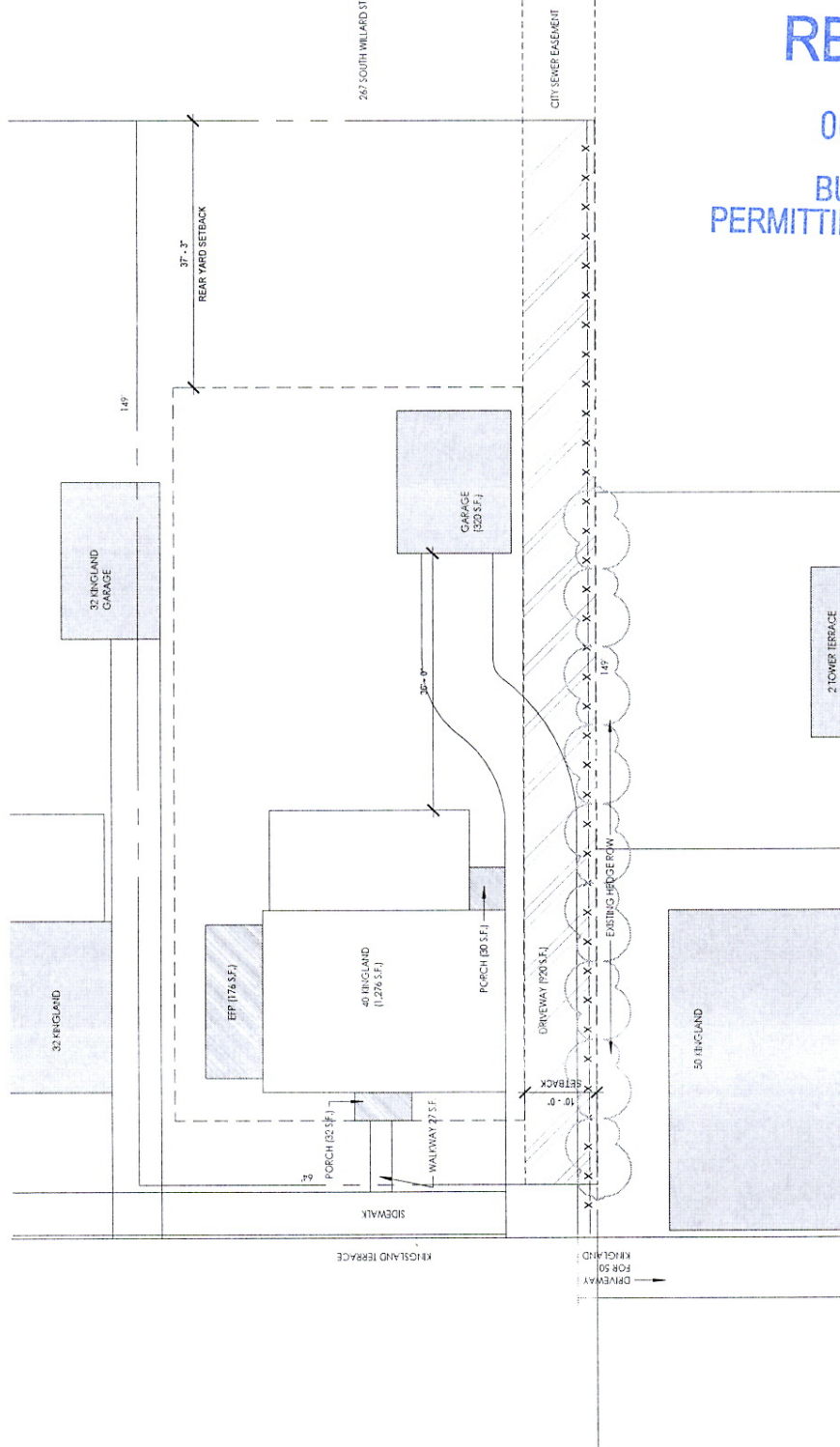
**PROPOSED LOT COVERAGE**

LOT SIZE: 9,312 S.F.  
 EXISTING HOUSE: 1,276 S.F.  
 EXISTING PORCHES: 288 S.F.  
 ADU PORCHES: 34 S.F.  
 EXISTING WALKWAY: 27 S.F.  
 EXISTING GARAGE / ADU: 770 S.F.  
 DRIVEWAY: 1,008 S.F.  
 PROPOSED LOT COVERAGE = 3,353 S.F. = 36%  
 WITHOUT PORCHES = 3,081 S.F. = 33%  
 600 S.F. COVERAGE ALLOWED FOR ADU = 287 S.F.  
 COVERAGE NEEDED

\*Lot area is based off tax parcel map

**DRAWING KEY**

- EXISTING STRUCTURE
- EXISTING PORCH
- GARAGE / ADU
- PROPERTY LINE
- SETBACK LINE
- EASEMENT SETBACK LINE
- EASEMENT AREA
- FENCE LINE



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Existing



**MENSON AND BRUMSTED - ADU**

40 KINGSLAND TERRACE BURLINGTON, VT

DATE: 03/14/20  
 SCALE: As indicated  
 DRAWN BY: MA  
 CHECKED BY: MA  
 PHASE: A.01

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**ZONING DISTRICT: R1**

- MAX LOT COVERAGE = 35%
- MAX OVERHANG FOR PORCHES, TERRACES, PATIOS, DECKS, ETC. = 4'-0"
- ADDITIONAL 60 S.F. COVERAGE ALLOWED FOR ADUs
- FRONT: AVE. OF 2 ADJACENT LOTS ON BOTH SIDE +/- 5'-0"
- SIDE: 10% OF LOT WIDTH, BUT NOT LESS THAN 5'-0"
- REAR: 25% OF LOT DEPTH, BUT NOT LESS THAN 20'-0"

**EXISTING LOT COVERAGE**

- EXISTING LOT SIZE: 9,312 S.F.
- EXISTING HOUSE: 1,276 S.F.
- EXISTING PORCHES: 238 S.F.
- EXISTING WALKWAY: 27 S.F.
- EXISTING DRIVEWAY: 320 S.F.
- EXISTING DRIVEWAY: 920 S.F.
- EXISTING LOT COVERAGE = 2,781 S.F. = 29.86%
- WITHOUT PORCHES = 2,543 S.F. = 27.30%

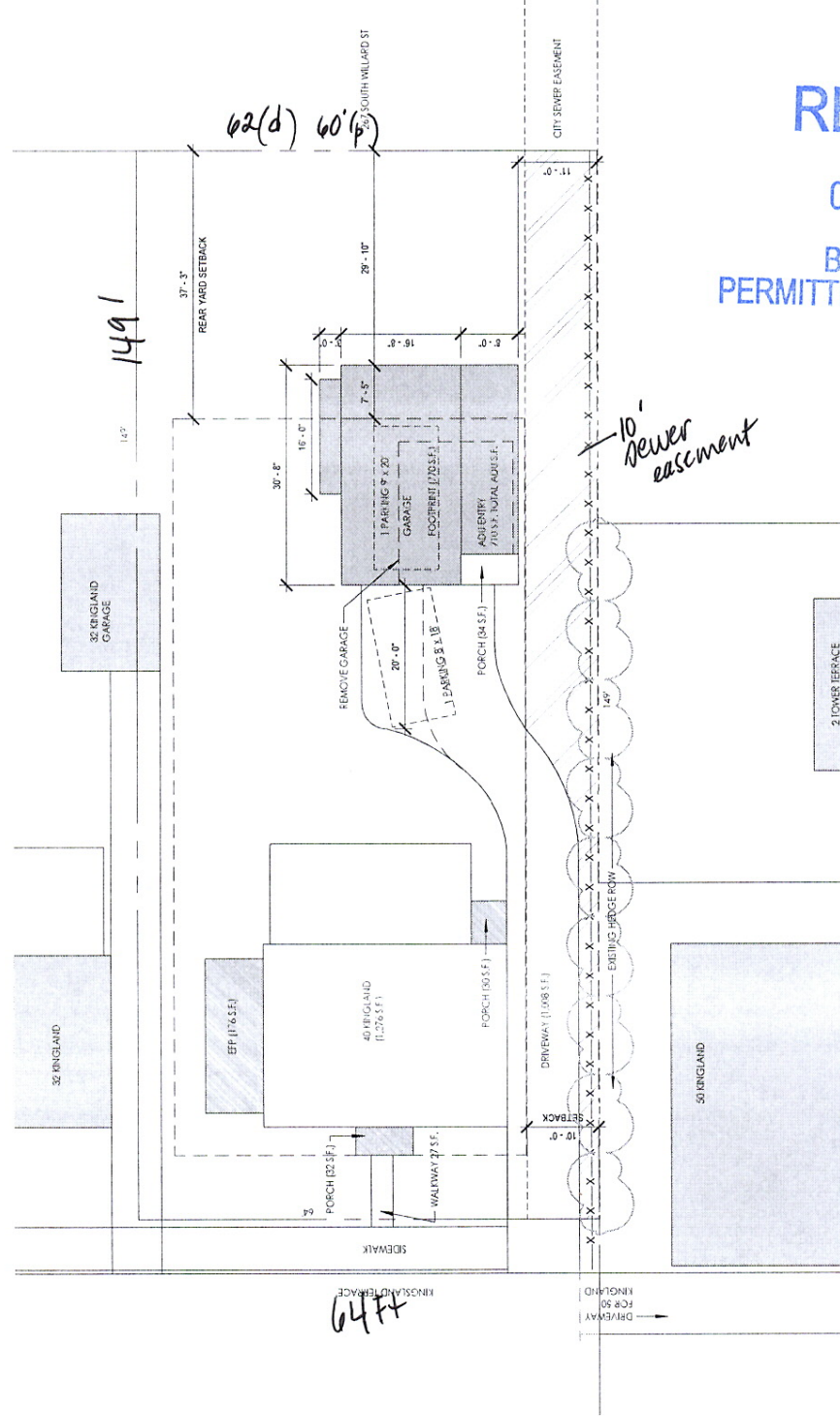
**PROPOSED LOT COVERAGE**

- LOT SIZE: 9,312 S.F.
- EXISTING HOUSE: 1,276 S.F.
- EXISTING PORCHES: 238 S.F.
- ADU PORCH: 34 S.F.
- EXISTING WALKWAY: 27 S.F.
- EXISTING DRIVEWAY: 320 S.F.
- EXISTING DRIVEWAY: 1,008 S.F.
- PROPOSED LOT COVERAGE = 3,333 S.F. = 36%
- WITHOUT PORCHES = 3,091 S.F. = 33%
- 400 S.F. OVERAGE ALLOWED FOR ADU = 287 S.F.
- OVERAGE NEEDED

\*All area is based off lot parcel map

**DRAWING KEY**

- EXISTING STRUCTURE
- EXISTING PORCH
- GARAGE / ADU
- PROPERTY LINE
- SETBACK LINE
- EASEMENT SETBACK LINE
- EASEMENT AREA
- FENCE LINE



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**MENSON AND BRUMSTED - ADU**

40 KINGSLAND TERRACE BURLINGTON, VT



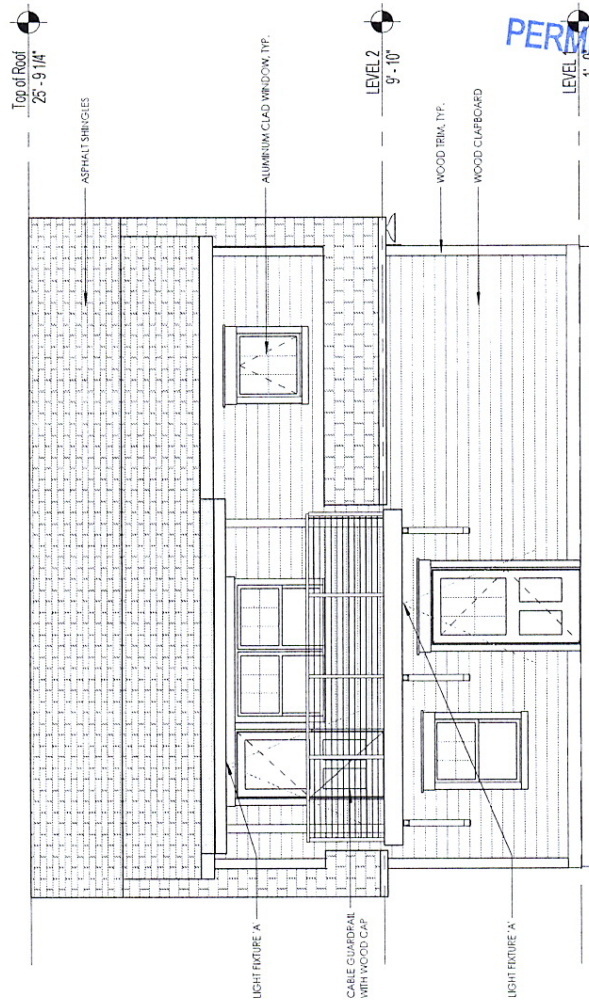
SITE PLAN -  
PROPOSED  
A.02

DATE: 07/30/20  
SCALE: As indicated  
DRAWN BY: MA  
CHECKED BY: MA  
PHASE:

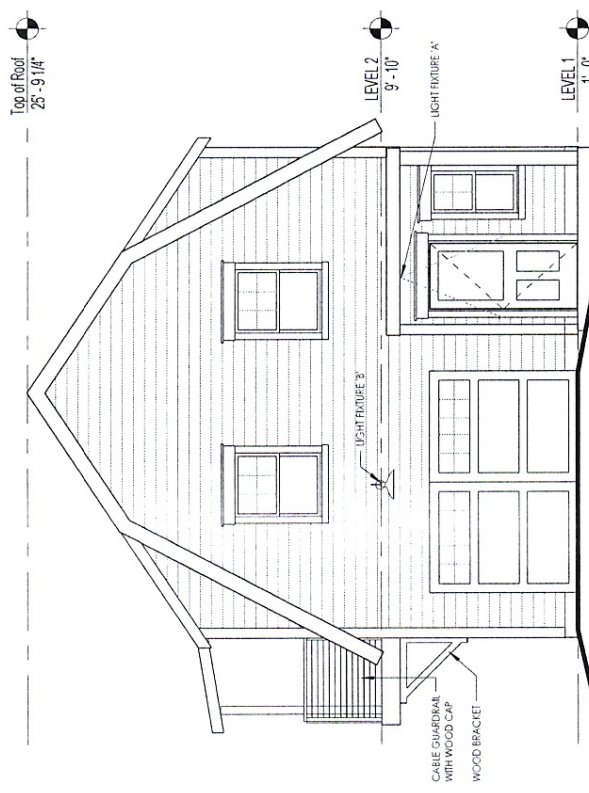


*proposed*





WEST ELEVATION



SOUTH ELEVATION

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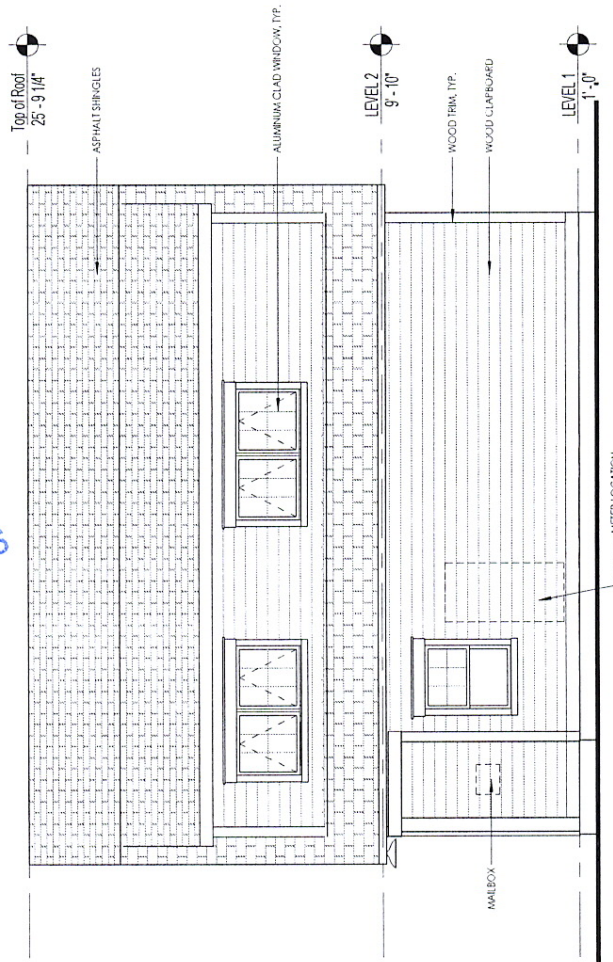
# MENSON AND BRUMSTED - ADU

40 KINGSLAND TERRACE BURLINGTON, VT

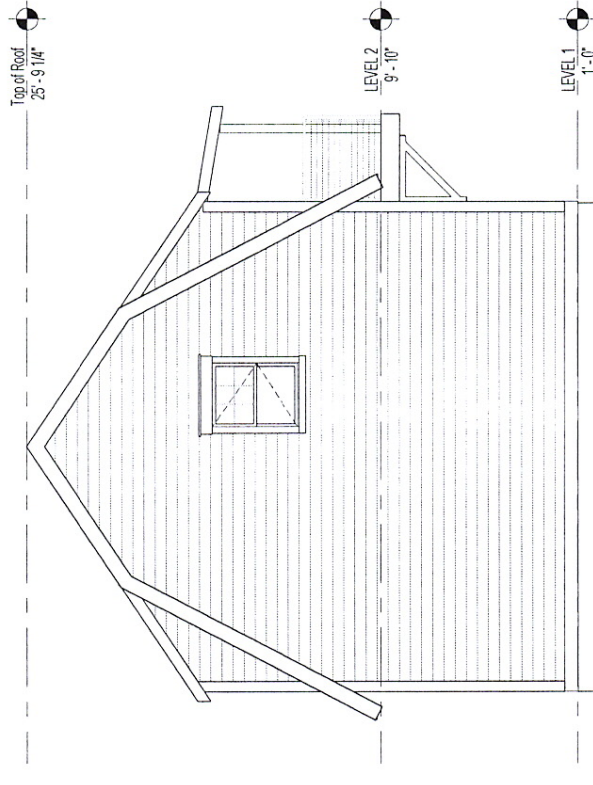
| DATE       | 07/29/20      | ELEVATIONS |
|------------|---------------|------------|
| SCALE      | 3/16" = 1'-0" |            |
| DRAWN BY   | MA            |            |
| CHECKED BY | MA            |            |
| PHASE      |               | A.20       |

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EAST ELEVATION



NORTH ELEVATION

# MENSON AND BRUMSTED - ADU

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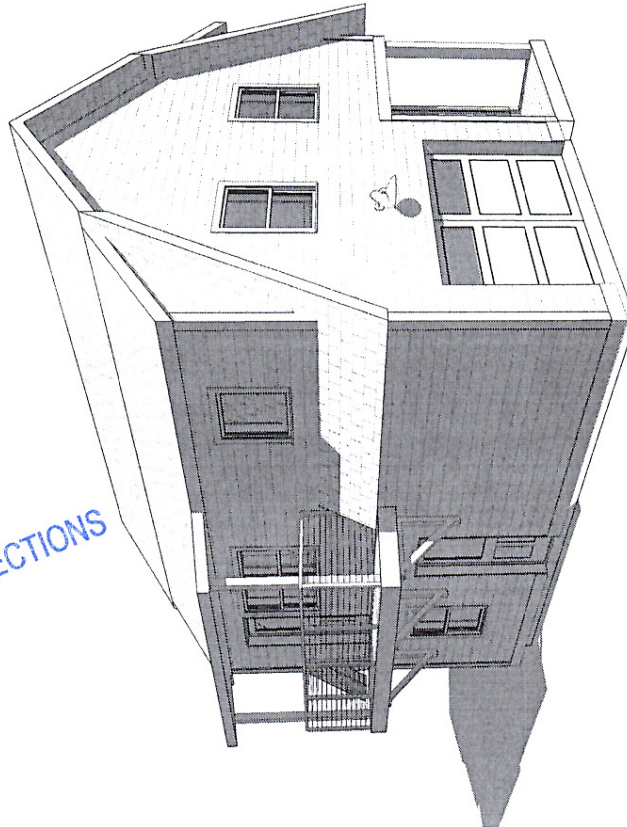
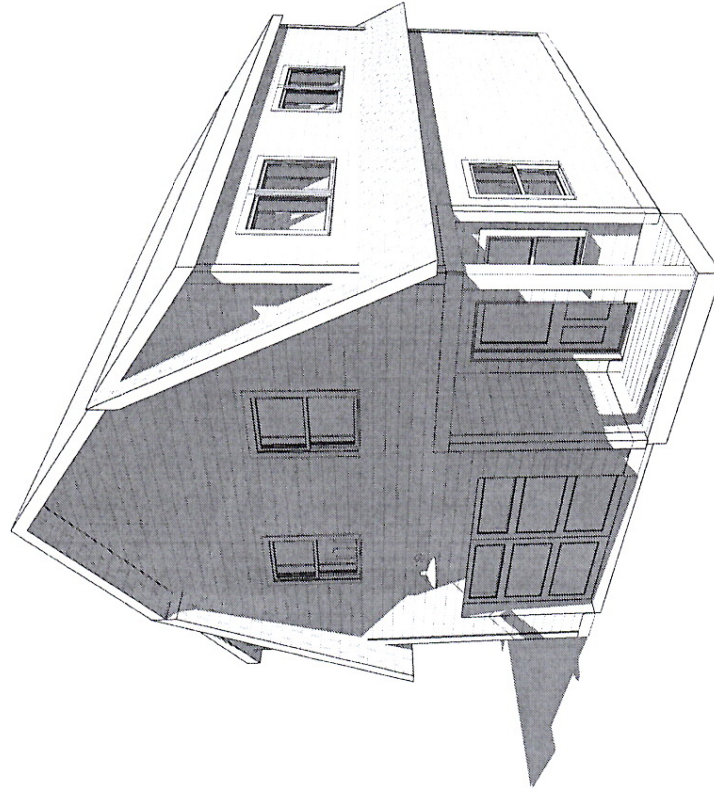
|                      |            |
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| DATE: 07/30/20       | ELEVATIONS |
| SCALE: 3/16" = 1'-0" |            |
| DRAWN BY: MA         |            |
| CHECKED BY: MA       |            |
| PHASE:               | A.21       |

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NOTE: 3D IMAGES DEPICT GENERAL IMAGING. REFER TO ELEVATIONS FOR DETAIL OF WINDOWS, ETC.

# **MENSON AND BRUMSTED - ADU**

40 KINGSLAND TERRACE BURLINGTON, VT



HINGE  
 427 Pine Street, Suite 104, Burlington, VT 05401  
 802.732.1444

|             |          |          |
|-------------|----------|----------|
| DATE        | 07/30/20 | 3D VIEWS |
| SCALE       |          |          |
| DRAWN BY:   | MA       |          |
| CHECKED BY: | MA       | A.30     |
| PHASE       |          |          |

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## FEATURES & SPECIFICATIONS

**INTENDED USE** — Recessed housing rated IC or Non-IC. For new construction only.

Approved for all ceiling and wiring types.

Approved for direct burial in insulation.

**CONSTRUCTION** — Air-tight standard. Tested to meet current energy codes.

Aluminum foam-gasketed housing with galvanized steel pan.

Galvanized bar hangers span up to 24" o.c. and feature stepped shank nail and positioning guide with integral T-bar locks. Two locking screws hold fixture in position.

Galvanized steel junction box with four built-in Romex clamps. Four 1/2" and two 3/4" knockouts with slots for pryout. Rated for through branch wiring.

Maximum 4 (2 in, 2 out) No. 12 AWG conductors. Rated for 90°C.

Ground wire provided.

Removable J-box doors for easy access.

**ELECTRICAL** — Quick disconnect provided for power connection to the LED modules.

Paint overspray masked by disposable disconnect plug.

Housing and LED module combination is IC rated and thermally protected.

120 volt only.

**INSTALLATION** — Air-tight housing suitable for air-tight installations. Refer to energy codes for proper installations.

2x8 and 2x6 wood joist or T-bar installation.

Expandable bar hangers allow for off-center mounting in wood joist or T-bar ceilings. Length of 25-1/2" maximum 13-1/4" minimum or cut to fit 5-1/2" on center joist construction.

Vertical adjustment of housing allows for flush mounting with ceiling face.

Suitable for ceilings up to 1-1/2" thick.

**LISTINGS** — UL Listed to US and Canadian safety standards. Damp location listing (See trim selection for wet location listing).

**WARRANTY** — 1-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

Note: Actual performance may differ as a result of end-user environment and application.

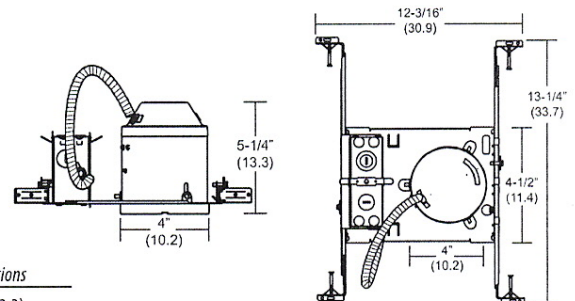
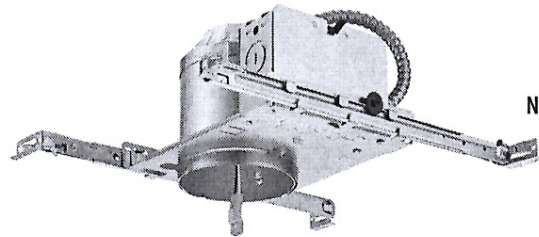
Specifications subject to change without notice.

|                |
|----------------|
| Catalog Number |
| Notes          |
| Type           |

4" LED Housing

# L3LED T24

LED  
IC/Non-IC  
New Construction



### Specifications

Height: 5-1/4 (13.3)

Length: 13-1/4 (33.7)

Width: 12-3/16 (30.9)

Ceiling opening: 4 (10.2)

All dimensions are inches (centimeters) unless otherwise specified.

### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

Example: L3LED T24

| Series    | Options                                                             | Packaging                                     |
|-----------|---------------------------------------------------------------------|-----------------------------------------------|
| L3LED T24 | <b>Shipped installed in fixture</b><br>PHC Poke-home wire connector | <b>R6</b> Resale pack of six<br><b>U</b> Unit |

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|                                                |
|------------------------------------------------|
| Accessories: Order as separate catalog number. |
| ATK3 R6 Airtight trim kit                      |

### Notes

See trim summary on reverse side for maximum wattages.

## L3LED T24 4" New Construction Housing

### P Series Open and Baffle Wide Flange LED Modules (Wet Location)



#### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: 4BP TRMW LED 27K 90CRI L3LED T24

| Series/Finish                                                     | Lamp | CCT / CRI / W / Lumens <sup>1</sup>     | Voltage      |
|-------------------------------------------------------------------|------|-----------------------------------------|--------------|
| 4BPMW 4" Baffle LED module, matte white                           | LED  | (blank) 3000 K / 83CRI / 10.6W / 620L   | (blank) 120V |
| 4BP TRMW 4" Baffle LED module, black baffle, matte white flange   |      | 27K 90CRI 2700 K / 93CRI / 11.2W / 600L |              |
| 4BPBN 4" Baffle LED module, brushed nickel                        |      | 30K 90CRI 3000 K / 93CRI / 11.2W / 600L |              |
| 4BPORB 4" Baffle LED module, oil-rubbed bronze                    |      | 40K 90CRI 4000 K / 92CRI / 9.9W / 650L  |              |
| 4OPA 4" Open LED module, clear diffuse                            |      |                                         |              |
| 4OPAZ 4" Open LED module, clear specular                          |      |                                         |              |
| 4OPA TRMW 4" Open LED module, clear diffuse, matte white flange   |      |                                         |              |
| 4OPAZ TRMW 4" Open LED module, clear specular, matte white flange |      |                                         |              |

#### Notes

1 Total system delivered lumens.

### LED Gimbal Module (Damp location)



#### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

Example: 4G1MW LED L3LED T24

| Series/Finish               | Lamps                        | CCT / CRI / W / Lumens <sup>1</sup>   | Voltage      |
|-----------------------------|------------------------------|---------------------------------------|--------------|
| <b>4G1</b>                  | <b>LED</b>                   |                                       |              |
| <u>Series</u>               | <u>Finish</u>                | (blank) 3000k / 83CRI / 7.9W / 435L   | (blank) 120V |
| <b>4G1</b> 4" Gimbal module | <b>MW</b> Matte white        | 27K 90CRI 2700K / 91CRI / 8.3W / 480L |              |
|                             | <b>MB</b> Matte black        | 30K 90CRI 3000K / 93CRI / 7.7W / 500L |              |
|                             | <b>BN</b> Brush nickel       | 40K 90CRI 4000K / 94CRI / 8W / 560L   |              |
|                             | <b>ORB</b> Oil-rubbed bronze |                                       |              |

#### Notes

1 Total system delivered lumens.

### E Series Baffle Wide Flange LED Modules (Wet Location)



#### ORDERING INFORMATION

For shortest lead times, configure product using **bolded options**.

Example: 4BEMW L3LED T24

| Series/Finish                                  | Lamps                        | CCT / CRI / W / Lumens <sup>1</sup> | Voltage      |
|------------------------------------------------|------------------------------|-------------------------------------|--------------|
| <b>4BEMW</b>                                   | <b>LED</b>                   |                                     |              |
| <u>Series</u>                                  | <u>Finish</u>                | 27K 2700 K / 82CRI / 10.3W / 530L   | (blank) 120V |
| <b>4BEMW</b> 4" Baffle LED module, matte white | <b>MW</b> Matte white        | 30K 3000 K / 82CRI / 10.3W / 570L   |              |
|                                                | <b>MB</b> Matte black        | 40K 4000 K / 82CRI / 10.3W / 600L   |              |
|                                                | <b>BN</b> Brush nickel       |                                     |              |
|                                                | <b>ORB</b> Oil-rubbed bronze |                                     |              |

#### Notes

1 Total system delivered lumens.



An Acuity Brands Company

L3LED-T24



# TruDefinition™ DURATION® SHINGLES

with SureNail® Technology

## Bold contrast. Deep dimension. TruDefinition™

TruDefinition™ Duration® Shingles are specially formulated to provide greater contrast and dimension to any roof.

Through the use of multiple granule colors and shadowing, *TruDefinition Duration* Shingles offer a truly unique and dramatic effect. This exclusive combination of color and depth is what makes *TruDefinition Duration* Shingles like no other.

*TruDefinition Duration* Shingles are available in popular colors with bold, lively contrast and complementing shadow lines for greater dimension. They feature a Limited Lifetime Warranty,\* 130-MPH Wind Resistance Limited Warranty,\* and an Algae Resistance Limited Warranty.\* Beyond the outstanding curb appeal and impressive warranty coverage, they also come with the advanced performance of patented SureNail® Technology.



The SureNail® Difference—  
A technological breakthrough  
in roofing.

The innovative features of Owens Corning™ *TruDefinition Duration* Shingles with patented *SureNail* Technology offer the following:

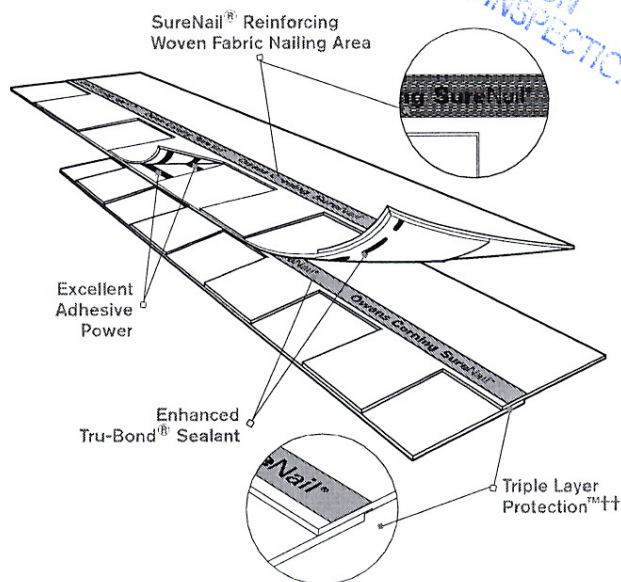
**Breakthrough Design.** Featuring a tough, woven engineered reinforcing fabric to deliver consistent fastening during installation.

**Triple Layer Protection™** A unique "triple layer" of reinforcement occurs when the fabric overlays the common bond of the shingle laminate layers that offers excellent fastener holding power.

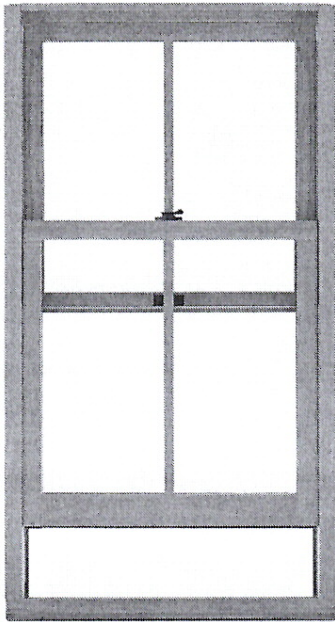
**Superior Adhesion.** Our enhanced Tru-Bond® sealant grips tightly to the engineered fabric nailing strip on the shingle below.

**Excellent Adhesive Power.** Specially formulated, wide adhesive bands help keep shingle layers laminated together.

**Exceptional Wind Resistance.** The industry's first asphalt roofing shingle engineered to deliver 130-MPH\* wind warranty performance with only 4 nails. 33% fewer nails are required for maximum warranty protection, which can mean fewer deck penetrations.







## Features of the Ultimate Double Hung G2 Window

- Available in heights up to 10.5 feet or widths up to 5.5 feet
- Marvin's exclusive auto-lock activates when sashes are closed for convenient security
- Unique wash mode allows cleaning of both sides of glass from indoors
- Narrow checkrail maximizes view, while maintaining historical accuracy
- Retractable screen option is nearly invisible when the screen is not in use
- Available with the same features in a single hung style, with optional Lift Lock
- Additional configurations include round top, stationary transom or picture window
- Hidden Lock Status Sensor option connects with your smart home to indicate when windows are closed and locked
- Available with IZ3 coastal/hurricane certification
- Available with Commercial Windows Performance certification
- CE certified

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United States Department of the Interior  
National Park Service

National Register of Historic Places  
Continuation Sheet

Section number 7 Page 26

28. B.J. Boynton House (40 Kingsland Terrace); 1923

This 2 1/2 story, 3 x 2 bay, gambrel roofed Dutch Colonial Style house displays its eaves side to the street. It was built in 1923 for B.J. Boynton who was involved in the shoe business in Burlington. Centered in the main facade, a gable with cornice returns projects out onto thin paired Doric columns which are separated by lattice-work from each other and from the wall, forming an entrance porch. Two-thirds length sidelights flank the paneled wooden door.

On either side of the entrance are 3-part windows, displaying large central panels of 12/1 sash between narrow 4/1 sash. False muntin bars adorn the top quarter of these windows, and plain surrounds enclose all windows and the door.

Centered on the front facade above the door, a pedimented gable dormer with slate cheeks breaks the roof line; two narrow 4/1 windows flank a large central panel with vertical boards. Shed dormers sheathed in slate project from the curb of the roof to either side of the gable dormer; they contain paired 6/1 windows with plain surrounds.

There are cornice returns at the east side elevation. A one story, glass enclosed sunroom projects to the west, and the cornice of its flat roof is picked up in the unbroken cornice line of the rest of the building. The roof is covered with slate. This building is sheathed in narrow aluminum siding.

28A. Garage (40 Kingsland Terrace); c.1923.

To the northeast of house #28 is this pyramidal-hip roofed, one bay garage with aluminum siding and asphalt roof shingles. The overhead door is composed of 24 small panels, with the top rows being of glass. According to Sanborn maps this was built before 1926.

29. House (50 Kingsland Terrace); c.1890.

Built c.1890 as a caretaker's cottage for the estate at 301 S. Willard Street, this 3 x 2 bay, 1 1/2 story building is now considered to be a part of Kingsland Terrace. Facing away from the street and secluded by trees, this house at the top of the Kingsland Terrace hill retains its original orientation toward South Willard Street.

## Department of Permitting and Inspections

Zoning Division  
645 Pine Street  
Burlington, VT 05401  
[www.burlingtonvt.gov/pz](http://www.burlingtonvt.gov/pz)  
Phone: (802) 865-7188  
Fax: (802) 865-7195

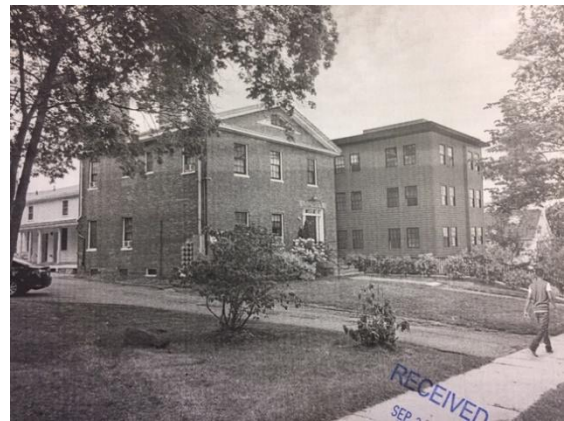
*William Ward, Director*  
*Scott Gustin, AICP, CFM, Principal Planner*  
*Mary O'Neil, AICP, Principal Planner*  
*Ryan Morrison, Associate Planner*  
*Layne Darfler, Planning Technician*  
*Alison Davis, Zoning Clerk*  
*Theodore Miles, Zoning Specialist*  
*Charlene Orton, DPI Administrator*



## MEMORANDUM

**To:** The Design Advisory Board  
**From:** Mary O'Neil, AICP, Principal Planner  
**RE:** 323-325 College Street  
**Date:** October 13, 2020

**File:** ZP21-0329CA  
**Location:** 323-325 College Street  
**Zone:** RH **Ward:** 8E  
**Parking District:** Multi-Modal Mixed Use  
**Date application accepted:** September 25, 2020  
**Applicant/ Owner:** 323 Green Castle LLC, Alpha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, Elizabeth Demas IRA. (Bruce Baker, Peter Potts, Carol Potts, Elizabeth Demas)  
**Request:** 4 unit addition to 323-325 College Street



### Background:

- **Zoning Permit 19-0203CA;** Site changes and parking reconfiguration associated with ZP18-0977LL, ZP18-0976LL and ZP18-0975CA, 308 Main Street. October 2018.
- **Zoning Permit 18-0977LL;** Boundary line adjustment with 308 Main Street. See also ZP19-0203CA (323-325 College Street) and ZP18-0976LL and 18-0975CA (308 Main Street.). October 2018.
- **Zoning Permit 18-0230CA;** Alterations to site plan approved under ZP17-0791CA and window replacement under ZP17-0790CA. Add steps on south elevation, window changes, and boiler exhaust penetrations. August 2017.
- **Zoning Permit 18-0060CA;** Establish paved connection with 308 Main Street for shared parking; relocation of dumpster and one tree. Application withdrawn September 2017.
- **Zoning Permit 17-0791CA;** Renovate existing ell for an additional 4 residential units; re-stripe parking for additional spaces. Requires DRB discretionary review of parking space dimensional standards silent in Article 8, Table 8.1.11-1. No change to coverage or setbacks. April 2017.
- **Zoning Permit 17-0790CA;** Replace existing windows on rear ell with new clad wood windows. Approved March 2017.



- **Zoning Permit 11-0086**; Amendment to original approval issued November 3, 2010; specifically, site plan revisions, new access road, revised parking layout and substantially upgraded stormwater retention infrastructure. Approved July 2011.
- **Zoning Permit 11-0086 CA/MA**; Construct an attached building addition with 8 new dwelling units; convert the existing 5 unit building to a single unit with attached laundry/storage area; a net total of 9 dwelling units. (Re-arrangement of the number of units between buildings: 1 to be located in the existing structure; 8 in the new structure.) Demolish existing garage, expand parking area. Approved November, 2010.
- **Zoning Permit 04-496**; Move existing fence and install children's play equipment. Approved April 2004.
- **Zoning Permit 03-170**; Installation of fenced enclosure, 4' high green vinyl chain link. Approved, October 2002.
- **Zoning Permit 83-123**; Erect a 4' chain link fence along 75' of eastern property line and 125' along property line and 84' along northern property line. Approved April 1983.
- **Zoning Permit 80-962**; New doors, installation of a window where there was a door. Interior work. Approved May 1980.
- **Zoning Permit 79-146**; Install 70' of 4' chain link fencing. Approved May 1979.
- **ZBA request** to convert a three apartment house to five apartments; Approved November 1972.

**Overview:** 323-325 College Street is a connected, 13 unit apartment complex. 5 units are within the original 1832 Chauncey Goodrich/Luther Hagar House at 325 College Street, while 8 are in the 2010 four story addition west of the historic house. Goodrich was a Burlington publisher and bookbinder. That structure is listed on the National Register of Historic Places within the **Main Street College Street Historic District**. This application proposes a primary frontage, four story addition to the 2010 ell to include four additional residential units for a collective total of 17 residential units.

### **Part 1: Land Division Design Standards**

No land division is proposed. Not applicable.

### **Part 2: Site Plan Design Standards**

#### **Sec. 6.2.2 Review Standards**

##### **(a) Protection of Important Natural Features:**

Plan Sv-1 shows a birch tree in the location of the proposed addition. Google Earth also illustrates an unidentified tree (Pine?) in the front yard that does not appear on the existing conditions plan. The applicant shall define.

##### **(b) Topographical Alterations:**



The applicant includes a plan for minor grading to accommodate the addition. The site grading and utility plan are C2.01.

**(c) Protection of Important Public Views:**

There are no protected public views from or through this property. Not applicable.

**(d) Protection of Important Cultural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Archeological sites likely to yield information important to the city's or the region's pre-history or history shall be evaluated, documented, and avoided whenever feasible. Where the proposed development involves sites listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8(b).*

See Section 5.4.8, below.

**(e) Supporting the Use of Renewable Energy Resources:**

No floor plans have been submitted, so it is not evident if ERV closets or similar accommodations are being made for renewable energy. At the very least and in support of Burlington's renewable energy goals, it is recommended that infrastructure (conduit) be provided to accommodate a future solar installation.

**(f) Brownfield Sites:**

The site is not listed on DEC's Brownfield site list. Not applicable.

**(g) Provide for nature's events:**

*Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.*

The applicants have provided an EPSC/Stormwater plan for review by the City's stormwater engineering staff. Their approval will be a condition of any decision.

*Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.*

Doors are illustrated on both the east and west elevations (Plan A200), neither of which appears to afford any canopy. Some method of roof cover should be provided to allow residents sheltered transition upon entry.

The applicant provided a snow management plan with previous applications. That should be updated for this application.

**(h) Building Location and Orientation:**

The new addition is appended to the 2010 building addition; prominently facing the street and drawing up to a setback line as established by averaging two adjacent properties on either side. In location and orientation, it fills in the street wall.

**(i) Vehicular Access:** Permit 19-0203CA provided a clock-wise circulation path through 323-325 College Street, with additional traffic flow from 308 Main Street through the site south-to-north. The applicants shall confirm that the previously approved circulation path will continue with this new addition.

**(j) Pedestrian Access:**

A 5' wide walkway is illustrated from the public sidewalk on College Street to the new easterly entrance to the addition (Plan C1.01.) The westerly entrance immediately abuts the new parallel parking spaces. The area (9.3' in width) should be appropriately marked as a pedestrian entry, clearly marked by differentiated ground materials and/or pavement markings.

**(k) Accessibility for the Handicapped:**

As originally approved, the building remains accessible from the southerly entrance. One handicap parking space is identified on the site. The building inspector has jurisdiction for the compliance of ADA standards.

**(l) Parking and Circulation:**

The last permit approved 34 parking spaces on-site for the 13 units. (18-0977LL, 19-0203CA.) 41 parking spaces are proposed with this site plan, reflecting the addition of 6 new parallel parking space on the west of the addition. The location of the additional space has not been identified. (34+6=40; 41 identified on C1.01.)

This project falls within the new Multi-Modal Mixed Use Parking District (adopted 9.14.20), which eliminates parking requirements for those properties with street frontage on major thoroughfares to a depth of 200'. College Street (up to South Williams) is included on that map. Therefore, there are no new parking requirements with the addition of four new residential units.

Parcel circulation had been previously approved in a clock-wise pattern; entering from the easterly drive and circulating out the westerly drive. In addition, the parking plan for 308 Main Street allows for that traffic to move through this site from south to north. The drive width of 10' on the westerly side of the building should be adequate for most residential vehicles, but potentially challenging for trash haulers accessing the dumpster in the southwesterly corner of the lot.

**(m) Landscaping and Fences:**

The applicant needs to define any changes to the landscaping, including tree removal with the proposed new addition. Plan C1.01 illustrates a retaining wall with a railing. More information will be required for review. Any retaining wall over 3' requires approval of the City engineer.



**(n) Public Plazas and Open Space:**

No public plazas are proposed. There is a modicum of open space in the front yard for tenant use.

**(o) Outdoor Lighting:**

*Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.*

Exterior downlights are proposed over both new entries. See elevations on plan A200.

**(p) Integrate infrastructure into the design:**

*Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.*

The existing dumpster is in the southeast corner of the parcel. Mailboxes are presumed to be within the residential entry lobby on the south as previously approved. The applicant shall confirm.

*Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be placed underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.*

*Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on neighboring properties and the environment pursuant to the requirements of Article 5, Part 4 Performance Standards.*

Rooftop heatpumps will be enclosed within a corrugated metal screen. See Plan A301.

**Part 3: Architectural Design Standards**

**Sec. 6.3.2 Review Standards**

**(a) Relate development to its environment:**

**1. Massing, Height and Scale:**

The addition is proposed to be appended to the existing westerly addition at 325 College Street, continuing the height and width of the 2010 structure. Although the proposed building height exceeds the dimensional limitations of Table 4.4.5-3 (35'), a 5% differential is allowed for sites with topograph changes across the site (Section 5.2.6 (b), *Exceptions to Height Limits*.) At 36'7 1/2", the proposed height falls within that allowance.

**2. Roofs and Rooflines.**

A flat roof is proposed, consistent with the existing addition.

### **3. Building Openings**

Window openings are symmetrically arranged; in four columns on the north and east elevations, and three columns on the west elevation. New entrances are figured on opposing east/west elevations.

#### **(b) Protection of Important Architectural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings.*

See Section 5.4.8.

#### **(c) Protection of Important Public Views:**

Not applicable.

#### **(d) Provide an active and inviting street edge:**

Although similar to the original building addition approved in 2010, the new addition removes the blind entrance at the 2010 addition's lower level (oddly entering into a bedroom) with a relocation of entrances to the sides. As an addition, an entrance facing the street is not a requirement. Articulated in the same manner as other recent multi-unit buildings, it is tidy.

#### **(e) Quality of materials:**

*All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.*

Consistent with other recently constructed apartment buildings, it is sheathed in a combination of fiber cement clapboard, corrugated metal with an exposed concrete foundation.

*Owners of historic structures are encouraged to consult with an architectural historian in order to determine the most appropriate repair, restoration or replacement of historic building materials as outlined by the requirements of Art 5, Sec. 5.4.8.*

This is an addition to an historic structure; so assessment of appropriate sheathing for repair or replacement of historic building materials does not apply.

#### **(f) Reduce energy utilization:**

All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.

*New structures should take advantage of solar access where available, and shall undertake efforts to reduce the impacts of shadows cast on adjacent buildings where practicable, in order to provide opportunities for the use of active and passive solar utilization.*

At the very least, the addition should be constructed toward the inclusion of solar utilization in the future by incorporating conduit within the plan.

**(g) Make advertising features complementary to the site:**

Any signs shall require a separate sign permit.

**(h) Integrate infrastructure into the building design:**

See Section 6.2.2. (p), above.

**(i) Make spaces secure and safe:**

Construction shall comply with all required building and life safety codes as determined by the building inspector and fire marshal.

*Building entrances/entry points shall be visible and adequately lit, and intercom systems for multi-family housing should be incorporated where possible, to maximize personal safety.*

Both entrances are proposed to have exterior downlights. Intercom systems are recommended to maximize personal safety.

**Section 5.4.8 Historic Buildings and Sites**

*The City seeks to preserve, maintain, and enhance those aspects of the city having historical, architectural, archaeological, and cultural merit. Specifically, these regulations seek to achieve the following goals:*

*To preserve, maintain and enhance Burlington's historic character, scale, architectural integrity, and cultural resources;*

*To foster the preservation of Burlington's historic and cultural resources as part of an attractive, vibrant, and livable community in which to live, work and visit;*

*To promote a sense of community based on understanding the city's historic growth and development, and maintaining the city's sense of place by protecting its historic and cultural resources; and,*

*To promote the adaptive re-use of historic buildings and sites.*

**(a) Applicability:**

*These regulations shall apply to all buildings and sites in the city that are listed, or eligible for listing, on the State or National Register of Historic Places.*

**(b) Standards and Guidelines:**



*The following development standards, following the Secretary of the Interior's Standards for the Treatment of Historic Properties, shall be used in the review of all applications involving historic buildings and sites subject to the provisions of this section and the requirements for Design Review in Art 3, Part 4. The Secretary of the Interior's Standards are basic principles created to help preserve the distinctive character of a historic building and its site. They are a series of concepts about maintaining, repairing and replacing historic features, as well as designing new additions or making alterations. These Standards are intended to be applied in a reasonable manner, taking into consideration economic and technical feasibility.*

1. *A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*

The existing Goodrich/Hagar historic structure at 325 College Street remains residential, as it was originally constructed.

2. *The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property will be avoided.*

Although no physical changes are proposed for the historic Goodrich/Hagar house, the entire building mass at 323 College Street is an addition to that building, as was reviewed as such in 2010. The increased setback reflected in the existing conditions plan was deliberate, so the new building mass would be appropriately deferential to the historic home. This plan eliminates that purposeful setback, removing the intentional space before the 323 residential addition and changing the spatial relationship between the two building ell. The DAB must determine the relevance of that 2010 decision that required structural setback for the new building mass, to differentiate it and defer to the prominence of the historic home.

3. *Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.*

While no conjectural features are proposed, the elimination of the intentional setback changes the relationship to the historic structure and gives greater importance to the modern building addition.

4. *Changes to a property that have acquired historic significance in their own right will be retained and preserved.*

The 2010 addition has not acquired historic significance in its own right. Not applicable.

5. *Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*

The 2010 building addition does not include any particular craftsmanship, feature, finishes or construction techniques requiring preservation.

6. *Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old*

*in design, color, texture, and, where possible, materials recognizing that new technologies may provide an appropriate alternative in order to adapt to ever changing conditions and provide for an efficient contemporary use. Replacement of missing features will be substantiated by documentary and physical evidence.*

No deteriorated historic building features are proposed for replacement. Not applicable.

7. *Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

Not applicable.

8. *Archeological resources will be protected and preserved in place. If such resources must be disturbed, mitigation measures will be undertaken.*

There are no identified archaeological resources at this location. If project development reveals any resources, construction will cease until appropriate authorities assess, evaluate, and assign appropriate disposition of them.

9. *New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*

The 2010 approval for the 8 unit addition was very intentional in setting the building mass back from the street and allowing the historic structure to retain prominence. This proposal will indeed be differentiated from the old in materials and design. The building massing, while similar in scale and size (to the 2010 addition) steps boldly toward the street and in its location the potential to diminish the importance and the physical ability to view the 1832 structure. Were this project proposed on a separate, abutting lot, the prominence and modern vocabulary of the new work would be easily interpreted. But this remains an addition, appended to a listed historic property. The ordinance will allow the structural addition, but the DAB must assess the elimination of the 2010 addition setback providing intended deferential stature. The new addition elevates the overall importance of this large building mass; competing for attention on the single lot.

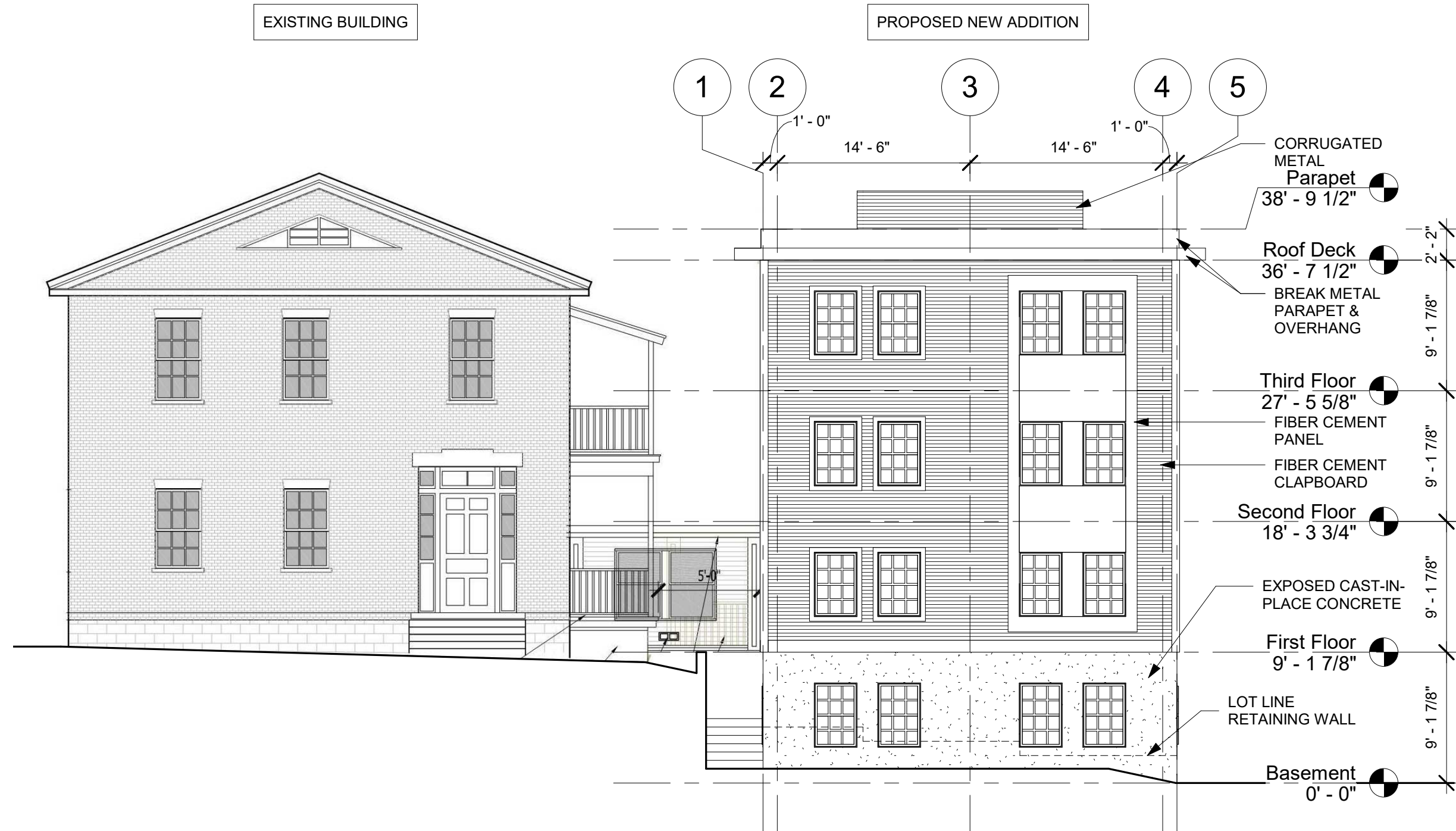
10. *New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

It is possible to imagine that if the entire westerly addition were removed, the 1832 Goodrich/Hagar house would retain its integrity.

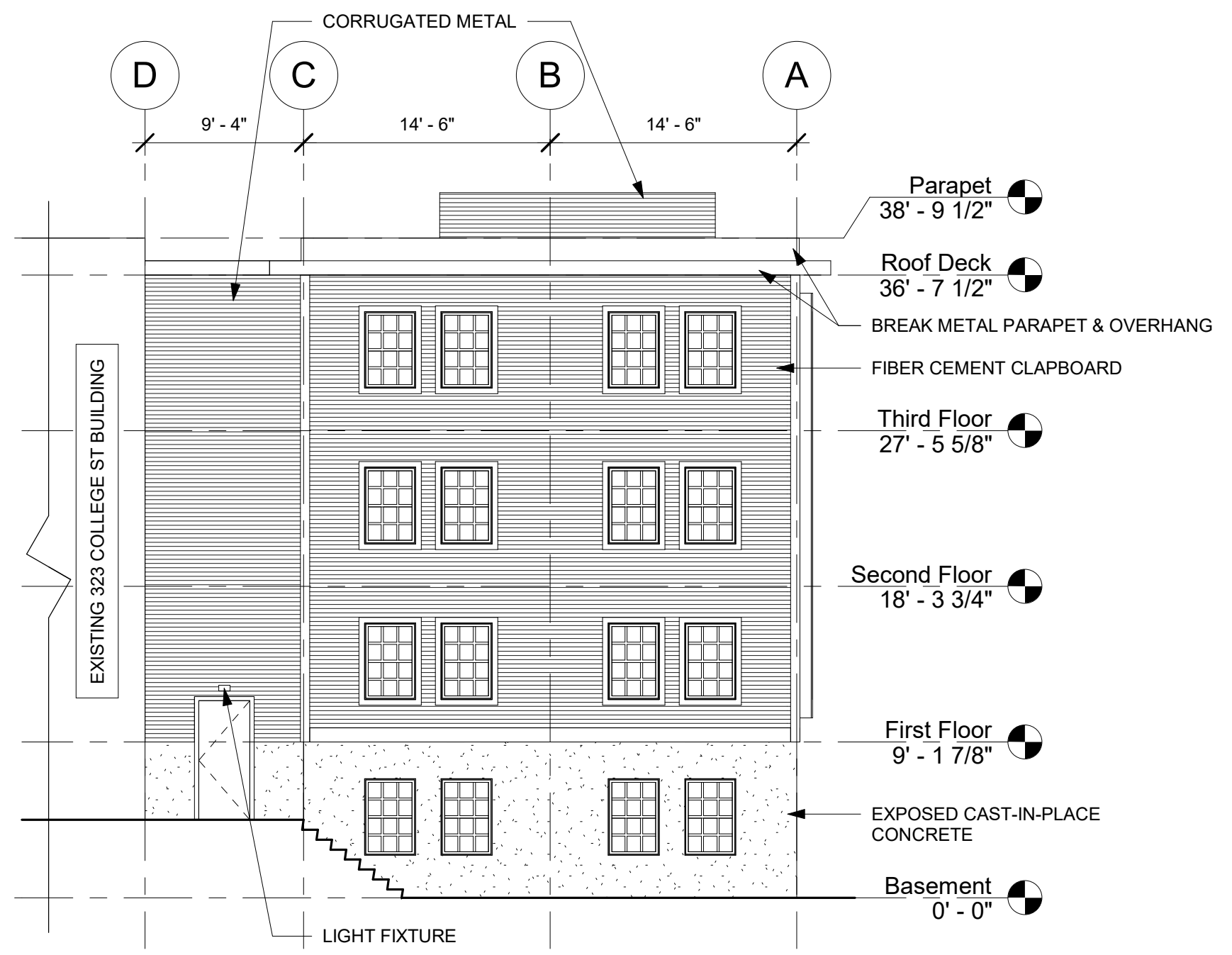
**Items for the Board's consideration if approval is recommended:**

1. A landscaping plan, included proposed tree removal shall be provided.
2. Written approval of the Erosion Prevention and Sediment Control Plan, as well as the Stormwater plan will be a condition of any approval.

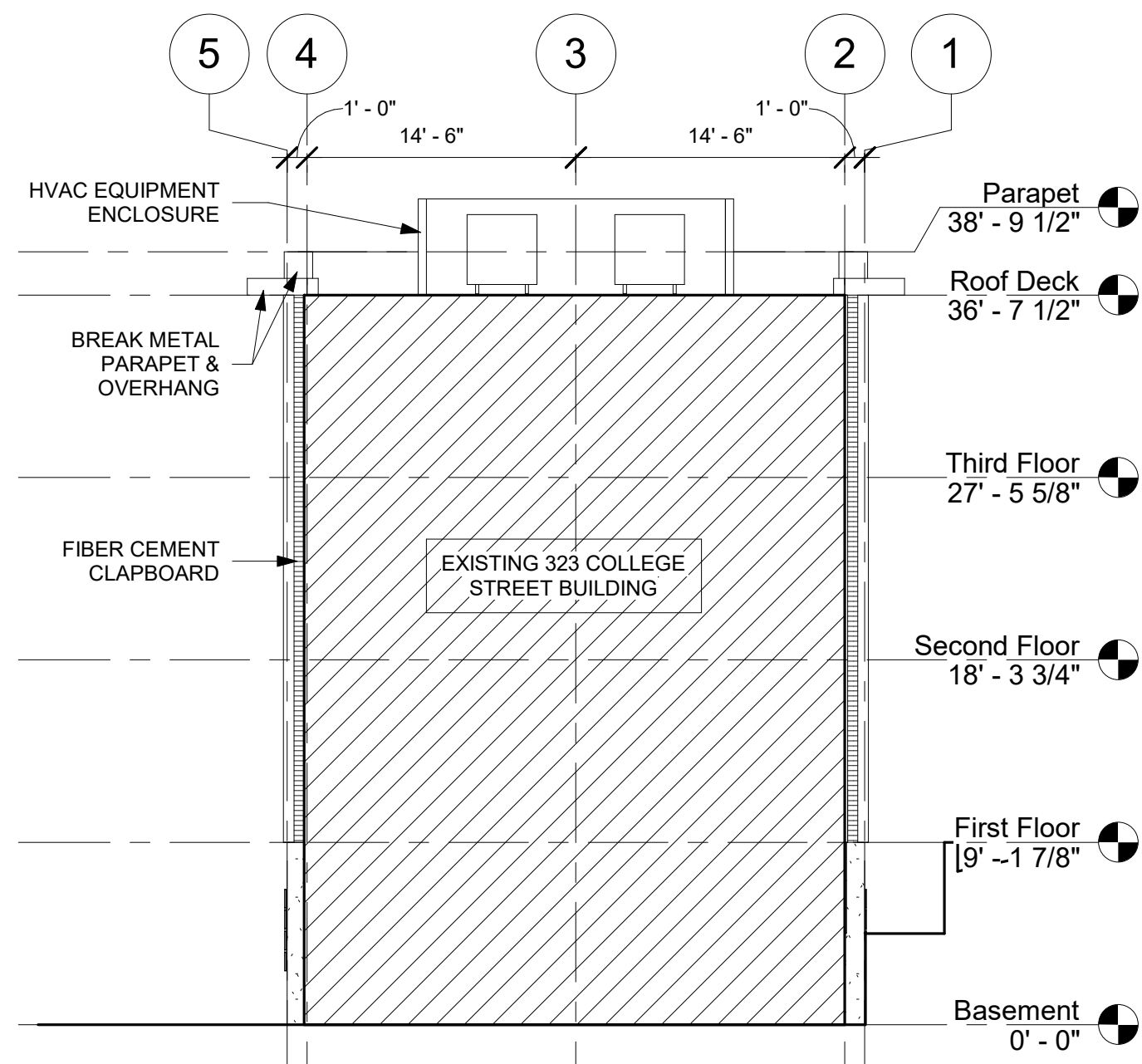
3. Some form of roof canopy shall be provided for both building entrances to ensure shelter from inclement weather.
4. Floor and roof plans shall be submitted.
5. The applicant shall confirm the direction of traffic flow throughout the site to identify any conflicts with the newly proposed parking spaces.
6. Retaining walls over 3' in height require approval by the City engineer.
7. The applicant shall provide further information about the new retaining wall and the fence, as well as more definition about what "adjust retaining wall" means. (Plan C1.01)
8. The applicants shall provide an updated snow management plan.
9. The westerly pedestrian entrance shall be clearly marked by differentiated ground materials and/or pavement markings to prevent vehicular blockage of the building entrance.
10. The applicant will be required to provide a letter of capacity for adequate water and sewer capacity for the new units.
11. The applicant will be required to secure a State of Vermont wastewater permit.
12. The applicants shall define/confirm the location of additional mailboxes for the new units.
13. Occupancy of the new units will be limited to a definition of a family in Article 13. Not more than 4 unrelated adults may occupy any unit.
14. The DRB will likely require incorporation of the property management plan, previously approved for this parcel, within this review. (ZP11-0086CA/MA, Condition #11.)



1 North Elevation  
1/8" = 1'-0"



2 East Elevation  
1/8" = 1'-0"



3 South Elevation  
1/8" = 1'-0"



4 West Elevation  
1/8" = 1'-0"

| No. | Description | Date |
|-----|-------------|------|
|-----|-------------|------|

Greencastle LLC

323 College Street

Elevations

|                  |               |
|------------------|---------------|
| Project number : | 202002        |
| Date :           | 15 June 2020  |
| Drawn by :       | DLG           |
| Checked by :     | DLG           |
| Project Phase :  | Zoning Permit |

A200

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



# HardiePlank®

Thickness 5/16 in

Length 12 ft planks

## SELECT CEDARMILL® & SMOOTH

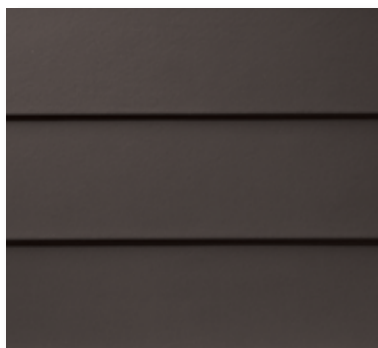
|                      |         |         |         |         |
|----------------------|---------|---------|---------|---------|
| Width                | 5.25 in | 6.25 in | 7.25 in | 8.25 in |
| Exposure             | 4 in    | 5 in    | 6 in    | 7 in    |
| Prime Pcs/Pallet     | 360     | 308     | 252     | 230     |
| ColorPlus Pcs/Pallet | 324     | 280     | 252     | 210     |
| Pcs/Sq               | 25.0    | 20.0    | 16.7    | 14.3    |

## SELECT CEDARMILL®



|                       |         |         |         |         |
|-----------------------|---------|---------|---------|---------|
| Width                 | 5.25 in | 6.25 in | 7.25 in | 8.25 in |
| STATEMENT COLLECTION™ | ✓       | ✓       |         |         |
| DREAM COLLECTION™     | ✓       | ✓       | ✓       | ✓       |
| PRIME                 | ✓       | ✓       | ✓       | ✓       |

## SMOOTH



|                       |         |         |         |         |
|-----------------------|---------|---------|---------|---------|
| Width                 | 5.25 in | 6.25 in | 7.25 in | 8.25 in |
| STATEMENT COLLECTION™ | ✓       | ✓       |         |         |
| DREAM COLLECTION™     | ✓       | ✓       | ✓       | ✓       |
| PRIME                 | ✓       | ✓       | ✓       | ✓       |

## BEADED CEDARMILL®



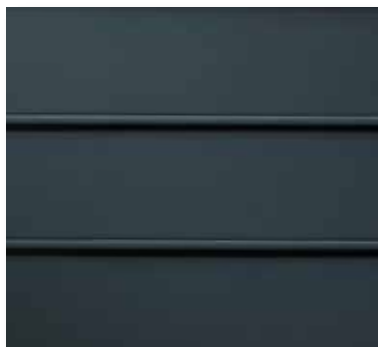
## BEADED CEDARMILL® & BEADED SMOOTH

|                      |         |
|----------------------|---------|
| Width                | 8.25 in |
| Exposure             | 7 in    |
| Prime Pcs/Pallet     | 240     |
| ColorPlus Pcs/Pallet | 210     |
| Pcs/Sq               | 14.3    |

|                       |       |
|-----------------------|-------|
| STATEMENT COLLECTION™ | _____ |
| DREAM COLLECTION™     | ✓     |
| PRIME                 | ✓     |

FIBER CEMENT  
CLAPBOARD SIDING

## BEADED SMOOTH



# HardiePanel®

Thickness 5/16 in

FIBER CEMENT  
PANEL SIDING

## SELECT CEDARMILL®, SMOOTH, STUCCO & SIERRA 8

| Size                 | 4 ft x 8 ft | 4 ft x 10 ft |
|----------------------|-------------|--------------|
| Prime Pcs/Pallet     | 50          | 50           |
| ColorPlus Pcs/Pallet | 50          | 50           |
| Pcs/Sq               | 3.2         | 2.5          |

### SELECT CEDARMILL®



| Size                  | 4 ft x 8 ft | 4 ft x 10 ft |
|-----------------------|-------------|--------------|
| STATEMENT COLLECTION™ |             | ✓            |
| DREAM COLLECTION™     | ✓           | ✓            |
| PRIME                 | ✓           | ✓            |

### SMOOTH



| Size                  | 4 ft x 8 ft | 4 ft x 10 ft |
|-----------------------|-------------|--------------|
| STATEMENT COLLECTION™ |             | ✓            |
| DREAM COLLECTION™     | ✓           | ✓            |
| PRIME                 | ✓           | ✓            |

### STUCCO



| Size                  | 4 ft x 8 ft | 4 ft x 10 ft |
|-----------------------|-------------|--------------|
| STATEMENT COLLECTION™ |             |              |
| DREAM COLLECTION™     | ✓           | ✓            |
| PRIME                 | ✓           | ✓            |

### SIERRA 8

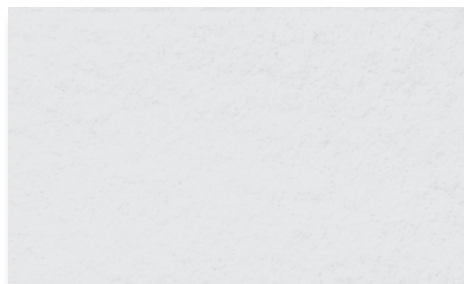


| Size                  | 4 ft x 8 ft | 4 ft x 10 ft |
|-----------------------|-------------|--------------|
| STATEMENT COLLECTION™ |             |              |
| DREAM COLLECTION™     |             |              |
| PRIME                 | ✓           | ✓            |

# HardieTrim®

Length 12 ft boards

## NT3® BOARDS SMOOTH



FIBER CEMENT  
SIDING TRIM

### 4/4 SMOOTH

|                      |        |        |         |         |          |
|----------------------|--------|--------|---------|---------|----------|
| Thickness            | .75 in |        |         |         |          |
| Width                | 3.5 in | 5.5 in | 7.25 in | 9.25 in | 11.25 in |
| ColorPlus Pcs/Pallet | 312    | 208    | 156     | 104     | 104      |

|                       |   |   |   |   |   |
|-----------------------|---|---|---|---|---|
| STATEMENT COLLECTION™ | ✓ | ✓ | ✓ |   | ✓ |
| DREAM COLLECTION™     | ✓ | ✓ | ✓ | ✓ | ✓ |
| PRIME                 |   |   |   |   |   |

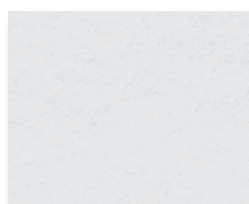
### 5/4 SMOOTH

|                      |        |        |        |         |         |          |
|----------------------|--------|--------|--------|---------|---------|----------|
| Thickness            | 1 in   |        |        |         |         |          |
| Width                | 3.5 in | 4.5 in | 5.5 in | 7.25 in | 9.25 in | 11.25 in |
| ColorPlus Pcs/Pallet | 240    | 200    | 160    | 120     | 80      | 80       |

|                       |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|
| STATEMENT COLLECTION™ | ✓ | ✓ | ✓ | ✓ |   | ✓ |
| DREAM COLLECTION™     | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PRIME                 |   |   |   |   |   |   |

## BATTEN BOARDS

### SMOOTH



### RUSTIC GRAIN®



### SMOOTH & RUSTIC GRAIN®

|                      |        |                       |   |
|----------------------|--------|-----------------------|---|
| Thickness            | .75 in | STATEMENT COLLECTION™ | ✓ |
| Width                | 2.5 in | DREAM COLLECTION™     | ✓ |
| Prime Pcs/Pallet     | 190    | PRIME                 | ✓ |
| ColorPlus Pcs/Pallet | 437    |                       |   |

# HardieSoffit®

Thickness 1/4 in

## VENTED SMOOTH

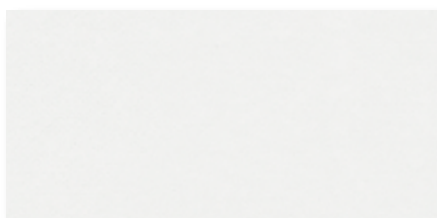


## VENTED SELECT CEDARMILL®



## ROOF OVERHANG FIBER CEMENT SOFFIT

## NON-VENTED SMOOTH



## NON-VENTED SELECT CEDARMILL®



## BEADED PORCH PANEL



## VENTED SMOOTH & SELECT CEDARMILL®

|                      |       |       |       |
|----------------------|-------|-------|-------|
| Length               | 12 ft | 12 ft | 8 ft  |
| Width                | 12 in | 16 in | 24 in |
| Prime Pcs/Pallet     | 200   | 150   | 100   |
| ColorPlus Pcs/Pallet | 216   | 156   | 108   |

|                       |               |               |              |
|-----------------------|---------------|---------------|--------------|
| Size                  | 12 ft x 12 in | 12 ft x 16 in | 8 ft x 24 in |
| STATEMENT COLLECTION™ |               |               |              |
| DREAM COLLECTION™     | ✓             | ✓             | ✓            |
| PRIME                 | ✓             | ✓             | ✓            |

|                       |               |               |              |
|-----------------------|---------------|---------------|--------------|
| Size                  | 12 ft x 12 in | 12 ft x 16 in | 8 ft x 24 in |
| STATEMENT COLLECTION™ |               |               |              |
| DREAM COLLECTION™     | ✓             | ✓             | ✓            |
| PRIME                 |               |               |              |

## NON-VENTED SMOOTH & SELECT CEDARMILL®

|                      |       |       |       |       |
|----------------------|-------|-------|-------|-------|
| Length               | 12 ft | 12 ft | 8 ft  | 8 ft  |
| Width                | 12 in | 16 in | 24 in | 48 in |
| Prime Pcs/Pallet     | 200   | 150   | 100   | 50    |
| ColorPlus Pcs/Pallet | 216   | 156   | 108   | —     |

|                       |               |               |              |              |
|-----------------------|---------------|---------------|--------------|--------------|
| Size                  | 12 ft x 12 in | 12 ft x 16 in | 8 ft x 24 in | 8 ft x 48 in |
| STATEMENT COLLECTION™ |               |               |              |              |
| DREAM COLLECTION™     | ✓             | ✓             | ✓            |              |
| PRIME                 | ✓             | ✓             | ✓            | ✓            |

|                       |               |               |              |              |
|-----------------------|---------------|---------------|--------------|--------------|
| Size                  | 12 ft x 12 in | 12 ft x 16 in | 8 ft x 24 in | 8 ft x 48 in |
| STATEMENT COLLECTION™ |               |               |              |              |
| DREAM COLLECTION™     | ✓             | ✓             | ✓            |              |
| PRIME                 |               |               |              |              |

## BEADED PORCH PANEL

|                      |        |                       |       |
|----------------------|--------|-----------------------|-------|
| Thickness            | 1/4 in | STATEMENT COLLECTION™ | _____ |
| Length               | 8 ft   | DREAM COLLECTION™     | ✓     |
| Width                | 48 in  | PRIME                 | _____ |
| ColorPlus Pcs/Pallet | 50     |                       |       |



CORRUGATED METAL SIDING

Exposed fastener panels provide ultimate flexibility with panels that can be used as exterior or interior walls, roofs or soffits. Exposed fastener panels can be installed in any weather to enable faster scheduling.

FEATURES & BENEFITS

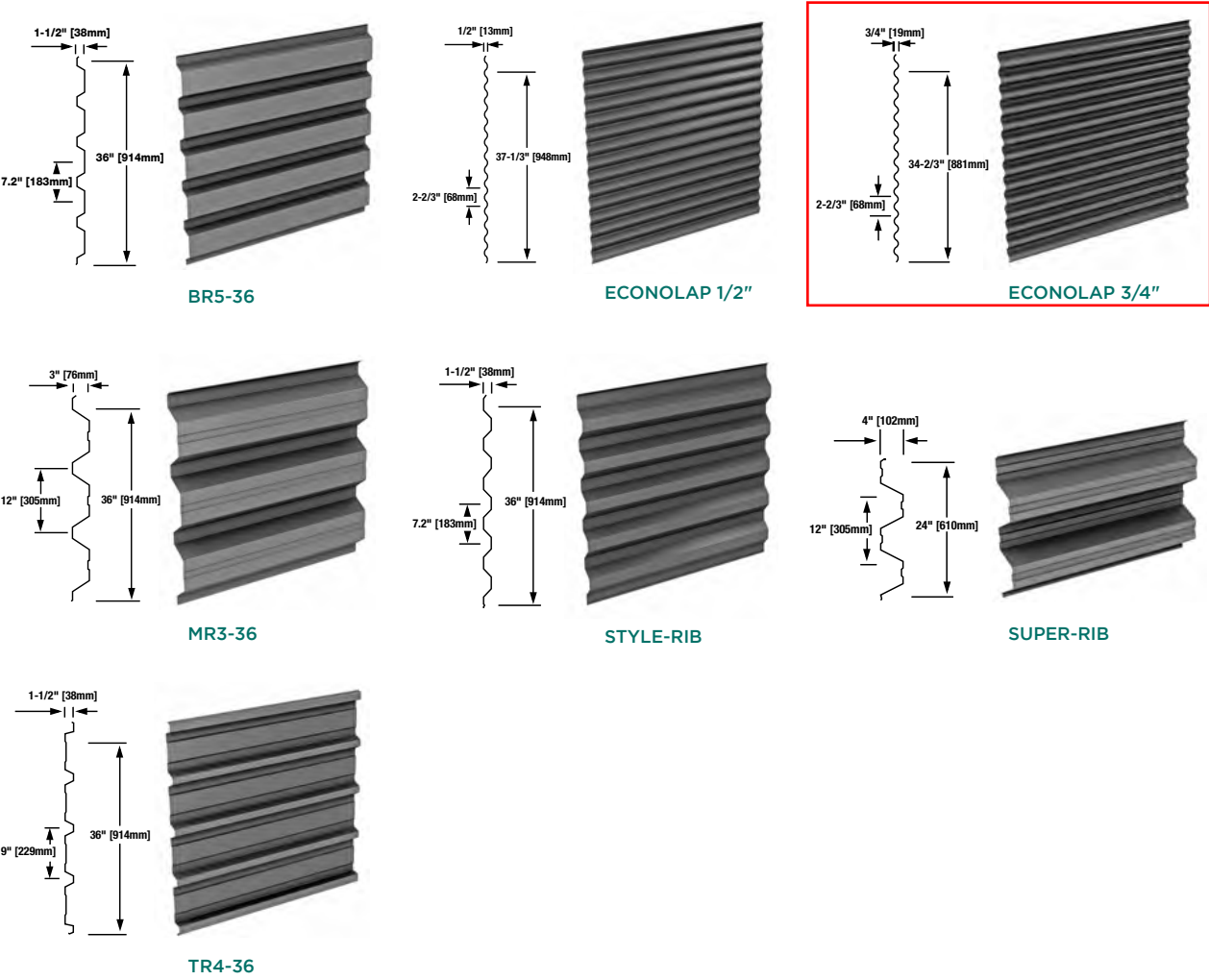
- Extremely versatile panels can be used as exterior or interior walls, roofs and soffits
- Ribs can be run either horizontally or vertically
- May be installed to meet many levels of thermal protection
- Excellent negative wind load properties
- Excellent option for both new construction and retrofit projects
- All-weather installation capability minimizes delays; permits fast-track scheduling
- Panels are available in embossed or smooth finishes

COMPONENT DESCRIPTION

|                   |                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| SUBSTRATES        | <ul style="list-style-type: none"><li>• Standard 24"-18 gauge G-90 galvanized steel</li><li>• Optional aluminum or stainless steel</li></ul> |
| SURFACE FINISH    | <ul style="list-style-type: none"><li>• Smooth or embossed surface texture</li></ul>                                                         |
| PANEL ORIENTATION | <ul style="list-style-type: none"><li>• Horizontal or vertical wall installation</li><li>• Wall and roof installation</li></ul>              |
| PANEL LENGTHS     | <ul style="list-style-type: none"><li>• Lengths up to 40' [12.2m] for steel panels</li><li>• Consult CENTRIA for more information.</li></ul> |
| COATINGS & COLORS | Available in a wide range of coil-coated colors and finishes. See charts on Pages 46-51.                                                     |

\*24-gauge only available in certain profiles. Consult CENTRIA.

EXPOSED FASTENER PANELS

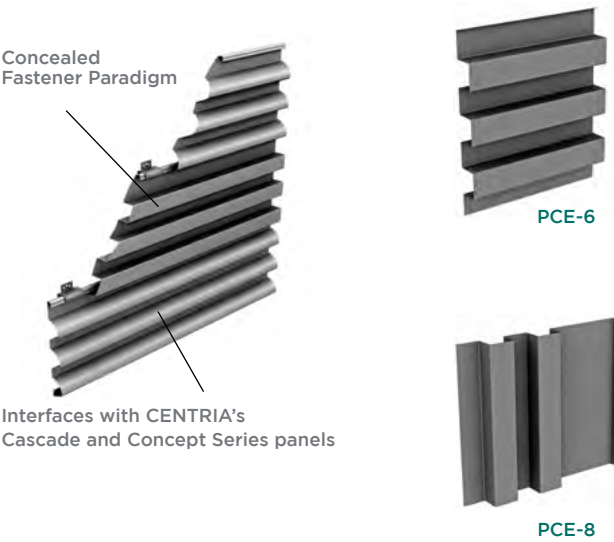


Paradigm makes it possible to create truly unique custom profiles in almost unlimited color and finish options. The result is design flexibility and control, as well as a cost-effective way to add distinctive accents to your next project.

FEATURES & BENEFITS

- Designer-customized panel profile shapes permit variation in design and shadow relief
- Vertical or horizontal installation
- Exposed and concealed fastener options available
- Custom-engineered panels with calculations and Professional Engineer stamps
- State-of-the-art production process ensures crisp and consistent panel fabrication quality
- All-weather installation capability minimizes delays and permits fast-track scheduling
- Unique, project-specific aesthetics and flexibility
- Integrates with CENTRIA Concept Series Concealed fastener panels and horizontal Cascade panels
- More than 85 standard colors and 11 finish options available along with custom color availability
- Our sales team along with a dedicated group of in-house engineers and architects are available to assist in making your product vision a reality

PARADIGM CONCEALED AND EXPOSED FASTENER PANELS



WE MADE IT EASIER AND FASTER TO GET THE METAL FLASHINGS, DRIP EDGES AND TRIM THAT SMART BUILDERS, ROOFERS AND SIDING CONTRACTORS RELY ON MOST.

## Flashing, Soffit and Edge Metal

We made it easier and faster to get the metal flashings, drip edges and trim that smart builders, roofers and siding contractors rely on most. No more waiting for an order to arrive from out of state, no more labor-intensive hand-brake work.

Architectural Metal Supply offers standard window and door flashing in thicker-gauge metal than you would find in a hardware or box store, and we offer it in an array of colors. We also offer custom flashing products that accommodate the exterior insulation and rainscreen often required with today's energy-code standards.

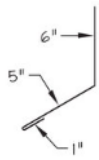


METAL CLADDING  
FOR ROOF  
PARAPET AND  
OVERHANG

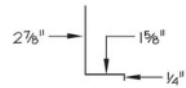
[REQUEST QUOTE](#)[LEARN MORE ABOUT OUR SISTER COMPANY REAP CONSTRUCTION](#)

ARCHITECTURAL METAL SUPPLY, 102 WILLIS FARM ROAD, RICHMOND, VT 05477,  
USA (802) 434-3435 [INFO@ARCHMETSUPPLY.COM](mailto:INFO@ARCHMETSUPPLY.COM)

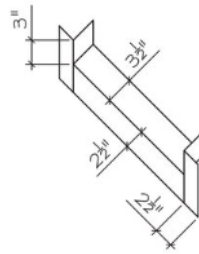




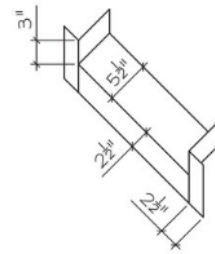
Apron Flashing



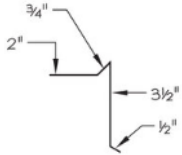
Deck Ledger



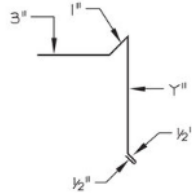
Door Pan - 2x4 Wall



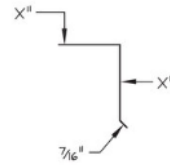
Door Pan - 2x6 Wall



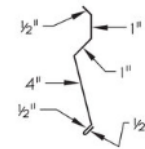
Gravel Stop



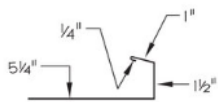
Gravel Stop 2



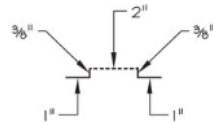
Hook Strip or Cleat



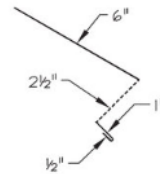
Mount Reglet



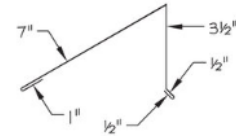
Rain Diverter



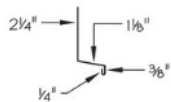
Soffit Vent



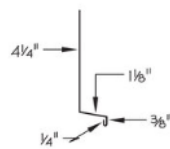
Vented Drip Edge



Vertical Ridge



4" Window Flashing



6" Window Flashing



# ESSENTIAL DOUBLE HUNG

*Previously known as Integrity All Ultrex Double Hung*



## Features of the Essential Double Hung Window

- Available in heights up to 6.5 feet or widths up to 4 feet
- Durable and low-maintenance material to the interior and exterior
- Low-profile, easy to operate locking mechanism
- Insert replacement option is available to fit seamlessly into existing window openings
- Top and bottom sash tilt and remove easily for maintenance/cleaning

| ENERGY DATA                                      | U-FACTOR | SHGC | VT   | ENERGY STAR  |
|--------------------------------------------------|----------|------|------|--------------|
| Insulated Glass - Low E3 - Argon                 | 0.29     | 0.22 | 0.51 | NC, SC, S    |
| Insulated Glass - Low E3 - Argon - GBG           | 0.29     | 0.20 | 0.46 | NC, SC, S    |
| Insulated Glass - Low E3 - Air                   | 0.33     | 0.23 | 0.51 | S            |
| Insulated Glass - Low E3 - Air - GBG             | 0.33     | 0.20 | 0.46 | S            |
| Insulated Glass - Low E2 - Air - GBG             | 0.34     | 0.30 | 0.51 |              |
| Insulated Glass - Low E2 - Argon                 | 0.30     | 0.33 | 0.57 | NC           |
| Insulated Glass - Low E3 / Low ERS - Argon       | 0.25     | 0.22 | 0.50 | N, NC, SC, S |
| Insulated Glass - Low E3 / Low ERS - Argon - GBG | 0.25     | 0.20 | 0.45 | N, NC, SC, S |
| Insulated Glass - Low E1 - Argon                 | 0.31     | 0.55 | 0.63 |              |
| Insulated Glass - Low E1 - Argon - GBG           | 0.31     | 0.49 | 0.56 |              |
| Insulated Glass - Low E1 - Air                   | 0.34     | 0.54 | 0.63 |              |
| Insulated Glass - Low E1 - Air - GBG             | 0.34     | 0.49 | 0.56 |              |
| Insulated Glass - Low E3 / Low ERS - Air         | 0.28     | 0.22 | 0.50 | NC, SC, S    |
| Insulated Glass - Low E3 / Low ERS - Air - GBG   | 0.28     | 0.20 | 0.45 | NC, SC, S    |
| Insulated Glass - Low E2 - Argon - GBG           | 0.30     | 0.30 | 0.51 | NC           |
| Insulated Glass - None - Air                     | 0.48     | 0.62 | 0.65 |              |



## Unit Features

Essential Double Hung: ESDH

For applicable certification and code information, refer to the Introduction and Product Performance chapter.

### Frame and Sash:

- The frame and sash exteriors are made of Ultrex®, an advanced fiber reinforced material that is resistant to thermal conductance.
- Exterior colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony.
- Interior coating meets all the requirements in Stone White, Bronze, Ebony.
- Split finishes are not available on Dark Interior option. Only Bronze interior/Bronze exterior and Ebony interior/Ebony exterior combinations are available for dark interior options.

#### Frame:

- Composite frame thickness is 1 3/8", (35). Frame width is 3 3/32", (79). Flat bottom sill with 11 degree bevel. Ultrex is .065"-070" (2) thick.

#### Sash:

- Composite sash thickness is 15/16" (24). Ultrex is .065" - .070" (2) thick. Sash can be replaced by cannot be re-glazed.
- Cottage style unit: Sash divided 2/5 over 3/5.
- Oriel style unit: Sash divided 3/5 over 2/5.

### Jamb Extension:

- 2" (51) is standard
- 4 9/16" (116) and 6 9/16" (167) maintenance free jamb extension available
- Available in Stone White, Bronze, or Ebony. Default color will match the unit interior selection. Stone White jamb extension is available for all unit interior color selections.

### Hardware:

- Balance system is a coil spring block and tackle system
  - Nylon cord and steel locking shoe
- High pressure zinc die cast check rail lock and keeper.
  - Lock employs a cam-lock mechanism
  - Two locks on rough openings over 30" (762) wide
- Cam Lock, Keeper and Fastener Default Color: Stone White for Stone White Interior, Oil Rubbed Bronze for Bronze Interior, Matte Black for Ebony Interior.
  - Optional Stone White, Almond Frost, Brass, Satin Nickel, Matte Black, and Oil Rubbed Bronze hardware finishes available
- Tilt Latches, Top Sash Pull and Sash Lift will match the unit interior color (Stone White, Bronze or Ebony).
- Bottom Sash employs tilt latches to allow for easy tilting of sash
- Optional factory applied Window Opening Control Device is available in Black or White color finish.  
(min size: 17 27/32" (453) x 24" (610) - max size: 36" (914) x 71 1/8" (1807))
- ABS sash travel limiter is available for field application in Beige color finish with Stone White or Matte Black screws.
- Non-operable lock is available for field application. Available colors: Stone White, Almond Frost, Brass, Oil Rubbed Bronze, Satin Nickel, Matte Black.

### Installation:

- Factory applied folding nailing fin
- Optional through jamb installation method with brackets
- Factory supplied mulling kits are available for standard assemblies

### Glazing:

- Dual-pane units are manufactured with an 11/16" (17) IG with Low E2, E3, E1, E3/ERS, or no coating including argon gas or air fill.
- Tempered glass and/or obscure glass, and California Fire glass (annealed exterior and tempered interior glazing configuration) are available as an option.
- The glazing seal is a silicone bedding on the exterior surface, and vinyl glazing seal on the interior surface.
- The perimeter spacer default color is mill finish (stainless). An optional black perimeter spacer color is available for all unit interior color selections.
- STC/OITC values are available for 3.1 mm thickness glass.
  - Optional 3.1/4.7 STC/OITC Upgrade glass is available. See the Product Performance chapter for STC and OITC ratings.
- Decorative glass options include frost, glue chip, rain, reed, narrow reed and tinted (bronze, gray or green).
  - Decorative glass is not available with Low E3/ERS or STC/OITC.

**Unit Features Continued****Weather Strip:**

- Sill is foam filled vinyl bulb. Color: Beige for Stone White interior, Black for Bronze and Ebony interiors.
- Bottom sash is sealed to the jambs using foam filled vinyl bulb. Color: beige for Stone White interior, black for Bronze and Ebony interiors.
- Top sash is sealed to the jambs using a hollow vinyl bulb. Color: stone white rigid/bulb for Stone White interior, black rigid/bulb for Ebony interior and Bronze rigid/black bulb for Bronze interior.
- Check rails are sealed using rigid vinyl with flexible seal. Top sash check rail cover is beige for Stone White interior and black for Bronze and Ebony interiors. Bottom sash check rail cover will match the unit interior color (Stone White, Bronze or Ebony).

**Screen:**

- Roll formed aluminum frame with corner key construction
- Available in finish to match the exterior Ultrex frame color
- Charcoal color fiberglass (non-corrosive) screen cloth.
- Spring loaded pins for installation.
- Available in standard full screen or optional half screen

*NOTE: Screen bar added when frame OM (height) is equal to or greater than 47 1/2" (1207)*

**Grilles-Between-The-Glass (GBG):**

- 11/16" (17) contoured aluminum bar placed between two panes of glass
- Pattern: Standard rectangular pattern, optional 6 or 9 lite Prairie cut, or Cottage style cut on Double Hung
- Exterior Colors: Stone White, Pebble Gray, Bronze, Evergreen, Cashmere, or Ebony
- Interior Colors: Stone White, Bronze or Ebony (matches unit interior color).
- Not available with tinted glass.

**Accessories:**

- Field Applied: J-Channel, a 1" (25) or 3" (76) frame expander, Flush Fin installation kit
- Factory Applied: Sheet rock return for 1/2" (13) or 5/8" (16) drywall, a 3/4" (19) receiver, a frame filler or a flush fin.
- Sheet rock return and 3/4" receiver color options: Stone White, Bronze or Ebony. Default color will match unit interior selection. Stone White sheet rock return and 3/4" receiver are available for all unit interior color selections.
- General Mull kits are available for field assembly

**Exterior Casing:**

- Non-integral to the unit
- Fastened to the exterior wall with barb and kerf: 2" brick mould as a full surround or with sill nosing
- 3 1/2" flat casing available as full surround or with sill nosing
- Available with 1" ranch style and header overhang

*NOTE: NFRC Values are now located on [www.marvin.com](http://www.marvin.com)*

### ENERGY STAR® Program - United States

[www.energystar.gov](http://www.energystar.gov)

#### About ENERGY STAR®

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

#### Residential Windows, Doors and Skylights

Thanks to advances in technology, today's ENERGY STAR® qualified windows, doors, and skylights offer greater savings than ever before. Just look for the ENERGY STAR® label.

Save energy and money.

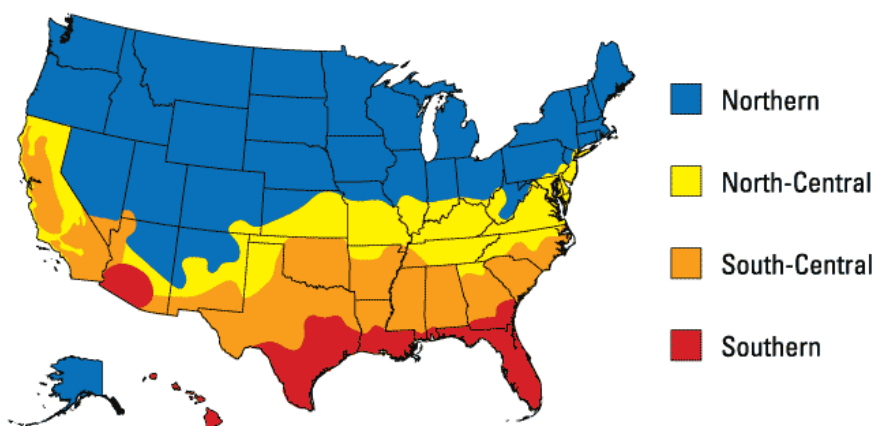
Replacing old windows with ENERGY STAR® qualified windows lowers household energy bills. Lower energy consumption also reduces greenhouse gas emissions from power plants and shrinks a house's carbon footprint.

Current Specification Effective Date: January 1, 2016

As of January 1, 2016, ENERGY STAR® qualified windows, doors, and skylights meet new performance levels, see below.

Windows and skylights must meet NFRC U-Factor and, where applicable, Solar Heat Gain Coefficient (SHGC) requirements based on climate zone. Doors must meet U-Factor and, where applicable, SHGC requirements based on glazing level (amount of glass).

At this time, most Marvin product lines qualify for the ENERGY STAR® program. For more specific information, please refer to the individual product sections in your Marvin catalog.



| WINDOWS       |                       |                   |                               |
|---------------|-----------------------|-------------------|-------------------------------|
| CLIMATE ZONE  | U-FACTOR <sup>1</sup> | SHGC <sup>2</sup> |                               |
| Northern      | ≤ 0.27                | Any               | Prescriptive                  |
|               | ≥ 0.28                | ≥ 0.32            | Equivalent Energy Performance |
|               | ≥ 0.29                | ≥ 0.37            |                               |
|               | ≥ 0.30                | ≥ 0.42            |                               |
| North Central | ≤ 0.30                | ≤ 0.40            |                               |
| South Central | ≤ 0.30                | ≤ 0.25            |                               |
| Southern      | ≤ 0.40                | ≤ 0.25            |                               |

| DOORS         |                       |                           |        |
|---------------|-----------------------|---------------------------|--------|
| GLAZING LEVEL | U-FACTOR <sup>1</sup> | SHGC <sup>2</sup>         |        |
| Opaque        | ≤ 0.17                | No Rating                 |        |
| ≤ ½-Lite      | ≤ 0.25                | ≤ 0.25                    |        |
| > ½-Lite      | ≤ 0.30                | Northern<br>North-Central | ≤ 0.40 |
|               |                       | Southern<br>South-Central | ≤ 0.25 |

## ENERGY STAR® Most Efficient - United States

The ENERGY STAR® Most Efficient mark is an extension of the ENERGY STAR® brand and is designed to recognize and advance the most efficient products among those that qualify for ENERGY STAR®. This recognition is for specific categories and awarded for a specific year.

Marvin has long been a leader in providing our customers with energy efficient options. We are pleased to announce that Marvin meets the US ENERGY STAR® Most Efficient criteria with over 50 product types and 13,000+ glazing options.

### MOST EFFICIENT CRITERIA

| Energy Star Zone | U-factor    | SHGC        |
|------------------|-------------|-------------|
| Northern         | $\leq 0.20$ | $\geq 0.20$ |
| North-Central    | $\leq 0.20$ | $\leq 0.40$ |
| South-Central    | $\leq 0.20$ | $\leq 0.25$ |
| Southern         | $\leq 0.20$ | $\leq 0.25$ |

As more product and glazing options are certified throughout the year, additional qualifying options will become available. The EPA has set up a page on its website where consumers can go to find all of the Marvin options that meet the Most efficient criteria.

To view the latest listing for [casement windows](#)

To view the latest listing for [horizontal sliding windows](#)

To view the latest listing for [vertical sliding windows](#)

To view the latest listing for [fixed windows](#)





January 2020

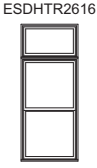
MARVIN ESSENTIAL™ COLLECTION

DOUBLE HUNG - Transoms and Multiple Assemblies

Transom Muller Over Double Hung

|         |                   |
|---------|-------------------|
| MO (mm) | 2' - 6" (762)     |
| RO (mm) | 2' - 6" (762)     |
| FS (mm) | 2' - 5 1/2" (749) |

5' - 11 3/4" (1822)  
6' - 0" (1829)  
5' - 11 1/2" (1816)



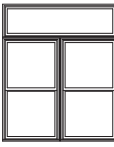
ESDHTR2616

ESDH2646

Transom Muller Over Double Hung 2 Wide

|         |                     |
|---------|---------------------|
| MO (mm) | 5' - 0" (1524)      |
| RO (mm) | 5' - 0" (1524)      |
| FS (mm) | 4' - 11 1/2" (1511) |

5' - 11 3/4" (1822)  
6' - 0" (1829)  
5' - 11 1/2" (1816)



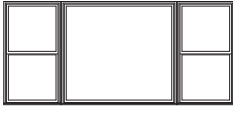
ESDHTR5016

ESDH2646 / ESDH2646

Double Hung Flankers with Center Picture\*

|         |                     |
|---------|---------------------|
| MO (mm) | 10' - 0" (3048)     |
| RO (mm) | 10' - 0" (3048)     |
| FS (mm) | 9' - 11 1/2" (3035) |

4' - 5 3/4" (1365)  
4' - 6" (1372)  
4' - 5 1/2" (1359)



ESDH2646 / ESDHP5046 / ESDH2646

Double Hung Flankers with Center Operator

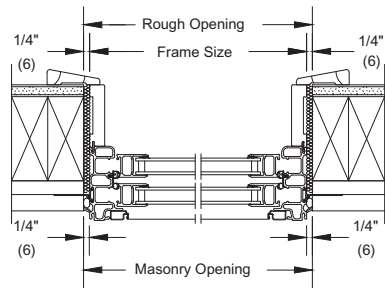
|         |                    |
|---------|--------------------|
| MO (mm) | 7' - 6" (2286)     |
| RO (mm) | 7' - 6" (2286)     |
| FS (mm) | 7' - 5 1/2" (2273) |

4' - 5 3/4" (1365)  
4' - 6" (1372)  
4' - 5 1/2" (1359)

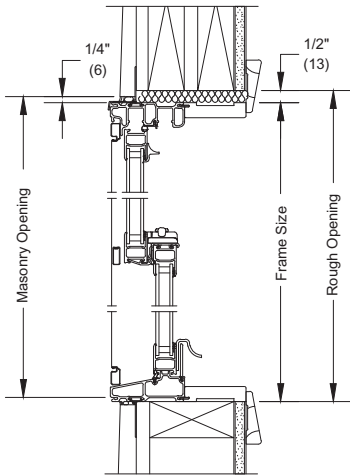


ESDH2646 / ESDH2646 / ESDH2646

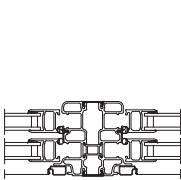
Construction Details



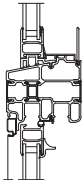
Jambs



Head Jamb  
& Sill



Vertical Mullion



Horizontal Mullion  
Transom/Operator

\* This product is only available field muller.

Details and Elevations not to scale.

Available in equal, cottage, and reverse cottage sash configurations. Cottage and reverse cottage sash configurations are not available on 20, 60, and 66 call number heights.

Obscure Glass option available on all units.

Special sized units available within product size matrix. See your Marvin retailer.

Units may optionally include a window opening control device tested to ASTM F2090-10, which can be released from the inside without the use of a key, tool, special knowledge, or force greater than that required for normal unit operation.

See page 52 for specific PG Ratings.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

MULTIPLE ASSEMBLIES

Multiple assemblies can be factory muller.

MAXIMUM ROUGH OPENING not to exceed 114" x 78". Maximum up to 6 units wide by 1 unit high.

MAXIMUM ROUGH OPENING not to exceed 96" x 96". Maximum up to 5 units wide by 5 units high.

Field mull kits are available. Structural mullion reinforcement is required for some assemblies.

Please consult your local Marvin representative for more information.



HEAT PUMPS

**Feel the possibilities.**  
Cooling & Heating Solutions  
from Mitsubishi Electric

Comfort | Efficiency | Health



**MITSUBISHI  
ELECTRIC**  
COOLING & HEATING



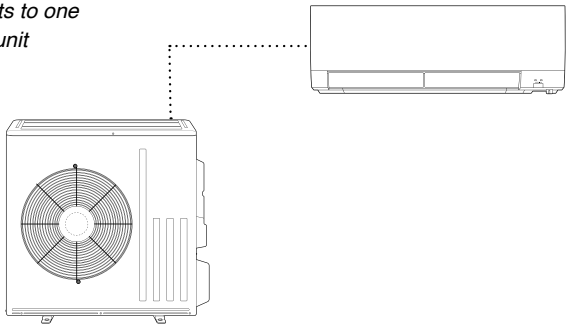
Banyan Photography



Single-zone System

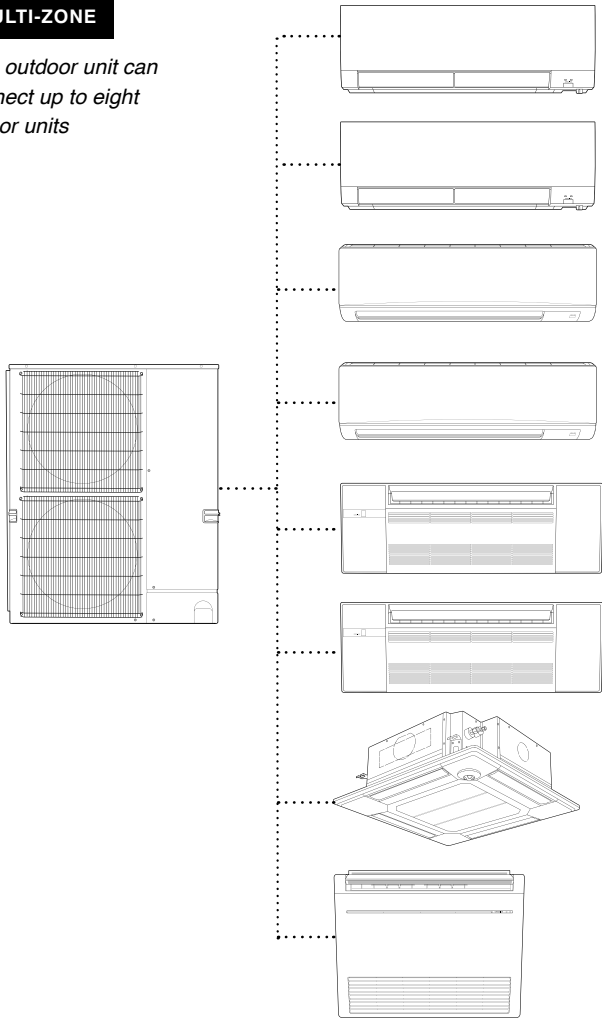
SINGLE-ZONE

One outdoor unit connects to one indoor unit



MULTI-ZONE

One outdoor unit can connect up to eight indoor units



Outdoor units and indoor units are available in single-zone and multi-zone versions.

With single-zone equipment, one outdoor unit connects to one indoor unit (see pages 18-25 for indoor units available). This option is ideal if you only need cooling and heating in a single space.

With multi-zone equipment, one outdoor unit can connect up to eight indoor units. This option is perfect if you need cooling and heating in multiple spaces with different functions, such as a nursery versus a kitchen or an office versus a conference room.

Each zone is served by its own indoor unit. Indoor units come in a variety of forms including wall-mounted units, floor-mounted units, ceiling cassettes and air handlers.

Wall-mounted units tend to be the most popular, but a floor-mounted unit could be an attractive option for a sunroom that has windows, but no wall space. A high-performance air handler could replace an older system, such as a central system or boiler that previously cooled or heated an open space.



# Which outdoor unit is right for me?

Say goodbye to the noisy outdoor units of conventional systems. Our outdoor units operate as low as 46 decibels — the level of a typical conversation. Each unit has a space-saving compact design and is available in a variety of sizes to suit different cooling and heating requirements.

## Single-Zone

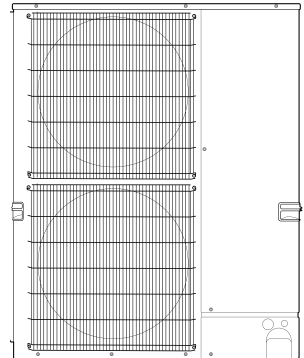
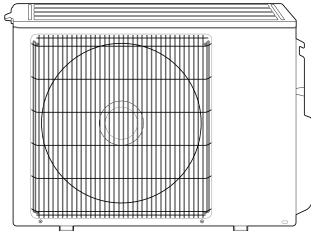
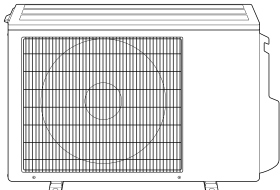
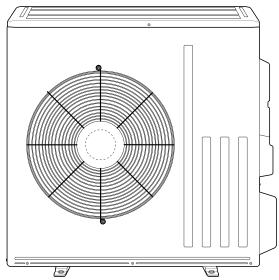
Available as a cooling only, heat pump or a hyper-heating heat pump, each outdoor unit connects to a single indoor unit through refrigerant lines. These outdoor units have INVERTER-driven compressors that only use the precise amount of energy needed to keep the space comfortable.

## Multi-Zone

Available as a heat pump or an H2i® hyper-heating heat pump, each outdoor unit is capable of connecting up to eight indoor units. These outdoor units have INVERTER-driven compressors that only use the precise amount of energy needed to keep the space comfortable.



Photos © 2018 Scripps Networks, LLC. Used with permission; all rights reserved.



Multi-zone System



LED 10W & 13 Wallpacks. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze

Weight: 3.3 lbs

**Project:**  
Pine and Flynn

**Type:**  
C

**Prepared By:**  
A. Murphy

**Date:**  
06/28/16

#### Driver Info

|              |                  |
|--------------|------------------|
| Type:        | Constant Current |
| 120V:        | 0.13A            |
| 208V:        | 0.08A            |
| 240V:        | 0.07A            |
| 277V:        | 0.06A            |
| Input Watts: | 15W              |
| Efficiency:  | 87%              |

#### LED Info

|                 |        |
|-----------------|--------|
| Watts:          | 13W    |
| Color Temp:     | 4000K  |
| Color Accuracy: | 83 CRI |
| L70 Lifespan:   | 100000 |
| Lumens:         | 673    |
| Efficacy:       | 45 LPW |

## Technical Specifications

### Listings

#### UL Listing:

Suitable for Wet Locations as a Downlight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of ground.

#### Dark Sky Approved:

The International Dark Sky Association has approved this product as a full cutoff, fully shielded luminaire.

#### IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and 80, and have received the Department of Energy "Lighting Facts" label.

### Optical

#### Lumen Maintenance:

100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

#### Fixture Efficacy:

44.6 Lumens per Watt

#### Lumen Maintenance:

The LED will deliver 70% of its initial lumens at 100,000 hours of operation.

#### BUG Rating:

B1 U0 G0

### Construction

#### Cold Weather Starting:

The minimum starting temperature is -40°F/-40°C.

#### Ambient Temperature:

Suitable for use in 50°C (122°F) ambient temperatures.

#### Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

#### Green Technology:

RAB LEDs are Mercury and UV free.

#### For use on LEED Buildings:

IDA Dark Sky Approval means that this fixture can be used to achieve LEED Credits for Light Pollution Reduction.

#### Gaskets:

High Temperature Silicone.

### Electrical

#### Driver:

Multi-chip 13W high output long life LED Driver Constant Current, Class 2 100V - 277V, 50/60 Hz.

#### Surge Protection:

4KV

### LED Characteristics

#### Color Temperature (Nominal CCT):

4000K

#### Color Accuracy:

86 CRI

#### Color Consistency:

3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

#### Color Stability:

LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

#### Color Uniformity:

RAB's range of CCT (Correlated color temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2015.

### Other

#### Patents:

The design of the LPACK is protected by U.S. Pat. D604,004 and patents pending in Canada, China and Taiwan.

#### California Title 24:

See WPLED13/PC for a 2013 California Title 24 compliant model.

#### Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

#### Equivalency:

The WPLED13 is Equivalent in delivered lumens to a 100W Metal Halide Wallpack.

#### HID Replacement Range:

The WPLED13 can be used to replace 70-150W Metal Halide Wallpacks based on delivered lumens.

#### Country of Origin:

Designed by RAB in New Jersey and assembled in the USA by RAB's IBEW Local 3 workers.

Technical Specifications (continued)

Other

Buy American Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Buy American Act.

Recovery Act (ARRA) Compliant:

This product complies with the 52.225-21 "Required Use of American Iron, Steel, and Manufactured Goods-- Buy American Act-- Construction Materials (October 2010).

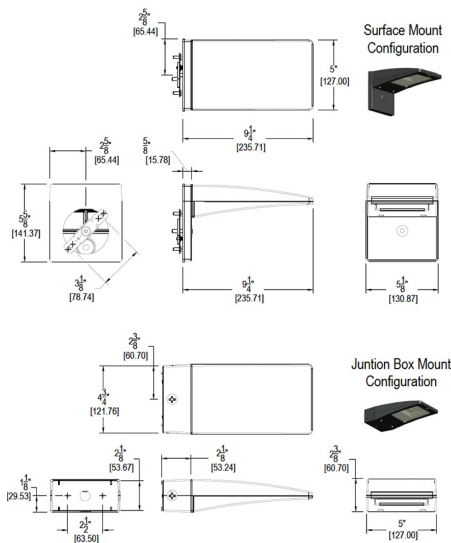
Trade Agreements Act Compliant:

This product is a COTS item manufactured in the United States, and is compliant with the Trade Agreements Act.

GSA Schedule:

Suitable in accordance with FAR Subpart 25.4.

Dimensions



Features

- High performance LED light engine
- Maintains 70% of initial lumens at 100,000 hours
- Weatherproof high temperature silicone gaskets
- Superior heat sinking with die cast aluminum housing and external fins
- 5-year warranty

Ordering Matrix

| Family | Watts    | Color Temp          | Sensor           | Surface Plate      | Surface Place     | Finish    | Photocell          |
|--------|----------|---------------------|------------------|--------------------|-------------------|-----------|--------------------|
| WPLED  |          |                     |                  |                    |                   |           |                    |
|        | 10 = 10W | = 5000K (Cool)      | = No Sensor      | = No Surface Plate | S = Surface Plate | = Bronze  | = No Photocell     |
|        | 13 = 13W | Y = 3000K (Warm)    | MS = Mini Sensor |                    |                   | W = White | /PC = 120V Button  |
|        |          | N = 4000K (Neutral) |                  |                    |                   |           | /PCS = 120V Swivel |
|        |          |                     |                  |                    |                   |           | /PC2 = 277V Button |



## 323 COLLEGE STREET - EXISTING CONDITIONS PHOTOS



VIEW TO SOUTHWEST FROM COLLEGE STREET



VIEW TO SOUTH FROM COLLEGE STREET



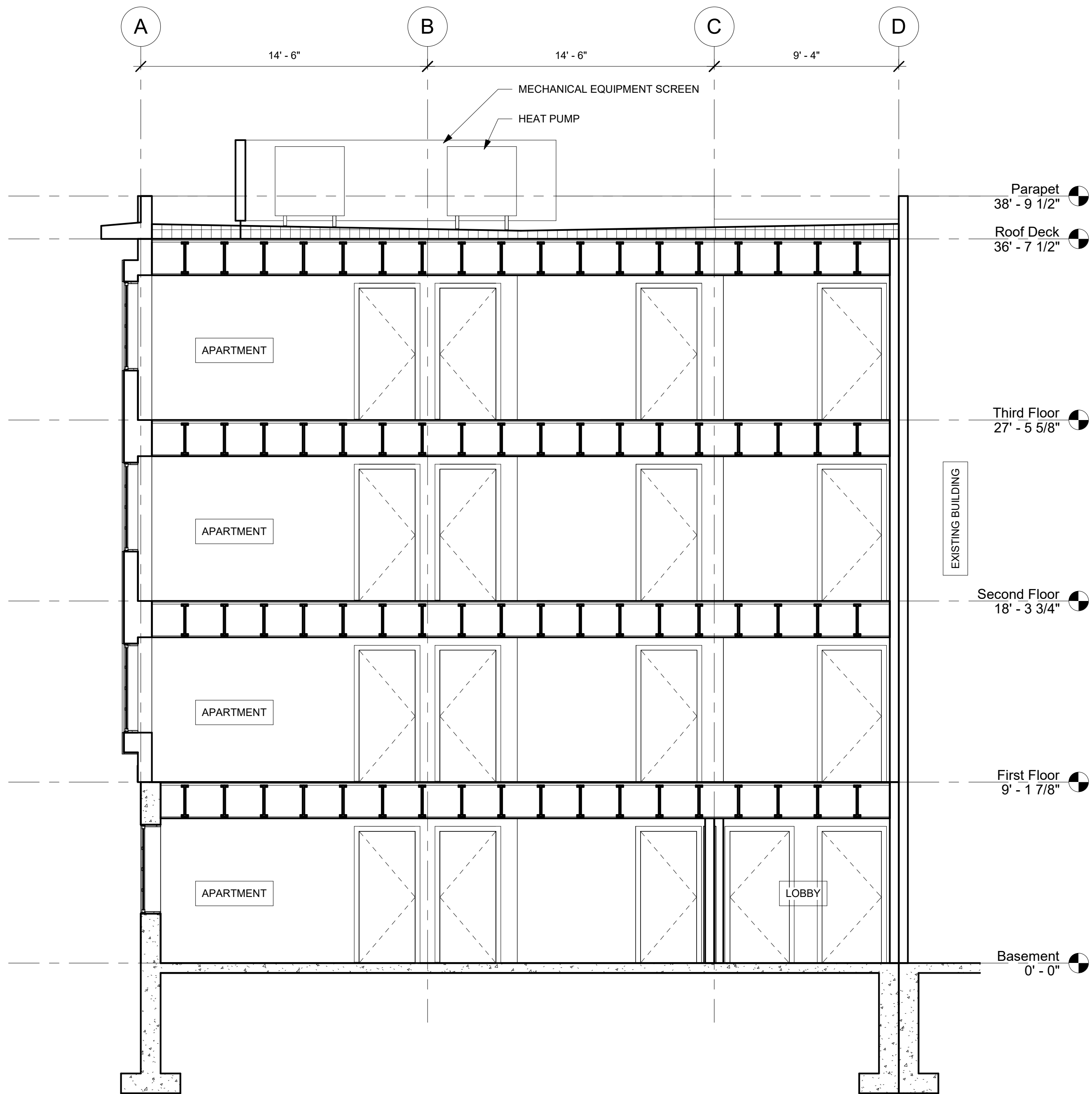
VIEW TO SOUTHEAST FROM COLLEGE STREET



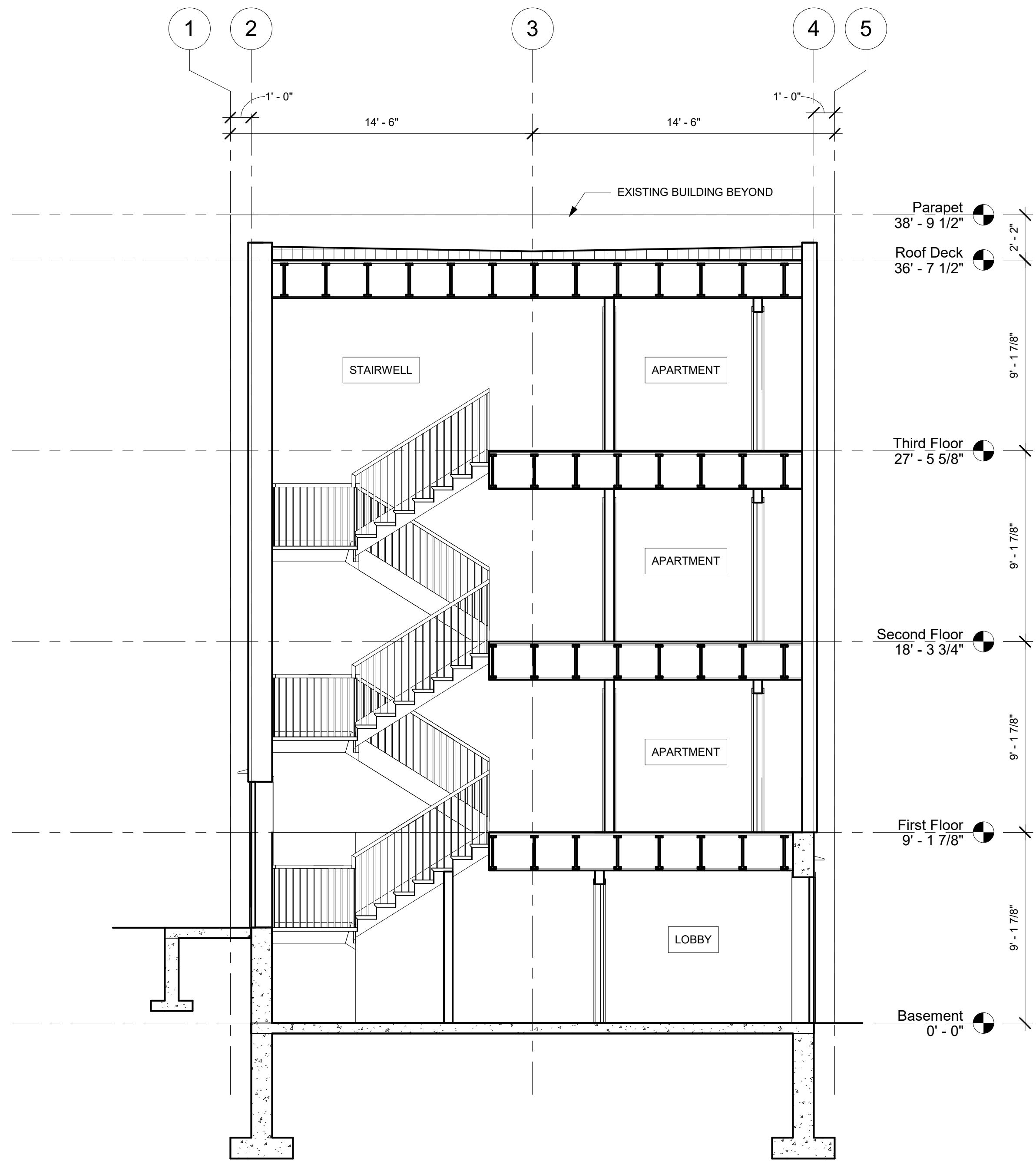


Daniel Goltzman Design & Development

119 Caroline Street  
Burlington, Vermont 05401  
646-957-4248



1 North-South Section  
1/4" = 1'-0"



2 Section Through Stairwell  
1/4" = 1'-0"

| No. | Description | Date |
|-----|-------------|------|
|-----|-------------|------|

Greencastle LLC

323 College Street

Sections

|                  |               |
|------------------|---------------|
| Project number : | 202002        |
| Date :           | 15 June 2020  |
| Drawn by :       | DLG           |
| Checked by :     | DLG           |
| Project Phase :  | Zoning Permit |

A300

Scale : 1/4" = 1'-0"

# Computations



**Project:** 323 College St.  
**Location:** Burlington VT  
**Calculated by:** CHS  
**Checked by:** PBS  
**Title:** Front Yard Setback Calculations

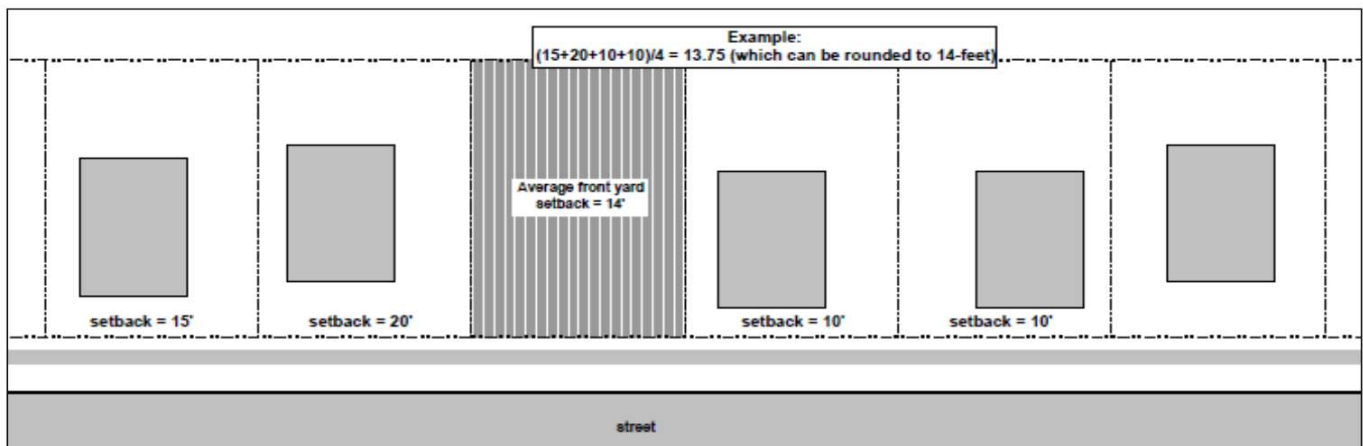
**Project #:** 57970.00  
**Sheet:** 1 1  
**Date:** 10/7/20  
**Date:** 10/7/20

**Front Yard Setbacks:** Zoning District: RH High Density Residential: Min/Max: Ave of 2 adjacent lots on both sides +/- 5-feet

**Source:** P. 4-35 of Article 4 <https://www.burlingtonvt.gov/sites/default/files/20200429%20ART04-Districts.pdf>

**Graphic Source:** P. 5-8 of Article 5 <https://www.burlingtonvt.gov/sites/default/files/20200429%20ART05-CitywideGeneral%20Regulations.pdf>

**VHB Graphic Source:** File: \\vhb\gbl\proj\SBurlington\57970.00 CDB Greencastle Main St\cad\ld\Eng\FrontYardSetbacks.dwg Location: \\vhb\gbl\proj\SBurlington\57970.00 CDB Greencastle Main St\cad\ld\Eng\



| Property            | Front Yard Setback (ft) |
|---------------------|-------------------------|
| 301 College St.     | 34.4                    |
| 309 College St.     | 31.1                    |
| 323-325 College St. | 29.0                    |
| 335 College St.     | 23.7                    |
| 343 College St.     | 27.0                    |

Average





## Legend

- ## Proposed Addition
- ### 323 Greencastle

323 College Street  
Burlington, Vermont

|             |            |
|-------------|------------|
| Designed by | Checked by |
|-------------|------------|

Review July 14, 2020

Drawing Title

**Existing Conditions  
Plan of Land**

**Sv-1**

1 of 5

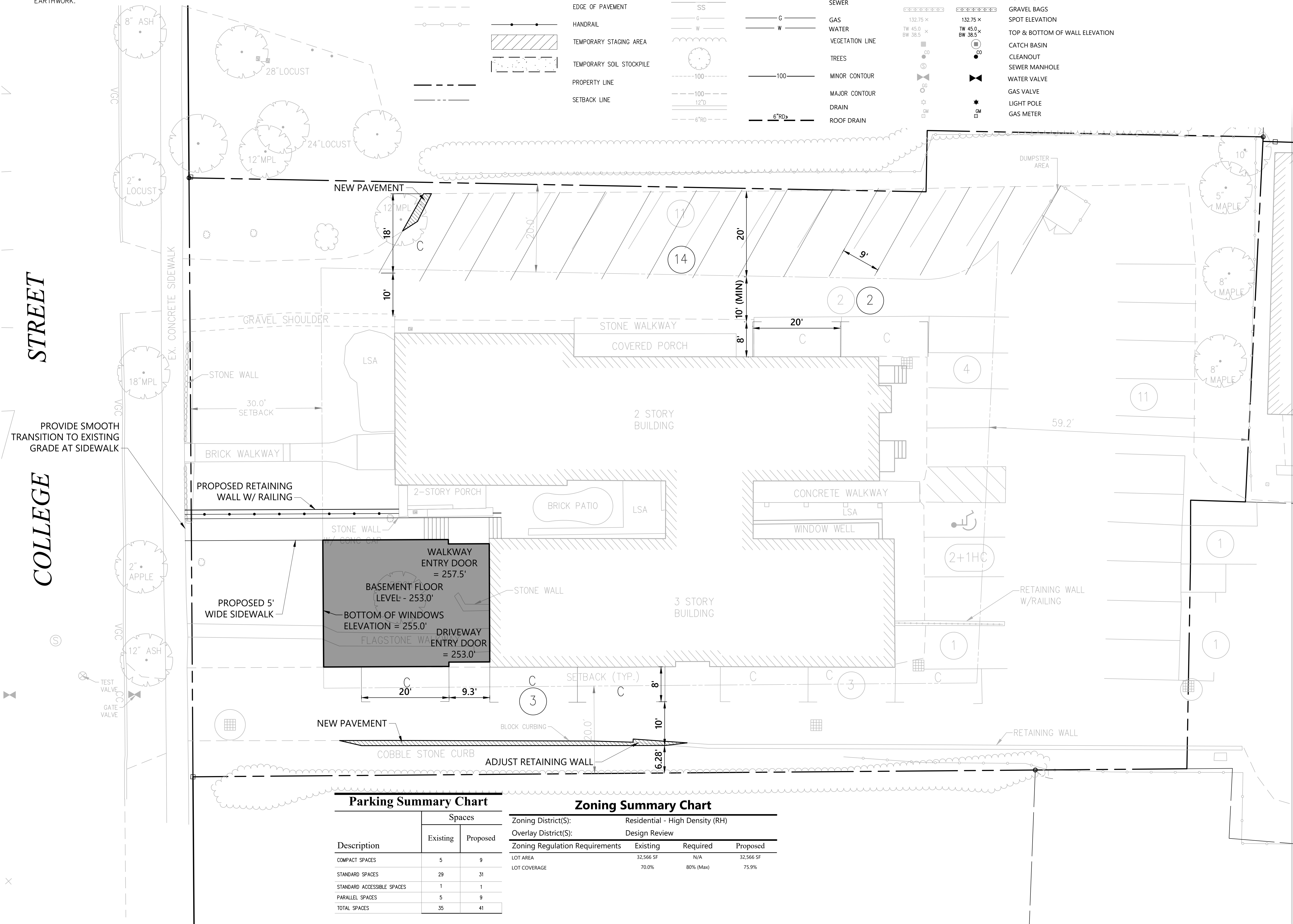
Project Number  
7970.00



Project Number  
57970.00

### Legend

- 1) THE PROPERTY LINES SHOWN ARE BASED UPON A BOUNDARY SURVEY PLAT FOR THE SUBJECT PROPERTIES, ENTITLED "BOUNDARY LINE ADJUSTMENT SURVEY PLAT", PREPARED BY VHB, DATED MAY 30, 2018, REVISED JUNE 29, 2018.
- 2) EXISTING CONDITIONS SHOWN ARE BASED UPON VHB FIELD SURVEY PERFORMED JUNE 2010 AND COMPILE OF AVAILABLE EXISTING UTILITY RECORDS. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING ANY EARTHWORK.

[illegible]

| Parking Summary Chart      |          |          |
|----------------------------|----------|----------|
| Description                | Spaces   |          |
|                            | Existing | Proposed |
| COMPACT SPACES             | 5        | 9        |
| STANDARD SPACES            | 29       | 31       |
| STANDARD ACCESSIBLE SPACES | 1        | 1        |
| PARALLEL SPACES            | 5        | 9        |
| TOTAL SPACES               | 35       | 41       |

| Zoning Summary Chart           |                                 |           |           |
|--------------------------------|---------------------------------|-----------|-----------|
| Zoning District(S):            | Residential - High Density (RH) |           |           |
| Overlay District(S):           | Design Review                   |           |           |
| Zoning Regulation Requirements | Existing                        | Required  | Proposed  |
| LOT AREA                       | 32,566 SF                       | N/A       | 32,566 SF |
| LOT COVERAGE                   | 70.0%                           | 80% (Max) | 75.9%     |

**Proposed Addition**  
**323 Greencastle, LLC**

323 College Street  
Burlington, Vermont

[illegible]

|                             |                              |
|-----------------------------|------------------------------|
| Designed by<br><b>CHS</b>   | Checked by<br><b>PBS</b>     |
| Issued for<br><b>Review</b> | Date<br><b>July 14, 2020</b> |

Not Approved for Construction

# Layout and Materials Plan

Drawing Number

# C1.01

Sheet 2 of 5

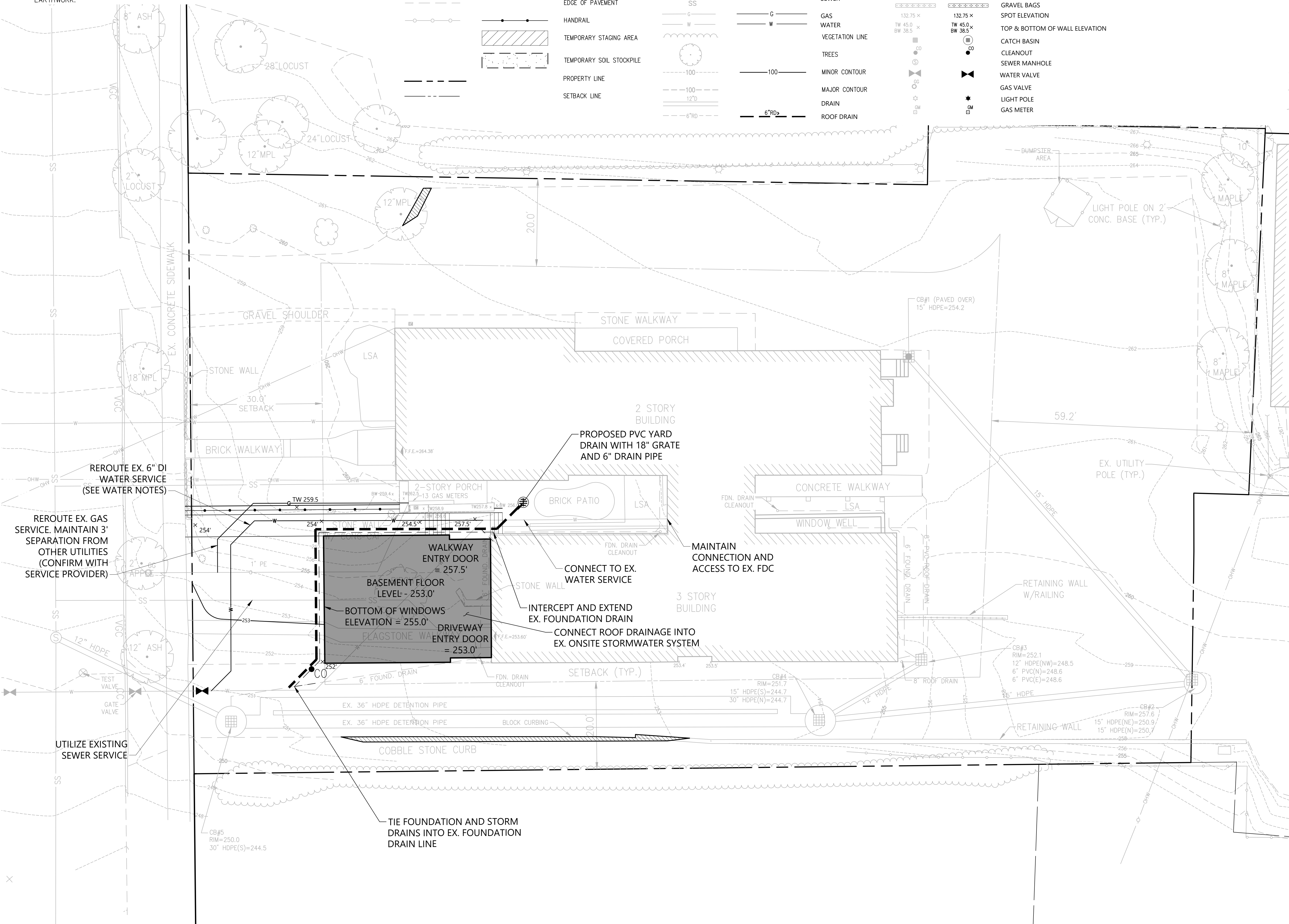




101 Walnut Street  
PO Box 9151  
Watertown, MA 02471  
617.924.1770

NOTES:

- 1) THE PROPERTY LINES SHOWN ARE BASED UPON A BOUNDARY SURVEY PLAT FOR THE SUBJECT PROPERTIES, ENTITLED "BOUNDARY LINE ADJUSTMENT SURVEY PLAT", PREPARED BY VHB, DATED MAY 30, 2018, REVISED JUNE 29, 2018.
- 2) EXISTING CONDITIONS SHOWN ARE BASED UPON VHB FIELD SURVEY PERFORMED JUNE 2020 AND A COMPILATION OF AVAILABLE EXISTING UTILITY RECORDS. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PERFORMING ANY EARTHWORK.



**Proposed Addition**  
**323 Greencastle, LLC**

323 College Street  
Burlington, Vermont

| No. | Revision | Date | Approved |
|-----|----------|------|----------|
|     |          |      |          |
|     |          |      |          |
|     |          |      |          |
|     |          |      |          |
|     |          |      |          |

|             |            |
|-------------|------------|
| Designed by | Checked by |
| CHS         | PBS        |

Review July 14, 2020

Not Approved for Construction

# Site Grading and Utility Plan

Drawing Number

## C2.01

Sheet 3 of 5

Project Number  
57970.0





Project Number

NOTES:

- EROSION CONTROL NOTES

- Saved Monday, July 13, 2020 10:37:14 PM CHALE-SILLS Plotted Tuesday, July 14, 2020 9:01:22 AM Hale-Sills, Chris



323 College Street  
Burlington, Vermont

| No. | Revision | Date | Apprd. |
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Not Approved for Construction

## Erosion and Sediment Control Plan

Drawing Number

# C3.01

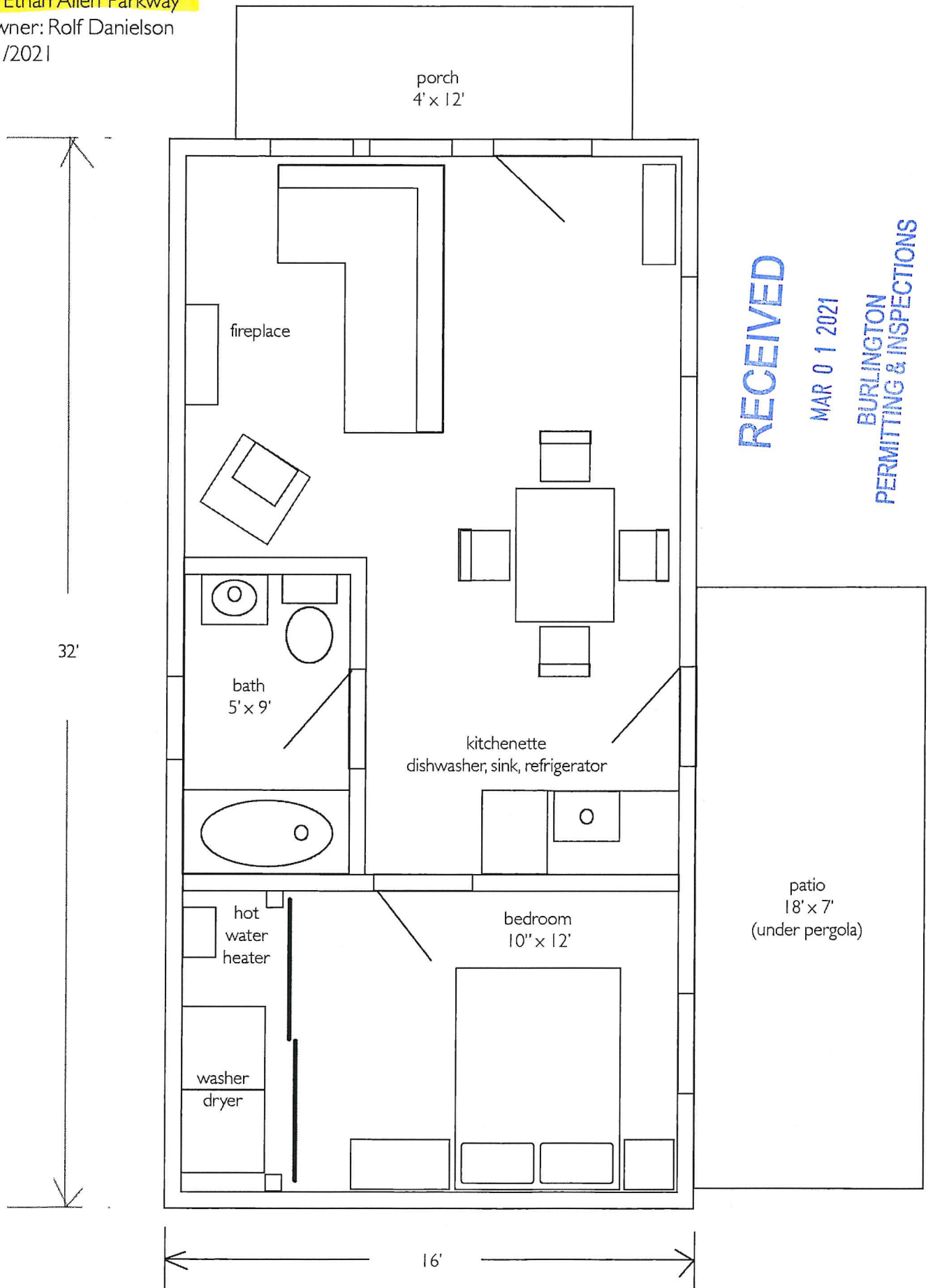
Sheet 4 of 5

Project Number  
**57970.00**





90 Ethan Allen Parkway  
Owner: Rolf Danielson  
3/1/2021



RECEIVED  
MAR 01 2021  
BURLINGTON  
PERMITTING & INSPECTIONS



90 Ethan Allen Parkway

Owner: Rolf Danielson

2/23/2021

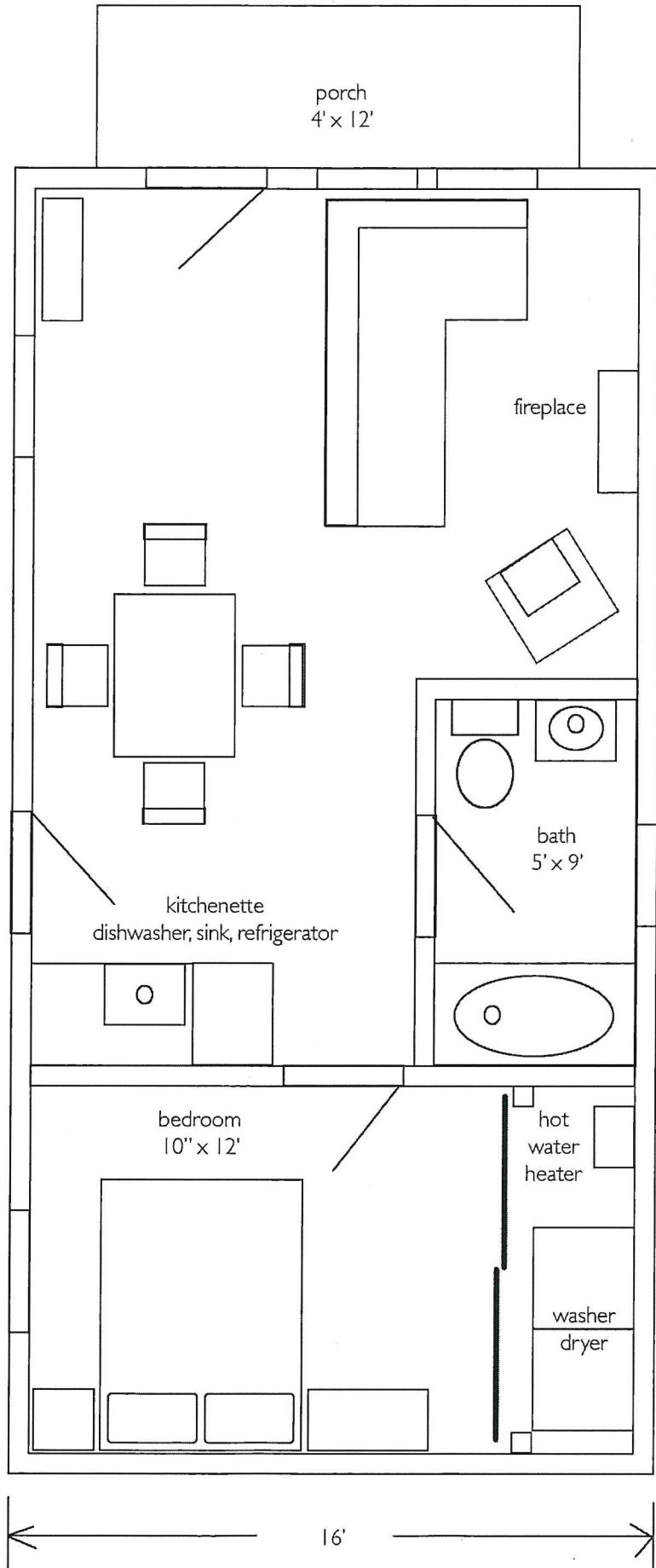
31)

RECEIVED

MAR 01 2021

BURLINGTON  
PERMITTING & INSPECTIONS

32'



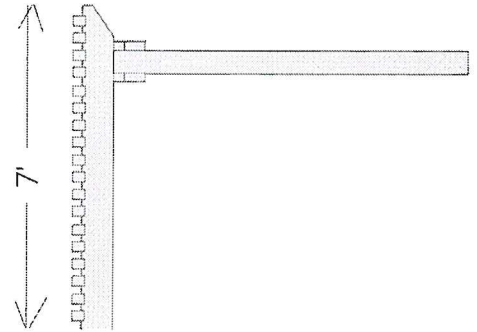
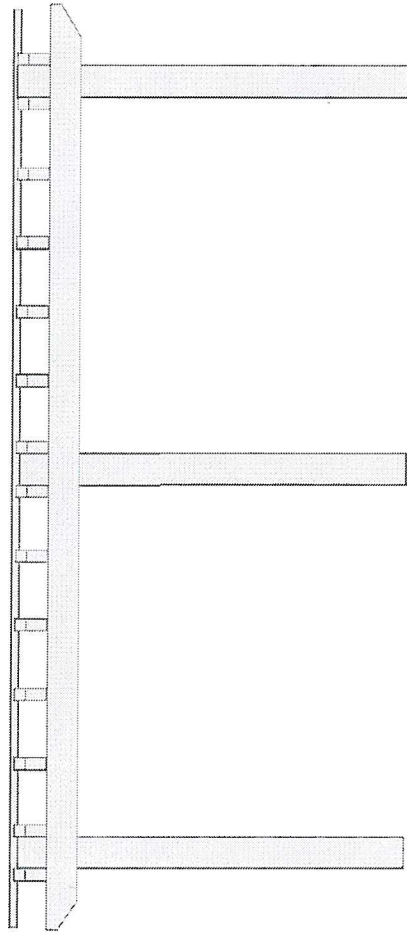
16'

unit 4

1" = 4'

90 Ethan Allen Parkway  
Rolf Danielson  
2/9/2021

8



pergola  
pressure treated wood,

RECEIVED  
FEB 10 2021  
BURLINGTON  
PERMITTING & INSPECTIONS

## Department of Permitting and Inspections

Zoning Division  
645 Pine Street  
Burlington, VT 05401  
[www.burlingtonvt.gov/pz](http://www.burlingtonvt.gov/pz)  
Phone: (802) 865-7188  
Fax: (802) 865-7195

*William Ward, Director  
Scott Gustin, AICP, CFM, Principal Planner  
Mary O'Neil, AICP, Principal Planner  
Ryan Morrison, Associate Planner  
Layne Darfler, Planning Technician  
Alison Davis, Zoning Clerk  
Theodore Miles, Zoning Specialist  
Charlene Orton, DPI Administrator*



## MEMORANDUM

**To:** Design Advisory Board  
**From:** Scott Gustin  
**Re:** 362 Riverside Avenue  
**Date:** October 27, 2020

---

**File:** ZP21-0409CA/MA  
**Location:** 362 Riverside Avenue  
**Zone:** NAC-R **Ward:** 1E  
**Parking District:** Multi-Modal Mixed Use  
**Date application accepted:** October 19, 2020 (incomplete pending lot merger plat)  
**Applicant/ Owner:** BlackRock Construction / Douglas Boyden  
**Request:** 64-Unit senior housing facility and related site work

### Background:

362 Riverside Ave:

- 6/30/92; Approval of renovations to existing single family home.
- 8/6/98; Approval of lot line adjustment.

366 Riverside Ave:

- 8/6/89; Approval of lot line adjustment.

370 Riverside Ave:

- 5/7/96; Approval to remove and replaced detached garage.

374 Riverside Ave:

- No prior zoning actions.

### Overview:

The applicant is seeking approval to construct a 64-unit senior housing complex with related site improvements. The site presently consists of 4 detached single dwelling units on individual lots under common ownership. The applicant proposes to demolish these homes and to merge the parcels into one parcel as part of the proposed development. The project is large enough to require "major impact" review and will be reviewed by the Conservation Board and Development Review Board in addition to the Design Advisory Board. The applicants did sketch plan review of this proposal with the Development Review Board on December 17, 2019.

### Part 1: Land Division Design Standards

No land division is proposed. Several lots will be merged into one.

### Part 2: Site Plan Design Standards

#### Sec. 6.2.2 Review Standards

The programs and services of the City of Burlington are accessible to people with disabilities. For accessibility information call 865-7188 (for TTY users 865-7142).

**(a) Protection of Important Natural Features:**

The property is not affected by any significant natural features as identified by the Natural Resource Protection Overlay map. The properties contain some trees and open lawn areas. Trees will be removed in order to clear the site for redevelopment with the senior housing facility.

**(b) Topographical Alterations:**

The project plans contain information as to existing and proposed grades. The site is sloped uphill away from Riverside Avenue and will remain so. Fairly limited topographic alteration is proposed. In large part, the building will be built with grades largely as they are now with some cut into the slope for the rear part of the building and related parking.

**(c) Protection of Important Public Views:**

There are no protected public views from or through this property.

**(d) Protection of Important Cultural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Archeological sites likely to yield information important to the city's or the region's pre-history or history shall be evaluated, documented, and avoided whenever feasible. Where the proposed development involves sites listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8(b).*

The project site has no known archaeological significance. It contains no archaeological site points, nor is it located within an archaeologically sensitive area. The buildings to be demolished are not included in an historic register.

**(e) Supporting the Use of Renewable Energy Resources:**

See Sec. 6.3.2 (f).

**(f) Brownfield Sites:**

The subject property is not included on the Vermont DEC Hazardous Site List. It is, however, close to a former city dump (now developed with Riverwatch condos) that is included on the hazardous site list. During sketch plan review, it was advised that the applicant do at least preliminary soil testing for contaminants that may influence project design. There is no indication within the application materials that such testing was done. Whether soil testing was done or not needs to be confirmed.

**(g) Provide for nature's events:**

*Special attention shall be accorded to stormwater runoff so that neighboring properties and/or the public stormwater drainage system are not adversely affected. All development and site disturbance shall follow applicable city and state erosion and stormwater management guidelines in accordance with the requirements of Art 5, Sec 5.5.3.*



The applicants have provided an erosion control plan and a post-construction stormwater management plan for review by the City's stormwater engineering staff. Their approval will be a condition of any decision.

*Design features which address the effects of rain, snow, and ice at building entrances, and to provisions for snow and ice removal or storage from circulation areas shall also be incorporated.*

Building entries are sheltered. Much of the parking is underneath the building. The driveway accessing the parking adjoins green space sufficient for wintertime snow storage. Similarly, there is adjacent green space for snow storage related to the open parking area.

**(h) Building Location and Orientation:**

The subject property is bordered on three sides by city streets. Appropriately, the proposed building is oriented towards Riverside Avenue and is set close to that front property line. The development pattern along this stretch of Riverside Avenue is irregular, and there is little "street wall" to reinforce. The building as proposed will strengthen the streetscape along this section of road.

**(i) Vehicular Access:**

A single primary curb cut and driveway will serve the proposed development. As recommended by this criterion, the driveway access will be along a secondary street, rather than Riverside Avenue. Sight lines at the driveway/street intersection appear to be adequate. A second curb cut and driveway will provide service vehicle access. It is unclear why a second, separate driveway is needed for service vehicle access.

**(j) Pedestrian Access:**

The building's primary entrance facing Riverside Avenue connects to the public sidewalk with a front walkway. The building's secondary frontage along Hillside Terrace is also served by a pedestrian walkway connecting an interior side entrance with the public sidewalk. The walkways are to be concrete and differentiated from the asphalt driveways.

**(k) Accessibility for the Handicapped:**

Handicap parking and access points are provided within the sheltered rear parking area. The primary entrance along Riverside Avenue is accessed by steps as well as by a level walkway. Additional accessibility provisions are under the purview of the building inspector.

**(l) Parking and Circulation:**

Given that the proposed building faces city streets on three sides, there is no back side to the building. That said, all of the parking is set behind the building as viewed from Riverside Avenue. Much of the parking is underneath the proposed building. A portion of the parking will be uncovered to the east. Screening of the parking as viewed from Hillside Terrace (west and east) will be provided with proposed landscaping and also by grade. As the parking extends south away from the building it drops below surrounding grades. Parking and circulation are dimensionally accurate per the standards of Article 8.

**(m) Landscaping, Fences, & Retaining Walls:**

A landscaping plan has been provided and depicts planting locations and species. Plantings are concentrated along the building's primary frontage facing Riverside Avenue. It continues around the corner along the secondary western frontage. Entryways are accented, and screening is provided. Additional plantings will serve to screen the rear parking area as viewed from Hillside Terrace.

Limited fencing is proposed for screening of parking and the dumpster enclosure. No fence detail is evident and is needed.

Several stretches of retaining wall are proposed where required by grade. Pre-formed "redi-rock" style blocks will be used. Visibility is limited but appears consistent with sections of exposed building foundation.

**(n) Public Plazas and Open Space:**

No public plazas are proposed. Given the limited amount of available ground space around the building, outdoor community space for residents will be provided on 4<sup>th</sup> story roof decks. Such location will likely afford residents expansive views of the Intervale and beyond.

**(o) Outdoor Lighting:**

*Where exterior lighting is proposed the applicant shall meet the lighting performance standards as per Sec 5.5.2.*

An exterior lighting plan has been provided and includes fixture types, locations, and illumination levels. The fixture types are acceptable – all are cut-off except for one. The one exception is acceptable as a low-output lighting fixture. Entryway and walkway illumination levels are acceptable. The parking lot lighting; however, is too bright. Maximum permissible illumination is 4 footcandles with a 20:1 uniformity ratio. Lighting levels go up to 7.4 footcandles and need to be adjusted downward to conform to this standard.

**(p) Integrate infrastructure into the design:**

*Exterior storage areas, machinery and equipment installations, service and loading areas, utility meters and structures, mailboxes, and similar accessory structures shall utilize setbacks, plantings, enclosures and other mitigation or screening methods to minimize their auditory and visual impact on the public street and neighboring properties to the extent practicable.*

A dumpster enclosure sits between the building and Hillside Terrace. While the location is not ideal, the enclosure is screened and is tucked into the corner of the building. Mailboxes are located within the residential lobby.

*Utility and service enclosures and screening shall be coordinated with the design of the principal building, and should be grouped in a service court away from public view. On-site utilities shall be placed underground whenever practicable. Trash and recycling bins and dumpsters shall be located, within preferably, or behind buildings, enclosed on all four (4) sides to prevent blowing trash, and screened from public view.*

*Any development involving the installation of machinery or equipment which emits heat, vapor, fumes, vibration, or noise shall minimize, insofar as practicable, any adverse impact on*

*neighboring properties and the environment pursuant to the requirements of Article 5, Part 4 Performance Standards.*

Interior mechanical space is depicted on the floor plans. See Plan A102. Electrical service connection is not evident on the utility plan. Power lines serving the building must be buried and utility boxes must be screened.

### **Part 3: Architectural Design Standards**

#### **Sec. 6.3.2 Review Standards**

#### **(a) Relate development to its environment:**

##### ***1. Massing, Height and Scale:***

The proposed building is large. In an effort to mitigate perceived mass, the structure is broken into several distinct sections defined by recesses, projections, and differing building materials. Storefront fenestration at ground level along Riverside Avenue helps to further define and distinguish the building's primary interface with the public street. Building height differs by section and along the adjacent grades. Height is compliant at 45' as demonstrated by two building height sections. Note that this height limit is predicated on compliance with the senior housing bonus in Sec. 4.4.2 (d) 3 B. Although much larger than the single family homes it will replace, scale of the building is not dissimilar to that of the nearby Riverwatch Condos.

##### ***2. Roofs and Rooflines.***

A flat roof is proposed albeit in several different sections. Such roof form is common among similar structures and within this mixed use zone.

##### ***3. Building Openings***

Fenestration is patterned consistently throughout the building and is appropriate for this residential application. As noted above, street level storefront glazing is proposed along Riverside Avenue.

**(b) Protection of Important Architectural Resources:**

*Burlington's architectural and cultural heritage shall be protected through sensitive and respectful redevelopment, rehabilitation, and infill. Where the proposed development involves buildings listed or eligible for listing on a state or national register of historic places, the applicant shall meet the applicable development and design standards pursuant to Sec. 5.4.8. The introduction of new buildings to a historic district listed on a state or national register of historic places shall make every effort to be compatible with nearby historic buildings.*

As noted above, none of the single family homes to be removed are not historic. Much of the adjacent development is relatively new. The proposed structure will not adversely impact Burlington's wealth of historic resources.

**(c) Protection of Important Public Views:**

Not applicable.

**(d) Provide an active and inviting street edge:**

The proposed building will be set close to Riverside Avenue with a prominent front entry facing the street. Landscaping will soften the hard edge of exposed building foundation, and the embellished front entrance will invite pedestrians from the sidewalk into the building. Storefront glazing will afford visual access into the building from the public sidewalk.

**(e) Quality of materials:**

*All development shall maximize the use of highly durable building materials that extend the life cycle of the building, and reduce maintenance, waste, and environmental impacts. Such materials are particularly important in certain highly trafficked locations such as along major streets, sidewalks, loading areas, and driveways. Efforts to incorporate the use of recycled content materials and building materials and products that are extracted and/or manufactured within the region are highly encouraged.*

As is common with other recent residential buildings of similar scale, the building will be clad in cementitious siding (panel and lap) along with sections of corrugated metal siding and metal coping. Painted metal railing and fencing will provide accent and screening. Except for the aluminum storefront windows, most windows will be vinyl.

*Owners of historic structures are encouraged to consult with an architectural historian in order to determine the most appropriate repair, restoration or replacement of historic building materials as outlined by the requirements of Art 5, Sec. 5.4.8.*

Not applicable.

**(f) Reduce energy utilization:**

All new construction is required to meet the Guidelines for Energy Efficient Construction pursuant to the requirements of Article VI. Energy Conservation, Section 8 of the City of Burlington Code of Ordinances.



*New structures should take advantage of solar access where available, and shall undertake efforts to reduce the impacts of shadows cast on adjacent buildings where practicable, in order to provide opportunities for the use of active and passive solar utilization.*

No utilization of renewable energy is evident in the project plans. The building is set far enough from adjacent structures to avoid adverse shadow impacts.

**(g) Make advertising features complementary to the site:**

Some placeholder signage is depicted in the project plans and should be removed. All exterior signs are subject to separate zoning permit.

**(h) Integrate infrastructure into the building design:**

See Section 6.2.2. (p), above.

**(i) Make spaces secure and safe:**

Construction shall comply with all required building and life safety codes as determined by the building inspector and fire marshal.

*Building entrances/entry points shall be visible and adequately lit, and intercom systems for multi-family housing should be incorporated where possible, to maximize personal safety.*

Exterior entries will be illuminated as depicted in the outdoor lighting plan. Intercom systems are recommended to maximize personal safety.

**RECOMMENDED MOTION:**

Recommend approval and forward to the Development Review Board subject to the following conditions:

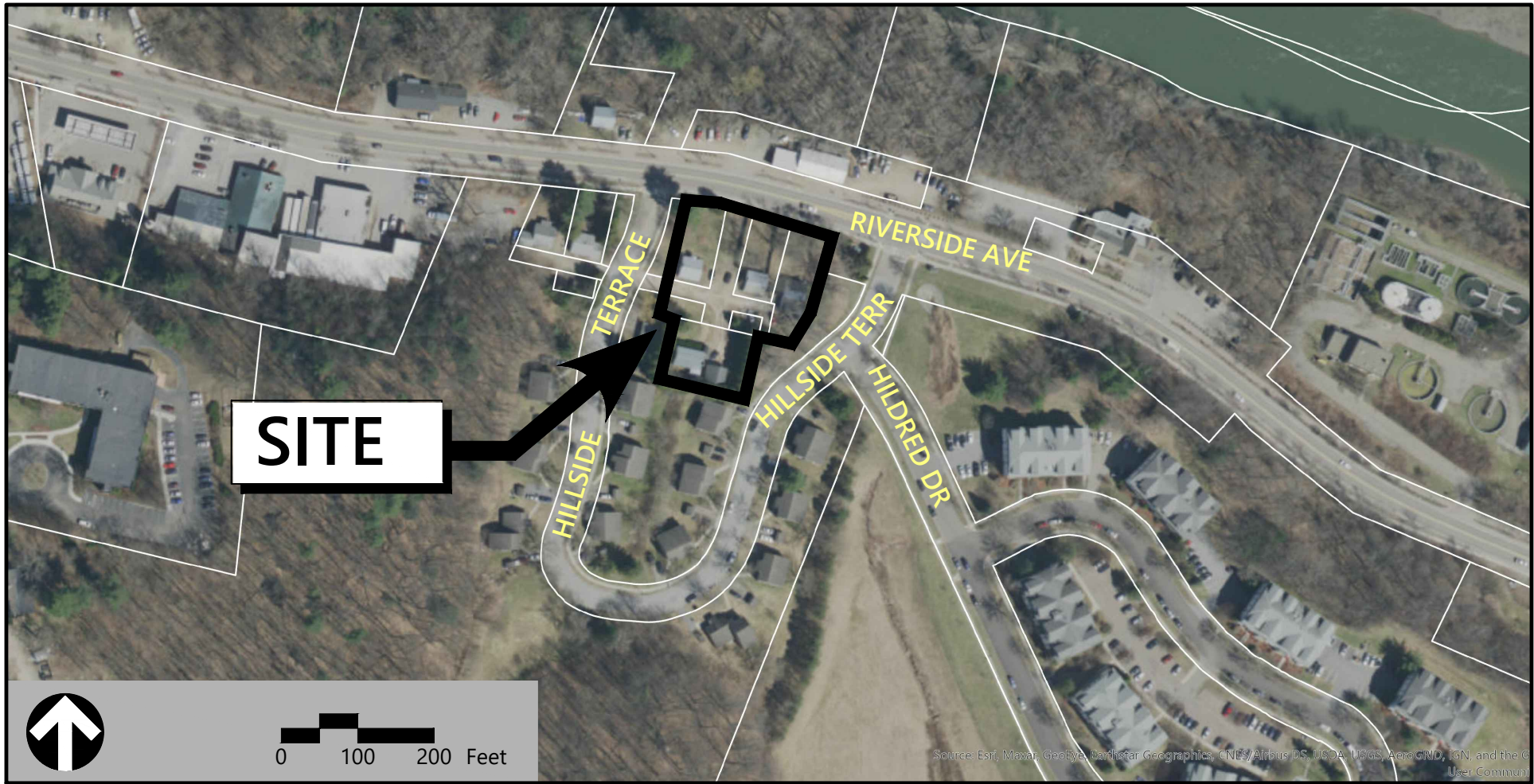
1. Provide confirmation as to onsite soil testing for potential contamination and results.
2. Demonstrate why a second, separate driveway is needed for service vehicle access. Otherwise, remove the second driveway and reconfigure service vehicle access.
3. Provide a fencing detail.
4. Revise parking lot lighting to levels compliant with Sec. 5.5.2.
5. Power lines serving the building must be buried and utility boxes must be screened.
6. Remove all outdoor signage from the project plans.

# Site Plans

|              |                           |
|--------------|---------------------------|
| Issued for   | Zoning Permit Application |
| Date Issued  | Sept. 8, 2020             |
| Latest Issue |                           |

## Blackrock Riverside Avenue Senior Apartments

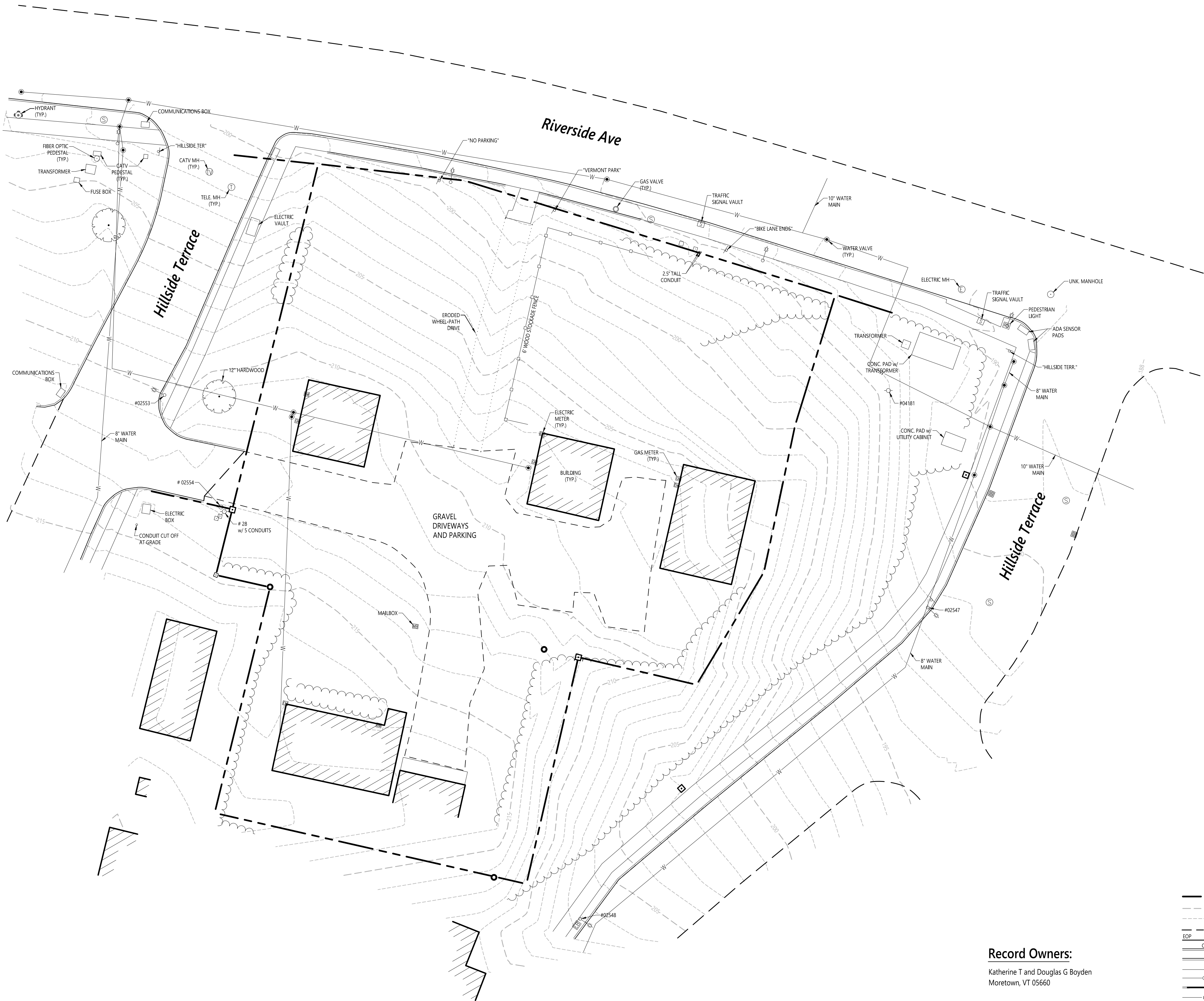
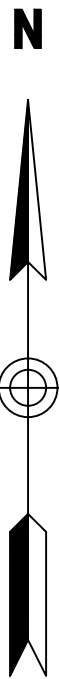
356 Riverside Avenue  
Burlington, Vermont



| Sheet Index |                                                 |                   |
|-------------|-------------------------------------------------|-------------------|
| No.         | Drawing Title                                   | Latest Issue      |
| C-1.10      | Existing Conditions Plan                        | September 8, 2020 |
| C-2.10      | Site Plan                                       | September 8, 2020 |
| C-3.10      | Grading and Drainage Plan                       | September 8, 2020 |
| C-4.10      | Utility Plan                                    | September 8, 2020 |
| C-4.20      | Utility Profiles                                | September 8, 2020 |
| C-5.10      | Erosion Prevention & Sediment Control Plan      | September 8, 2020 |
| C-6.10      | Site Details                                    | September 8, 2020 |
| C-6.20      | Stormwater Details                              | September 8, 2020 |
| C-6.30      | Erosion Prevention and Sediment Control Details | September 8, 2020 |
| C-6.40      | Water and Wastewater Details                    | September 8, 2020 |
| LA-1.00     | Overall Planting Plan                           | September 8, 2020 |
| LA-1.10     | Planting Plan                                   | September 8, 2020 |
| LA-1.20     | Planting Plan                                   | September 8, 2020 |
| LA-2.00     | Lighting Plan                                   | September 8, 2020 |
| SW-1.10     | Stormwater Management & Maintenance Plan        | September 8, 2020 |

| Reference Index |                                         |                |
|-----------------|-----------------------------------------|----------------|
| No.             | Drawing Title                           | Latest Issue   |
| D-1             | City of Burlington Water System Details | March 20, 2017 |





NOTE:  
THE LOCATIONS, SIZES, AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVE(S) HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, SERVICEABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS.

Record Owners:

Katherine T and Douglas G Boyden  
Moretown, VT 05660

SPAN: 11403514172 Parcel ID: 040-4-002-000  
SPAN: 11403514173 Parcel ID: 040-4-003-000  
SPAN: 11403514176 Parcel ID: 040-4-006-000  
SPAN: 11403514178 Parcel ID: 040-4-008-000

Legend:

- ① DRAIN MANHOLE
- ⌘ CATCH BASIN
- Ⓢ SEWER MANHOLE
- ⓔ ELECTRIC MANHOLE
- Ⓣ TELEPHONE MANHOLE
- MANHOLE
- HH □ HAND HOLE
- WATER GATE
- ⚡ FIRE HYDRANT
- GAS GATE
- STREET SIGN
- ☆ LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- PROPERTY LINE
- - - INDEX CONTOUR
- - - INTERVAL CONTOUR
- GRVEL
- EOP — EDGE OF PAVEMENT
- CC — CONCRETE CURB
- VGC — VERTICAL GRANITE CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- OVERHEAD WIRE
- WATER LINE
- TREE LINE

Blackrock  
Riverside Avenue  
Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Apprd. |
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| Issued for    | Date              |
| Zoning Permit | September 8, 2020 |

Not Approved for Construction

Existing Conditions  
Plan

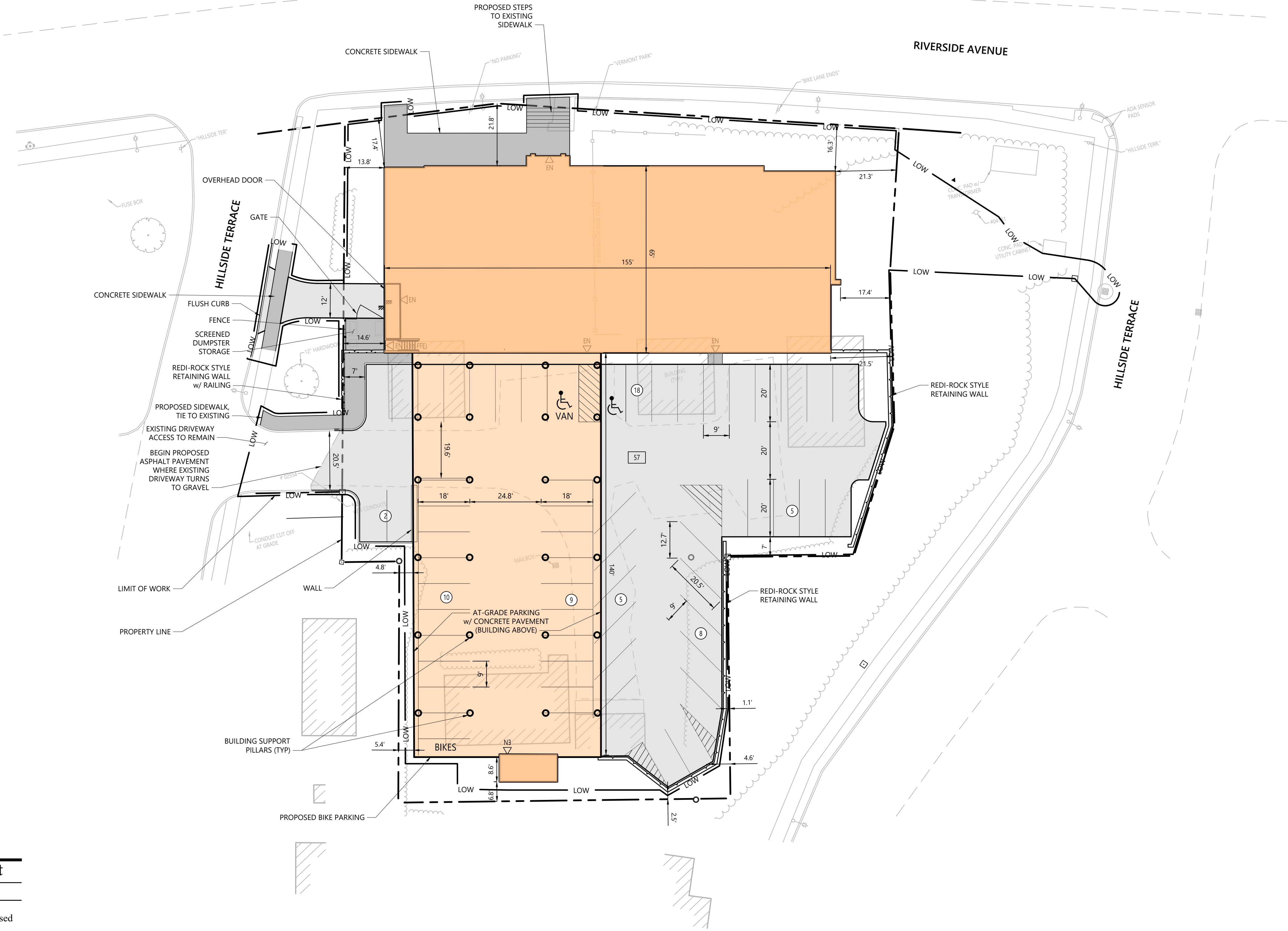
Drawing Number

C-1.10

Sheet 2 of 16

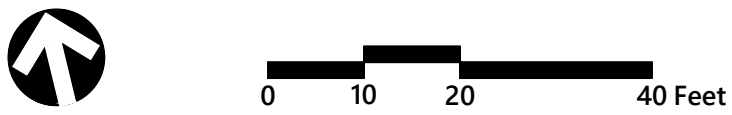
Project Number  
58036.00





| Parking Summary Chart          |          |          |
|--------------------------------|----------|----------|
| Description                    | Spaces   |          |
|                                | Existing | Proposed |
| PARKING SPACES                 | N/A      | 55       |
| STANDARD ACCESSIBLE SPACES     | N/A      | 1        |
| STANDARD ACCESSIBLE VAN SPACES | N/A      | 1        |
| TOTAL SPACES                   | N/A      | 57       |

| Zoning Summary Chart           |                                          |          |           |
|--------------------------------|------------------------------------------|----------|-----------|
| Zoning District(S):            | Neighborhood Activity Center - Riverside |          |           |
| Overlay District(S):           | Design Review                            |          |           |
| Zoning Regulation Requirements | Existing                                 | Required | Proposed  |
| LOT AREA                       | 38,882 SF                                | N/A      | 38,882 SF |
| LOT COVERAGE                   | 29.6%                                    |          | 79.8%     |



Blackrock  
Riverside Avenue  
Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Apprv. |
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| Designed by   | Checked by        |
| Issued for    | Date              |
| Zoning Permit | September 8, 2020 |

Not Approved for Construction

Drawing Title

Site Plan

Drawing Number

C-2.10

Sheet 3 of 16

Project Number  
58036.00

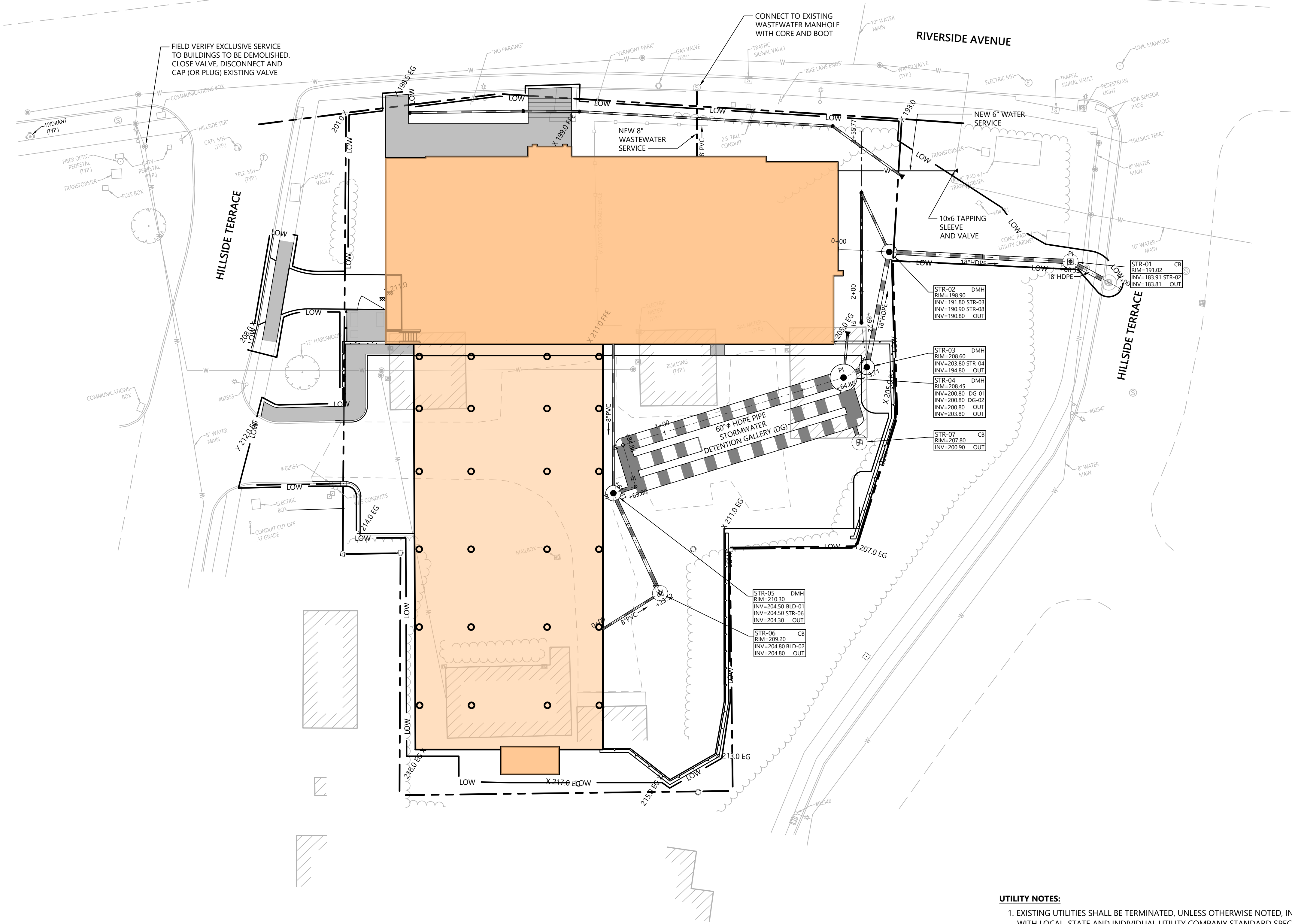








40 IDX Dr  
Building 100 Suite 200  
South Burlington, VT 05403  
802.497.6100



- UTILITY NOTES:**
1. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
  2. ALL WATER AND WASTEWATER WORK SHALL CONFORM WITH THE PROJECT SPECIFIC WATER AND WASTEWATER PERMIT ISSUED BY THE VERMONT DEPARTMENT OF CONSERVATION (VTDEC), VTDEC WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES (EPR CHAPT. 1, "WATER/WASTEWATER RULES"), VTDEC WATER SUPPLY RULE (EPR CHAPT 21), AND FOR WORK WITHIN 10 FEET OF THE BUILDING (OR AS APPLICABLE) THE VERMONT PLUMBING CODE, LATEST EDITIONS.



**Blackrock  
Riverside Avenue  
Senior Apartments**  
356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Appr'd. |
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| Designed by   | Checked by        |
| Issued for    | Date              |
| Zoning Permit | September 8, 2020 |

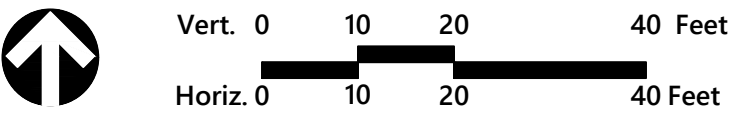
Not Approved for Construction  
Drawing Title  
**Utility Plan**  
Drawing Number

**C4.10**

Sheet 5 of 16

Project Number  
58036.00





Not Approved for Construction

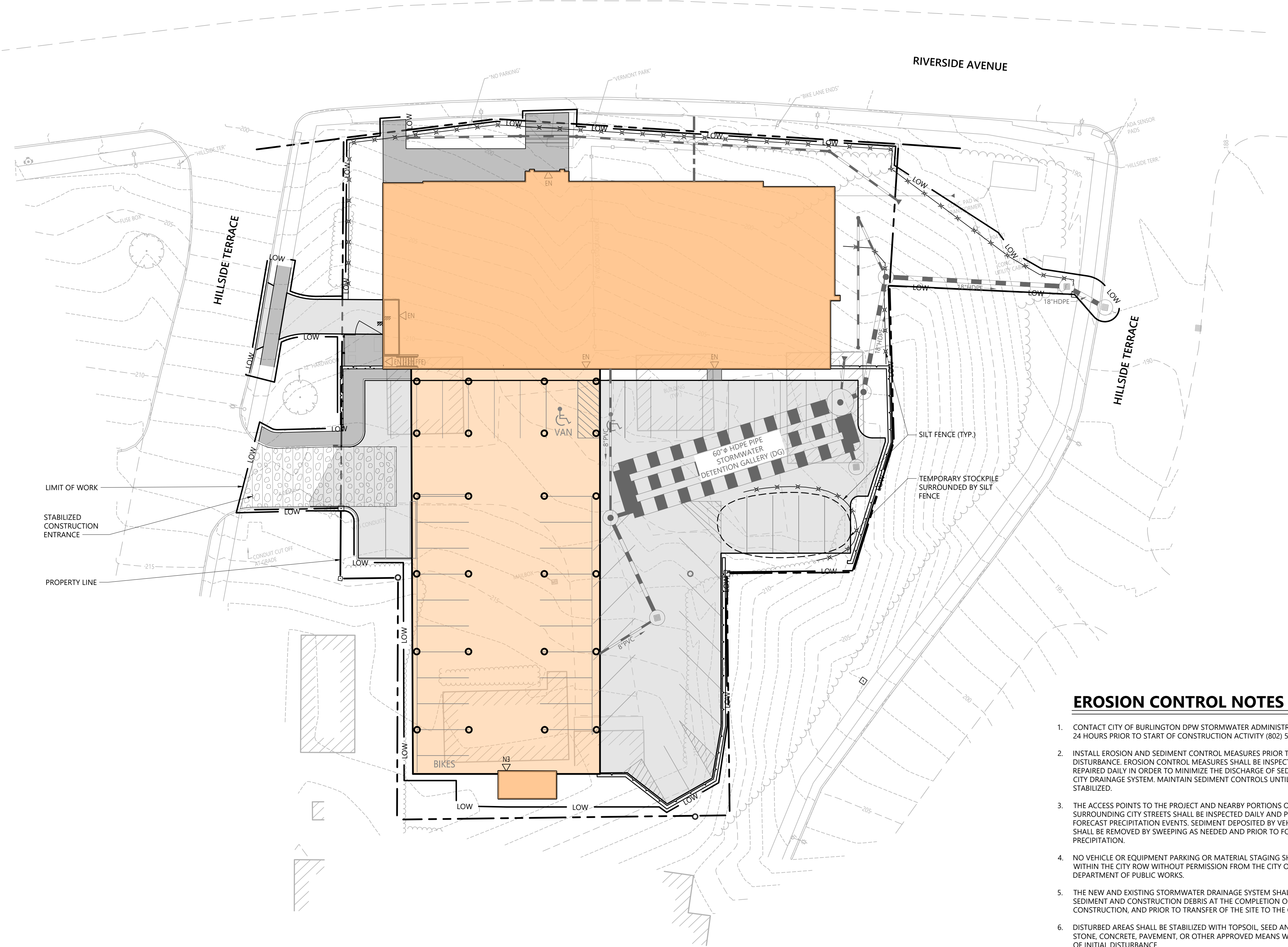
Drawing Title

# Utility Profiles

**UTILITY NOTES:**

1. EXISTING UTILITIES SHALL BE TERMINATED, UNLESS OTHERWISE NOTED, IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. THE CONTRACTOR SHALL COORDINATE UTILITY SERVICE DISCONNECTS WITH THE UTILITY REPRESENTATIVES.
2. ALL WATER AND WASTEWATER WORK SHALL CONFORM WITH THE PROJECT SPECIFIC WATER AND WASTEWATER PERMIT ISSUED BY THE VERMONT DEPARTMENT OF CONSERVATION (VTDEC). VTDEC WASTEWATER SYSTEM AND POTABLE WATER SUPPLY RULES (EPR CHAPT. 1, "WATER/WASTEWATER RULES"), VTDEC WATER SUPPLY RULE (EPR CHAPT 21), AND FOR WORK WITHIN 10 FEET OF THE BUILDING (OR AS APPLICABLE) THE VERMONT PLUMBING CODE, LATEST EDITIONS.





EROSION CONTROL NOTES

1. CONTACT CITY OF BURLINGTON DPW STORMWATER ADMINISTRATOR AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION ACTIVITY (802) 540-1748.
2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO EARTH DISTURBANCE. EROSION CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED DAILY IN ORDER TO MINIMIZE THE DISCHARGE OF SEDIMENT TO THE CITY DRAINAGE SYSTEM. MAINTAIN SEDIMENT CONTROLS UNTIL SITE IS FULLY STABILIZED.
3. THE ACCESS POINTS TO THE PROJECT AND NEARBY PORTIONS OF SURROUNDING CITY STREETS SHALL BE INSPECTED DAILY AND PRIOR TO FORECAST PRECIPITATION EVENTS. SEDIMENT DEPOSITED BY VEHICLE TRACKING SHALL BE REMOVED BY SWEEPING AS NEEDED AND PRIOR TO FORECAST PRECIPITATION.
4. NO VEHICLE OR EQUIPMENT PARKING OR MATERIAL STAGING SHALL OCCUR WITHIN THE CITY ROW WITHOUT PERMISSION FROM THE CITY OF BURLINGTON DEPARTMENT OF PUBLIC WORKS.
5. THE NEW AND EXISTING STORMWATER DRAINAGE SYSTEM SHALL BE FREE FROM SEDIMENT AND CONSTRUCTION DEBRIS AT THE COMPLETION OF CONSTRUCTION, AND PRIOR TO TRANSFER OF THE SITE TO THE OWNER.
6. DISTURBED AREAS SHALL BE STABILIZED WITH TOPSOIL, SEED AND MULCH, STONE, CONCRETE, PAVEMENT, OR OTHER APPROVED MEANS WITHIN 14 DAYS OF INITIAL DISTURBANCE.
7. SILT FENCE OR OTHER APPROVED SILT BARRIER SHALL BE INSTALLED AT THE DOWNSLOPE PERIMETER OF ALL SOILS STOCKPILES.
8. THE CONTRACTOR SHALL TAKE ALL REASONABLE MEANS NECESSARY TO KEEP THE NEW STORMWATER SYSTEM FREE OF SEDIMENT AND DEBRIS DURING THE CONSTRUCTION PERIOD. DO NOT ALLOW RUNOFF FROM DISTURBED AREAS TO DRAIN THESE FEATURES UNTIL THEY HAVE RECEIVED FINAL STABILIZATION.

Blackrock  
Riverside Avenue  
Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Appvd. |
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| Designed by   | Checked by        |
| Issued for    | Date              |
| Zoning Permit | September 8, 2020 |

Not Approved for Construction

Erosion Prevention and  
Sediment Control Plan

Drawing Number

C6.10

Sheet 7 of 16

Project Number  
58036.00

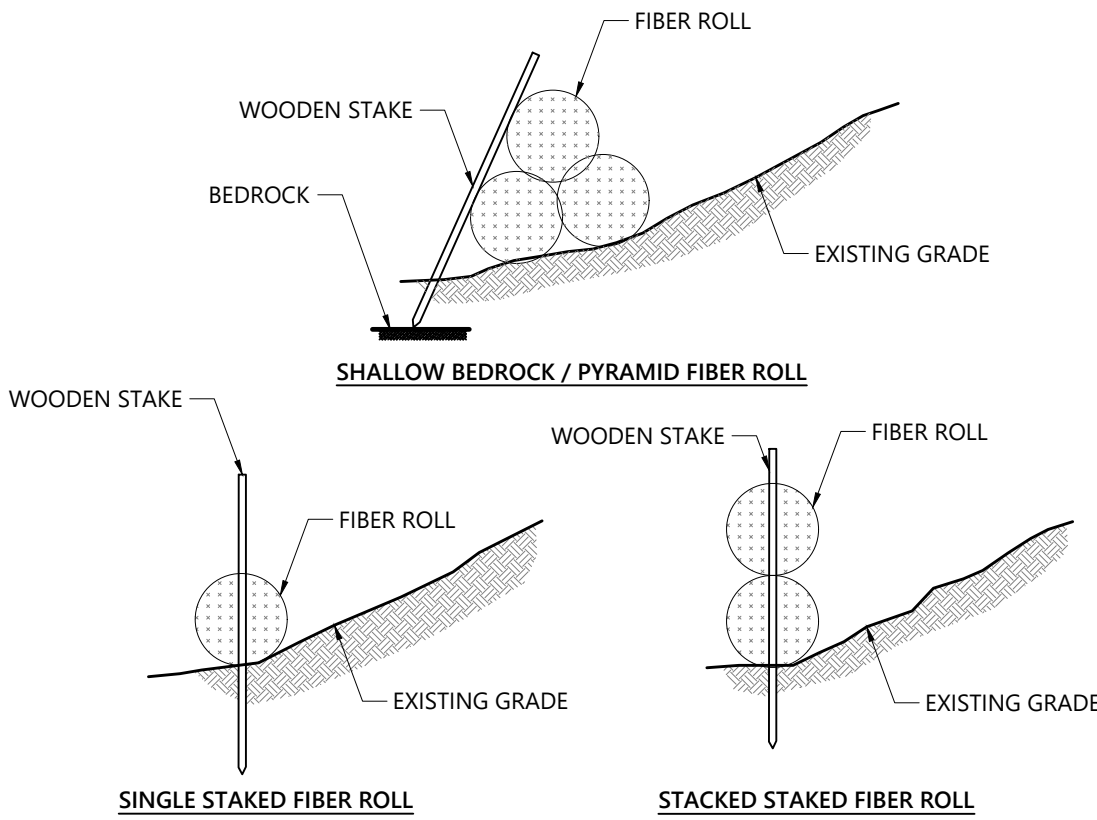












NOTES

1. FIBER ROLL SHALL BE PLACED IN SHALLOW TRENCH UP TO 4", WHERE FEASIBLE, PLACING SOIL REMOVED FROM TRENCH BEHIND THE ROLL.
2. FIBER ROLLS SHALL BE ANCHORED WITH 2" BY 2" WOODEN STAKES (36" LONG), OR SIMILAR, WHERE FEASIBLE, EITHER INSTALLED THROUGH CENTER OF ROLL (AS SHOWN) OR PLACED ON BOTH SIDES OF ROLL.
3. STAKES TO BE PLACED 4 FT APART, MINIMUM.
4. SINGLE OR DOUBLE STACKED STAKED FIBER ROLLS TO BE INSTALLED WHERE SOIL DEPTH ALLOWS. WHERE SHALLOW TO BEDROCK, PYRAMID FIBER ROLLS TO BE UTILIZED WITH STAKES, AS FEASIBLE.
5. FIBER ROLLS TO BE REPLACED OR REPLENISHED AS NEEDED DURING ACTIVE EARTH WORK.
6. PERIMETER CONTROLS SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G., ROADS) OR ACTIVE FLOW PATHS (E.G., STREAMS/RIVERS).
7. PERIMETER CONTROLS SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN AREA HAS BEEN ACHIEVED.

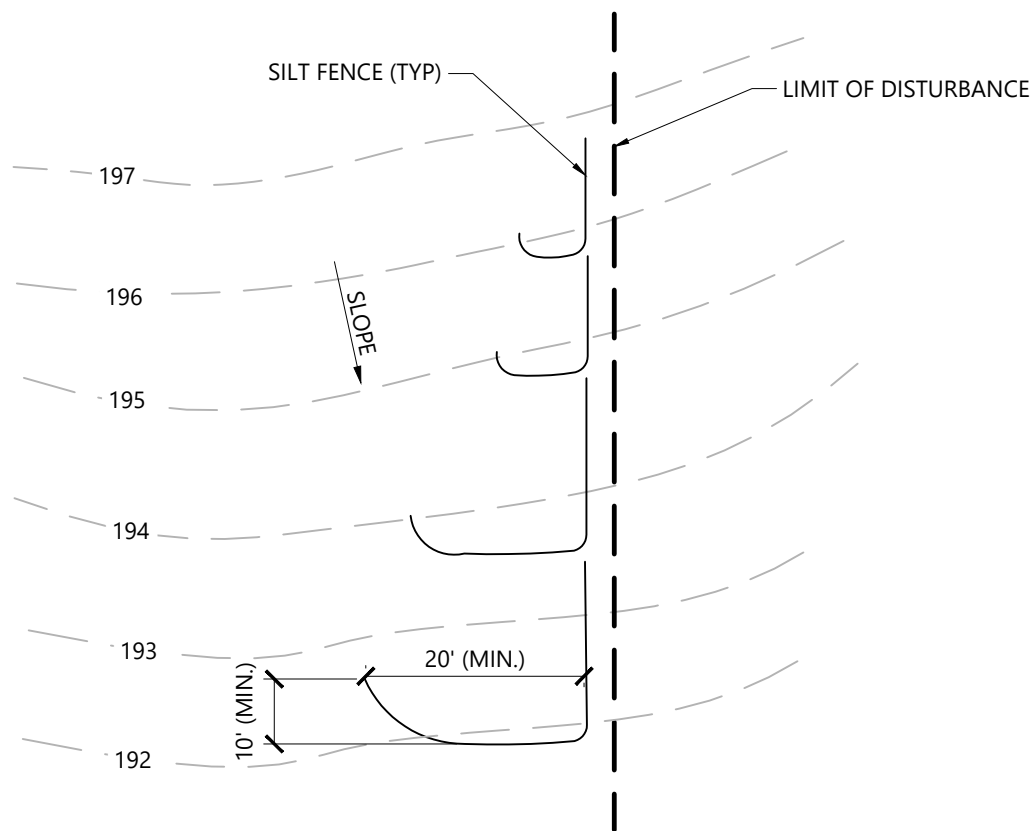
Staked Fiber Roll

N.T.S.

Source: VHB

08/16

LD\_VT



NOTES

1. SILT FENCE SHALL BE INSTALLED IN SHORTER RUNS WITH "J-HOOKS" TO AVOID CONCENTRATION OF FLOWS AT ONE LOCATION BY TRAPPING RUNOFF AT MULTIPLE POINTS ALONG A SLOPE.
2. MINIMUM WIDTH OF J-HOOK RECOMMENDED AT 20 FT WITH A DEPTH OF 10 FT. WHERE SPACE IS LIMITED (E.G., ALONG NARROW RIGHTS OF WAY), NARROWER HOOKS CAN BE USED WITH A HIGHER SPACING FREQUENCY.
3. START DOWN-GRADIENT SILT FENCE LINE AS CLOSE AS POSSIBLE TO UP-GRADIENT J-HOOK.

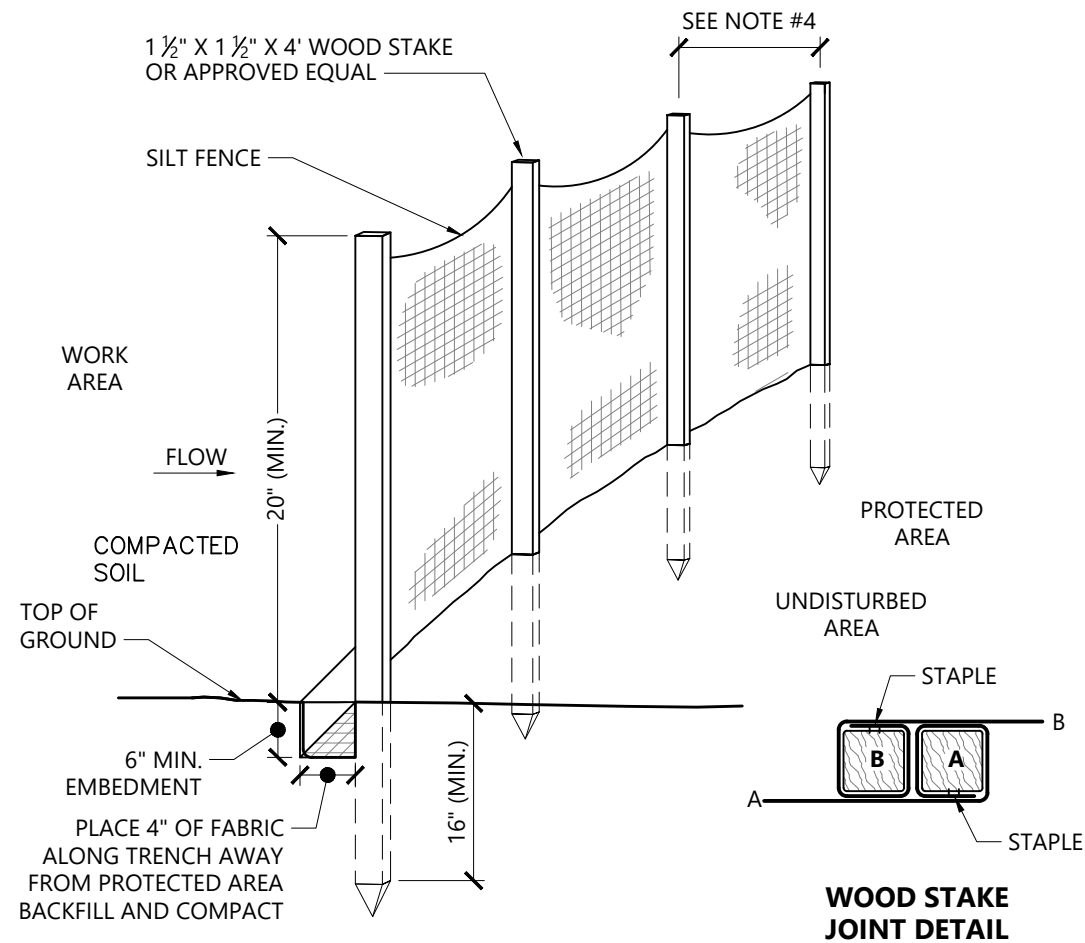
Installation of "J-Hooks" on Slopes

N.T.S.

Source: VHB

08/16

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NOTES

1. WOVEN WIRE FENCE REINFORCEMENT IS REQUIRED WITHIN 50 FT UPSLOPE OF RECEIVING WATERS.
2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MESH OPENING SHALL BE USED.
3. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUIVALENT.
4. POST SPACING FOR WIRE BACKED FENCE SHALL BE 10 FT. MAX. FOR FILTER CLOTH FENCE WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4 FT. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6 FT.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6 INCHES AND FOLDED.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUIVALENT.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.
8. SILT FENCE SHALL NOT BE USED TO DEMARCAT E LIMITS OF DISTURBANCE.

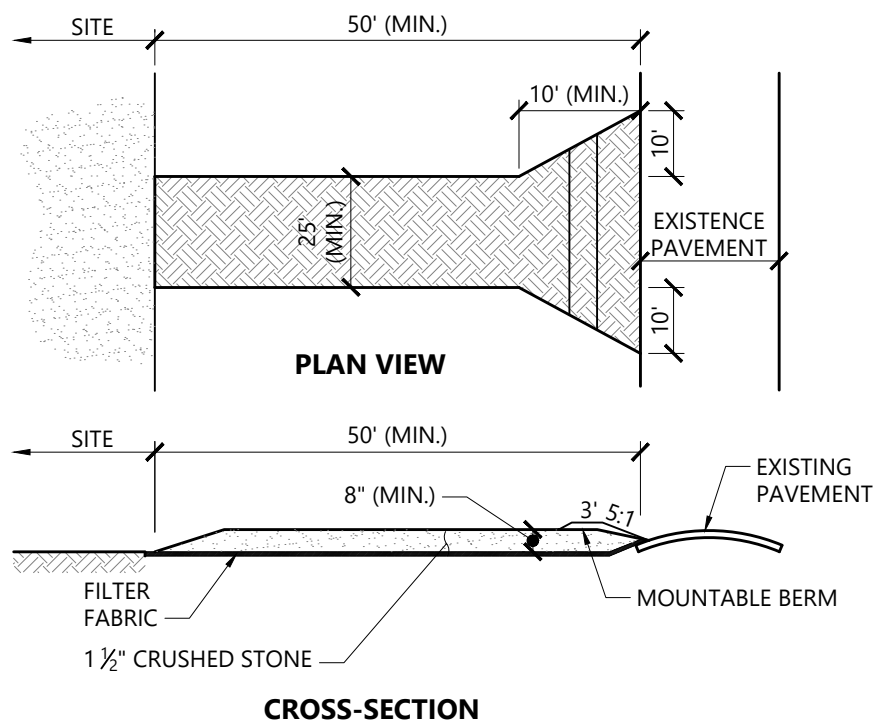
Silt Fence/ Reinforced Silt Fence Barrier

N.T.S.

Source: VHB

08/16

LD\_650-VT



NOTES

1. AGGREGATE SIZE: USE A MATRIX OF 1 TO 4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH: NOT LESS THAN 50 FEET (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH APPLIES)
3. THICKNESS: NOT LESS THAN EIGHT (8) INCHES
4. WIDTH: TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT MINIMUM IF THERE IS ONLY ONE ACCESS TO THE SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EXITS SHALL BE PIPED BENEATH THE EXIT. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

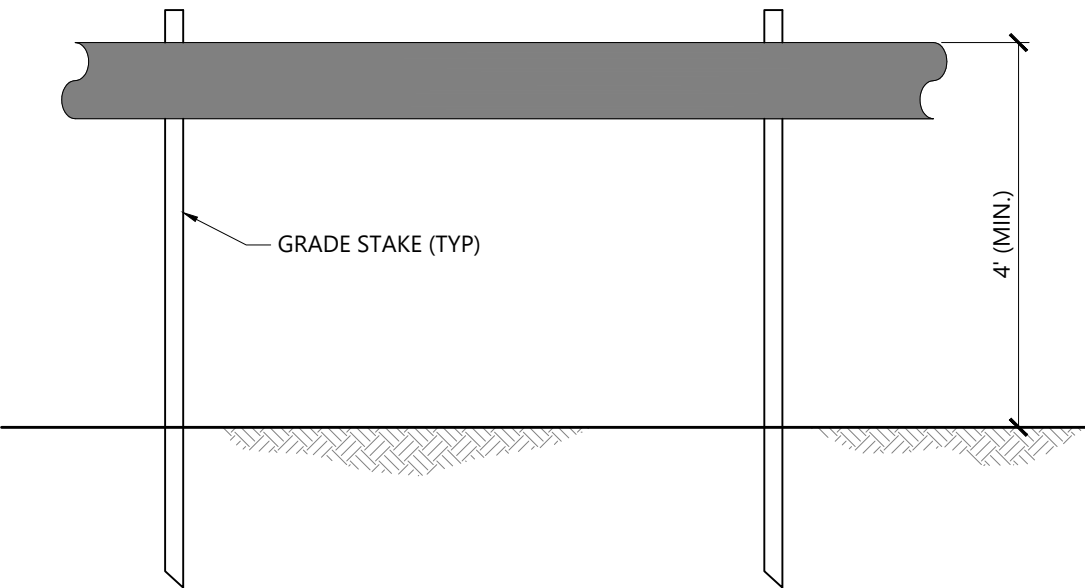
Stabilized Construction Exit

N.T.S.

Source: VHB

1/16

LD\_682-VT



NOTES

1. BARRIER MESH TAPE OR ROPE SHALL BE INSTALLED ALONG THE PERIMETER OF THE PROJECT AREA TO DEMARCAT E THE LIMIT OF DISTURBANCE. NO EARTHWORK OR STORAGE OF MATERIALS SHALL BE CONDUCTED BEYOND THIS LIMIT WITHOUT PRIOR APPROVAL FROM THE OSPC.
2. USE 3" ORANGE BARRIER MESH TAPE OR 1/2" YELLOW POLYPROPYLENE ROPE.
3. WITHIN 50' OF WATER RESOURCE AREAS, USE 2-3 ROWS OF TAPE OR ROPE. BEYOND 50' OF WATER RESOURCE AREAS USE 1 ROW OF TAPE OR ROPE.
4. TAPE OR ROPE MAY BE FASTENED TO STAKES, TREES, OR OTHER APPROPRIATE FIXED OBJECTS.
5. PROJECT DEMARCAT ION SHALL NOT CROSS ACTIVE ACCESS ROUTES (E.G. ROADS). PROJECT DEMARCAT ION MAY CROSS RESOURCES AREAS WITH EXCEPTION OF LARGER WATER BODIES WHERE IT IS NOT FEASIBLE OR ADVISABLE.
6. PROJECT DEMARCAT ION SHALL REMAIN IN PLACE AND BE MAINTAINED/REPLACED AS NEEDED UNTIL FINAL STABILIZATION IN THE AREA HAS BEEN ACHIEVED.

Barrier Mesh Tape or Rope

N.T.S.

Source: VHB

08/16

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vhb.com

40 IDX Dr  
Building 100 Suite 200  
South Burlington, VT 05403  
802.497.6100

Blackrock  
Riverside Avenue  
Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Apprd. |
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| Designed by | TAZ/CHS | Checked by | JRZ |
| Issued for  |         | Date       |     |

Zoning Permit September 8, 2020

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Drawing Title

Erosion Prevention and  
Sediment Control  
Details

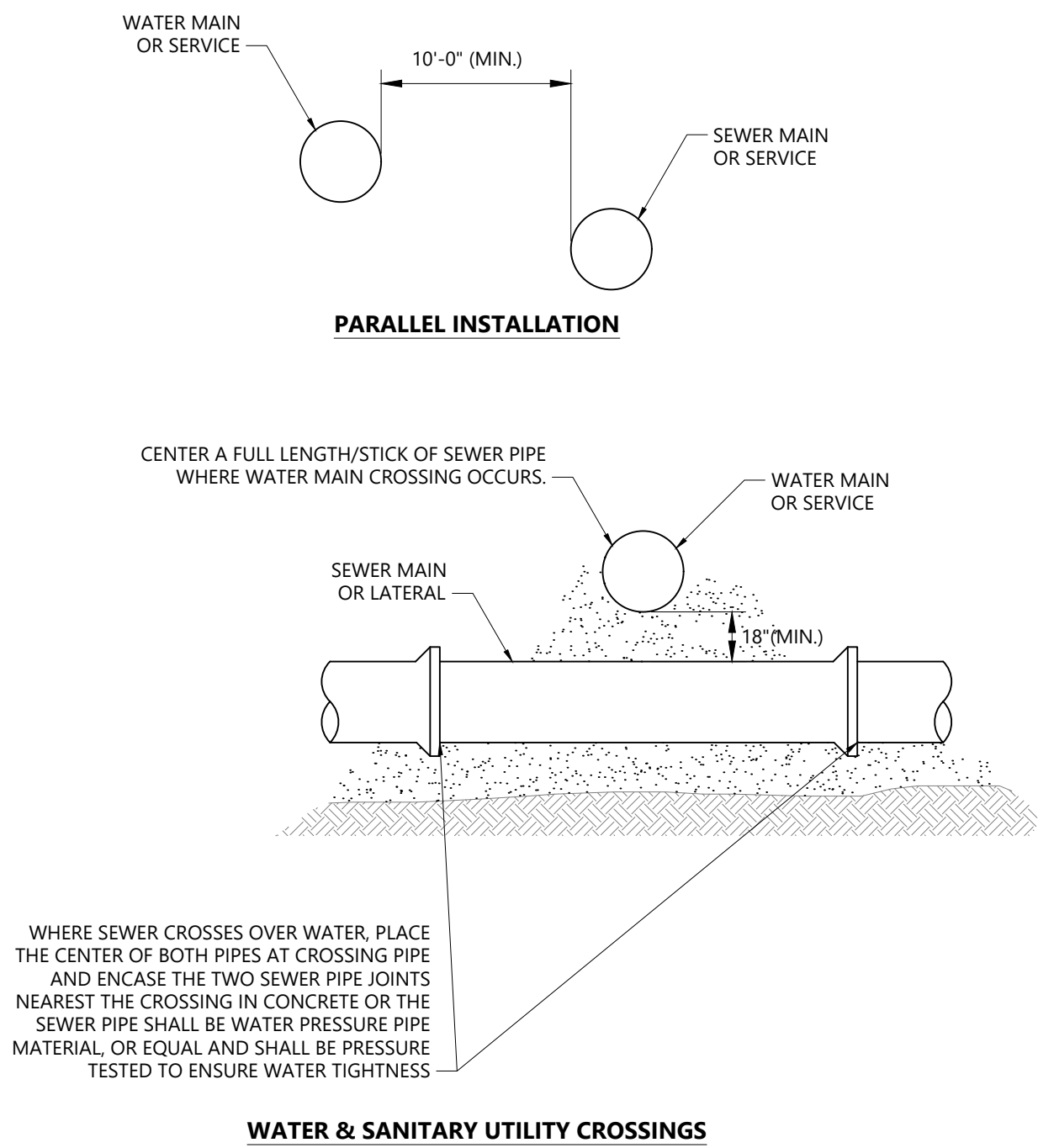
Drawing Number

C-6.30

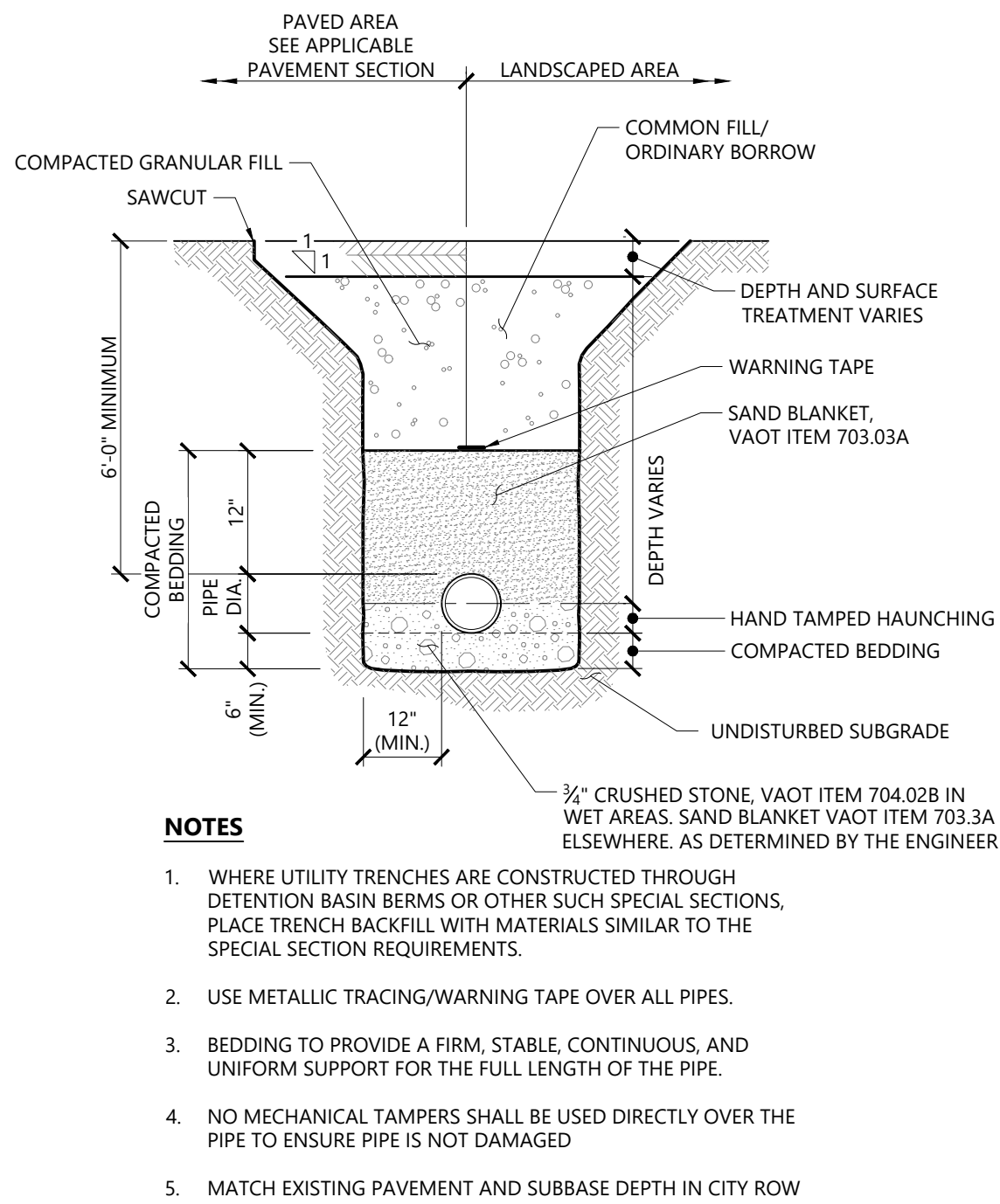
Sheet 10 of 16

Project Number  
58036.00

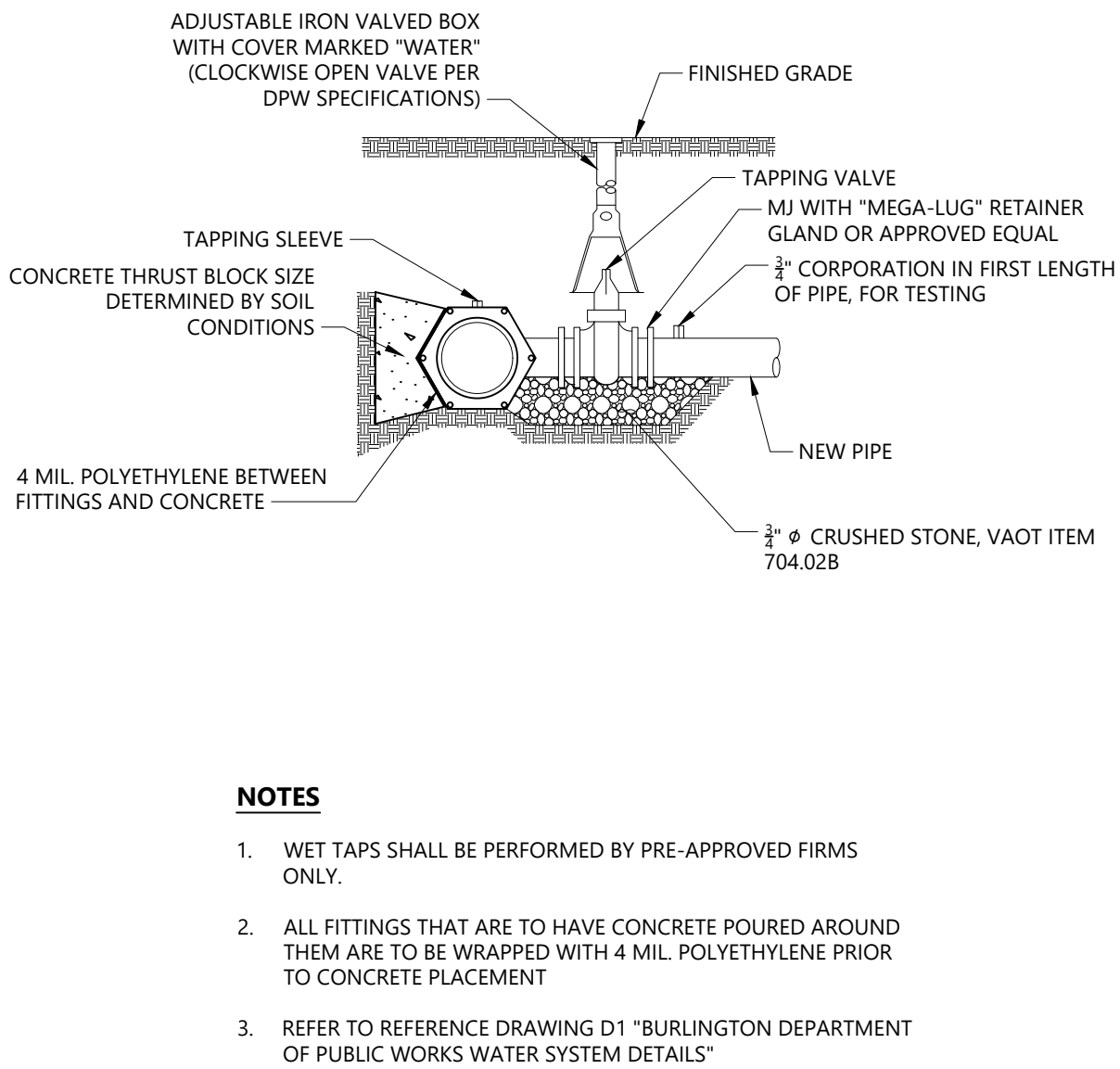




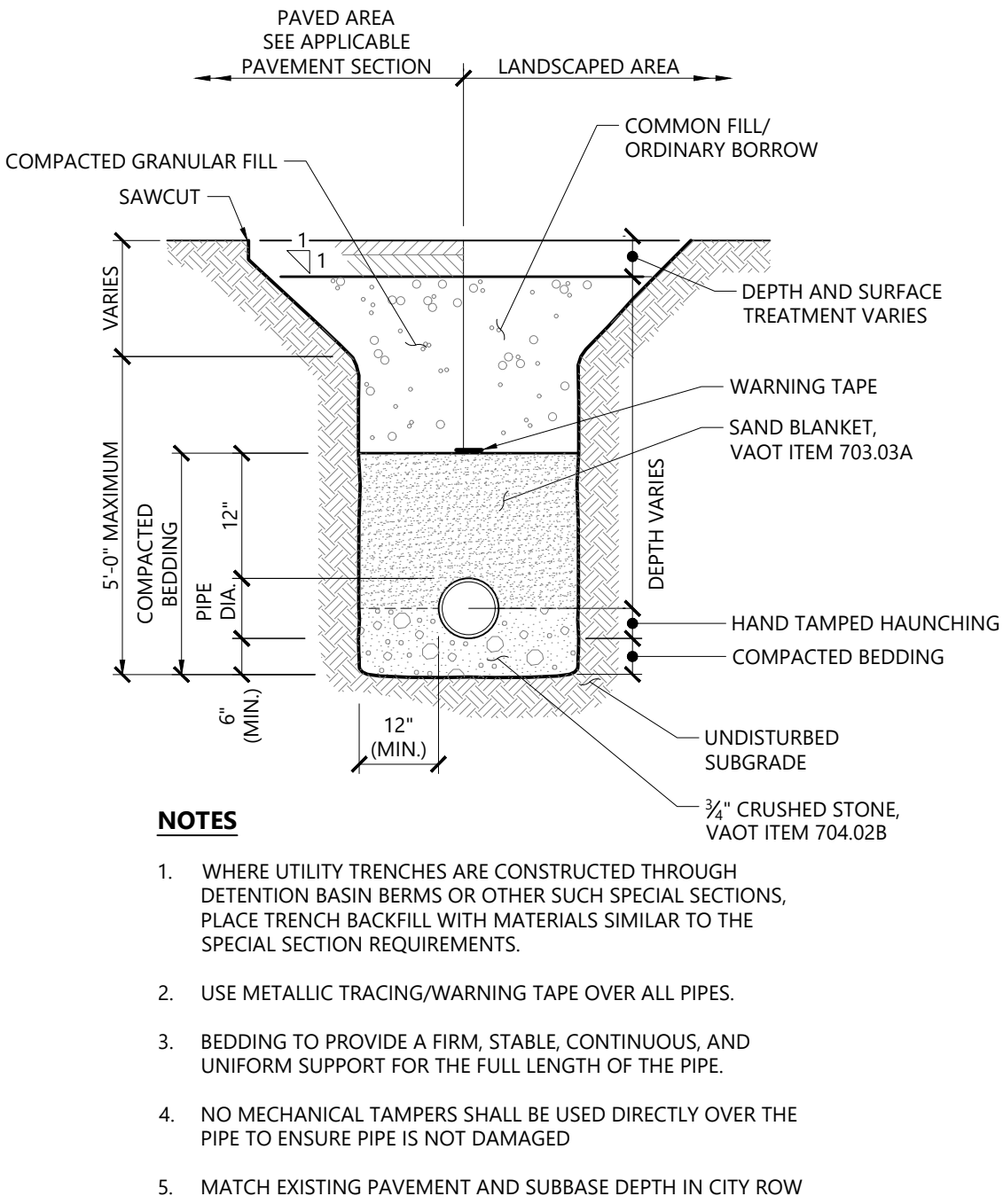
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| <b>Water/Sewer Separation</b> |             | 1/16 |
| N.T.S.                        | Source: VHB | LD   |



|                         |             |      |
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| <b>Waterline Trench</b> |             | 1/16 |
| N.T.S.                  | Source: VHB | LD_  |



**Typical Tapping Sleeve and Valve Detail** 2/18  
 N.T.S. Source: VHB REV LD\_



|                         |             |      |
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| <b>Sewerline Trench</b> |             | 1/16 |
| N.T.S.                  | Source: VHB | LD_  |



# Blackrock Riverside Avenue Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Appvd. |
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| Issued for           | Date                     |
| <b>Zoning Permit</b> | <b>September 8, 2020</b> |

**Not Approved for Construction**

# Water and Wastewater Details

Drawing Number

# C-6.40

Sheet 11 of 16

Project Number  
**58036.00**



Tree Protection

1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY CONSTRUCTION FENCE. ERECT FENCE AT EDGE OF THE TREE DRIPLINE PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
3. DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.

Planting Notes

1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL BELOW GRADE AND ABOVE GROUND UTILITIES AND NOTIFY OWNERS REPRESENTATIVE OF CONFLICTS.
3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY CONFLICT.
4. A 3-INCH DEEP MULCH PER SPECIFICATION SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR SPECIFICATION, OR APPROVED BY THE OWNER'S REPRESENTATIVE.
6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS GRAPHICALLY SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLANT LIST AND PLANT LABELS PRIOR TO BIDDING.
7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE REVIEWED BY LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
8. ALL PLANT MATERIALS INSTALLED SHALL MEET THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND CONTRACT DOCUMENTS.
9. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
10. AREAS DESIGNATED "LOAM & SEED" SHALL RECEIVE MINIMUM 6" OF LOAM AND SPECIFIED SEED MIX. LAWNS OVER 2:1 SLOPE SHALL BE PROTECTED WITH EROSION CONTROL FABRIC.
11. ALL DISTURBED AREAS NOT OTHERWISE NOTED ON CONTRACT DOCUMENTS SHALL BE LOAM AND SEEDED OR MULCHED AS DIRECTED BY OWNER'S REPRESENTATIVE.
12. THIS PLAN IS INTENDED FOR PLANTING PURPOSES. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

Plant Maintenance Notes

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE LAWNS AND PLANTINGS. NO IRRIGATION IS PROPOSED FOR THIS SITE. THE CONTRACTOR SHALL SUPPLY SUPPLEMENTAL WATERING FOR NEW LAWNS AND PLANTINGS DURING THE ONE YEAR PLANT GUARANTEE PERIOD.
2. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. WATER SHALL BE PROVIDED BY THE CONTRACTOR.
3. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS AT THE END OF THE ONE YEAR GUARANTEE PERIOD. CONTRACTOR SHALL TURN OVER MAINTENANCE TO THE FACILITY MAINTENANCE STAFF AT THAT TIME.



Blackrock

Riverside Avenue

Senior Apartments

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Appvd. |
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| Designed by | MW | Checked by | MW |
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Zoning PermitSeptember 8, 2020

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Drawing Title

Overall Planting Plan

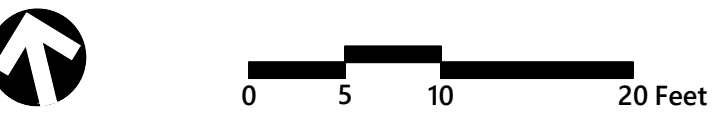
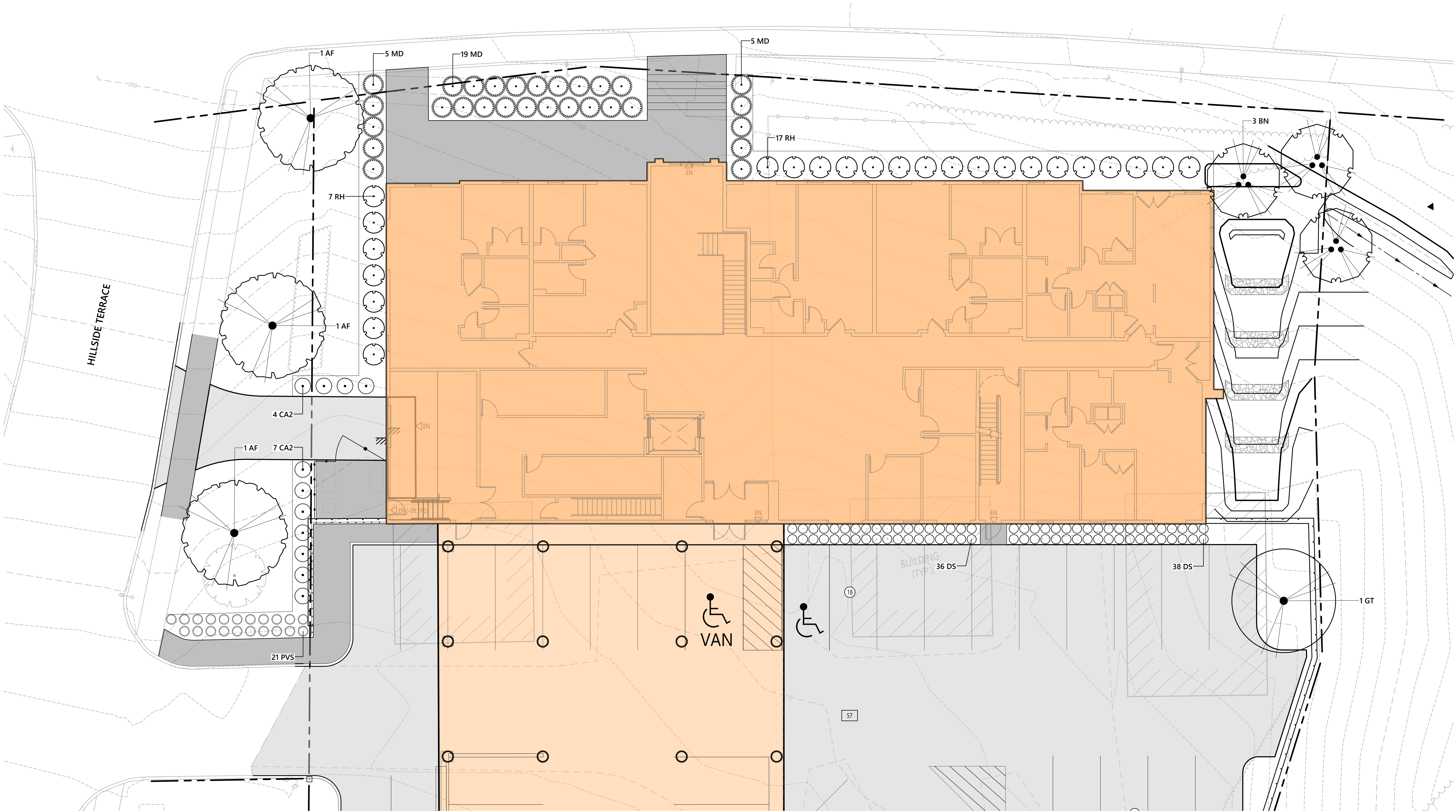
Drawing Number

LA-1.00

Sheet 12 of 16

Project Number  
58036.00





**Blackrock  
Riverside Avenue  
Senior Apartments**

356 Riverside Ave  
Burlington, Vermont

| No. | Revision | Date | Appr'd. |
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| Designed by | MW            | Checked by | MW                |
| Issued for  | Zoning Permit | Date       | September 8, 2020 |

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Drawing Title

**Planting Plan**

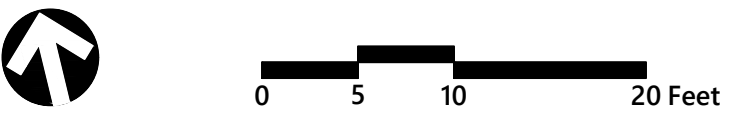
Drawing Number

**LA-1.10**

Sheet 13 of 16

Project Number  
58036.00





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| <b>Zoning Permit</b>     | <b>September 8, 2020</b> |

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Drawing Title

Planting Plan

Drawing Number

# LA-1.20

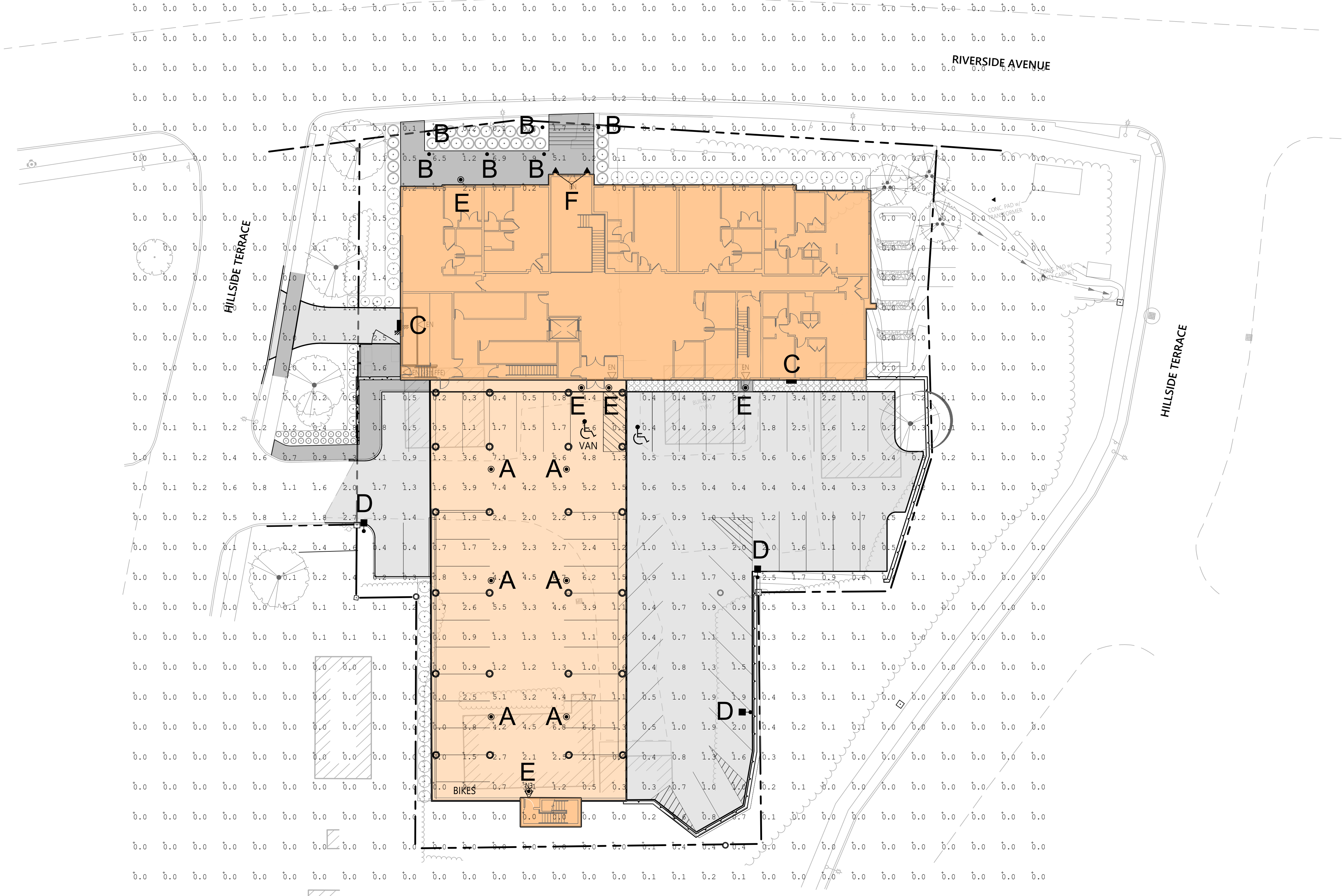
Sheet 14 of 16

Project Number  
**58036.00**





40 IDX Dr  
Building 100 Suite 200  
South Burlington, VT 05403  
802.497.6100



LIGHT FIXTURE SPECIFICATIONS

| <div>Fixture A</div> <div>Manufacturer: Beacon Lighting</div> <div>Fixture: SRT1 EDGE-LIT</div> <div>Color: Black</div> <div>LED: 35watt - 5QW</div> <div>LED Color: 3,000k</div> <div>Voltage: 120v (verify with electrical engineer)</div> | <div>Fixture B</div> <div>Manufacturer: KIM Lighting</div> <div>Fixture: Compact Bollard - CB32 LED</div> <div>Color: Black</div> <div>LED: 10w</div> <div>LED Color: 3,000k</div> <div>Voltage: 120v (verify with electrical engineer)</div> | <div>Fixture C</div> <div>Manufacturer: Beacon Lighting Products</div> <div>Fixture: Traverse Wall Light TRV-D</div> <div>Color: Black</div> <div>LED: 27watt - Type 3</div> <div>LED Color: 3,000k</div> <div>Voltage: 120v (verify with electrical engineer)</div> <div>Mounting: 12 Feet</div>                                                                                                                                      | <div>Fixture D</div> <div>Manufacturer: Beacon Lighting Products</div> <div>Fixture: Viper S</div> <div>Color: Black</div> <div>LED: 39watt - Type 3</div> <div>LED Color: 3,000k</div> <div>Voltage: 120v (verify with electrical engineer)</div> <div>Pole: 16 Feet</div> |                  |         |         |     |     |         |         |   |                             |      |      |      |      |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|---------|-----|-----|---------|---------|---|-----------------------------|------|------|------|------|-------|
| <div>Fixture E</div> <div>Manufacturer: Philips Lightolier</div> <div>Fixture: SlimSurface LED - S5R (5inch)</div> <div>Color: Black</div> <div>LED: 650Lumen - 3,000k</div> <div>Voltage: 120v (verify with electrical engineer)</div>      | <div>Fixture F</div> <div>Manufacturer: Kichler Lighting</div> <div>Fixture: Manhattan 22" Wall Light</div> <div>Color: Black</div> <div>LED Color: 3000k</div> <div>Voltage: 120v (verify with electrical engineer)</div>                    | <div>STATISTICAL AREA SUMMARY</div> <div><div>Grid Type: Horizontal Illuminance at finish grade.</div><div>Grid Units: Footcandles</div><table><thead><tr><th colspan="2">Statistical Area</th><th>Avg</th><th>Max</th><th>Min</th><th>Avg/Min</th><th>Max/Min</th></tr></thead><tbody><tr><td>1</td><td>Parking Lot and Entry Drive</td><td>1.73</td><td>7.40</td><td>0.20</td><td>8.65</td><td>37.00</td></tr></tbody></table></div> |                                                                                                                                                                                                                                                                             | Statistical Area |         | Avg     | Max | Min | Avg/Min | Max/Min | 1 | Parking Lot and Entry Drive | 1.73 | 7.40 | 0.20 | 8.65 | 37.00 |
| Statistical Area                                                                                                                                                                                                                             |                                                                                                                                                                                                                                               | Avg                                                                                                                                                                                                                                                                                                                                                                                                                                    | Max                                                                                                                                                                                                                                                                         | Min              | Avg/Min | Max/Min |     |     |         |         |   |                             |      |      |      |      |       |
| 1                                                                                                                                                                                                                                            | Parking Lot and Entry Drive                                                                                                                                                                                                                   | 1.73                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7.40                                                                                                                                                                                                                                                                        | 0.20             | 8.65    | 37.00   |     |     |         |         |   |                             |      |      |      |      |       |

Disclaimer:  
This analysis was calculated in accordance with published IES calculation methods and procedures with the data as entered by the user. This analysis is based on tested IES photometric data, light loss factors as defined in the LLF value. This analysis is a mathematical model of real life situations, and it can be only as accurate as the model itself. Calculated values may vary from actual measurements in certain situations. VHB is not responsible for light output deviations due to light fixture or ballast combinations or other variables.



Blackrock  
Riverside Avenue  
Senior Apartments

356 Riverside Ave  
Burlington, Vermont

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| Issued for  | Zoning Permit | Date       | September 8, 2020 |

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Drawing Title

Lighting Plan

Drawing Number

LA-2.00

Sheet 15 of 16

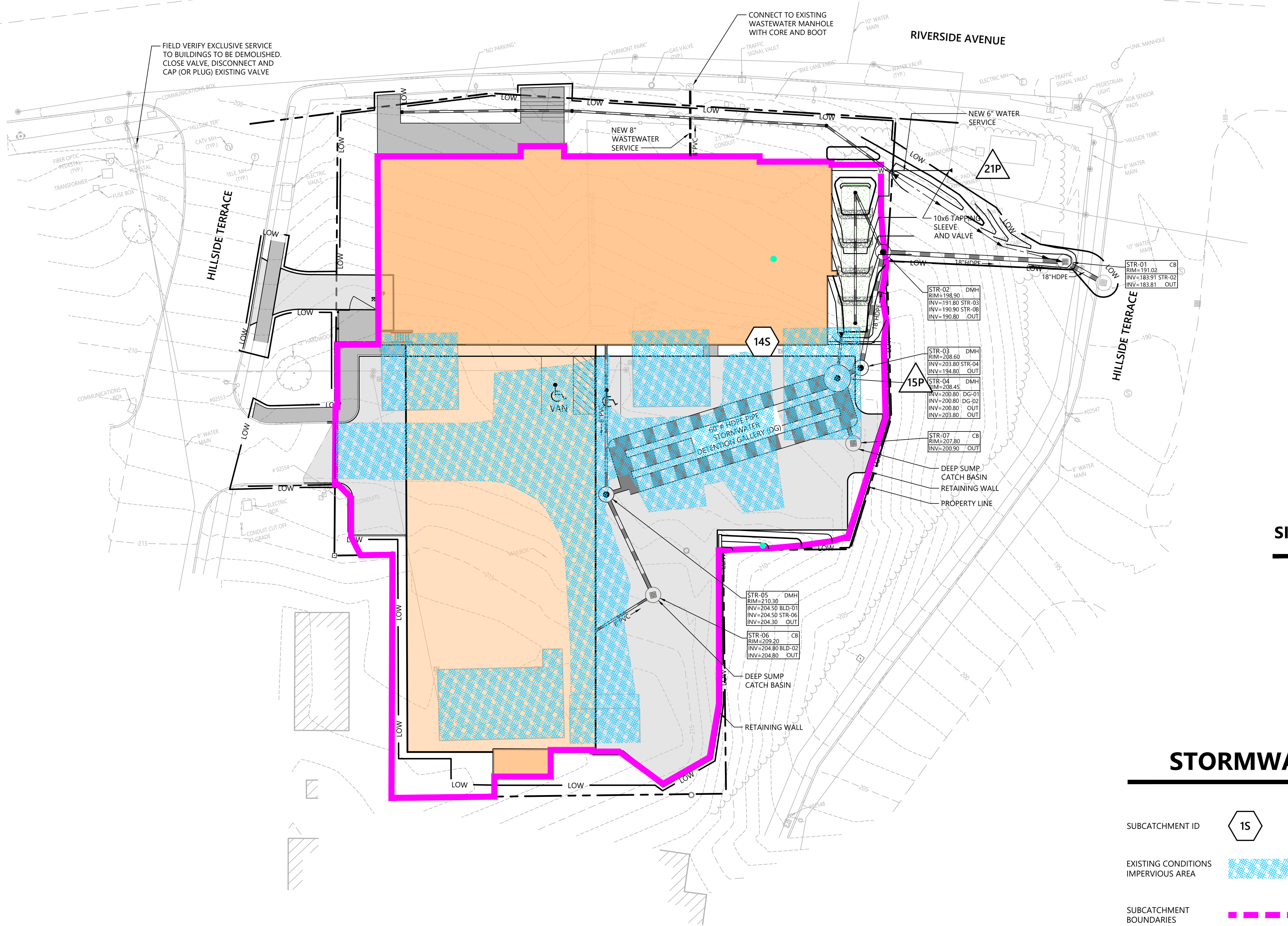
Project Number  
58036.00





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Building 100 Suite 200  
South Burlington, VT 05403  
802.497.6100

| STORMWATER MAINTENANCE PLAN |        |                      |                                                                                                                                                      |
|-----------------------------|--------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| STORMWATER SYSTEM           | SYMBOL | INSPECTION FREQUENCY | MAINTENANCE ACTIVITY TRIGGERS AND ACTIONS                                                                                                            |
| CATCH BASIN (DEEP SUMP)     |        | ANNUAL               | SEDIMENT SHALL BE CLEANED OUT OF CATCH BASIN SUMPS WHEN IT ACCUMULATES TO >50% OF SUMP DEPTH.                                                        |
| ROOF DRAIN                  |        |                      | ROOF DRAIN INLETS AND OUTLETS SHALL BE KEPT CLEAN OF DEBRIS.                                                                                         |
| SUBSURFACE STORAGE          |        |                      | INSPECT AND REMOVE DEBRIS FROM OUTLET CONTROL. REMOVE ACCUMULATION OF DEBRIS FROM PIPE CHAMBERS AS NEEDED.                                           |
| DRY SWALE                   |        |                      | WHEN WATER PONDS IN THE BOTTOM OF THE DRY SWALE FOR MORE THAN 48 HOURS THE TOP FEW INCHES OF MATERIAL SHALL BE REMOVED AND REPLACED WITH CLEAN SAND. |



SITE PLAN INFORMATION

- 1. TOTAL LOT SIZE = 0.893 ACRES
- 2. PERCENT LOT DISTURBED = 97%
- 3. AREA IMPERVIOUS PRE-DEVELOPMENT
  - 3.1. TOTAL AREA =11,519 SF (0.264 AC)
  - 3.2. PERCENT OF SITE = 29.6%
- 4. IMPERVIOUS POST-DEVELOPMENT
  - 4.1. TOTAL AREA = 31,037 SF (0.713 AC)
  - 4.2. PERCENT OF SITE = 79.8%

STORMWATER LEGEND

SUBCATCHMENT ID

1S

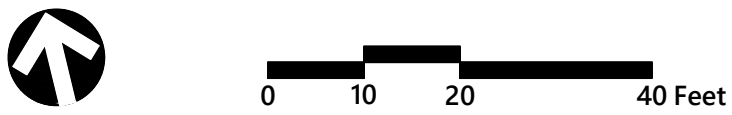
EXISTING CONDITIONS IMPERVIOUS AREA

SUBCATCHMENT BOUNDARIES

TREATMENT PRACTICE ID

1P

PROPOSED CONDITIONS IMPERVIOUS AREA



Blackrock  
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Senior Apartments

356 Riverside Ave  
Burlington, Vermont

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| Designed by | TAS/CHS       | Checked by | JRZ               |
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Drawing Title

Stormwater Management & Maintenance Plan

Drawing Number

SW-1.10

Sheet 16 of 16

Project Number  
58036.00



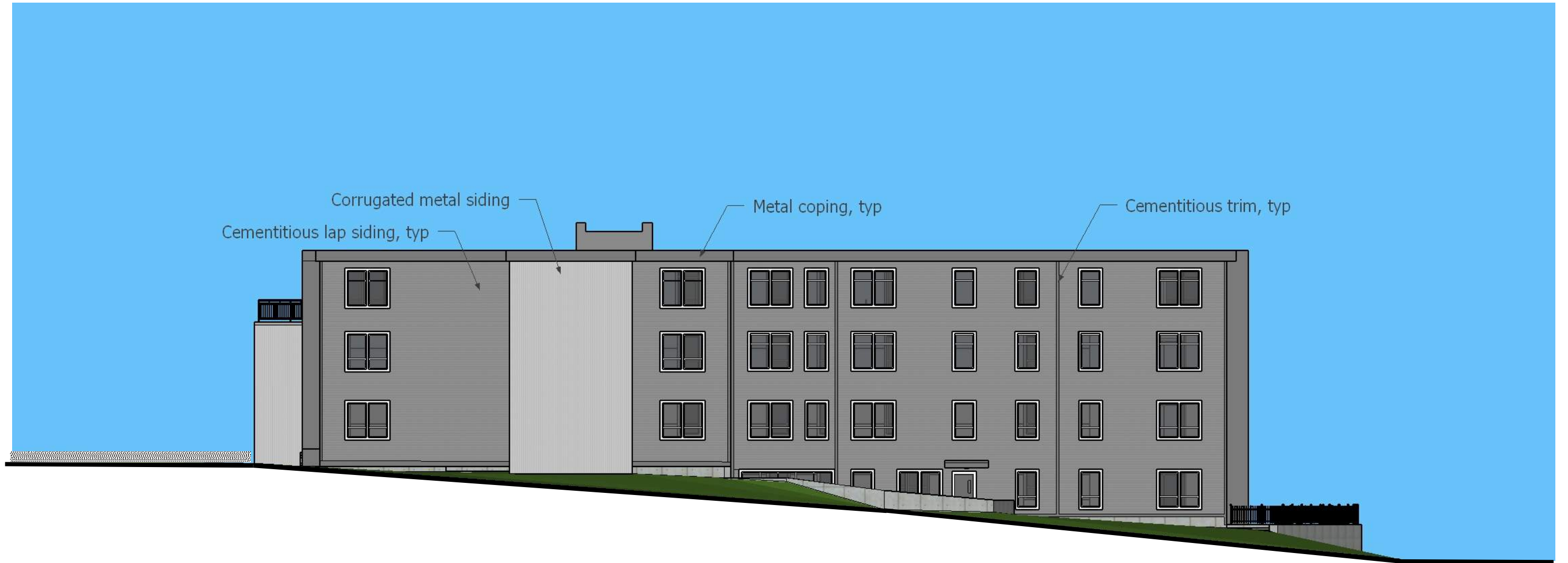


NORTH ELEVATION  
1/16" = 1'-0"

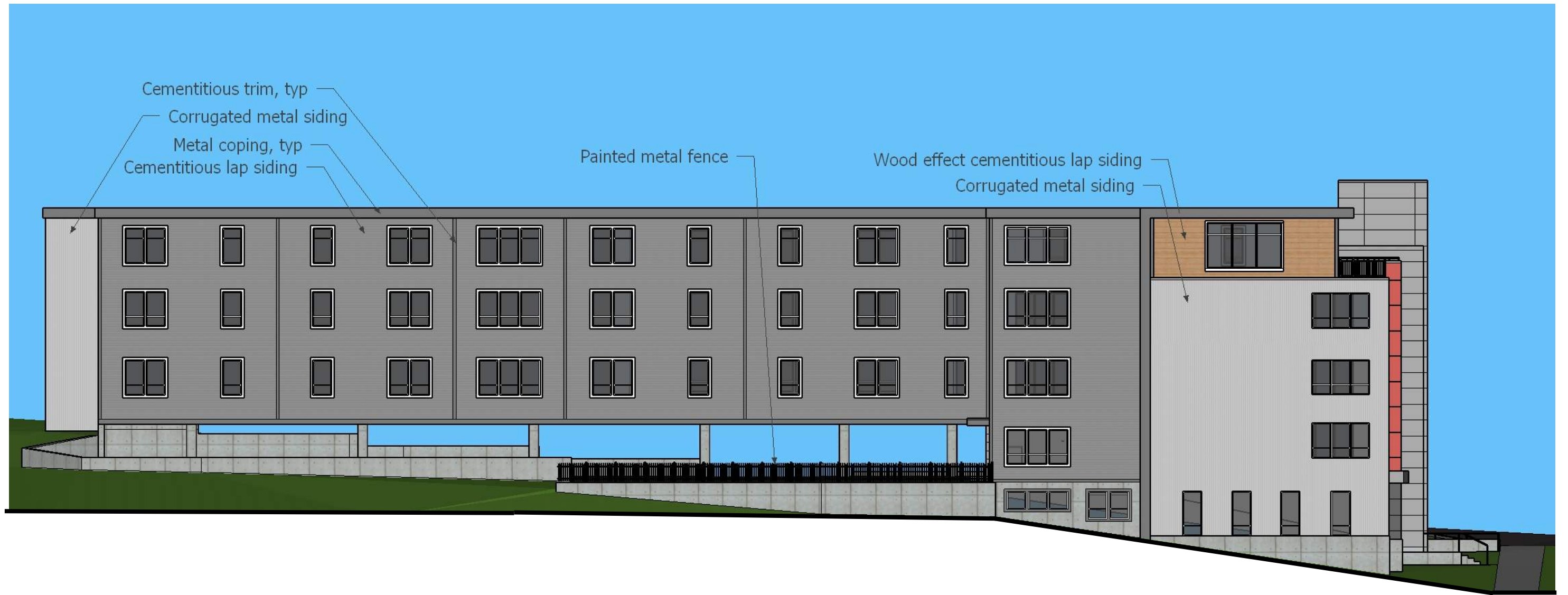


WEST ELEVATION  
1/16" = 1'-0"





SOUTH ELEVATION  
1/16" = 1'-0"



EAST ELEVATION  
1/16" = 1'-0"



















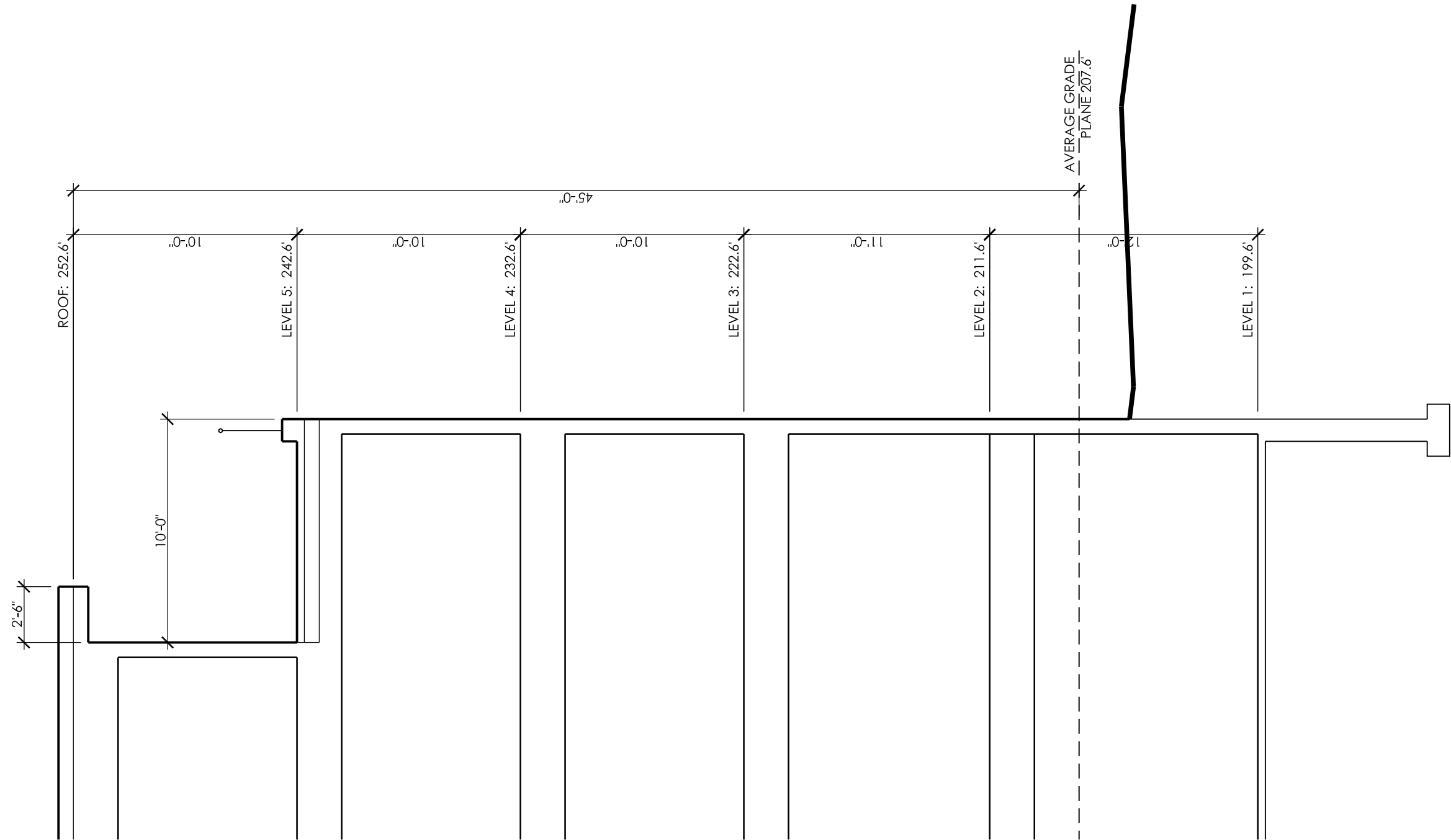




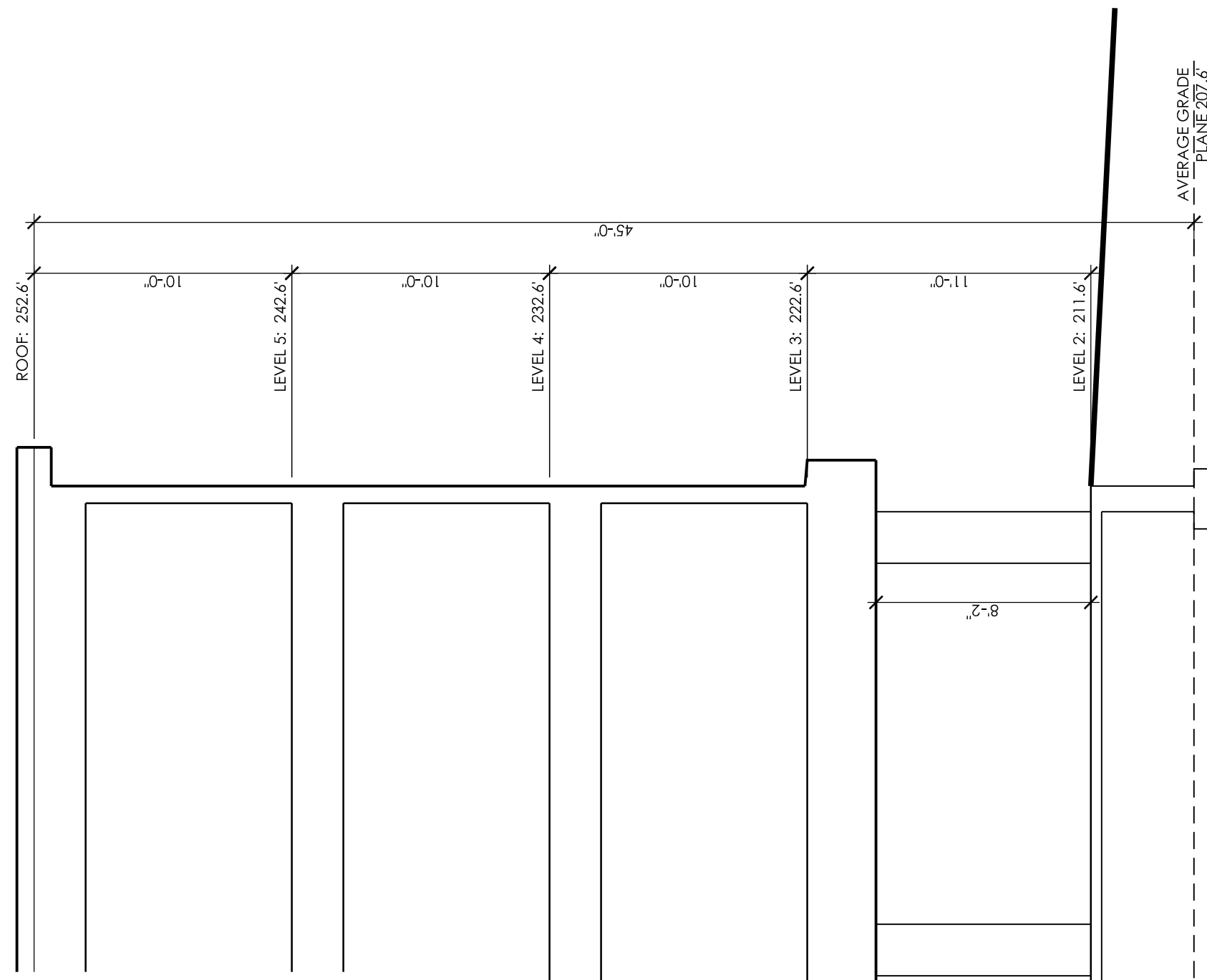








SECTION 2 LOOKING SOUTH  
3/16" = 1'-0"



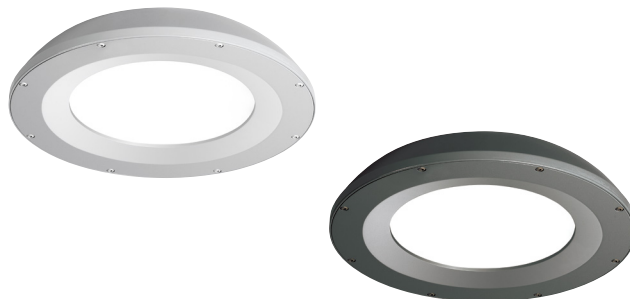
SECTION 3 AT VEHICLE ENTRANCE LOOKING SOUTH  
3/16" = 1'-0"

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## FEATURES

- For ceiling mount and parking garage applications from an 8–15 foot mounting height
- Edge-lit flat lens for optimal visual comfort and uniformity across the lens
- Two optical distributions specifically design for parking garage and canopy applications are available making the Beacon Edge-Lit luminaire both versatile and functional
- UL/cUL listed for wet locations, IP65 and 3G vibration rated
- Occupancy sensor available for complete on/off and dimming operation



## RELATED PRODUCTS

[Drive Edge-Lit SRT2](#)
[Orbeon](#)
[Viper Small](#)

## SPECIFICATIONS

### HOUSING

- Die-cast aluminum housing ensures long electrical component life and luminaire performance
- Corrosion resistant powder coat finish both protects and provides architectural appearance
- One piece molded silicone gasket ensures weather proof seal
- Thermally isolated driver mounted to dedicated bracket reduces operating temperatures and increases driver life and reliability

### OPTICS

- Edge-lit acrylic light guide provides blended non-pixelated light for unprecedented visual comfort
- Choice of multiple light outputs with lumen range of 2000–6000
- Two distribution types: Type 5 Square Wide, Type 5 Concentrated
- Wide variety of CCT's and CRI's offered: 3000K (70CRI), 3000K (80CRI), 3500K (80CRI), 4000K (70CRI), 4000K (80CRI) or 5000K (70 CRI) CCT

### ELECTRICAL

- 120V–277V 50/60Hz available
- 0–10V dimming drivers are RoHS compliant

### INSTALLATION

- Standard quick mount plate over standard 4" junction box or octagonal junction box and allows for simplified fixture installation
- Standard luminaire accepts a rigid or 3/4" NPT stem for pendant mounting via wet location j-box (by others)
- Optional bird deterrent shroud available for field installation

### OPTIONS/CONTROLS

- Standalone occupancy sensor available for on/off or dimming operation
- Uplight option provides approximately 800 lumens and consumes only 8 additional watts
- Vandal resistant wire guard available as an option for factory installation or as an accessory for field installation.

### CERTIFICATIONS

- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplight for 3000K and warmer CCTs
- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- IP65

### WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

| KEY DATA              |           |
|-----------------------|-----------|
| Lumen Range           | 2000–6800 |
| Wattage Range         | 15–55W    |
| Efficacy Range (LPW)  | 99–118    |
| Reported Life (Hours) | 50K       |
| Weight lbs. (kg)      | 8 (3.6)   |



# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## ORDERING GUIDE

Example: SRT1-35-3K7-5QW-UNV-BLT-WG

CATALOG #

| Series                                          | Engine                    | CCT                   | Distribution              | Voltage           | Color/Finish                 | Options                                  |
|-------------------------------------------------|---------------------------|-----------------------|---------------------------|-------------------|------------------------------|------------------------------------------|
| SRT1<br>Edge-Lit<br>Parking<br>Garage<br>Size 1 | 15 15W Nominal<br>2000 lm | 3K7 3000K,<br>70 CRI  | 5QW Type 5<br>Square Wide | UNV 120V-<br>277V | BLT Black Matte Textured     | CD Continuous Dimming <sup>4</sup>       |
|                                                 | 20 20W Nominal<br>2500 lm | 3K8 3000K,<br>80 CRI  | 5C Type 5<br>Concentrated | 120 120V          | BLS Black Gloss Smooth       | WG Wire Guard                            |
|                                                 | 35 35W Nominal<br>4000 lm | 35K8 3500K,<br>80 CRI |                           | 208 208V          | DBT Dark Bronze Matte        | UD Uplight Module <sup>3</sup>           |
|                                                 | 55 55W Nominal<br>6000 lm | 4K7 4000K,<br>70 CRI  |                           | 240 240V          | DBS Dark Bronze Gloss Smooth | F Single Fuse (120, 277) <sup>1</sup>    |
|                                                 |                           | 4K8 4000K,<br>80 CRI  |                           | 277 277V          | GTT Graphite Matte Textured  | LD3 36" Lead Length <sup>2</sup>         |
|                                                 |                           | 5K7 5000K,<br>70 CRI  |                           |                   | LGS Light Grey Gloss Smooth  | LD6 72" Lead Length <sup>2</sup>         |
|                                                 |                           |                       |                           |                   | PSS Platinum Silver Smooth   | LD9 108" Lead Length <sup>2</sup>        |
|                                                 |                           |                       |                           |                   | WHT White Matte Textured     | SP10K 10kA Surge Protection <sup>3</sup> |
|                                                 |                           |                       |                           |                   | WHS White Gloss Smooth       | LMB Less Mounting Bracket                |
|                                                 |                           |                       |                           |                   | VGT Verde Green Textured     |                                          |
|                                                 |                           |                       |                           |                   | <b>Color Option</b>          |                                          |
|                                                 |                           |                       |                           |                   | CC Custom Colors             |                                          |

| Control Options        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| <b>NX Standalone</b>   |                                                                                                   |
| NXOS12F                | NX Distributed Intelligence™, PIR Occ. Sensor, Dimming Daylight Harvesting, up to 12' MH          |
| <b>Sensor Controls</b> |                                                                                                   |
| SCP-8F                 | Remote control programmable line voltage sensor (8-12' recommended mounting height) <sup>5</sup>  |
| SCP-20F                | Remote control programmable line voltage sensor (12-20' recommended mounting height) <sup>5</sup> |

### Accessories (Order Separately)

- ☐ SRT1-WG Wire Guard
- ☐ SRT-MB Mounting bracket for pre-installation
- ☐ SRT1-BS-XXX Bird deterrent shroud for SRT1 version, not available with uplight
- ☐ SCP-REMOTE Remote control for SCP option; order at least on per project to program and control

#### Notes:

- 1 Must specify voltage
- 2 Standard wire lead length 24"
- 3 SP10K LED indicator not available with uplight
- 4 Specify when using external 0-10V dimming system
- 5 120V or 277V only

## PERFORMANCE DATA

| Nominal Watts | Nominal Lumens | Distribution | 5K (5000K NOMINAL 70 CRI) |        |   |   |   | 4K (4000K NOMINAL 70 CRI) |        |   |   |   | 3K (3000K NOMINAL 70 CRI) |        |   |   |   |
|---------------|----------------|--------------|---------------------------|--------|---|---|---|---------------------------|--------|---|---|---|---------------------------|--------|---|---|---|
|               |                |              | Lumens                    | LPW    | B | U | G | Lumens                    | LPW    | B | U | G | Lumens                    | LPW    | B | U | G |
| 15            | 2000           | 5C           | 2470                      | 146.61 | 1 | 0 | 1 | 2459                      | 145.91 | 1 | 0 | 1 | 2364                      | 140.30 | 1 | 0 | 1 |
|               |                | 5QW          | 2378                      | 141.15 | 1 | 0 | 1 | 2367                      | 140.48 | 1 | 0 | 1 | 2276                      | 135.07 | 1 | 0 | 1 |
| 20            | 3000           | 5C           | 3093                      | 136.86 | 1 | 0 | 1 | 3078                      | 136.21 | 1 | 0 | 1 | 2960                      | 130.97 | 1 | 0 | 1 |
|               |                | 5QW          | 2974                      | 131.60 | 1 | 0 | 1 | 2960                      | 130.97 | 1 | 0 | 1 | 2846                      | 125.93 | 1 | 0 | 1 |
| 35            | 4500           | 5C           | 4757                      | 131.05 | 2 | 0 | 1 | 4734                      | 130.42 | 2 | 0 | 1 | 4552                      | 125.41 | 2 | 0 | 1 |
|               |                | 5QW          | 4574                      | 126.01 | 2 | 0 | 1 | 4552                      | 125.41 | 2 | 0 | 1 | 4377                      | 120.58 | 2 | 0 | 1 |
| 55            | 6500           | 5C           | 6814                      | 127.13 | 2 | 0 | 1 | 6782                      | 126.52 | 2 | 0 | 1 | 6521                      | 121.66 | 2 | 0 | 1 |
|               |                | 5QW          | 6552                      | 122.24 | 3 | 0 | 1 | 6521                      | 121.66 | 3 | 0 | 1 | 6270                      | 116.98 | 3 | 0 | 1 |

## ELECTRICAL DATA

| Nominal Watts | System Watts | Line Voltage |       | AMPS AC |      |      |      | Dimming Range | Absolute Voltage Range on 0-10V (+) |     |
|---------------|--------------|--------------|-------|---------|------|------|------|---------------|-------------------------------------|-----|
|               |              | VAC          | HZ    | 120     | 208  | 240  | 277  |               | VAC                                 | HZ  |
| 15            | 16.9         | 120-277      | 50/60 | 0.14    | 0.08 | 0.07 | 0.06 | 10% to 100%   | 0V                                  | 10V |
| 20            | 21.6         | 120-277      | 50/60 | 0.18    | 0.10 | 0.09 | 0.08 | 10% to 100%   | 0V                                  | 10V |
| 35            | 34.6         | 120-277      | 50/61 | 0.29    | 0.17 | 0.14 | 0.12 | 10% to 100%   | 0V                                  | 10V |
| 55            | 54.9         | 120-277      | 50/62 | 0.46    | 0.26 | 0.23 | 0.20 | 10% to 100%   | 0V                                  | 10V |

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

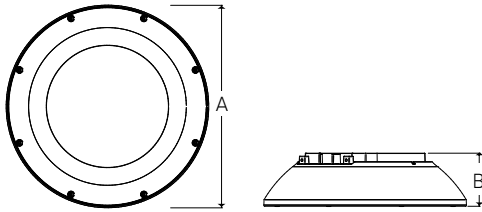
## PROJECTED LUMEN MAINTENANCE

| Ambient Temp. | 0    | 25,000 | *TM-21-11<br>36,000 | 50,000 | 100,000 | Calculated L <sub>70</sub><br>(Hours) |
|---------------|------|--------|---------------------|--------|---------|---------------------------------------|
| 25°C / 77°F   | 1.00 | 0.98   | 0.96                | 0.95   | 0.89    | 278,000                               |
| 40°C / 104°F  | 0.99 | 0.98   | 0.96                | 0.94   | 0.88    | 264,000                               |

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

| Ambient Temperature |       | Lumen Multiplier |
|---------------------|-------|------------------|
| 0°C                 | 32°F  | 1.03             |
| 10°C                | 50°F  | 1.01             |
| 20°C                | 68°F  | 1.00             |
| 25°C                | 77°F  | 1.00             |
| 30°C                | 86°F  | 0.99             |
| 40°C                | 104°F | 0.98             |
| 50°C                | 122°F | 0.97             |

## DIMENSIONS



| A              | B              | Weight          |
|----------------|----------------|-----------------|
| 12"<br>(304mm) | 3.1"<br>(78mm) | 8lbs<br>(3.6kg) |

## ADDITIONAL INFORMATION

### FINISH OPTIONS



Wire Guard

An optional wire guard can be specified at the factory or as an accessory for field installation.



Bird Deterrent

An optional bird shroud deterrent can be specified at the factory or as an accessory for field installation.

# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

## ADDITIONAL INFORMATION (CONT'D)

### MOUNTING



Surface Mount

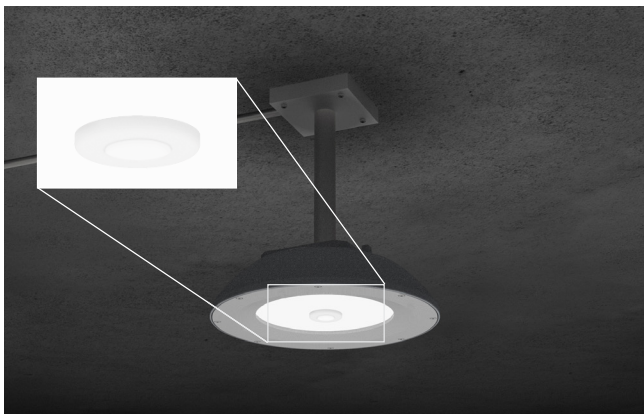
Mounting plate with "quick mount" hanger for one person simple installation.



Pendant Mount

Standard 3/4" threaded entry for pendant applications.

### CONTROLS



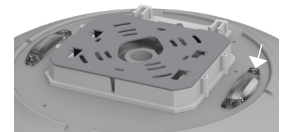
Standalone Controls

Optional passive infrared sensors are available for basic occupancy and daylight sensing. Programmable via remote or Bluetooth® phone app.

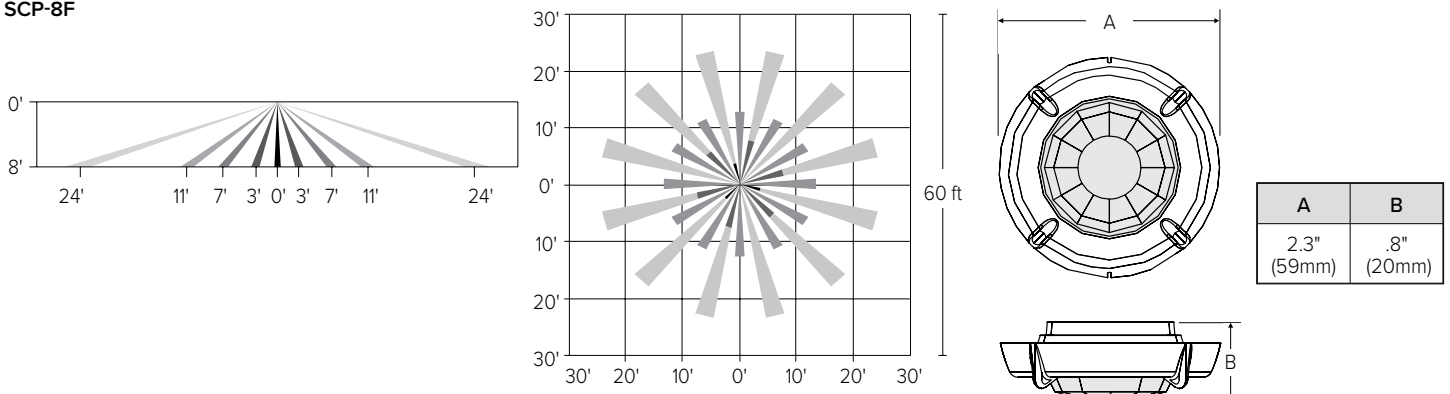


Uplight

Optional uplight module provides 800 lumens of indirect illumination for improved visual quality while eliminating cave effect.



### SCP-8F





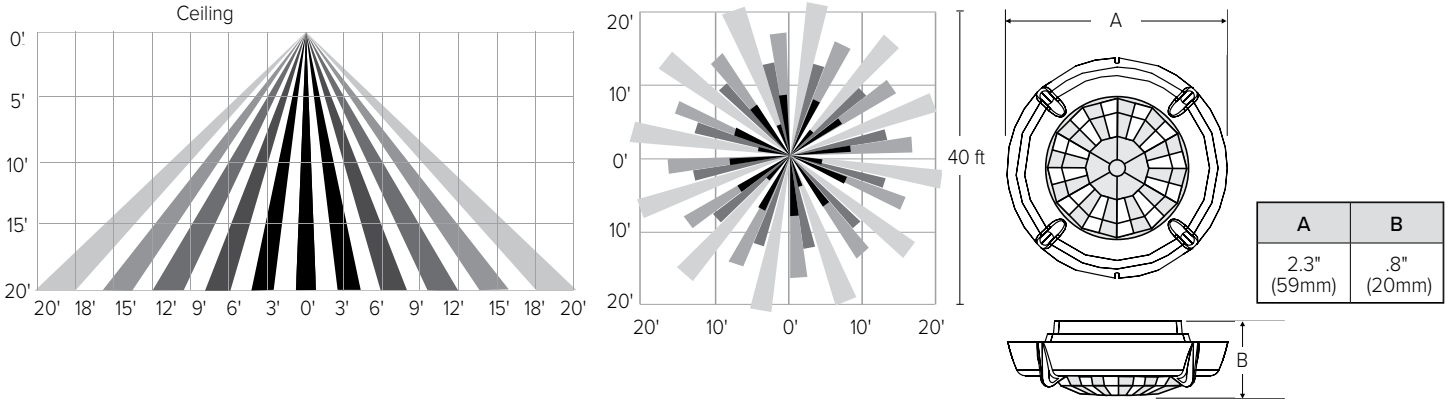
# SRT1 EDGE-LIT

CEILING/SURFACE/GARAGE

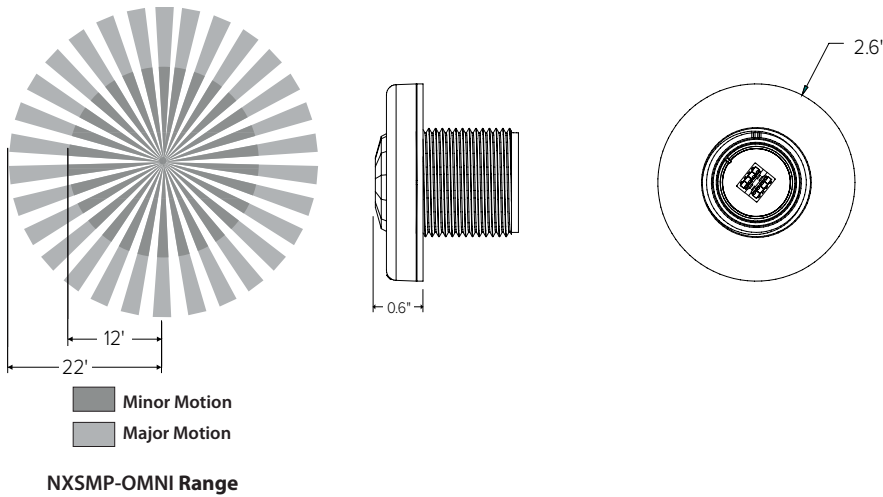
## ADDITIONAL INFORMATION (CONT'D)

### CONTROLS (CONT'D)

#### SCP-20F



#### NXOS12F



## USE OF TRADEMARKS AND TRADE NAMES

All product and company names, logos and product identifies are trademarks ™ or registered trademarks ® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.

**Type:**

**Job:**

**Catalog number:**

|         |                   |                  |
|---------|-------------------|------------------|
| /       | /                 | /                |
| Fixture | Electrical Module | Luminaire Finish |
|         |                   | Option           |

See page 2

**Approvals:**

**Date:**

**Page: 1 of 3**

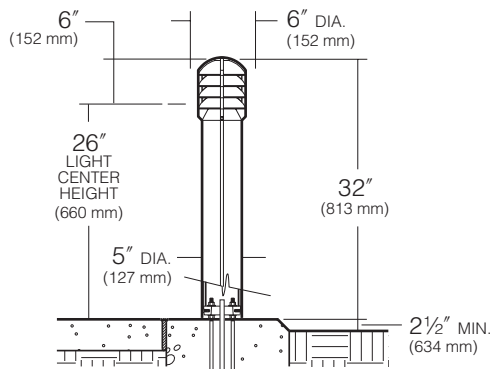
## Specifications

### CB Models

10 to 20 Diodes

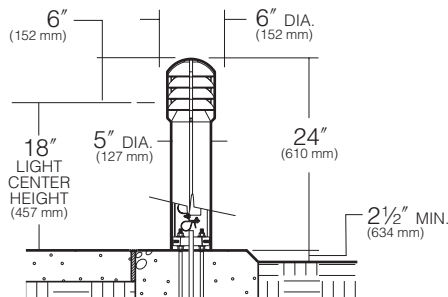
### CB32

Maximum weight: 20 lb

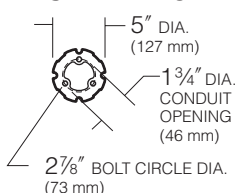


### CB24

Maximum weight: 17 lb



### BASE PLAN CB



**Top, Louvers:** Interlocking die-cast, low-copper (<0.6% Cu) aluminum sections fasten together with concealed stainless steel screws. Louver base assembly fastens internally to riser with 4 concealed screws.

**Riser:** Extruded aluminum, 5" diameter, .125" typical wall thickness, external vertical grooves align with vertical members on louver assembly. Attaches to anchor base with 4 countersunk stainless steel flat socket head screws finished to match fixture.

**Anchor Base:** Heavy cast aluminum, fully concealed within riser shaft. Three 3/8" x 10" + 2" zinc plated anchor bolts, each with two nuts and washers, and a rigid pressboard template.

**Globe:** Internally fluted, clear tempered glass, fully gasketed.

**Optical Module:** Each LED equipped with a directional optic for maximum beam angle projecting through louver stack spacings. LED boards to be mounted to an anodized inter-locking heat sink extrusion. (Type I) two 5-LED boards for a total of 10-LED. (Type III) three 5-LED boards for a total of 15-LED. (Type V) four 5-LED boards for a total of 20-LED. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

**Electronic Module:** All electrical components are either UL or ETL recognized, mounted on a single plate and factory prewired with quick disconnect plugs. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

**Finish:** Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidic isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

**Listed to:** UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

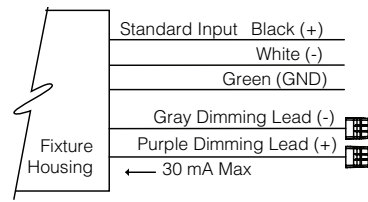
**Warranty:** Kim Lighting warrants Bollard LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5) years for exterior housing paint finish(s), (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LifeShield® device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

**CAUTION:** Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE



## Standard and Optional Features

|                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fixture</b><br>Cat. No. designates fixture.                                                                                                                          | Cat. No. <input type="checkbox"/> <b>CB24</b> Compact Bollard 24" overall height<br><input type="checkbox"/> <b>CB32</b> Compact Bollard 32" overall height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Electrical Module</b><br><b>LED</b> = Light Emitting Diode                                                                                                           | Cat. Nos. for LED Electrical Modules available: <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <b>xL</b><br/> <b>Source:</b><br/> <input type="checkbox"/> <b>10L</b>= 10 LED<br/>                             (IES Type I)<br/> <input type="checkbox"/> <b>15L</b>= 15 LED<br/>                             (IES Type III)<br/> <input type="checkbox"/> <b>20L</b>= 20 LED<br/>                             (IES Type V)         </div> <div style="text-align: center;"> <b>xK</b><br/> <b>Color Temperature:</b><br/> <input type="checkbox"/> 2K = 580nm - Amber<br/> <input type="checkbox"/> 3K = 3000K<br/> <input type="checkbox"/> 4K = 4200K<br/> <input type="checkbox"/> 5K = 5100K         </div> <div style="text-align: center;"> <b>UV</b><br/> <b>Voltage:</b><br/> <input type="checkbox"/> <b>UV</b> Universal Voltage<br/>                             shall range from<br/>                             120V-277V         </div> </div> |
| <b>Finish</b><br>TGIC thermoset polyester powder coat paint on fixture and shaft                                                                                        | <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <span>Color:</span> <span>Black    Dark Bronze    Light Gray    Graphite    Platinum Silver    Titanium    White    Custom Color<sup>1</sup></span> </div> <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <span>Cat. No.:</span> <span><input type="checkbox"/> <b>BL</b>    <input type="checkbox"/> <b>DB</b>    <input type="checkbox"/> <b>LG</b>    <input type="checkbox"/> <b>GT</b>    <input type="checkbox"/> <b>PS</b>    <input type="checkbox"/> <b>TT</b>    <input type="checkbox"/> <b>WH</b>    <input type="checkbox"/> <b>CC</b></span> </div> <p><sup>1</sup>Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>                                                                                                                                                                        |
| <b>Battery Back-up</b><br>Cat. No. <input type="checkbox"/> <b>EM</b><br><input type="checkbox"/> <b>No Option</b>                                                      | Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens.<br><b>NOTE:</b> For CB32 only. <div style="text-align: right; margin-top: 20px;"> <br/>         Battery Back-up       </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Optional Duplex Receptacle</b><br>Cat. No. <input type="checkbox"/> <b>DR</b><br><input type="checkbox"/> <b>DR-GFI</b><br><input type="checkbox"/> <b>No Option</b> | (CB32 only) Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed While-In-Use cover with locking tab. Painted to match bollard.<br><b>DR</b> weather proof duplex receptacle rated 20A, 125V.<br><b>DR-GFI</b> weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>0-10V Dimming Interface</b>                                                                                                                                          | Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB™. Approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead. <div style="text-align: right; margin-top: 20px;">  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |





## Lumen Data

| Spectroradiometric             |               |               |               |
|--------------------------------|---------------|---------------|---------------|
|                                | 3000K Average | 4200K Average | 5100K Average |
| Correlated Color Temp. CCT (K) | 2800K - 3175K | 3800K - 4600K | 4600K - 5600K |
| Color Rendering Index (CRI)    | ≥75           | ≥70           | ≥65           |
| Power Factor                   | >.90          | >.90          | >.90          |

| Projected Lumen Maintenance |            |             |
|-----------------------------|------------|-------------|
| mA                          | 50,000 hrs | 100,000 hrs |
| 350mA                       | N/A        | N/A         |

Based on 20LED version.

| Electrical Drive Current - @350mA |           |              |           |              |           |              |
|-----------------------------------|-----------|--------------|-----------|--------------|-----------|--------------|
| Volts - AC                        | Type 1    |              | Type 3    |              | Type 5    |              |
|                                   | Amps - AC | System Watts | Amps - AC | System Watts | Amps - AC | System Watts |
| 120                               | 0.11      | 13           | 0.16      | 19           | 0.21      | 25           |
| 208                               | 0.06      | 13           | 0.09      | 19           | 0.12      | 25           |
| 240                               | 0.05      | 13           | 0.08      | 19           | 0.10      | 25           |
| 277                               | 0.05      | 13           | 0.07      | 19           | 0.09      | 25           |

| B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare |          |          |          |
|----------------------------------------------------------------------------|----------|----------|----------|
| Temperature                                                                | TYPE 1   | TYPE 3   | TYPE 5   |
| 3000K                                                                      | B0 U2 G1 | B0 U2 G1 | B1 U2 G1 |
| 4200K                                                                      | B0 U2 G1 | B0 U2 G1 | B1 U2 G1 |
| 5100K                                                                      | B0 U2 G1 | B0 U2 G1 | B1 U2 G1 |

| Absolute Lumens |        |        |        |
|-----------------|--------|--------|--------|
| Temperature     | TYPE 1 | TYPE 3 | TYPE 5 |
| 3000K           | 403    | 533    | 795    |
| 4200K           | 499    | 705    | 985    |
| 5100K           | 525    | 740    | 1036   |

LED performance and lumen output continues to improve at a rapid pace. Log onto [www.kimlighting.com](http://www.kimlighting.com) to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.

# TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type



Approvals

## SPECIFICATIONS

### Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations.

### Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air by drawing heat through integral heat channels and out to the sculptured and functional luminaire surface.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Main housing is designed with heat dissipating fins for LED thermal management without the use of metallic screens, cages, or fans.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

### LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the Traverse luminaire to be rated for high-pressure hose down applications.
- Optical cartridge is secured to the extruded housing with fasteners and a heat pad to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

### Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is min 0.92 at full load.
- All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2.
- Optional 0 to 10 volt dimming drivers are available upon request.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Surge protection - 20KA

### Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations
- Available with Energeni for optional set dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni))
- In addition, Traverse can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit: [www.hubbelllighting.com/sitesync/](http://www.hubbelllighting.com/sitesync/) for more details

### Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed 4" junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

### Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

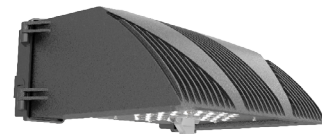
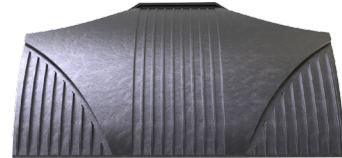
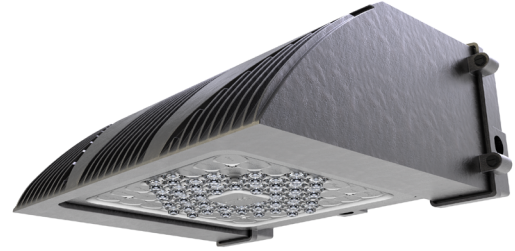
### Listings:

- The luminaire shall bear a CSA label and be marked suitable for wet locations (standard).
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: <http://www.beaconproducts.com/products/traverse>

### Warranty:

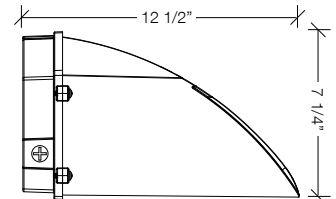
Five year limited warranty for more information visit: [www.hubbelllighting.com/resources/warranty](http://www.hubbelllighting.com/resources/warranty)

## PRODUCT IMAGE(S)

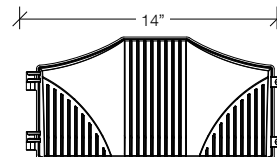


Shown with SiteSync™

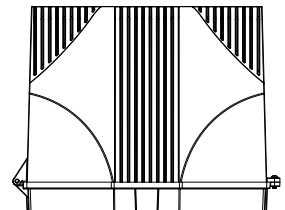
## DIMENSIONS



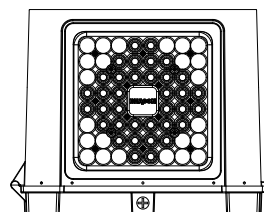
Side View



Front View



Top View



Bottom View

## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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**HUBBELL**  
Lighting

# ORDERING INFORMATION ORDERING EXAMPLE: TRV-D/60NB-136/5K/T5R/UNV/GENIXX/PEC/BBT

| SERIES                                           | ENGINE-WATTS                   | LED COLOR <sup>11</sup> | OPTICS                  | CONTROL OPTIONS                                                             | FINISH                         |
|--------------------------------------------------|--------------------------------|-------------------------|-------------------------|-----------------------------------------------------------------------------|--------------------------------|
| TRV-D Traverse Down Light                        | 24NB-27 27 Watts - LED array   | 3K 3000K                | T2 Type II              | GENI-XX <sup>6</sup> Energeni                                               | BBT basic black textured       |
| TRV-U <sup>1</sup> Traverse Up Light (lens req.) | 24NB-55 55 Watts - LED array   | 4K 4000K                | T3 Type III             | SWP <sup>7,8</sup> SiteSync Wire-less Pre-Commission                        | BMT black matte textured       |
|                                                  | 36NB-80 80 Watts - LED array   | 5K 5000K                | T4 Type IV              | SWPM <sup>7,8,9</sup> SiteSync Wire-less Pre-Commission w/ Occupancy Sensor | WHT white textured             |
|                                                  | 48NB-110 110 Watts - LED array |                         | T5R Type V, rectangular |                                                                             | MBT metallic bronze textured   |
|                                                  | 60NB-136 136 Watts - LED array |                         | 2X2 Narrow spot flood   |                                                                             | BZT bronze textured            |
|                                                  |                                |                         | 5X5 Medium flood        |                                                                             | DBT dark bronze textured       |
|                                                  |                                |                         |                         |                                                                             | GYG gray smooth                |
|                                                  |                                |                         |                         |                                                                             | DPS dark platinum smooth       |
|                                                  |                                |                         |                         |                                                                             | GNT green textured             |
|                                                  |                                |                         |                         |                                                                             | MST metallic silver textured   |
|                                                  |                                |                         |                         |                                                                             | MTT metallic titanium textured |
|                                                  |                                |                         |                         |                                                                             | OWI old world iron             |
|                                                  |                                |                         |                         |                                                                             | RAL _____                      |

## VOLTAGE

UNV 120-277V  
347 347V  
480 480V

## SENSOR OPTIONS

MOB<sup>3,5,7,9</sup> Occupancy Sensor (33% or 50% dimming)

## ELECTRICAL OPTIONS

PEC Photocell, button  
2PF<sup>2,3,10</sup> Dual power feed  
BPC<sup>4</sup> Cold weather battery pack

<sup>1</sup> Indoor use only

<sup>2</sup> Not available on 24NB-27

<sup>3</sup> Not available @ 347V or 480V input

<sup>4</sup> 36NB-80 only, not available with SWP or SWPM control options

<sup>5</sup> Not available on 48NB-110 or 60NB-136

<sup>6</sup> When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.

<sup>7</sup> Not available with other control or sensor options. PEC is available with MOB and OCS.  
<sup>8</sup> Specify group and zone. See SiteSync product page [www.hubbellighting.com/controls/sitesync](http://www.hubbellighting.com/controls/sitesync) for more details.

<sup>9</sup> Specify time delay; dimming level and mounting height.

<sup>10</sup> Not available with SWP or SWPM control options.

<sup>11</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at [http://cdn.beaconproducts.com/content/products/specs/specs\\_files/Traverse\\_LED\\_turtle\\_spec\\_sheet.pdf](http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.hubbellighting.com/products/sitesync/](http://www.hubbellighting.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: TRV/24NB-55/5K/T3/UNV/SWP/DBT SiteSync only  
TRV/24NB-55/5K/T3/UNV/SWPM-20F/DBT SiteSync with Occupancy Sensor

**MOB ORDERING INFORMATION:** When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

TRV/24NB-55/5K/T3/UNV/MOB - 1 to 30 min. - 33% or 50% - ?? / DBT

High to Dim Delay Low Level Mounting Height (ft.)

Accessories and Services (Ordered Separately)

| Catalog Number | Description                                             |
|----------------|---------------------------------------------------------|
| SWUSB*         | SiteSync loaded on USB flash drive (Windows based only) |
| SWTAB*         | SiteSync Windows Tablet                                 |
| SWBRG*         | SiteSync Wireless Bridge Node                           |

\*When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.

+ If needed, an additional Bridge Node can be ordered.



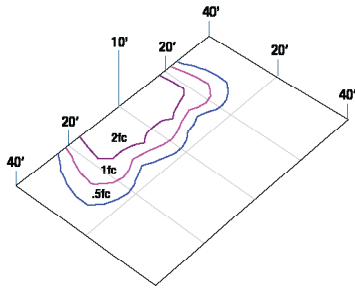
SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.



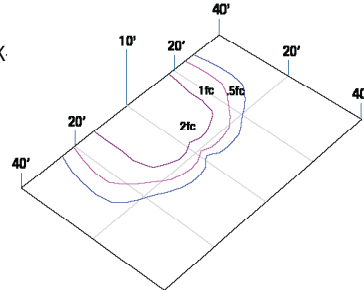


## PHOTOMETRICS

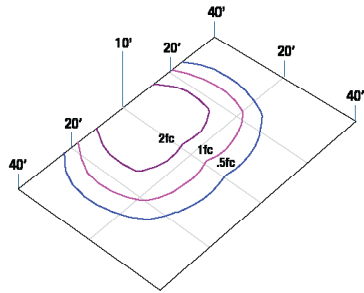
Type II  
TRV-60NB-136-5K-T2



Type III  
TRV-60NB-136-5K



Type IV  
TRV-60NB-136-5K-T4



## PERFORMANCE DATA

| # LED'S | DRIVE CURRENT (MILLIAMPS) | SYSTEM WATTS | DISTRIBUTION TYPE | 5K<br>(5000K nominal, 70 CRI) |                  |   |   |   | 4K<br>(4000K nominal, 70 CRI) |                  |   |   |   | 3K<br>(3000K nominal, 80 CRI) |                  |   |   |   |
|---------|---------------------------|--------------|-------------------|-------------------------------|------------------|---|---|---|-------------------------------|------------------|---|---|---|-------------------------------|------------------|---|---|---|
|         |                           |              |                   | LUMENS                        | LPW <sup>1</sup> | B | U | G | LUMENS                        | LPW <sup>1</sup> | B | U | G | LUMENS                        | LPW <sup>1</sup> | B | U | G |
| 24      | 350mA                     | 27w          | T2                | 2833                          | 105              | 1 | 0 | 1 | 2805                          | 104              | 1 | 0 | 1 | 2408                          | 89               | 1 | 0 | 1 |
|         |                           |              | T3                | 2805                          | 104              | 1 | 0 | 1 | 2777                          | 103              | 1 | 0 | 1 | 2392                          | 89               | 1 | 0 | 1 |
|         |                           |              | T4                | 3086                          | 114              | 1 | 0 | 1 | 3055                          | 113              | 1 | 0 | 1 | 2623                          | 97               | 1 | 0 | 1 |
|         |                           |              | T5R               | 3142                          | 116              | 2 | 0 | 2 | 3111                          | 115              | 2 | 0 | 2 | 2670                          | 99               | 2 | 0 | 2 |
|         |                           |              | 5X5               | 3031                          | 112              | 2 | 0 | 1 | 3001                          | 111              | 2 | 0 | 1 | 2577                          | 95               | 2 | 0 | 1 |
|         |                           |              | 2X2               | 3287                          | 122              | 3 | 0 | 1 | 3254                          | 121              | 3 | 0 | 1 | 2794                          | 103              | 3 | 0 | 1 |
| 24      | 700mA                     | 55w          | T2                | 5666                          | 102              | 2 | 0 | 2 | 5610                          | 101              | 2 | 0 | 2 | 4816                          | 86               | 1 | 0 | 2 |
|         |                           |              | T3                | 5610                          | 101              | 1 | 0 | 2 | 5554                          | 100              | 1 | 0 | 2 | 4784                          | 86               | 1 | 0 | 2 |
|         |                           |              | T4                | 6171                          | 111              | 1 | 0 | 2 | 6110                          | 109              | 1 | 0 | 2 | 5245                          | 94               | 1 | 0 | 2 |
|         |                           |              | T5R               | 6283                          | 113              | 3 | 0 | 3 | 6221                          | 111              | 3 | 0 | 3 | 5341                          | 96               | 3 | 0 | 3 |
|         |                           |              | 5X5               | 6063                          | 110              | 3 | 0 | 1 | 6002                          | 109              | 3 | 0 | 1 | 5153                          | 94               | 3 | 0 | 1 |
|         |                           |              | 2X2               | 6573                          | 118              | 4 | 0 | 1 | 6508                          | 117              | 4 | 0 | 1 | 5587                          | 100              | 4 | 0 | 1 |
| 36      | 700mA                     | 80w          | T2                | 8505                          | 101              | 2 | 0 | 3 | 8415                          | 100              | 2 | 0 | 3 | 7224                          | 87               | 2 | 0 | 2 |
|         |                           |              | T3                | 8415                          | 100              | 2 | 0 | 2 | 8331                          | 99               | 2 | 0 | 2 | 7175                          | 86               | 2 | 0 | 2 |
|         |                           |              | T4                | 9256                          | 110              | 1 | 0 | 3 | 9164                          | 109              | 1 | 0 | 3 | 7868                          | 94               | 1 | 0 | 3 |
|         |                           |              | T5R               | 9425                          | 112              | 3 | 0 | 3 | 9331                          | 111              | 3 | 0 | 3 | 8011                          | 96               | 3 | 0 | 3 |
|         |                           |              | 5X5               | 9094                          | 109              | 4 | 0 | 1 | 9003                          | 108              | 4 | 0 | 1 | 7730                          | 93               | 3 | 0 | 1 |
|         |                           |              | 2X2               | 9860                          | 118              | 4 | 0 | 1 | 9762                          | 116              | 4 | 0 | 1 | 8381                          | 100              | 4 | 0 | 1 |
| 48      | 700mA                     | 110w         | T2                | 11332                         | 102              | 3 | 0 | 3 | 11220                         | 101              | 3 | 0 | 3 | 9633                          | 87               | 2 | 0 | 3 |
|         |                           |              | T3                | 11220                         | 101              | 2 | 0 | 3 | 11108                         | 100              | 2 | 0 | 3 | 9567                          | 86               | 2 | 0 | 3 |
|         |                           |              | T4                | 12342                         | 111              | 2 | 0 | 3 | 12219                         | 110              | 2 | 0 | 3 | 10491                         | 95               | 2 | 0 | 3 |
|         |                           |              | T5R               | 12567                         | 113              | 4 | 0 | 4 | 12441                         | 112              | 4 | 0 | 4 | 10682                         | 96               | 3 | 0 | 3 |
|         |                           |              | 5X5               | 12126                         | 109              | 4 | 0 | 1 | 12004                         | 108              | 4 | 0 | 1 | 10307                         | 93               | 4 | 0 | 1 |
|         |                           |              | 2X2               | 13147                         | 118              | 5 | 0 | 1 | 13016                         | 117              | 5 | 0 | 1 | 11175                         | 101              | 5 | 0 | 1 |
| 60      | 700mA                     | 136w         | T2                | 14165                         | 103              | 3 | 0 | 3 | 14025                         | 102              | 3 | 0 | 3 | 12041                         | 88               | 3 | 0 | 3 |
|         |                           |              | T3                | 14025                         | 102              | 3 | 0 | 3 | 13885                         | 101              | 3 | 0 | 3 | 11959                         | 87               | 3 | 0 | 3 |
|         |                           |              | T4                | 15427                         | 113              | 2 | 0 | 3 | 15274                         | 111              | 2 | 0 | 3 | 13114                         | 96               | 2 | 0 | 3 |
|         |                           |              | T5R               | 15708                         | 115              | 4 | 0 | 4 | 15259                         | 111              | 4 | 0 | 4 | 13352                         | 97               | 4 | 0 | 4 |
|         |                           |              | 5X5               | 15157                         | 111              | 4 | 0 | 1 | 15006                         | 110              | 4 | 0 | 1 | 12884                         | 94               | 4 | 0 | 1 |
|         |                           |              | 2X2               | 16434                         | 120              | 5 | 0 | 2 | 16269                         | 119              | 5 | 0 | 2 | 13968                         | 102              | 5 | 0 | 1 |

<sup>1</sup>Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

## PROJECTED LUMEN MAINTENANCE

| AMBIENT TEMP. | 0    | 25,000 | 50,000 | TM-21-11<br>60,000 | 100,000 | Calculated L70<br>(HOURS) |
|---------------|------|--------|--------|--------------------|---------|---------------------------|
| 25°C / 77°F   | 1.00 | 0.97   | 0.96   | 0.95               | 0.93    | >560,000                  |

<sup>1</sup> Projected per IESNA TM-21-11

Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## ELECTRICAL DATA

| # OF LEDS | NUMBER OF DRIVERS | DRIVE CURRENT (mA) | INPUT VOLTAGE (V) | OPER. CURRENT (Amps) | SYSTEM POWER (Watts) |
|-----------|-------------------|--------------------|-------------------|----------------------|----------------------|
| 24        | 1                 | (350mA)            | 120               | 0.23                 | 27.0                 |
|           |                   |                    | 277               | 0.10                 |                      |
| 24        | 2                 | (700mA)            | 120               | 0.46                 | 55.0                 |
|           |                   |                    | 277               | 0.20                 |                      |
| 36        | 1                 | (700mA)            | 120               | 0.68                 | 80.0                 |
|           |                   |                    | 277               | 0.30                 |                      |
| 48        | 1                 | (700mA)            | 120               | 0.92                 | 110.0                |
|           |                   |                    | 277               | 0.40                 |                      |
| 60        | 1                 | (700mA)            | 120               | 1.13                 | 136.0                |
|           |                   |                    | 277               | 0.49                 |                      |

| AMBIENT TEMPERATURE |       | LUMEN MULTIPLIER |
|---------------------|-------|------------------|
| 0°C                 | 32°F  | 1.02             |
| 10°C                | 50°F  | 1.01             |
| 20°C                | 68°F  | 1.00             |
| 25°C                | 77°F  | 1.00             |
| 30°C                | 86°F  | 1.00             |
| 40°C                | 104°F | 0.99             |
| 50°C                | 122°F | 0.98             |

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

# VIPER S

SMALL VIPER LUMINAIRE

## FEATURES

- Small size companion to Viper Large
- Wide choice of different LED wattage configurations
- Nine optical distributions
- Designed to replace HID lighting up to 400W MH or HPS
- Suitable for wet locations



\*3000K and warmer CCTs only



See Certification Specifications

## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B117 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- IFS polyester powder-coat electrostatically applied and thermocured. IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3,000-hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds
- External hardware is corrosion resistant

### OPTICS

- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one-piece optical system
- One-piece silicone gasket ensures a weatherproof seal around each individual optic
- One-piece optical cartridge system consisting of an LED engine, optics, gasket and stainless steel bezel

### INSTALLATION

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included

### ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (UNV)

### ELECTRICAL (CONTINUED)

- Power factor is  $\geq .90$  at full load
- Dimming drivers are standard, but CD must be selected in options to obtain external wiring leads for dimming controls
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only
- Fixture electrical compartment contains all LED driver components
- Optional 7-pin ANSI C136.41-2013 Twist-Lock® photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices
- Ambient operating temperature -40°C to 25°C
- Surge protection: 20kA
- Lifeshield™ Circuit ([see Electrical Data](#))

### CONTROLS

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from standard configuration
- Available with [Energent](#) for optional set dimming, timed dimming with simple delay, or timed dimming based on time of night

## OPTICS STRIKE



## RELATED PRODUCTS

[Viper Large](#)

### CONTROLS (CONTINUED)

- In addition, Viper can be specified with [SiteSync™ wireless control system](#) for reduction in energy and maintenance costs while optimizing light quality 24/7

### CERTIFICATIONS

- DLC® (DesignLights Consortium) Qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- Certified to UL 1598 and UL 8750
- 3G rated for ANSI C136.31 high vibration applications with MAF mounting
- IDA approved
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#).

### WARRANTY

- 5 year warranty
- See [HLI Commercial and Industrial Outdoor Lighting Warranty](#) for additional information

| KEY DATA                   |              |
|----------------------------|--------------|
| Lumen Range                | 4,045–16,216 |
| Wattage Range              | 39–136       |
| Efficacy Range (LPW)       | 100–124      |
| Reported Life (Hours)      | L70>60,000   |
| Input Current Range (Amps) | 0.1–1.1      |



# VIPER S

SMALL VIPER LUMINAIRE

## ORDERING GUIDE

|            |           |
|------------|-----------|
| DATE:      | LOCATION: |
| TYPE:      | PROJECT:  |
| CATALOG #: |           |

Example: VPS-24L-55-4K7-4W-UNV-A-DBT-TL-GENI-04-BC

|           |
|-----------|
| CATALOG # |
|-----------|

| VPS             | LED Engine                                                                                                                                                                                       | CCT/CRI <sup>7</sup>                                                             | Distribution                                                                                                                                                                                                                                                                                        | Rotation                                                                                                            | Voltage                                                   |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Series</b>   |                                                                                                                                                                                                  |                                                                                  |                                                                                                                                                                                                                                                                                                     |                                                                                                                     |                                                           |
| VPS Viper Small | <b>24L-39</b> 39W, LED array<br><b>24L-55</b> 55W, LED array<br><b>36L-65</b> 65W, LED array<br><b>36L-80</b> 80W, LED array<br><b>48L-110</b> 110W, LED array<br><b>60L-136</b> 136W, LED array | <b>3K7</b> 3000K, 70 CRI<br><b>4K7</b> 4000K, 70 CRI<br><b>5K7</b> 5000K, 70 CRI | <b>FR</b> Type 1/Front Row<br><b>2</b> Type 2<br><b>3</b> Type 3<br><b>4F (formerly 4)</b> Type 4<br><b>4W</b> Type 4 Wide<br><b>5QM</b> Type 5QM<br><b>5R</b> Type 5R (rectangular)<br><b>5W</b> Type 5W (round wide)<br><b>TC</b> Tennis Court<br><b>CR</b> Corner Right<br><b>CL</b> Corner Left | <b>Blank</b> No rotation<br><b>L</b> Optic rotation left <sup>5</sup><br><b>R</b> Optic rotation right <sup>5</sup> | <b>UNV</b> 120-277V<br><b>347</b> 347V<br><b>480</b> 480V |

| Mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Color                                                                                                                                                                                                                                                                                                                                                                                                                    | Control Options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Options                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>A</b> Rectangular Arm (formerly RA) for square or round pole<br><b>MAF</b> Mast Arm Fitter (formerly SF2) for 2 3/8" OD horizontal arm<br><b>K</b> Knuckle (formerly PK2) limit to 30° tilt or 2 3/8" OD horizontal arm or vertical tenon<br><b>WB</b> Wall Bracket<br><b>AD</b> Universal Arm for square pole<br><b>AD3</b> Adapter for 2.4"-4.1" round pole<br><b>AD4</b> Adapter for 4.2"-5.3" round pole<br><b>AD5</b> Adapter for 5.5"-5.9" round pole<br><b>AD6</b> Adapter for 6.0"-6.5" round pole | <b>BLT</b> Black Matte Textured<br><b>BLS</b> Black Gloss Smooth<br><b>DBT</b> Dark Bronze Matte Textured<br><b>DBS</b> Dark Bronze Gloss Smooth<br><b>GTT</b> Graphite Matte Textured<br><b>LGS</b> Light Grey Gloss Smooth<br><b>PSS</b> Platinum Silver Smooth<br><b>WHT</b> White Matte Textured<br><b>WHS</b> White Gloss Smooth<br><b>VG</b> Verde Green Textured<br><b>Color Option</b><br><b>CC</b> Custom Color | <b>NXWE</b> NX Wireless Enabled (module + radio)<br><b>NXSPW_E</b> Nx Wireless, PIR Occ. Sensor, Daylight Harvesting <sup>2</sup><br><b>NXSP_F</b> NX, PIR Occ. Sensor, Daylight Harvesting <sup>2</sup><br><b>WIR</b> Wireless Controls, wiSCAPE<br><b>Control Options</b><br><b>7PR</b> 7-Pin Receptacle only (shorting cap, photo control, or wireless control provided by others)<br><b>7PR-SC</b> 7-Pin Receptacle w/Shorting Cap<br><b>7PR-TL</b> 7-Pin Receptacle w/Twist-Lock® photo control<br><b>SCP/_F</b> Programmable Occupancy Sensor w/ daylight control <sup>1,2,6</sup><br><b>GENI-XX</b> ENERGENI <sup>3</sup><br><b>SWP</b> SiteSync Pre-Commission <sup>1,4</sup><br><b>SWPM_F</b> SiteSync Pre-Commission w/ Sensor <sup>1,2,4</sup> | <b>BC</b> Backshield (available for FR, 2, 3, 4, 4W Optics)<br><b>CD</b> Continuous Dimming<br><b>F</b> Fusing<br><b>TB</b> Terminal Block |

### House Side Shield Accessories

- ☐ **HSS/VP-S/90-FB/XXX** 90° shield front or back
- ☐ **HSS/VP-S/90-LR/XXX** 90° shield left or right
- ☐ **HSS/VP-S/270-FB/XXX** 270° shield front or back
- ☐ **HSS/VP-S/270-LR/XXX** 270° shield left or right
- ☐ **HSS/VP-S/360/XXX** Full shield

Replace XXX with notation for desired finish color. Refer to page 8 for shield images.

### Mounting Accessories

- ☐ **VPL-AD-RPA3** 2.4"-4.1" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA4** 4.2"-5.3" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA5** 5.5"-5.9" Round Pole Adapter for AD arm
- ☐ **VPL-AD-RPA6** 6.0"-6.5" Round Pole Adapter for AD arm

### Notes:

- Not available with other wireless control or sensor options
- Specify mounting height; 8 = 8' or less, 40 = 9' to 40'
- Specify routine setting code (example GENI-04). See [ENERGENI brochure](#) and [instructions](#) for setting table and options. Not available with sensor or SiteSync options
- Specify group and zone at time of order. See [www.hubbellighting.com/sitesync](#) for further details. Order at least one SiteSync interface accessory SWUSB or SWTAB. Each option contains SiteSync License, GUI, and Bridge Node
- Only available with FR, 2, 3, 4, 4W and 5R distributions
- Order at least one SCP-REMOTE per project location to program and control the occupancy sensor

### Accessories and Services (Ordered Separately)

- ☐ **SCP-REMOTE** Remote Control for SCP/\_F option. Order at least one per project to program and control the occupancy sensor
- ☐ **SWUSB\*** SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node
- ☐ **SWTAB\*** Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node
- ☐ **SWBRG** SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested
- ☐ **SW7PR+** SiteSync 7-Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC
- ☐ **BIRD-SPIKE-3** Bird Spikes

\* When ordering SiteSync at least one of these two interface options must be ordered per project.  
+ Available as a SiteSync retrofit solution for fixtures with an existing 7-pin receptacle.

### Hubbell Control Solutions — Accessories (Sold Separately)

#### NX Distributed Intelligence™

- ☐ **NXOFM-1R1D-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC

#### wiSCAPE® Lighting Control

- ☐ **WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC

For additional information related to these accessories please visit [www.hubbellcontrolsolutions.com](#). Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

# VIPER S

SMALL VIPER LUMINAIRE

## CONTROLS

### SiteSync — Precommissioned Ordering Information:

When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [the SiteSync family page on our website](#) or contact Hubbell Lighting tech support at 864-678-1000.



SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: VP-L/80L-235/4K7/3/UNV/A/DB/SWP/  
VP-L/80L-235/4K7/3/UNV/A/DB/SWPM-40F/

SiteSync only  
SiteSync with Motion Control

### SiteSync 7-Pin Module:

- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does not interface with occupancy sensors



SW7PR

### NX Distributed Intelligence™ Lighting Controls:

Supports both indoor and outdoor applications in a variety of deployment options: wired, wireless and hybrid. Integrates with and enables a wide array of luminaires including those with SpectraSync Color Tuning Technology.



| NX Integrated Controls Reference |        |             |            |           |                     |               |                |                            |
|----------------------------------|--------|-------------|------------|-----------|---------------------|---------------|----------------|----------------------------|
| NX Option                        | Sensor | Networkable | Scheduling | Occupancy | Daylight Harvesting | 0-10V Dimming | On/off Control | Bluetooth® App Programming |
| <b>NX Networked – Wireless</b>   |        |             |            |           |                     |               |                |                            |
| <a href="#">NXOFM-1R1D-UNV</a>   | SCLNX  | Yes         | Yes        | Yes       | Yes                 | Yes           | Yes            | Yes, Bluetooth App         |

### wiSCAPE™:

Supports remote management, monitoring and metering of outdoor wireless lighting applications such as smart campuses, smart cities, parking lots, parking lots and roadways.



| wiSCAPE Reference           |           |             |            |           |                     |               |                |                            |
|-----------------------------|-----------|-------------|------------|-----------|---------------------|---------------|----------------|----------------------------|
| wiSCAPE Option              | Sensor    | Networkable | Scheduling | Occupancy | Daylight Harvesting | 0-10V Dimming | On/off Control | Bluetooth® App Programming |
| <b>Networked – Wireless</b> |           |             |            |           |                     |               |                |                            |
| <a href="#">WIR-RME-L</a>   | WIR-RME-L | Yes         | Yes        | No        | Yes                 | Yes           | Yes            | wiSCAPE Gateway            |

# VIPER S

SMALL VIPER LUMINAIRE

## DELIVERED LUMENS

| # of LEDs | DRIVE CURRENT (mA) | SYSTEM WATTS | DISTRIBUTION TYPE | 5K<br>(5000K nominal, 70 CRI) |     |   |   |   | 4K<br>(4000K nominal, 70 CRI) |     |   |   |   | 3K<br>(3000K nominal, 70 CRI) |     |   |   |   |
|-----------|--------------------|--------------|-------------------|-------------------------------|-----|---|---|---|-------------------------------|-----|---|---|---|-------------------------------|-----|---|---|---|
|           |                    |              |                   | LUMENS                        | LPW | B | U | G | LUMENS                        | LPW | B | U | G | LUMENS                        | LPW | B | U | G |
| 24        | 500mA              | 39W          | FR                | 4689                          | 120 | 1 | 0 | 0 | 4665                          | 120 | 1 | 0 | 0 | 4432                          | 114 | 1 | 0 | 0 |
|           |                    |              | 2                 | 4523                          | 116 | 1 | 0 | 1 | 4500                          | 115 | 1 | 0 | 1 | 4275                          | 110 | 1 | 0 | 1 |
|           |                    |              | 3                 | 4436                          | 114 | 1 | 0 | 1 | 4414                          | 113 | 1 | 0 | 1 | 4194                          | 108 | 1 | 0 | 1 |
|           |                    |              | 4F                | 4362                          | 112 | 1 | 0 | 2 | 4340                          | 111 | 1 | 0 | 2 | 4123                          | 106 | 0 | 0 | 2 |
|           |                    |              | 4W                | 4280                          | 110 | 1 | 0 | 2 | 4258                          | 109 | 1 | 0 | 2 | 4045                          | 104 | 1 | 0 | 2 |
|           |                    |              | 5QM               | 4442                          | 114 | 2 | 0 | 1 | 4420                          | 113 | 2 | 0 | 1 | 4199                          | 108 | 2 | 0 | 0 |
|           |                    |              | 5R                | 4472                          | 115 | 2 | 0 | 2 | 4450                          | 114 | 2 | 0 | 2 | 4227                          | 108 | 2 | 0 | 2 |
|           |                    |              | 5W                | 4335                          | 112 | 3 | 0 | 1 | 4336                          | 111 | 3 | 0 | 1 | 4114                          | 105 | 3 | 0 | 1 |
|           |                    |              | TC                | 4561                          | 117 | 1 | 0 | 1 | 4538                          | 116 | 1 | 0 | 1 | 4311                          | 111 | 1 | 0 | 1 |
|           |                    |              | CL                | 4758                          | 122 | 1 | 0 | 2 | 4758                          | 122 | 1 | 0 | 2 | 4329                          | 111 | 1 | 0 | 1 |
| 24        | 700 mA             | 55W          | CR                | 4773                          | 122 | 1 | 0 | 2 | 4773                          | 122 | 1 | 0 | 2 | 4361                          | 112 | 1 | 0 | 1 |
|           |                    |              | FR                | 6357                          | 118 | 1 | 0 | 1 | 6486                          | 120 | 1 | 0 | 1 | 5804                          | 107 | 1 | 0 | 1 |
|           |                    |              | 2                 | 6132                          | 114 | 1 | 0 | 1 | 6257                          | 116 | 1 | 0 | 2 | 5599                          | 104 | 1 | 0 | 1 |
|           |                    |              | 3                 | 6015                          | 111 | 1 | 0 | 2 | 6137                          | 114 | 1 | 0 | 2 | 5492                          | 102 | 1 | 0 | 2 |
|           |                    |              | 4F                | 5921                          | 110 | 1 | 0 | 2 | 6034                          | 112 | 1 | 0 | 2 | 5400                          | 100 | 1 | 0 | 2 |
|           |                    |              | 4W                | 5793                          | 108 | 1 | 0 | 2 | 5909                          | 110 | 1 | 0 | 2 | 5272                          | 98  | 1 | 0 | 2 |
|           |                    |              | 5QM               | 6022                          | 112 | 2 | 0 | 1 | 6145                          | 114 | 2 | 0 | 1 | 5499                          | 102 | 2 | 0 | 1 |
|           |                    |              | 5R                | 6063                          | 112 | 3 | 0 | 3 | 6187                          | 115 | 3 | 0 | 3 | 5536                          | 103 | 3 | 0 | 3 |
|           |                    |              | 5W                | 5908                          | 109 | 3 | 0 | 1 | 6028                          | 112 | 3 | 0 | 1 | 5908                          | 102 | 3 | 0 | 1 |
|           |                    |              | TC                | 6183                          | 113 | 1 | 0 | 1 | 6309                          | 118 | 1 | 0 | 1 | 5645                          | 105 | 1 | 0 | 1 |
| 36        | 560 mA             | 65W          | CL                | 6707                          | 122 | 1 | 0 | 2 | 6707                          | 122 | 1 | 0 | 2 | 6117                          | 111 | 1 | 0 | 2 |
|           |                    |              | CR                | 6729                          | 122 | 1 | 0 | 2 | 6729                          | 122 | 1 | 0 | 2 | 6143                          | 112 | 1 | 0 | 2 |
|           |                    |              | FR                | 7864                          | 121 | 1 | 0 | 1 | 8041                          | 124 | 1 | 0 | 1 | 7189                          | 111 | 1 | 0 | 1 |
|           |                    |              | 2                 | 7586                          | 117 | 1 | 0 | 2 | 7757                          | 119 | 1 | 0 | 2 | 6934                          | 107 | 1 | 0 | 2 |
|           |                    |              | 3                 | 7441                          | 114 | 1 | 0 | 2 | 7609                          | 117 | 1 | 0 | 2 | 6802                          | 105 | 1 | 0 | 2 |
|           |                    |              | 4F                | 7317                          | 110 | 1 | 0 | 2 | 7482                          | 112 | 1 | 0 | 2 | 6688                          | 100 | 1 | 0 | 2 |
|           |                    |              | 4W                | 8690                          | 108 | 1 | 0 | 2 | 8864                          | 110 | 1 | 0 | 2 | 7908                          | 98  | 1 | 0 | 2 |
|           |                    |              | 5QM               | 7450                          | 115 | 3 | 0 | 1 | 7618                          | 117 | 3 | 0 | 1 | 6810                          | 105 | 3 | 0 | 1 |
|           |                    |              | 5R                | 7501                          | 115 | 3 | 0 | 3 | 7670                          | 118 | 3 | 0 | 3 | 6857                          | 105 | 3 | 0 | 3 |
|           |                    |              | 5W                | 7309                          | 112 | 3 | 0 | 2 | 7473                          | 115 | 3 | 0 | 2 | 6681                          | 103 | 3 | 0 | 1 |
| 36        | 700 mA             | 80W          | TC                | 7540                          | 116 | 1 | 0 | 1 | 7694                          | 118 | 1 | 0 | 1 | 7694                          | 122 | 1 | 0 | 2 |
|           |                    |              | CL                | 8179                          | 126 | 2 | 0 | 2 | 8179                          | 126 | 2 | 0 | 2 | 7467                          | 115 | 1 | 0 | 2 |
|           |                    |              | CR                | 8205                          | 126 | 2 | 0 | 2 | 8205                          | 126 | 2 | 0 | 2 | 7492                          | 115 | 1 | 0 | 2 |
|           |                    |              | FR                | 9535                          | 118 | 1 | 0 | 1 | 9730                          | 120 | 1 | 0 | 1 | 8706                          | 107 | 1 | 0 | 1 |
|           |                    |              | 2                 | 9197                          | 114 | 1 | 0 | 2 | 9385                          | 116 | 1 | 0 | 2 | 8398                          | 104 | 1 | 0 | 2 |
|           |                    |              | 3                 | 9022                          | 111 | 1 | 0 | 2 | 9206                          | 114 | 1 | 0 | 2 | 8238                          | 102 | 1 | 0 | 2 |
|           |                    |              | 4F                | 8871                          | 110 | 1 | 0 | 2 | 9052                          | 112 | 1 | 0 | 2 | 8100                          | 100 | 1 | 0 | 2 |
|           |                    |              | 4W                | 11587                         | 108 | 1 | 0 | 3 | 11819                         | 110 | 1 | 0 | 3 | 10544                         | 98  | 1 | 0 | 3 |
|           |                    |              | 5QM               | 9033                          | 112 | 3 | 0 | 1 | 9217                          | 114 | 3 | 0 | 1 | 8248                          | 102 | 3 | 0 | 1 |
|           |                    |              | 5R                | 9095                          | 112 | 3 | 0 | 3 | 9280                          | 115 | 3 | 0 | 3 | 8304                          | 103 | 3 | 0 | 3 |
| 48        | 700 mA             | 110W         | 5W                | 8861                          | 109 | 3 | 0 | 2 | 9043                          | 112 | 3 | 0 | 2 | 8092                          | 100 | 3 | 0 | 2 |
|           |                    |              | TC                | 9275                          | 115 | 1 | 0 | 1 | 9464                          | 118 | 1 | 0 | 1 | 8468                          | 105 | 1 | 0 | 1 |
|           |                    |              | CL                | 10060                         | 126 | 2 | 0 | 2 | 10060                         | 126 | 2 | 0 | 2 | 9184                          | 115 | 2 | 0 | 2 |
|           |                    |              | CR                | 10093                         | 126 | 2 | 0 | 2 | 10093                         | 126 | 2 | 0 | 2 | 9215                          | 115 | 2 | 0 | 2 |
|           |                    |              | FR                | 12713                         | 118 | 1 | 0 | 1 | 12973                         | 120 | 2 | 0 | 1 | 11608                         | 107 | 1 | 0 | 1 |
|           |                    |              | 2                 | 12263                         | 114 | 2 | 0 | 2 | 12513                         | 116 | 2 | 0 | 2 | 11197                         | 104 | 2 | 0 | 2 |
|           |                    |              | 3                 | 12029                         | 111 | 2 | 0 | 2 | 12275                         | 114 | 2 | 0 | 2 | 10984                         | 102 | 1 | 0 | 2 |
|           |                    |              | 4F                | 11828                         | 110 | 1 | 0 | 3 | 12069                         | 112 | 1 | 0 | 3 | 10800                         | 100 | 1 | 0 | 2 |
|           |                    |              | 4W                | 11609                         | 108 | 1 | 0 | 3 | 11841                         | 110 | 1 | 0 | 3 | 10564                         | 98  | 1 | 0 | 3 |
|           |                    |              | 5QM               | 12044                         | 112 | 3 | 0 | 2 | 12290                         | 114 | 3 | 0 | 2 | 10997                         | 102 | 3 | 0 | 1 |
| 60        | 700 mA             | 136W         | 5R                | 12126                         | 112 | 3 | 0 | 3 | 12374                         | 115 | 3 | 0 | 3 | 11072                         | 103 | 3 | 0 | 3 |
|           |                    |              | 5W                | 12126                         | 109 | 4 | 0 | 2 | 12057                         | 112 | 4 | 0 | 2 | 10789                         | 100 | 4 | 0 | 2 |
|           |                    |              | RC                | 12366                         | 115 | 1 | 0 | 2 | 12619                         | 118 | 1 | 0 | 1 | 11290                         | 105 | 1 | 0 | 2 |
|           |                    |              | CL                | 13414                         | 122 | 2 | 0 | 3 | 13414                         | 122 | 2 | 0 | 3 | 12246                         | 111 | 2 | 0 | 2 |
|           |                    |              | CR                | 13458                         | 122 | 2 | 0 | 3 | 13458                         | 122 | 2 | 0 | 3 | 12287                         | 112 | 2 | 0 | 2 |
|           |                    |              | FR                | 15891                         | 117 | 2 | 0 | 2 | 16216                         | 120 | 2 | 0 | 2 | 14511                         | 107 | 2 | 0 | 1 |
|           |                    |              | 2                 | 15329                         | 113 | 2 | 0 | 2 | 15642                         | 116 | 2 | 0 | 2 | 13997                         | 103 | 2 | 0 | 2 |
|           |                    |              | 3                 | 15037                         | 111 | 2 | 0 | 3 | 15344                         | 113 | 2 | 0 | 3 | 13730                         | 101 | 2 | 0 | 3 |
|           |                    |              | 4F                | 14784                         | 109 | 1 | 0 | 3 | 15086                         | 111 | 1 | 0 | 3 | 13500                         | 100 | 1 | 0 | 3 |
|           |                    |              | 4W                | 14802                         | 109 | 2 | 0 | 3 | 15104                         | 112 | 2 | 0 | 3 | 13515                         | 100 | 2 | 0 | 3 |

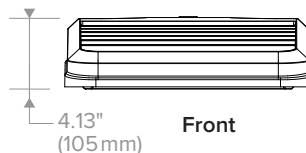
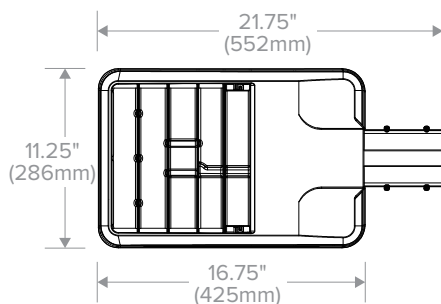


# VIPER S

SMALL VIPER LUMINAIRE

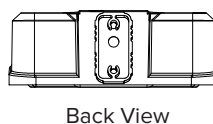
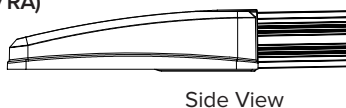
DATE: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TYPE: \_\_\_\_\_ PROJECT: \_\_\_\_\_  
 CATALOG #: \_\_\_\_\_

## DIMENSIONS

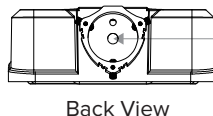
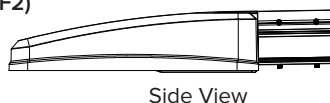


|        |                      |
|--------|----------------------|
| Weight | 15.0 lbs<br>(6.8 kg) |
| EPA    | .67 ft <sup>2</sup>  |

### A Arm (formerly RA)

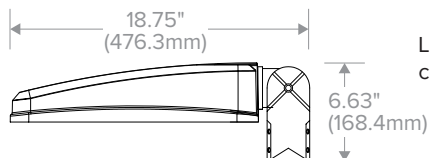


### MAF (formerly SF2)



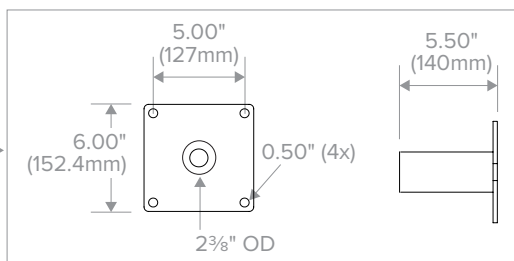
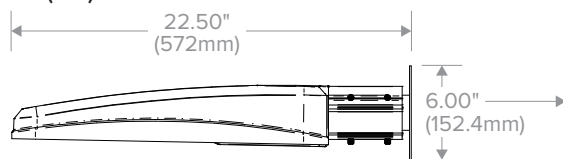
Accepts 2 3/8" OD tenon, min 5" long.

### 2 3/8" Adjustable Knuckle (K) (formerly PK2)

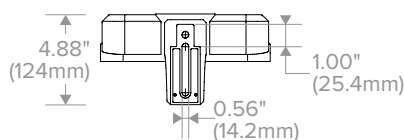
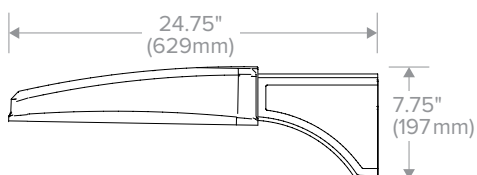


Limit to 30° tilt. Sensor, photocell and wireless controls should not be tilted above horizontal.

### Wall Bracket (WB)



### AD Decorative Arm



See [page 9](#) for mounting details.



SlimSurface is a 5/8" thick LED surface mounted luminaire with the appearance of a recessed downlight. Easy to install into most standard j-boxes, the SlimSurface round apertures are available as a 5" 650lm, 7" 1000lm and 10" 2200lm fixture.

Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

## Ordering guide

example: S5R830K7AL

| Series                                  | CRI                       | CCT       | Lumens    | Finish      | Dimming                                            |
|-----------------------------------------|---------------------------|-----------|-----------|-------------|----------------------------------------------------|
| S5R SlimSurface 5" Round                | 8 80<br>9 90 <sup>1</sup> | 27K 2700K | 7 650lm   | — White     | blank ELV / Triac (120V)                           |
|                                         |                           | 30K 3000K |           | AL Aluminum |                                                    |
|                                         |                           | 35K 3500K |           | BK Black    |                                                    |
|                                         |                           | 40K 4000K |           | W White     |                                                    |
| S7R SlimSurface 7" Round                | 8 80<br>9 90 <sup>1</sup> | 27K 2700K | 10 1000lm | AL Aluminum | Z10U 0-10V (120V-277V)                             |
|                                         |                           | 30K 3000K |           | BK Black    |                                                    |
|                                         |                           | 35K 3500K |           | W White     |                                                    |
|                                         |                           | 40K 4000K |           | AL Aluminum |                                                    |
| S10R SlimSurface 10" Round <sup>2</sup> | 8 80<br>9 90 <sup>1</sup> | 27K 2700K | 22 2200lm | BK Black    | blank ELV / Triac (120V)<br>Z10U 0-10V (120V-277V) |
|                                         |                           | 30K 3000K |           | W White     |                                                    |
|                                         |                           | 35K 3500K |           | AL Aluminum |                                                    |
|                                         |                           | 40K 4000K |           | BK Black    |                                                    |
|                                         |                           |           |           | MT Metallic |                                                    |

1. Configurations using 90 CRI are only available with 2700K & 3000K CCT.

2. SlimSurface LED 10" round installs into 4-11/16" J-box (not wet location listed).



## Features

- Flange:** One piece plastic flange. Injection molded white, applied aluminum or black.
- Lens:** High transmittance lens allowing for smooth, comfortable light pattern.
- Power supply:** Integral class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications)
- LED Strip:** Utilizes LEDs.
- Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty\*
- Compliance:** Non-conductive fixture for shower light application (not applicable to metal trim model).

## Dimming

Intended for ELV/Triac (120V) or 0-10V dimming (120V-277V) based on the configuration. Min 90°C supply conductors.

## Electrical

**Electronic power supply:** RoHS compliant. Class 2 power unit. Unit tolerates sustained open and short circuit output conditions without damage.

| Electrical specifications | Dimming | Input volts | Input frequency | Input current | Input Power | THD Factor | Power Factor | Minimum Operating Temp. |
|---------------------------|---------|-------------|-----------------|---------------|-------------|------------|--------------|-------------------------|
| Slim 5" 650lm             | Triac   | 120V        | 50/60Hz         | 0.08A         | 9.5W        | <15%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.09A         | 10.1W       | <20%       | >0.9         | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.04A         | 10.2W       | <20%       | >0.9         | -20°C                   |
| Slim 7" 1000lm            | Triac   | 120V        | 50/60Hz         | 0.13A         | 14.2W       | <15%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.12A         | 14.4W       | <20%       | >0.9         | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.06A         | 14.7W       | <20%       | >0.9         | -20°C                   |
| Slim 10" 2200lm           | Triac   | 120V        | 50/60Hz         | 0.20A         | 23.2W       | <20%       | >0.9         | -20°C                   |
|                           | 0-10V   | 120V        | 50/60Hz         | 0.20A         | 23.2W       | <10%       | >0.95        | -20°C                   |
|                           |         | 277V        | 50/60Hz         | 0.09A         | 24.6W       | <15%       | >0.95        | -20°C                   |

For more details, please see LED-DIM-DL spec sheet.

\* See Philips.com/warranties for warranty details.

## Labels

cULus listed. ENERGY STAR® certified. All models are damp location rated for walls or ceilings. The 5" & 7" are suitable for ceiling mount wet locations when installed per instructions.

Manhattan 22" LED Wall Light Textured Black

49298BKTLED (Textured Black)

Project Name: \_\_\_\_\_  
Location: \_\_\_\_\_  
Type: \_\_\_\_\_  
Qty: \_\_\_\_\_  
Comments: \_\_\_\_\_



Certifications/Qualifications

|                                                                        |     |
|------------------------------------------------------------------------|-----|
| Location Rating                                                        | Wet |
| Title 24 Compliant                                                     | Yes |
| <a href="http://www.kichler.com/warranty">www.kichler.com/warranty</a> |     |

Dimensions

|                                                 |              |
|-------------------------------------------------|--------------|
| Base Backplate                                  | 21.75 X 6.75 |
| Extension                                       | 3.75"        |
| Weight                                          | 8.40 LBS     |
| Height from center of Wall opening (Spec Sheet) | 11.00"       |
| Height                                          | 22.00"       |
| Width                                           | 7.00"        |

Electrical

|               |              |
|---------------|--------------|
| Input Voltage | Single(120)V |
|---------------|--------------|

Mounting/Installation

|                   |          |
|-------------------|----------|
| Interior/Exterior | Exterior |
| Mounting Weight   | 4.80 LBS |

Photometrics

|                       |       |
|-----------------------|-------|
| Color Rendering Index | 90    |
| Delivered Lumens      | 550   |
| Kelvin Temperature    | 3000K |

Primary Lamping

|                        |            |
|------------------------|------------|
| Dimmable               | Yes        |
| Expected Life Span     | 40000      |
| Lamp Included          | Integrated |
| Light Source           | LED        |
| Max or Nominal Watt    | 20.5W      |
| # of Bulbs/LED Modules | 2          |

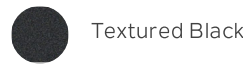
Product/Ordering Information

|        |              |
|--------|--------------|
| SKU    | 49298BKTLED  |
| Finish | Black        |
| Style  | Contemporary |
| UPC    | 783927541206 |

Specifications

|                      |             |
|----------------------|-------------|
| Diffuser Description | White Glass |
| Material             | ALUMINUM    |

Additional Finishes



Textured Black

Kichler

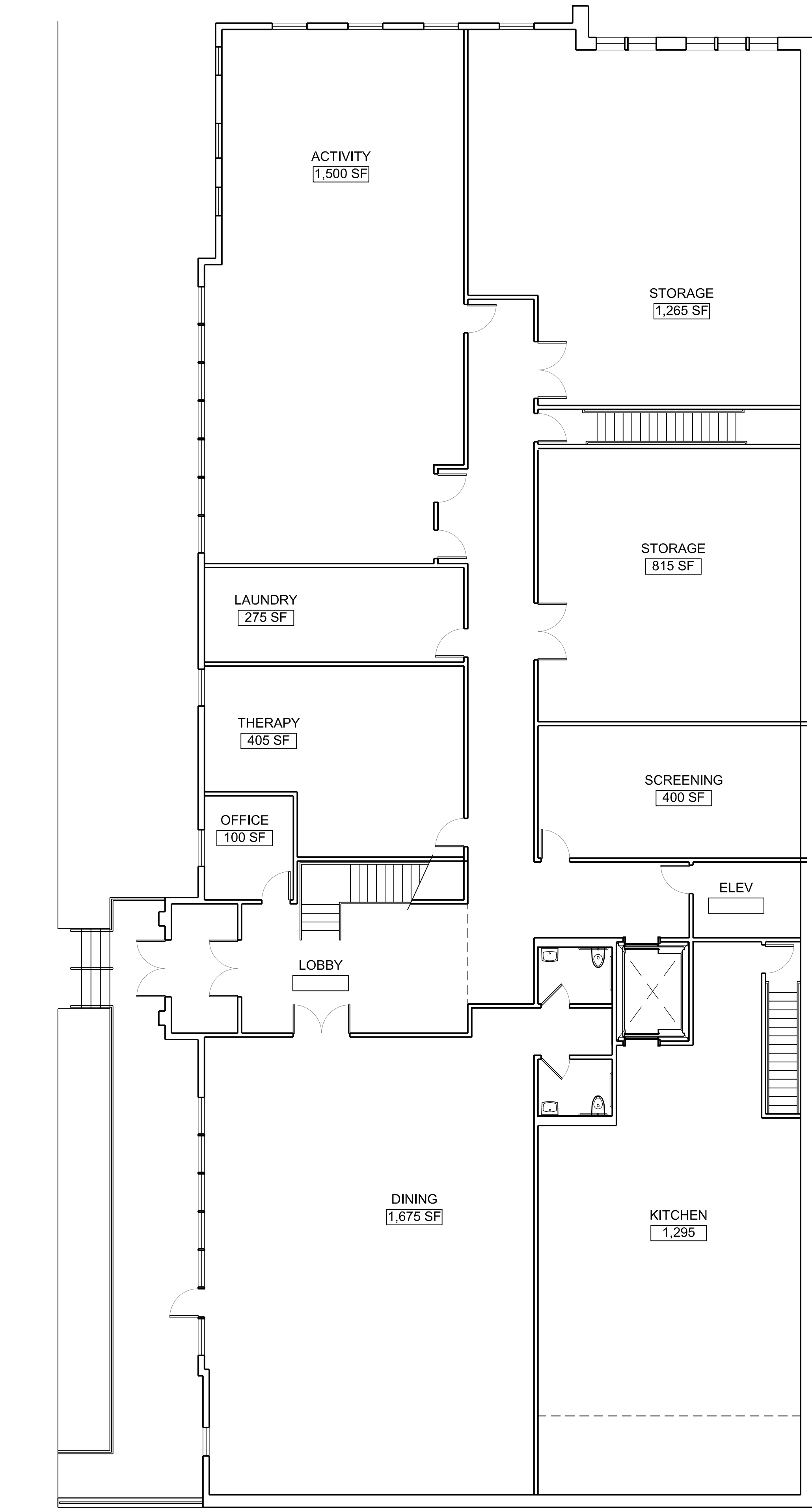
7711 East Pleasant Valley Road Cleveland, Ohio 44131-8010  
Toll free: 866.558.5706 or [kichler.com](http://kichler.com)

Notes:

1) Information provided is subject to change without notice.  
All values are design or typical values when measured under laboratory conditions.  
2) Incandescent Equivalent: The incandescent equivalent as presented is an approximate number and is for reference only.

KICHLER®





10 LEVEL 1 FLOOR PLAN

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



Smith Buckley Architects

431 Pine Street, Burlington, Vermont 05401  
(802) 540-0323

sbavt.com

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CIVIL ENGINEER:  
Vanasse Hangen Brustlin, Inc.  
40 IDX Drive  
Building 100, Suite 200  
South Burlington, VT 05403  
802-497-6100

BLACKROCK

RIVERSIDE AVE. SENIOR  
APARTMENTS

356 RIVERSIDE AVENUE, BURLINGTON, VT 05401

| REV<br>NUMBER                                        | REV<br>DATE | DESCRIPTION |
|------------------------------------------------------|-------------|-------------|
| ZONING PERMIT<br>DRAWINGS<br>NOT FOR<br>CONSTRUCTION |             |             |

LEVEL 1

FLOOR PLAN

SCALE: AS NOTED  
DATE: September 8, 2022

A101



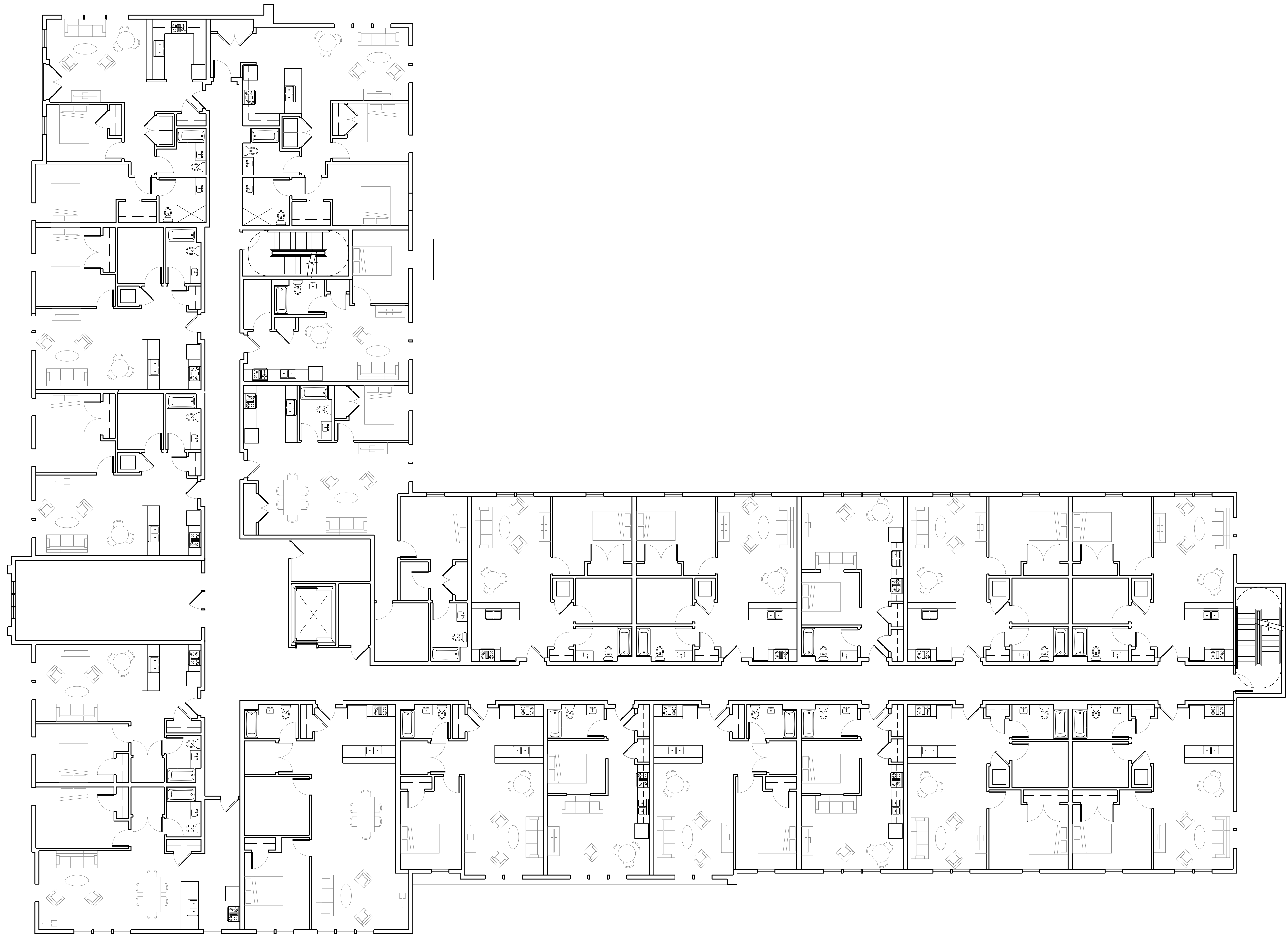


10 LEVEL 2 FLOOR PLAN

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

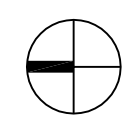






10 LEVEL 3 FLOOR PLAN

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



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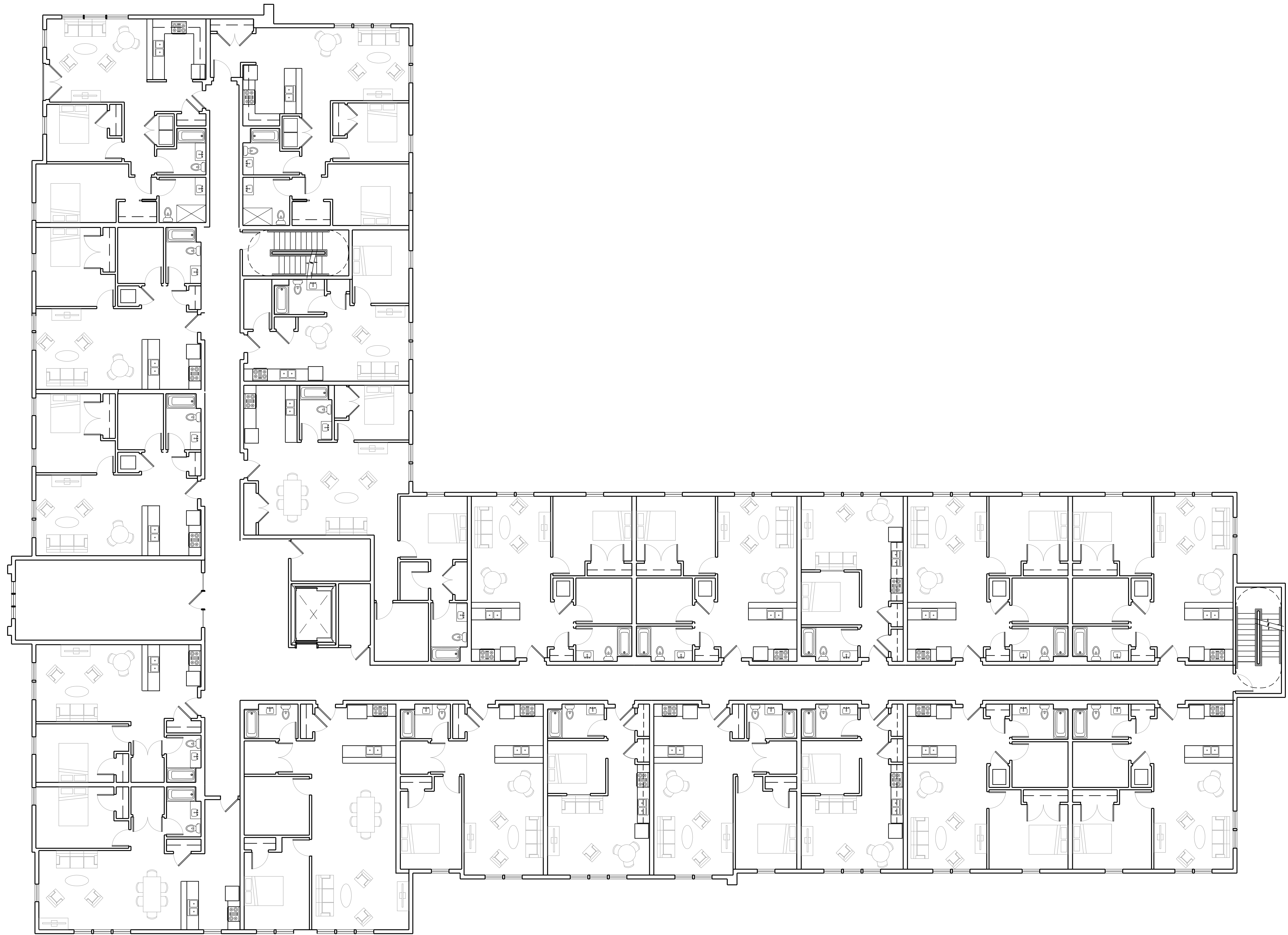
| REV NUMBER                                           | REV DATE | DESCRIPTION |
|------------------------------------------------------|----------|-------------|
| ZONING PERMIT<br>DRAWINGS<br>NOT FOR<br>CONSTRUCTION |          |             |

LEVEL 3  
FLOOR PLAN

SCALE: AS NOTED  
DATE: September 8, 2022

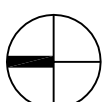
A103





10 LEVEL 4 FLOOR PLAN

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



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RIVERSIDE AVE. SENIOR  
APARTMENTS

356 RIVERSIDE AVENUE, BURLINGTON, VT 05401

| REV<br>NUMBER | REV<br>DATE | DESCRIPTION |
|---------------|-------------|-------------|
|---------------|-------------|-------------|

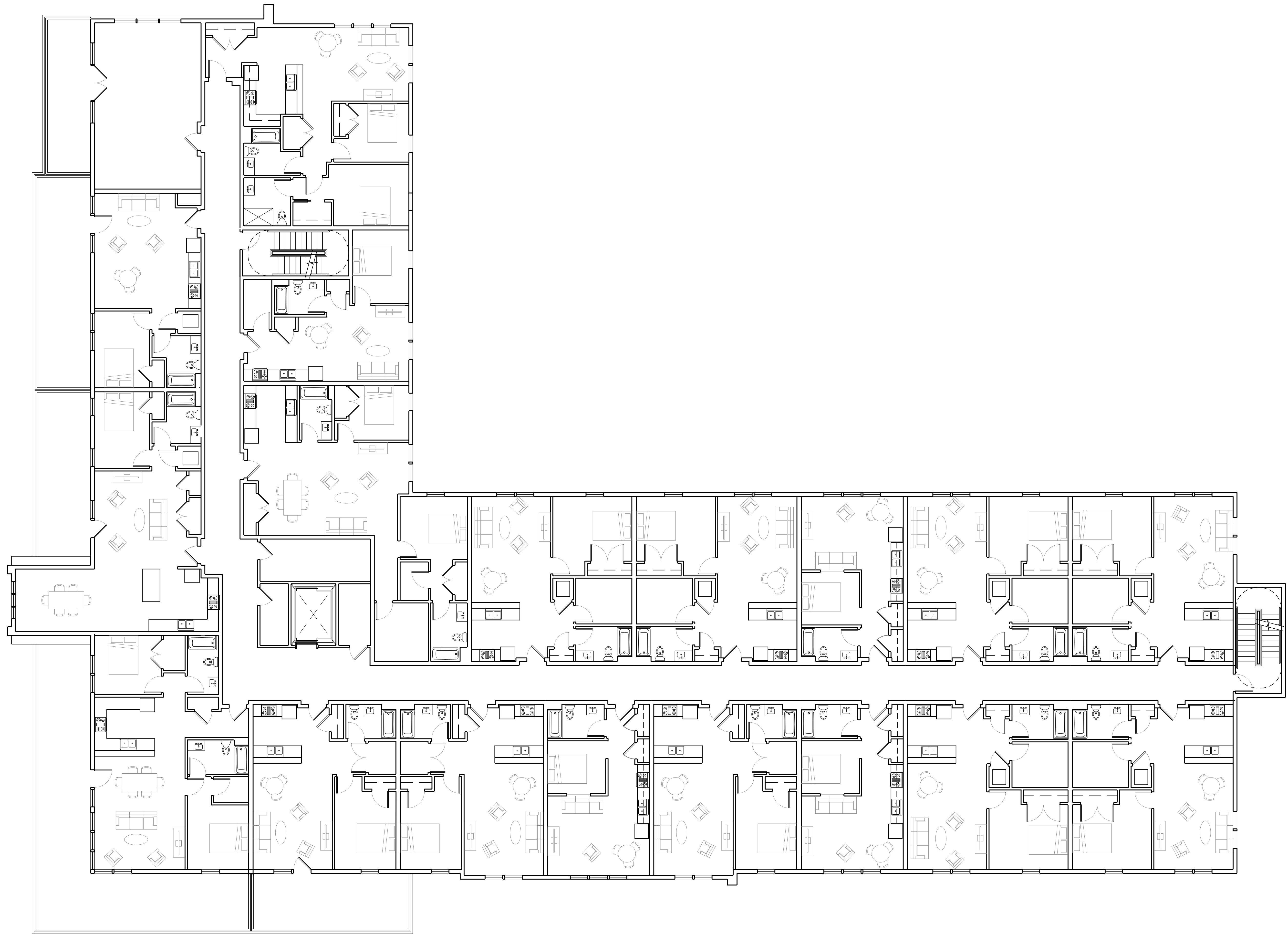
ZONING PERMIT  
DRAWINGS  
NOT FOR  
CONSTRUCTION

LEVEL 4  
FLOOR PLAN

SCALE: AS NOTED  
DATE: September 8, 2022

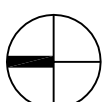
A104





10 LEVEL 5 FLOOR PLAN

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



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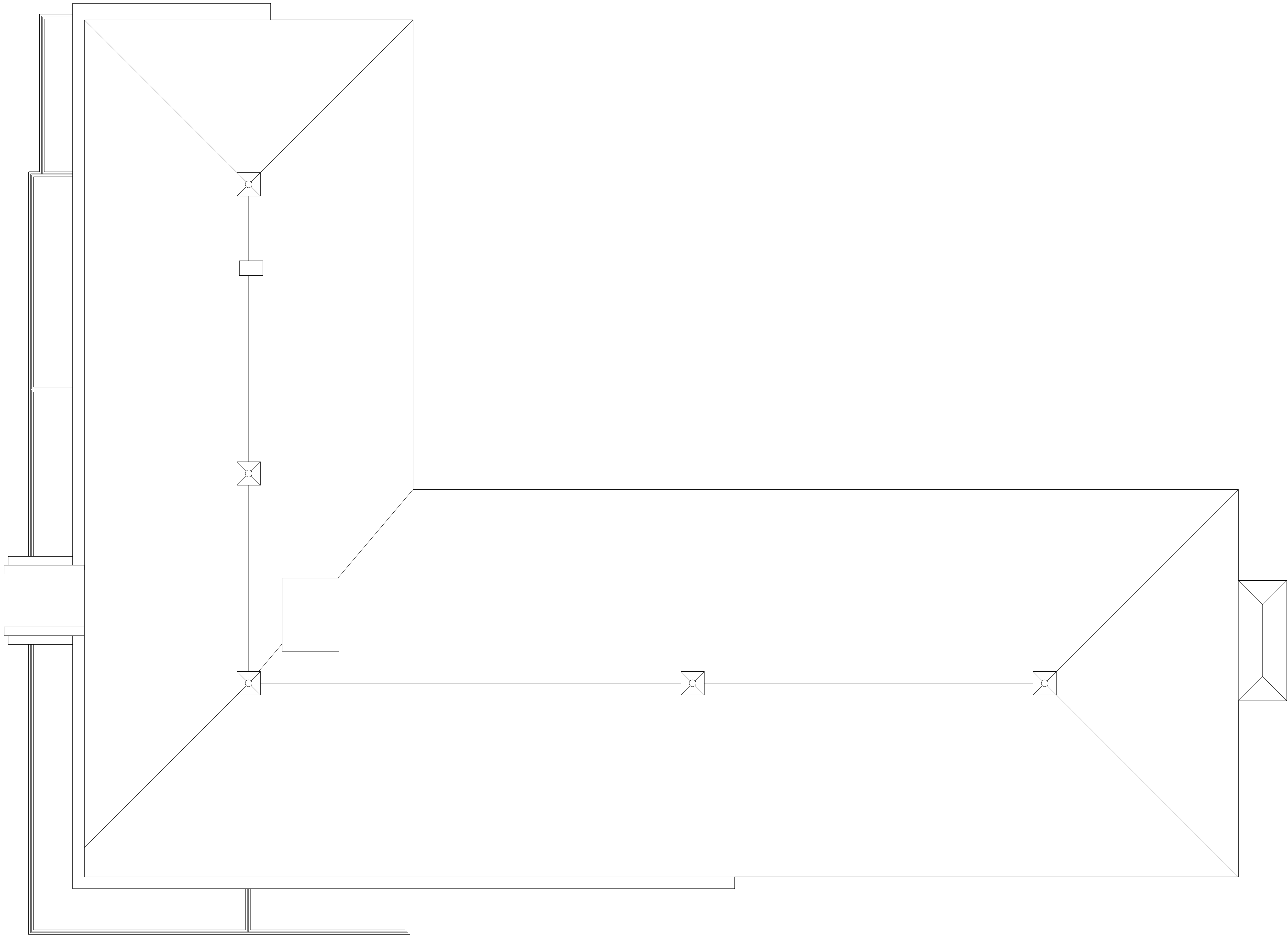
| REV<br>NUMBER                                        | REV<br>DATE | DESCRIPTION |
|------------------------------------------------------|-------------|-------------|
| ZONING PERMIT<br>DRAWINGS<br>NOT FOR<br>CONSTRUCTION |             |             |

LEVEL 5  
FLOOR PLAN

SCALE: AS NOTED  
DATE: September 8, 2022

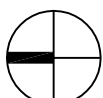
A105





10 ROOF PLAN

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







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ZONING PERMIT  
DRAWINGS  
NOT FOR  
CONSTRUCTION

A200

## Burlington Design Advisory Board

Department of Permitting and Inspections

645 Pine Street

Burlington, VT 05401

<http://www.burlingtonvt.gov/DPI/Boards/Design-Advisory-Board/>

Telephone: (802) 865-7188

Eric Morrow, Chair  
Matt Bushey, Vice Chair  
Tom Cullins  
Ron Wanamaker  
Karyn Norwood  
Vacant, Alternate  
Vacant, Alternate



### DESIGN ADVISORY BOARD

Tuesday October 27, 2020

Remote Meeting via Zoom

**Present:** Matt Bushey, Ron Wanamaker, Jay White (alternate)

**Absent:** Eric Morrow, Tom Cullins, Karyn Norwood.

**Staff present:** Mary O'Neil, Scott Gustin

#### Session I – 3:00 PM – 3:30 PM

**21-0329CA; 323-325 College Street (RH, Ward 8E) Green Castle LLC, Aloha Properties LLC, Peter Potts IRA, Carol B. Potts IRA, and Elizabeth Demas IRA**  
Construction of 4-unit building addition with associated utility work and minor grading.

**Attendees:** Bruce Baker and Greg Doremus

**Motion by Matt Bushey:** I move we **table** the application to allow the applicant to return with design revisions. The following recommendations are made:

- 1) Add entrance to front (north) façade, facing the street. Revise the front façade so it reads as a primary elevation.
- 2) Eliminate retaining wall.
- 3) Consider removing the top floor of the proposed addition.

2<sup>nd</sup> – Ron Wanamaker

**Vote 3-0.**

**Motion carries.**

#### Session II – 3:30 PM – 4:00 PM

**21-0358CA/CU; 40 Kingsland Terrace (RL, Ward 6S) Kellen Brumsted**  
Demolish existing garage and construct new garage with ADU and related site work.  
Rear yard setback variance request also included.

**Attendees:** Kellen Brumsted and Emily Morse

**Motion by Ron Wanamaker:** I move we **table** the application to give the applicant time to:

- 1) assemble photographic evidence of the building proposed to be demolished, and;
- 2) provide evidence of a conservation easement or other restrictions on the rear yard that would support the variance request.

2<sup>nd</sup> – Jay White

**Vote 3-0**

**Motion carries.**

**Session III – 4:00 PM – 4:30 PM**

**21-0409CA/MA; 362-374 Riverside Avenue (NAC-R, Ward 1E) Doug & Katherine Boyden / Blackrock Construction**

Construct 64-unit senior housing facility and related site work and lot mergers.

**Attendees:** Jeff Zweber, Cleary Buckley AIA, Ben Avery (Blackrock Construction.)

**Motion by Jay White:** I move we recommend approval as submitted.

2<sup>nd</sup> – Matt Bushey

**Vote 3-0.**

Meeting adjourned 4:47 pm.