



# VANDEWALLE & ASSOCIATES INC.

To: Urban Design Commission

From: Brian Munson

CC: Austin Pagnotta

Tim Kamps

Eli Tsarovsky

Chris Wells

Mike Verveer

Date: Friday, May 26, 2023

Re: UDC Final Approval Set

---

Attached please find a revised plan set for discussion at the May 31<sup>st</sup> Urban Design Commission. These changes include the following items:

UDC Requested Revisions:

- The first floor has been revised to provide a common building entrance from Dayton Street through to the Johnson Street lobby. This includes revisions based on staff input to make it more discernible from the townhome entrances (door, color, addressing).
- Removal of the exterior townhome entrances that do not face onto a street, with subsequent landscape plan revisions to show outdoor patio spaces.
- The vehicle entry portal on the W Dayton Street elevation has been lowered to reduce the opening size while still accommodating the necessary vehicular types. Additional Dayton Street perspective added to illustrate the changes.
- Revised lighting plans.

120 East Lakeside Street • Madison, Wisconsin 53715 • 608.255.3988 • 608.255.0814 Fax  
247 Freshwater Way, Suite 530 • Milwaukee, Wisconsin 53204 • 414.988.8631

[www.vandewalle.com](http://www.vandewalle.com)

Shaping places, shaping change

Plan Commission Requested Revisions:

- Illustration of EV charging station placement within the parking level.
- The 12<sup>th</sup> floor mechanicals/elevators have been reduced to the minimum level with two elevators/stairwells serving the deck area, elevator overruns, and mechanicals serving the building.

Staff Requested Revisions:

- The first floor façade adjacent to the Lexington Parking lot is planned for an art mural installation. The mural will be installed on a backer board with a minimal frame. Final details will be addressed in a future submittal. The bump out detail on the first floor along this façade carries through the mezzanine level and ends into the 2<sup>nd</sup> floor overhang.
- The mechanical screening details are included
- Handrail detail/spec added.



# VANDEWALLE & ASSOCIATES INC.

Monday, March 27, 2023

Heather Stouder  
Department of Planning & Development  
City of Madison  
215 Martin Luther King, Jr. Blvd.  
Madison, WI 53710-2985

The attached formal submittal packet for the Johnson & Bassett project, submitted on behalf of Core Madison Bassett, LLC, outlines the request for the rezoning and redevelopment of a new multifamily project located along Johnson Street, Bassett Street, and Dayton Street. This project is designed to meet the recommendations of the adopted plans while creating much needed new residential housing units with a range of configurations.

## **Project Description**

- Rezone parcels PD and DR2 parcels to Urban Mixed Use (UMX)
- Demolition of existing structures (11)
- Conditional Use
  - New construction greater than 50,000 square feet
  - New construction of building in UMX District
  - Rooftop outdoor recreation
- CSM to create one lot for development

The proposed project is a 12/6 story multi-family building with 232 units ranging from studios to townhome units. This project implements the adopted downtown plan, downtown design guidelines, and downtown height map with well-articulated urban architecture. Residents of the project will have access to amenities within the building including fitness, study rooms, and gathering rooms; as well as, rooftop amenities.

Pedestrian access will be served by a lobby fronting onto Johnson Street with additional individual entries serving townhomes along the perimeter of the building. Vehicular and loading access to the building is located off of Dayton Street, per City Staff recommendation. The building will be well served by the existing pedestrian and bicycle network and a bus stop will be re-activated at the corner of Johnson Street and Bassett Street.

## **Applicant**

Core Madison Bassett, LLC.  
1643 North Milwaukee Street  
Chicago, IL 60647

120 East Lakeside Street • Madison, Wisconsin 53715 • 608.255.3988 • 608.255.0814 Fax  
247 Freshwater Way, Suite 530 • Milwaukee, Wisconsin 53204 • 414.988.8631  
[www.vandewalle.com](http://www.vandewalle.com)

## **Owners**

*437 West Johnson Street*  
424 Wisconsin LLC  
5223 Tonyawatha Trail  
Monona, WI 53716

*445 West Johnson Street*  
Core Madison Johnson LLC  
1643 N Milwaukee Street  
Chicago, IL 60647

*215 North Bassett Street*  
215 N Bassett LLC  
5949 County Highway K  
Waunakee, WI 53597  
*217 North Bassett Street*  
Nelson Trust, Jasper  
200 The Circle  
Austin, TX 78704

*219 North Bassett Street*  
Bassett Street LLC  
5949 County Highway K  
Waunakee, WI 53597

*221 North Bassett Street*  
Core Madison Bassett LLC  
1643 N Milwaukee Street  
Chicago, IL 60647

*430 West Dayton Street*  
430 West Dayton Street LLC  
P.O. Box 694  
Madison, WI 53701

*434 West Dayton Street*  
Martin, Dennis G  
428 Castle Place #2  
Madison, WI 53703-1503

*438/440 West Dayton Street*  
440 West Dayton Street LLC  
Attn: Daniel Bohl  
3595 Richie Road  
Verona, WI 5393

## **Design Team**

Architecture:  
Kahler Slater  
722 Williamson Street  
Madison, WI 53703

Engineering:  
Vierbicher  
999 Fournier Drive  
Madison, WI 53717

Landscape:  
Site Design  
888 South Michigan Avenue  
Chicago, IL 60605

Lighting:  
Hartranft Lighting Design  
401 Hawthorne Lane  
Suite 110-269  
Charlotte, NC 28204

Entitlement:  
Vandewalle & Associates  
120 East Lakeside Street  
Madison, WI 53715

## Site Data

Addresses	PIN	Existing Zoning	Acreage
437 West Johnson Street	709-231-1421-2	UMX	4,356 sq. ft.
445 West Johnson Street	709-231-1416-3	UMX	13,068 sq. ft.
215 North Bassett Street	709-231-1420-4	UMX	2,178 sq. ft.
217 North Bassett Street	709-231-1419-7	UMX	2,178 sq. ft.
219 North Bassett Street	709-231-1417-1	UMX	2,178 sq. ft.
221 North Bassett Street	709-231-1417-1	UMX	2,178 sq. ft.
430 West Dayton Street	709-231-1421-2	PD	4,356 sq. ft.
434 West Dayton Street	709-231-1421-2	DR2	4,356 sq. ft.
438/440 West Dayton Street	709-231-1421-2	PD	8,712 sq. ft.

Total Site Acreage:	1.0 acre (43,560 sq. ft.)
Rezoning Acreage:	.41 acres
Existing Units:	55 units

## Proposed Zoning

Urban Mixed Use (UMX)

Conditional Use

- Building greater than 20,000 square feet and more than 4 stories in height
- Outdoor rooftop amenities

## Project Summary

Multi-Family Housing	232 units
Studio	39
1 bedroom	5
2 bedroom	63
4 bedroom	49
5 bedroom	63
2 bedroom townhome	4
3 bedroom townhome	8
4 bedroom townhome	1

Vehicle Parking:

First Floor	7 car spaces
	Delivery/loading zone
Lower Level:	55 car spaces
Total Car Spaces	62

Bike Parking:

First Floor Guest Parking	24 standard spaces
Lower-Level Tenant Parking	250 standard spaces
	142 structured spaces
Total Spaces	416

Lot Coverage: 88%

**Loading:**

All loading, deliveries, and trash/recycling collection will take place within the site, accessed from the Dayton Street entrance.

Car share pickup and deliveries will have access to 7 designated short term parking stalls within the first-floor enclosed parking area.

**Usable Open Space:**

Usable open space will be delivered through balconies and unique rooftop patios with a range of amenities and configurations.

Open Space Required (10 sq. ft./bedroom): 2,320 sq. ft.

**Open Space Provided:**

6 <sup>th</sup> floor roof:	2,100 sq. ft.
12 <sup>th</sup> floor roof:	6,380 sq. ft.
Balconies:	6,120 sq. ft.
Total	14,600 sq. ft.

Green Roof Required (stormwater): 7,600 sq. ft.

Green Roof Supplied: 7,600 sq. ft.

**Project Schedule**

Initial Staff Meetings 9/7/2022

Alder Notification 9/7/2022

CANA/CNI Notification 11/3/2022

DAT 11/10/2022

Initial CANA/CNI Steering MTG 11/30/2022

Demolition Notification 12/15/2022

Formal Submittal Notification 12/15/2022

Landmarks Commission 1/9/2023

UDC Informational MTG #1 1/11/2023

UDC Informational MTG #2 3/1/2023

Formal Submittal 3/13/2023

Anticipated Schedule: 2024 Construction  
2026 Occupancy

## Urban Design Commission (UDC) Informational Review

The project has been presented and discussed with the UDC at two informational presentations. The design has undergone significant adjustments based on their feedback with the most recent iteration including the following items from the March 1<sup>st</sup> presentation:

- 1.) Removed window ledge detailing on Dayton Street
- 2.) Lightened the base brick color

## Demolition Request

The project is seeking a demolition request for the buildings located on the site due to functional obsolescence, and inability for reuse/retention due to lot configuration impacts on the overall project site limiting the potential to incorporate City planning goals for the site. The buildings are all currently used for rental student housing, and most have been well used over many years with numerous additions and revisions from their original conditions. The Landmarks Commission has reviewed this demolition request and noted that none of the buildings held known historic value.

Re-use and Recycling plans will be prepared for all structures. None of the structures are currently proposed for relocation.

### Addresses:

#### 437 West Johnson Street

Student Housing	12 bedroom rooming house
Date of Construction:	1915
Additions:	1984
Request:	Functional obsolescence

#### 445 West Johnson Street

Student Housing	35 unit multi-family
Date of Construction:	1965
Additions:	1998
Request:	Functional obsolescence

#### 215 North Bassett Street

Student Housing	single-family rental
Date of Construction:	1901
Additions:	none
Request:	Functional obsolescence

#### 217 North Bassett Street

Student Housing	single-family rental
Date of Construction:	1895 or 1900
Additions:	none
Request:	Functional obsolescence

219 North Bassett Street  
Student Housing 2 unit multi-family  
Date of Construction: 1900 or 1906  
Additions: none  
Request: Functional obsolescence

221 North Bassett Street  
Student Housing 2 unit multi-family  
Date of Construction: 1906 or 1908  
Additions: none  
Request: Functional obsolescence

430 West Dayton Street  
Student Housing 3 unit multi-family/ADU  
Date of Construction: 1914  
Additions: ADU 2010  
Request: Functional obsolescence

434 West Dayton Street  
Student Housing 3 unit multi-family  
Date of Construction: 1914  
Additions: none  
Request: Functional obsolescence

438 West Dayton Street  
Student Housing 6 unit multi-family  
Date of Construction: 2000  
Additions: none  
Request: Lot configuration precludes preservation

440 West Dayton Street  
Student Housing 3 unit multi-family  
Date of Construction: 1914  
Additions: none  
Request: Functional obsolescence

See the Exhibit A for photos of the existing buildings.

### **Conditional Use Standards**

1. *The establishment, maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, or general welfare.*

The proposal for multi-family housing is consistent with the historic use of the site and the surrounding area.

2. *The City is able to provide municipal services to the property where the conditional use is proposed, given due consideration of the cost of providing those services.*  
The site is well served with readily available municipal services adjacent to the site.
3. *The uses, values and enjoyment of other property in the neighborhood for purposes already established will not be substantially impaired or diminished in any foreseeable manner.*  
The proposed building is consistent with the previous use of the site and reflects the recommendations of the Comprehensive Plan, Downtown Plan, and current zoning on the site.
4. *The establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.*  
The proposal will not preclude development or improvement of the surrounding properties.
5. *Adequate utilities, access roads, drainage, parking supply, internal circulation improvements, including but not limited to vehicular, pedestrian, bicycle, public transit and other necessary site improvements have been or are being provided.*  
The proposal incorporates the necessary site improvements to support the project.
6. *Measures, which may include transportation demand management (TDM) and participation in a transportation management association have been or will be taken to provide adequate ingress and egress, including all off-site improvements, so designed as to minimize traffic congestion and to ensure public safety and adequate traffic flow, both on-site and on the public streets.*  
The project submittal includes the City of Madison TDMP spreadsheet, illustrating that the project exceeds the required transportation components.
7. *The conditional use conforms to all applicable regulations of the district in which it is located.*  
The project meets the standards of the UMX zoning district and downtown plan.
8. *When applying the above standards to an application by a community living arrangement, the Plan Commission shall:*  
Not Applicable.
9. *When applying the above standards to any new construction of a building or an addition to an existing building the Plan Commission shall find that the project creates an environment of sustained aesthetic desirability compatible with the existing or intended character of the area and the statement of purpose for the zoning district. In order to find that this standard is met, the Plan Commission may require the applicant to submit plans to the Urban Design Commission for comment and recommendation. (Am. by ORD-14-00030, 2-18-14)*  
The project has been presented for informational review with the Urban Design Commission on January 11, 2023 & March 1, 2023 (UDC) to gather input on the design direction and anticipates seeking UDC approval as part of the review of the project.
10. *When applying the above standards to an application for a reduction in off-street parking requirements, the Plan Commission shall consider and give decisive weight to all relevant facts, including but not limited to, the availability and accessibility of alternative parking; impact on adjacent residential neighborhoods; existing or potential shared parking arrangements; number*

*of residential parking permits issued for the area; proximity to transit routes and/or bicycle paths and provision of bicycle racks; the proportion of the total parking required that is represented by the requested reduction; the proportion of the total parking required that is decreased by Sec. 28.141. The characteristics of the use, including hours of operation and peak parking demand times design and maintenance of off-street parking that will be provided; and whether the proposed use is now or a small addition to an existing use.*

The proposal meets the parking requirements for the Urban Mixed Use (UMX) zoning district. This site is well served with pedestrian and bicycle routes and transit service, as illustrated by the submitted TDMP spreadsheet.

11. *When applying the above standards to telecommunication facilities, the Plan Commission shall consider the review of the application by a professional engineer required by Sec. 28.143.*

Not Applicable.

12. *When applying the above standards to an application for height in excess of that allowed in the district, the Plan Commission shall consider recommendations in adopted plans; the impact on surrounding properties, including height, mass, orientation, shadows and view; architectural quality and amenities; the relationship of the proposed building(s) with adjoining streets, alleys, and public rights of ways; and the public interest in exceeding the district height limits.*

Not applicable.

13. *When applying the above standards to lakefront development under Sec. 28.138, the Plan Commission shall consider the height and bulk of principal buildings on the five (5) developed lots or three hundred (300) feet on either side of the lot with the proposed development.*

Not applicable.

14. *When applying the above standards to an application for height in excess of that allowed by Section 28.071(2)(a) Downtown Height Map for a development located within the Additional Height Areas identified in Section 28.071(2)(b), the Plan Commission shall consider the recommendations in adopted plans, and no application for excess height shall be granted by the Plan Commission unless it finds that all of the following conditions are present:*

- a. *The excess height is compatible with the existing or planned (if the recommendations in the Downtown Plan call for changes) character of the surrounding area, including but not limited to the scale, mass, rhythm, and setbacks of buildings and relationships to street frontages and public spaces.*
- b. *The excess height allows for a demonstrated higher quality building than could be achieved without the additional stories.*
- c. *The scale, massing and design of new buildings complement and positively contribute to the setting of any landmark buildings within or adjacent to the projects and create a pleasing visual relationship with them.*
- d. *For projects proposed in priority viewsheds and other views and vistas identified on the Views and Vistas Map in the City of Madison Downtown Plan, there are no negative impacts on the viewshed as demonstrated by viewshed studies prepared by the applicant.*

Not applicable.

15. *When applying the above standards to an application to redevelop a site that was occupied on January 1, 2013 by a building taller than the maximum building height allowed by [Section 28.071\(2\)\(a\) Downtown Height Map](#), as provided by [Section 28.071\(2\)\(a\)1.](#), no application for*

*excess height shall be granted by the Plan Commission unless it finds that all the following additional conditions are also present:*

- a. The new building is entirely located on the same parcel as the building being replaced.*
- b. The new building is not taller in stories or in feet than the building being replaced.*
- c. The new building is not larger in total volume than the building being replaced.*
- d. The new building is consistent with the design standards in [Section 28.071\(3\)](#) and meets all of the dimensional standards of the zoning district other than height.*
- e. The Urban Design Commission shall review the proposed development and make a recommendation to the Plan Commission.*

Not applicable.

- 16. When applying the above standards to an application for limited production and processing use, the Plan Commission shall consider the effect of such a use on the surrounding properties, including the effects of odors, noise, vibration, glare, hours of operation, and other potential side effects of a manufacturing process. (Cr. by ORD-15-00124, 11-11-15)*

Not Applicable

## **Downtown Design Guidelines**

### **Site Design + Building Placement**

#### *Orientation*

The project creates a strong and permeable street wall with minimal setback along all three adjoining streets while employing a slight setback to allow for a larger terrace/sidewalk zone along Johnson Street. Useable entrances front out to each street frontage with expansive windowpanes integrated into the first floor to reinforce activity and transparency along the sidewalk.

#### *Access + Circulation*

The site parking and loading is accessed on Dayton Street, per Staff recommendation, to minimize disruption on regional vehicular and bicycle corridors on Johnson Street and Bassett Street. Guest parking/delivery is located within the building with 7 spots available for short term use. Long term parking and bicycle parking is located on the lower parking level under the building.

#### *Usable Open Space -Residential Development*

The project offers resident both balcony and roof top useable open space with a variety of activity areas.

#### *Landscaping*

The landscape design of the ground level offers urban foundation plantings, expanded sidewalk/terrace area, and buffers from adjoining developments. The overall design seeks to bring color & texture to the streetscape by using landscape and hardscape to further define commercial/public vs. residential/private entrances to the building.

#### *Lighting*

Building lighting is proposed to provide appropriate levels of light while maintaining the residential environment.

### **Architecture**

#### *Massing*

The massing implements the adopted plans with a 12-story element along Johnson/Bassett stepping down to a 6-story element along Dayton Street, consistent with the designation for this property in the Downtown Height Map. This massing reflects the adjoining character along Johnson Street and the smaller scale of Dayton Street. The building is further articulated through deep insets breaking the Johnson and Bassett facades into smaller distinct vertical elements.

#### *Building Components*

The ground level of the building incorporates setbacks to create a pedestrian focused activation along each streetscape while clearly establishing a “base” condition for the building and grounding the architecture to the street. The upper-level design utilizes a grid structure that creates visual interest and a framework for setbacks & balconies to further divide the facades into distinct expressions that span from first floor to the rooftop.

#### *Visual Interest*

The overall design of the building, based on UDC feedback, creates a varied and articulated expression along all sides of the building with different treatments in the 12 story and 6 story sections of the building.

#### *Door and Window Openings*

The overall design of the project fits into the context of the adjoining development while implementing a unique design expression that creates architectural diversity within the overall neighborhood.

#### *Building Materials*

The building uses high quality durable materials throughout the four-sided design.

#### *Terminal Views and Highly-Visible Corners*

While the site is not a previously identified terminal view or highly-visible corner, it does create a unique and vibrant expression at the corner of Johnson Street and Bassett Street, anchoring a long view across the corridor to the west.

#### *Awnings and Canopies*

The project entry is highlighted with a canopy and architectural frame to clearly denote the primary pedestrian entrance. The design of this feature reflects and enhances the overall composition and framework of the grid detailing.

#### *Signage*

Signage for the building will be integrated into the project through future submittals and will be consistent with the signage ordinance.

## **Legal Description**

All of Lots 15 and 16, Block 41, Original Plat of Madison as recorded in Volume A of Plats, on Page 3, as Document Number 102, Dane County Registry and located on the Northwest Quarter of the Northeast Quarter of Section 23, Township 07 North, Range 09 East, City of Madison, Dane County, Wisconsin, more fully described as follows:

Commencing at the most southerly corner of said Block 41, Original Plat of Madison; thence North 45 degrees 55 minutes 50 seconds East, along the southeasterly line of said Block 41, a distance of 132.43

feet to the most southerly corner of said Lot 16, Block 41, Original Plat of Madison and the point of beginning of this description; thence North 43 degrees 57 minutes 53 seconds West, along the southwesterly line of said Lot 16, a distance of 133.47 feet to the most westerly corner of said Lot 16; thence North 45 degrees 51 minutes 51 seconds East, along the northwesterly lines of said Lot 16 and Lot 15, Block 41, Original Plat of Madison, 132.70 feet to the most northerly corner of said Lot 15; thence South 43 degrees 53 minutes 23 seconds East, along the northeasterly line of said Lot 15, Block 41, Original Plat of Madison, 133.63 feet to the aforementioned southeasterly line of said Block 41, also being the most easterly corner of said Lot 15, Block 41, Original Plat of Madison; thence South 45 degrees 55 minutes 50 seconds West, along said southeasterly line of Block 41 also being the southeasterly lines of said Lot 15 and Lot 16, Block 41, Original Plat of Madison, 132.53 feet to the Point of Beginning. Said description contains 17,710 square feet or 0.4066 acres, more or less.

---

# STUDENT HOUSING

JOHNSON STREET | MADISON, WISCONSIN

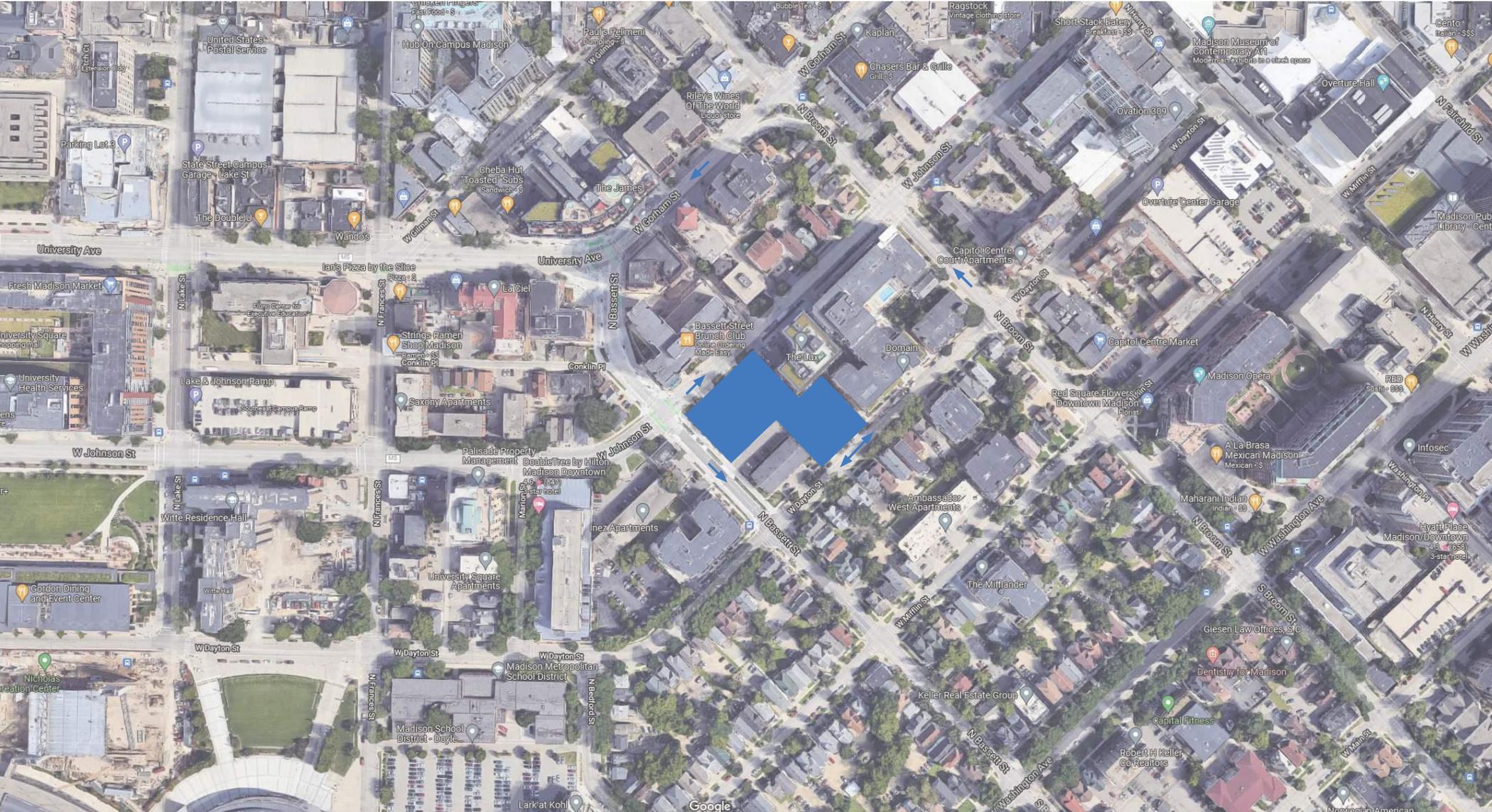
---

CORE MADISON BASSETT, LLC

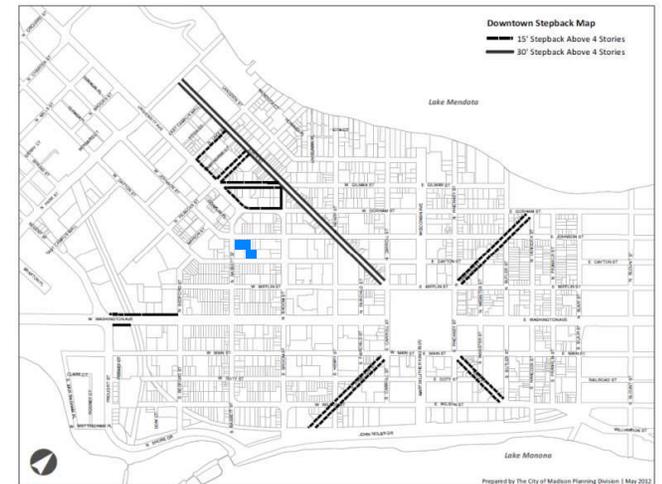
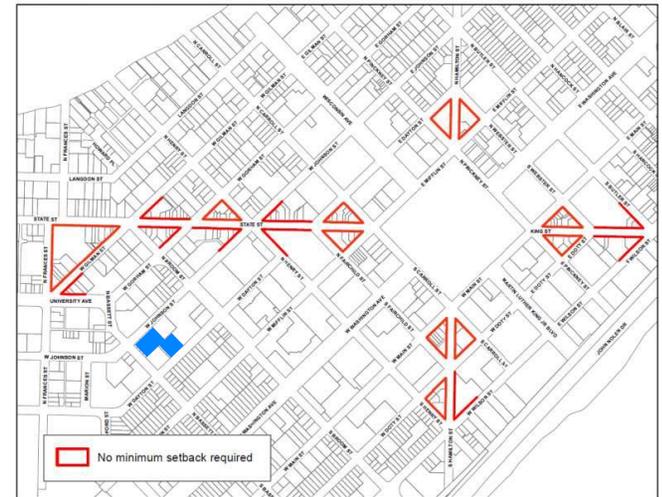
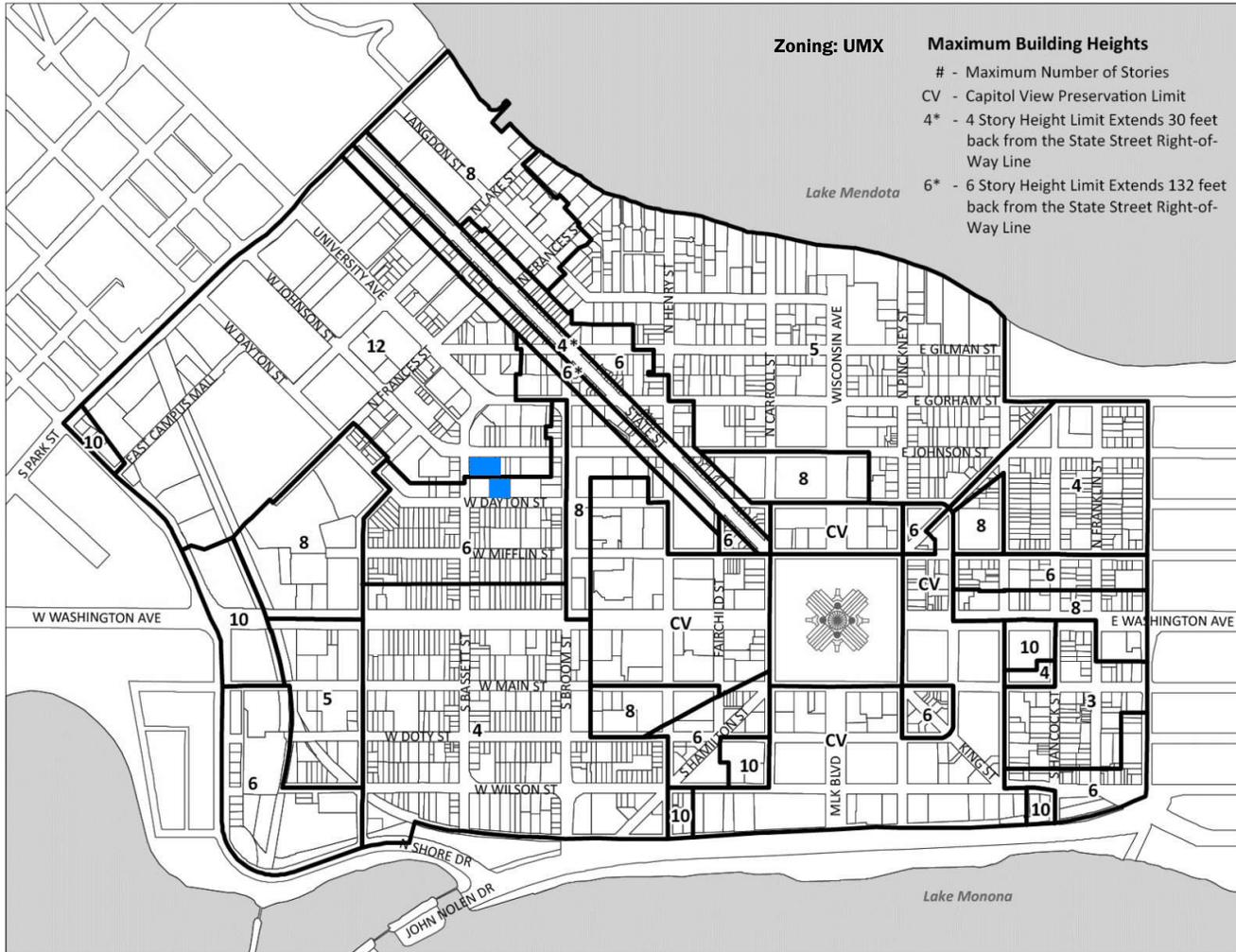
UDC FORMAL SUBMITTAL  
MAY 26, 2023

**Kahler Slater**

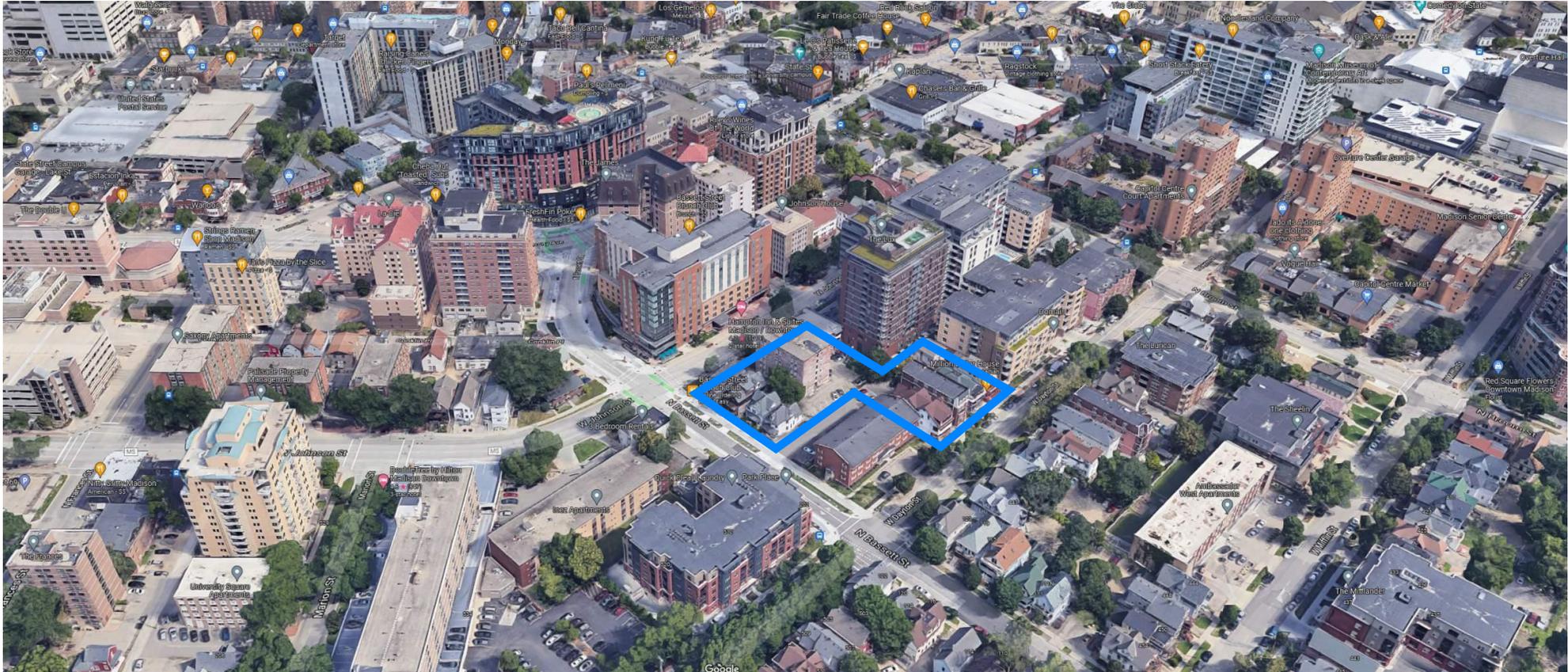
# LOCATOR MAP



# ZONING INFORMATION



# SITE CONTEXT - AERIAL



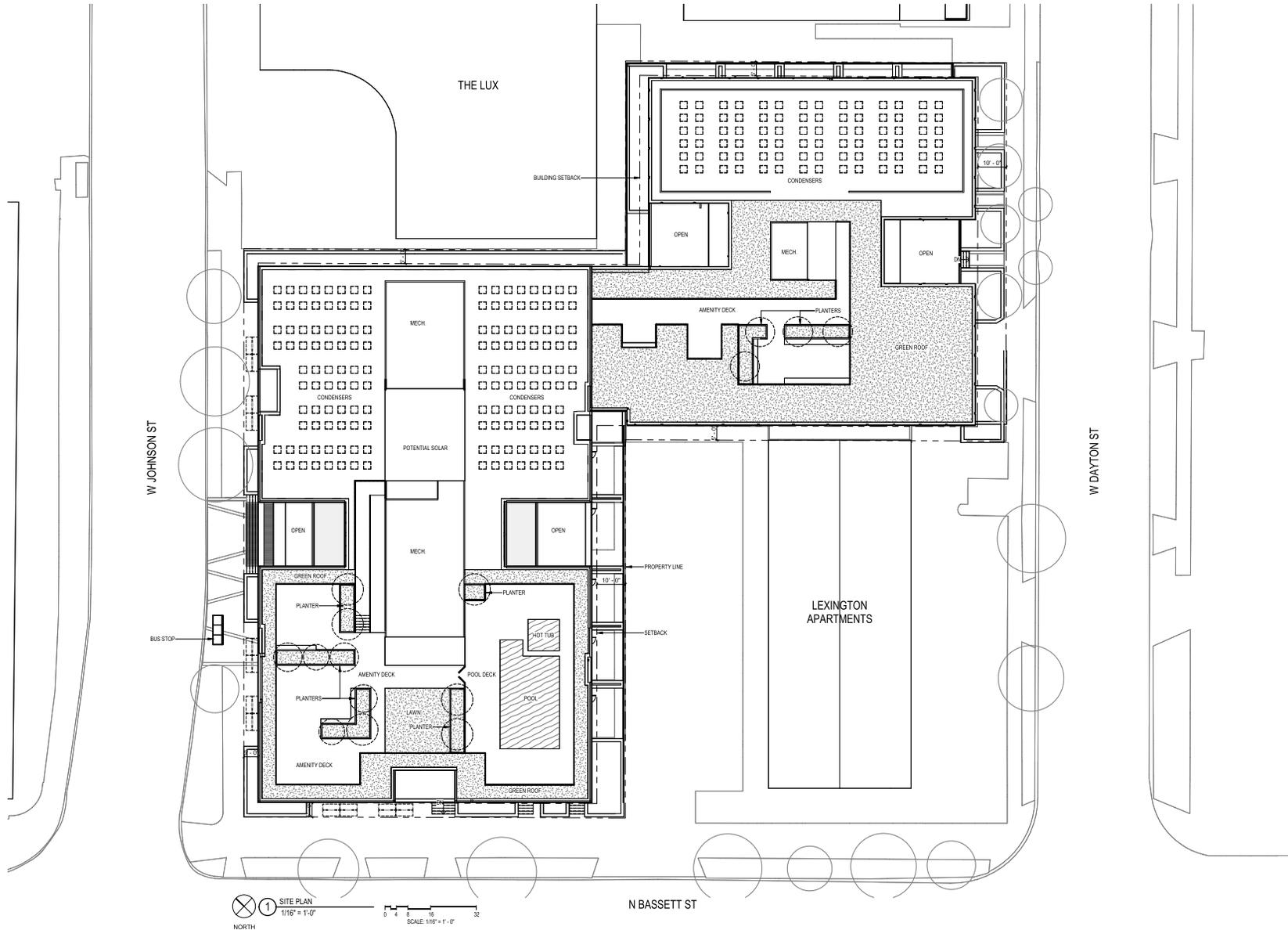
# SITE CONTEXT - STREET VIEWS



# SITE CONTEXT - STREET VIEWS



# SITE PLAN

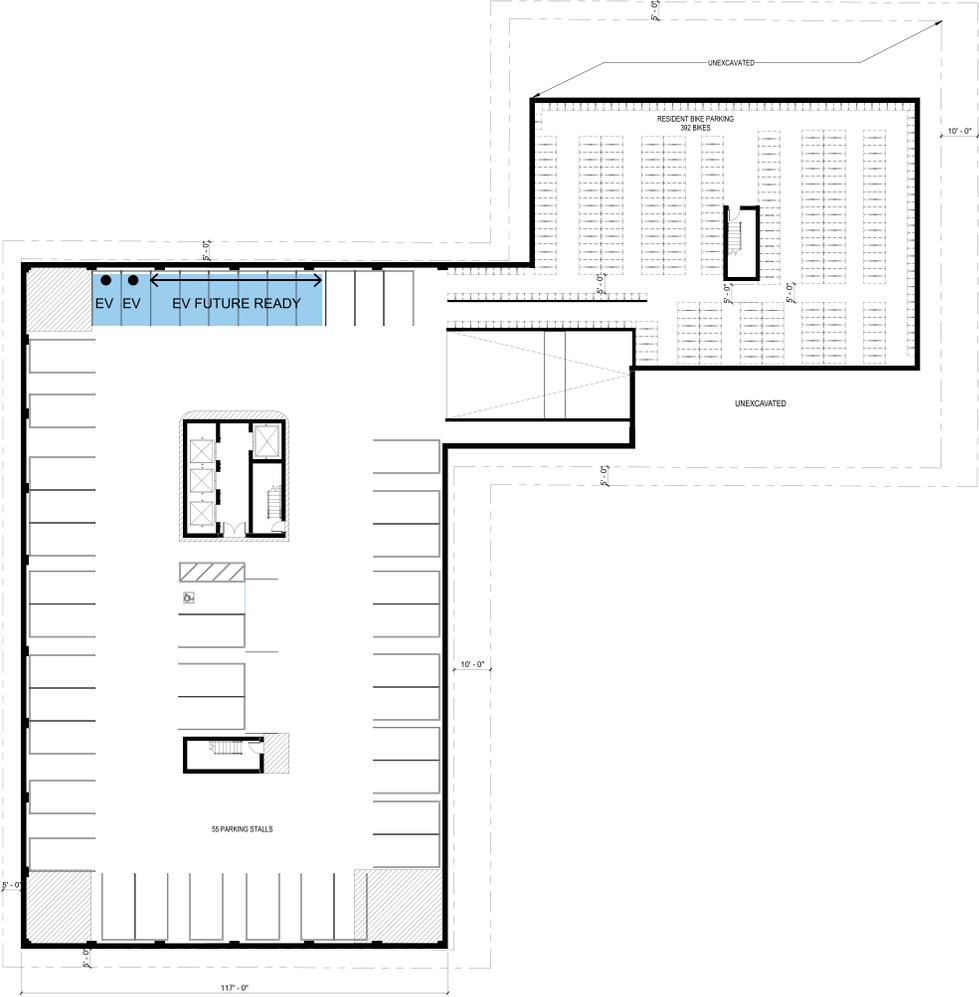


1 SITE PLAN  
1/16" = 1'-0"

0 4 8 16 32  
SCALE: 1/16" = 1'-0"

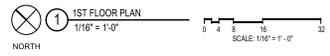
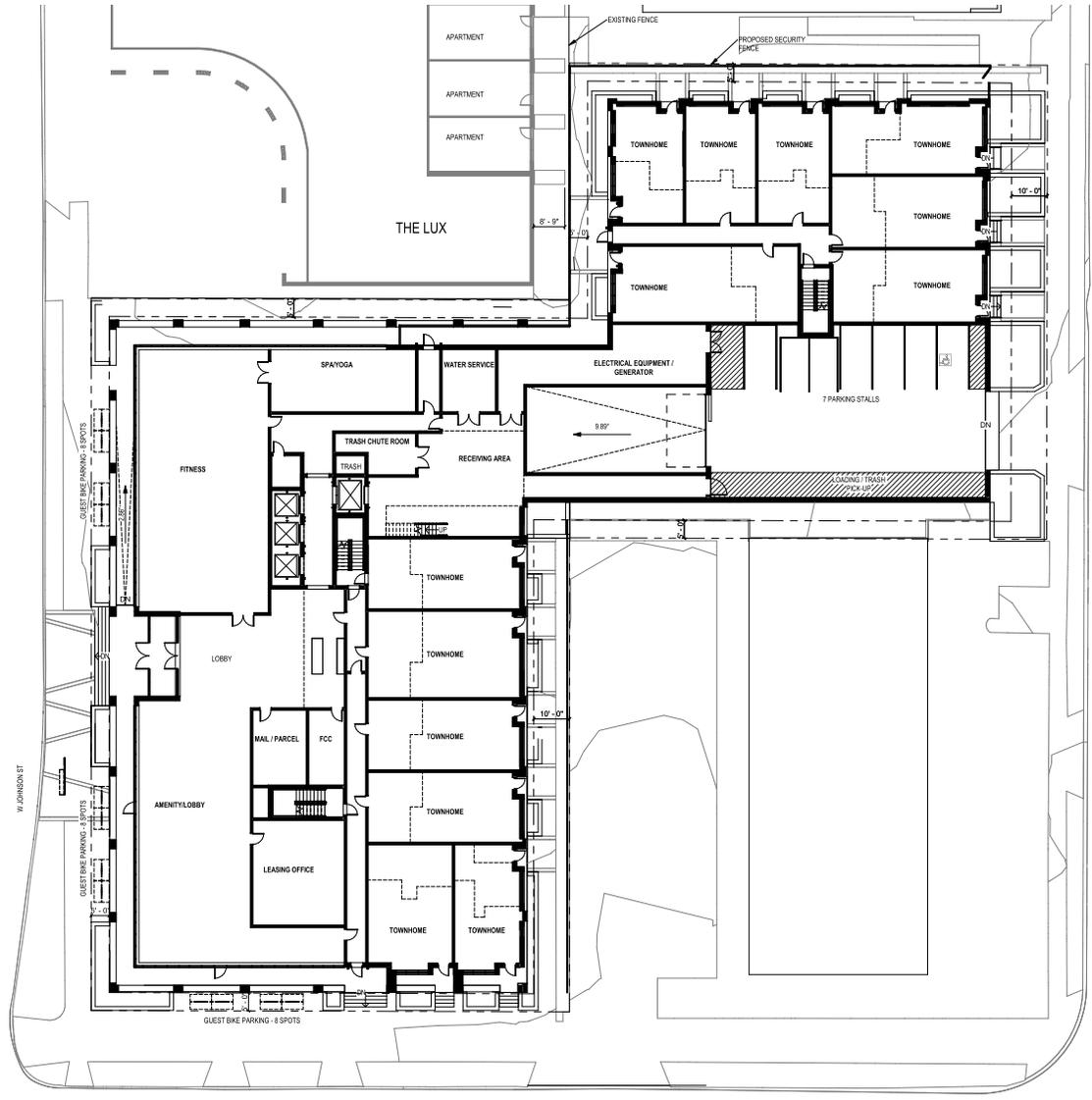
NORTH

# FLOOR PLAN - LOWER LEVEL




**1 LOWER LEVEL PLAN**  
 1/16" = 1'-0"  
 SCALE 1/16" = 1'-0"  
 0 4 8 16 32

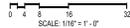
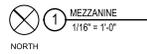
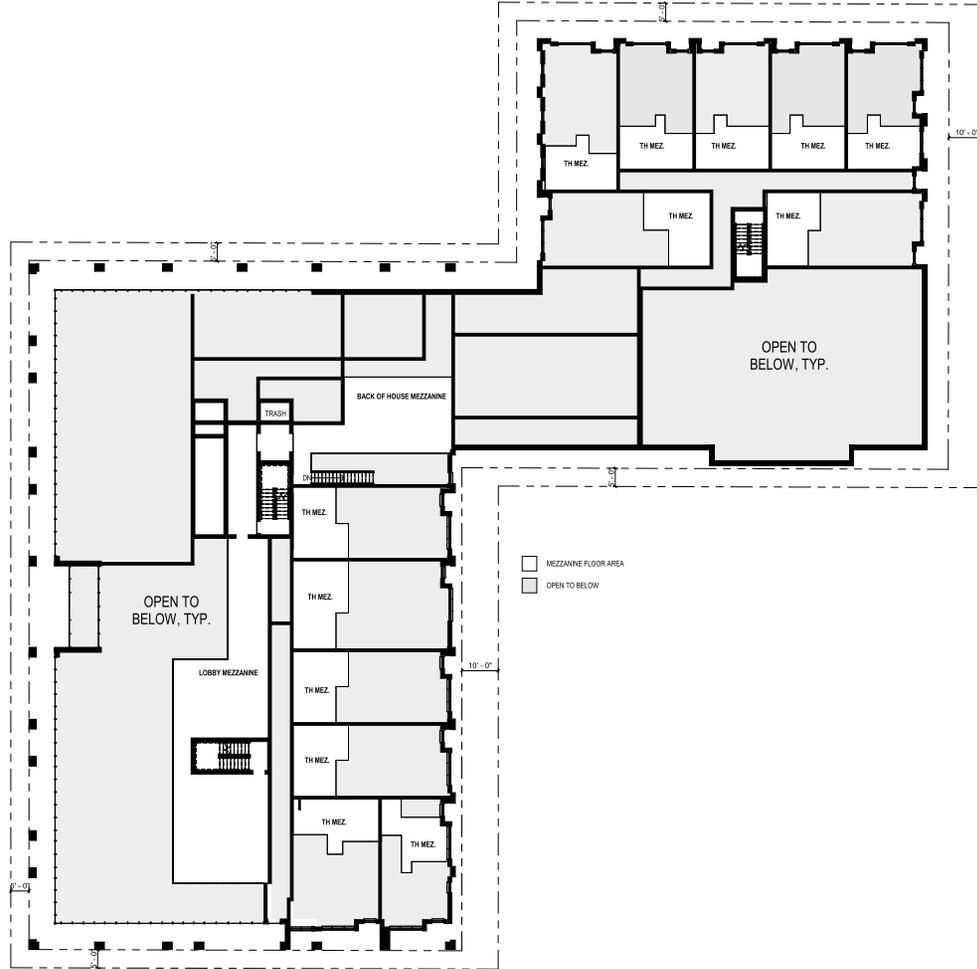
# FLOOR PLAN - 1ST - BEFORE REVISIONS



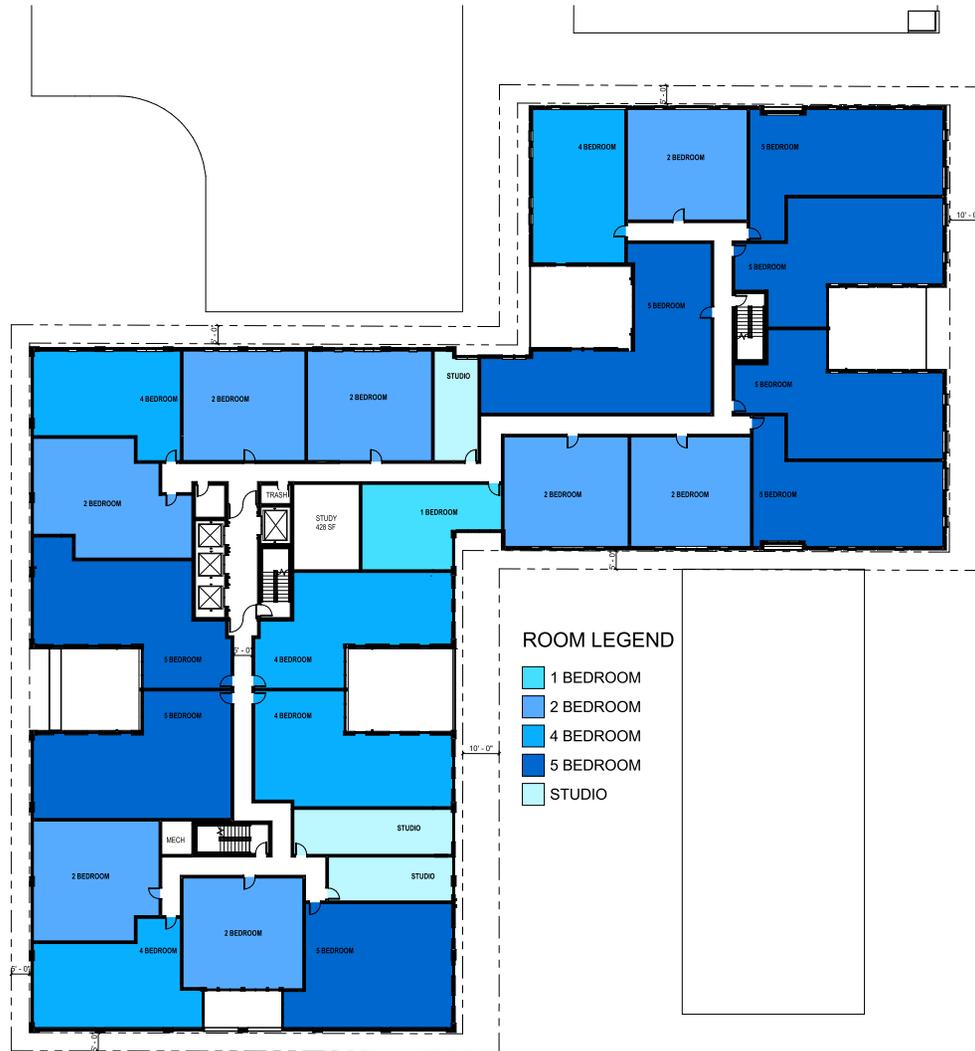
# FLOOR PLAN - 1ST - PROPOSED REVISIONS



# FLOOR PLAN - TOWNHOMES UPPER LEVEL

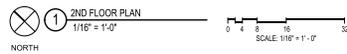


# FLOOR PLAN - 2ND

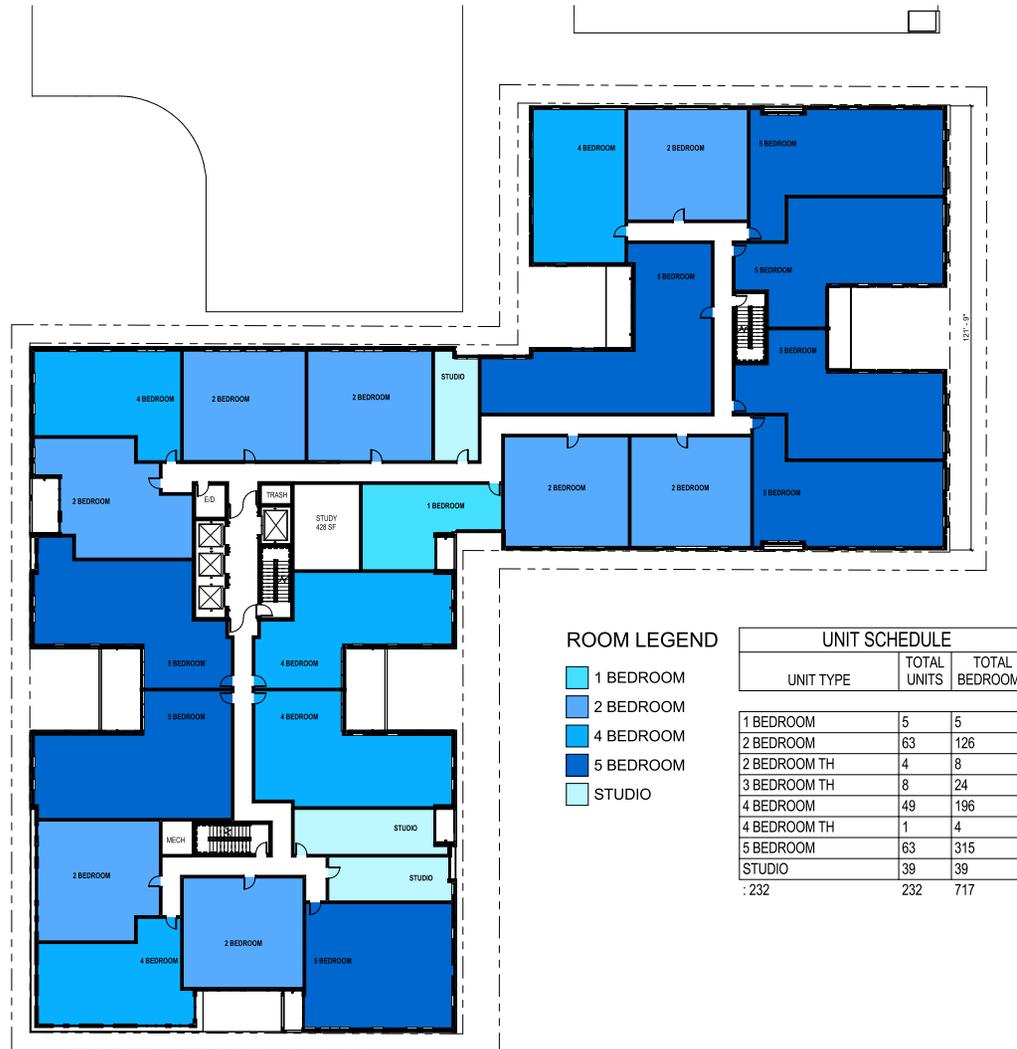


## ROOM LEGEND

- 1 BEDROOM
- 2 BEDROOM
- 4 BEDROOM
- 5 BEDROOM
- STUDIO



# FLOOR PLAN - 3RD-6TH



### ROOM LEGEND

- 1 BEDROOM
- 2 BEDROOM
- 4 BEDROOM
- 5 BEDROOM
- STUDIO

### UNIT SCHEDULE

UNIT TYPE	TOTAL UNITS	TOTAL BEDROOMS
1 BEDROOM	5	5
2 BEDROOM	63	126
2 BEDROOM TH	4	8
3 BEDROOM TH	8	24
4 BEDROOM	49	196
4 BEDROOM TH	1	4
5 BEDROOM	63	315
STUDIO	39	39
<b>TOTAL</b>	<b>232</b>	<b>717</b>

1 3RD - 6TH TYPICAL FLOOR PLAN  
 1/16" = 1'-0"  
 NORTH

0 4 8 16 32  
 SCALE: 1/16" = 1'-0"

# FLOOR PLAN - 7TH

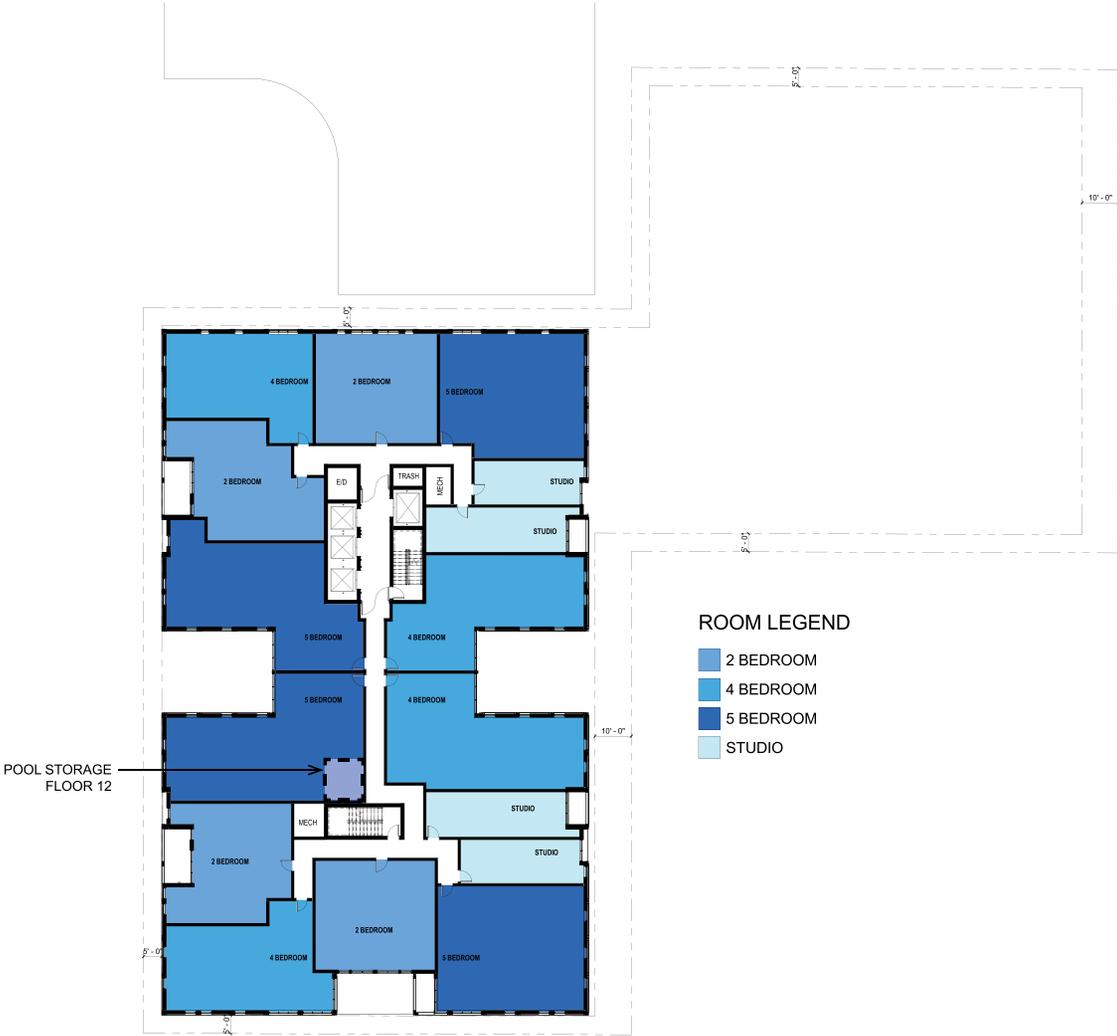


- ROOM LEGEND**
- 2 BEDROOM
  - 4 BEDROOM
  - 5 BEDROOM
  - AMENITY
  - STUDIO

1 7TH FLOOR PLAN  
 1/16" = 1'-0"  
 NORTH

0 4 8 16 32  
 SCALE: 1/16" = 1'-0"

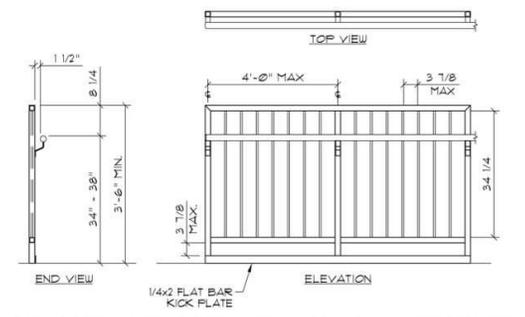
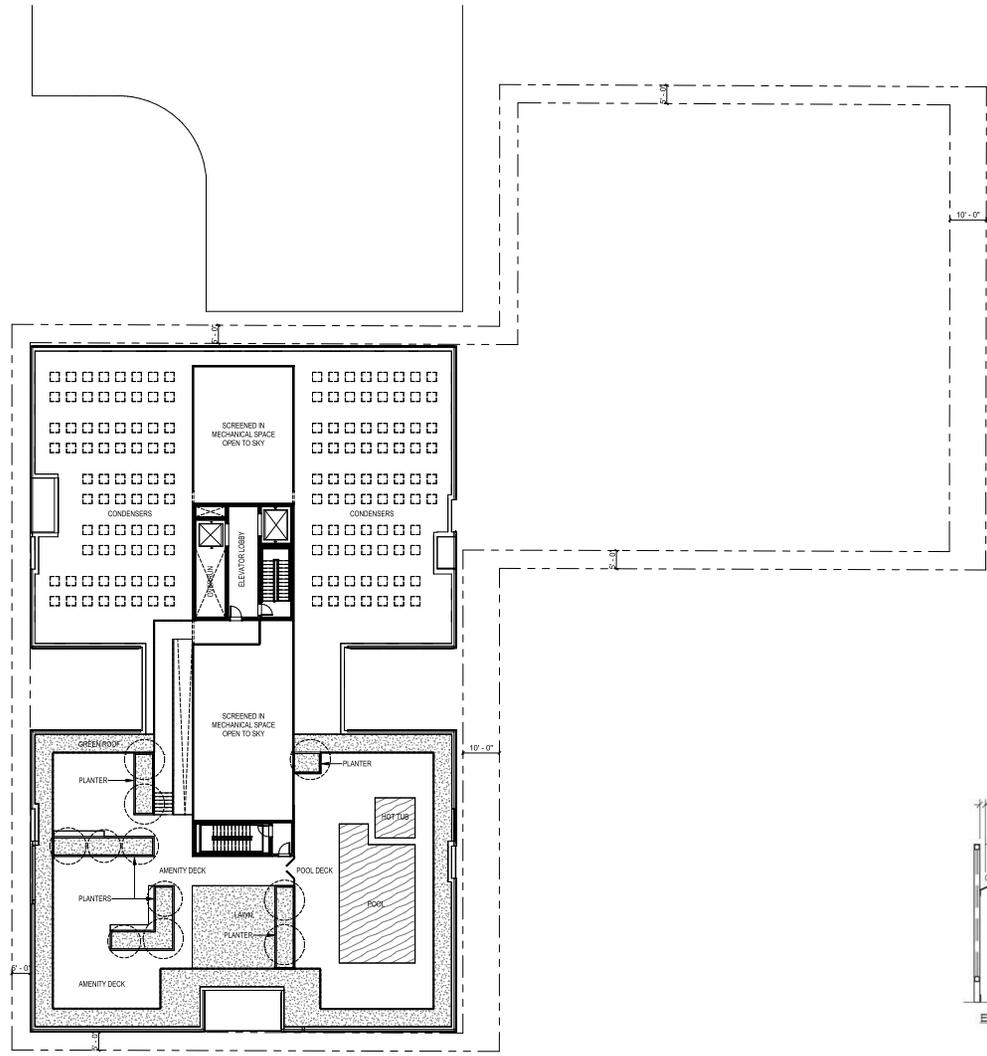
# FLOOR PLAN - 8TH-12TH



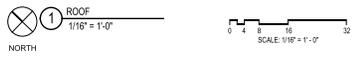
- ROOM LEGEND**
- 2 BEDROOM
  - 4 BEDROOM
  - 5 BEDROOM
  - STUDIO

1 8TH - 12TH FLOOR PLAN  
 1/16" = 1'-0"  
 SCALE: 1/16" = 1'-0"  
 NORTH

# FLOOR PLAN - ROOF



RAILING DETAIL - METAL PICKET, WHITE, HANDRAIL ONLY WHERE REQUIRED



# LANDSCAPE CONCEPT - SITE - BEFORE REVISIONS



888 south michigan avenue  
 suite 1000 chicago, illinois 60605  
 tel 312.427.7240 fax 312.427.7241  
 www.site-design.com

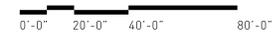
## CORE SPACES JOHNSON AND BASSETT, MADISON, WISCONSIN

Schematic Design, Project Number: 9591  
 Jan 27th, 2023



### LEGEND:

- 1 PARKWAY W/ EXISTING TREE
- 2 PROPOSED SHADE TREE
- 3 ENTRY PLAZA W/ SPECIALTY PAVER
- 4 BENCH
- 5 BIKE RACKS
- 6 RAISED PLANTERS
- 7 PLANTER ALONG BUILDING FACADE
- 8 PROPOSED ORNAMENTAL TREE
- 9 LANDSCAPE SCREENING
- 10 PRIVATE ENTRY



1 CONCEPT 1 A- PLAN  
 SCALE: 1" = 30'-0"

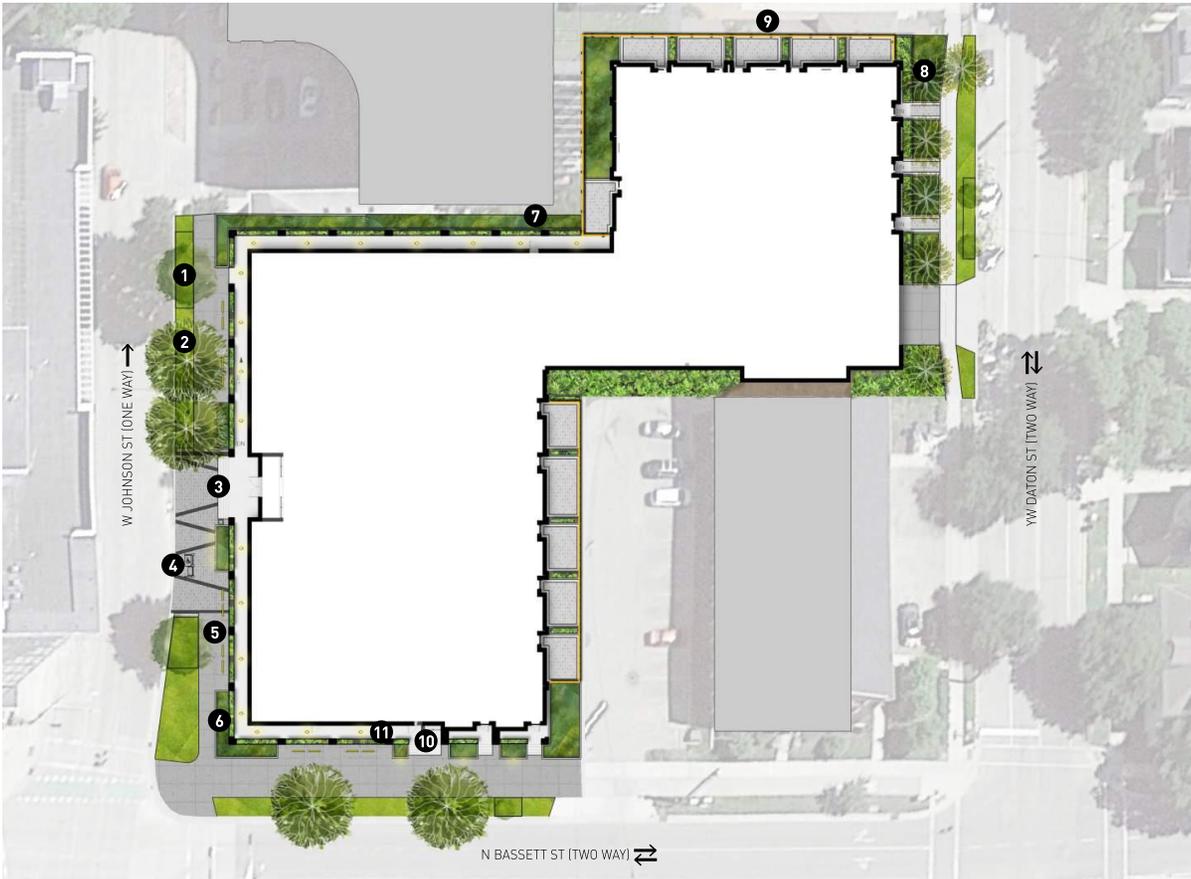


# LANDSCAPE CONCEPT - SITE - PROPOSED REVISIONS



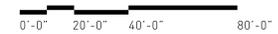
888 south michigan avenue  
 suite 1000 chicago, illinois 60605  
 tel 312.427.7240 fax 312.427.7241  
 www.site-design.com

**CORE SPACES JOHNSON AND BASSETT, MADISON , WISCONSIN**  
 Schematic Design, Project Number: 9591  
 Feb 9th, 2023



**LEGEND:**

- 1 PARKWAY W/ EXISTING TREE
- 2 PROPOSED SHADE TREE
- 3 ENTRY PLAZA W/ SPECIALTY PAVER
- 4 BENCH
- 5 BIKE RACKS
- 6 RAISED PLANTERS
- 7 PLANTER ALONG BUILDING FACADE
- 8 PROPOSED ORNAMENTAL TREE
- 9 LANDSCAPE SCREENING
- 10 PRIVATE ENTRY
- 11 LANDSCAPE LIGHTING



1 CONCEPT 1 A- PLAN  
 SCALE: 1" = 30'-0"



# LANDSCAPE CONCEPT PRECEDENTS

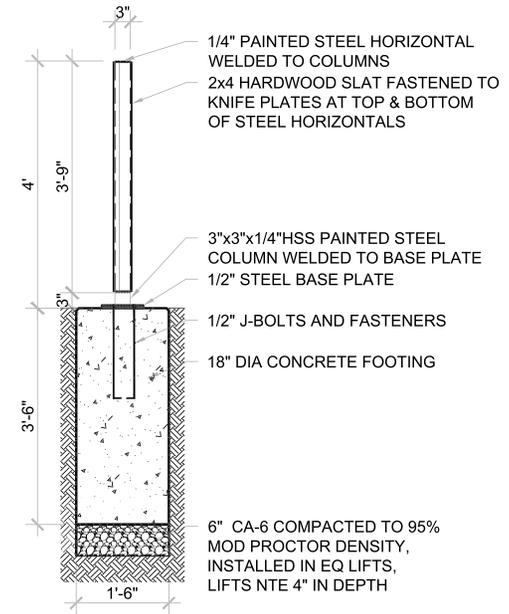
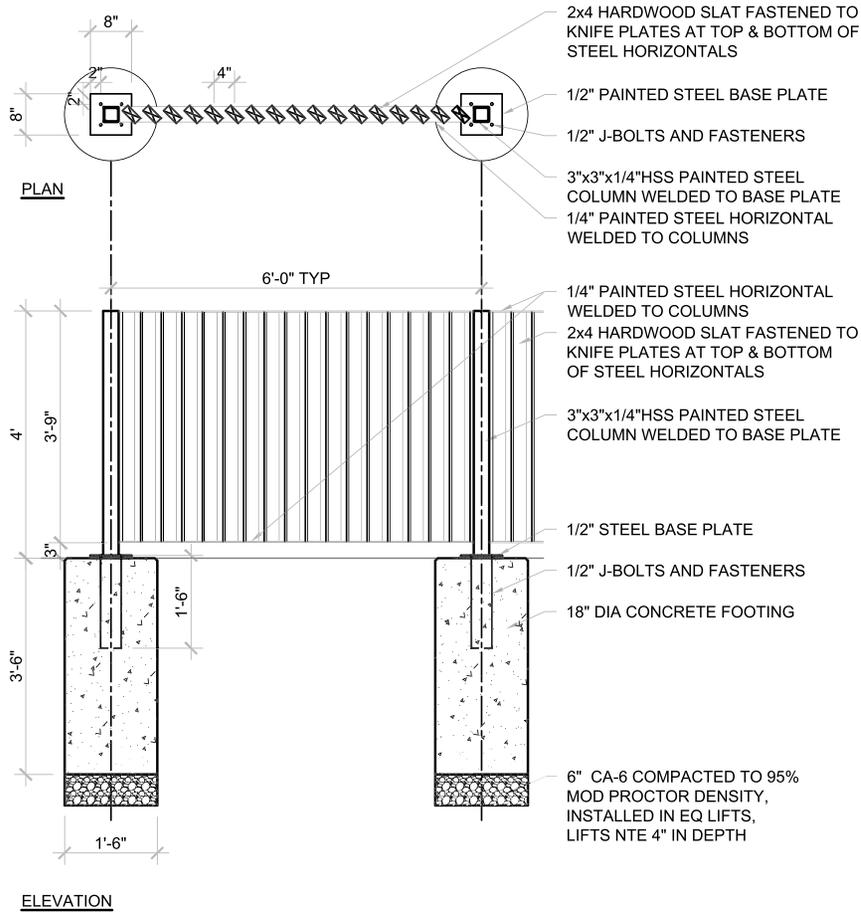


888 south michigan avenue  
suite 1000 chicago, illinois 60605  
tel 312.427.7240 fax 312.427.7241  
www.site-design.com

**CORE SPACES JOHNSON AND BASSETT, MADISON , WISCONSIN**  
Schematic Design, Project Number: 9591  
Feb 9th, 2023



# LANDSCAPE CONCEPT - FENCE DETAIL



**3** 4'H VERTICAL WOOD SLAT FENCE  
1/2" = 1'-0"

**4** 4'H VERTICAL WOOD SLAT FENCE POST DETAIL  
1/2" = 1'-0"

# LANDSCAPE CONCEPT - ISOMETRIC ROOFTOP RENDERINGS

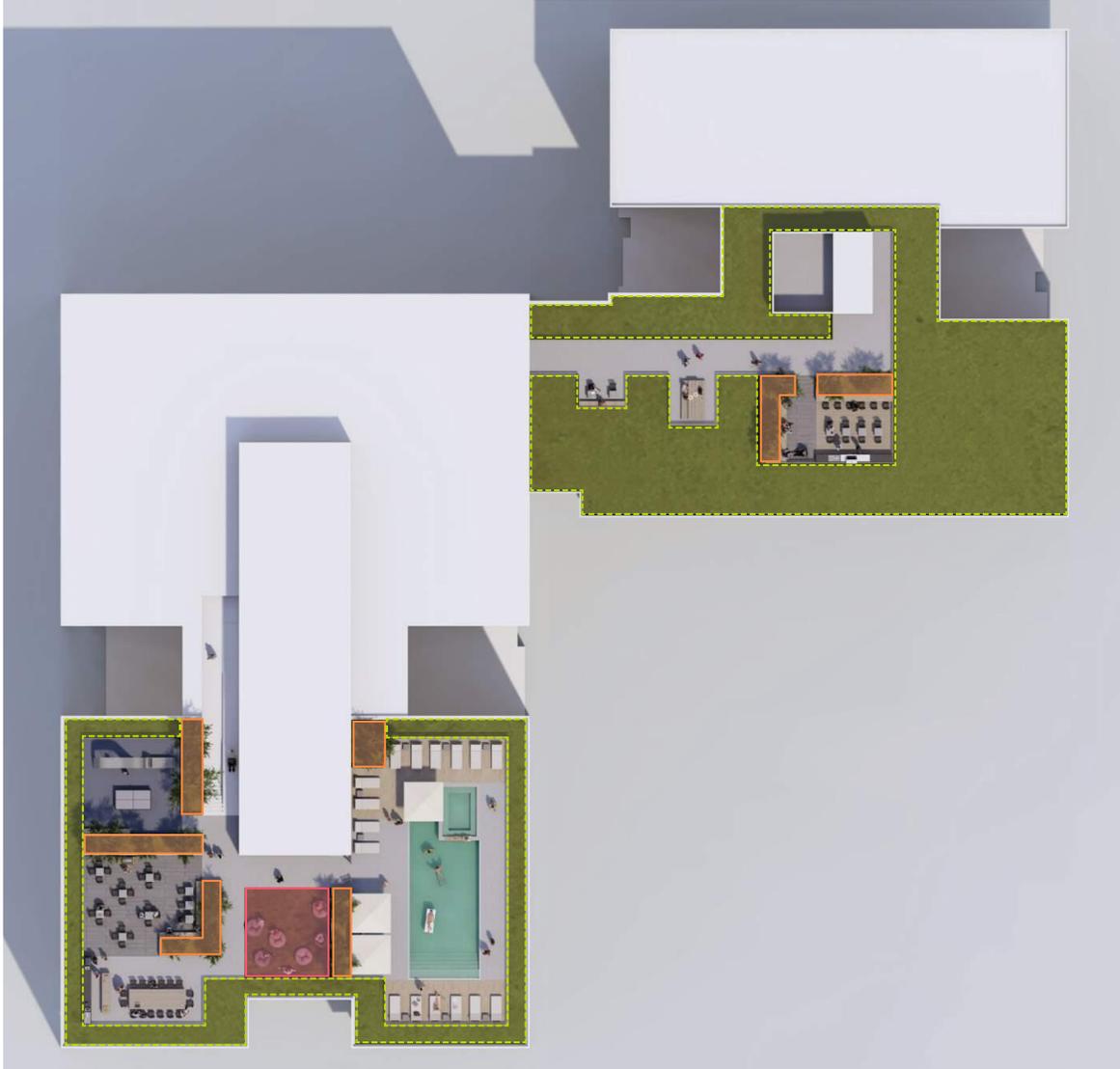


12 STORY ROOF



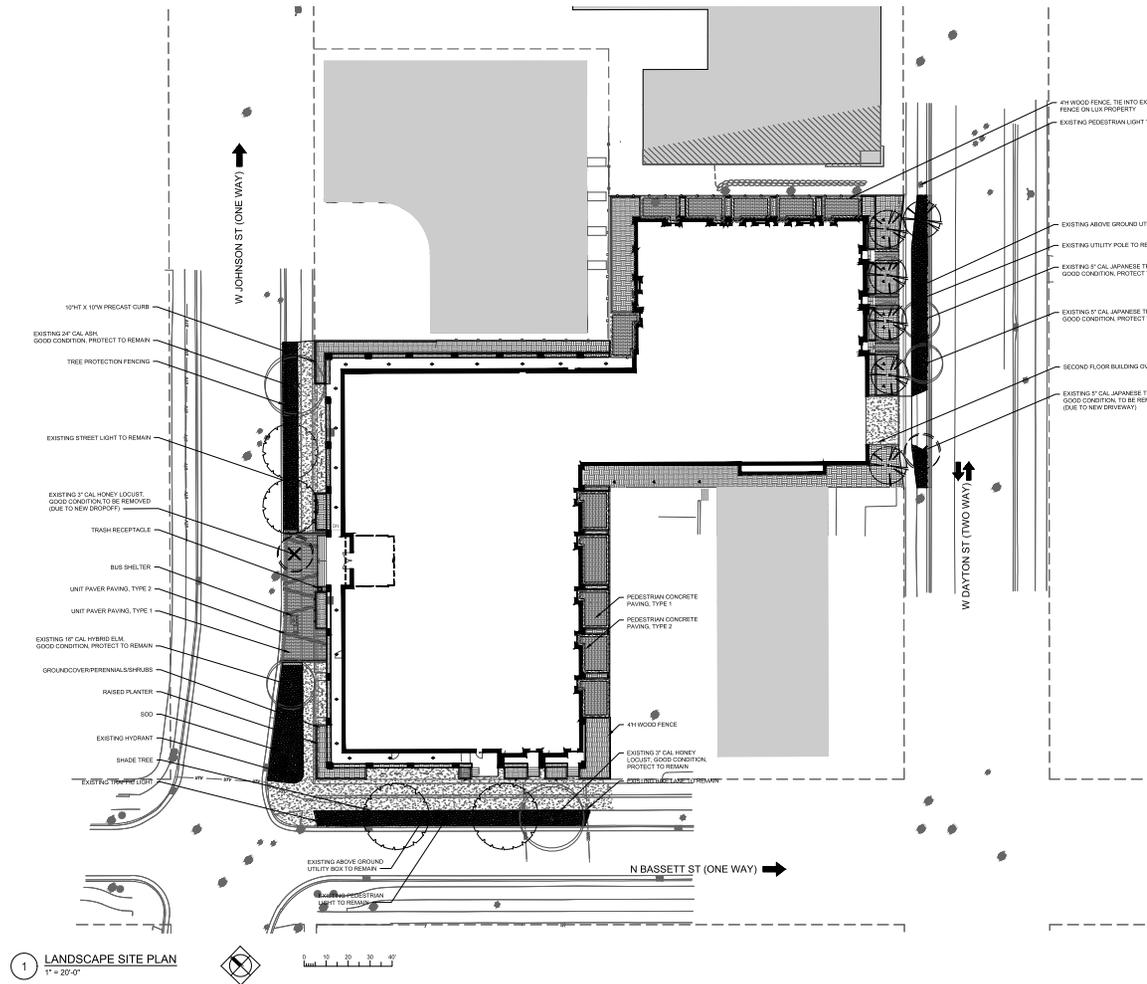
6 STORY ROOF

# LANDSCAPE CONCEPT - ROOFTOP LANDSCAPE PLAN



PLANT PALETTE - ROOF LEVELS				
CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT
<b>RAISED PLANTERS</b>				
UNDERSTORY TREES				
		<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	cont
		<i>Cercis canadensis</i>	Eastern Redbud	cont
		<i>Crataegus crus-galli</i> var. <i>inermis</i>	Thornless Cockspur Hawthorn	cont
DECIDUOUS SHRUBS				
		<i>Aronia melanocarpa</i> 'Morton'	Iroquois Beauty Chokeberry	cont
		<i>Ceanothus americanus</i>	New Jersey Tea	cont
		<i>Cornus sericea</i> 'Bergeson Compact'	Bergeson Compact Redosier Dogwood	cont
		<i>Diervilla lonicera</i>	Dwarf Bush-honeysuckle	cont
		<i>Hypericum kalmianum</i> 'Ames'	Ames St. Johnswort	cont
		<i>Rhus aromatica</i> 'Gro-Low'	Grow Low Fragrant Sumac	cont
		<i>Rosa rugosa</i> 'Meitozaura'	Raspberry Rugostar Rose	cont
EVERGREEN SHRUBS				
		<i>Pinus mugo</i> 'Valley Cushion'	Valley Cushion Mugo Pine	cont
ORNAMENTAL GRASSES, PERENNIALS, & GROUNDCOVERS				
		<i>Heuchera</i> 'Autumn Bride'	Autumn Bride Heuchera	cont
		<i>Pycnanthemum virginianum</i>	Mountain Mint	plug
		<i>Schizachyrium scoparium</i>	Little Bluestem	plug
		<i>Sporobolus heterolepis</i>	Prairie Dropseed	plug
<b>ARTIFICIAL TURF</b>				
<b>GREEN ROOF 6" MEDIA DEPTH</b>				
ORNAMENTAL GRASSES, PERENNIALS, & GROUNDCOVERS				
		<i>Agastache</i> 'Blue Fortune'	Blue Fortune Anise Hyssop	plug
		<i>Allium cernuum</i>	Nodding Onion	plug
		<i>Allium schoenoprasum</i> 'Forescate'	Forescate Chives	plug
		<i>Asclepias syriaca</i>	Common Milkweed	plug
		<i>Asclepias tuberosa</i>	Butterfly Weed	plug
		<i>Baptisia australis</i>	Blue False Indigo	cont
		<i>Coreopsis lanceolata</i>	Lance-leaved Coreopsis	seed
		<i>Coreopsis tinctoria</i>	Plains Coreopsis	seed
		<i>Dalea candida</i>	White Prairie Clover	seed
		<i>Dalea purpurea</i>	Purple Prairie Clover	plug
		<i>Echinacea pallida</i>	Pale Coneflower	plug
		<i>Echinacea purpurea</i>	Purple Coneflower	seed
		<i>Eryngium yuccifolium</i>	Rattlesnake Master	plug
		<i>Eupatorium perfoliatum</i>	Common Boneset	seed
		<i>Helopsis helianthoides</i>	Early Sunflower	seed
		<i>Heuchera</i> 'Autumn Bride'	Autumn Bride Heuchera	cont
		<i>Liatris spicata</i>	Dense Blazing Star	plug
		<i>Monarda fistulosa</i>	Wild Bergamot	plug
		<i>Monarda punctata</i>	Horse Mint	plug
		<i>Panicum virgatum</i>	Switchgrass	seed
		<i>Penstemon digitalis</i>	Foxglove Beardtongue	plug
		<i>Pycnanthemum virginianum</i>	Mountain Mint	plug
		<i>Ratibida pinnata</i>	Yellow Coneflower	seed
		<i>Rudbeckia hirta</i>	Black-eyed Susan	seed
		<i>Ruellia humilis</i>	Wild Petunia	plug
		<i>Schizachyrium scoparium</i>	Little Bluestem	plug
		<i>Solidago canadensis</i>	Canada Goldenrod	seed
		<i>Sporobolus heterolepis</i>	Prairie Dropseed	plug
		<i>Symphotrichum ericoides</i>	Heath Aster	seed
		<i>Symphotrichum laeve</i>	Smooth Blue Aster	seed
		<i>Symphotrichum novae-angliae</i>	New England Aster	seed
		<i>Symphotrichum oolentangiense</i>	Sky Blue Aster	seed
		<i>Verbena hastata</i>	Blue Vervain	seed
<b>BULBS</b>				
		<i>Allium sphaerocephalon</i>	Drumstick Allium	bulb
		<i>Crocus</i> 'Hokus Crocus' MIX	Hokus Crocus Crocus Mix	bulb
		<i>Narcissus</i> 'Gold Shoulder' MIX	Gold Shoulder Daffodil Mix	bulb

# LANDSCAPE CONCEPT - SITE



**LEGEND**

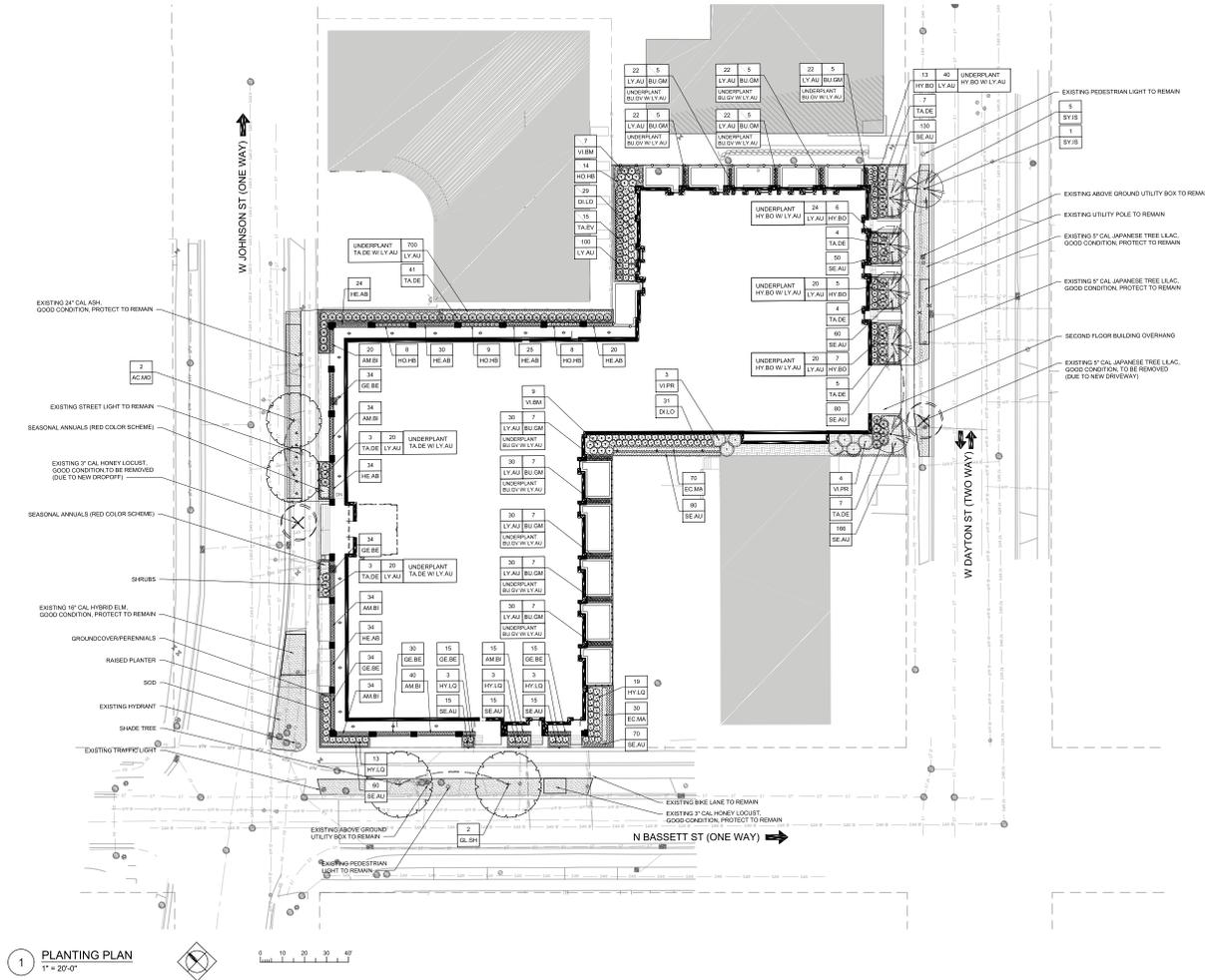
---	PROPERTY LINE
- - - -	PROJECT LIMIT LINE (OFFSET 10' FOR CLARITY)
[Pattern]	PEDESTRIAN CONCRETE PAVING, TYPE 1
[Pattern]	PEDESTRIAN CONCRETE PAVING, TYPE 2
[Pattern]	UNIT PAVEMENT, TYPE 1
[Pattern]	UNIT PAVEMENT, TYPE 2
[Pattern]	RAISED PLANTER
[Symbol]	BENCH
[Symbol]	BUS SHELTER
[Symbol]	SHADE TREE
[Symbol]	ORNAMENTAL TREE
[Symbol]	SHRUBS
[Symbol]	GROUNDCOVER/PERENNIALS
[Symbol]	SOD

- NOTES**
- ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY CITY FORESTRY BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRING APPROVAL AS A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVALS REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION ON THE BEHALF OF PUBLIC WORKS AND CITY FORESTRY WILL INCLUDE A MEMORANDUM OF A 14-DAY REVIEW PERIOD WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN WHOSE DISTRICT IS AFFECTED BY THE STREET TREE REMOVALS PRIOR TO A TREE REMOVAL PERMIT BEING ISSUED.
  - CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISRUPT, SCALP, OR IMPAIR THE HEALTH OF ANY STREET TREE. CONTRACTOR SHALL OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREES. CONTRACTOR SHALL REQUIRE USING SMALLER EQUIPMENT AND LOADING AND UNLOADING MATERIAL IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES EITHER ABOVE OR BELOW GROUND SHALL BE REPAIRED IMMEDIATELY TO CITY FORESTRY AT 800 DRUMHILL. PENALTIES AND REMEDIATION SHALL BE REQUIRED.
  - AS DEFINED BY THE SECTION 107 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, NO EXCAVATION IS PERMITTED WITHIN 5 FEET OF THE TRUNK OF THE STREET TREE FOR WHICH CITY FORESTRY HAS ISSUED A PERMIT. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY AT 800 DRUMHILL PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL ASSESS THE IMPACT TO THE TREE AND TO ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: <https://www.cityofmadison.com/business/specs/cfm-section107-108-of-city-of-madison-standard-specifications-for-public-works-construction.html>
  - SECTION 107.105 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL BE FOLLOWED BY CONTRACTOR. THE STORAGE OF PAINTS, VEHICLES, CONSTRUCTION EQUIPMENT, BUILDING MATERIALS, REFUSE, EXCAVATED SPILLS OR LEAKING OF POTENTIALLY HAZARDOUS MATERIALS OR OILS WITHIN THE PROTECTION ZONE IS PROHIBITED.
  - ON THIS PROJECT, STREET TREE PROTECTION ZONE FENCING IS REQUIRED. THE FENCING SHALL BE ERRECTED BEFORE THE GRADATION, GRADING OR CONSTRUCTION BEGINS. THE FENCING SHALL INCLUDE THE ENTIRE WIDTH OF STRIPES AND EXTEND AT LEAST 5 FEET ON BOTH SIDES OF THE OUTSIDE EDGE OF THE TREE TRUNK. DO NOT REMOVE THE FENCING TO ALLOW FOR DELIVERIES OR EQUIPMENT ACCESS THROUGH THE TREE PROTECTION ZONE.
  - STREET TREE PRUNING SHALL BE COORDINATED WITH CITY FORESTRY AT A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT. CONTACT CITY FORESTRY AT 800 DRUMHILL. PRUNING SHALL FOLLOW THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300-PART 1 STANDARDS FOR PRUNING.

# LANDSCAPE CONCEPT - SITE

**LEGEND**

- PROPERTY LINE
- PROJECT LIMIT LINE (OFFSET 10' FOR CLARITY)
- RAISED PLANTER
- SHADE TREE
- ORNAMENTAL TREE
- SHRUB
- GROUND COVER/PERENNIALS
- SOD



1 PLANTING PLAN  
1" = 20'-0"

# LANDSCAPE CONCEPT - PLANTING SCHEDULE

PLANT SCHEDULE - GROUND FLOOR							
CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	POINTS	REMARKS
<b>TREES - PARKWAY</b>							
AC.MO	2	<i>Acer miyabei</i> 'Morton'	State Street Miyabe Maple	B&B	2' cal	70	matching heads
GL.SH	2	<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Shademaster'	Shademaster Honeylocust	B&B	2' cal	70	matching heads
SY.IS	1	<i>Syringa reticulata</i> 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	B&B	2' cal	35	
<b>TREES - INTERIOR</b>							
SY.IS	5	<i>Syringa reticulata</i> 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	B&B	2' cal	175	matching heads
<b>EVERGREEN SHRUBS</b>							
BU.GM	80	<i>Thuja x media</i> 'Green Mountain'	Green Mountain Boxwood	cont	#5, 15-18" w, 24-30" ht.	240	18" o.c.
TA.DE	74	<i>Taxus x media</i> 'Densiformis'	Dense Yew	cont	min 24" ht.	296	42" o.c.
TA.EV	15	<i>Taxus x media</i> 'Everlow'	Everlow Yew	cont	min 24" w	90	36" o.c.
<b>DECIDUOUS SHRUBS</b>							
DIL.O	60	<i>Diervilla lonicera</i>	Dwarf Bush Honeysuckle	cont	#3, min 18" ht.	180	36" o.c.
HY.BO	31	<i>Hydrangea paniculata</i> 'Ikubo' BOBO	Bobo Panicle Hydrangea	cont	#3, min 18" ht.	93	30" o.c.
HY.LQ	41	<i>Hydrangea paniculata</i> 'SMHPLQ'	Little Quickfire Panicle Hydrangea	cont	#5, min 24" ht.	123	36" o.c.
VIBM	16	<i>Viburnum dentatum</i> 'Christom'	Blue Muffin Arrowwood Viburnum	cont	#5, min 30" ht.	48	42" o.c.
VIPR	7	<i>Viburnum prunifolium</i>	Blackhaw Viburnum	B&B	min 5' ht x w	21	8' o.c.
<b>ORNAMENTAL GRASSES &amp; PERENNIALS</b>							
AM.BI	177	<i>Amsonia</i> 'Blue Ice'	Blue Ice Blue Star	cont	#1	354	12" o.c.
EC.MA	100	<i>Echinacea purpurea</i> 'Magnus'	Magnus Purple Coneflower	cont	#1	200	18" o.c.
GE.BE	162	<i>Geranium</i> 'Bevan's Variety'	Bevan's Cranebill	cont	#1	324	12" o.c.
HE.AB	187	<i>Heuchera</i> 'Autumn Bride'	Autumn Bridge Heuchera	cont	#1	334	12" o.c.
HO.HB	39	<i>Hosta</i> 'Hatspen Blue'	Hatspen Blue Hosta	cont	#1	78	24" o.c.
<b>GROUND COVERS</b>							
LY.AU	1204	<i>Lysimachia nummularia</i> 'Aurea'	Golden Creeping Jenny	cell	4" pot	-	10" o.c.
SE.AU	741	<i>Sesleria autumnalis</i>	Autumn Moor Grass	cont	#1, min 12" ht.	-	15" o.c.
<b>SEASONAL ANNUALS (RED &amp; WHITE COLOR SCHEME)</b>							
-	-	-	To be determined by owner pending season	pot	-	-	-
						TOTAL POINTS	2,526

## 1 PLANTING SCHEDULE - GROUND LEVEL

PLANT SCHEDULE - LEVEL 6							
CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	SPACING	REMARKS
<b>ORNAMENTAL TREES</b>							
RH.TY	3	<i>Rhus typhina</i>	Staghorn Sumac	cont/B&B	6" ht.		rootball max 24" in depth
<b>ORNAMENTAL GRASSES &amp; PERENNIALS</b>							
AM.BI	28	<i>Amsonia</i> 'Blue Ice'	Blue Ice Blue Star	cont	#1	15" o.c.	15" o.c.
HE.AB	21	<i>Heuchera</i> 'Autumn Bride'	Autumn Bridge Heuchera	cont	#1	15" o.c.	15" o.c.
SE.AU	33	<i>Sesleria autumnalis</i>	Autumn Moor Grass	cont	#1	15" o.c.	15" o.c.
<b>LIVE ROOF - SCHOOL PRIDE MIX GREENROOF TRAY PLANTING: 5,000 SF</b>							
-	-	<i>Sedum acre</i> 'Oliver's Gold'	Oliver's Gold Stonecrop	carpet	-	-	min. 95% coverage
-	-	<i>Sedum album</i> 'Coral Carpet'	Coral Carpet Stonecrop	carpet	-	-	
-	-	<i>Sedum sexangulare</i> 'Elatum'	Elatum Stonecrop	carpet	-	-	
-	-	<i>Sedum spurium</i> 'John Creech'	John Creech Stonecrop	carpet	-	-	
<b>ACCENT PLANTS (approx. 1 per every 2 modules)</b>							
-	-	<i>Allium senescens</i> subsp. <i>montanum</i>	Allium	4" pot	plug		
-	-	<i>Euphorbia myrsinites</i>	Blue Spurge	4" pot	plug		
-	-	<i>Sedum spectabile</i> 'Brilliant'	Brilliant Stonecrop	4" pot	plug		
-	-	<i>Sedum spectabile</i> 'Star Dust'	Star Dust Stonecrop	4" pot	plug		

Note: Accent Plants to be pre-grown into sedum carpets  
 Note: Sedum Carpet from Live Roof or approved equal

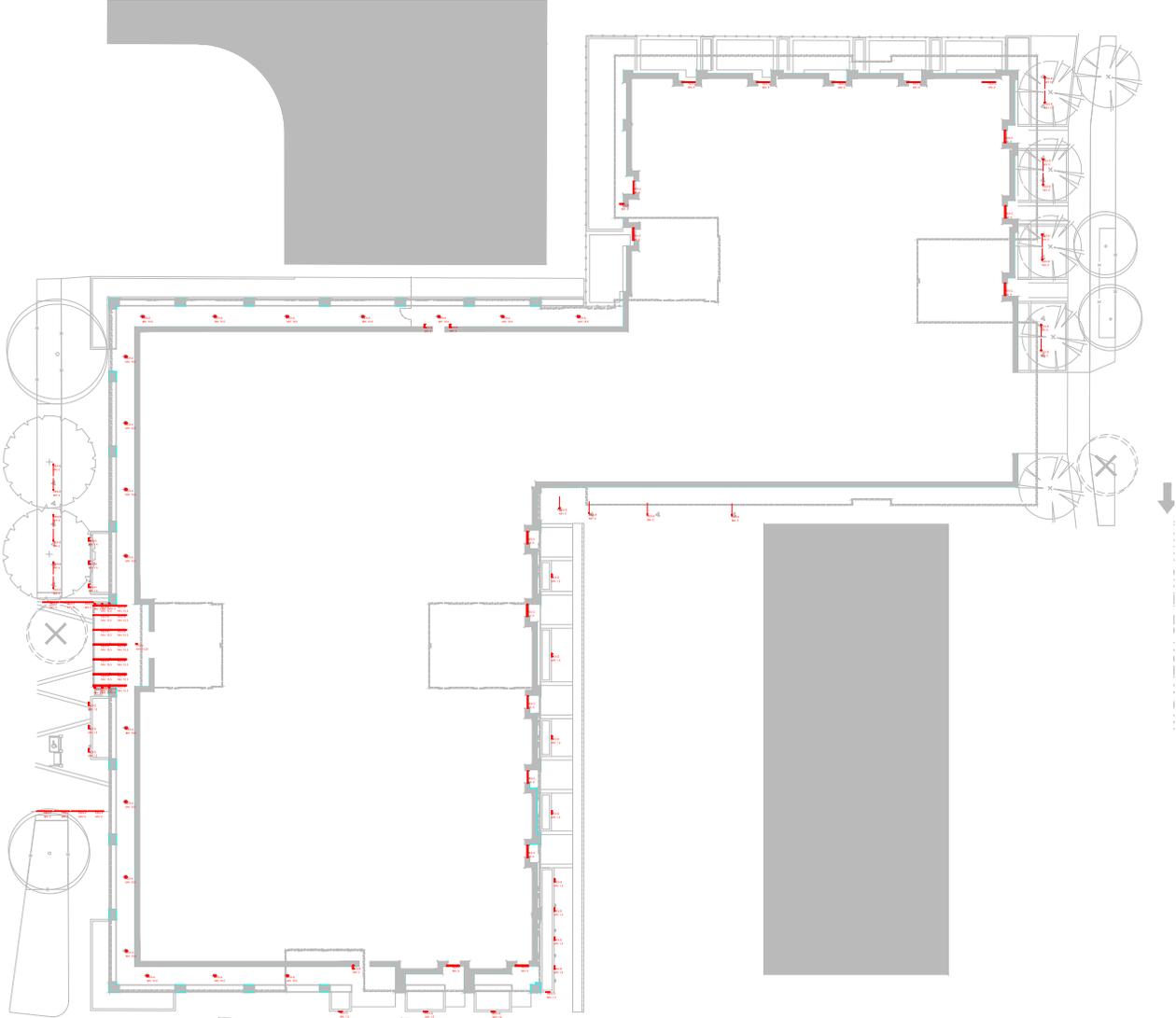
## 2 PLANTING SCHEDULE - LEVEL 6

PLANT SCHEDULE - LEVEL 12							
CODE	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	SPACING	REMARKS
<b>ORNAMENTAL TREES</b>							
AM.AB	5	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	cont/B&B	6" ht.		rootball max 24" in depth
RH.TY	8	<i>Rhus typhina</i>	Staghorn Sumac	cont/B&B	6" ht.		rootball max 24" in depth
<b>DECIDUOUS SHRUBS</b>							
DIL.O	23	<i>Diervilla lonicera</i> 'Kodiak Orange'	Kodiak Orange Dwarf Bush Honeysuckle	cont	#5, 24" w	36" oc	
RO.RU	32	<i>Rosa rugosa</i> 'Vellozaure'	Raspberry Rugostar Rugosa Rose	cont	#5, 24" w	36" oc	
<b>ORNAMENTAL GRASSES &amp; PERENNIALS</b>							
AL.SB	34	<i>Allium</i> 'Summer Beauty'	Summer Beauty Ornamental Onion	cont	#1		15" o.c.
AS.TU	17	<i>Asclepias tuberosa</i>	Butterflyweed	cont	#1		18" o.c.
C.ANE	34	<i>Calamintha nepeta</i> subsp. <i>Nepeta</i>	Lesser Calamint	cont	#1		15" o.c.
EC.TE	26	<i>Echinacea tennesseensis</i>	Tennessee Coneflower	cont	#1		18" o.c.
RU.AG	17	<i>Rudbeckia</i> 'American Goldrush'	American Goldrush Black Eyed Susan	cont	#1		18" o.c.
SE.AU	70	<i>Sesleria autumnalis</i>	Autumn Moor Grass	cont	#1		15" o.c.
SP.HE	42	<i>Sporobolus heterolepis</i>	Prairie Dropseed	cont	#1		18" o.c.
<b>LIVE ROOF - SCHOOL PRIDE MIX GREENROOF TRAY PLANTING: 1,600 SF</b>							
-	-	<i>Sedum acre</i> 'Oliver's Gold'	Oliver's Gold Stonecrop	carpet	-	-	
-	-	<i>Sedum album</i> 'Coral Carpet'	Coral Carpet Stonecrop	carpet	-	-	
-	-	<i>Sedum sexangulare</i> 'Elatum'	Elatum Stonecrop	carpet	-	-	
-	-	<i>Sedum spurium</i> 'John Creech'	John Creech Stonecrop	carpet	-	-	
<b>ACCENT PLANTS (approx. 1 per every 2 modules)</b>							
-	-	<i>Allium senescens</i> subsp. <i>montanum</i>	Allium	4" pot	plug		
-	-	<i>Euphorbia myrsinites</i>	Blue Spurge	4" pot	plug		
-	-	<i>Sedum spectabile</i> 'Brilliant'	Brilliant Stonecrop	4" pot	plug		
-	-	<i>Sedum spectabile</i> 'Star Dust'	Star Dust Stonecrop	4" pot	plug		

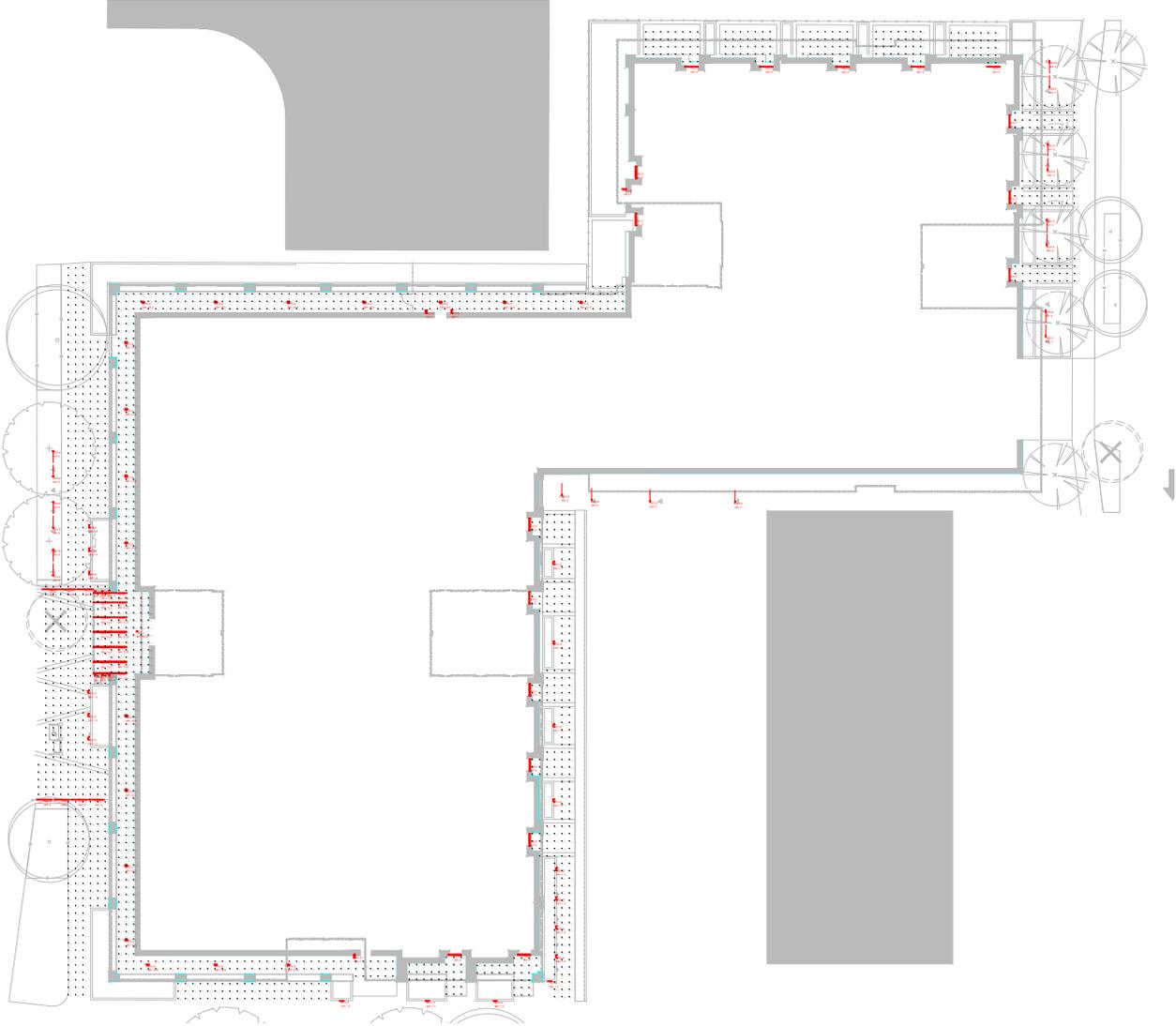
Note: Accent Plants to be pre-grown into sedum carpets  
 Note: Sedum Carpet from Live Roof or approved equal

## 3 PLANTING SCHEDULE - LEVEL 12

# LIGHTING CONCEPT - SITE



# LIGHTING CONCEPT - SITE PHOTOMETRIC

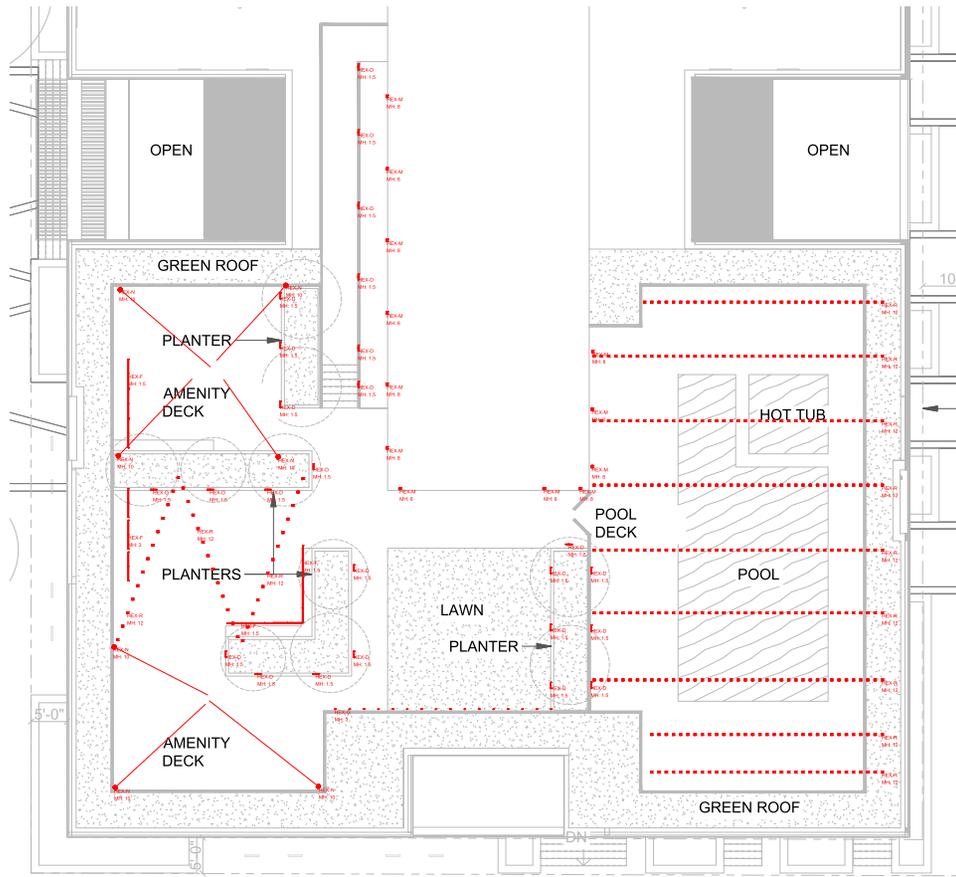


# LIGHTING CONCEPT - SITE FIXTURE SCHEDULE

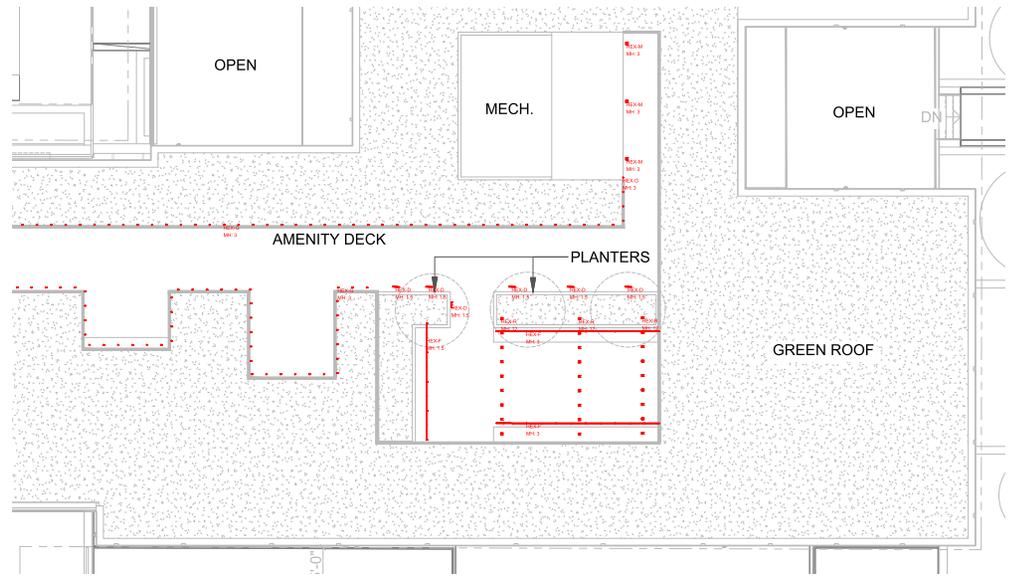
Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	18	HEXA_EV04_30_10 AR MWD LD	Single	EV04_30_10 AR MWD LD	HEX-A	0.900	852	8.6	156.4
	4	AT6510-BK - Slate	Single	AT6510-BK HEX-B Opt2	HEX-B	0.900	1104	20.6	82.4
	17	OW2484-L35K-H	Single	OW2480	HEX-C	0.900	1952	39.5	671.5
	18	S6240W	Single	S6240W_14	HEX-D	0.900	422	13.5	243
	18	LED-e66-MFL-12-ITL85922	Single	NS-LED-e66-MFL-12, AR-LED-TR-e66-MFL-12, AR-LED-RM-e66-MFL-12, DS-LED-e66-MFL-12	HEX-E	0.900	458	6.77	121.86
	7	LL18WET-T-30K_IESNA2002	Single	LL18WET-T-30K	HEX-F	0.900	484	6.1	42.7
	6	LULF30K705	Single	LULF30K705	HEX-G	0.900	94	1.95	11.7
	14	ACL3ST4LS40UHE	Single	ACL3ST4LS40UHE	HEX-H	0.900	2261	19	266
	1	Rosco-Image-Spot-3000K-Medium	Single		HEX-J	0.900	479	29.26	29.26

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Bike Stall_S	Illuminance	Fc	1.65	3.1	0.3	5.50	10.33
Porch_E_1	Illuminance	Fc	3.03	9.3	0.5	6.06	18.60
Porch_E_2	Illuminance	Fc	3.05	9.3	0.5	6.10	18.60
Porch_E_3	Illuminance	Fc	2.95	9.2	0.4	7.38	23.00
Porch_N_1	Illuminance	Fc	2.93	9.3	0.1	29.30	93.00
Porch_N_2	Illuminance	Fc	3.12	9.1	0.1	31.20	91.00
Porch_N_3	Illuminance	Fc	3.19	9.1	0.1	31.90	91.00
Porch_N_4	Illuminance	Fc	2.91	9.1	0.1	29.10	91.00
Porch_N_5	Illuminance	Fc	2.98	9.1	0.1	29.80	91.00
Porch_S_1	Illuminance	Fc	3.36	9.5	0.1	33.60	95.00
Porch_S_2	Illuminance	Fc	3.45	8.6	0.1	34.50	86.00
Sidewalk_W	Illuminance	Fc	5.42	41.3	0.0	N.A.	N.A.
Walkway_1	Illuminance	Fc	6.81	38.4	0.3	22.70	128.00
Walkway_2	Illuminance	Fc	7.16	133.8	0.2	35.80	669.00
Walkway_3	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.

# LIGHTING CONCEPT - ROOF

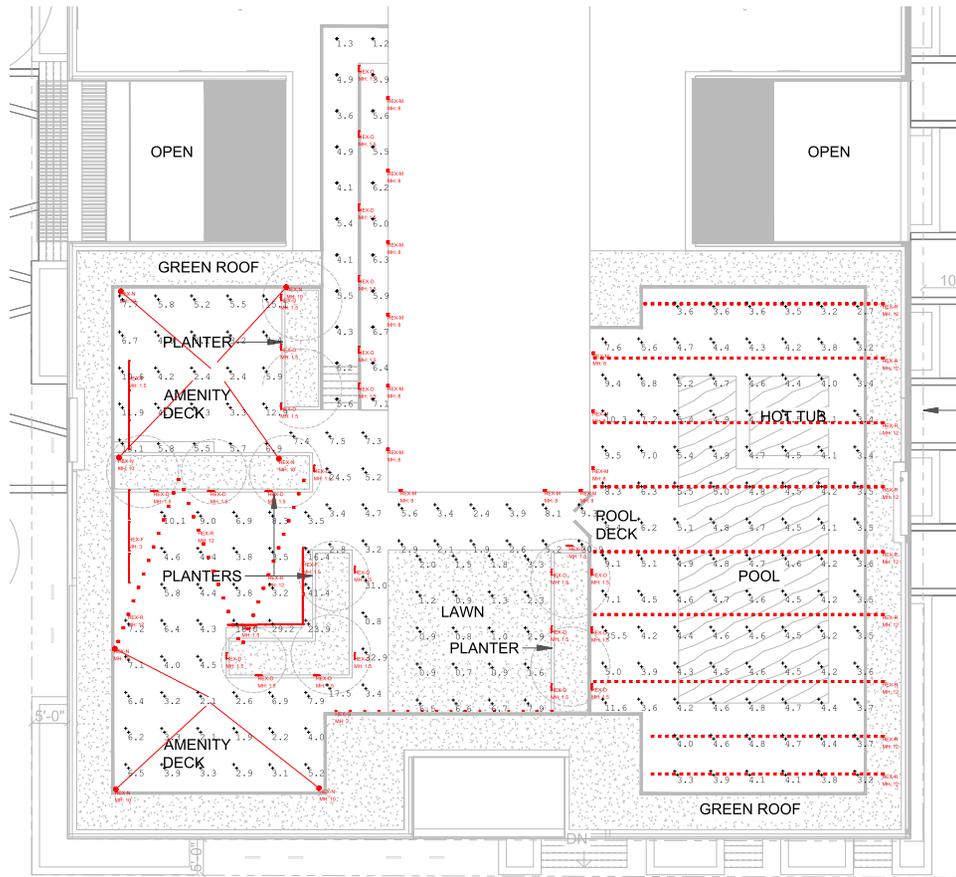


12 STORY ROOF

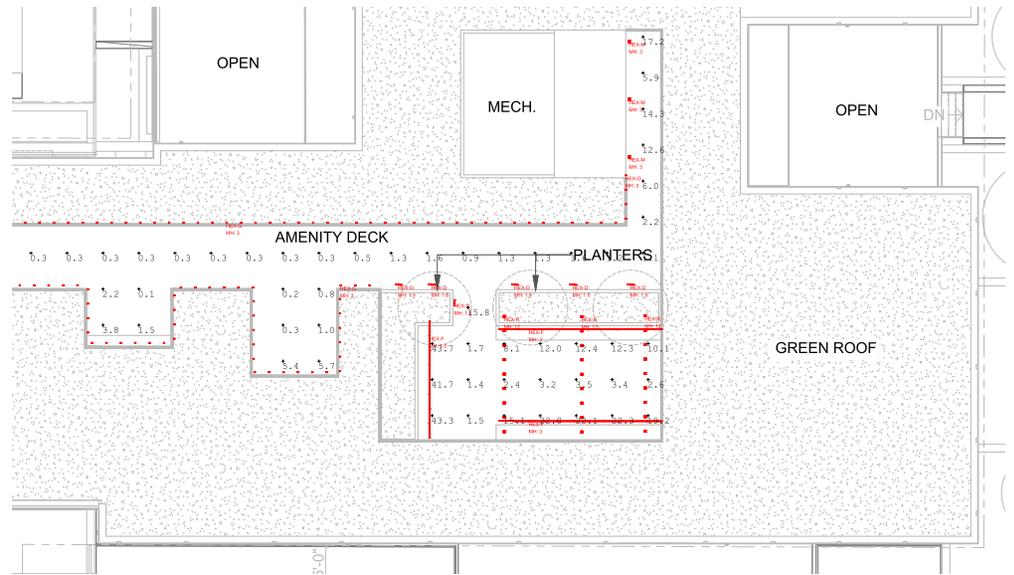


6 STORY ROOF

# LIGHTING CONCEPT - ROOF PHOTOMETRIC



12 STORY ROOF



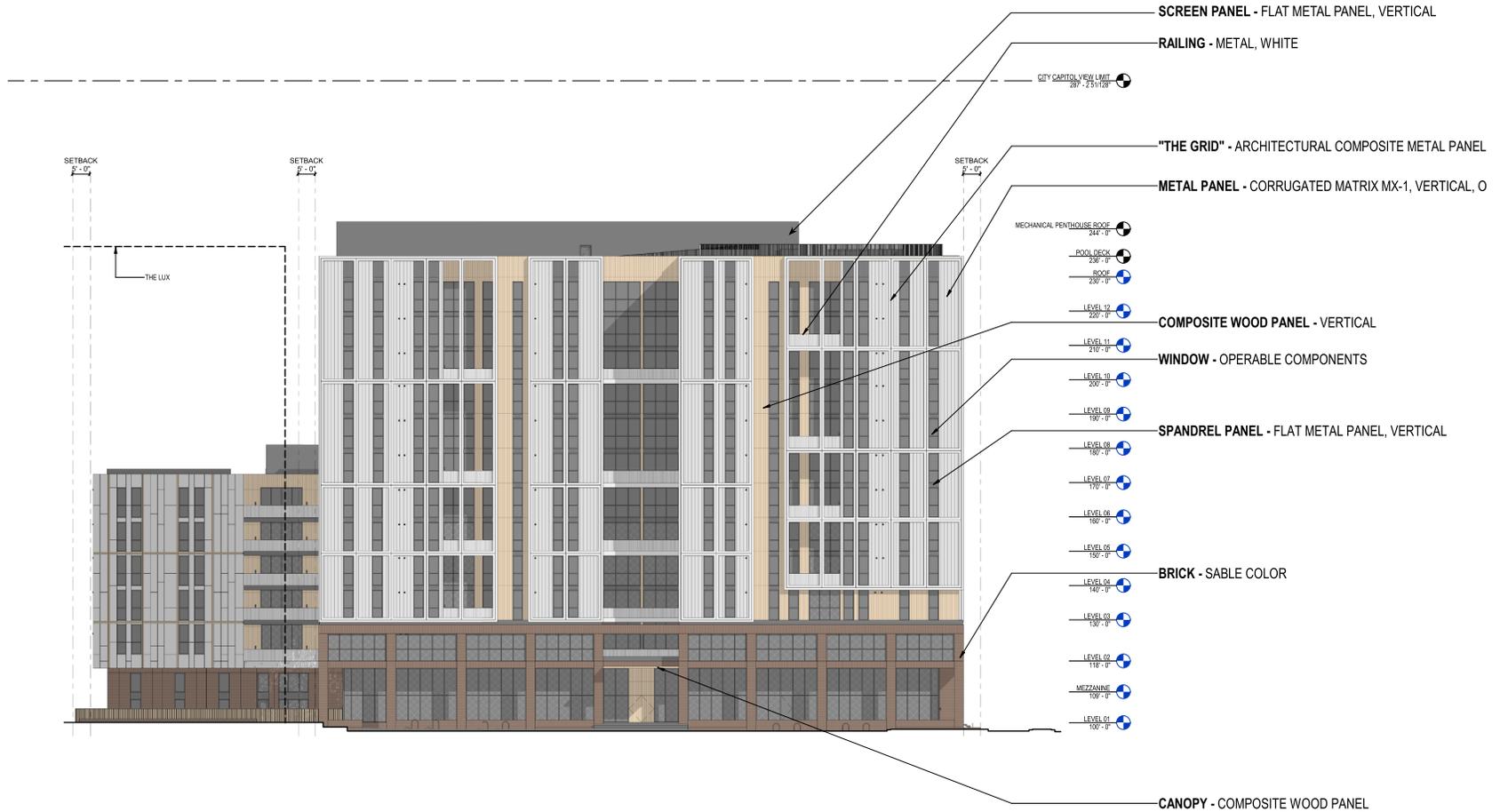
6 STORY ROOF

# LIGHTING CONCEPT - ROOF FIXTURE SCHEDULE

						Lumens	Watts	Watts	
⊙	7	HEX-N_EQ111E046LDT440K	Single	EQ111E046LDT440K	HEX-N	0.900	5605	46.41	324.87
⊕	411	7828-LSL2-B-12-V-30-F	Single	LSL2-B-12-V-30-F	HEX-R	0.900	73	0.8	328.8
⊕	4	LL18WET-T-30K_IESNA2002_1	Single	LL18WET-T-30K 2ft	HEX-F	0.450	484	6.1	24.4
⊕	15	102171228CHI-032 GB 700OWSPIT	Single	700OWSPITSC-LED830	HEX-M	0.900	803	26.2	393
⊕	109	LULF30K705	Single	LULF30K705	HEX-G	0.900	94	1.95	212.55
⊕	24	LL18WET-T-30K_IESNA2002	Single	LL18WET-T-30K	HEX-F	0.450	484	6.1	146.4
⊕	31	S6240W	Single	S6240W_14	HEX-D	0.900	422	13.5	418.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
NE_Dining	Illuminance	Fc	8.44	21.9	1.1	7.67	19.91
NE_Walkway	Illuminance	Fc	2.72	17.2	0.1	27.20	172.00
S_Dining	Illuminance	Fc	7.32	41.4	1.9	3.85	21.79
S_Grass Lounge	Illuminance	Fc	2.59	7.9	0.7	3.70	11.29
S_PingPong	Illuminance	Fc	6.48	15.1	2.4	2.70	6.29
S_Pool	Illuminance	Fc	5.10	35.5	2.7	1.89	13.15
S_Stairs and Ramp	Illuminance	Fc	5.03	7.1	1.2	4.19	5.92
S_Walkway	Illuminance	Fc	8.84	32.9	0.8	11.05	41.13

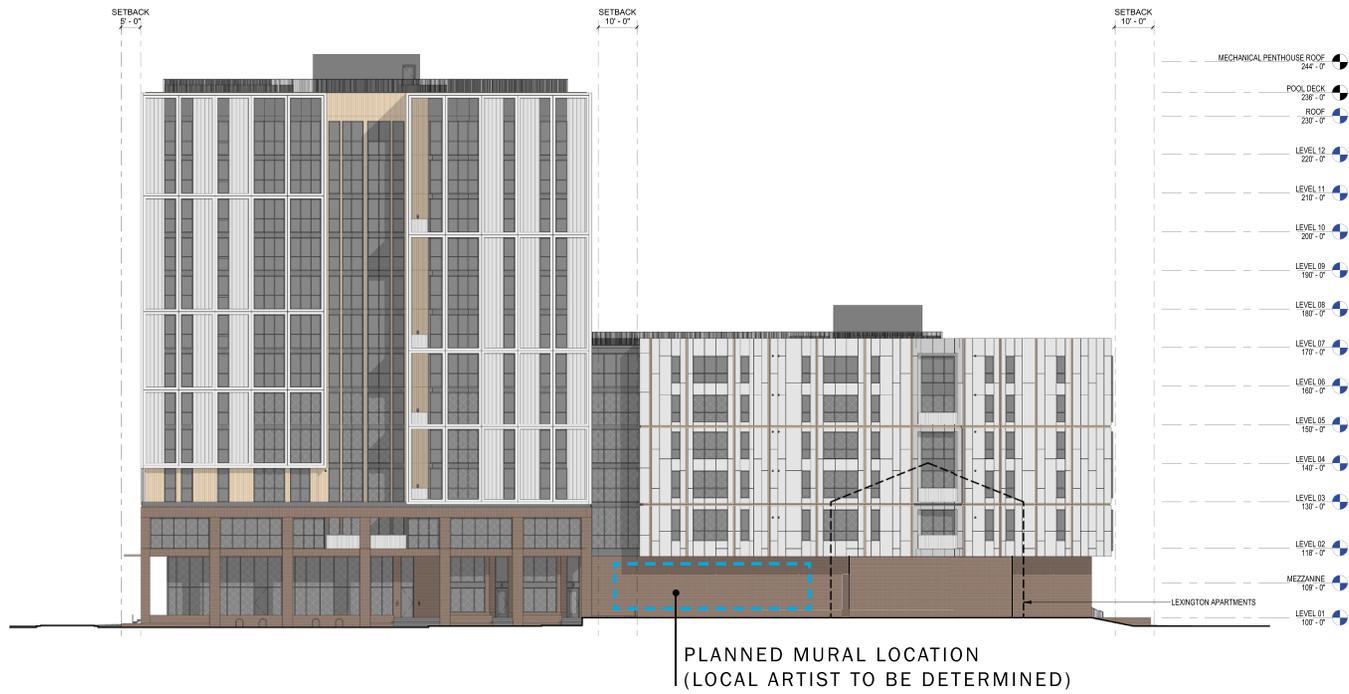
# ELEVATION - NW / JOHNSON STREET



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

# ELEVATION - SW / BASSETT STREET

CITY CAPITOL VIEW LIMIT  
287' - 2.51128'



① ELEVATION - SOUTH  
1/116" = 1'-0"  
0 4 8 16 32  
SCALE: 1/116" = 1'-0"

# ELEVATION - SE / DAYTON STREET

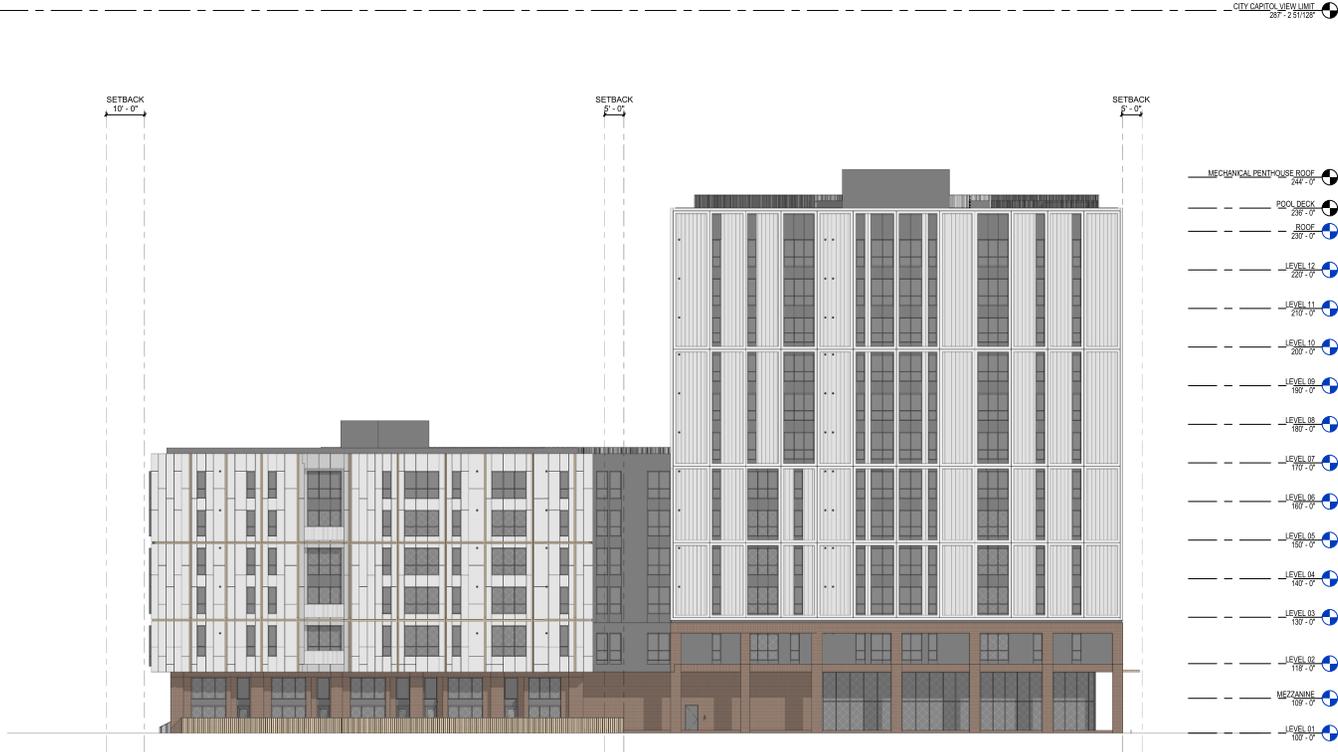
CITY CARTON VIEW LIMIT  
287 - 2311281



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

# ELEVATION - NE

CITY CAPTION VIEW LIMIT  
20'-2 1/2" (20'-2 1/2")



① ELEVATION - NORTH  
1/16" = 1'-0"  
0 4 8 16 32  
SCALE: 1/16" = 1'-0"

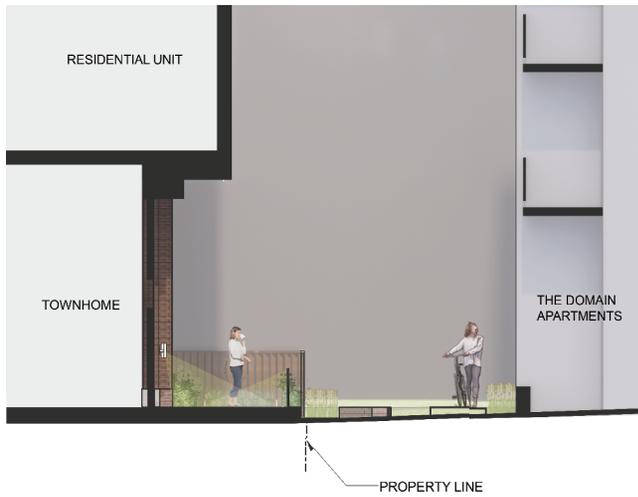
# ENLARGED TOWNHOME ELEVATIONS AND SECTIONS



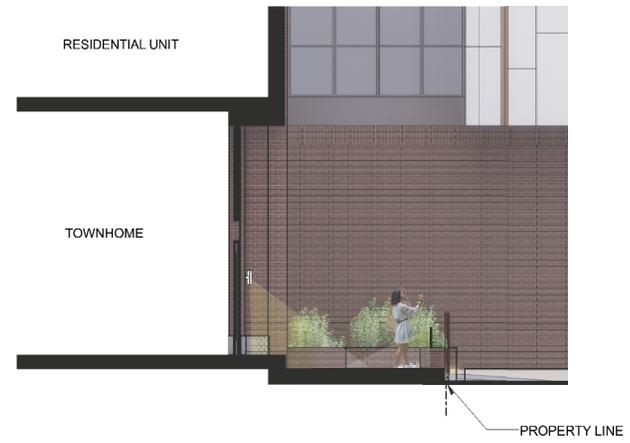
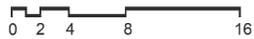
TOWNHOME ELEVATION - AT DOMAIN PROPERTY LINE



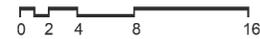
TOWNHOME ELEVATION - AT LEXINGTON PROPERTY LINE



SECTION A - AT DOMAIN PROPERTY LINE



SECTION B - AT LEXINGTON PROPERTY LINE



# PERSPECTIVE - JOHNSON & BASSETT



# ELEVATION PERSPECTIVE - JOHNSON ST.



PERSPECTIVE - BASSETT ST.



PERSPECTIVE - DAYTON ST.



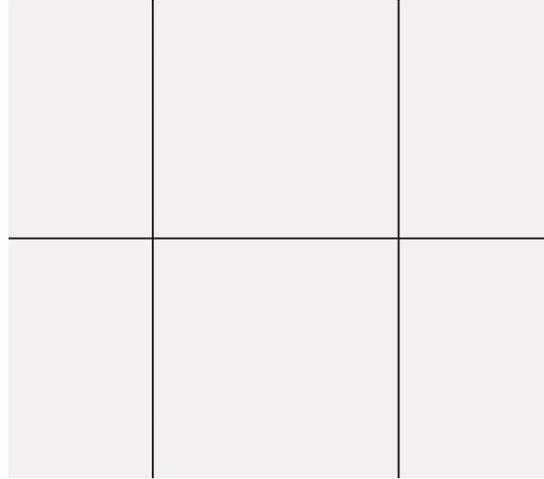
# ELEVATION PERSPECTIVE - DAYTON ST.



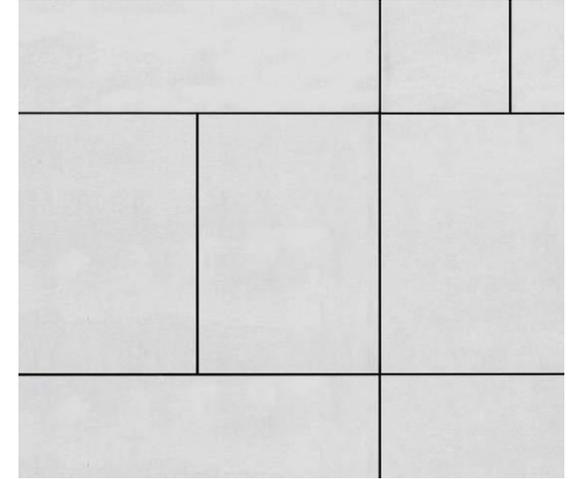
# EXTERIOR MATERIALS



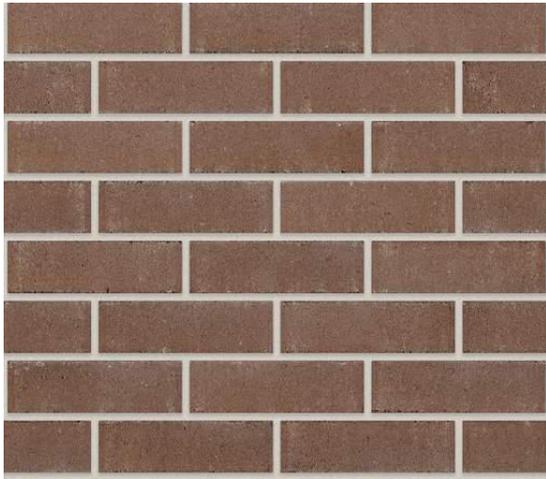
**COMPOSITE WOOD:** COMPOSITE WOOD SIDING, 5 1/2" VERTICAL PLANKS, BASIS OF DESIGN - NEWTECHWOOD TONGUE AND GROOVE, JAPANESE OAK



**METAL PANEL (GRID):** ALUMINUM COMPOSITE METAL PANEL, BASIS OF DESIGN - ALPOLIC PE, WHITE



**FIBER CEMENT PANEL:** FIBER CEMENT PANEL, REVEAL TRIM BASIS OF DESIGN - JAMES HARDIE ARCHITECTURAL COLLECTION, OFF-WHITE



**BRICK:** MODULAR CONCRETE BRICK RUNNING BOND WITH SOLDIER COURSES BASIS OF DESIGN - COUNTY MATERIALS HERITAGE COLLECTION, SABLE



**METAL PANEL (INFILL):** SINGLE SKIN METAL PANEL VERTICAL 2" BOX RIB, BASIS OF DESIGN - MORIN MATRIX MX-1, OFF-WHITE



**METAL PANEL (MECHANICAL SCREEN):** INSULATED METAL PANEL, BASIS OF DESIGN - CENTRIA VERSAWALL V+, DARK GRAY







NOT FOR  
 CONSTRUCTION



NOTES

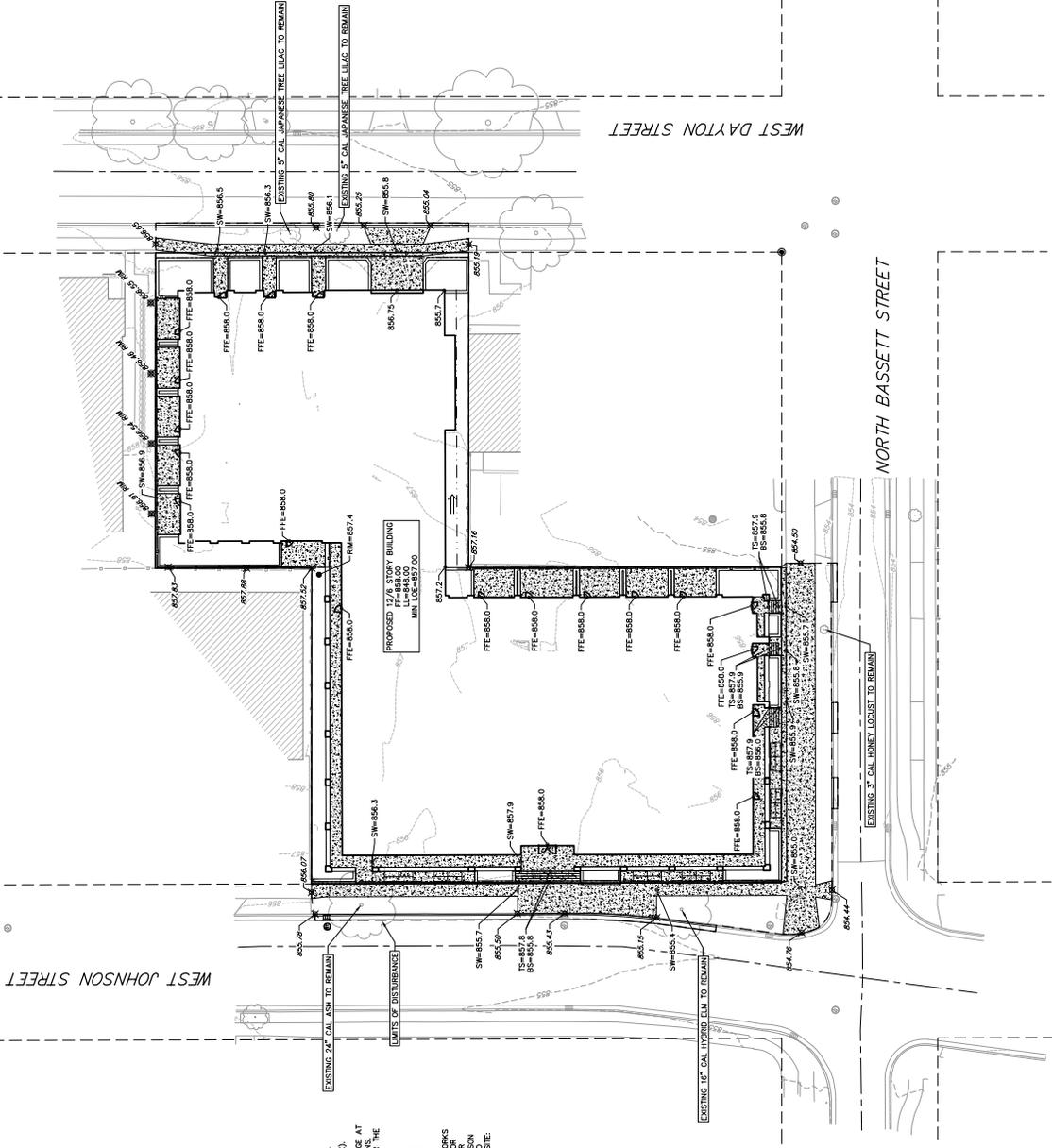
CITY OF MADISON LAND USE  
 SUBMITTAL  
 SCOPE DOCUMENTS  
 DRAWING NUMBER  
 MAY 24, 2023

JOHNSON & BASSETT  
 STUDENT HOUSING

JOHNSON AND BASSETT  
 MADISON, WI 53710  
 Project No.  
 2222063.00

Sheet Title  
 GRADING PLAN

Copyright © 2023 Kahler Slater Inc. All rights reserved.  
 This drawing is the property of Kahler Slater Inc. and is not to be  
 reproduced, stored in a retrieval system, or transmitted in any form or by any means  
 100 Exchange Blvd., Bldg 2000, Madison, WI 53703  
 Madison, WI 53703  
 608.261.1230  
 125 South Park Street, Suite 415A, Chicago, IL 60607  
 312.225.1230  
 KS0001  
 C400



NOT FOR  
 CONSTRUCTION



Revisions

CITY OF MADISON LAND USE  
 SUBMITTAL  
 SCOPE DOCUMENTS  
 DRAWING NUMBER  
 MAY 24, 2023

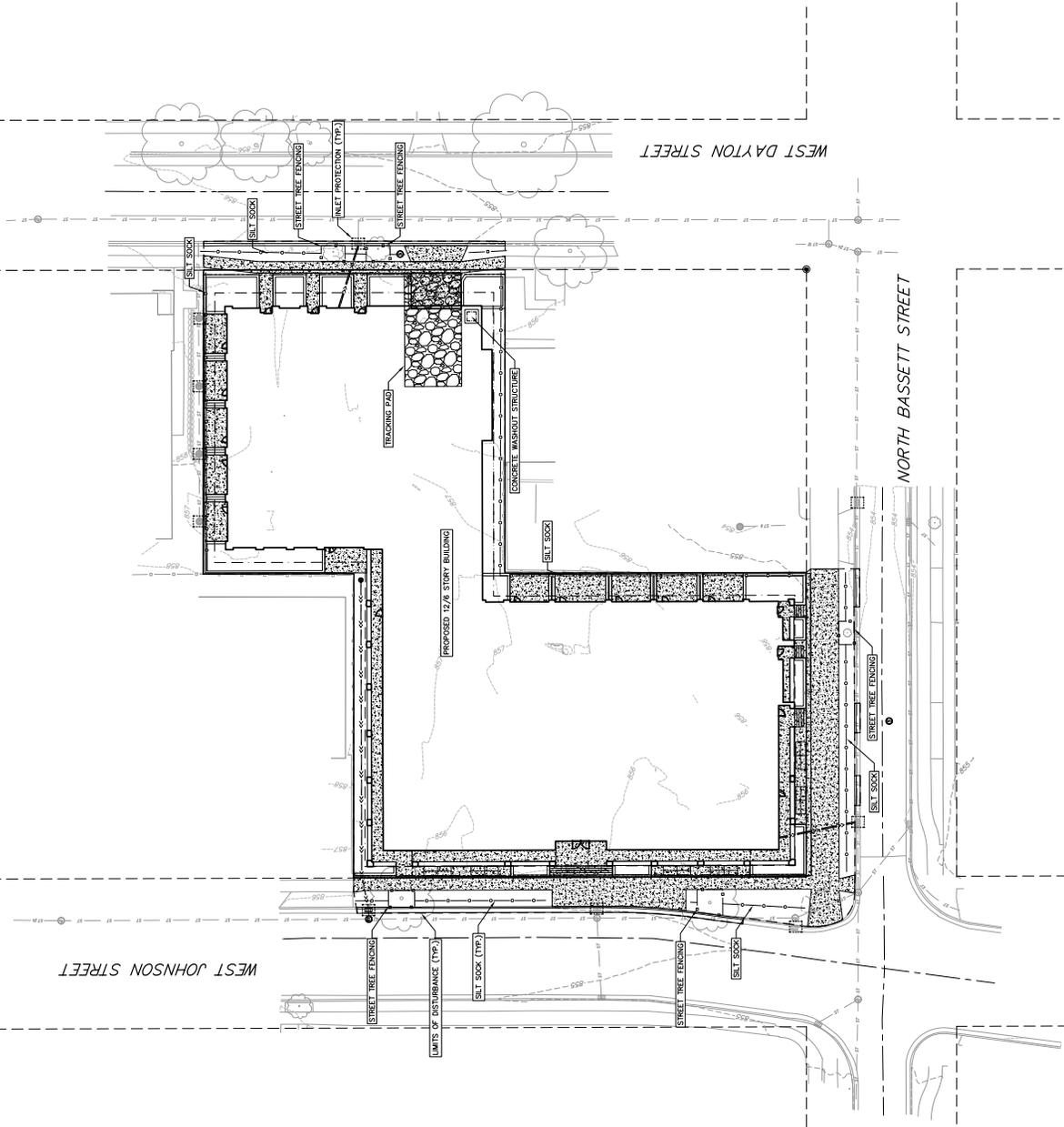
JOHNSON & BASSETT  
 STUDENT HOUSING

JOHNSON AND BASSETT  
 MADISON, WI 53705  
 Project No.  
 222063.00  
 Core Madison Business, LLC

Sheet Title  
**EROSION CONTROL  
 PLAN**

Copyright © 2023 by Kahler Slater, Inc. All rights reserved.  
 This drawing is the property of Kahler Slater, Inc. and is not to be  
 reproduced, stored in a retrieval system, or transmitted in any form or  
 by any means, electronic, mechanical, photocopying, recording, or  
 otherwise, without the prior written permission of Kahler Slater, Inc.  
 100 Exchange Blvd., Suite 200, Madison, WI 53703  
 Madison, WI 53703  
 608.261.1234  
 100 South Park Street, Suite 415A, Chicago, IL 60603  
 Chicago, IL 60603  
 312.224.4444

C401



- GRADING LEGEND**
- 4.00' --- EXISTING MAJOR CONTOURS
  - 4.00' --- EXISTING MINOR CONTOURS
  - 4.00' --- PROPOSED MAJOR CONTOURS
  - 4.00' --- PROPOSED MINOR CONTOURS
  - 4.00' --- DISTURBED UNITS
  - 4.00' --- BERM
  - 4.00' --- DRAINAGE DIRECTION
  - 4.00' --- EXISTING SPOT ELEVATIONS
  - 4.00' --- PROPOSED SPOT ELEVATIONS
  - 4.00' --- STONE WEEPER
  - 4.00' --- VELOCITY CHECK
  - 4.00' --- INLET PROTECTION
  - 4.00' --- EROSION MAT CLASS I, TYPE A
  - 4.00' --- EROSION MAT CLASS II, TYPE B
  - 4.00' --- EROSION MAT CLASS III, TYPE C
  - 4.00' --- EROSION MAT CLASS II, TYPE A
  - 4.00' --- TRACKING PAD
  - 4.00' --- RIP RAP

NOTES:  
 SEE DETAIL SHEETS FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.

NOT FOR CONSTRUCTION



NOTES

CITY OF MADISON LAND USE

SUBMITTAL  
SCOPE DOCUMENTS

Drawing Number  
MAY 24, 2023

**JOHNSON & BASSETT**  
STUDENT HOUSING

JOHNSON AND BASSETT  
MADISON, WI 53705

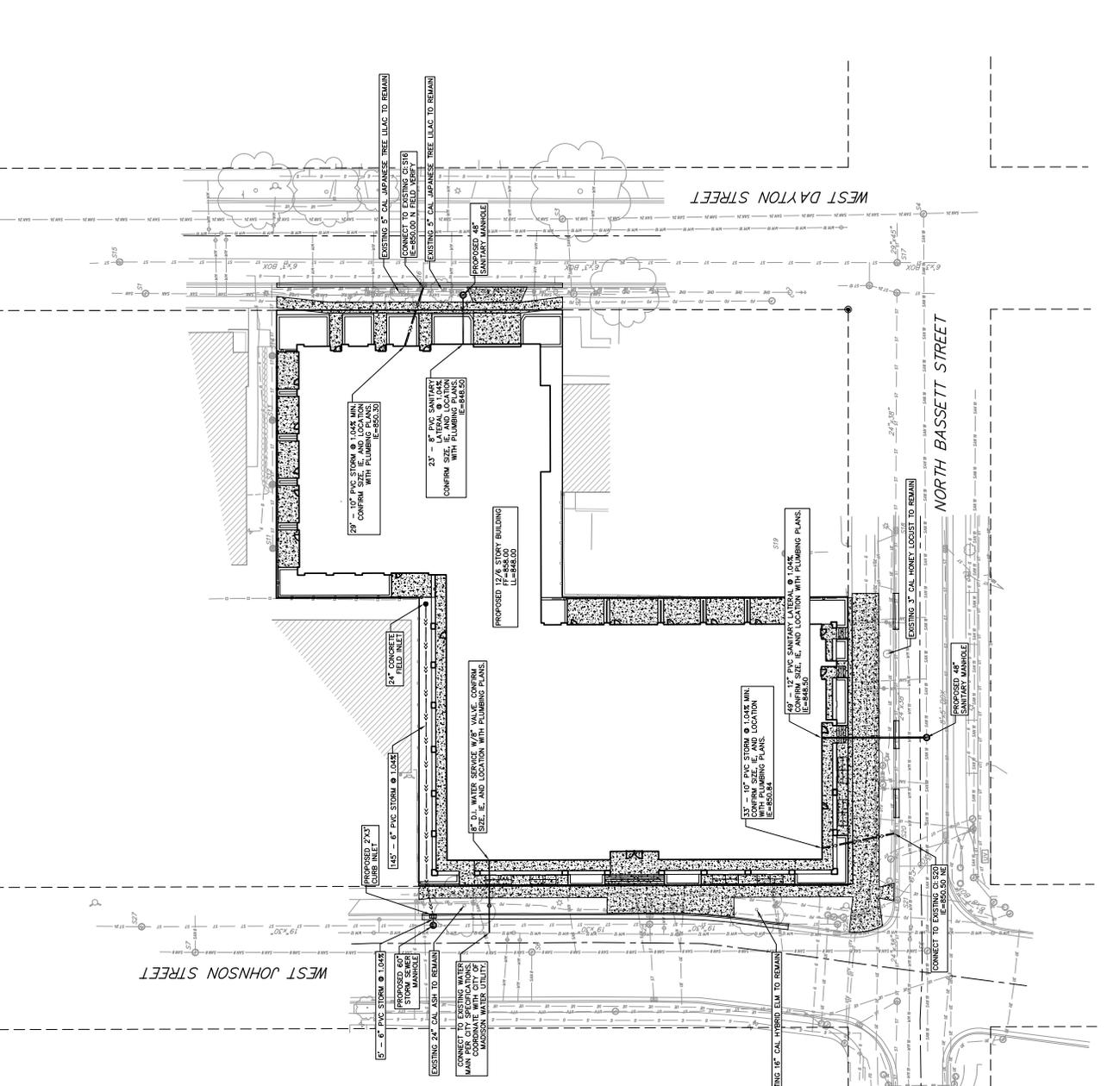
Project No.  
222063.00

Client  
Comm: Madison Business, LLC

Scale: 1/8" = 1'-0"  
**UTILITY PLAN**

Copyright © 2023 Kahler Slater, Inc. All rights reserved.  
This drawing is the property of Kahler Slater, Inc. and is not to be reproduced without the written consent of Kahler Slater, Inc.  
100 Exchange Blvd., Suite 200, Madison, WI 53703  
Phone: 608.261.1234  
Fax: 608.261.1235  
www.kahlerslater.com  
100 South Park Street, Suite 410A, Chicago, IL 60603  
Phone: 312.467.1234  
Fax: 312.467.1235  
www.kahlerslater.com

C500



- PROPOSED UTILITY LEGEND**
- STORM SEWER PIPE
  - SANITARY SEWER PIPE
  - WATER MAIN
  - FIRE HYDRANT
  - GAS MAIN
  - ELECTRIC SERVICE
- REGULATIONS**
- SPM - SANITARY MAIN
  - SPS - STORM SEWER
  - WM - WATER MAIN
  - FM - FIRE HYDRANT
  - GM - GAS MAIN
  - ES - ELECTRIC SERVICE
- UTILITIES NOTES:**
1. CONTRACTOR SHALL INVESTIGATE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
  2. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY STRUCTURES (MANHOLE RIMS, WATER VALVES, AND CURB STOPS), IF NECESSARY.
  3. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS PRIOR TO ANY EXCAVATION, UTILITY CONNECTION, FLOODING, OR OTHER WORK.
  4. FOR ALL SEWER AND WATER MAIN CROSSINGS, PROVIDE MINIMUM 18" SEPARATION WHEN WATER MAIN CROSSES BELOW SEWER AND MINIMUM 6" SEPARATION WHEN WATER MAIN CROSSES ABOVE SEWER.
  5. IF Dewatering operations exceed 70 gallons per minute of pumping capacity, a dewatering well permit shall be obtained from the Department prior to starting any dewatering activities.
  6. A COPY OF THE APPROVED UTILITY PLANS, SPECIFICATIONS AND PLUMBING PERMITS SHALL BE OBTAINED FROM THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND OTHER LOCAL INSPECTORS.
  7. STORM BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.3J-6 OF SPS 384.30(2)(c).
  8. PRIVATE WATER SERVICES AND PRIVATE WATER MAINS SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.3J-6 OF SPS 384.30(2)(c).
  9. PRIVATE WATER HYDRANTS SHALL BE YELLOW IN COLOR.
  10. APPROVED DEMOLITION MATERIAL THAT CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 384.3J-3 OF SPS 384.30(2)(c).
  11. EXTERIOR WATER SUPPLY PIPING SETBACKS AND CROSSINGS SHALL BE IN ACCORDANCE WITH SPS 382.49(9)(b).
  12. NO PERSON MAY ENGAGE IN PLUMBING WORK IN THE STATE UNLESS LICENSED TO DO SO BY THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER S.16.09.
  13. SITE CONTRACTOR SHALL LEAVE SANITARY AND WATER LATERALS FIVE (5) FEET SHORT (HORIZONTALLY) FROM THE WATER MAINS. THE PLUMBER SHALL VERIFY SIZE, LOCATION, AND INVERT ELEVATION OF PROPOSED SANITARY AND WATER LATERALS.
  14. CONTRACTOR SHALL FIELD VERIFY THE SIZE, TYPE, LOCATION, AND ELEVATION OF EXISTING UTILITIES PRIOR TO INSTALLING ANY ON-SITE UTILITIES OR STRUCTURES. CONTACT ENGINEER PRIOR TO INSTALLATION IF DISCREPANCY EXISTS WITH THESE PLANS.
  15. CONTRACTOR SHALL COORDINATE THE EXISTING UTILITY LOCATIONS WITH THE PLUMBING DRAWINGS. COORDINATE THE LOCATIONS WITH THE PLUMBING CONTRACTOR AND/OR OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION OF ANY NEW UTILITIES.
  16. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF ANY UTILITIES ENCOUNTERED AND THE EXISTING UTILITIES MARK APPROPRIATELY FROM THE PLANS.
  17. ALL WATER MAIN AND SERVICES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6.5' FROM TOP OF FINISHED GROUND ELEVATION TO TOP OF MAN.
  18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PERMITS. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE APPLICANT WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE, AT THE POINT OF CONNECTION.
  19. CLEAN OUT ALL EXISTING AND PROPOSED STORM INLETS AND CATCH BASINS AT THE COMPLETION OF CONSTRUCTION.
  20. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FROM THE CITY OF MADISON PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
  21. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DIVISIONS.
  22. CONTRACTOR SHALL TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISTURBE, SCARE, OR IMPAIR THE HEALTH OF ANY WILDLIFE OR PLANTS. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ANY EXISTING TREES, SHRUBS, OR PLANTS. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ANY EXISTING DESIGNED SPACE AWAY FROM THE TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING TREES, SHRUBS, OR PLANTS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CONTACT THE CITY OF MADISON PRIOR TO ANY REMOVAL OF TREES, SHRUBS, OR PLANTS. REPORTED IMMEDIATELY TO CITY FORESTRY AT (608) 266-4616. PERMITS AND RELOCATION SHALL BE REQUIRED.
  23. AS SHOWN BY THE SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS, CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ANY EXISTING TREES, SHRUBS, OR PLANTS. CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY AT (608) 266-4616 PRIOR TO EXCAVATION. IF EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT MADISON CITY FORESTRY AT (608) 266-4616 PRIOR TO EXCAVATION. CITY OF MADISON FORESTRY PERSONNEL SHALL CONDUCT A PRE-EXCAVATION SURVEY TO DETERMINE THE LOCATION AND SPECIFICATIONS OF ANY EXISTING TREES AND SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: <https://www.ci.madison.wi.us/forestry/forestry.htm>.



**HARTRANFT LIGHTING DESIGN, LLC**  
 Jess Krometis - jess@hartranftlighting.com  
 Paula Ziegenbein - paula@hartranftlighting.com

**LUMINAIRE SCHEDULE - DESIGN PROGRESS**

PROJECT: CORE Johnson and Bassett PROJECT #: DATE: 03/06/2023

GENERAL NOTES:

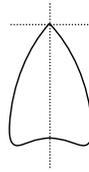
- 1 SHOULD THE CONTRACTOR WISH TO HAVE PRODUCTS OTHER THAN THOSE SPECIFIED CONSIDERED, THE ITEMS MUST BE SUBMITTED (14) DAYS IN ADVANCE OF THE BID. FAILURE TO SUBMIT WITHIN THAT DEADLINE CONSTITUTES A GUARANTEE THAT THE SPECIFIED PRODUCTS WILL BE SUPPLIED.
- 2 CONTRACTOR SHALL PROVIDE A COMPLETE LIST OF ALL LAMPS WHICH WILL BE FURNISHED ON THE PROJECT. THIS LIST SHALL BE ORGANIZED ALPHABETICALLY BY LUMINAIRE TYPE INDICATED ON THE LUMINAIRE SCHEDULE, AND INCLUDE THE MANUFACTURER AND EXACT MODEL ORDERING CODE OF EACH LAMP.
- 3 THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL 10% OF ALL LAMPS LISTED AT PROJECT TURN OVER. LAMPS ARE FOR SPARE REPLACEMENT LAMPS. LIST OF SPARE LAMPS TO BE INCLUDED IN SUBMITTAL DOCUMENTATION.
- 4 ALL EMERGENCY AND EXIT LIGHTING SHALL BE DESIGNED AND SPECIFIED BY THE ELECTRICAL ENGINEER
- 5 0-10V DIMMING REQUIRES LOW VOLTAGE CONTROL WIRE.
- 6 CONFIRM WITH ARCHITECT THE EXACT MOUNTING HEIGHT AFF
- 7 CONTRACTOR MUST PROVIDE UNIT PRICING TO THE ARCHITECT FOR EACH FIXTURE TYPE COMPLETE WITH ALL ACCESSORIES AND LAMP.

FIXTURE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE (V)	APERTURE	MOUNTING	LOCATION	NOTES
--------------	-------	-------------	---------	-------------------------	----------------	--------------------------------	------------------	-------------	----------	----------	----------	-------

**EXTERIOR LIGHTING**

<b>HEX-A</b>		4" DIAMETER LED RECESSED DOWNLIGHT	3000K INTEGRAL LED 1000 LUMENS MEDIUM WIDE OPTICS 90 CRI	GOTHAM LIGHTING EVO 4	EVO4-30/10-AR-LSS-MWD-V OLT-GZ10-90CRI	INTEGRAL LED POWER SUPPLY, 0-10V DIMMING	7.9	PER EE	4"	RECESSED	OUTSIDE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
<b>HEX-B</b>		WALL MOUNTED BACKLIT SCONCES FOR EXIT DOOR LOCATIONS WITH ADA COMPLIANCE	3000K INTEGRAL LED 1566 LUMENS 90 CRI	KUZCO LIGHTING VESTA	AT7928-BK	ELV DIMMING	31W	PER EE	5 1/8"	WALL MOUNTED	EXIT DOORS	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
<b>HEX-C</b>		37.25" LONG MULLION MOUNTED LINEAR LIGHT WITH FORWARD THROW	3000K INTEGRAL LED 2700 LUMENS FORWARD THROW LENS 90 CRI	VISA LIGHTING PASSAGE	OW2480-L30K(H)-VOLT-FT-FI NISH	0-10V DIMMING	40W	PER EE	2 1/2"	MULLION MOUNTED	UNIT DOORS	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
<b>HEX-D</b>		WALL MOUNTED STEP LIGHTS MOUNTED IN PLANTERS	3000K INTEGRAL LED 420 LUMENS ASSYMETRIC FLOOD 90 CRI	SISTEMALUX LIGHTING	S6240W-FW-VOLT-FINISH-D 10	4549-0024-075-UNV-D10 0-10V DIMMING	13.5W	PER EE	11"	WALL MOUNTED	PLANTER BOXES	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
<b>HEX-E</b>		STAKE MOUNTED UPLIGHT FOR TREES AND PLANTERS WITH SOFT FOCUS LENS AND 45 DEG CAP STYLE	3000K INTEGRAL LED 500 LUMENS MEDIUM FLOOD 90 CRI	BK LIGHTING	DS-LED-E80-MFL-A9-12-11-A	REMOTE 12V TRANSFORMER (MLV DIMMING)	7W	PER EE	2-1/4"	STAKE MOUNTED	TREES	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
<b>HEX-F</b>		WET LISTED LED TAPE MOUNTED IN TOE KICK OF PLANTERS	3000K INTEGRAL LED 112 LUMENS PER FT 90 CRI	LUMINII LIGHTING	LL18WET-T-30K-SL68-SL68-L ENGTN KMC-C CHANNEL/LENS	REMOTE LED POWER SUPPLY, ELV DIMMING	1.5W/FT	BY EE	0.59"	SURFACE MOUNTED	TOE KICK PLANTER	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. MOUNTING TO BE CONFIRMED WITH ARCHITECT. 3. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 4. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.

FIXTURE TYPE	IMAGE	DESCRIPTION	LAMPING	MANUFACTURER and SERIES	CATALOG NUMBER	POWER SUPPLY/ CONTROL PROTOCOL	SYSTEM WATTS (W)	VOLTAGE (V)	APERTURE	MOUNTING	LOCATION	NOTES
HEX-G		HANDRAIL LIGHTING SPOT LIGHTS WITH 70 DEG OPTICS	3000K INTEGRAL LED 116 LUMENS/WATT 90 CRI	WAGNER LIGHTING	LULF-30K-70-5	0-10V DIMMING	2.2W	PER EE	.63"	HANDRAIL	ENTRANCE STAIRS	1. FINISH TO BE CONFIRMED BY LANDSCAPE ARCHITECT. 2. CONTRACTOR TO FURNISH REMOTE TRANSFORMERS AS REQUIRED AND TO OPTIMIZE LOADING PER TRANSFORMER. 3. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-H		SURFACE MOUNTED LINEAR STRIPS IN CANOPY SLATS	3000K INTEGRAL LED 744 LUMENS 90 CRI	A LIGHT	ACL3ST-LENGTH-LS-30-CRI-VOLT-HE-MOUNTING-FINISH-D-Q	0-10V DIMMING	2.25"	PER EE	3.75"	SURFACE MOUNTED	ENTRANCE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT.
HEX-J		YOKE MOUNTED GOBO PROJECTOR WITH 30 DEG LENS FOR CANOPY LOGO	5500K INTEGRAL LED 1300 LUMENS 80 CRI	ROSCO LIGHTING	IMAGE SPOT HT-5-B-0-MOUNTING-3 PROVIDE WITH CUSTOM ROSCO GOBO	0-10V DIMMING	45W	PER EE	7.8"	YOKE MOUNTED	ENTRANCE CANOPY	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-K		SURFACE MOUNTED ACCENT UPLIGHTS WITH 10 DEGREE OPTICS	3000K INTEGRAL LED 744 LUMENS 90 CRI	ECOSENSE LIGHTING	F080-1S-HO-30-90-10-FINISH-H-MOUNTING	ELV DIMMING	11.5W	PER EE	6.97"	SURFACE MOUNTED	FACADE	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.
HEX-L		SURFACE MOUNTED LINEAR UPLIGHT FOR BUILDING FACADE WITH 9X9 GRAZING OPTICS	3000K INTEGRAL LED 560 LUMENS PER FT 90 CRI	ECOSENSE LIGHTING	L50-E-12"-10-30-90-VOLT-9X9	ELV DIMMING	10W/FT	PER EE	12"	SURFACE MOUNTED	FACADE	1. FINISH AND MOUNTING TO BE CONFIRMED WITH ARCHITECT. 2. CONTROLLED VIA TIMECLOCK TO TURN ON 1 HR BEFORE SUNSET AND TURN OFF 1 HR AFTER SUNRISE.



Luminaire Type:

Catalog Number:



# General Illumination Round Downlight 4"



OVERVIEW

**Feature Set**

- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
- ENERGY STAR® certified product
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting. [UGR FAQ](#)

**Distribution**



**Superior Performance\***

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

\*Based on 3500K AR LSS MWD 80CRI

COMPLEMENTARY PRODUCTS

**Coordinated Apertures | Multiple Layers of Light**



**General Illumination Layer | EVO**



**High Center Beam Layer | Incito**



**EVO + Incito — Multiple Layers of Light**

<b>Core</b>								
	Downlight	Adjustable	Open Wallwash	Lensed Wallwash	Cylinder	Pinhole	Bevel	Hyperbolic
<b>Healthcare</b>								
	MRI	Surgical Suite	Patient Room					
<b>Special Applications</b>								
	Dynamic	Food Service	Vandal/Tamper	Clean Room	Shower	Steam Room		



**4"** General Illumination Round Downlight

ORDERING INFORMATION

A+ Capable options indicated by this color background.

Luminaire Type:

Catalog Number:

EXAMPLE: EV04 35/25 AR MWD LSS 120 EZ1

Series	Color Temperature	Nominal Lumen Values	Reflector & Flange Color	Trim Style	Finish	Distribution	Voltage
EV04	27/ 2700 K	02 250 lumens	AR Clear	(blank) Self-flanged	LSS Semi-specular	MD Medium (0.9 s/mh)	MVOLT 120
	30/ 3000 K	05 500 lumens	PR Pewter	FL Flangeless	LD Matte-diffuse	MWD Medium wide (1.0 s/mh)	277
	35/ 3500 K	07 750 lumens	WTR Wheat		LS Specular	WD Wide (1.2 s/mh)	347 <sup>3,4</sup>
	40/ 4000 K	10 1000 lumens	GR Gold				
	50/ 5000 K	15 1500 lumens	WR <sup>1</sup> White				
		20 2000 lumens	BR <sup>1</sup> Black				
		25 2500 lumens	WRAMF <sup>1</sup> White Anti-microbial				
		30 3000 lumens	TRALTBD <sup>1,2</sup> RAL paint for pricing only				
		35 3500 lumens	TCPC <sup>1</sup> Custom paint color				
		40 4000 lumens					
	45 4500 lumens						

Driver <sup>5</sup>	Control Interface	Emergency Options	Options
<b>GZ10</b> 0-10V driver dims to 10%	<b>NLT<sup>9</sup></b> nLight <sup>®</sup> dimming pack controls	<b>EL<sup>10</sup></b> Emergency battery pack, 10W, with integral test switch	<b>SF</b> Single Fuse. Specify 120V or 277V
<b>GZ1</b> 0-10V driver dims to 1%	<b>NLTER<sup>9,7,11</sup></b> nLight <sup>®</sup> dimming pack controls emergency circuit	<b>ELR<sup>10</sup></b> Emergency battery pack, 10W, with remote test switch	<b>TRW<sup>8</sup></b> White painted flange
<b>EZ1</b> eldoLED 0-10V ECODrive. Linear dimming to 1% min.	<b>NLTAIR2<sup>14,15</sup></b> nLight <sup>®</sup> Air enabled	<b>ELSD<sup>10</sup></b> Emergency battery pack, 10W, with self-diagnostics, integral test switch	<b>TRBL<sup>9</sup></b> Black painted flange
<b>EZB</b> eldoLED 0-10V SOLOdrive. Logarithmic dimming to <1%.	<b>NLTAIRER2<sup>3,11,14</sup></b> nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit	<b>ELRSD<sup>10</sup></b> Emergency battery pack, 10W, with self-diagnostics, remote test switch	<b>FRALTBD<sup>2</sup></b> Flange ring only RAL color for pricing only
<b>EDAB</b> eldoLED SOLOdrive DALI. Logarithmic dimming to <1%.	<b>NLTAIREM2<sup>3,14</sup></b> nLight <sup>®</sup> AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit with battery pack options.	<b>E10WCP<sup>10</sup></b> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with integral test switch	<b>FCPC</b> Flange custom paint color
<b>EDXB</b> eldoLED POWERdrive DMX with RDM (remote device management). Square Law dimming to <1%. Minimum 1000 lumens. Includes termination resistor. Refer to <a href="#">DMXR Manual</a> .		<b>E10WCPR<sup>10</sup></b> Emergency battery pack, 10W Constant Power, CA Title 20 compliant with remote test switch	<b>N80<sup>12</sup></b> nLight <sup>®</sup> Lumen Compensation
<b>ECOD<sup>6</sup></b> Lutron Ecosystem digital Hi-Lume 1% soft-on, fade to black. Min: 250LLM; Max: 4000LM.		<b>BGTD</b> Bodine generator transfer device. Specify 120V or 277V.	<b>GTD</b> generator transfer device. Specify 120V or 277V
			<b>90CRI</b> High CRI (90+)
			<b>CP<sup>13</sup></b> Chicago Plenum. Specify 120V or 277V for 5000lm and above.
			<b>RRL</b> RELOC <sup>®</sup> -ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only with RRLA, RRLB, RRLAE, and RRLC12S. Refer to <a href="#">RRL</a> spec sheet on <a href="#">www.acuitybrands.com</a> for RELOC <sup>®</sup> product specifications. Above ceiling access required.

**ACCESSORIES — order as separate catalog numbers (shipped separately)**

<b>SCA4</b>	Sloped ceiling adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to <a href="#">TECH-190</a> .
<b>CTAEV04</b>	4" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5").
<b>CTA4-8 YK</b>	4"-8" Aperture ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 5"). For use with CWW/DWW trims, EDXB, CP or nTune options.
<b>ISD BC</b>	0-10V wallbox dimmer. Refer to <a href="#">ISD-BC</a> .

**ORDERING NOTES**

- Not available with finishes.
- Replace with applicable RAL number and finish when ready to order. See [RAL BROCHURE](#) for available color options. Not available with emergency battery pack options.
- Not available with emergency battery pack options.
- Supplied with factory installed step down transformer.
- Refer to [TECH-240](#) for compatible dimmers.
- Not available with nLight<sup>®</sup>.
- Must specify voltage.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with WR (white reflector) or FL (flangeless) option.
- For use with different reflector finish only (i.e. AR, PR, WTR, GR options). Not applicable with BR (black reflector) or FL (flangeless) option.
- 11" of plenum depth or top access required for battery pack maintenance.
- ER for use as UL924 Emergency Operation via power sense lead. Will require an emergency hot feed and normal hot feed. EM for use as UL924 Emergency Operation via power interrupt detection.
- Fixture begins at 80% light level. Must be specified with NLT or NLTER. Only available with EZ10 and EZ1 drivers.
- Not available with ELR, HAO, or EXAB, or any nLight<sup>®</sup> AIR dimming options.
- Not available DALI or DMX drivers. Not available with CP or N80 options. Not recommended for metal ceiling installations.
- When combined with the EZ1, EZ10, or EZB option, normal luminaires (non-emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.



**Optical Assembly**

Optical design is a Bounding Ray™ design with 45° cutoff to source and source image. Top-down flash characteristic for superior glare control. Unitized optics shall have mechanical attachment of the light engine to the lower reflector for complete optical alignment.

**Electrical**

The luminaire shall operate from a 50 or 60 Hz  $\pm 3$  Hz AC line over a voltage ranging from 120 VAC to 277 VAC. The fluctuations of line voltage shall have no visible effect on the luminous output.

The luminaire shall have a power factor of 90% or greater at all standard operating voltages and full luminaire output.

Sound Rated A+. Driver shall be >80% efficient at full load across all input voltages.

Input wires shall be 18AWG, 300V minimum, solid copper.

**Controls**

Luminaire shall be equipped with interface for nLight wired or wireless network with integral power supply as per specification.

**Dimming**

The luminaire shall be capable of continuous dimming without perceivable stroboscopic flicker as measured by flicker index (ANSI/IES RP-16-10) over a range of 100 – 10%, 100 – 1.0% or 100 – 0.1% of rated lumen output with a smooth shut off function to step to 0%.

LED drivers shall conform to IEEE P1789 standards. Alternatively, manufacturers must demonstrate conformance with product literature and testing which demonstrates this performance. Systems that do not meet IEEE P1789 will not be considered.

Driver is inaudible in 24dB environment, and stable when input voltage conditions fluctuate over what is typically experienced in a commercial environment.

**Construction**

Fully serviceable and upgradeable lensed LED light engine, both the driver and light engine are suitable for field maintenance and are serviceable from above or below the ceiling.

Luminaire housing shall be constructed of 20-gauge galvanized steel and have telescopic mounting bars with maximum 26" and minimum 15" extension and 4" vertical adjustment.

Luminaires shall be suitable for installation in ceilings up to 1½" thick. (specify ceiling thickness adapter to extend frame to accommodate ceiling thickness up to 2").

Tool-less adjustments shall be possible after installation.

The assembly and manufacturing process for the luminaire shall be designed to assure all internal components are adequately supported to withstand mechanical shock and vibration.

25°C ambient temperature standard (1/2" clearance on all sides from non-combustible materials in non-IC applications, unless marked spacing noted otherwise). For use in insulated ceilings, a 3" clearance on all sides from insulation is required (unless marked spacing noted otherwise).

**Listings**

Fixtures are CSA certified to meet US and Canadian Standards: All fixtures manufactured in strict accordance with the appropriate and current requirements of the "Standards for Safety" to UL, wet location covered ceiling. Luminaire configurations are Energy Star certified through testing in EPA-recognized laboratories, with the results reviewed by an independent, accredited certification organization. Visit [www.energystar.gov](http://www.energystar.gov) for specific configurations listed.

**BUY AMERICAN ACT**

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**Photometrics**

LEDs tested to LM-80 standards. Measured by IESNA Standard LM-79-08 in an accredited lab. Lumen output shall not decrease by more than 30% over the minimum operational life of 60,000 hours.

Color appearance from luminaire to luminaire of the same type and in all configurations, shall be consistent both initially and at 60,000 hours and operate within a tolerance of <2.5 MacAdam ellipse as defined by a point at the intersection of the CCT line and the black body locus line in CIE chromaticity space.

**Warranty**

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:**

Actual performance may differ as a result of end user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C.

**A+ Capable Luminaire**

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background\*
- This luminaire is part of an A+ Certified solution for nLight® control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

Tables of Use

EVO - eldoLED Driver Default Dimming Curve			
Nomenclature	Min Dimming	Driver Dim Curve	Control Dim Curve
EZ10	10%	Linear	Linear/Logarithmic
EZ1	1%	Linear	Linear/Logarithmic
EXA1	1%	Linear	Linear/Logarithmic
EZB	<1%	Logarithmic	Linear
EDAB	<1%	Logarithmic	Linear
EXAB	<1%	Logarithmic	Linear
EDXB	<1%	Logarithmic	Linear

Driver		Control Provided (note: 347V/UVOLT versions provided with 347 option selected)				
Nomenclature	Description	NLT	NLTER	NLTAIR2	NLTAIR2ER	NLTAIREM2
GZ10	0-10V driver dims to 10%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
GZ1	0-10V driver dims to 1%	nPP16 D EFP	nPP16 D ER EFP	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ10	eldoLED 0-10V ECODrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZ1	eldoLED 0-10V ECODrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2
EZB	eldoLED 0-10V SOLOdrive	nPS 80 EZ	nPS 80 EZ ER	RPP20 D 24V G2	RPP20 D 24V ER G2	RPP20 D 24V ER G2

**How to Estimate Delivered Lumens in Emergency Mode**

**Delivered Lumens = 1.25 x P x LPW**

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

Flangeless

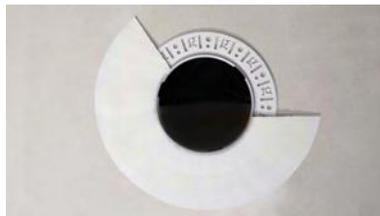
**Flangeless Installation**

Gotham's flangeless option utilizes a micro-thin polymer mud ring that minimizes the amount of drywall compound required to finish the ceiling. The end result is a virtually undetectable flangeless downlight installation.

The polymer mud ring is installed independent of the of the recessed frame, therefore floating with the ceiling. This innovation minimizes any surface cracks during reflector installation, ceiling movement and any future service to the recessed frame, wiring, electronics, etc.



Partially finished mud ring, showing cross-section detail.



An EVO downlight requires only approximately 3" of plaster to finish.

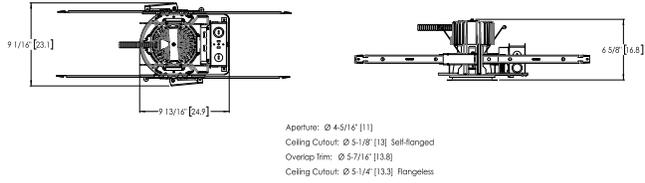


EVO with flangeless trim

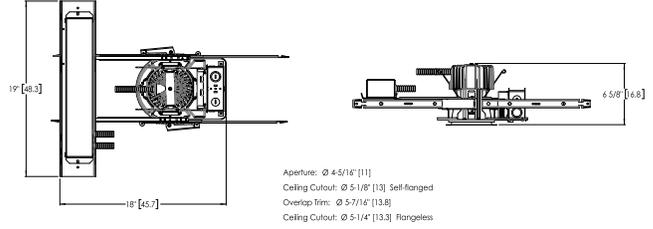
DIMENSIONAL DATA

Aperture: 4-5/16" (11)      Ceiling Opening: 5-1/8" (13) self-flanged  
 Overlap trim: 5-7/16" (13.8)      5-1/4" (13.3) flangeless

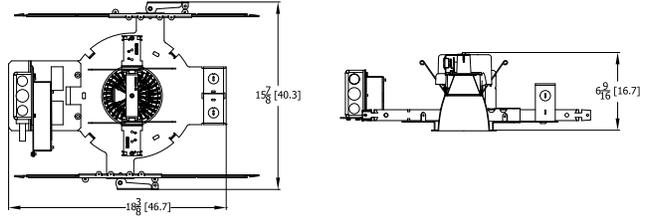
**Standard**



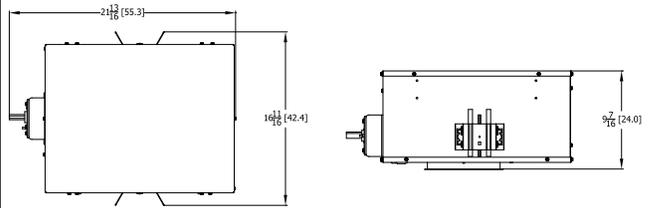
**Battery Pack**



**CP Standard**

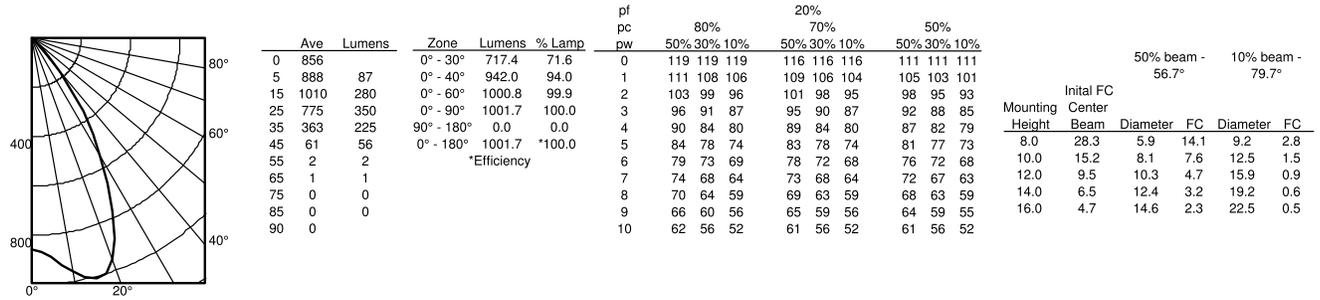


**CP Enclosed For Use With Battery Pack & nLight**

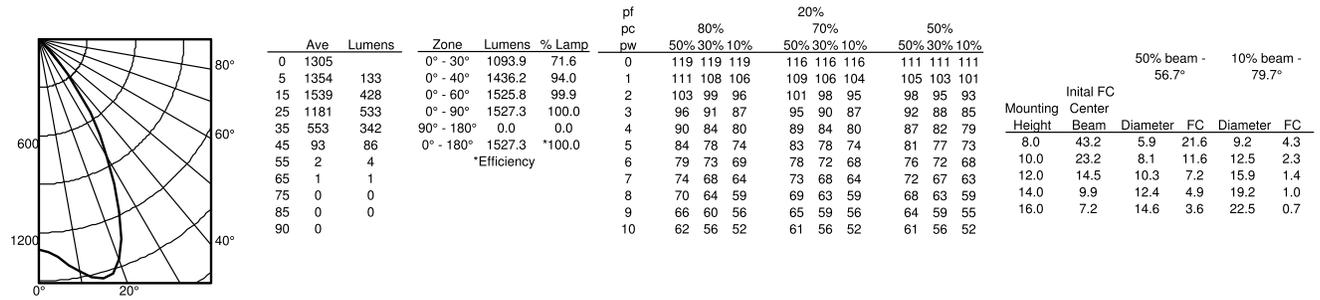


Photometry

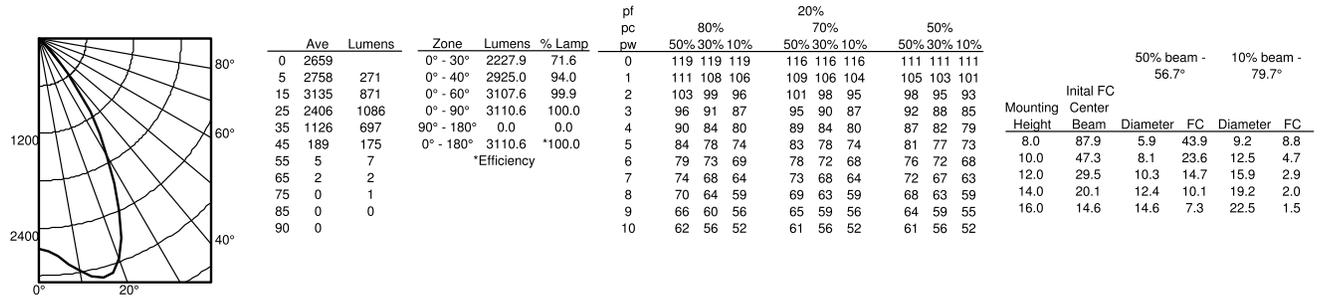
**EV04 35/10 MWD LS INPUT WATTS: 8.8W, DELIVERED LUMENS: 1001.7LM, LPW = 113.8, 1.08 S/MH, TEST NO. LTL27786P131**



**EV04 35/15 MWD LSS INPUT WATTS: 13.7W, DELIVERED LUMENS: 1527.3LM, LPW = 111.4, 1.08 S/MH, TEST NO. LTL27786P137**



**EV04 35/30 MWD LSS INPUT WATTS: 31.2W, DELIVERED LUMENS: 3110.6LM, LPW = 99.6, 1.08 S/MH, TEST NO. LTL27786P155**



CRI	CCT	Multiplier
80	2700K	0.96
	3000K	1.00
	3500K	1.00
	4000K	1.01
	5000K	1.07
90	2700K	0.80
	3000K	0.83
	3500K	0.85
	4000K	0.87
	5000K	0.91

Reflector Finish	Multiplier
LS - Specular	1
LSS - Semi Specular	0.956
WR - White	0.87
LD - Matte Diffuse	0.85
BR - Black	0.73

Distribution	Beam
MD	51
MWD	57
WD	73

4" General Illumination Round Downlight

NLIGHT AIR

nLight® AIR is the ideal solution for retrofit or new construction spaces where adding communication wiring is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each EVO Luminaire ordered with the NLTAIR option. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.

**nLight® AIR Control Accessories**

Order as separate catalog number. Visit [nLight AIR](#).

**Wall Switches**

Model Number	
On/Off single pole	rPODB (color) G2
On/Off two pole	rPODB 2P (color) G2
On/Off & raise/lower single pole	rPODB DX (color) G2
On/Off & raise/lower two pole	rPODB 2P DX (color) G2

**nLight® AIR Control Accessories (cont.)**

**Occupancy Sensors (PIR/dual tech)**

Model Number	
Small motion 360°, ceiling	rCMS 9 / rCMS PDT 9
Large motion 360°, ceiling	rCMS 10 / rCMS PDT 10

**UL924 Sequence of Operation**

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

NLIGHT

nLight® The nLight® solution is a digital networked lighting control system that provides both energy savings and increased user configurability by cost effectively integrating time-based, daylight-based, sensor-based and manual lighting control schemes.

**nLight® Wired Control Accessories**

Order as separate catalog number. Visit [nLight](#).

**Wall Switches**

Model Number	
On/Off single pole	nPODM (color)
On/Off two pole	nPODM 2P (color)
On/Off & raise/lower single pole	nPOD DX (color)
On/Off & raise/lower two pole	nPODM 2P DX (color)
Graphic touchscreen	nPOD GFX (color)

**Photocell Controls**

Dimming	nCM ADCX
---------	----------

**nLight® Wired Control Accessories (cont.)**

**Occupancy Sensors (PIR/dual tech)**

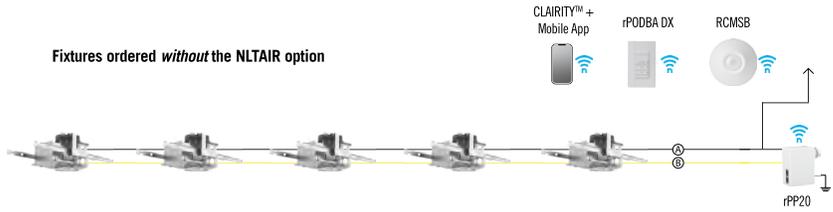
Model Number	
Small motion 360°, ceiling	nCM 9 / nCM PDT 9
Large motion 360°, ceiling	nCM 10 / nCM PDT 10
Wide View	nWV 16 / nWV PDT 16
Wall switch with raise/lower	nWSX LV DX / nWSX PDT LV DX

**Cat-5 Cables (plenum rated)**

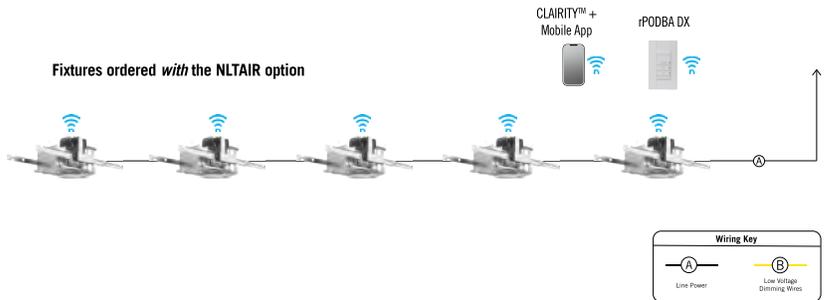
10', CAT5	CAT5 10FT J1
15', CAT5	CAT5 15FT J1

**Possibilities for nLight® AIR**

**Fixtures ordered without the NLTAIR option**



**Fixtures ordered with the NLTAIR option**

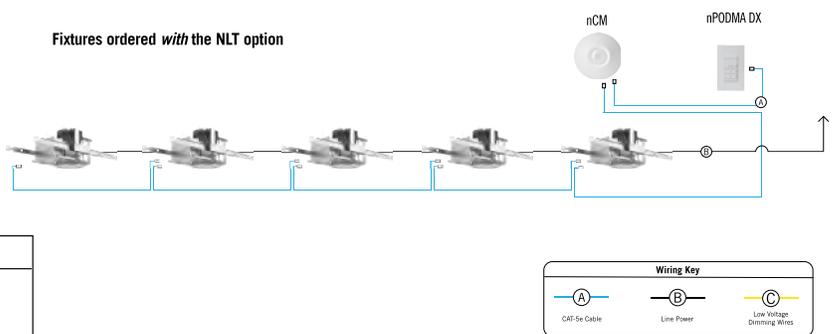


**Possibilities for nLight® wired**

**Fixtures ordered without the NLT option**



**Fixtures ordered with the NLT option**



VESTA  
AT7928

WALL

PROJECT



DESCRIPTION

Timeless simplicity with versatile purpose is offered with this wall sconce that measures 28 inches in length. Vesta mounts horizontally or vertically from a matching aluminum square affixed in the middle of the rectangular beam of formed aluminum. The concealed LEDs illuminate the mounting plane creating pool of light on the wall. Vesta is available in three different finishes: black or white powder coating and brushed nickel.



AT7928-BN  
Brushed Nickel



AT7928-BK  
Black

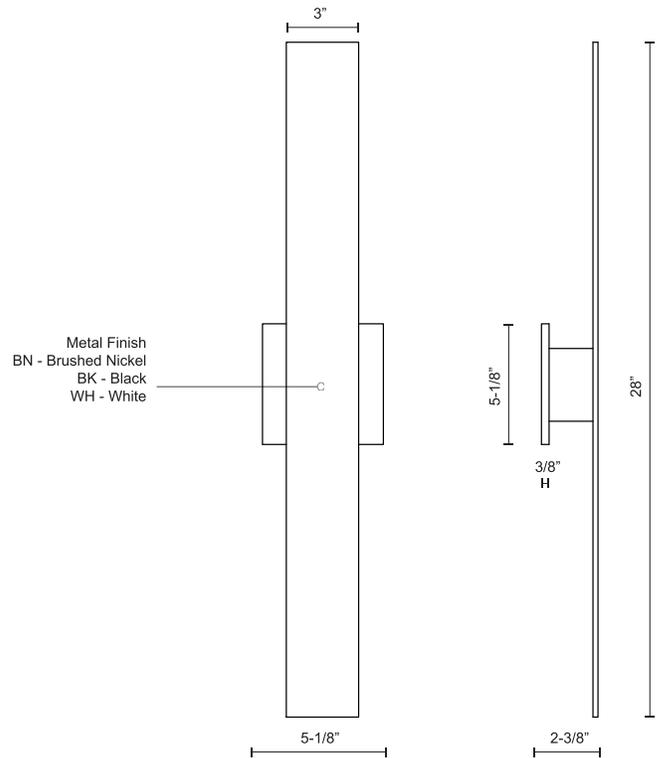


AT7928-WH  
White

SPECIFICATION DETAILS

\* For custom options, consult factory for details.

<b>Fixture Dimensions</b>	W3" x H28" x E2-3/8"
<b>Light Source</b>	AC LED Module
<b>Wattage</b>	31W
<b>Total Lumens</b>	2400lm
<b>Delivered Lumens</b>	BK-1566lm; BN-1575lm; WH-1725lm;
<b>Voltage</b>	120V
<b>Color Temperature</b>	3000K
<b>CRI (Ra)</b>	90CRI
<b>Optional Color Temps</b>	2700K - 5000K Available, Minimum Order Quantities Apply
<b>LED Rated Life</b>	50,000 hours
<b>Dimming</b>	100% - 10%, ELV Dimmer (Not Included)
<b>Glass Details</b>	Frosted Glass
<b>ADA Compliant</b>	Yes
<b>Location</b>	Wet
<b>Compliance</b>	ADA
<b>Warranty</b>	5 Years
<b>Illumination Direction</b>	Backlit
<b>Mounting Style</b>	All Orientation; Wall;
<b>Canopy Dimensions</b>	W5-1/8" x H5-1/8" x E3/8"



KUZCO

19054 28TH AVENUE  
SURREY - BC V3Z 6M3  
CANADA

WWW.KUZCOLIGHTING.COM

COMMENT



# OW2480 PASSAGE™

Mullion Mount with Remote Power Supply



[Visalighting.com/products/Passage](https://visalighting.com/products/Passage)

Type:  Project:  Location:

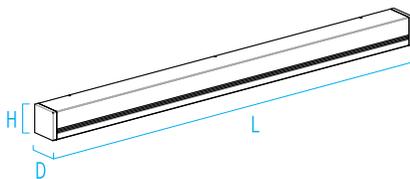


## DIMENSIONS

Depth is measured from wall to front of fixture

L = Length H = Height D = Depth

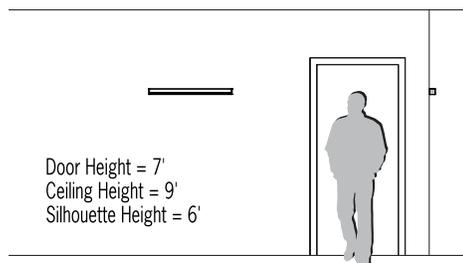
- L 37-1/4" (946 mm)
- H 2-1/2" (64 mm)
- D 2-1/2" (64 mm)



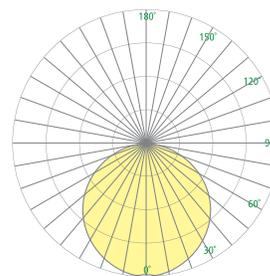
## FEATURES

- High or low lumen output
- Luminous or Forward Throw output
- Modular design for replacement of LED source or driver
- Remote power supply included (suitable for indoor, Type IC)
- Optional dual circuit switching
- IP65 rated
- Bracket mounting system simplifies installation and maintenance
- Window mullion mount; minimum mullion width 2.5"
- Tamper resistant fasteners
- Polycarbonate diffuser
- No VOC powder coat paint finish; metal based sublimated wood look finish
- ETL Listed for wet location mounting 4' above grade

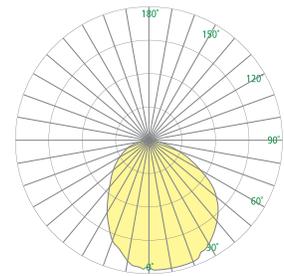
## RELATIVE SCALE DRAWING



## PHOTOMETRICS



LUM (Luminous Lens)



FT (Forward Throw Optic)



IP65



ADA Compliant



ETL Listed



5 Year Warranty

# OW2480 PASSAGE (cont.)

## Mullion Mount with Remote Power Supply



Fill in shaded boxes using information listed below

<b>OW2480</b>	-	<b>MVOLT</b>			
<b>MODEL</b>	<b>SOURCE<sup>1</sup></b> L30K(H) L30K(L) L35K(H) L35K(L) L40K(H) L40K(L)	<b>VOLTAGE</b> MVOLT	<b>OPTIC<sup>2</sup></b> LUM FT	<b>FINISH</b>  See last page for finish order codes	<b>OPTION<sup>3</sup></b> DS

**SOURCE<sup>1</sup>** (Select one)

Dimmable 0-10V to 1%, Minimum 82CRI, within 3-step MacAdam

Source	CCT	Delivered Forward Throw Lumens	Delivered Luminous Lumens	Power (Watts)
L30K(H)	3000K	2700	1900	40
L30K(L)	3000K	900	650	14
L35K(H)	3500K	2700	1900	40
L35K(L)	3500K	900	650	14
L40K(H)	4000K	2700	1900	40
L40K(L)	4000K	900	650	14

**VOLTAGE**

<b>MVOLT</b>	120-277V, 50/60 Hz
--------------	--------------------

**OPTIC<sup>2</sup>** (Select one)

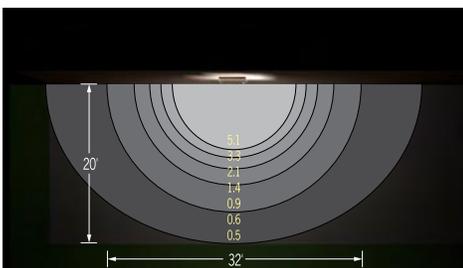
<b>LUM</b>	Luminous Lens
<b>FT</b>	Forward Throw Optic

**OPTION<sup>3</sup>**

⚠ Option availability may be interdependent with Other Options

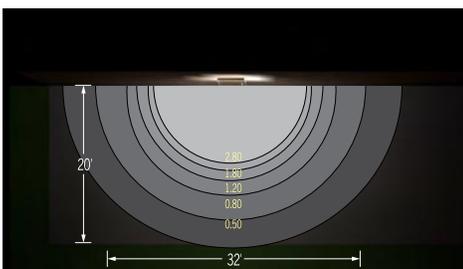
<b>DS</b>	Dual circuit switching (includes 2 drivers). Lumen output and wattage is split in half for each circuit
-----------	--

**PATH OF EGRESS - LUMINOUS LENS**



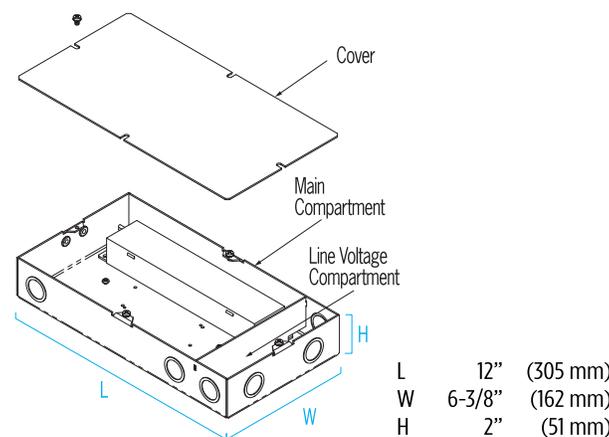
OW2480 -H Downlight, Mounted at 10' AFF, .70 light loss factor used

**PATH OF EGRESS - FORWARD THROW**

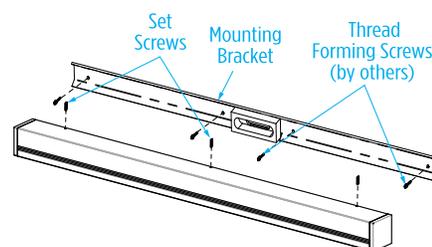


OW2486 -H Downlight, Mounted at 10' AFF, .70 light loss factor used

**REMOTE POWER SUPPLY ENCLOSURE**



**MULLION MOUNTING DETAIL**



# OW2480 PASSAGE (cont.)

## Mullion Mount with Remote Power Supply



### PASSAGE PRODUCT FAMILY

- OW2480 – 37” – Mullion Mount with Remote Power Supply
- OW2482 – 37” – 2 X 4 Junction Box Mount with Integral Power Supply
- OW2484 – 72” – Mullion Mount with Remote Power Supply
- OW2486 – 72” – 2 X 4 Junction Box Mount with Integral Power Supply

### SUGGESTED VARIATIONS

- Custom colors

See [Visalighting.com/products/Passage](https://visalighting.com/products/Passage) for more information

### FINISHES

Specify color code when ordering. For accurate color matching, individual paint and finish samples are [available upon request](#). For more information about our finishes visit [visalighting.com/finishes](https://visalighting.com/finishes)

#### Powder Coat Paint Finishes (Standard)

<b>AGGY</b> Agate Grey	<b>ALGN</b> Alpine Green	<b>BJBG</b> Baja Beige	<b>BMAT</b> Bronze Matte	<b>BRNZ</b> Bronze	<b>BSIL</b> Blade Silver	<b>CVBL</b> Cove Blue
<b>DEOR</b> Deoro Gold	<b>GLWT</b> Glacier White	<b>GSIL</b> Graphite Siver	<b>HRGR</b> Harbor Grey	<b>JTBK</b> Jet Black	<b>OCBL</b> Ocean Blue	<b>SHGR</b> Shoreline Grey
<b>SBGN</b> Sagebrush Green	<b>SLGR</b> Slate Grey	<b>SSTP</b> Sierra Taupe	<b>TRCN</b> Terracotta Canyon	<b>TRWT</b> Traffic White	<b>VBLK</b> Velvet Black	<b>VNRD</b> Vineyard Red

#### Wood Sublimated Metal Finishes (Premium)

<b>MCA</b> Mediterranean Cherry Metal Based Wood Alternative	<b>NOA</b> Natural Oak Metal Based Wood Alternative

#### WOOD SUBLIMATED METAL FINISH



**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 1 of 8



Skill is a unique LED luminaire, assuring high lighting performance and total absence of glare. The most modern electronic technology is contained in the thickness of only 3 cm and provides an excellent quality of light while saving energy.

<b>Luminaire characteristics:</b>	<b>Power input:</b> 4.7W to 23.8W (system wattage) <b>Lumens:</b> 157lm to 785lm (for 3000K, 90CRI) <b>Luminaire efficacy:</b> Up to 35lm/W
<b>Source:</b>	LED Module (LM-80 tested) 2700K: 90CRI, 3000K: 90CRI, 4000K: 90CRI.
<b>Lumen maintenance:</b>	80% of initial lumens at 70 000 hours(L80)(LM-79)
<b>Optics:</b>	Accent light.
<b>Material:</b>	Body: Die-cast aluminum Diffuser: Toughened glass.
<b>Mounting:</b>	See mounting options on page 4.
<b>Electrical:</b>	High efficiency electronic power supply, rated at 50 000 hours, 120-277V. See remote LED Driver options on page 3.
<b>Dimming</b>	0-10V down to 15% (120-277V), see page 3 for available remote options.
<b>Finish:</b>	White or aluminum gray painted finish, following a double powder paint in 3 step process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions.
<b>Weight:</b>	Miniskill vertical: 1.16lb (0.53kg) Miniskill square: 1.34lb (0.61kg) Miniskill round: 1.23lb (0.56kg) Skill square: 3.26lb (1.48kg) Skill square large: 6.55lb (2.97kg) Skill round: 3.06lb (1.39kg) Skill rectangular: 3.15lb (1.43kg)
<b>Warranty:</b>	5 year limited warranty.
<b>Ratings:</b>	IP65, IK08
<b>Certification:</b>	 cULus listed for wet location

**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 2 of 8

**ORDERING INFO**

  
 FIXTURE
 **MODEL**

- S6230** - Miniskill vertical     
  **S6260** - Skill square     
  **S6240** - Skill rectangular  
 **S6250** - Miniskill square     
  **S6255** - Skill square large <sup>(1)</sup>  
 **S6270** - Miniskill round     
  **S6280** - Skill round

**LED**

- H** - 2700K, 90CRI     
  **W** - 3000K, 90CRI     
  **N** - 4000K, 90CRI

**MOUNTING** <sup>(2)</sup>

- DF** - Surface mounted with direct feed     
  **JB** - Surface mounted junction box     
  **FM** - Recessed mounted flush with surface     
  **J2** - Surface mounted single gang box  
 **FW** - Surface mounted with fixture whip

**VOLTAGE**

- UNV** - 120-277V     
  **REM** - Remote

**FINISH**

- 01** - White     
  **14** - Aluminum

**DIMMING**

- D10** - 0-10V <sup>(3)</sup> <sup>(4)</sup>

<sup>(1)</sup> Available with surface mounted junction box (**JB**) mounting and 120-277V (**UNV**) voltage.

<sup>(2)</sup> See previous page 4-5 for model availability.

<sup>(3)</sup> Available with **6250**, **6260**, **6270**, **6280**, **6255** models.

<sup>(4)</sup> Available with 120-277V (**UNV**) voltage.

**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

SPECIFICATION SHEET

Project :

Page: 3 of 8

**REMOTE POWER SUPPLY OPTIONS**  
(TO BE ORDERED SEPARATELY)

							Miniskill S6230 / 50 / 70	Skill S6260 / 80	Skill Rectangular S6240
							5.2W*	11W*	12W*
Watts	Voltage	Rated	Dimming protocol	Dimming range	Dimension	Max distance**	Min-Max Units		
<input type="checkbox"/> <b>4444-0024-020-120-ND</b>									
20	120V	Indoor	None	None	6" x 4" x 3" (152 x 102 x 76mm)	30ft(9m)	1-3	1	1
<input type="checkbox"/> <b>4448-0024-060-UNV-ND</b>									
60	120-277V	Indoor	None	None	10" x 8" x 4" (254 x 203 x 102mm)	30ft(9m)	1-11	1-5	1-5
<input type="checkbox"/> <b>4549-0024-075-UNV-D10</b>									
75	120-277V	Outdoor	0-10V	Down to ±10%	8" x 1" x 2" (203 x 25 x 51mm)	30ft(9m)	1-14	1-6	1-6
<input type="checkbox"/> <b>4545-0024-075-UNV-ND</b>									
75	120-277V	Outdoor	None	None	11" x 3" x 2" (279 x 76 x 51mm)	30ft(9m)	1-14	1-6	1-6
<input type="checkbox"/> <b>4551-0024-080-120-LTE</b>									
80	120V	Outdoor	Leading and trailing edge (ELV and TRIAC)	Down to ±15%	14" X 5" X 2" (356 X 127 X 51mm)	30ft(9m)	1-15 Dim 6-15	1-7 Dim 3-7	1-6 Dim 3-6
<input type="checkbox"/> <b>4448-0024-150-UNV-D10</b>									
150	120-277V	Indoor	0-10V	Down to ±10%	10" x 8" x 4" (254 x 203 x 102mm)	25ft (7.5m)	1-28	1-13	1-12
<input type="checkbox"/> <b>4546-0024-200-2C-UNV-ND</b>									
200	120-277V	Outdoor	None	None	12" X 5" X 2" (305 X 127 X 51mm)	30ft (9m) Per channel	1-38	1-18	1-16

\* Wattage requirement for one (1) fixture (Remote fixture only).

\*\* Contact factory for longer remote distance.

**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

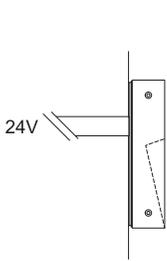
SPECIFICATION SHEET

Project :

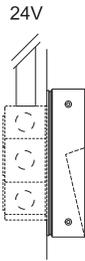
Page: 4 of 8

**MOUNTING OPTIONS**

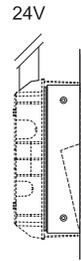
**Miniskill**  
(S6250 - S6270)



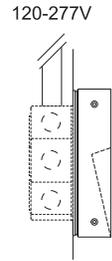
**DF-REM** - Direct feed with remote power supply. Connections made inside fixture. Max 2x18AWG. Installed directly to surface.



**JB-REM** - 4" junction box with remote power supply. Mounting adapter plate for junction box installation. Min 1 1/2" (38mm) deep

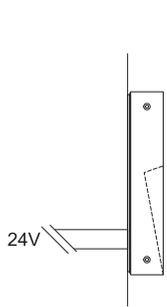


**FM-REM** - Recessed mounted flush with surface. Remote power supply. Cast in concrete application, supplied with back box **S6256 - S6278**. Min 2 1/4" (73mm) deep

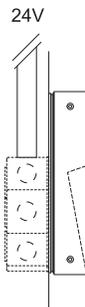


**JB-UNV** - 4" junction box with integral power supply. Mounting adapter plate for junction box installation. Min 1 1/2" (38mm) deep

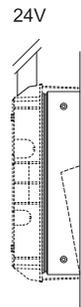
**Skill**  
(S6240 - S6260 - S6280)



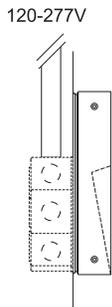
**DF-REM** - Direct feed with remote power supply. Connections made inside fixture (14-18AWG only). Max Ø3/8" power cable. Installed directly to surface.



**JB-REM** - 4" junction box with remote power supply. Mounting adapter plate for junction box installation. Min 1 1/2" (38mm) deep

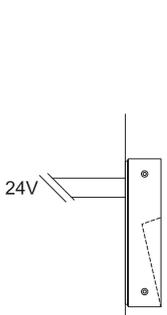


**FM-REM** - Recessed mounted flush with surface. Remote power supply. Cast in concrete application, supplied with back box **S6247 - S6268 - S6288**. Min 2 1/4" (73mm) deep

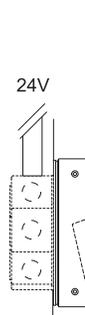


**JB-UNV** - 4" junction box with integral power supply. Mounting adapter plate for junction box installation. Min 1 1/2" (38mm) deep

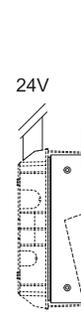
**Miniskill Vertical**  
(S6230)



**FW-REM** - Fixture whip to remote power supply. Installed directly to surface with recessed pipe, exposed cable or electrical conduit.

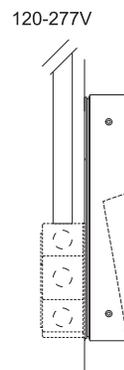


**J2-REM** - 2" junction box with remote power supply. Mounting adapter plate for junction box installation. Min 1 1/4" (48mm) deep



**FM-REM** - Recessed mounted flush with surface. Remote power supply. Cast in concrete application, supplied with back box **S6239**. Min 2 1/4" (73mm) deep

**Skill Square Large**  
(S6255)



**JB-UNV** - 4" junction box with integral power supply. Mounting adapter plate for junction box installation. Min 1 1/2" (38mm) deep

**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

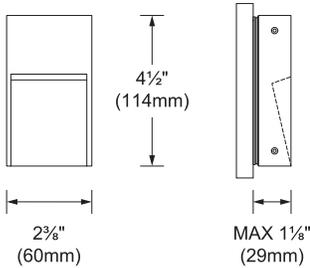
Project :

SPECIFICATION SHEET

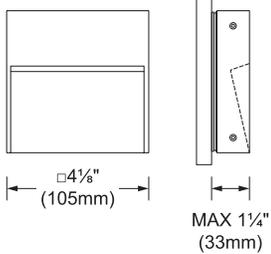
Page: 5 of 8

**DIMENSIONS**

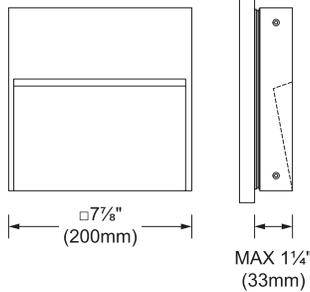
**Miniskill vertical**  
S6230



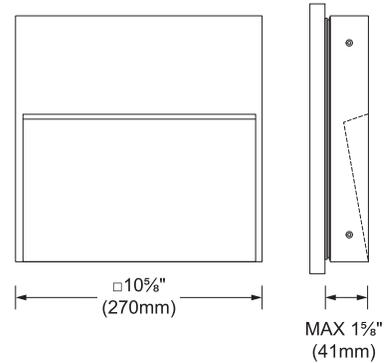
**Miniskill Square**  
S6250



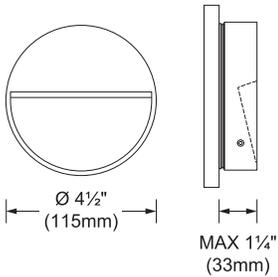
**Skill Square**  
S6260



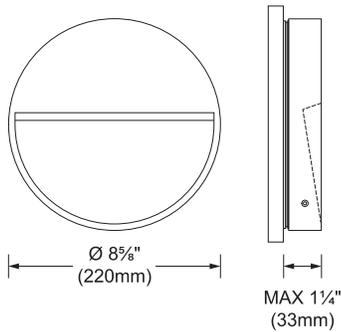
**Skill Square Large**  
S6255



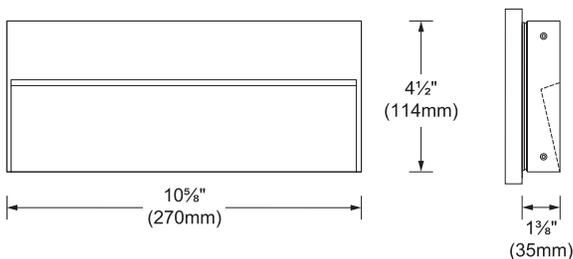
**Miniskill Round**  
S6270



**Skill Round**  
S6280



**Skill Rectangular**  
S6240



**SKILL**

SURFACE MOUNTED - FLUSH MOUNTED

Type:

Project :

SPECIFICATION SHEET

Page: 8 of 8

**PHOTOMETRIC DATA**

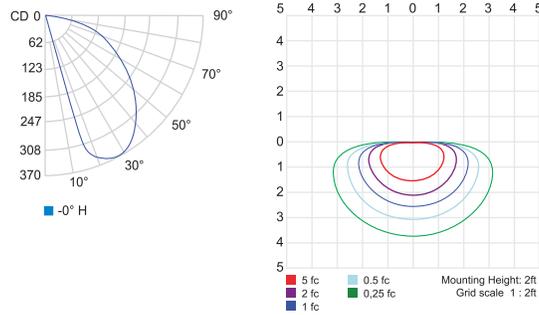
Visit [sistemalux.com](http://sistemalux.com) for complete photometric data.

**Skill Rectangular**



CCT (K)	CRI	LOAD (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODEL
3000K	90	13.5W	Accent light	420	31	363	S6240W

Accent light (3000K, 90CRI)



CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	90CRI
<b>Multiplier</b>	<b>0.94</b>	<b>1</b>	<b>1.02</b>

## DELTA STAR LED

IP66 RATED

DATE:	PROJECT:	TYPE:
-------	----------	-------

CATALOG NUMBER LOGIC:



*\*Designed for use with LED transformer. Requires magnetic low voltage dimmer.*

*\*\*Please see Adjust-e-Lume photometry to determine desired intensity.*

*\*\*\*The 360SL cost is already included in the price of UPM, UPM dual, and Power Canopy.*

**CATALOG NUMBER LOGIC**

Example: B - DS - LED - e64 - SP - A7 - BZP - 12 - 11 - A - 360SL

**MATERIAL**

(Blank) - Aluminum B - Brass S - Stainless Steel

**SERIES**

DS - Delta Star

**SOURCE**

LED - with Integral Dimming Driver (25W min. load when dimmed)\*

**LED TYPE**

e64 - 7W LED/2700K e79 - 7W LED/2700K 90CRI

e65 - 7W LED/3000K e80 - 7W LED/3000K 90CRI

e66 - 7W LED/4000K e81 - 7W LED/3500K 80CRI

e74 - 7W LED/Amber

**OPTICS**

NSP - Narrow Spot (13°) MFL - Medium Flood (23°)

SP - Spot (16°) WFL - Wide Flood (31°)

**ADJUST-E-LUME® OUTPUT INTENSITY\*\***

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

**FINISH (See page 2 for full-color swatches)**

Standard Finishes (BZP, BZW, BLP, BLW, WHP, WHW, SAP, VER)

Premium Finish (ABP, AMG, AQW, BCM, BGE, BPP, CAP, CMG, CRM, HUG, NBP, OCP, RMG, SDS, SMG, TXF, WCP, WIR)

Also available in RAL Finishes

Brass Finishes (MAC, POL, MIT)

Stainless Steel Finishes (MAC, POL)

**LENS TYPE**

12 - Soft Focus 13 - Rectilinear

**SHIELDING**

11 - Honeycomb Baffle

**CAP STYLE**

A - 45°

B - 90°

C - Flush Lens

D - 45° Less Weephole (Interior use only)

E - 90° Less Weephole (Interior use only)

F - 90° with Flush Lens

**OPTION**

360SL - Knuckle Mounting System\*\*\*

**MOD OPTIONS**

5 - 5 Ft Leads

25 - 25 Ft Leads

**B-K LIGHTING****MADE IN THE USA**

559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

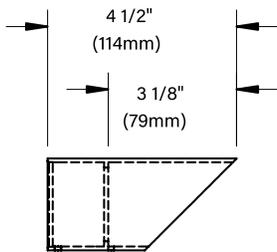
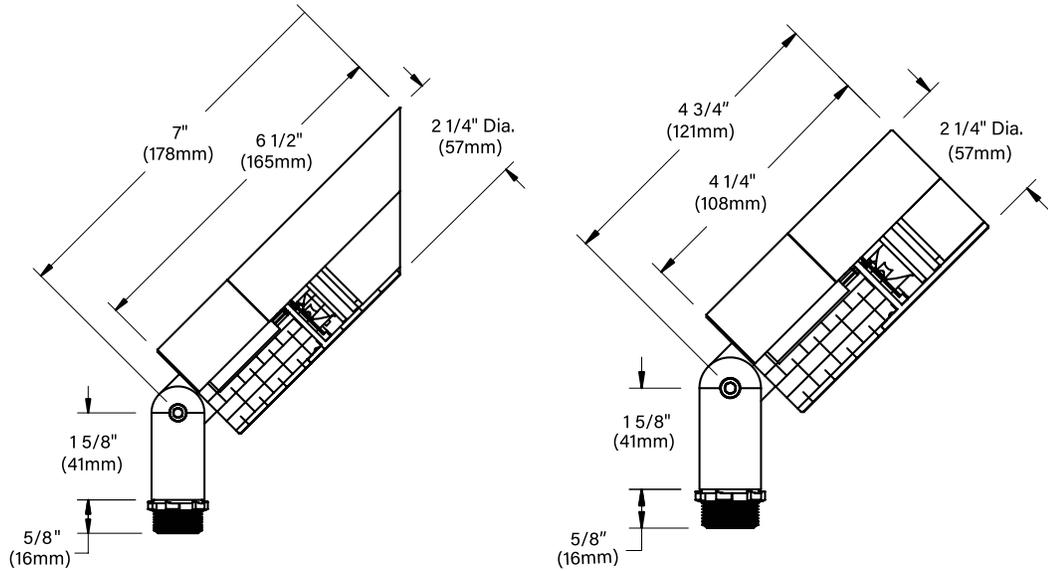
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN.

12/06/2022 SKU-739  
SUB000930

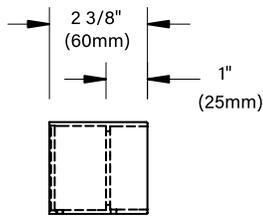
DELTA STAR LED

IP66 RATED

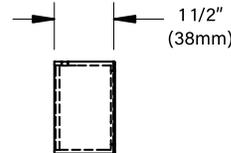
DATE: \_\_\_\_\_ PROJECT: \_\_\_\_\_ TYPE: \_\_\_\_\_



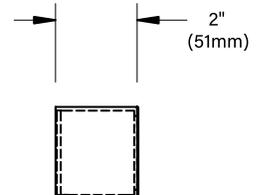
**A/D CAP**



**B/E CAP**



**C CAP**



**F CAP**

**STANDARD FINISHES**



**PREMIUM FINISHES**



[Click Here](#) to view larger, full-color swatches of all available finishes on our website.

**B-K LIGHTING**      **MADE IN THE USA**      559.438.5800 | [INFO@BKLIGHTING.COM](mailto:INFO@BKLIGHTING.COM) | [BKLIGHTING.COM](http://BKLIGHTING.COM)

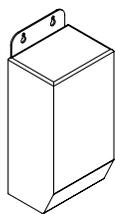
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF B-K LIGHTING, INC. AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF B-K LIGHTING, INC. IS STRICTLY FORBIDDEN. 12/06/2022 SKU-739 SUB000930

DELTA STAR LED

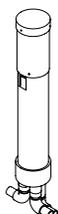
IP66 RATED

DATE:	PROJECT:	TYPE:
-------	----------	-------

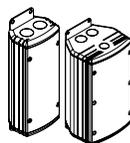
ACCESSORIES (Configure separately)



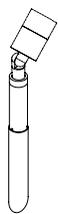
TR Series



Power Pipe



UPMRM



Power Pipe



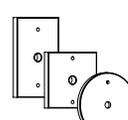
Power Canopy



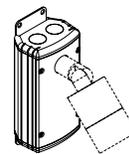
Tree Strap



Stems



Canopies



UPM

SPECIFICATIONS

ELECTRICAL	<p>WATTAGE WIRING REMOTE TRANSFORMER</p>	<p>7W LED XLPE, 18GA,150C, 600V, rated and certified to UL3321. For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.</p>
PHYSICAL	<p>MATERIALS BODY KNUCKLE  CAP LENS  LED  DIMMING  ADJUST-E-LUME  OPTICS  HARDWARE  FINISH  WARRANTY CERTIFICATION &amp; LISTING</p>	<p>Furnished in copper-free aluminum (6061-T6), brass (360) or stainless steel (304). Unibody design with enclosed, water-proof wireway and integral heat sink is fully machined from solid billet. LOCK Knuckle is integral to the body and features an interior taper machined from solid billet and a second, reverse angle taper allowing full 180° vertical adjustment without the use of aim-limiting serrated teeth. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lbs. static load prior to movement for optical alignment with a 1/2" pipe thread for mounting. Optional 360SL provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment. Fully machined and accommodates two (2) lens or louver media. Shock-resistant, tempered glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Integrated solid state system and modular design with electrical disconnects allow for easy field upgrade and maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements and exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components. Integral, constant current driver, 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current (limited to &lt;250mA non-dimming). Output, overvoltage, open-circuit, and short circuit protected. Conforms to Safety Std. C22.2 No. 250.13-12. Line voltage dimmable via magnetic low voltage dimmer with dedicated neutral conductor. Remote magnetic transformer with LED loads should be loaded to 25% of the transformer VA (watts) rated value. Integral electronics allow for dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed. Specify factory preset output intensity. Interchangeable OPTIKIT modules permit optical field changes. Color-code: Narrow Spot (NSP) = red; Spot (SP) = green; Medium Flood (MFL) = yellow; Wide Flood (WFL) = blue. Tamper-resistant, stainless steel hardware. LOCK aiming screw is black oxide treated for additional corrosion resistance. StarGuard, our 15-stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating and is RoHS compliant. Powder coat or metal finish options available for brass material and metal finish option only for stainless steel material. 5-year limited warranty. ITL tested to IESNA LM-79. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use, in wet locations, and for installation within 4' of the ground. IP66 Rated. Made in the USA with sustainable processes.</p>



**B-K LIGHTING**

**MADE IN THE USA**

559.438.5800 | INFO@BKLIGHTING.COM | BKLIGHTING.COM

LAMP & DRIVER DATA (e64, e65, e66, e74)

DATE:	PROJECT:	TYPE:
-------	----------	-------

DRIVER DATA	Input Volts	InRush Current	Operating	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA (non-dimmed)	700mA	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C - 90°C)

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

OPTICS

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

LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



It is well established that traditional forms of artificial light can disrupt sea turtle hatching patterns and disorient hatchlings. Our FWC (Florida Wildlife Commission) certified luminaires feature carefully crafted 590nm LEDs that, when used in conjunction with proper shielding, can help create a safer space for sea turtles and other wildlife.



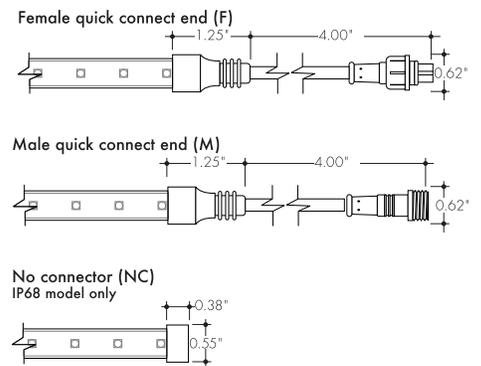
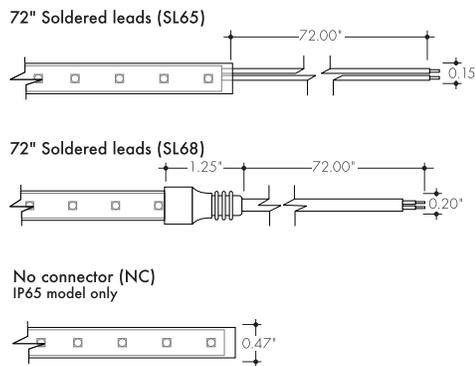
Applications: outdoor / wet location, above cabinet, cove lighting, counter accent, architectural accents, under banisters, decks, gazebos, barbeque stations and wet bars.



Technical information

MODEL	LL18-WET-T-WL
LEDS/ft	18
Light output	40 lum/ft
Average power consumption (for 15' section)	1.5 W/ft
Ordering increment	4.00"
Maximum run length (in series)	64 ft
Profile Dimensions W/connector dimensions, see line drawing	0.47" W 0.24" H

SECTION START/END OPTIONS



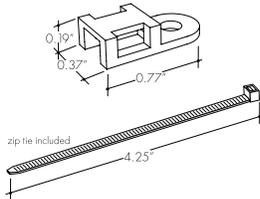
Ordering code

MODEL	COLOR	SECTION START	SECTION END	LENGTH
LL18-WET-T-WL	A	SL65	NC	
LL18-WETT-WL - LL18WET Tube, Wild life	A - Amber	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	SL65 - IP65 Soldered lead wires (72") SL68 - IP68 Soldered lead wires (72") F - Female connector M - Male connector NC - No connector	view table above for increment options and maximum run limits

Accessories

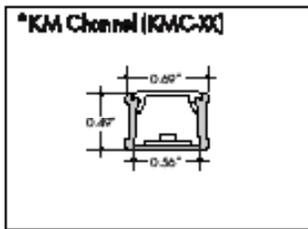
**LL.ZIP**

Cable/Wire Strain Relief Clip

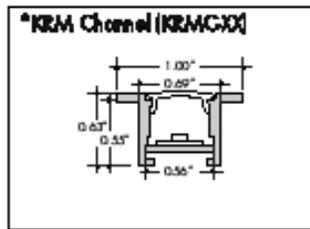


Lens options / light transmission percentage per lens

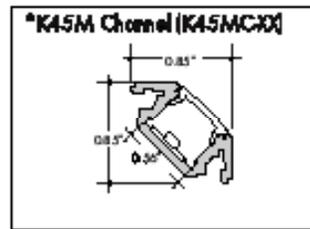
<b>C</b> Clear	<b>HF</b> Half (30%) Frosted	<b>G</b> Gaze	<b>SI</b> Satin Ice	<b>S</b> Square Frosted	<b>Q</b> Rounded Square Frosted
<b>F</b> Frosted	<b>M</b> Medium beam frosted	<b>R</b> Bevel	<b>C36</b> Clear 36° beam angle	<b>C10</b> Clear 10° beam angle	



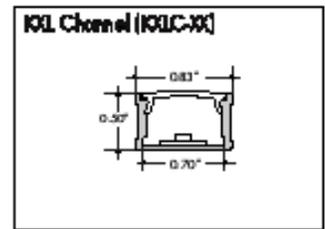
<b>C</b>	<b>F</b>	<b>HF</b>	<b>C10</b>	<b>R</b>
71%	42%	38%	67%	39%



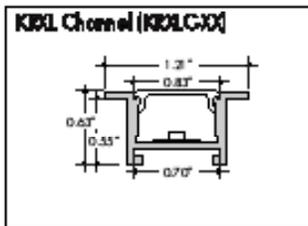
<b>C</b>	<b>F</b>	<b>HF</b>
71%	42%	38%



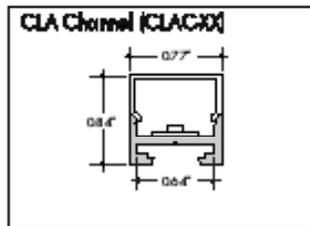
<b>C</b>	<b>F</b>	<b>HF</b>	<b>C10</b>
71%	42%	38%	67%



<b>C</b>	<b>F</b>	<b>HF</b>
74%	46%	61%



<b>C</b>	<b>F</b>	<b>HF</b>
74%	46%	61%



<b>S</b>	<b>Q</b>
62%	63%

\*Not compatible with IP68 connectors

**Installation**

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

**Ordering**

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

LineLED 18-WL Wet Tube | IP65 & IP68 rated Linear LED strip - 24V



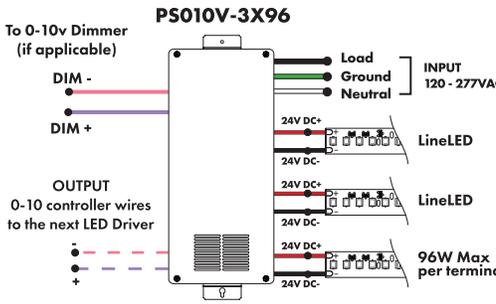
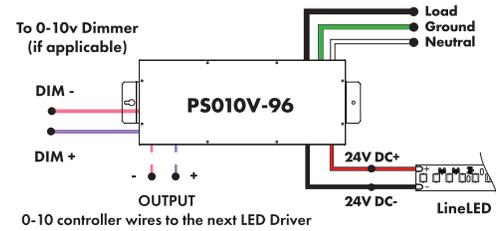
Power Supplies

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

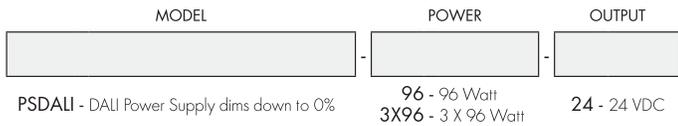
0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC



MODELS	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"

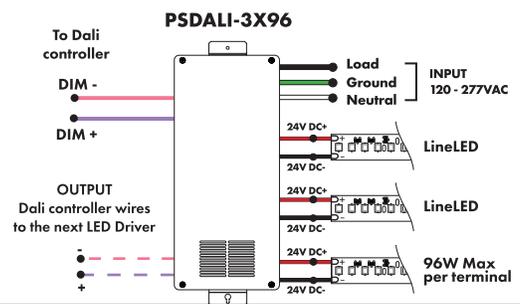
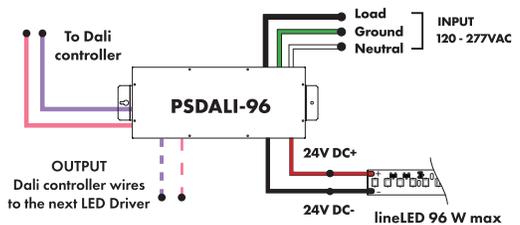


DALI 0% Dimming Power Supplies 120VAC - 277VAC

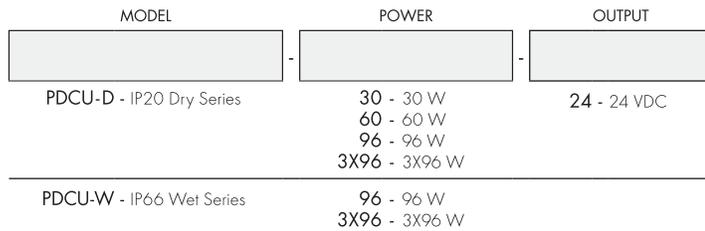


Features eldoLED's LINEARdrive configurable dimmable drivers

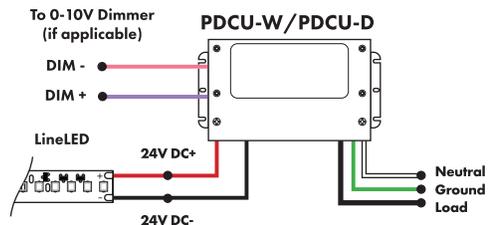
Model	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.62"
Depth	2.60"	4.20"



Universal Power Supply 1% 120VAC - 277VAC



0-10V dims down to 1%, MLV/ELV/TRIAC dims down to 1%. For a complete list of compatible dimmers, see [Compatible Dimming Chart](#) on the Resources page.



MODEL	PDCU-W-96W	PDCU-W-3X96W	PDCU-D-30W	PDCU-D-60W	PDCU-D-96W	PDCU-D-3X96W
Length	8.66"	11.85"	6.10"	7.93"	8.25"	9.57"
Width	3.73"	4.32"	3.35"	3.35"	4.10"	5.94"
Depth	1.61"	1.81"	1.33"	1.32"	1.56"	1.13"

LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



Power Supplies

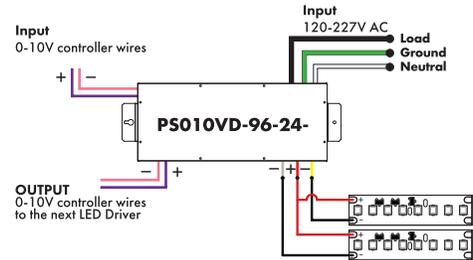
See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

Customizable Dim to Warm or Variable White via 0 - 10V  
(for tunable white or warm dimming control of Dynamic option)

MODEL	POWER	OUTPUT	CONTROL
PS010VD-0-10V Vintage Dim LED Driver	96-96 Watt	24-24 VDC	W2I-Standard dimming for both tapes

\*Zonal control power supplies

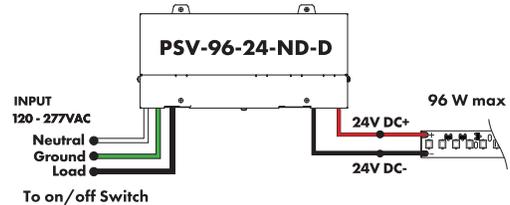
MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Non-Dimming Power Supply 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ND - Non Dimming	D - Damp

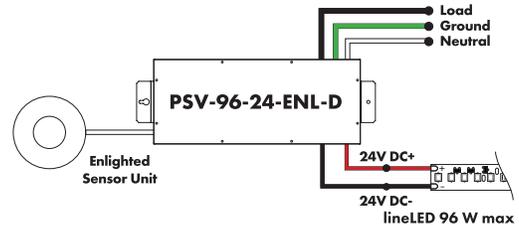
MODELS	96W
Length	8.25"
Width	3.75"
Depth	1.63"



Enlighted Enabled Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT	DIMMING	LOCATION
PSV - PSV Series	96 - 96 Watt	24 - 24 VDC	ENL - Enlighted Dimming dims down to 0%	D - Damp

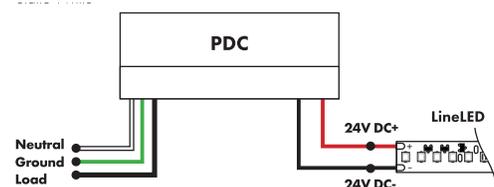
Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"



Triac, MLV, ELV Compatible Dimmers

MODEL	POWER	OUTPUT
PDC - (IP20) Power Supply	96 - 96 Watts	24 - 24 VDC

MODELS	96W
Length	8.25"
Width	4.10"
Depth	1.56"



LineLED 18-WL Wet Tube

IP65 & IP68 rated Linear LED strip - 24V



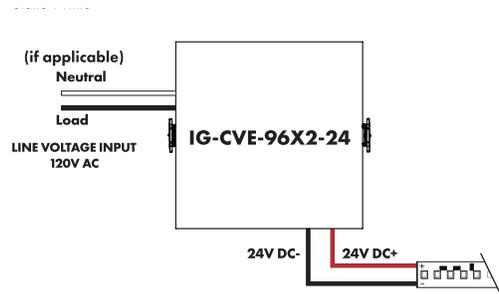
Power Supplies

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

In-Ground Power Supplies

MODEL	POWER	OUTPUT	INPUT
IG - In ground CVE Series CVE - ELV Dimming DALI - eldoLED Dali dimming Both dims down to 0%	96X2 - 2 X 96 Watt	24 - 24 VDC	Blank - 120 V 277 - 240/277 V

MODEL	Dual Circuit
Length	8.40"
Width	8.30"
Depth	8.10"

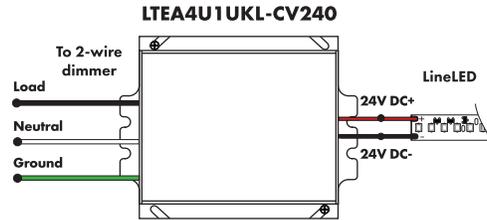


Luminii is a Lutron OEM Advantage Partner Lutron Power Supplies 1%

MODEL
LTEA4U1UKL-CV240

Lutron - HiLume™ 1% 2-wire LED Driver 40W max  
(120V forward phase only)

MODEL	LTEA41UKL-CV240
Length	4.89"
Width	4.00"
Depth	2.62"

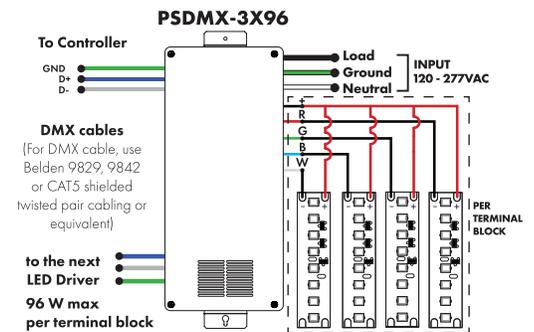
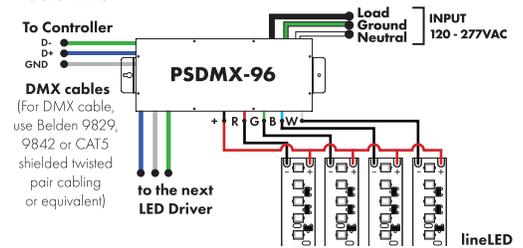


DMX Dimming Power Supplies 120VAC - 277VAC

MODEL	POWER	OUTPUT
PSDMX - DMX Power Supply dims down to 0%	96 - 96 Watt 3X96 - 3 X 96 Watt	24 - 24 VDC

Features eldoLED's LINEARdrive configurable dimmable drivers  
\*Zonal control power supplies. Control multiple tapes/zones using DMX channels.

MODEL	96W	3X96
Length	14.40"	13.00"
Width	5.20"	6.60"
Depth	2.60"	4.20"



## Decoders



MODEL

**DDMX-5CH-RDM-PRO**

DDMX-5CH-RDM-PRO-DMX512 Decoder

DMX512 decoder with RDM functionality features 5 PWM output channels with common anode. High PWM output frequency range allows the product to be used in HD video conferencing spaces. All DMX products to be installed per DMX512 Standard.

**Power**  
96 Watt

**Inputs**  
RJ45, XLR-5Pin, Terminal Block

**DMX Channels**  
1 to 5 settable

**PWM Output Resolution Ratio**  
8 or 16 bit

**PWM Output Frequency**  
500Hz - 30KHz

**Output Dimming Curve Gamma Value**  
0.1 ~ 9.9



MODEL

**DDMX-RGBW**

DDMX-RGBW - DMX512 Decoder

Translates controller DMX512 programs for RGB and white LED strips.

Unique DMX address for the decoder can be set easily and displayed by the numeric display on the case. Changing and resetting the DMX address requires manual input.

Use power repeater to expand output (Luminii part# RGBW-SR).

**Operating Voltage**  
12-36 VDC

**Power Capacity**  
up to 96W at 24V

**Operating Temperature Range**  
from -4°F to +122°F in case

**PWM Output Frequency**  
200Hz or 1500Hz



MODEL

**RGBW-RC-R**

RGBW-RC-R - RGBW receiver

The RGBW receiver is easily paired with controller by the click of a button. Receiver can be reset to factory settings at any time.

Each receiver can store one static RGB color, one color sequence, and one brightness setting for the white LED strip. Receivers assigned to the same scene within the same zone will have the same LED static color and color sequence.

**Operating Voltage**  
12-36 VDC

**Power Capacity**  
up to 96W at 24V

**Operating Temperature Range**  
from -4°F to +122°F in case

## LineLED 18-WL Wet Tube | IP65 &amp; IP68 rated Linear LED strip - 24V



## Decoders



MODEL

**RGBW-SR**

RGBW-SR - RGBW signal repeater

Extends identical signal when connected in series to an RGBW LED control system. The RGBW signal repeater works with Luminii RGB and RGBW controllers, receivers, and decoders.

RGBW signal can be extended indefinitely when adequate power supply (not included) is connected to the system.

**Operating Voltage**  
12-36 VDC

**Power Capacity**  
up to 96W at 24V

**Operating Temperature Range**  
from -4°F to +122°F in case



MODEL

**RGBW-Wi-R**

RGBW-Wi-R - WiFi generator

RGBW-Wi-R creates a local network that enables any electronic device (phone, tablet, etc.) to control the RGB/W strip connected to a RGBW-RC-R receiver.

The control functions are achieved through a free application download for Android and iOS devices called REALCOLOR.

**Operating Voltage**  
12-36 VDC

**Power Supply**  
PI-130-24 (included)

**Operating Temperature Range**  
from -4°F to +122°F in case



MODEL

**TSDMX-E**

TSDMX-E - Touchscreen DMX controller

Programmable advanced DMX512 lighting controller featuring a touch-screen interface. Operates as stand alone controller or integrated with most architectural lighting control systems. Can controller endless DMX512 enabled devices.

Mounts to standard single or dual gang wall box with the included power supply inside the junction box. Terminal block design for power and data connections.

**Features**

- Sleek glass design which sits 0.43" from the wall
- Graphical color display to show selected environment
- Color/dimmer/speed palette
- Color temperature mixing
- Touch sensitive buttons. No mechanical parts
- Touch sensitive wheel allows for accurate color selection
- Multi-zone microSD memory
- Multi-room control with 500 scenes, 10 zones
- 1024 DMX channels. Control 340 RGB fixtures
- USB & Ethernet connectivity for programming and control

**Power Supply**

7 VDC (included)

**Programmability**

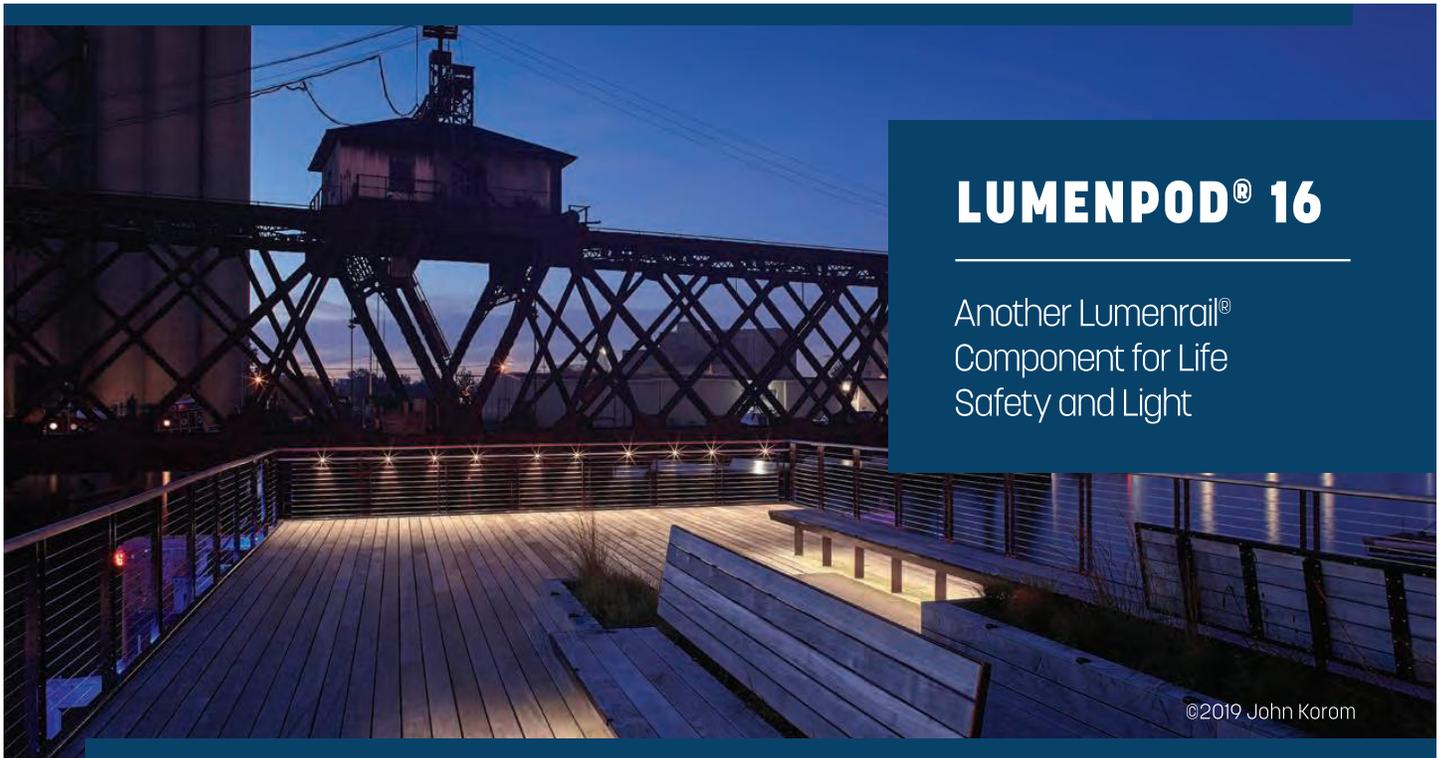
PC, Mac, Tablet, Smartphone

**Output Signal**

DMX512 (1024 channels)

**Color Parameters**

- Brightness
- Saturation
- Speed of color changing sequence
- Fading / dimming / brightness



## LUMENPOD® 16

Another Lumenrail®  
Component for Life  
Safety and Light

©2019 John Korom

### COMPACT PERFORMER

The next generation point source from Wagner Architectural Systems has performance that far exceeds the expectations of its discreet 5/8" diameter. The mechanically threaded luminaire is designed for pathway illumination with mounting options for hand rail, guardrail, decks, and shelter or entry structures. Asymmetric performance can be precisely achieved, and superior harsh environment protection and vandal resistance are combined with a simple installation. The Lumenpod provides a low-profile architectural solution for new or retrofit applications and egress compliance opportunities



*Specifications subject to change without notice. Verify data at time of order.*

- Solid machined 316 stainless steel
- Universal installation in a variety of materials
- 116 lumens per watt LED (500 mA)
- 5 IES file supported optic distributions
- IK10 impact rating and secure installation
- 24VDC operation
- ETL wet location listed
- IP67 ingress protection
- Standard in 2700 K, 3000 K and 4000 K
- 4 CCT whites and solid colors available

*Page 1 of 2*

© 2021 R&B Wagner, Inc. All Rights Reserved.  
WagnerCompanies.com  
LULF SUBM R8

# LUMENPOD® 16

Another Lumenrail® Component for Life Safety and Light



PROJECT NAME: \_\_\_\_\_

REP AGENCY: \_\_\_\_\_

APPROX. LINEAR FT: \_\_\_\_\_

SERVICE OPTIONS:  Field Measure  Job Site Support  System Installation



SCAN QR CODE for technical information, downloads and instructions.

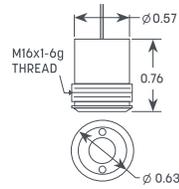
## PART NUMBER BUILDER

LULF40K703	LULF			
EXAMPLE	FIXTURE TYPE	COLOR TEMP	OPTIC	DRIVE CURRENT
<i>* Indicates stock, other options may require additional lead-time.</i>	LULF- Lumenpod® 16	*27K- 2700 K *30K- 3000 K *40K- 4000 K 50K- 5000 K	BLU- Blue GRN- Green RED- Red AMB- Amber	16- 16° beam 23- 23° beam 46- 46° beam *70- 70° beam 94- 94° beam
				*5- 2.2W @ 500 mA *3- 1.7W @ 350 mA <i>Extended life 100,000HR version requires 350 mA</i>

## ELECTRICAL SPECIFICATIONS

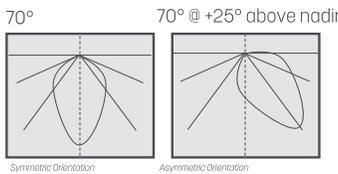
<p>Intertek</p> <p>All electrical connections to be made by a qualified electrician in accordance with all national, state and local electrical codes.</p>	24VDC	ETL LISTED WET, IK10, IP67, CE	0-10V INPUT	-40°F TO +120°F	
	INPUT VOLTAGE	CERTIFICATIONS	DIMMING	OPERATING TEMP	
	CLASS 2 REQUIRED	5 YEARS	UP TO 116 LM/W LED	80+	8"
	DRIVER	WARRANTY	EFFICIENCY	CRI	WIRE LENGTH

## CONSTRUCTION



The Lumenpod's threaded stainless steel body dissipates heat directly into the mounting material. A machined shoulder positions it nearly flush with any diameter hand rail, as well as flat or square stock.

## PHOTOMETRICS



Asymmetric performance can be fine tuned on fabricated systems by rotating the fixture around the rail diameter. A 25° angle provides superb illumination results in most applications. IES reports to view or download are available by scanning the QR code or visiting our website.

## LUMENGEAR™ LED DRIVER & NEMA ENCLOSURE OPTIONS

Wagner offers multiple ETL listed options for both 24VDC power supplies and NEMA enclosures. Quantities and types will be configured based on your specifications and design. Additional specification options are available by request. Not all options apply to all products, please verify compatibility with the factory.

### CLASS II DRIVERS:

- STD 100W
- Dali, DMX, 0-10V Dimming Protocols
- Multiple Wattages
- Made in USA Units Available

### NEMA ENCLOSURES:

- 4X - Polycarbonate, Painted Steel or Stainless Steel
- LUMENPOST™:** Integrated 100W, 0-10V DIM

Specifications may change without prior notice, verify data at time of order, all rights reserved

@wagnercompanies

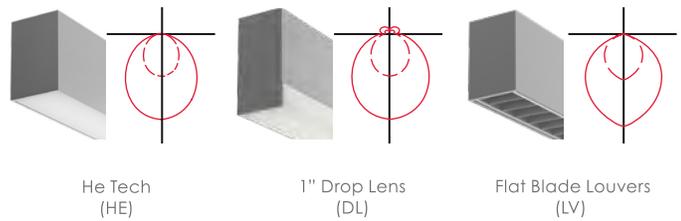


PERFORMANCE

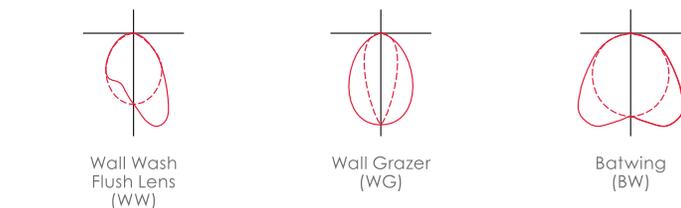
OUTPUT	OPTICS	NOMINAL		
		LM OUTPUT	INPUT WATTS	EFFICACY
LH <small>(high)</small>	HE Tech™	1075 lm/ft	10 W/ft	109 lm/W
	1" Drop Lens	861 lm/ft	9.8 W/ft	88 lm/W
LS <small>(standard)</small>	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	453 lm/ft	4.9 W/ft	95 lm/W

Based on static white 35K HE lens fixtures. For the complete photometric data of this fixture refer to page 4.

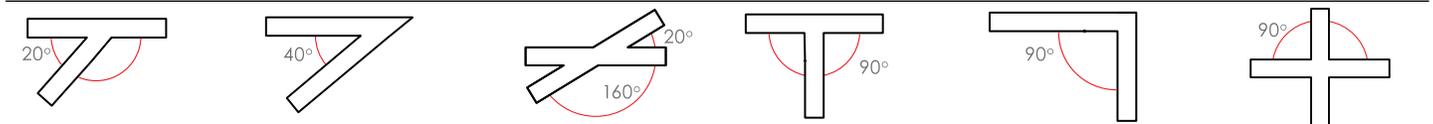
DOWNLIGHT LENS OPTIONS



OTHER OPTIONS



MULTIPLE INTERSECTIONS AND CORNERS OPTIONS



# ACL3ST

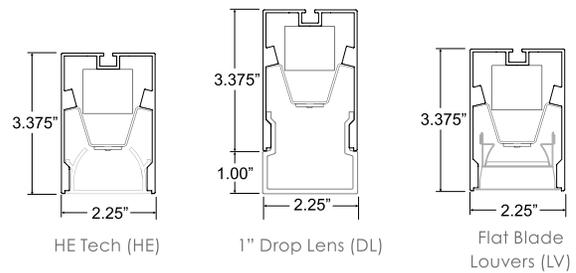
Direct - Suspended - Surface - Wall

ACL3ST combines clean lines with high performance direct distribution, for a functional and aesthetically pleasing slim profile.

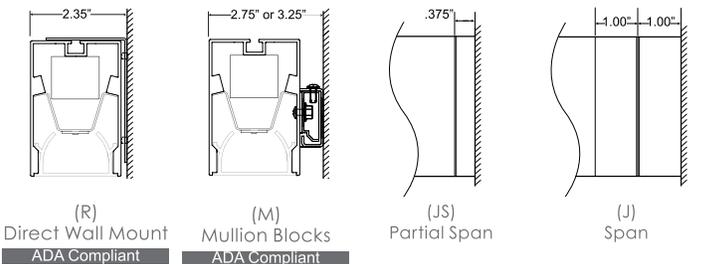
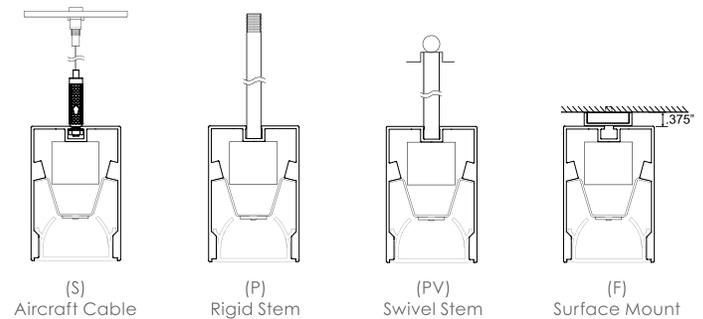
Replacement of ACCOLED - ACL3

- Unique patterns with fully lit corners and intersections possible with Design Assist.
- Individual units and continuous runs in exact lengths.
- Adjustable mounting options for ease of installation.
- Custom color options.
- Quickship nominal options.
- ADA compliant mounting options.

DIMENSIONS



MOUNTING OPTIONS



ACL3ST | SPECIFICATION

PERFORMANCE AT 3500K

PROJECT INFORMATION

OUTPUT	OPTICS	NOMINAL		
		LUMEN OUPUT	INPUT WATTS	EFFICACY
LH <small>(high)</small>	HE Tech™	1075 lm/ft	9.8 W/ft	109 lm/W
	1" Drop Lens	843 lm/ft	9.8 W/ft	86 lm/W
	Flat Blade Louver*	982 lm/ft	9.8 W/ft	100 lm/W
LS <small>(standard)</small>	HE Tech™	572 lm/ft	4.9 W/ft	117 lm/W
	1" Drop Lens	443 lm/ft	4.9 W/ft	90 lm/W
	Flat Blade Louver*	517 lm/ft	4.9 W/ft	106 lm/W

Project Info	Date
<input type="text"/>	<input type="text"/>
Type	Quantity
<input type="text"/>	<input type="text"/>

 **Need help? Don't see what you need?**

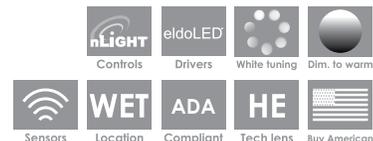
Please reach out to our factory for any specific request or questions you have. Our talented Design Assist team at: [designassist@alights.com](mailto:designassist@alights.com)

Custom tuned output available from 25% to 125% of high output. Please consult factory for custom lumen output and wattage. \*Flat Blade Louver calculated using the aluminum finish.

ACL3ST

ACL3ST	SERIES	LENGTH OR PATTERN TYPE	INTERSECTION TYPE	OUTPUT	LED CCT	CRI	VOLTAGE	DIRECT OPTICS
	ACL3ST	_ Nominal Length* M_ Exact Length**  PL_ "L" Shape*** PU_ "U" Shape*** PR_ Rectangle / Square*** CP Custom Pattern****	IT "T" Intersection* IX "X" Intersection* IY "Y" Intersection**	LH High Output LS Standard Output C_ Custom Output*	27 2700K 30 3000K 35 3500K 40 4000K TW Tunable White*  DW Dim-to-warm*	_ 80+ CRI CRI 90+ CRI*	U 120V-277V 3 347V	HE HE Tech™ DL 1" Drop Lens* LV Flat Blade Louvers** PFW Polycarbonate Flush WISP™ WW Direct Wall Wash WG Direct Wall Grazer BW Direct Batwing Wide
		*Specify in feet to the nearest foot (i.e. 12) **Specify in inches to the nearest 1/8 (i.e. 180,125) ***Specify in inches to the nearest 1/8 (See Pattern Guide (P6) for configurations) ****Contact Design Assist	*Not available with Drop Lens. Available with Flat Blade Louvers only in 90° degrees. **Fully illuminated intersection available with HE Tech and Polycarbonate Flush WISP optics only. Contact Design Assist.	*Available from 25% to 125% of LED High Output.	*Standard CCT range is 27-50K. Contact design assist for custom range	* Not offered with (TW) Tunable white or (DW) Dim-to-warm.	* Not available in Wet Location. **Aluminum Standard. Not available in Wet Location.	

MOUNTING	FINISH	DIMMING	EMERGENCY	SENSORS	OPTIONS
S Aircraft Cable* P_ Rigid Stem** PV_ Swivel Stem** R Direct Wall Mount M_ Mullion Blocks*** F Surface Mount**** JS Partial Span J Full Span	T Titanium W White B Black O_ Other*	D Standard 0-10V dimming* D1 HiLume Ecosystems 1% (LDEI) D2 Phase dimming** D4 DALI dim-to-off (EldoLED) NAIR nLight@AIR (dim-to-off) NWIR nLight@Wired (dim-to-off) DO Dimming - Other***	EC Emergency - circuited* E_ Emergency - battery**	OF Occupancy Sensor - Fixture PF Photocell / Daylight Sensor - Fixture OPF Occupancy / Daylight Sensor - Fixture	M Multi-Circuit* R Right End cap Feed L Left End cap Feed K Natatorium Application** Q Wet Location*** MRI MRI
Standard power cord exit point is 3" away from end-cap. Contact Design Assist for custom location. *Standard 48" field adjustable cable. specify length to nearest inch if over 48". Black power cord provided for black and titanium finish and white power cord provided for all other fixture finishes, unless otherwise specified. **Indicate stem length to nearest inch. 6.00" minimum. ***Enter 1 for 1" depth. Enter 5 for 1/2" depth. ****Available for ceiling and wall surface mounting.	*Specify RAL#	* 1% Dimming standard unless otherwise specified. **Reference ERP-PHB driver for compatible dimmers. ***Specify if other dimming driver is needed. Contact Design Assist.	*Not available on fixtures < 4" length. Smallest EM circuit is 2ft. If entire fixture is on EM circuit, no need to call out EC in part number. **Factory-installed emergency battery pack. Specify desired quantity of batteries. Not available on fixtures < 4" length. Not available for 347V. See technical data for more information.	*Sensor will be matched to dimming input.	*Submit multi-circuiting requirements. **Not available with aircraft cable. See guide and contact Design Assist. Not compatible with Drop Lens, Flat Blade Louvers. *** Client must specify power feed location. Not available with aircraft cable. Wet location suitable in full coverage and/or mullion mounted applications (direct to sky not recommended); not suitable for extreme weather applications. Refer to Wet Location brochure and contact Design Assist for more information. Not compatible with Drop Lens, Flat Blade Louvers optics.



LIGHT DISTRIBUTION

DISTRIBUTION

Direct Symmetric

OUTPUT

LH: High output - 9.8 W/ft  
 LS: Standard output - 4.9 W/ft  
 C: Custom tuned output - Contact Design Assist

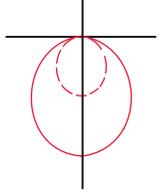
PHOTOMETRIC DATA

DIRECT SYMMETRIC

LH - 4FT - 3500K - HE TECH

Lumens: 1075 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 109 lm/W

LH:   
 LS: 

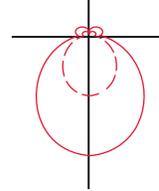


DIRECT SYMMETRIC

LH - 4FT - 3500K - DROP LENS

Lumens: 843 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 86 lm/W

LH:   
 LS: 

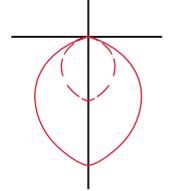


DIRECT SYMMETRIC

LH - 4FT - 3500K - BLADE LOUVERS

Lumens: 982 lm/ft  
 Input watts: 9.8 W/ft  
 Efficacy: 100 lm/W

LH:   
 LS: 



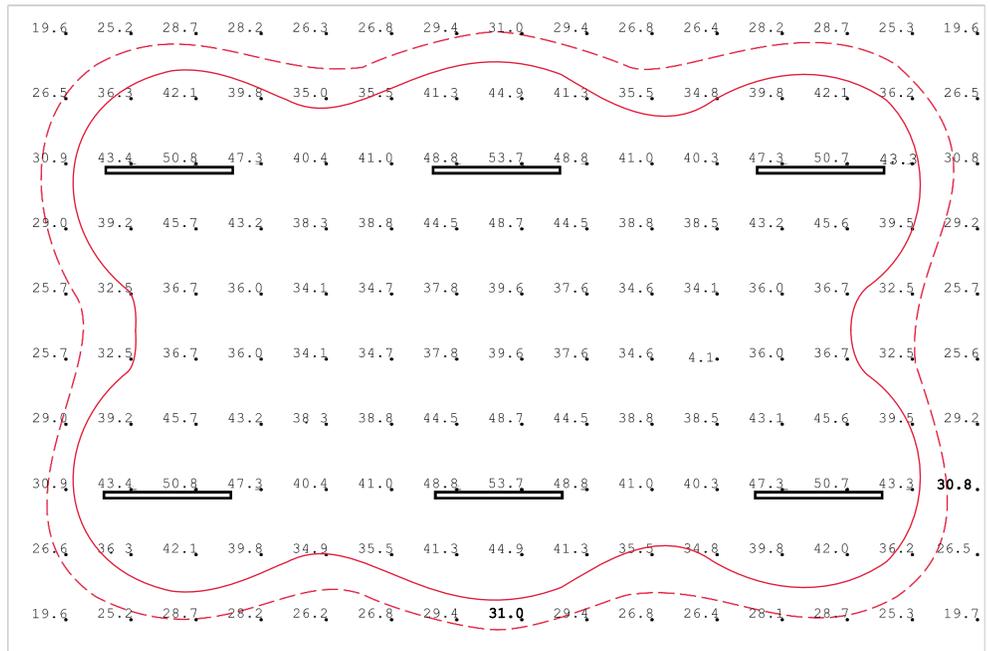
SAMPLE INSTALLATION - WORKSPACE

LH DOWN - 3500K

Room dimensions: 30'L x 20'W x 12'H  
 Reflectance: 80% / 50% / 20%  
 Mounting height: 9 ft A.F.F.  
 Fixture length: 4 ft  
 Calculation grid: 2 ft x 2 ft  
 Calculation plane (horizontal): 2.5 ft A.F.F.  
 Average Illuminance: 36 fc  
 Fixture spacing: 10 ft x 10 ft  
 Uniformity: 1.9:1 (avg/min)

TOP VIEW

30 fc:   
 25 fc: 



## LIGHT LOSS FACTORS (LLF)

OUTPUT	CCT	CRI 80+				CRI 90+			
		%	OPTICS			%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver		HE Tech™	Drop Lens	Flat Blade Louver
LH (high)	4000k	102.1%	1098 lm/ft	861 lm/ft	1003 lm/ft	90.2%	970 lm/ft	760 lm/ft	886 lm/ft
	3500k	100.0%	1075 lm/ft	843 lm/ft	982 lm/ft	87.3%	938 lm/ft	735 lm/ft	857 lm/ft
	3000k	96.2%	1034 lm/ft	811 lm/ft	945 lm/ft	82.4%	886 lm/ft	695 lm/ft	809 lm/ft
	2700k	92.6%	995 lm/ft	780 lm/ft	909 lm/ft	78.1%	840 lm/ft	659 lm/ft	767 lm/ft
LS (standard)	4000k	54.3%	584 lm/ft	453 lm/ft	528 lm/ft	48.0%	516 lm/ft	400 lm/ft	466 lm/ft
	3500k	53.2%	572 lm/ft	443 lm/ft	517 lm/ft	46.4%	499 lm/ft	387 lm/ft	451 lm/ft
	3000k	51.2%	550 lm/ft	427 lm/ft	497 lm/ft	43.8%	471 lm/ft	366 lm/ft	426 lm/ft
	2700k	49.2%	529 lm/ft	410 lm/ft	478 lm/ft	41.6%	447 lm/ft	347 lm/ft	404 lm/ft

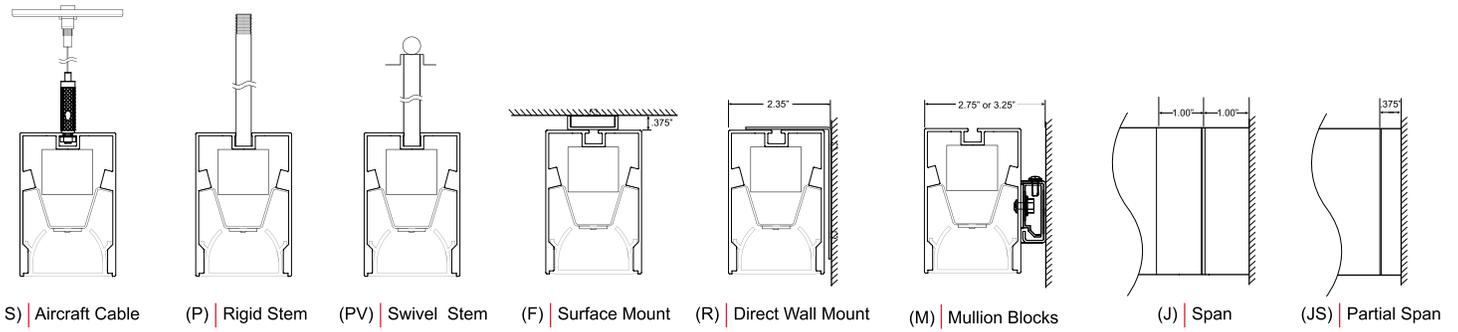
For standard output (LS) -50%.

## TUNNABLE WHITE | LIGHT LOSS FACTORS (LLF)

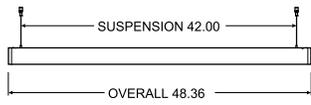
OUTPUT	CCT	CRI 80+			
		%	OPTICS		
			HE Tech™	Drop Lens	Flat Blade Louver
LH (High)	5000k	100%	890 lm/ft	727 lm/ft	847 lm/ft
	2700k	93.6%	833 lm/ft	667 lm/ft	776 lm/ft
LS (Standard)	5000k	100%	469 lm/ft	351 lm/ft	446 lm/ft
	2700k	93.6%	439 lm/ft	383 lm/ft	409 lm/ft

For standard output (LS) -50%. Values are applicable for Tunable White and Dim-to-warm only.

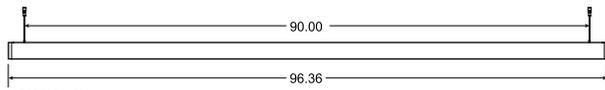
ACL3ST | MOUNTING & DIMENSIONS



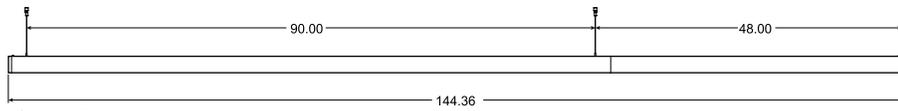
MOUNTING LENGTHS



NOMINAL 4'



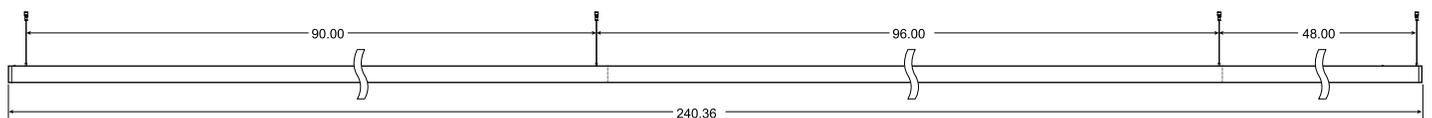
NOMINAL 6'



NOMINAL 12'



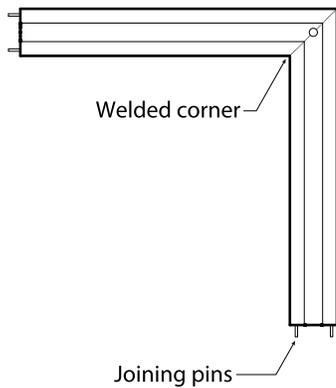
NOMINAL 16'



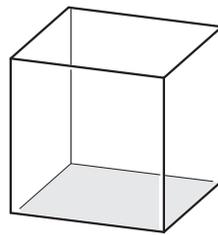
NOMINAL 20'

Standard dimensions shown for suspension points, all aircraft cable mounting lengths are adjustable on site.  
\*For nLight AIR applications: gripper needs to be at least 3.5" from the antenna. Refer to nLight dimensions section for more details.

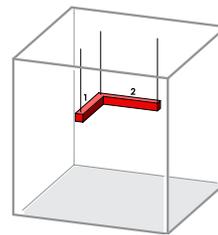
CORNER DETAIL



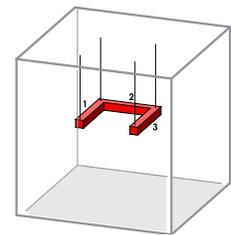
STANDARD PATTERNS



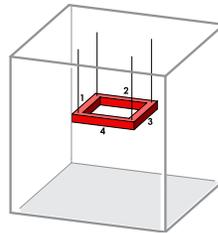
Custom Pattern\*



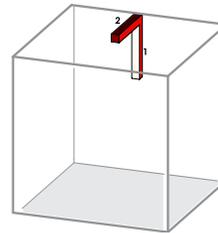
PL



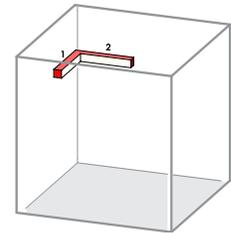
PU



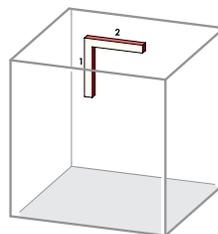
PR



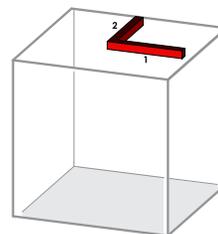
PLCW | Wall to Ceiling



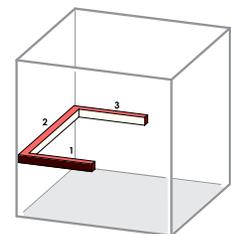
PLWW | Wall to Wall



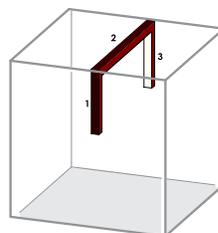
PLW | Wall Only



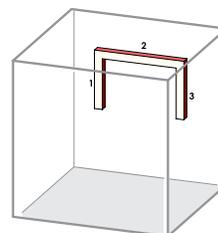
PLC | Ceiling Only



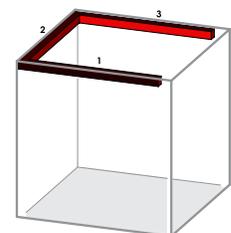
PUWW | Wall to Wall



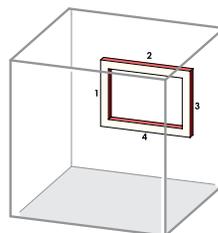
PUCW | Wall to Ceiling to Wall



PUW | Wall Only



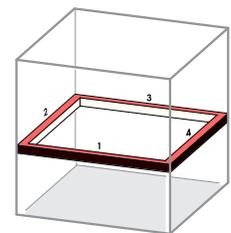
PUC | Ceiling Only



PRW | Wall Only



PRC | Ceiling Only

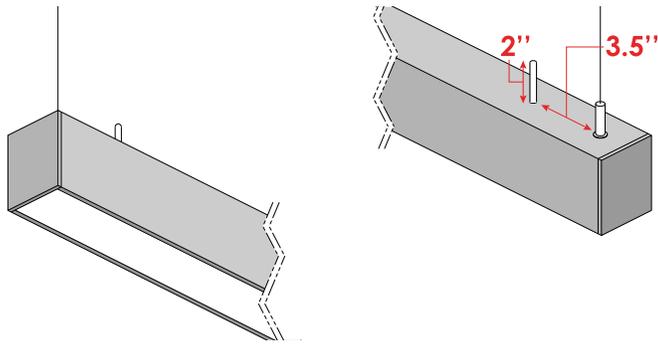


PRWW | Rectangle Wall to Wall

\*Contact design assist for custom patterns.

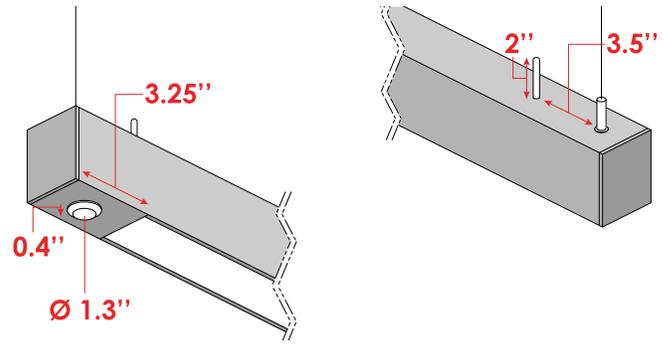
NLIGHT® DIMENSIONS

AIR : r10



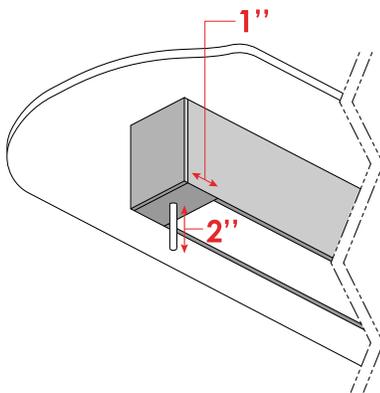
\*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : res7



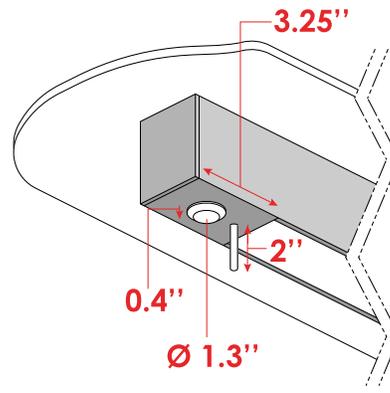
\*Fixture mounted sensors and filler panel for nLight AIR only.

AIR : r10 Surface



\*Fixture mounted sensors and filler panel for nLightAIR only.

AIR : res7 Surface



\*Fixture mounted sensors and filler panel for nLightAIR only.

## LINEAR DIMENSIONS

Nominal length individual fixtures can be joined to create continuous row lengths.

Nominal or exact lengths to the nearest 1/8th of an inch available as individual fixtures or joined to create continuous row lengths, minimum fixture lengths is 12 inches. Patterns comprised of 90 degree precisely welded fully illuminated corners provide a multitude of geometric options and architectural transitions. Custom angled corners and intersections also available upon request.

**Custom** - Contact [Design Assist](#) for modifications to product not detailed within specification sheets.

## OPTICS

He Tech™ patented high efficacy extruded diffuse acrylic lens technology with integrated opaque white reflector delivers superior lumen output with optimal uniform lens surface luminance for direct distribution.

Flat Blade Louvers are used to cut down on glare and better control the light source on ACL3ST. This option includes a linear film diffuser (inserted between the louvers and the LEDs), that enhances glare control. The louvers standard finish is aluminum. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

Drop Lens is a light diffuser option for ACL3ST that turns the luminaire into a decorative graphical statement. The diffuser drops down from the luminaire's main body of 1" and sits flush with the metal end caps. Once lit, the drop lens glows vividly and offers a wider diffusion pattern.

Perimeter fill - Wall wash, Wall grazer and Batwing wide for direct distributions are film optics that refract light along with an HE Tech™ extruded diffuse acrylic lens with integrated opaque white reflector.

## LED LIGHT SOURCE

Custom manufactured linear board array uses high performance Nichia® LED in combination with a performance driven heat sink technology. Tested in accordance with LM79 and LM-80; L70>60,000hr; operated at reduced output for high efficacy and lumen maintenance. 2700K, 3000K, 3500K, and 4000K with 80+ CRI standard; other color temperatures and 90+ CRI available upon request, contact factory. LED color variation maintained at a 3-step MacAdam ellipse (SDCM 3x). LEDs are available in Standard, and High outputs. Refer to photometry for delivered lumens. Custom output available in the range 25% to 125% of high output, contact factory.

## LED DIMMING DRIVER

Factory tuned constant current electronic 0-10V control dimming driver is standard. Specification grade dimming down to 1%. Driver life of 50,000 hrs with ambient operating temperature range of -20°C to 50°C, maximum case temperature of 80°C. Electrical specifications at maximum driver load: PF >0.9, THD <20%, >85% Efficiency. Other available drivers include Lutron Hi-lume 1% EcoSystem LED Driver (LDE1) with Soft On, Fade to Black dimming technology; and DALI protocol drivers. Other Lutron and specialty drivers available, contact factory.

## EMERGENCY

This luminaire is provided with a factory installed LED emergency lighting battery pack for both normal and emergency operation, 120-277v only. This fixture integrated unit contains long-life Ni-Cad recyclable battery, 24 hour charger, and converter circuit. Test switch and charge indicator provided. Test button to be remote located within 3 feet of the luminaire, in accordance with local code. Emergency mode provides constant power to a nominal 12W LED load for a period of 90 minutes, delivering 1200 lumens of unwavering illumination throughout the full 90 minute emergency duration. Unless otherwise specified, the emergency battery pack will illuminate one 2 foot end in the direct portion of the fixture. Not available in fixtures <4ft'.

Emergency circuiting provided as a separate circuit from normal power circuit according to NEC requirements, specify circuit length and location.

## CONTROLS

Low-profile integral occupancy and daylight sensors are available to deliver high performance control in an architecturally pleasing package.

Integrated nLight® for system networking wired and wireless:

### NLIGHT® AIR WIRELESS

The integrated API smart sensor is part of each luminaire in the nLight® AIR network, which can be grouped to control multiple luminaires. The granularity of control with the digital PIR occupancy detection and daylight sensing makes a great solution for any application. Optionally you can order nLight® AIR sensors for compatibility with an nLight Air wireless system. The rIO, rES7, rMSOD, and rCMS models are available for integration.

### CONTROLS AND SYSTEM NETWORKING OPTIONS

For wired networking via Cat-5e, choose an nLight® wired module. The nIO EZ PH, nIO EZDL CCT, nES7 and nCM are available for integration.

nLight enabled, remote mounted controls provided by others. Please contact an Acuity controls representative for more information.

**MOUNTING**

Suspension with aircraft cables or pendant stems, and full or partial span mounting available.

Aircraft cable set includes 48" standard length 1/16" stainless steel adjustable aircraft cables with secure micro grippers to field set suspension length and adjustable suspension points to accommodate existing architecture, comes factory pre-installed in fixture. 4-1/2" x 4-1/2" square white canopies, unless otherwise noted. Cord strain also included for power canopies. Power cord options available for aircraft cable. Black power cord provided for black and titanium finish, white power cord provided for all other fixture finishes unless otherwise specified.

Rigid pendant stem-set includes 1/4" hollow white threaded rod for suspension and power feed. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering. Standard specification length, 6" minimum. 5" square mono point white canopies, unless otherwise noted.

Swivel stem set includes 1/4" hollow white threaded rod for suspension and power feed, standard specification length, 6" in minimum. 5" in square mono point white 45-degree angle swivel stem, unless otherwise noted. Factory pre-drilled power feed and tapped holes, submit dimension requirements when ordering.

Specify if another suspension length is required. Canopies provided as required for the quantity of power feed and non-power feed locations (crossbar included). Specify if another shape, size, or color is required.

Direct wall mounting is ADA compliant. Factory pre-drilled holes can be tapped for 1/2" chase nipple, submit dimension requirements when ordering. The top groove of the fixture is used to mount the fixture and provides a firm and flexible mounting option.

Surface ceiling and wall mounting is offered with die-cast mounting blocks with sheet metal brackets used to provide a firm flexible mounting option in any orientation the system might be installed in.

Mullion blocks are used to mount fixtures to a horizontal or vertical window mullion and can also be used to offset fixtures from the wall. 1/2" and 1" offsets are available standard. Custom offsets are also available upon request. (2) Mullion blocks are provided for fixtures 8ft or less. Fixtures larger than 8ft are provided with (3) blocks. The maximum distance between (2) mounting blocks is 8ft. Power feed holes are pre-drilled and mounting hardware is pre-installed at the factory to the fixture housing. Standard mullion block center location point has a 3" distance from endcap. Submit custom dimension requirements when ordering.

Partial /Full span mounting conditions utilize special expansion joint end caps to mount fixture to the wall (blocking required) and feed power through the end cap, specify end feed location. Additional attachment hardware provided as required depending on partial span condition. Provide architectural details at time of ordering for inclusion in factory shop drawings; field verified dimensions required for full span mounting.

**STRUCTURE**

Robust, high quality 60% recycled aluminum extruded housing. 0.040" thick aluminum internal gear trays. Flat or flanged aluminum end caps. Aluminum joiner brackets. 2 lbs/ft approximate fixture weight.

**FINISH**

Electrostatically applied powder coat finish. Standard finish options include titanium, white, and black. Other colors and custom finish options available, specify RAL# or contact factory regarding custom finish requirement.

**LISTING**

UL/CUL rated for damp locations. Tested under UL 1598 and certified to CEC/CSA C22.1, NEC, ANSI/NFPA 70, and NOM-001-SEDE.

UL Wet location label available. Complies with UL definition of wet locations to prevent the accumulation of water on live parts, electrical components, other conductor not identified for use in contact with water through the provision of weep holes. Waterproof connector to be provided by others. Installing contractor responsible for properly sealing and waterproofing all mounting and power feed locations.

The ACL3ST is assembled in the U.S.A. and comply with the Buy America(n) Act (BAA) government procurement requirements under FAR, DFARS, and DOT.

**WARRANTY**

Limited defect-free manufactured equipment warranty provided under normal use and proper storage for five (5) year. LED products (LED boards and drivers) will be covered for five (5) years. Please refer to the full terms and conditions on our website.

# Image Spot<sup>®</sup>



## Brilliant Imaging.

Crystal clear optics allow you to project vivid images and messaging up to 40 ft. (12m) away! Using a mere 45W of power, the Image Spot LED projector packs an amazing amount of light output from a versatile and compact design.

The cool white or warm white LEDs ensure bright imaging in virtually any environment. An available filter kit allows the Image Spot to be used to illuminate subjects in museums, themed entertainment and hospitality venues.

Project:	Type:
Quantity:	Location:

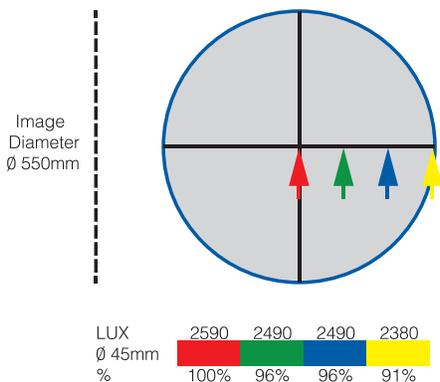


Image Spot™ HT

### KEY FEATURES

- 40W LED array with 10°, 19°, 25° or 30° beam optics provide superb image uniformity and fringe-free shadows
- IP40 rating for indoor use or IP65 rating for outdoor use HT variant for high ambient temperature environments
- Accepts Rosco Image Spot Gobos and Permacolor Dichroic Glass Color Filters
- Available OPTI-FLECS filter packs for beam diffusion
- Accepts universal line voltage input allowing operation anywhere around the globe
- DMX512 compatibility provides flicker-free dimming throughout the range: 100% ~ 0%
- 0-10V, DMX, DALI & Push to DIM dimming options
- Passive cooling means operation is completely silent
- Standard Color Options: Black, White and Silver

### Superior Uniformity Across Entire Field



# Image Spot®



## SPECIFICATIONS

Input Voltage:	100-277VAC (V1:100-240VAC)
Power Consumption:	45 Watts at maximum output
Color Temp. Options:	5500K or 3000K or UV
CRI:	5500K Model: 80 3000K Model: 95
Output:	5500K Model: 1300 lumens 3000K Model: 750 lumens
Lumen Maintenance:	50,000 hours at 45°C (LM-79-08)
Power Connection:	6.5 ft (2m) insulated standard (IP40) or hybrid data/mains cable (IP65) (Connectors not included.)
Data:	DMX512, 0-10V, DALI, Push DIM Options RJ45 Connector (IP40) In and thru, hybrid power & data cable (IP65)
DMX Addressing:	RDM functionality available for addressing
Dimensions:	Image Spot (including yoke): 7.8 in x 4.8 in x 6.8 in (198mm x 123mm x 172mm)  Image Spot HT (including yoke): 9.3 in x 4.8 in x 6.8 in (236mm x 123mm x 172mm)
Weight:	Image Spot: 5.5 lbs (2.5 kg)  Image Spot HT: 5.9 lbs (2.7 kg)
Operating Temp.:	Image Spot: -13° to 104° F (-25° to 40° C)  Image Spot HT: -13° to 122° F (-25° to 50° C)
Humidity:	0 - 95% non-condensing
Housing:	Anodized Aluminum Extrusion
Approvals:	ETL / UL Standards #62368-1 and #60950-22 cETL / CSA C22.2 #62368-1 and #6095-22 CE IP40 Rated (indoor use) or IP65 Rated (outdoor use)

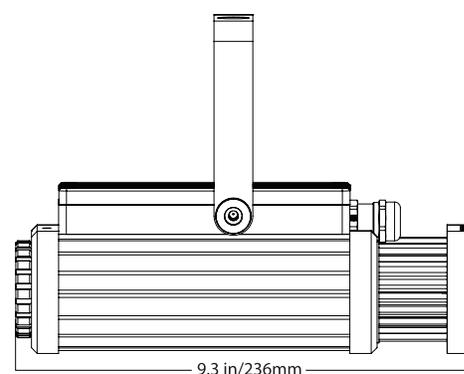
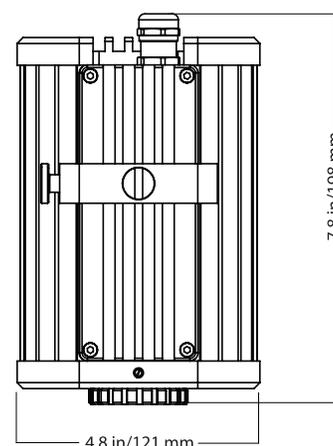
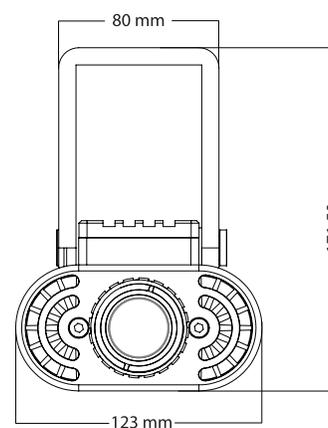
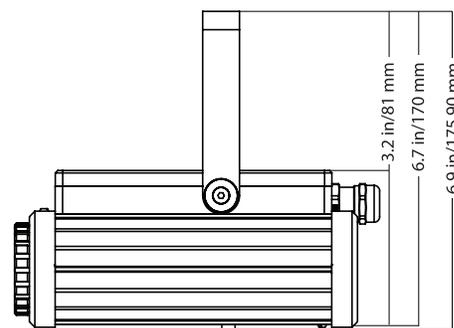


Image Spot® HT



## SPECIFICATION ORDER CODES

UNIT	CCT	Finish	Data Transfer	Mounting	Lens	Optional Accessory
Image Spot ST Image Spot IP Image Spot HT	3 - 3000K 5 - 5500K U - UV O - Custom*	B - Black W - White S - Silver C - Custom RAL	A - DMX/RDM, RJ45 (IP40 Only) B - DALI, RJ45 (IP40 Only) C - Push DIM, RJ45 (IP40 Only) 0 - 0/10V, No Connector 1 - DMX/RDM, No Connector 2 - DALI, No Connector 3 - Push to DIM, No Connector	F - Full Yoke Y - Track Mount L - Floor Mount W - Wall Mount C - Ceiling Mount P - Pole Mount N - N/A	T - 10 degree 1 - 19 degree 2 - 25 degree 3 - 30 degree N - No Lens	S - Snoot N - N/A

Example:

ImageSpot ST — 3 — B — 1 — F — T — N

ie. ImageSpot ST-3B1FTN =  
Image Spot Standard, 3000K CCT, Black, DMX/RDM, No Connector, Full Yoke, 10 degree Lens, with no additional accessories.

\*Custom color temperature available with minimum order quantity, price difference and longer lead time. For more information please contact [Project.Management@Rosco.com](mailto:Project.Management@Rosco.com)

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

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

# Image Spot®



## Image Spot® Accessories

Item Code	Description
296 00001 0013	Image Spot OPTI-FLECS Filter Pack
296 00001 0052	Image Spot Lens Cover Kit
296 00001 0017	Image Spot USB to RJ45 Programming Cable
296 00001 0011	Image Spot USB to RS485 Programming Cable
296 00001 0012	Image Spot Safety Cable, 3ft (1m)
296 00000 5001	Rosco Pole Mount Accessory - Black
296 00000 5002	Rosco Pole Mount Accessory - White
296 00000 5003	24" Stainless Steel Strap Rosco Pole Mount Kit - 3-Pack
296 00000 5004	Rosco Wall Mount Accessory - Black
296 00000 5005	Rosco Wall Mount Accessory - White

## Image Spot Gobos & Permacolor Filters

For optimum image quality and performance, use Rosco Image Spot Gobos and Permacolor Filters, which feature custom bezels that enable a secure fit inside the Image Spot gobo cassette.

### Image Spot® Gobos

Item Code	Description
<i>Standard Gobos</i>	
XXXXX-SPOT	Image Spot Standard Gobo XXXXX = The five digit standard gobo number
<i>Custom Gobos</i>	
250 7210I SPOT	Image Spot Custom Steel Gobo
260 CUSBW OSPO	Image Spot Custom B&W Glass Gobo
260 CUS1C OSPO	Image Spot Custom One-Color Glass Gobo
260 CUS2C OSPO	Image Spot Custom Two-Color Glass Gobo
260 CUSMC OSPO	Image Spot Custom Multi-Color Glass Gobo

### Permacolor™ Dichroic Filters

Item Code	Description
1203 XXXX SPOT	Image Spot Permacolor Dichroic Glass Filter XXXX = the four digit color number (includes bezel to fit inside gobo cassette)

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

**FEATURES :**

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED



FIXTURE MODEL	FIXTURE CONFIG.	POWER/ LUMEN OUTPUT*	CCT/ COLOR	CRI	BEAM ANGLE	FINISHES	ACCESSORIES	WIRING AND MOUNTING
F080	1S - Single Head	LO - Low Output MO - Medium Output HO - High Output	22 - 2200K 25 - 2500K 27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber  *2200K and 2500K not available in 40°, 60°, 70° and 90°	8 - 80 9 - 90* X - For RD, GR, BL, AM  *90 CRI not available in 2200K, 2500K, 5000K, and 6500K	05 - Laser Spot (5°) 10- Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver W - White C - Custom*  *Provide RAL #	X - No Accessory H - Half Snoot F - Full Snoot  Will ship as X if not specified	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2" NPT ; UL/CE Listed B* - 10' External Cable Bottom Exit; Surface Mount ; UL Listed C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT ; UL Listed D* - 10' External Cable Side Exit; Surface Mount ; CE Listed E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT; CE Listed *Will ship as A if not specified

**EXAMPLE: F080-1S-LO-22-8-05-S-X-A**

\*See Photometry Chart for Lumen Data

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT	OPTIC	EFFICACY	CBCP
	4	Low Output	309	5°	77	22,017
	7.5	Medium Output	531	5°	71	37,812
	11.5	High Output	744	5°	65	52,991

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

**COLOR RENDERING INDEX**  
**COLOR CONSISTENCY**  
**LUMEN DEPRECIATION**

		80+, 90+ 3-STEP MACADAM ELLIPSE			
	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300* >(69,800)**	>60,500* >(69,800)**	>60,500* >(69,800)**	>33,200*

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

NOTE: Information on this Spec Sheet is subject to change, please visit [ecosenselighting.com/downloads/raise](https://ecosenselighting.com/downloads/raise) for the most updated information.

	<b>ECOSENSE LIGHTING INC.</b> 837 NORTH SPRING STREET SUITE 103 LOS ANGELES, CA 90012	<b>P • 310.496.6255</b> <b>F • 310.496.6256</b> <b>T • 855.632.6736</b> 855.6.ECOSEN	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT <a href="https://ecosenselighting.com">ECOSENSELIGHTING.COM</a> FOR THE MOST CURRENT SPECIFICATIONS. FOR A LIST OF PATENTS VISIT <a href="https://ecosenselighting.com/ip-portfolio/">ECOSENSELIGHTING.COM/IP-PORTFOLIO/</a> ©2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, TROW, TROW AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC. RISE™, SLIM COVE™, FREEDOM TO CREATE™, MACRO™, FLIP-TO-FLAT™ ARE TRADEMARKS OF ECOSENSE LIGHTING INC.	1/4
	20220825			

DATE	PROJECT	FIRM	TYPE	
<b>ELECTRICAL</b>	<b>WATTAGE</b> <b>POWER FACTOR</b> <b>THD</b> <b>OPERATING VOLTAGE</b> <b>DRIVER</b> <b>STARTUP TEMPERATURE</b> <b>OPERATING TEMPERATURE</b> <b>STORAGE TEMPERATURE</b>	LOW OUTPUT = 4 W; MEDIUM OUTPUT = 7.5 W; HIGH OUTPUT = 11.5 W >0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) <0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO) MULTIVOLT: 110-277 VAC, 50/60 Hz INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 122 °F (-40 °C TO 50 °C) -40 °F TO 176 °F (-40 °C TO 80 °C)		
<b>CONTROL</b>	<b>DIMMING</b>	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE		
<b>PHYSICAL</b>	<b>DIMENSIONS</b> <b>HOUSING/LENS</b> <b>WEIGHT</b> <b>ENVIRONMENT</b> <b>MOUNTING OPTIONS</b>  <b>WIRING</b> <b>TOOLS</b>  <b>WIND LOAD (EPA)</b> <b>CORROSION RESISTANT</b>	W 2.49" x H 8.13" x L 6.97"; (63.33 mm x 206.45 mm x 177.05 mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS 1.25 LBS / 0.56 KG OUTDOOR + UL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL / CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m) 2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM EFFECTIVE PROJECTED AREA 0.14 ft² RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO <b>MARINE GRADE</b> CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.		

**FIXTURE RATING & CERTIFICATIONS** CE, UL CERTIFIED  
RoHS COMPLIANT, IK10



**LIMITED WARRANTY** 5 YEARS

**0-10V CONTROL OPTIONS**

100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated ..... LDCM-PL-120-277-010V-GR  
 All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

**OPTIONAL ACCESSORIES**

**Snoots**

Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-H-(K,Z,S,W,C)  
 Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-F-(K,Z,S,W,C)

**Interchangeable Lens**

If inner optic = 5°,

<b>Desired angle</b> .....	<b>order the following spread lens</b>
5 Degree .....	F080-LENS-05
10 Degree .....	F080-LENS-10
15 Degree .....	F080-LENS-15
20 Degree .....	F080-LENS-20
40 Degree .....	F080-LENS-40
60 Degree .....	F080-LENS-60
80 Degree .....	F080-LENS-80
15x60 or 60x15 Degree .....	F080-LENS-E1E3
30x60 or 60x30 .....	F080-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 80, 15x60 or 60x15, 30x60 or 60x30) .....	F080-LENS-FULLSET

NOTE: Information on this Spec Sheet is subject to change, please visit [ecosenrelighting.com/downloads/raise](http://ecosenrelighting.com/downloads/raise) for the most updated information.

<b>ECOSENSE</b> ®	<b>ECOSENSE LIGHTING INC.</b> 837 NORTH SPRING STREET SUITE 103 LOS ANGELES, CA 90012	<b>P • 310.496.6255</b> <b>F • 310.496.6256</b> <b>T • 855.632.6736</b> 855.6.ECOSEN	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT <a href="http://ECOSENSELIGHTING.COM">ECOSENSELIGHTING.COM</a> FOR THE MOST CURRENT SPECIFICATIONS. FOR A LIST OF PATENTS VISIT <a href="http://ECOSENSELIGHTING.COM/IP-PORTFOLIO/">ECOSENSELIGHTING.COM/IP-PORTFOLIO/</a> ©2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, TROY, TROY AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC. RISE™, SLIM COVE™, FREEDOM TO CREATE™, MACRO™, FLIP-TO-FLAT™ ARE TRADEMARKS OF ECOSENSE LIGHTING INC.	<b>2 / 4</b>
-------------------	--	---	---	--------------

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

**If inner optic = 40°,**

Desired angle	Order the following spread lens
5 Degree	NOT SUPPORTED
10 Degree	NOT SUPPORTED
15 Degree	NOT SUPPORTED
20 Degree	NOT SUPPORTED
40 Degree	F080-LENS-10
60 Degree	F080-LENS-40
70 Degree	F080-LENS-60
90 Degree	F080-LENS-80
15x60 or 60x15 Degree	NOT SUPPORTED
30x60 or 60x30 Degree	NOT SUPPORTED
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30)	F080-LENS-FULLSET

**Honeycomb Louver**

Honeycomb Louver F080	F080-LV-HComb
-----------------------	---------------

**Canopy Plate** (Not for use with wire Option B - External Cable Side Exit)

RISE Canopy Plate (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	RISE-CANOPY-04-(K,Z,S,W,C)
--	----------------------------

**Color Filters**

Red	F080-FILTER-RED
Blue	F080-FILTER-BLUE
Green	F080-FILTER-GREEN
Amber	F080-FILTER-AMBER

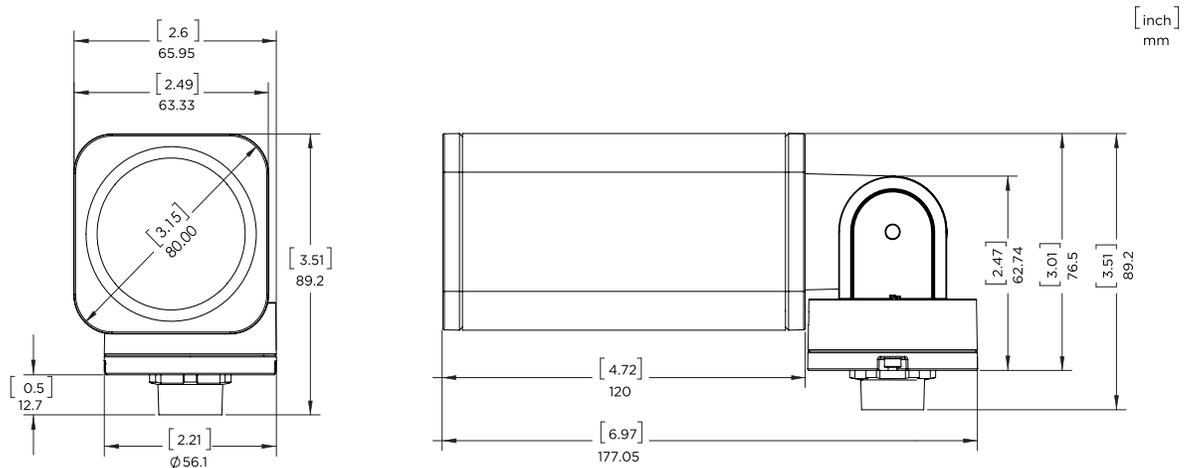
**F080 Wall Mount Arm** (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-06-(K,Z,S,W,C)
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-12-(K,Z,S,W,C)
Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-18-(K,Z,S,W,C)
Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom)	F080-WMA-24-(K,Z,S,W,C)

**Ground Stake** (for use only with Wiring Option C - External Cable Bottom Exit and not for use with multi-up fixtures)

Landscape Stake, 12 in (for use with F080 Single Head only, not for use with multi-fixture units)	F080-LS-1S-STK-12
---	-------------------

**DIMENSIONS**



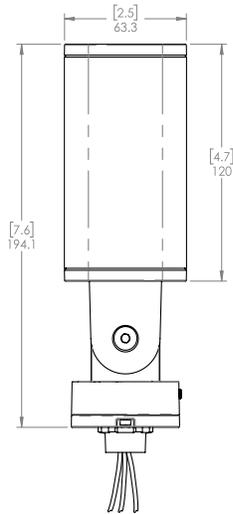
NOTE: Information on this Spec Sheet is subject to change, please visit [ecosenselighting.com/downloads/raise](https://ecosenselighting.com/downloads/raise) for the most updated information.

	<b>ECOSENSE LIGHTING INC.</b> 837 NORTH SPRING STREET SUITE 103 LOS ANGELES, CA 90012	<b>P • 310.496.6255</b> <b>F • 310.496.6256</b> <b>T • 855.632.6736</b> 855.6.ECOSEN	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT <a href="https://ecosenselighting.com">ECOSENSELIGHTING.COM</a> FOR THE MOST CURRENT SPECIFICATIONS. FOR A LIST OF PATENTS VISIT <a href="https://ecosenselighting.com/ip-portfolio/">ECOSENSELIGHTING.COM/IP-PORTFOLIO/</a> ©2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, TROY, TROY AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC. RISE™, SLIM COVE™, FREEDOM TO CREATE™, MACRO™, FLIP-TO-FLAT™ ARE TRADEMARKS OF ECOSENSE LIGHTING INC.	<b>3/4</b>
	20220825			

**WIRING GUIDE**

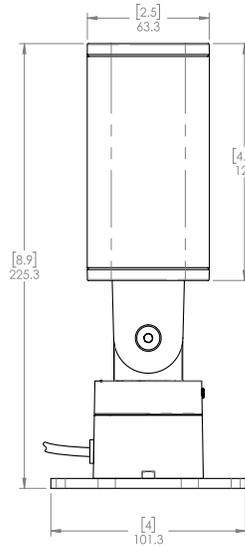
RISE is an exterior rated (IP66) fixture that is available in three different wiring options:

**Flying Leads - Internal Cable**  
(UL Listed or CE Listed)



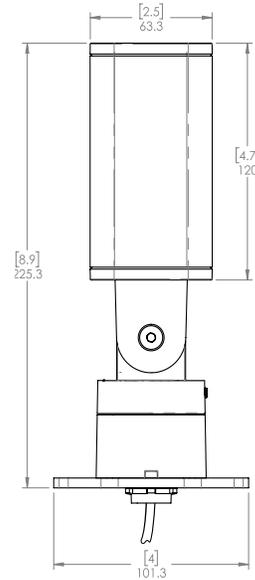
- For use with standard junction boxes
- 1/2" NPT Taper, Cable Length is 19"
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

**External Cable Side Exit**  
(UL Listed or CE Listed)



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

**External Cable Bottom Exit**  
(UL Listed or CE Listed)



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

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

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

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

**FEATURES :**

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



MODEL/ SIZE	INTERIOR/ EXTERIOR	LENGTH	POWER	CCT	CRI	VOLTAGE	OPTICS																												
L50	I E	12" 48"	2 4 6 8 10 12	WHITE CCT 22 27 30 35 40 50	MONO COLOR GR**** BL AM RD***	80-90 90* Blank For Color	MULTI-VOLT (120-277V)																												
						<table border="0"> <tr> <td>GRAZING</td> <td>WASHING</td> </tr> <tr> <td>9 x 9</td> <td>25 x 25</td> </tr> <tr> <td>9 x 17</td> <td>25 x 33</td> </tr> <tr> <td>9 x 29</td> <td>25 x 45</td> </tr> <tr> <td>9 x 59</td> <td>25 x 75</td> </tr> <tr> <td>15 x 15</td> <td>39 x 9</td> </tr> <tr> <td>15 x 23</td> <td>55 x 25</td> </tr> <tr> <td>15 x 35</td> <td>40 x 40</td> </tr> <tr> <td>15 x 65</td> <td>40 x 48</td> </tr> <tr> <td>COVE</td> <td>40 x 60</td> </tr> <tr> <td>120**</td> <td>40 x 90</td> </tr> <tr> <td>Asym</td> <td>45 x 15</td> </tr> <tr> <td>LINE OF LIGHT</td> <td>70 x 40</td> </tr> <tr> <td>LOL</td> <td>70 x 70</td> </tr> </table>		GRAZING	WASHING	9 x 9	25 x 25	9 x 17	25 x 33	9 x 29	25 x 45	9 x 59	25 x 75	15 x 15	39 x 9	15 x 23	55 x 25	15 x 35	40 x 40	15 x 65	40 x 48	COVE	40 x 60	120**	40 x 90	Asym	45 x 15	LINE OF LIGHT	70 x 40	LOL	70 x 70
GRAZING	WASHING																																		
9 x 9	25 x 25																																		
9 x 17	25 x 33																																		
9 x 29	25 x 45																																		
9 x 59	25 x 75																																		
15 x 15	39 x 9																																		
15 x 23	55 x 25																																		
15 x 35	40 x 40																																		
15 x 65	40 x 48																																		
COVE	40 x 60																																		
120**	40 x 90																																		
Asym	45 x 15																																		
LINE OF LIGHT	70 x 40																																		
LOL	70 x 70																																		

**EXAMPLE:** L50-I-48-10-27-90-MULT-15x65 \*90 CRI not available in 2200K or 5000K \*\*120 is only available with Exterior option. See L35 spec sheet for interior cove options. \*\*\*Red is not available in 12W or 10W. \*\*\*\*Green is not available in 12W.

PERFORMANCE	WATTS	OPTIC	LUMEN OUTPUT	EFFICACY
	2W	LOL	85 lm/LF ( 278 lm/m )	42 lm/W
	4W	LOL	208 lm/LF ( 684 lm/m )	52 lm/W
	6W	LOL	332 lm/LF ( 1089 lm/m )	55 lm/W
	8W	LOL	462 lm/LF ( 1517 lm/m )	58 lm/W
	10W	LOL	560 lm/LF ( 1837 lm/m )	56 lm/W
	12W	LOL	651 lm/LF ( 2136 lm/m )	54 lm/W

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

<b>COLOR RENDERING INDEX</b>	80+, 90+					
<b>COLOR CONSISTENCY</b>	2-STEP MACADAM ELLIPSE					
<b>LUMEN DEPRECIATION / RATED LIFE</b>	WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C	*CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR
	2W-12W	>150,000	>70,000	>50,000	>25,000	

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

<b>ELECTRICAL</b>	<b>POWER CONSUMPTION</b>	2W*/LF (6.6W/M) ; 4W/LF (13.2W/M) ; 6W/LF (19.8W/M) ; 8W/LF (26.4W/M) ; 10W/LF (33W/M) ; 12W/FL (39.6W/M) * 3W/LF (9.9W/M) at 220V -277V																																																																											
	<b>MAX FIXTURE RUN LENGTH</b>	<table border="1"> <thead> <tr> <th rowspan="2">Volts</th> <th colspan="2">2W/LF</th> <th colspan="2">4W/LF</th> <th colspan="2">6W/LF</th> <th colspan="2">8W/LF</th> <th colspan="2">10W/LF</th> <th colspan="2">12W/LF</th> </tr> <tr> <th>Max Run all 1'</th> <th>Max Run all 4'</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>214</td> <td>214</td> <td>186</td> <td>186</td> <td>152</td> <td>152</td> <td>114</td> <td>114</td> <td>91</td> <td>91</td> <td>76</td> <td>76</td> </tr> <tr> <td>220</td> <td>374</td> <td>392</td> <td>340</td> <td>340</td> <td>277</td> <td>277</td> <td>209</td> <td>209</td> <td>95</td> <td>167</td> <td>95</td> <td>139</td> </tr> <tr> <td>277</td> <td>374</td> <td>494</td> <td>374</td> <td>428</td> <td>349</td> <td>349</td> <td>263</td> <td>263</td> <td>95</td> <td>190</td> <td>95</td> <td>175</td> </tr> </tbody> </table>												Volts	2W/LF		4W/LF		6W/LF		8W/LF		10W/LF		12W/LF		Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	120	214	214	186	186	152	152	114	114	91	91	76	76	220	374	392	340	340	277	277	209	209	95	167	95	139	277	374	494	374	428	349	349	263	263	95	190	95	175
	Volts	2W/LF		4W/LF		6W/LF		8W/LF		10W/LF		12W/LF																																																																	
Max Run all 1'		Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'																																																																	
120	214	214	186	186	152	152	114	114	91	91	76	76																																																																	
220	374	392	340	340	277	277	209	209	95	167	95	139																																																																	
277	374	494	374	428	349	349	263	263	95	190	95	175																																																																	
	<b>POWER FACTOR</b>	4W, 6W, 8W, 10W, 12W >0.9, 2W<0.9																																																																											
	<b>OPERATING VOLTAGE</b>	MULTIVOLT: 110-277VAC, 50/60 Hz																																																																											
	<b>DRIVER</b>	INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS																																																																											
	<b>STARTUP TEMPERATURE</b>	-40°F TO 122°F (-40°C TO 50°C)																																																																											
	<b>OPERATING TEMPERATURE</b>	-40°F TO 122°F (-40°C TO 50°C)																																																																											
	<b>STORAGE TEMPERATURE</b>	-40°F TO 176°F (-40°C TO 80°C)																																																																											

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

	<b>ECOSENSE LIGHTING INC.</b> 837 NORTH SPRING STREET SUITE 103 LOS ANGELES, CA 90012	<b>P • 310.496.6255</b> <b>F • 310.496.6256</b> <b>T • 855.632.6736</b> 855.6.ECOSEN	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT <a href="http://ECOSENSELIGHTING.COM">ECOSENSELIGHTING.COM</a> FOR THE MOST CURRENT SPECIFICATIONS. © 2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, RISE, TROV, SLIM COVE AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC. <b>FREEDOM TO CREATE™</b>	1/3
	2021209			

TRÖV®

OVERVIEW • SPECIFICATIONS • ORDERING

INTERIOR + EXTERIOR | L50 LOL

DATE	PROJECT	FIRM	TYPE
<b>CONTROL</b>	<b>DIMMING</b>	110-277VAC, ELV TYPE 0.07%-100%, REVERSE PHASE, TRAILING EDGE ETC control systems require 0-10V control using EcoSense LDCM. TROV will not work with ETC phase dimmers.	
<b>PHYSICAL</b>	<b>DIMENSIONS</b> <b>HOUSING /LENS</b> <b>WEIGHT</b> <b>CONNECTORS</b> <b>ENVIRONMENT</b>	W 1.6" x H 2" x L 12"/48" ; (41.6mm x 50.5mm x 304.7mm/1201mm) EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS; PLASTIC ENDCAPS RUBBER OVERMOLD FOR CABLE ASSEMBLY 1.52LBS / 0.69KG (1FT) ; 4.95LBS / 2.25KG (4FT) INTEGRAL MALE/ FEMALE CONNECTORS INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP54 OUTDOOR • ETL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 Not intended to be used in water features such as waterfalls, fountains, etc.	
	<b>BEAM ANGLE</b> <b>MOUNTING OPTIONS</b>	GRAZING, WASHING, COVE, ASYMMETRIC, LINE OF LIGHT INTEGRAL MOUNTING AND ADJUSTABLE AIMING FROM 0°-180° IN 15° INCREMENTS	
<b>FIXTURE RATING &amp; CERTIFICATIONS</b>	<b>CE, ETL CERTIFIED</b> <b>RoHS COMPLIANT</b> <b>RCM CERTIFIED</b>	   	Title 24 JA8-2016 *90 CRI models only
<b>LIMITED WARRANTY</b>	<b>5 YEARS</b>		

**WIRING OPTIONS (MVOLT): 110-277VAC**

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

\*Two (2) terminators are included with the 10' and 50' power cable. One Leader need per circuit/fixture run. Cables are not plenum rated.  
\*\* If using the 5' or 1' power cable assembly as a leader to power a run, one set of CBL-3P-L-UNV-CAPS will also be needed per cable.

**0-10V CONTROL OPTIONS**

100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated ..... LDCM-PL-120-277-010V-GR  
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

**OPTIONAL ACCESSORIES**

**Mounting**

Mounting Track and Clips Set, 48 Inch Track, 8 Clips.....	MNT-L-TRKCLIP-48	.....48" track and clips set will work with one 48" fixture or four 12" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track and Clips Set, 12 Inch Track, 2 Clips.....	MNT-L-TRKCLIP-12	.....12" track will not work with 48" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track Clip, TROV, Set of 2.....	MNT-L-CLIP	.....Clips needed = 12" fixtures need 1 set of 2 and 48" fixture needs 2 sets of 2.
90 Degree L bracket, TROV, Set of 2.....	MNT-L-LBKT	.....L-Brackets needed = 12" fixtures need 1 set of 2 and 48" fixture needs 1 set of 2.
Angle Locking Clip, TROV, Pack of 10.....	MNT-L-ANGLOCK	.....Angle Locks needed = 12" fixtures need 1 and 48" fixtures need 2. (Must order separately)
Mounting, Fine Adjustment Bracket, TROV.....	MNT-L-FAB	.....Fine Adjustment Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment Bracket is highly recommended for Grazing Optics.		
Mounting, Fine Adjustment L-Bracket, TROV.....	MNT-L-LFAB	.....Fine Adjustment L-Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment L-Bracket is recommended for Asymetric Optics when aiming is needed.		

**Snap-on Lenses**

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

**Wall Mount Arm**

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

**Louvers**

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



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

**P • 310.496.6255**  
**F • 310.496.6256**  
**T • 855.632.6736**  
855.6.ECOSEN

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT [ECOSENSELIGHTING.COM](http://ECOSENSELIGHTING.COM) FOR THE MOST CURRENT SPECIFICATIONS.  
© 2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, RISE, TROV, SLIM COVE AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC.  
**FREEDOM TO CREATE™**

DATE	PROJECT	FIRM	TYPE
------	---------	------	------

**OPTIONAL ACCESSORIES**

**Masking Plates**

Masking Plate, 3 inch high, 12 inch, L50 & L35 ..... MP-L50-3H-12  
 Masking Plate, 3 inch high, 48 inch, L50 & L35 ..... MP-L50-3H-48

Masking Plates needed = One 12" plate is needed per 12" fixture and one 48" plate is needed per 48" fixture.

**Landscape Stake**

Landscape Stake, 6 inch, TROV, Set of 2 ..... LS-L-STK-06  
 Landscape Stake, 12 inch, TROV, Set of 2 ..... LS-L-STK-12  
 Landscape Stake, 18 inch, TROV, Set of 2 ..... LS-L-STK-18

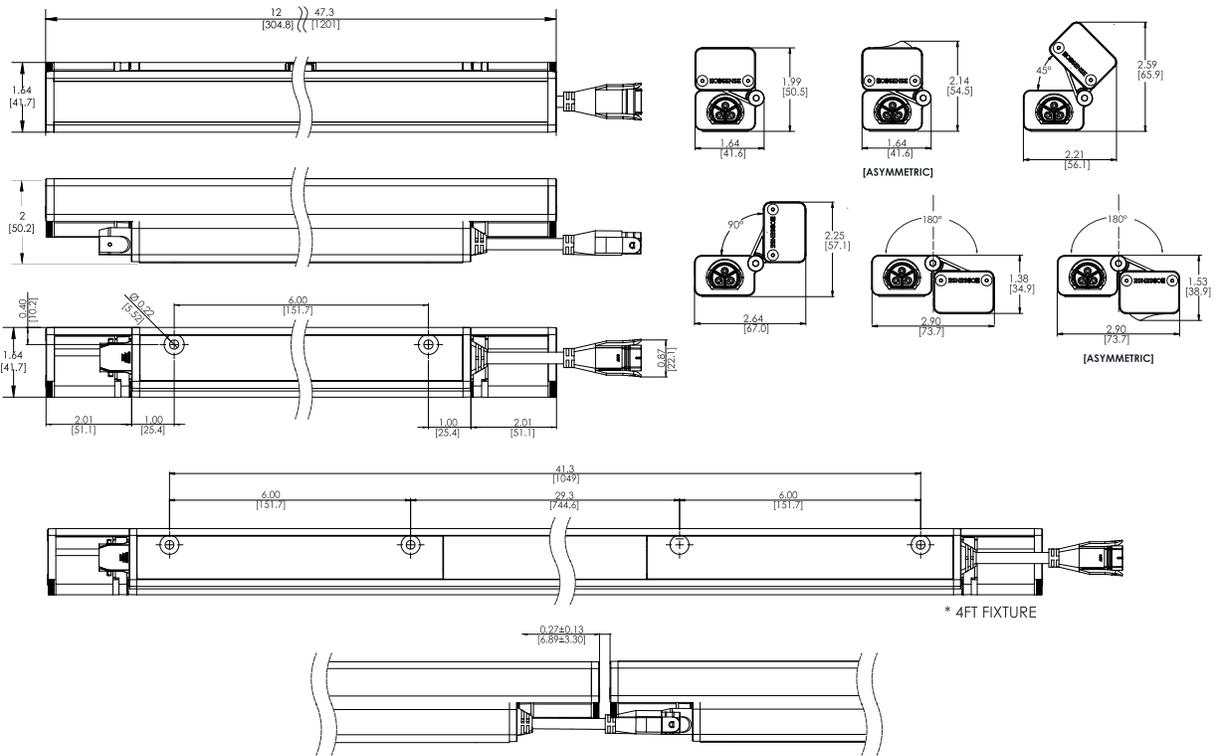
Landscape Stakes needed = 12" and 48" fixtures both need one set of 2.

**Wire Box**

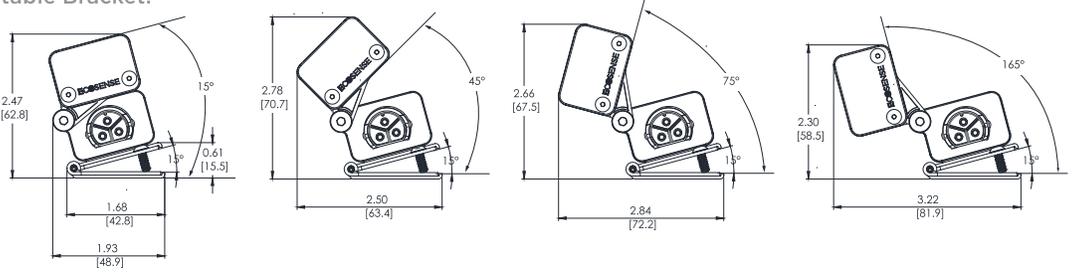
Conduit Connection, Wire Box, TROV, Interior Only, L50 ..... CC-L-WIREBOX

Wire box can be used instead of a leader cable to start a run. 1/2" conduit fitting can attach directly to the box on one end and the fixture to the other.

**DIMENSIONS + MOUNTING**



**Fine Adjustable Bracket:**



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

**P** • 310.496.6255  
**F** • 310.496.6256  
**T** • 855.632.6736  
 855.6.ECOSEN

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE. VISIT [ECOSENSELIGHTING.COM](http://ECOSENSELIGHTING.COM) FOR THE MOST CURRENT SPECIFICATIONS.  
 © 2019 ECOSENSE LIGHTING INC. ALL RIGHTS RESERVED. ECOSENSE, THE ECOSENSE LOGO, RISE, TROV, SLIM COVE AND ECOSPEC ARE REGISTERED TRADEMARKS OF ECOSENSE LIGHTING INC.  
**FREEDOM TO CREATE™**