URBAN DESIGN COMMISSION APPLICATION



City of Madison **Planning Division**



FOR OFFICE USE ONLY: Madison Municipal Building, Suite 017 Paid Receipt # _____ 215 Martin Luther King, Jr. Blvd. P.O. Box 2985 Date received Madison, WI 53701-2985 Received by (608) 266-4635 Aldermanic District Zoning District Complete all sections of this application, including Urban Design District _____ the desired meeting date and the action requested. If you need an interpreter, translator, materials in alternate Submittal reviewed by _____ formats or other accommodations to access these forms, please call the phone number above immediately. Legistar # 1. Project Information 636 West Washington Avenue Address: West Washington Place Title: 2. Application Type (check all that apply) and Requested Date November 20, 2019 UDC meeting date requested New development ☐ Alteration to an existing or previously-approved development X Informational Initial approval Final approval 3. Project Type Project in an Urban Design District Signage Project in the Downtown Core District (DC), Urban Comprehensive Design Review (CDR) Mixed-Use District (UMX), or Mixed-Use Center District (MXC) Signage Variance (i.e. modification of signage height, Project in the Suburban Employment Center District (SEC). area, and setback) Campus Institutional District (CI), or Employment Campus Other District (EC) □ Please specify ☐ Planned Development (PD) General Development Plan (GDP) □ Specific Implementation Plan (SIP) Planned Multi-Use Site or Residential Building Complex 4. Applicant, Agent, and Property Owner Information Company Plunkett Raysich Architects, LLP Kirk Keller Applicant name City/State/Zip Madison, WI 53718 2310 Crossroads Drive, Suite 2000 Street address Email kkeller@prarch.com 608-240-9900 Telephone Project contact person Kirk Keller Company Plunkett Raysich Architects, LLP City/State/Zip Madison, WI 53718 2310 Crossroads Drive, Suite 2000 Street address Email kkeller@prarch.com 608-240-9900 Telephone Greenway Real Estate LLC Property owner (if not applicant) City/State/Zip McFarland, WI 53558 2292 County Hwy. AB Street address

Email garyshmerler@gmail.com

608-516-4313

Telephone

5. Required Submittal Materials

- Application Form
- ✓ Letter of Intent
 - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
 - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development plans (Refer to checklist on Page 4 for plan details)
- ☑ Electronic Submittal*

Each submittal must include fourteen (14) 11" x 17" collated paper copies. Landscape and Lighting plans (if required) must be full-sized and legible. Please refrain from using plastic covers or spiral binding.

Both the paper copies and electronic copies <u>must</u> be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to <u>udcapplications@cityofmadison.com</u>. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

6. Applicant Declarations

- 1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Matt Tucker and others on April 15, 2019 UDC Informational Presentation on Wednesday, October 2
- 2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of applicant Kirk Keller

Authorizing signature of property owner

Date Of Oct. / 9

7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- ☐ Urban Design Districts: \$350 (per §35.24(6) MGO).
- Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX): \$150 (per §33.24(6)(b) MGO)
- Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- ☐ Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- □ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

URBAN DESIGN COMMISSION APPROVAL PROCESS



Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- <u>Informational Presentation</u>. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- <u>Initial Approval</u>. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information that should be addressed at Final Approval stage.
- <u>Final Approval</u>. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. Applicants/presenters are responsible for all presentation materials, AV equipment and easels.

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST



The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1.	Informa	tional Presentation
		Locator Map
		Letter of Intent (If the project is within an Urban Design District, a summary of

☐ Two-dimensional (2D) images of

proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

- 1. Title block
- 2. Sheet number
- 3. North arrow
- 4. Scale, both written and graphic
- 5. Date
- 6. Fully dimensioned plans, scaled at 1"= 40' or larger

** All plans must be legible, including the full-sized landscape and lighting plans (if required)

2. Initial Approval

Locator Map

☐ Site Plan

- Letter of Intent (If the project is within a Urban Design District, a summary of <a href="https://how.ncbi.nlm.
- Contextual site information, including photographs and layout of adjacent buildings/ structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List (must be legible)
- Building Elevations in both black & white and color for all building sides (include material callouts)
- PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), plus:

- Grading Plan
- ☐ Proposed Signage (if applicable)
- Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

(2.3
Locator Map
Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
Contextual site information, including photographs of existing signage both on site and within proximity to the project site
Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
Illustration of the proposed signage that meets Ch. 31, MGO compared to what is being requested.

October 9, 2019

City of Madison Plan Commission City of Madison Urban Design Commission 215 Martin Luther King, Jr. Blvd Madison, WI 53703

LETTER OF INTENT – 636 W. Washington Avenue

Commission Members:

The owner of 636 West Washington Ave is proposing the demolition of existing improvements and construction of a new mixed-use project. The 33,100 square foot site is currently improved with a gas station and 2nd floor office space. The proposed 5-story redevelopment will include 51 apartment units, approximately 7,500 square feet of commercial space, and two-levels of underground parking containing 70 parking stalls. The proposed project is in full compliance with the existing zoning of Urban Mixed-Use and all applicable Design Standards, including compliance with the Downtown Stepback Map. A concurrently submitted application for a Certified Survey Map will combine the existing, underlying lots into a single mapped lot.

The mix of apartment types will be as follows:

 Studios:
 7 (14%)

 One-Bedroom:
 25 (49%)

 Two-Bedroom:
 15 (29%)

 Three-Bedroom:
 4 (8%)

Five of the 5th floor units will have lofts and private roof top patios.

Building amenities will include:

- 5th floor community room and outdoor patio space
- Tenant exercise room
- Ample tenant storage
- Interior bike storage and maintenance area
- Interior trash room and garbage chute
- Tenant lobby with large package storage and refrigerated storage for grocery delivery
- In-building pet wash area and exterior dog-walk area

Building Details:

- 5-stories (exterior will include a combination of brick, stone, and cementitious siding)
- 110,000 gross square feet (including underground parking area)
- 70 underground parking stalls
- 13 exterior parking stalls
- Energy efficient HVAC equipment, LED lighting, solar ready construction

Project Schedule:

• Demolition: Spring of 2020

• Construction: Late Spring of 2020 (12-month duration)

• Opening: May 1, 2021

jlee.res@gmail.com

From: jlee.res@gmail.com

Sent: Friday, August 30, 2019 3:40 PM

To: 'Tim Kamps'; 'Jonathan Cooper'; 'Verveer, Mike'

Cc: 'Firchow, Kevin'; 'Kirk Keller'; garyshmerler@gmail.com

Subject: 636 W. Washington

Gentlemen – in accordance with the Pre-Application Notification provision of the City of Madison Land Use Application, I am following up with you in writing, reiterating that the owner of 636 W. Washington Ave intends to submit in early October, a Land Use Application, including a request for demolition of the existing gas station, for the construction of a new mixed-use building in this location. The new building will include approximately 52 apartment units plus ground floor commercial. Surface parking will be included behind the building and in two levels of underground parking. The anticipated timeline is for demolition to occur in the spring of 2020, a 12-month construction process, and building opening in the late spring of 2021. You can contact me with any questions.

Additionally, for the record, I want to memorialize that our development team presented this concept to the Bassett Neighborhood at its monthly meeting July 8, 2019; to the Mifflin Neighborhood at it's August 7, 2019 meeting; and to the greater area at a publicly noticed meeting on August 26, 2019.

Thank you -- Jeff

Jeffrey Lee Lee Real Estate Services LLC 608-347-5338

jlee.res@gmail.com

From: jlee.res@gmail.com

Sent: Friday, August 30, 2019 4:12 PM **To:** tkenney@visitdowntownmadison.com

Cc: 'Firchow, Kevin'; 'Verveer, Mike'; garyshmerler@gmail.com

Subject: 636 W. Washington

Tiffany – good afternoon! It has come to my attention that the property located at 636 W. Washington is located within Madison's Central Business Improvement District. The site is currently improved with a gas station. In accordance with the Pre-Application Notification provision of the City of Madison Land Use Application, I am reaching out to let you know of the property owner's intention to submit in early October, a Land Use Application, including a request for demolition of the existing gas station, for the construction of a new mixed-use building in this location. The anticipated 5 story building will include approximately 52 apartment units plus ground floor commercial space. In addition to surface parking behind the building, there will be two levels of under-building parking. The anticipated timeline is for demolition to occur in the spring of 2020, a 12-month construction process, and building opening in the late spring of 2021. You can contact me with any questions.

Thank you -- Jeff

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<district4@cityofmadison.com>

Cc: 'Firchow, Kevin' <KFirchow@cityofmadison.com>; 'Kirk Keller' <kkeller@prarch.com>; garyshmerler@gmail.com

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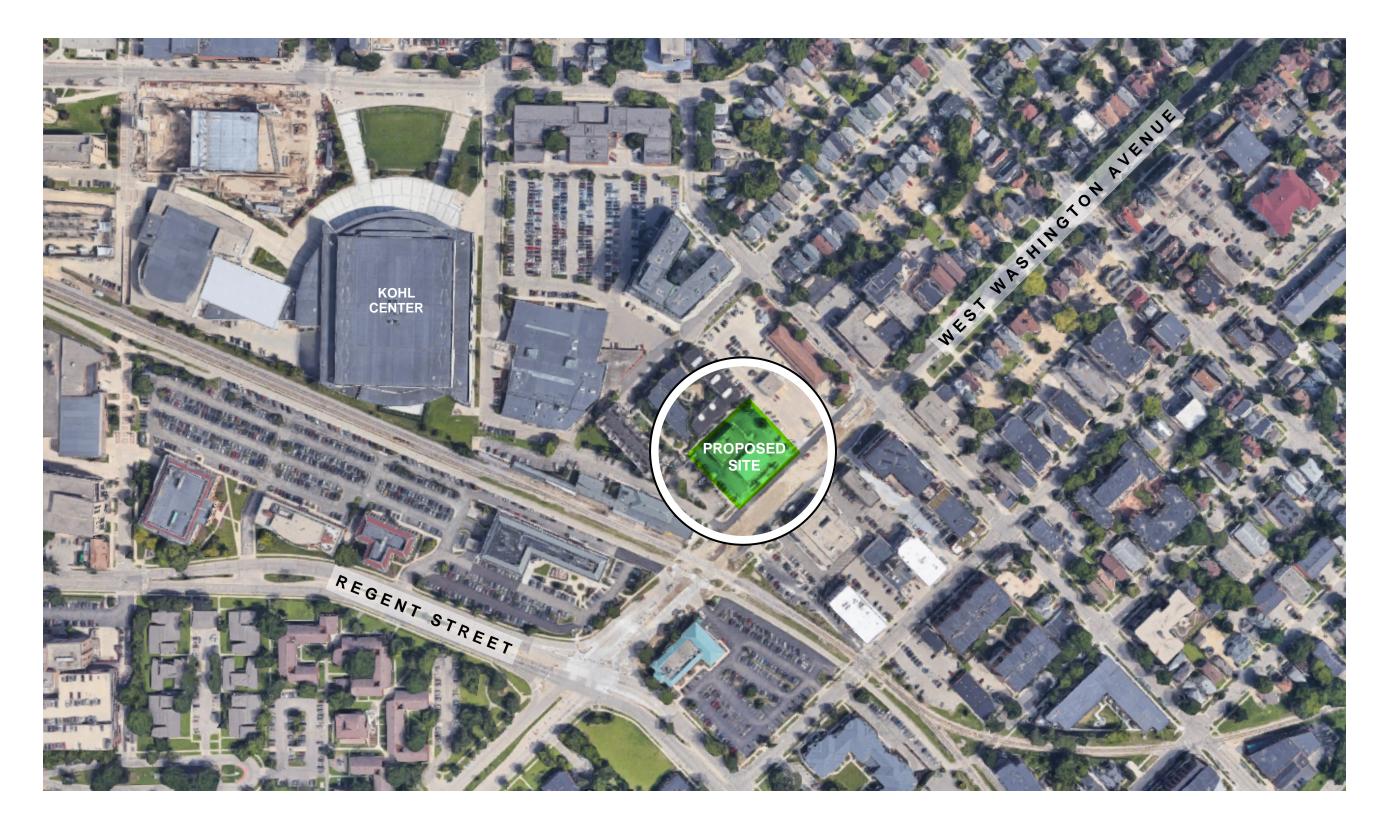
636 West Washington Ave Madison Wisconsin 53703

West Washington Place UDC Initial / Final Submittal

October 9, 2019













View of building directly adjacent and Southwest of Site.



View of Site from West Washington, looking Northeast.



View of Site from West Corner, looking Northeast.



View of Site from West Washington, looking West.



View of West Corner of Site.



View of canopy, Southern portion of site.







View of building directly across West Washington.



View of buildings across West Washington to the Northeast.



View of building directly Northeast of Site.



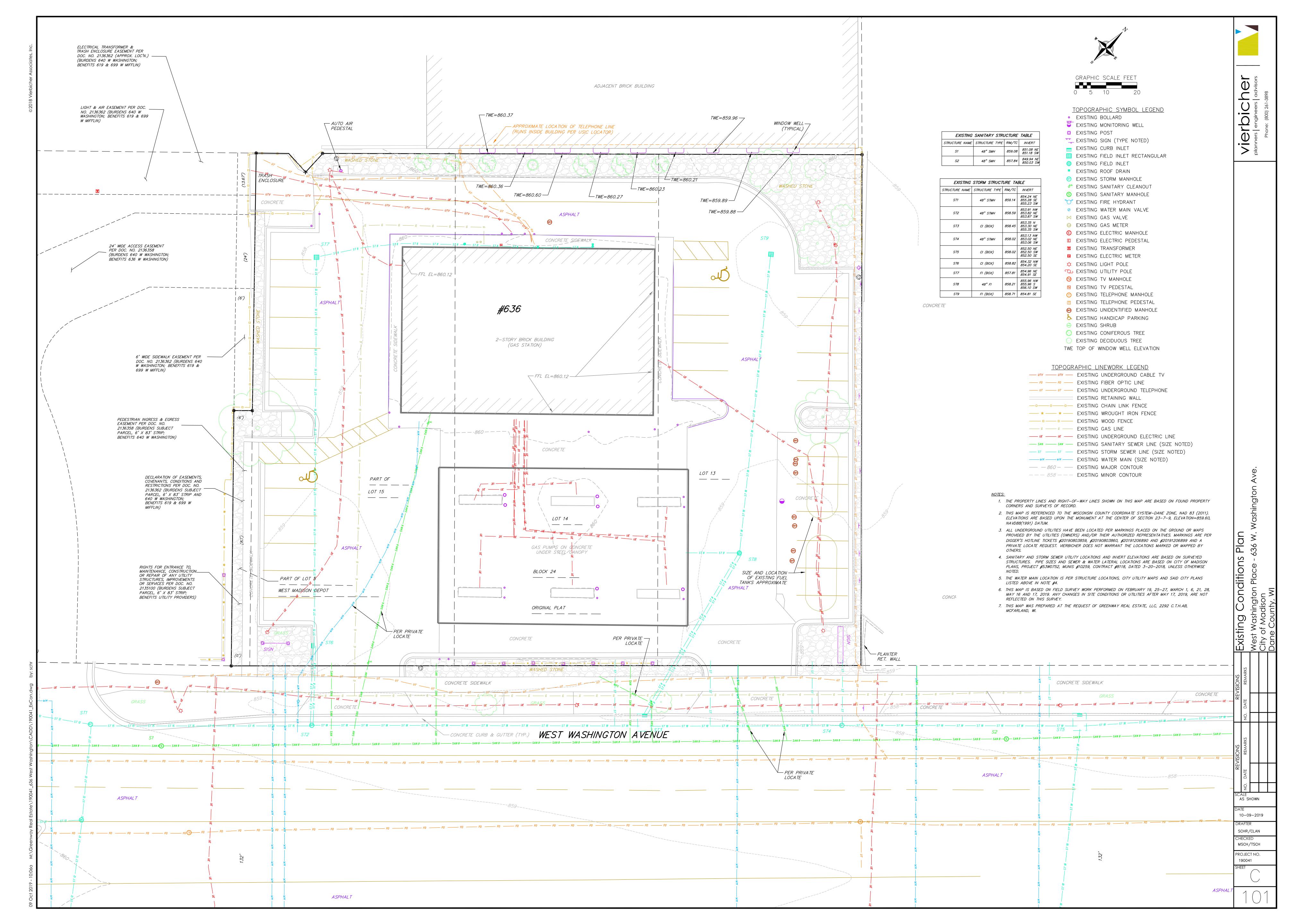
View of building at Corner of Washington and Bedford.

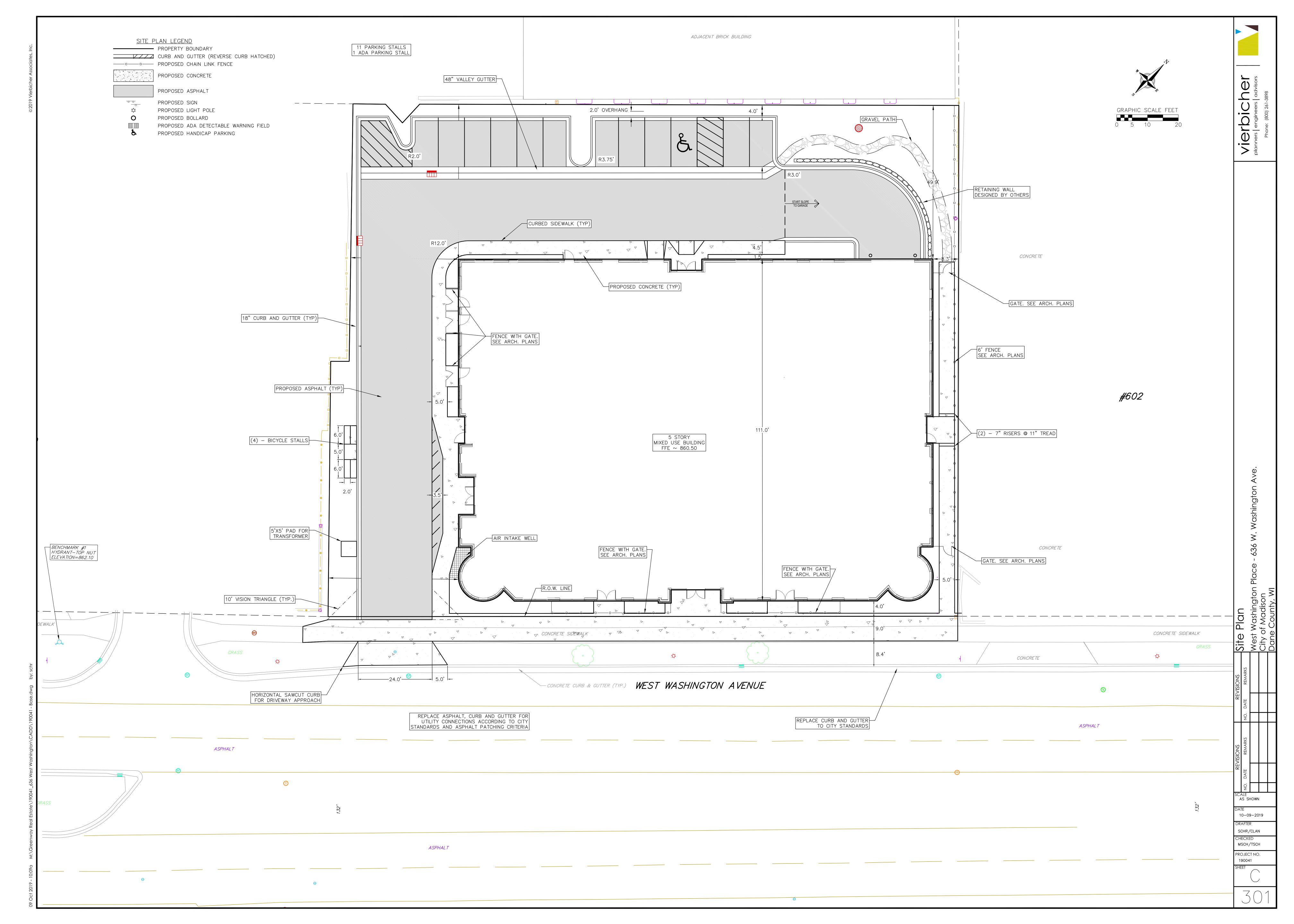


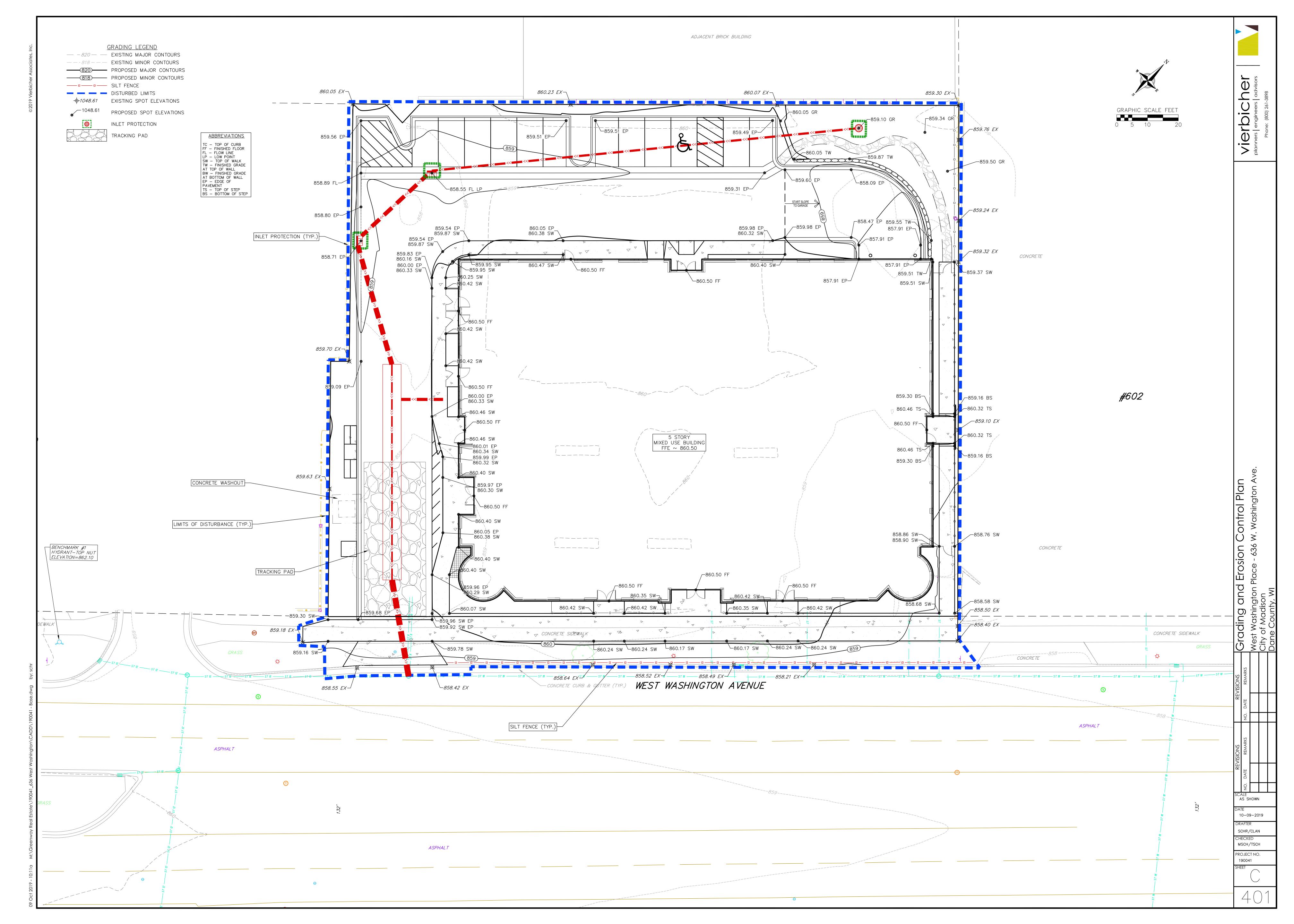
View of building directly behind site to Northeast.

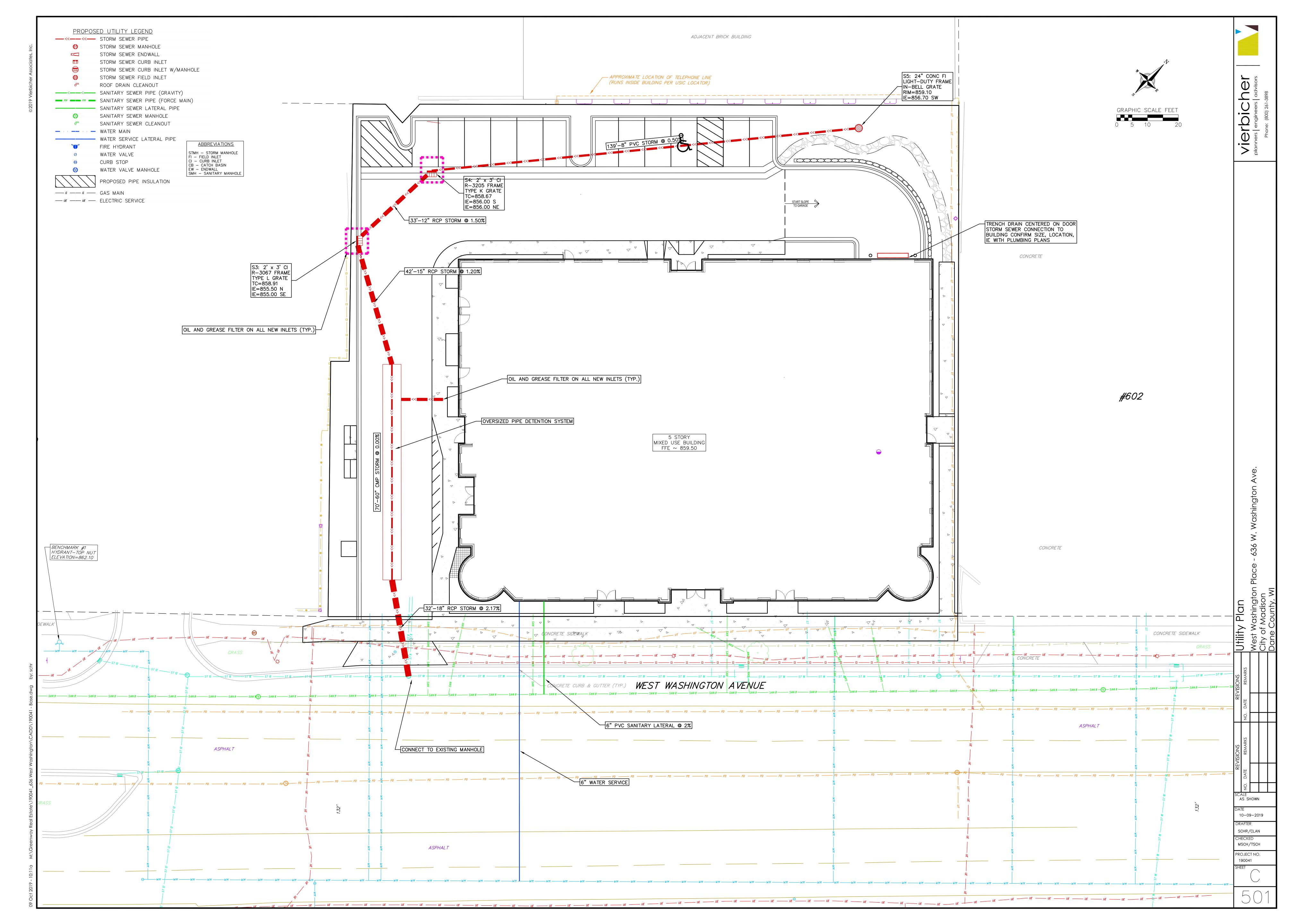


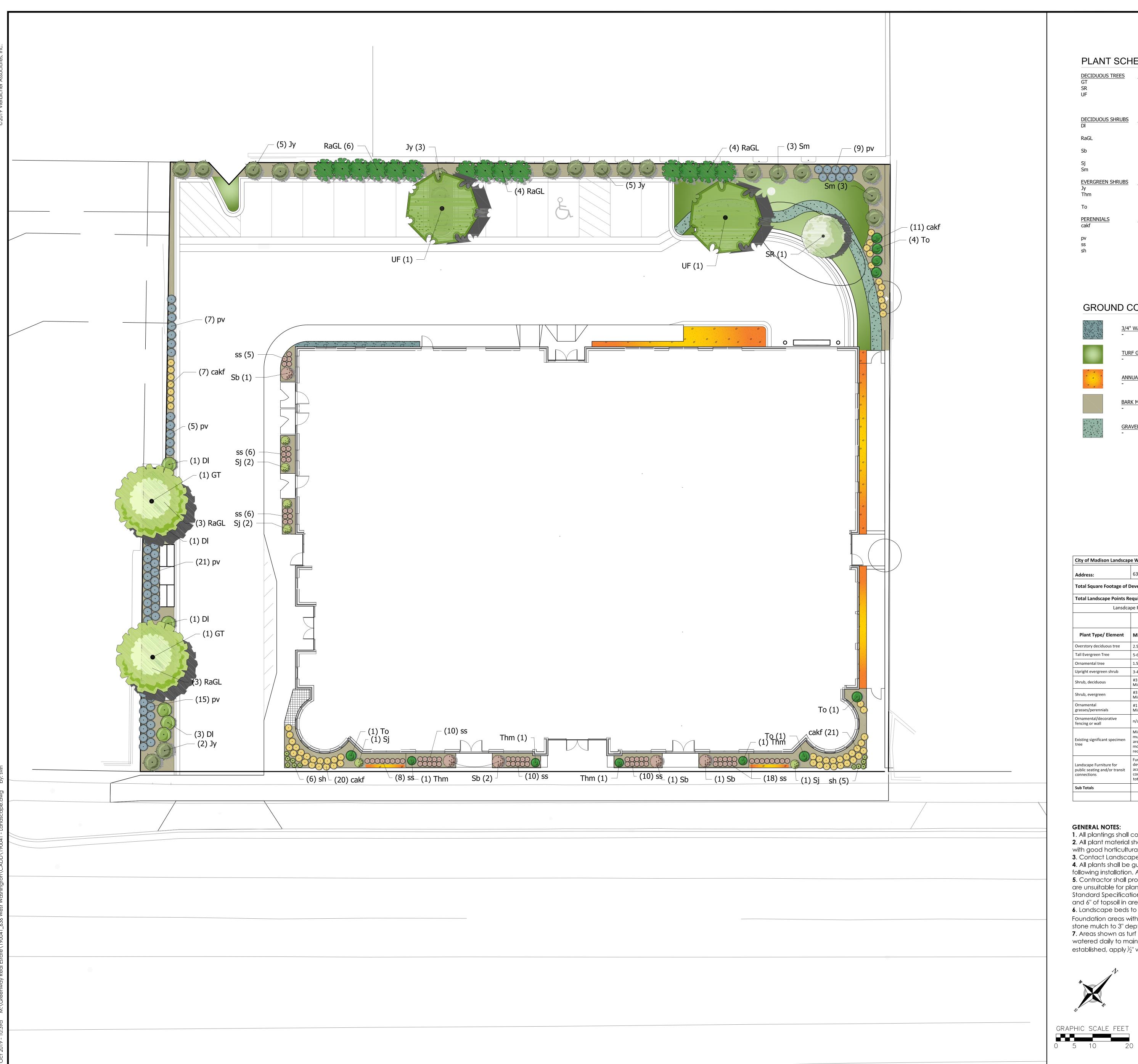
View of building and bike path directly Southwest of Site.











PLANT SCHEDULE

DECIDUOUS TREES GT SR UF	BOTANICAL / COMMON NAME Gleditsia triacanthos inermis `Shademaster` TM / Shademaster Locust Syringa reticulata `Ivory Silk` / Ivory Silk Japanese Tree Lilac Ulmus x `Frontier` / American Elm 40-50`h x 25-35`w Upright vase shaped	CONT B & B B & B B & B	<u>CAL</u> 2.5"Cal 1.5"Cal 2.5"Cal	QTY 2 1 2
DECIDUOUS SHRUBS DI	BOTANICAL / COMMON NAME Diervilla lonicera / Dwarf Bush Honeysuckle 3-4`h x 4-5`w	<u>SIZE</u> 3 gal	FIELD2	<u>QTY</u> 6
RaGL	Rhus aromatica `Gro-Low` / Gro-Low Fragrant Sumac 2-3`h x 6-8`w	3 gal		20
Sb	Spiraea betulifolia `COURISPI01` TM / Pink Sparkler Birchleaf Spiraea 3-4` x 3-4`	5 gal	Cont	5
Sj Sm	Spiraea japonica `Magic Carpet` / Magic Carpet Spirea Syringa meyeri `Palibin` / Dwarf Korean Lilac	3 gal 5 gal	Cont	6 6
EVERGREEN SHRUBS Jy Thm	BOTANICAL / COMMON NAME Juniperus horizontalis plumosa `Youngstown` / Creeping Juniper Thuja occidentalis `Hetz Midget` / Hetz Midget Arborvitae 2-3` x 2-3`	<u>SIZE</u> 5 gal 5 gal	FIELD2 Cont	<u>QTY</u> 15 4
То	Thuja occidentalis `Holmstrup` / Holmstrup Cedar	10 gal	Cont	7
PERENNIALS cakf	BOTANICAL / COMMON NAME Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass 3-5`h x 2`w	<u>SIZE</u> 1 gal	FIELD2	<u>QTY</u> 59
pv ss sh	Panicum virgatum `Heavy Metal` / Blue Switch Grass Schizachyrium scoparium / Little Bluestem Grass Sporobolus heterolepis / Prairie Dropseed	1 gal 4" pot 4" pot	Cont	57 73 11

GROUND COVER SCHEDULE

	3/4" WASHED STONE -	50 sf
•	TURF GRASS	810 sf
	ANNUALS -	348 sf
	BARK MULCH	2,506 sf
	GRAVEL PATH -	261 sf

City of Madison Landsca	<u> </u>								
Address:	636 W. Washington Ave		Date:	10.09.2019					
Total Square Footage of	Developed Area:	(Site Area)	33,291	-	(Building Fo		16796	=	16495
Total Landscape Points F	equired (<5 ac):	16,495	/ 300 =	55	x 5 =	275	275		
Lansdo	ape Points Requried >5 ac:	0	/ 100 =	0	x 1 =	-] 2	/5	
				Existing scaping	New/ Pr Landso	•			
Plant Type/ Element	Min. Size at Installation	Points	Quantity	Points Achieved	Quantity	Points Achieved			
Overstory deciduous tree	2.5" cal	35		0	4	140			
Tall Evergreen Tree	5-6 feet tall	35		0		0			
Ornamental tree	1.5" cal	15		0	1	15			
Upright evergreen shrub	3-4 feet tall	10		0	7	70			
Shrub, deciduous	#3 gallon container size, Min. 12-24"	3		0	43	129			
Shrub, evergreen	#3 gallon container size, Min. 12-24"	4		0	19	76			
Ornamental grasses/perennials	#1 gallon container size, Min. 8-18"	2		0	116	232			
Ornamental/decorative fencing or wall	n/a	4 per 10 LF		0		0			
Existing significant specimen tree	Min. Size 2.5" cal. Trees must be within developed area and cannot comprise more than 30% of total required points.	14 per caliper inch. Max. points per tree: 200		0		0			
Landscape Furniture for public seating and/or transit connections	Furniture must be within developed area, publicly accessible, and cannot comprise more than 5% of total required points	5 points per "seat"		0		0			
Sub Totals				0		662			

1. All plantings shall conform to quality requirements as per ANSI Z60.1.

2. All plant material shall be true to the species, variety and size specified, nursery grown in accordance with good horticultural practices, and under climactic conditions similar to those of the project site. 3. Contact Landscape Architect to request and plant material substitutions due to availability issues. 4. All plants shall be guaranteed to be in healthy and flourishing condition during the growing season following installation. All plant material shall be guaranteed for one year from the time of installation. 5. Contractor shall provide a suitable amended topsoil blend for all planting areas where soil conditions

are unsuitable for plant growth. Topsoil shall conform to quality requirements as per Section 625.2(1) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in all planting areas and 6" of topsoil in areas to be seeded/sodded. 6. Landscape beds to be mulched with undyed shredded hardwood bark mulch to 3" depth min.

Foundation areas without plantings to be mulched with $\frac{3}{4}$ " washed stone over weed barrier fabric. Place stone mulch to 3" depth min.

7. Areas shown as turf grass to be sodded with turf sod not grown in peat. All sodded areas are to be watered daily to maintain adequate soil moisture for proper establishment. After vigorous growth is established, apply $\frac{1}{2}$ " water twice weekly until final acceptance.



NOT FOR CONSTRUCTION

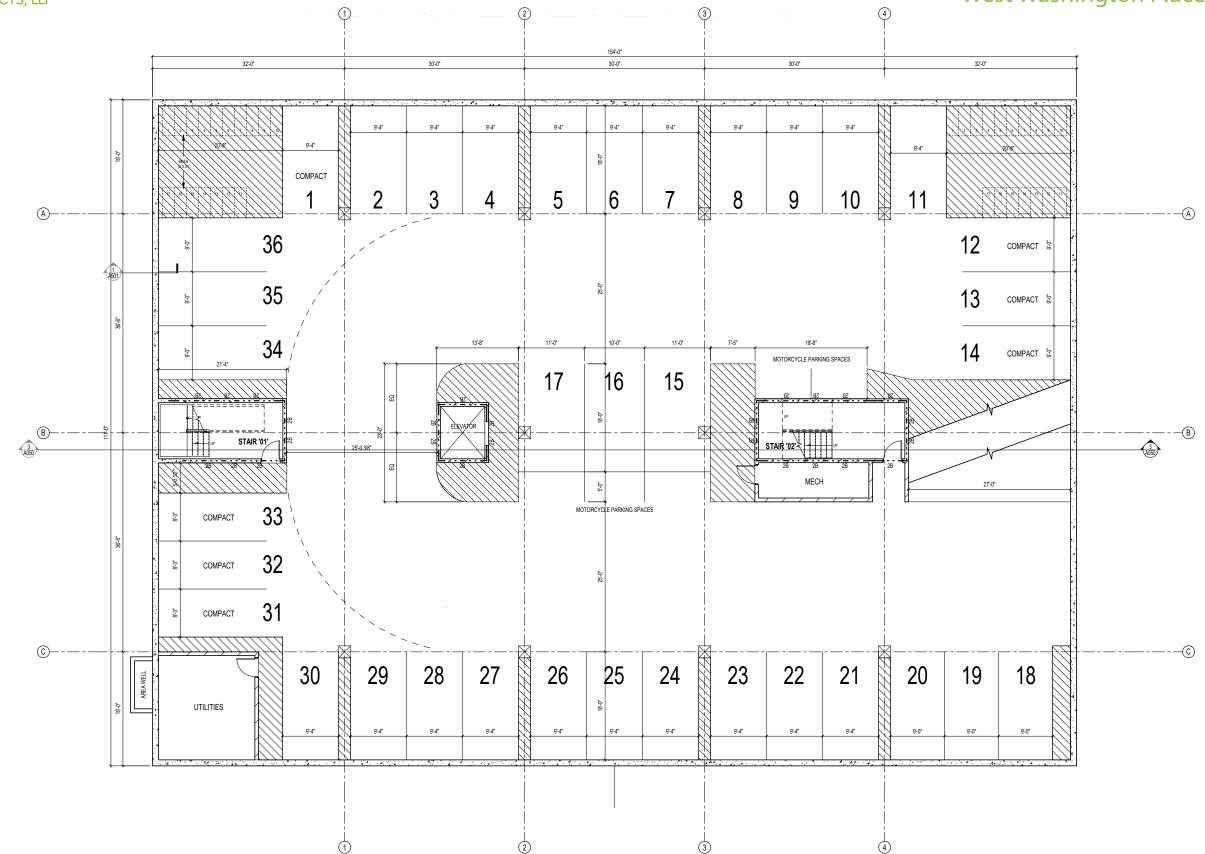
10-09-2019

MSCH/TSCH

PROJECT NO.

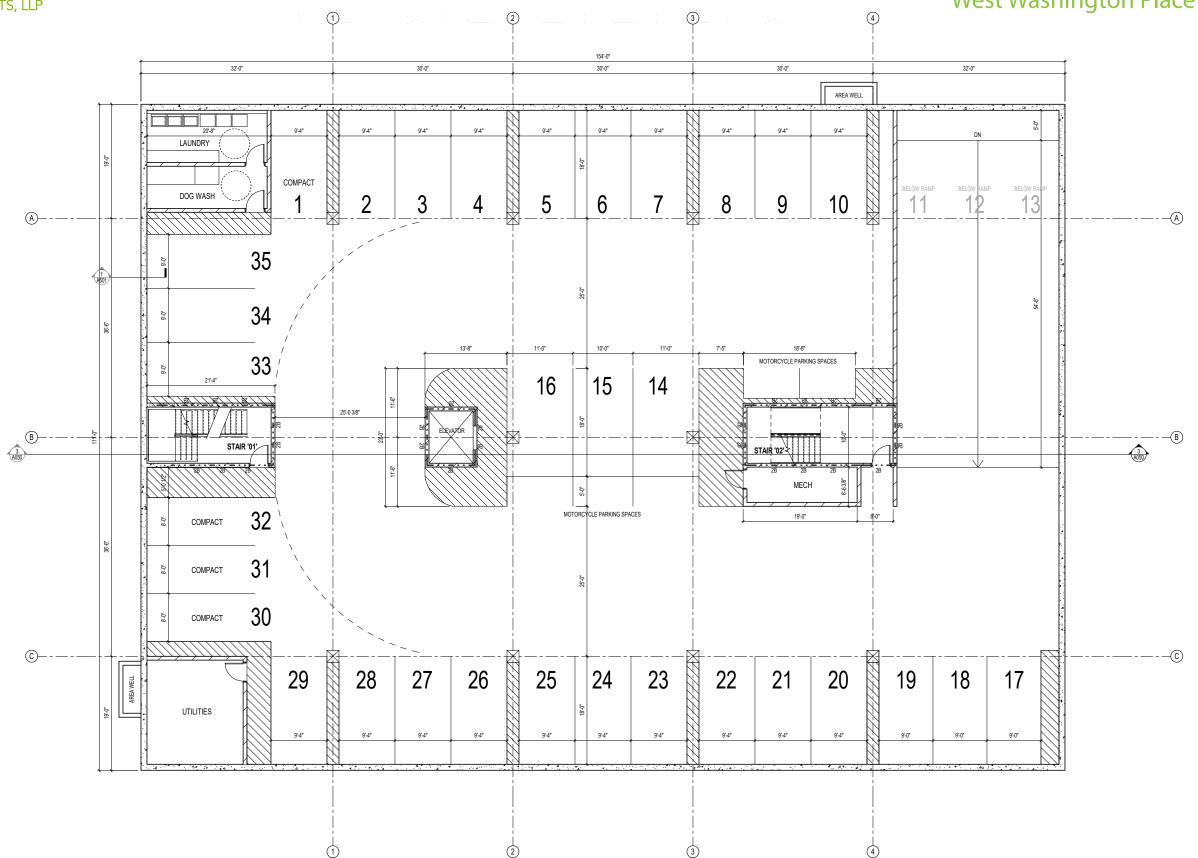




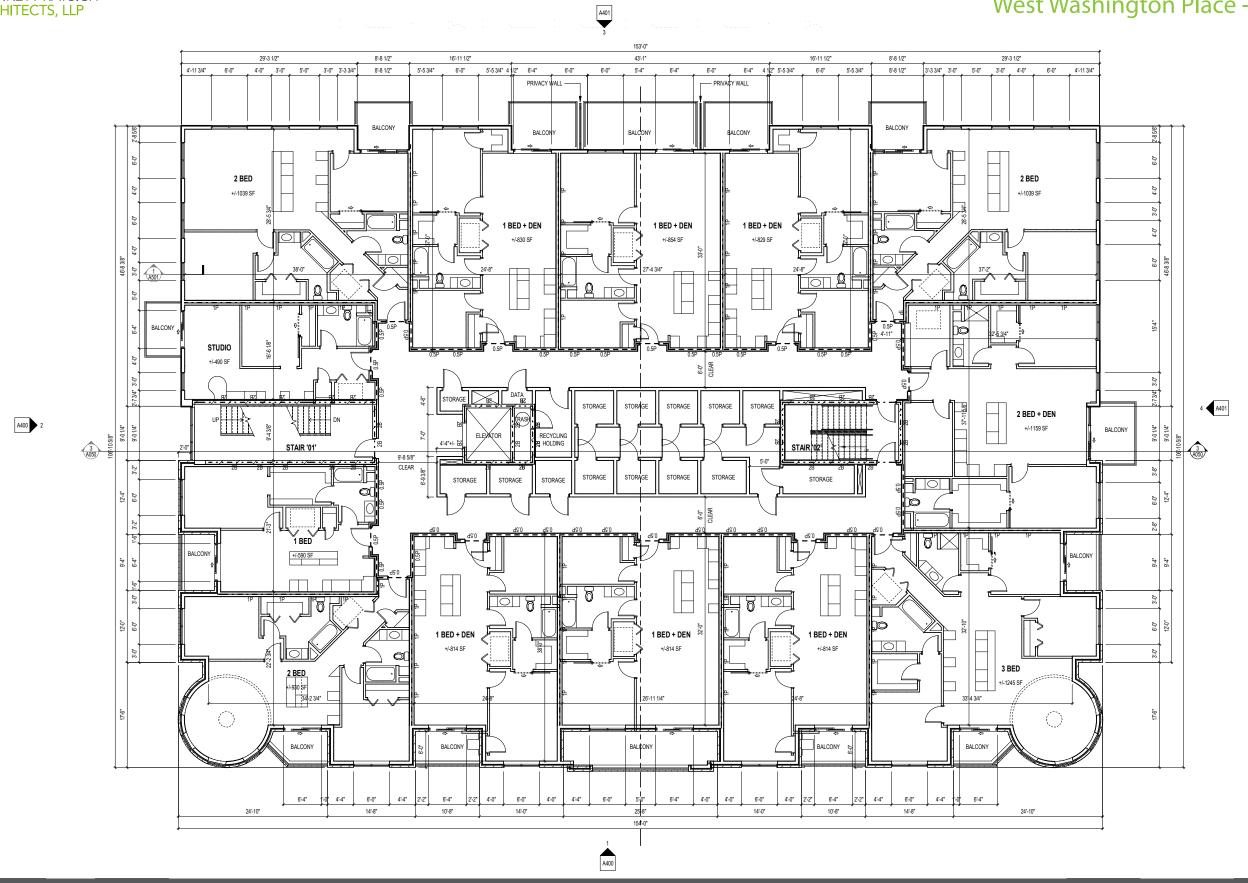




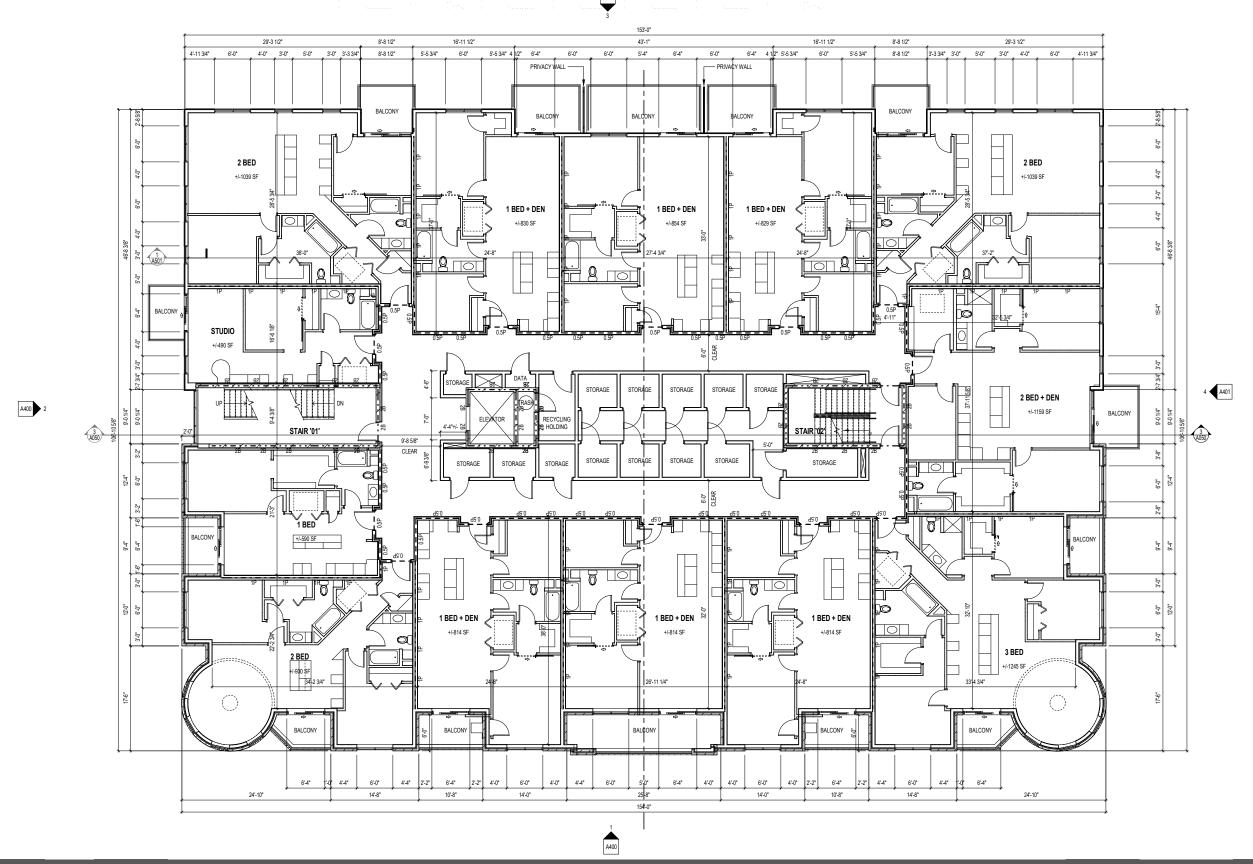




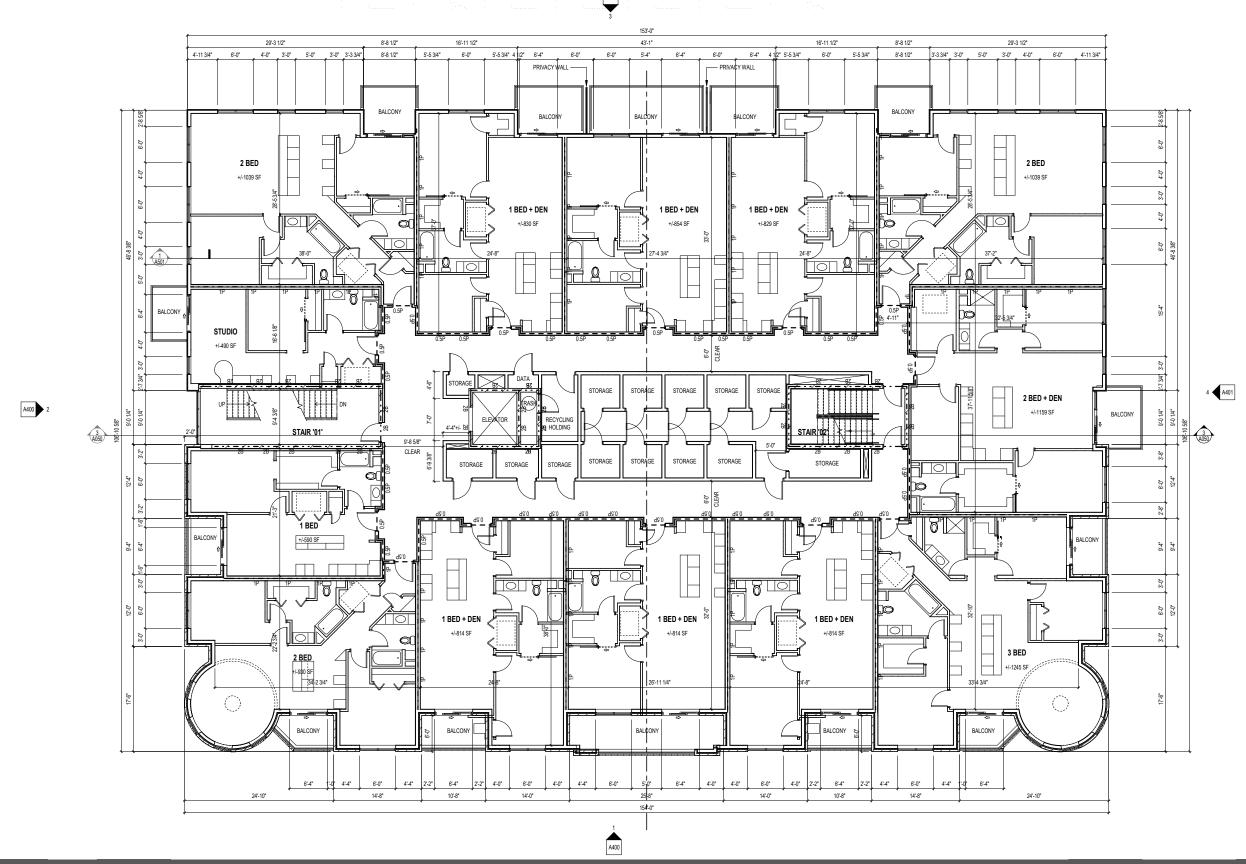




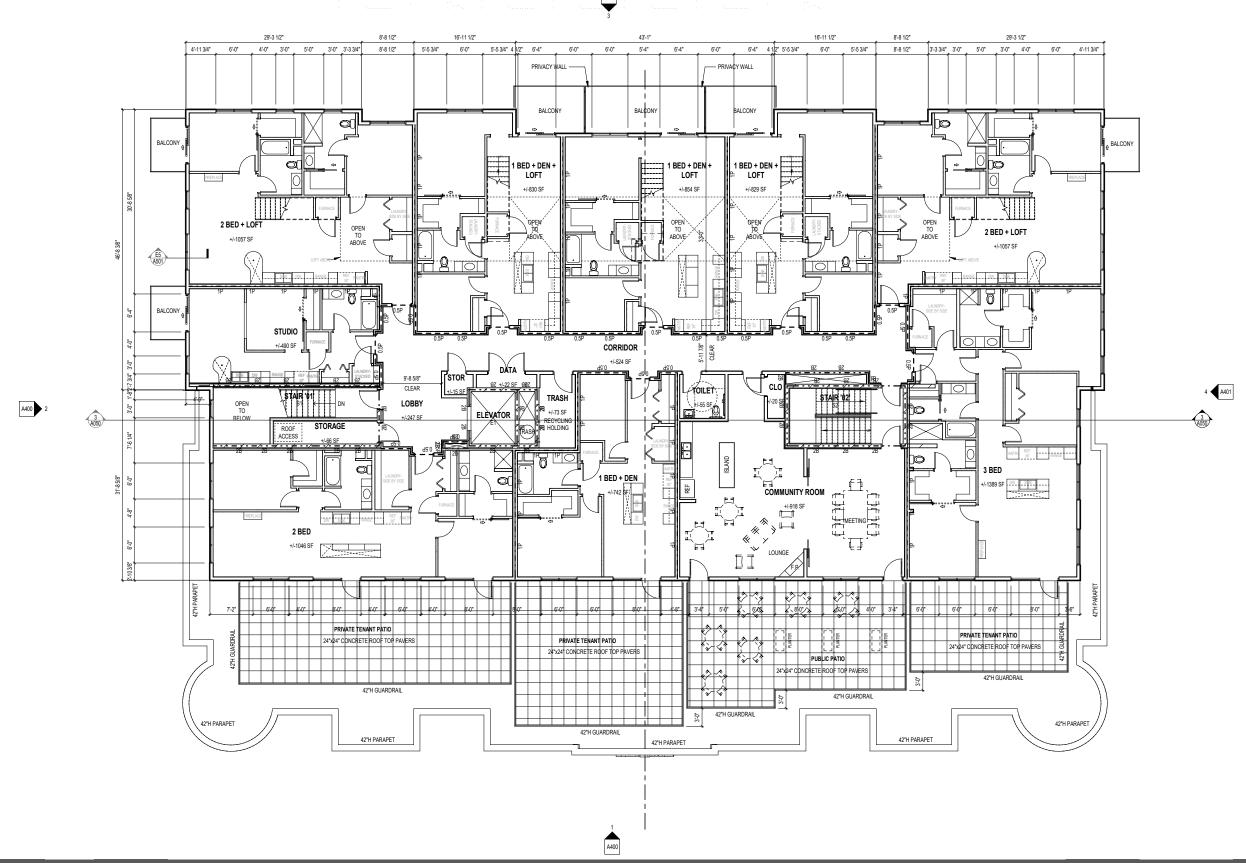






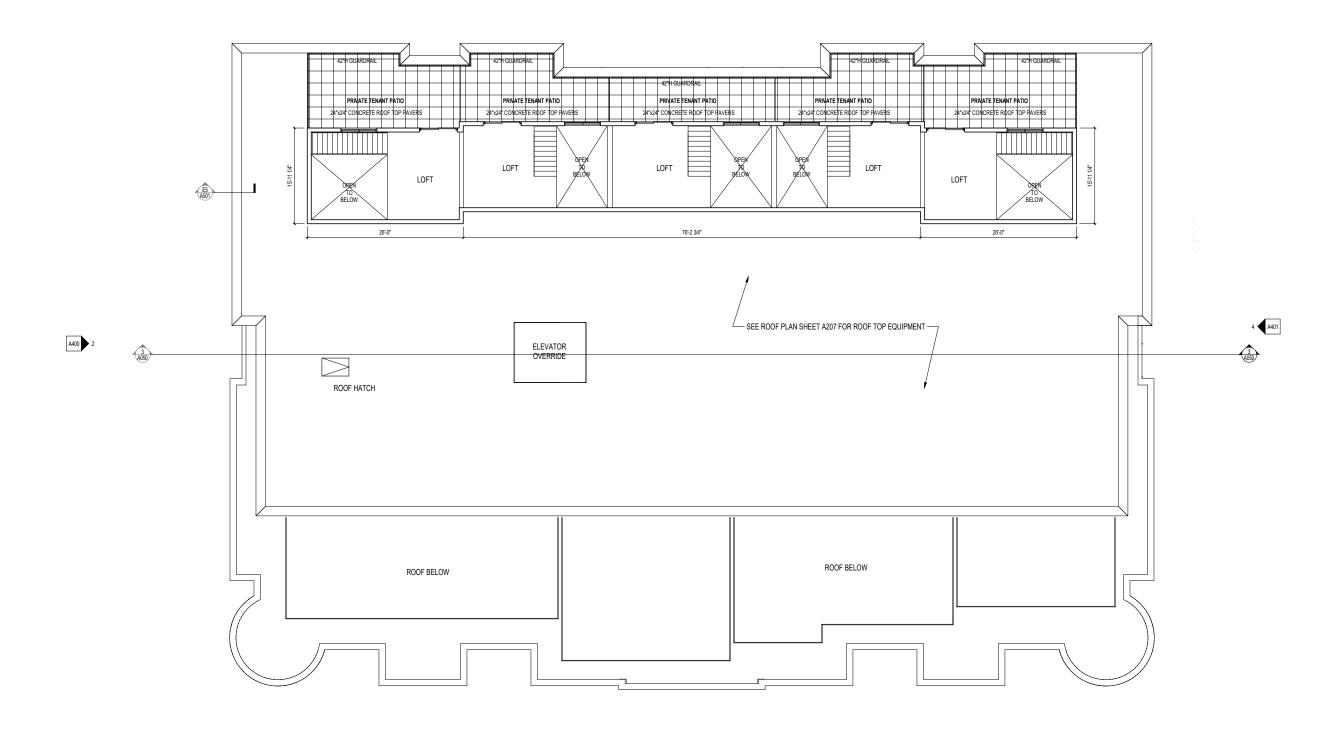








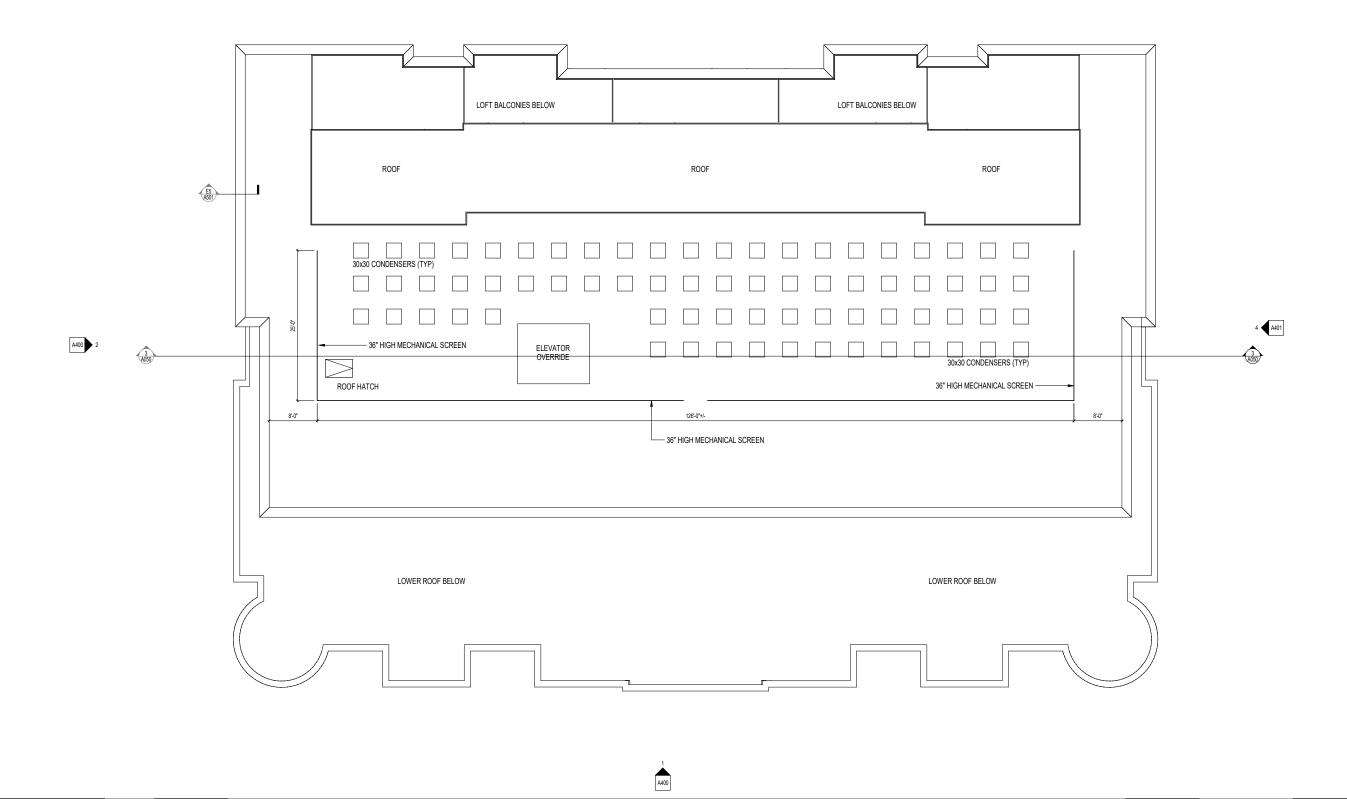


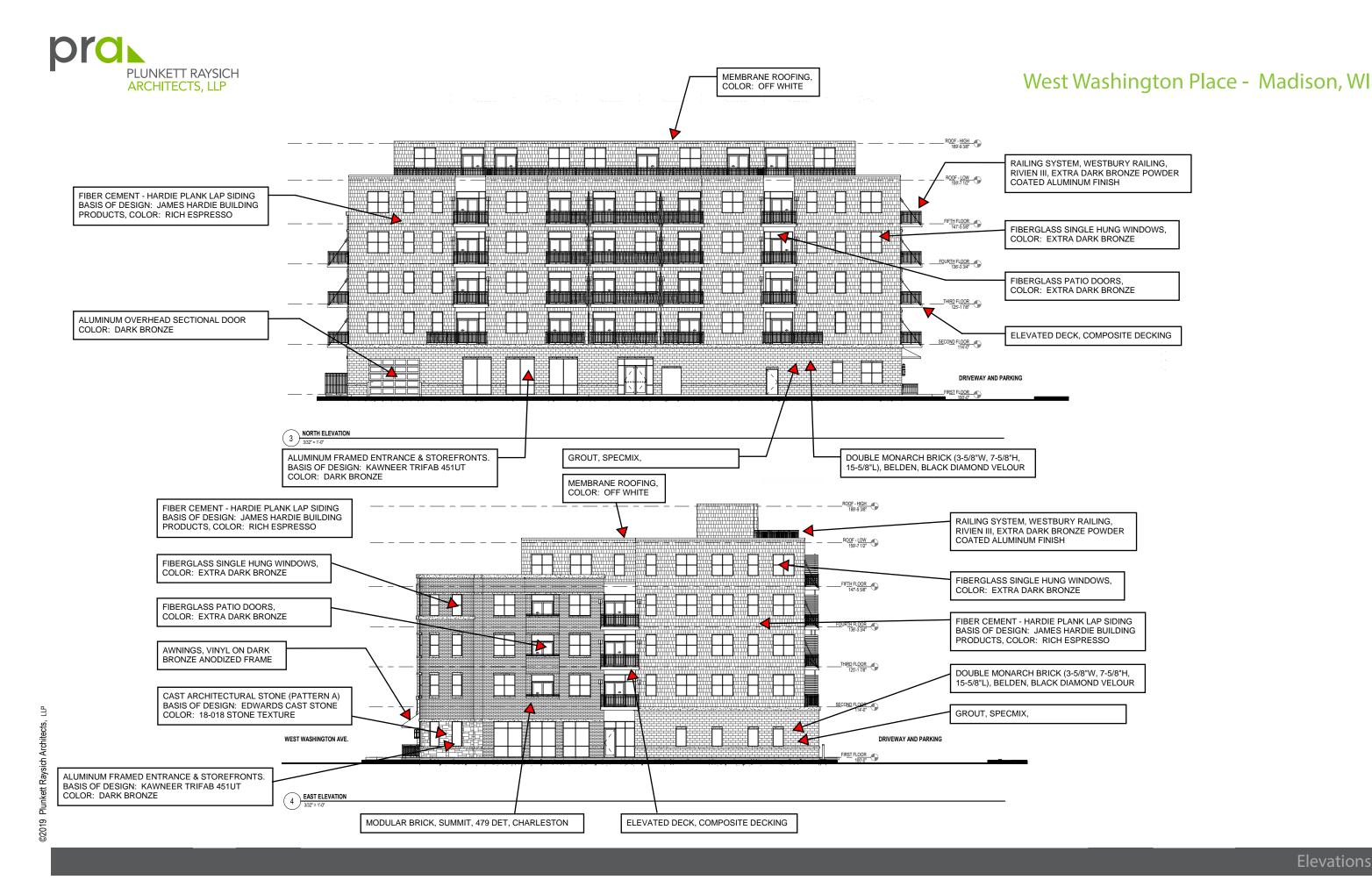


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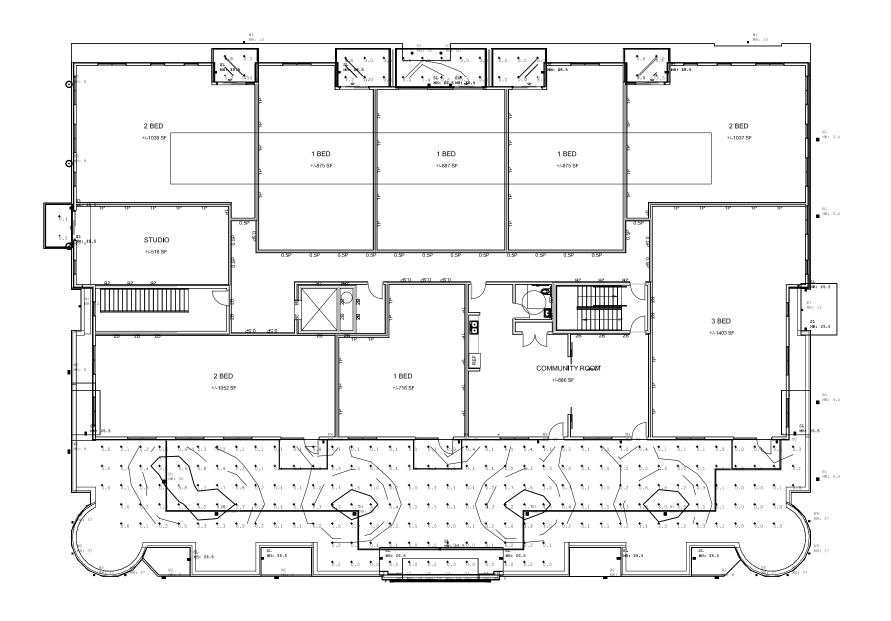




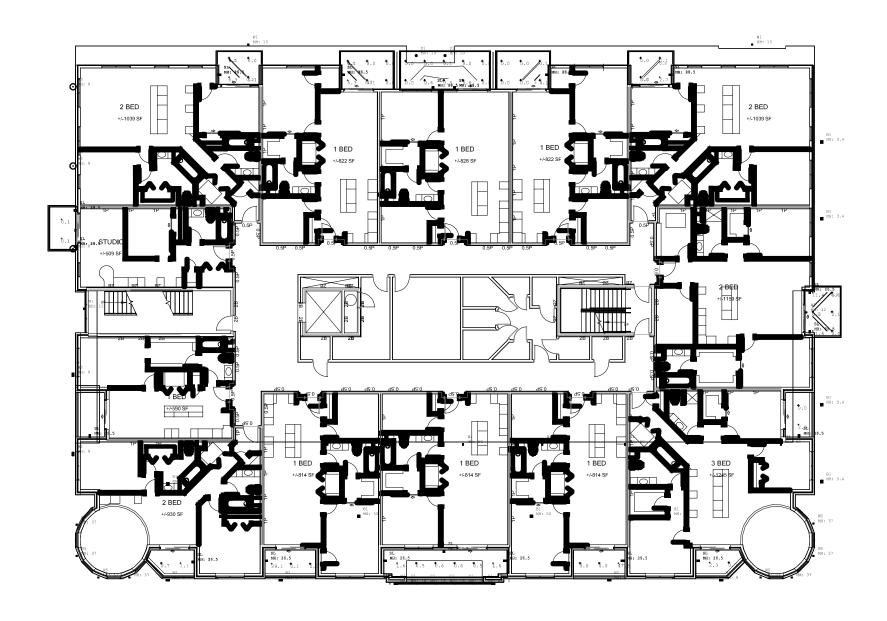




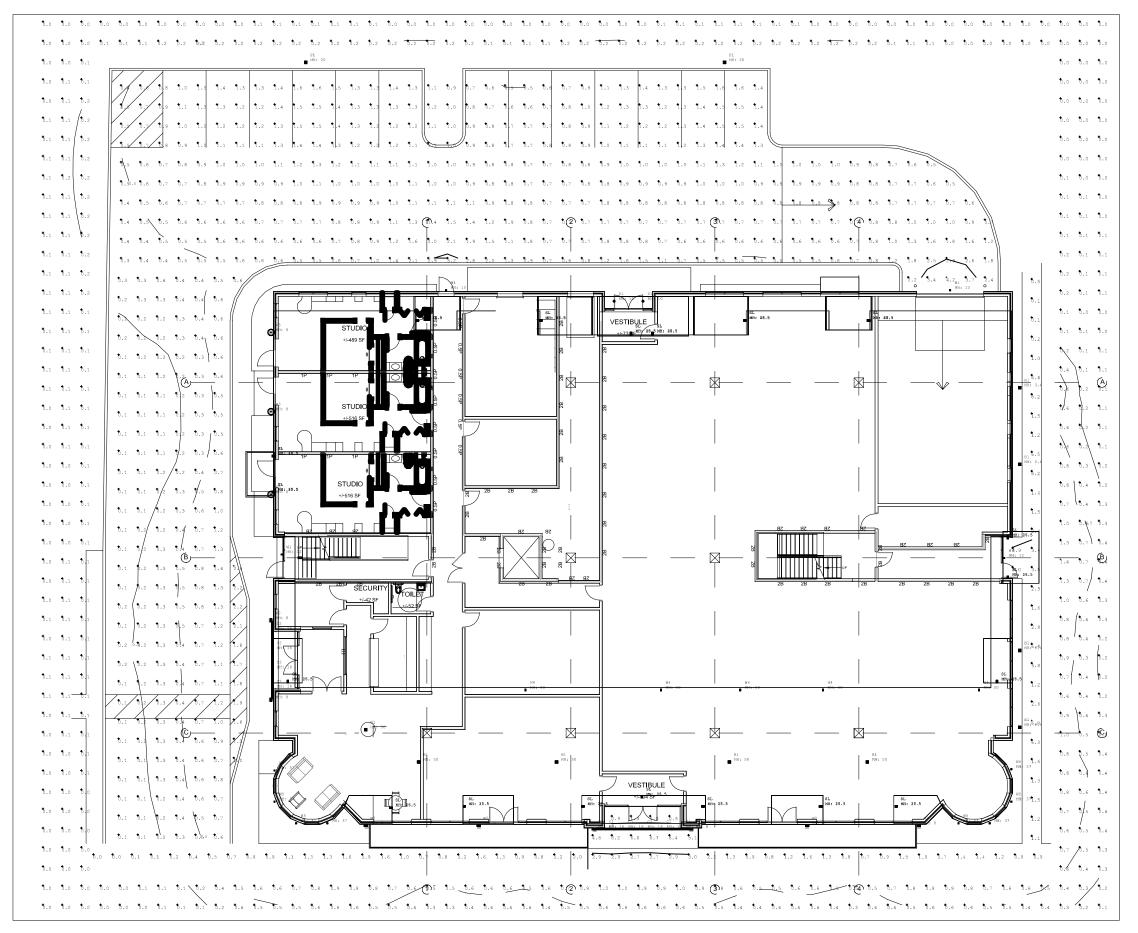




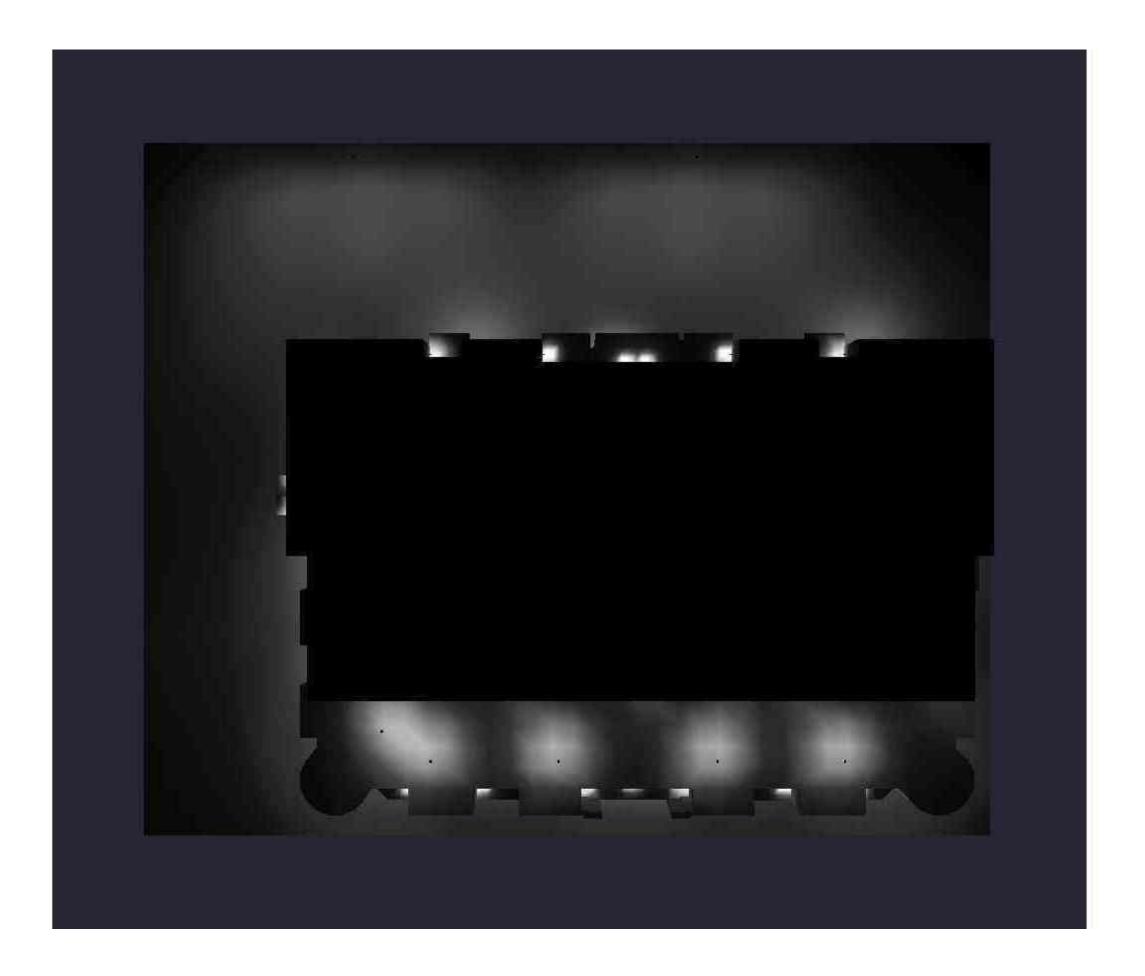
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
5th floor deck	Illuminance	FC	0.72	8.8	0.0	N.A.	N.A.
5th floor deck_1	Illuminance	FC	0.15	0.2	0.1	1.50	2.00
5th floor deck_2	Illuminance	Fc	1.30	5.2	0.0	N.A.	N.A.
5th floor deck_3	Illuminance	Fc	0.82	8.4	0.0	N.A.	N.A.
5th floor deck_4	Illuminance	Fc	0.88	3.5	0.0	N.A.	N.A.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Balconies	Illuminance	Fc	1.63	6.3	0.0	N.A.	N.A.
Balconies 1	Illuminance	Fc	0.52	5.3	0.0	N.A.	N.A.
Balconies 2	Illuminance	Fc	0.70	2.7	0.0	N.A.	N.A.
Balconies_3	Illuminance	Fc	3.85	11.4	0.0	N.A.	N.A.
Balconies_4	Illuminance	Fc	1.40	2.8	0.0	N.A.	N.A.
Balconies 5	Illuminance	Fc	1.50	2.3	0.7	2.14	3.29
Balconies 6	Illuminance	Fc	0.90	1.1	0.7	1.29	1.57
Balconies 7	Illuminance	Fc	9.73	29.1	0.0	N.A.	N.A.
Balconies 8	Illuminance	Fc	0.90	1.6	0.5	1.80	3.20
Balconies 9	Illuminance	Fc.	15.87	47.6	0.0	N.A.	N.A.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
East Sidewalk	Illuminance	Fc	2.96	6.8	0.1	29.60	68.00
Entry Drive	Illuminance	FC	0.46	2.4	0.1	4.60	24.00
Parking Area	Illuminance	FC	1.00	4.2	0.3	3.33	14.00
Property Line	Illuminance	Fc	0.24	1.4	0.0	N.A.	N.A.
South Sidewalk	Illuminance	Fc	1.72	6.7	0.0	N.A.	N.A.



LIGHTING
FCB6C-36N02







Date:	Approved:
Туре:	
Fixture:	
Project:	

FCB6C-36N02 Exterior die-cast aluminum, 6" nominal diameter bollard with a 360°, 1" high window.

SPECIFICATIONS

PHYSICAL	
dimensions [HxØ]	fixture: 39.55" H x 6.299" Ø
weight	18 lbs
housing	marine grade, corrosion resistant, heavy gauge extruded aluminum
lens	impact resistant, UV stabilized, opal, polycarbonate diffuser
mounting	heavy gauge base bracketing for bollard installation provides a unique mounting solution, so the tower body anchors flush to the ground without the appearance of a base plate, anchor bolts inlcuded (j-box by others)
ingress protection	IP66: dry, damp, or wet locations with extruded silicone gasket to seal out contaminants
finish	six stage chemical iron phosphate substrate pre-treatment process for a UV stable, super durable standard polyester powder coat

PERFORMANCE					
color temperature	2700K	3000K	3500K	4000K	
lumen output	447	471	495	522	
lifetime	> 70,000 hours / L70 o	> 70,000 hours / L70 or better			
color consistency	3-Step MacAdam Ellipse / standard: CRI ≥ 85				
temperature	operating: -13°F to 104°F (-25°C to 40°C) start up: -13°F to 104°F (-25°C to 40°C) storage: -40°F to 176°F (-40°C to 80°C)				
junction temperature	73°C @ T ^A 25°C				
warranty	5 year limited warranty (refer to website for details)				

ELECTRICAL	
input voltage	Universal 120-277VAC optional: 347 VAC (integral) 480 VAC (integral)
power supply	Integral Class II, electronic, high power factor > 94% @120V
certification	ETL/cETL Listed
standards	UL1598/CSA C22.2 No. 250.0; UI 8750/CSA C22.2 No. 250.13/IES LM-79/LM-80
power consumption	22W @ 120V - 277V (maximum)
dimming interface	standard: 0-10V (10%) optional: ELV (120V only)/DMX (integral)/DALI (integral)

Expanded Disclaimer: Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions. FCB Series and FCBT Series fixtures are engineered and produced in our Illinois manufacturing facility.



FCB6C-36N02



Ordering Information

ORDERING INFO	ORMATIC	ON							
FCB6C-36N02									
SERIES	VOLTAG	E	HEIGHT	SOURCE/TEMPERATURE	LED LUMENS	FINIS	SH	ACCESS	SORIES
FCB6C-36N02	UNV	UNV 120V-277V	39 39.5"	LED 27K	522 Lumens (22W)	BK	Black	LD	LED Dimming (0-10V) standard
	347V*	347V* AC (integral)		3K		BZ	Bronze	ELV*	ELV Dimming (120 only)
	480V*	480V* AC (integral)		35K		SL	Silver	DMX*	DMX Dimming* (integral)
				4K		WH	White	DALI*	DALI Dimming* (integral)
						CC	Custom Color	PE	Photo Eye
								SP20	20kv Surge Protection
								BBU	Battery Backup, Integral
								* consul	t factory for lead time

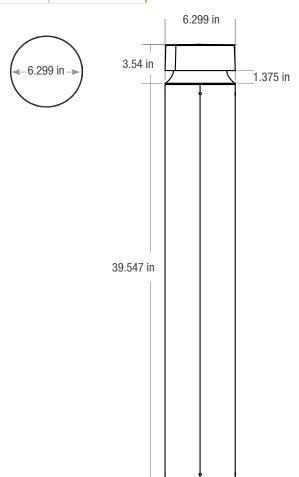


Physical



PRODUCT DIMENSIONS - STANDARD PRODUCT

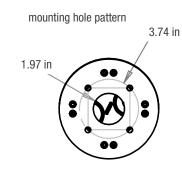
height	39.547" H
diameter	6.299" Ø



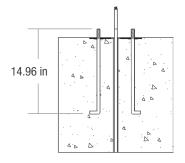
MOUNTING - *j-box sold by others*

mounting plate diameter

6.299" Ø



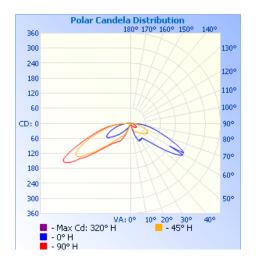
concrete minimum depth 12"; 14.96" anchor bolts are above cement, see installation instructions for detailed information



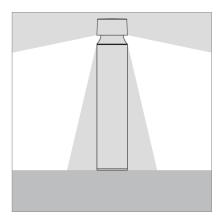




OPTICAL DISTRIBUTION

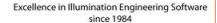














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Photometric Report (Type C)

Filename: B1 FCB6C-36N02-3K-522 Lumens.IES

[TEST] 3495

[MANUFAC] FC Lighting

[LUMCAT] FCB6C-36N02-3K-522 Lumens

Maximum Candela = 352.69 at 50 H 60 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.01

Luminaire Efficacy Rating (LER): 24

Indoor Classification: Direct

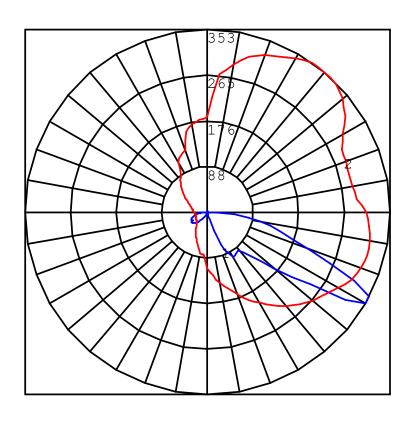
BUG Rating : B0-U1-G1

Polar Candela Curves:

Vertical Plane Through:
1) 50 - 230 Horizontal

Horizontal Cone Through:

2) 60 Vertical









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Photometric Report (Type C)

Filename: B1 FCB6C-36N02-3K-522 Lumens.IES

[TEST] 3495

[MANUFAC] FC Lighting

[LUMCAT] FCB6C-36N02-3K-522 Lumens

Maximum Candela = 352.69 at 50 H 60 V

Classification:

Road Classification: Type IV, Short, N.A. (deprecated)

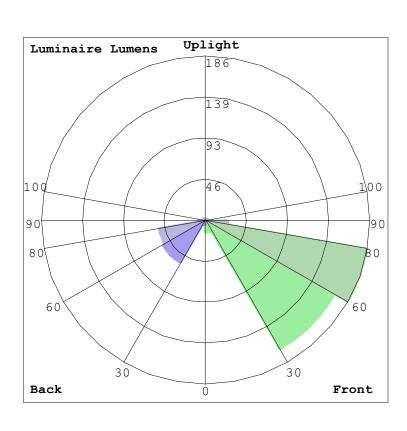
Upward Waste Light Ratio: 0.01 Luminaire Efficacy Rating (LER): 24

Indoor Classification: Direct

BUG Rating : B0-U1-G1

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	13.9	N.A.	2.7
FM (30-60)	168.7	N.A.	32.4
FH (60-80)	185.9	N.A.	35.7
FVH (80-90)	25.4	N.A.	4.9
BL (0-30)	5.3	N.A.	1.0
BM (30-60)	55.9	N.A.	10.7
BH (60-80)	53.5	N.A.	10.3
BVH (80-90)	8.7	N.A.	1.7
UL (90-100)	1.1	N.A.	0.2
UH (100-180)	1.8	N.A.	0.4
Total	520.2	N.A.	100.0
BUG Rating	B0-U1-G1		







Date:	Approved:
Туре:	
Fixture:	
Project:	

The **ECVLWET** is similar in use to the other Wet Cove series but with a lower lumen output for a lower placement above the ground, approximately 10-15 feet high. ECVLWET comes in 1 ft, 4 ft or 6 ft nominal lengths and 2700K, 3000K, 3500K, 4000K or 5000K color temperatures. The housing is constructed of extruded aluminum with tooled end caps and is IP66 rated for interior & exterior use. Features IP68 line voltage Plug N' Play connectors for easy installation. Power supply is integral, no remote driver required. Universal orientation fixture; up, down, horizontal or vertical positioning with 9 optic choices. Flicker free dimmable to 5% full brightness with ELV trailing edge dimming.

SPECIFICATIONS

PHYSICAL			
beam spread (a), (axb)	B 30° x 80° 120°		
LEDs per foot	14		
lengths/dimensions [LxDxH]	12.25" x 1.77" x 1.9" 47" x 1.77" x 1.9" 70.25" x 1.77" x 1.9"		
weight	1.3 lbs		
housing	xtruded aluminum housing with moulded end caps		
lens	clear, tempered glass with a frosted edge		
mounting	ADBW2 surface mount with standard adjustable bracket (+/- 45°), ADBW2-90 optional adj. bracket (+/- 90°)		
ingress protection	IP66 rated for wet, exterior location (Connectors IP68)		
vibration resistance	compliant with 3G ANSI C136.31		
fixture connections	Twist-lock IP68 rated, CCC		

PERFORMANCE							
color temperature*	2700K	2700K 3000K 3500K 4000K 5000K					
lumen output (per foot)	276 lm	276 lm 288 lm 295 lm 313 lm 326 lm					
lifetime	> 70,000 hours / L70 d	> 70,000 hours / L70 or better					
color consistency	Step 3 McAdams Ellips	Step 3 McAdams Ellipse / CRI ≥ 80; 90 CRI optional					
temperature	operating: -13°F to 104	operating: -13°F to 104°F (-25°C to 40°C) start up: -13°F to 104°F (-25°C to 40°C) storage: -40°F to 176°F (-40°C to 80°C)					
junction temperature	69°C @ T ^A 25°C						
warranty	5 year limited warranty	(refer to website for det	ails)				

ELECTRICAL	
input voltage	Universal 120–277V AC
power supply	integral Class II, electronic high-power factor > 94% @120V
certification	ETL / cETL listed, CEC Title 24 - JA8 Compliant
standards	UL1598/CSA C22.2 No. 250.0; IESLM-79/LM-80; FCC Part 15
power consumption	3.5W/ft @ 120V
dimming interface	ELV (reverse phase/trailing edge) ≤ 5%

^{*} consult factory for additional CCT LED's

Expanded Disclaimer: Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to Solid State Luminaires terms and conditions. FCF1100 Series Flood Lights are engineered and produced in our Illinois manufacturing facility.



Specification Sheet







ECVLWET-1.	5								
odel	length	CCT			CRI	optics		options	3
CVLWET1.5 eCOVEL	INE WET 1 12 in. [305 mm]	WHITE LIGH	MON	IO COLOR	80CRI 80 CRI	3080	30°x80° beam	WCL	Black Louvre
	4 46.8 in. [1189 mm]	27K 2700K	RED	Red	CR80 Standard	120	120°x120° beam	WCHS	Black Louvre w/House Shie
	6 70 in. [1778 mm]	3K 3000K	GRN	Green	90CRI 90 CRI				
		35K 3500K	BLU	Blue					
		4K 4000K	AMB	Amber					
		5K 5000K	PINK VIOL	Pink Violet					
			LTBLU	Light Blue					
			SPGRN	Spring Green					
				opining dicent					
			YELLW	Yellow					
			YELLW GLDYW	Yellow Golden Yellow					
	cate the quantity needed for each item.) Starter Connection Cord	REQUIRED: Starte EC12W 12 in.	GLDYW Cable (SC10W	Golden Yellow 2) and Terminat			Maximum Run Ler		
	Starter Connection Cord		GLDYW Cable (SC10W:	Golden Yellow 2) and Terminat	10VELVDIM 0-10	OV ELV (Inte	rior Rated Only) Dim	Module (1	
SC10W 10 ft.	Starter Connection Cord	EC12W 12 in.	GLDYW Cable (SC10W: Extension Cord	Golden Yellow 2) and Terminat 1	10VELVDIM 0-10	OV ELV (Inte	rior Rated Only) Dim	Module (1	module per run)
SC10W 10 ft.	Starter Connection Cord	EC12W 12 in.	GLDYW Cable (SC10W: Extension Cord	Golden Yellow 2) and Terminat 1	10VELVDIM 0-10	OV ELV (Inte	rior Rated Only) Dim	Module (1	module per run)
SC10W 10 ft. TCAPW Termi	Starter Connection Cordinator Cap	EC12W 12 in.	GLDYW Cable (SC10W: Extension Cord	Golden Yellow 2) and Terminat 1	10VELVDIM 0-10	OV ELV (Inte	rior Rated Only) Dim	Module (1	module per run)
SC10W 10 ft. TCAPW Termi	Starter Connection Cordinator Cap	EC12W 12 in. EC24W 24 in. EC60W 60 in.	GLDYW Cable (SC10W: Extension Cord Extension Cord Extension Cord	Golden Yellow 2) and Terminat 1 1	10VELVDIM 0-10 MC-10VELDIM 0-	OV ELV (Inte	rior Rated Only) Dim	Module (1	module per run)
SC10W 10 ft. TCAPW Termi DBW2 Included lounting Access	Starter Connection Cordinator Cap	EC12W 12 in. EC24W 24 in. EC60W 60 in.	GLDYW Cable (SC10W: Extension Cord Extension Cord Extension Cord	Golden Yellow 2) and Terminat 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10VELVDIM 0-10 MC-10VELDIM 0-	DV ELV <i>(Inte</i> :	rior Rated Only) Dim m Module w/Interio	Module (1	module per run) nclosure (1 module per run)
SC10W 10 ft. TCAPW Termi DBW2 Included lounting Access ADBW2 Adjus	Starter Connection Cordinator Cap With Fixture Sories (requirements vary for ea	EC12W 12 in EC24W 24 in EC60W 60 in. ch fixture ordereCA2/6 (GLDYW Cable (SC10W: Extension Cord Extension Cord Extension Cord	Golden Yellow 2) and Terminat 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10VELVDIM	DV ELV (Inter- -10V ELV Di	rior Rated Only) Dim m Module w/Interio	Module (1	module per run)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserve the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting and Solid State Luminaires terms and conditions.



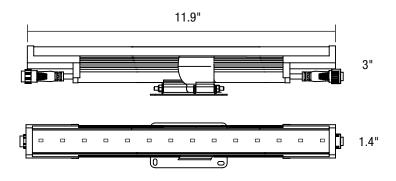
Specification Sheet

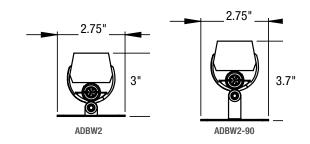
eCOVELINE WET 1.5

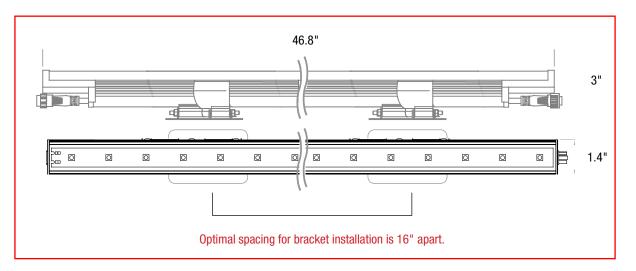
Standard Dimensions

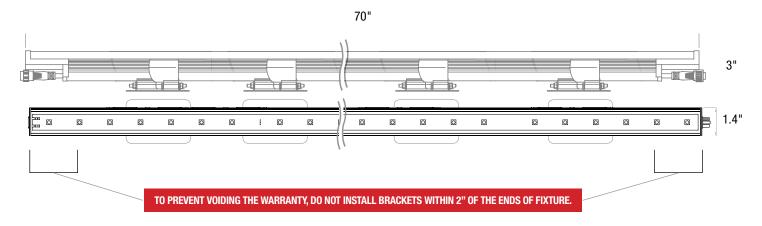
DIMENSIONS WITH STANDARD BRACKET

305 mm [12 in] / 1189 mm [46.8 in] / 1778 mm [70 in]



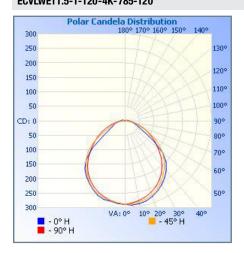






Photometry

ECVLWET1.5-1-120-4K-785-120°



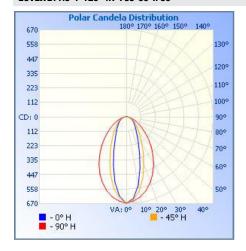
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	224.8	28.6%
0-40	367.4	46.8%
0-60	626.8	79.8%
60-90	135.7	17.3%
70-100	75.3	9.6%
90-120	22.4	2.9%
0-90	762.6	97.1%
90-180	22.4	2.9%
0-180	785.0	100%
Efficiency 7	Total 99%	

Illuminance at a Distance



ECVLWET1.5-1-120-4K-785-30°x 80°

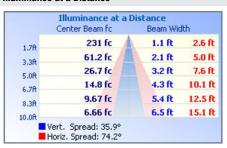


Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	342.3	43.7%
0-40	477.6	61%
0-60	673.2	86%
60-90	104.8	13.4%
70-100	50.7	6.5%
90-120	5.1	.6%
0-90	778.0	99.4%
90-180	5.1	.6%
0-180	783.0	100%

Efficiency Total: 99%

Illuminance at a Distance



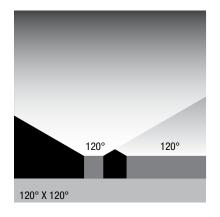


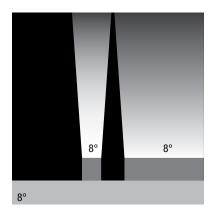
Photometry

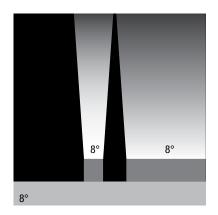


eCVL WET AVAILABLE OPTICS

FIND IFS FILES ON SOLIDSTATE UMINAIRES.COM







PERFORMANCE

	Connected Delivered Lumens					
Model	Wattage	2400K	2700K	3000K	3500K	4000K
ECVLWET1.5-1	3.5	255	273	282	295	300
ECVLWET1.5-4	14	1020	1092	1128	1180	1200
ECVLWET1.5-6	21	1530	1638	1692	1770	1800

DIMMING

TRIAC, REV	ERSE PHASE DIMMING		
Model	Description		
DELV	Lutron Diva Dimmer 300P	+	4
SELV	Lutron Skylark Dimmer 153P		

Lutron Skylark Dimmer 300P

Dimmers sold by others.

SCL

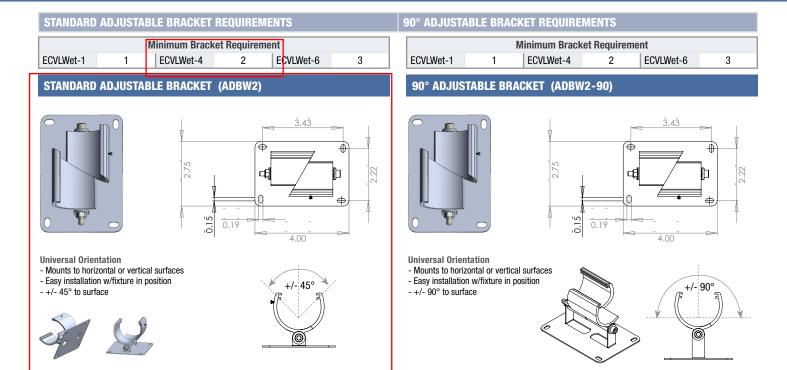
SELV

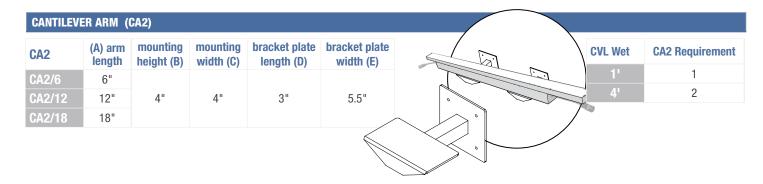
SCL

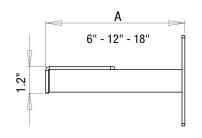
DELV

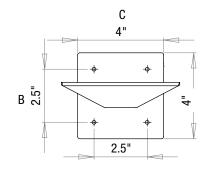
Mounting Options

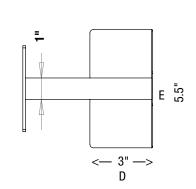














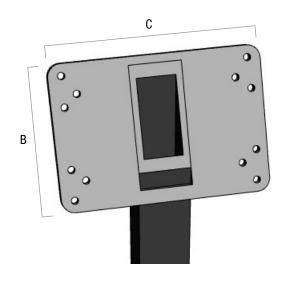
a US Commercial Lighting Manufacturer Since 1982

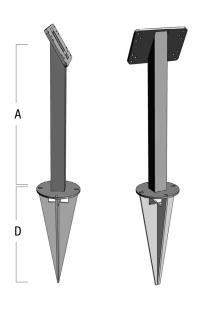
Specification Sheet

Mounting Option Accessories

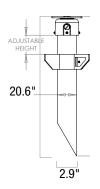


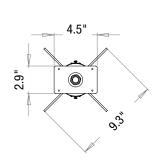
LS	(A) arm length	bracket plate length (B)	bracket plate width (C)	spike depth (D)
LS/6	6"			
LS/12	12"	3"	5.5"	6"
LS/18	18"			

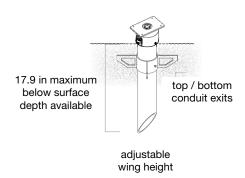




HEAVE DUTY LANDSCAPE SPIKE - CWLS





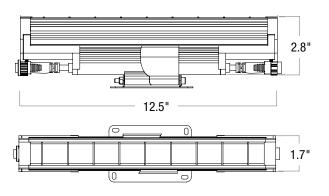


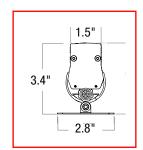
JA Rev. 07/17/2019

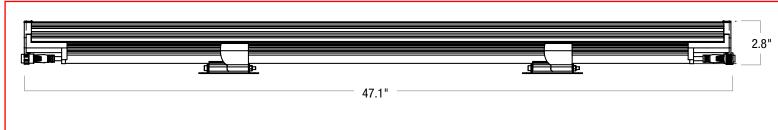
eCOVELINE WET 1.5

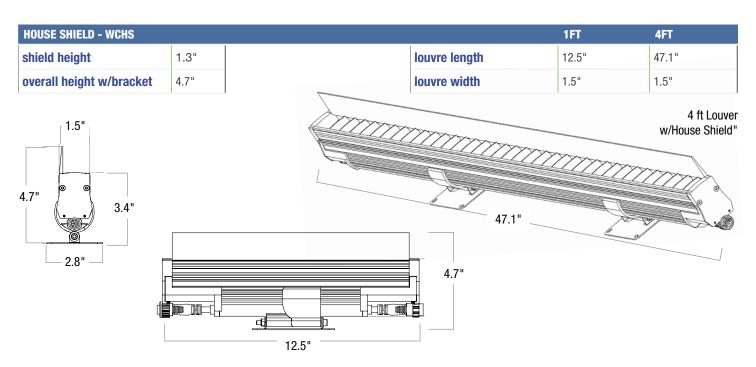
Accessories







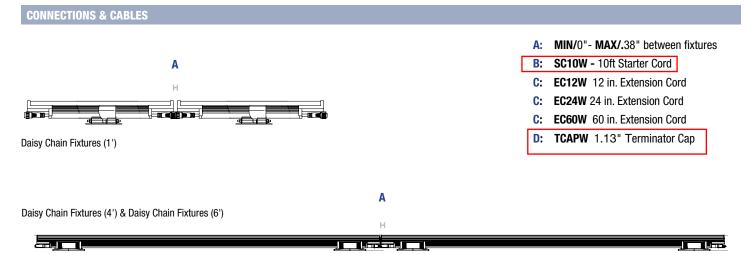


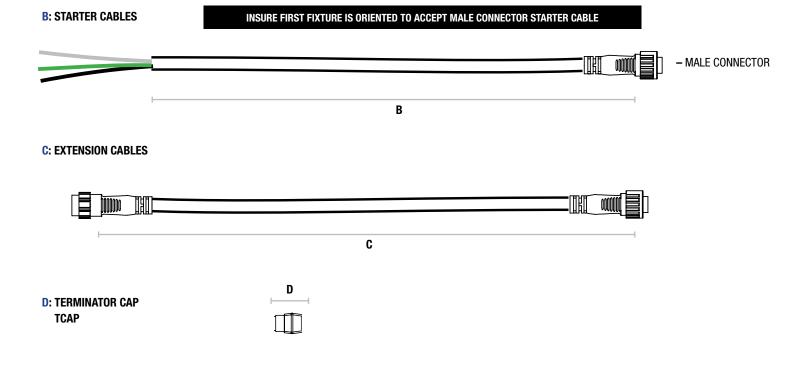


a US Commercial Lighting Manufacturer Since 1982

Specification Sheet







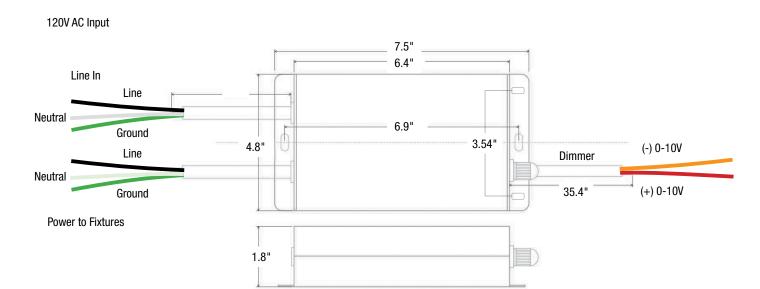
JA Rev. 07/17/2019

eCOVELINE WET 1.5

Control Components



0-10V ELV DIMMING MODULE (10VELV DIM)



CONTROLS



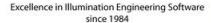
Use of exterior rated, IP66, IP67, or IP68 enclosure for Dimming Module is recommended. Recommended controls are interior rated only.

TRIAC, REVERSE PHASE DIMMING

Model	Description			
DELV	Lutron Diva Dimmer 300P	1		
SELV	Lutron Skylark Dimmer 153P			
SCL	Lutron Skylark Dimmer 300P	DELV	SELV	SCL

Dimmers are sold by others. FC|SSL does not recommend dimmers that have not been tested with their fixtures.







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Photometric Report (Type C)

Filename: C1 Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES

[TEST] 2982

[MANUFAC] FC Lighting

[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

Maximum Candela = 2324.22 at 60 H 1 V

Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 91

Indoor Classification: Direct

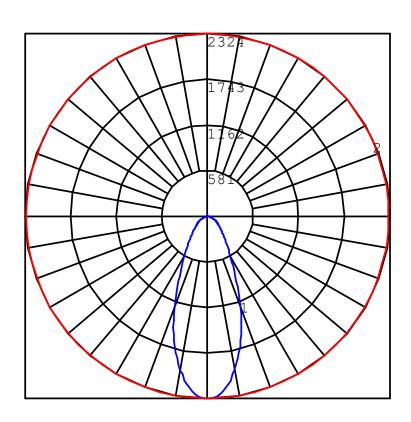
BUG Rating : B1-U1-G0

Polar Candela Curves:

Vertical Plane Through: 1) 60 - 240 Horizontal

Horizontal Cone Through:

2) 1 Vertical





Photometric Report (Type C)

Filename: C1 Photometric test Report#2982 ECVLXWET1.5-4-UNV-35K-30x80.IES

[TEST] 2982

[MANUFAC] FC Lighting

[LUMCAT] ECVLXWET1.5-4-UNV-35K-30x80

Maximum Candela = 2324.22 at 60 H 1 V

Classification:

Road Classification: Type I, Very Short, N.A. (deprecated)

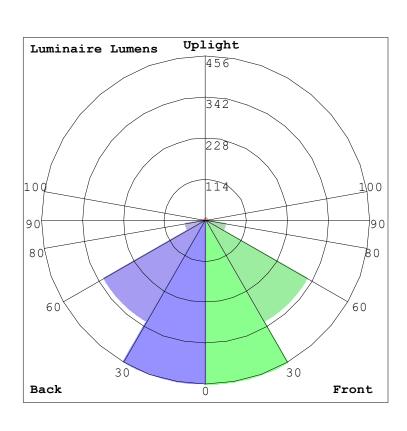
Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 91

Indoor Classification: Direct

BUG Rating : B1-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	455.9	N.A.	27.2
FM (30-60)	324.4	N.A.	19.4
FH (60-80)	55.4	N.A.	3.3
FVH (80-90)	1.8	N.A.	0.1
BL (0-30)	454.1	N.A.	27.1
BM (30-60)	324.4	N.A.	19.4
BH (60-80)	55.4	N.A.	3.3
BVH (80-90)	1.8	N.A.	0.1
UL (90-100)	< 0.05	N.A.	0.0
UH (100-180)	3.1	N.A.	0.2
Total	1676.3	N.A.	100.0
BUG Rating	B1-U1-G0		



Halo Commercial

DESCRIPTION

Recessed 4-inch LED downlight provides narrow, medium or wide distribution patterns ideal for general area lighting. Lumen packages range from 1000 to 4000 lumens in color temperatures of 2700K, 3000K, 3500K, and 4000K; in 80 or 90CRI. Luminaire is airtight and can be installed in new construction or below the finished ceiling in remodeling applications. Intended applications include office spaces, healthcare, hospitality, schools, house of worship and other institutional uses.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Housing Frame

- Boat shaped galvanized steel plaster frame with adjustable plaster lip accommodates1/2" to 1-1/2" thick ceilings
- May be installed in new construction; or from below the finished (non-accessible) ceiling in remodeling.
- Provided with (2) old work remodel clips to secure the frame to the ceiling

Universal Mounting Bracket

- Mounting bracket adjusts 2" vertically from above the ceiling or thru the aperture
- Use with the included mounting bars or with ½" EMT
- Removable to facilitate installation from below the finished ceiling

Mounting Bars

- Captive preinstalled No Fuss™ mounting bars lock to tee grid with screwdriver or pliers
- Centering mechanism allows for consistent positioning of fixtures

LED Module

- Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation
- Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity
- 90 CRI, R9>50 (refer to chromaticity tech sheet online for details www.eaton.com/lighting)
- Correlated color temperature options
 - 2700K
 - 3000K
 - 3500K
 - 4000K
- Passive thermal management achieves L70 at 50,000 hours in IC and non IC applications
- Integral diffuse lens provides visual shielding
- Integral connector allows quick connection to housing flex

Lumen Options

- Nominal lumen values
 - 1000 lm
 - 1500 lm
 - 2000 lm
 - 3000 lm
 - 4000 lm

Reflector

- Self-flanged aluminum reflectors are available in narrow, medium or wide distribution patterns
- Medium distribution polymer nonconductive reflector may be used to meet local codes for 'dead front' applications
- Wall wash reflector features a rotatable insert assembly with integral linear spread lens for alignment of vertical illumination.
- Reflectors attach to LED module with (3) speed clamps
- Multiple painted or plated finishes are available

Reflector / Module Retention

 Reflector / module assembly is securely retained in the housing with (2) torsion springs

Driver

- Field replaceable constant current driver provides low noise operation
- UNV 120-277VAC 50/60Hz input standard
- 347VAC 50/60Hz input option (Canada only)
- Continuous, flicker-free 1% 100% dimming with 0 -10V analog control
- Optional low voltage DC driver for use with Eaton's DLVP distributed low voltage power system combines power and control

Emergency Option

- Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting
- Available with integral or remote charge indicator and test switch

Connected Lighting System Options

- WaveLinx tile mount daylight sensor includes control module, sensor and cable providing comprehensive lighting control
- LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and control kit

Junction Box

- Galvanized steel junction box
- 20in³ internal volume excluding voltage barrier
- 25 in³ internal total volume
- Voltage barrier for 0-10V dimming wires [occupies (1) 1/2" pry-out space]
- Listed for (8) #12 AWG (four in, four out) 90° C conductors and feed-thru branch wiring
- (3) 1/2" and (2) 3/4" trade size pry-outs available
- (3) 4-port push wire nuts for mains voltage, with 1-port for fixture connection

Compliance

- cULus damp and wet location listed in protected ceilings; and IP20 - Above finished ceiling; IP64 - Below finished ceiling
- Non-IC rated for 2000, 3000 and 4000 lumen models. Insulation must be kept 3" from top and sides
- IC rated for 1000 and 1500 lumen models, and suitable for direct contact to air permeable insulation
- Not for use in direct contact with spray foam insulation, consult NEMA LSD57-2013
- Airtight per ASTM-E283-04
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements
- EMI/RFI emissions FCC CFR Title 47 Part 15 Class A at 120/277V & Class B at 120V
- Contains no mercury or lead and RoHS compliant
- Photometric testing in accordance of IES LM-79-08
- Lumen maintenance projection in accordance of IES LM-80-08 and TM-21-11
- 1000 and 1500 lumen 90CRI ICAT models may be used to comply with State of California Title 24 residential code, with JA8-2016-E database certification
- May be used to comply with State of California Title 24 non-residential code, as a dimmable LED luminaire
- ENERGY STAR certified, reference certified light fixtures database

Warranty

 Five year limited warranty, consult website for details. www.eaton.com/lighting/legal



HC4
Housing Frame

HM4 LED Module

> 41 41PS

Series Reflectors

4-inch Lens Downlight and Lens Wall Wash

1000/1500/2000/ 3000/4000 Lumen









ENERGY DATA

Series	1000 lumen			
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.085	0.042		
Input Power (W)	10.1	10.9		
In-rush Current (A)	0.644	1.95		
In-rush Duration (ms)	0.125	0.24		
THDi (%)	8.6	15.6		
PF:	≥ 0	1.90		
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperature	-40°C (-40°F)			
Sound Rating: Class A standa	rds			

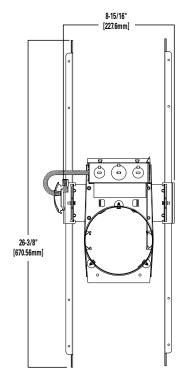
Series	1500 lumen			
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.119	0.055		
Input Power (W)	14.2	14.9		
In-rush Current (A)	0.212	0.85		
In-rush Duration (ms)	0.28	0.32		
THDi (%)	7.8	16.3		
PF:	≥ 0.90			
(Nominal input 120-277VAC & 1	00% of rated οι	ıtput power)		
Minimum starting temperature -40°C (-40°F)				
Sound Rating: Class A standar	ds			

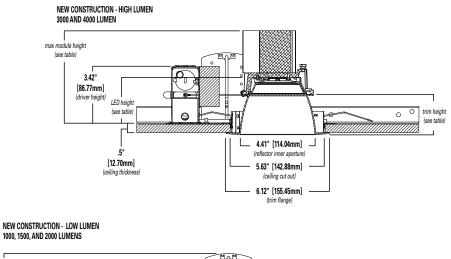
Series	2000	2000 lumen		
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.176	0.082		
Input Power (W)	21.1	21.4		
In-rush Current (A)	0.588	0.624		
In-rush Duration (ms)	0.3	0.38		
THDi (%)	8.8	11.2		
PF:	≥ 0.90			
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperatu	re -40°C (-40°F)			
Sound Rating: Class A stand	dards			

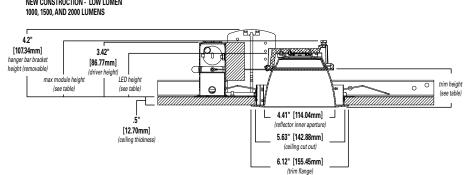
Series	3000	lumen		
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.228	0.102		
Input Power (W)	27.2	27		
In-rush Current (A)	0.898	1.7		
In-rush Duration (ms)	0.36	0.38		
THDi (%)	9.7	9.3		
PF: ≥ 0.90				
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperatu	re -40°C (-40°F)			
Sound Rating: Class A stand	lards			

Series	4000 lumen			
Input Voltage (VAC)	120V	277V		
Input Current (A)	0.345	0.15		
Input Power (W)	41.3	40.7		
In-rush Current (A)	1.05	2.23		
In-rush Duration (ms)	0.32	0.34		
THDi (%)	10.06	14.01		
PF:	≥ 0.90			
(Nominal input 120-277VAC & 100% of rated output power)				
Minimum starting temperature -40°C (-40°F)				
Sound Rating: Class A standards				

DIMENSIONS







High Lumen (3000 & 4000 Lumens)

Distribution	Max. Module Height	Trim Height	LED Height
Narrow	5.6"	2.5"	2.9"
Medium	5.7″	2.6"	3.0"
Wide	5.5"	2.4"	2.8"
Baffle	5.5"	2.4"	2.8"

Low Lumen (1000, 1500 & 2000 Lumens)*	Low Lumen	(1000,	1500 &	2000	Lumens)*
---------------------------------------	-----------	--------	--------	------	----------

	Max. Module Height	Trim Height	LED Height
]_	3.6"	2.5″	2.7″
	3.7"	2.6"	2.8"
ľ	3.5"	2.4"	2.6"
	3.1"	2.4"	2.6"



*Max. height w/hanger bar bracket 4.2"

Ordering Information

Sample Number: HC420D010REM7 - HM412835 - 41MDC A complete luminaire consists of a housing frame, LED module, and reflector (ordered separately)

Mounting Frame	Lumens	Input / Control
#C4 = 4" new construction and remodeler housing #C4CP = 4" new construction and remodeler housing, CCEA Chicago Plenum rated 10 = 1000 lumens (nominal) 20 = 2000 lumens (nominal) 30 = 3000 lumens (nominal) 40 = 4000 lumens (nominal)		D010 = 120-277VAC 50/60Hz 0-10V analog 1%-100% dimming D010347 = 347VAC 50/60Hz 0-10V analog 1%-100% dimming (Canada only) 1 DLV = Distributed Low Voltage driver, 1%-100% dimming DLV for use with Eaton's DLVP system only. Refer to DLVP low-voltage power module and DLVP specifications for details. 1
Options		Accessories
REM7 = 7 watt emergency module with remote test / indicator light, use with D010 only ¹ REM14 = 14 watt emergency module with remote test / indicator light, use with D010 only ¹ REMV7 = 7 watt emergency module with remote test / indicator light, use with D1V only ¹ , ² REMV14 = 14 watt emergency module with remote test / indicator light, use with D1V only ¹ , ² IEM7 = integral 7 watt emergency module with integral test / indicator light, use with D010 only ¹ IEM14 = integral 14 watt emergency module with integral test / indicator light, use with D010 only ¹ IEMV15 = integral 7 watt emergency module with integral test / indicator light, use with D1V only ¹ , ² IEMV14 = integral 14 watt emergency module with integral test / indicator light, use with D1V only ¹ , ² IEMV19 = factory installed LumaWatt Pro wireless tile mount sensor kit, use with D010 only ¹ SWPD1 = factory installed WaveLinx tile mount daylight sensor, includes control module, sensor, and cable, use with D010 only ¹		HB128APK = L channel hanger bar, 26", pair (replacement) RMB22 = Adjustable wood joist mounting bars, pair, extend to 22" long H347 = 347 to 120V step down transformer, 75VA H347200 = 347 to 120V step down transformer, 200VA PORLWTPD1 = LumalVatt Pro wireless sensor kit, field installed, use with D010 only ¹ TMSWPD1 = WaveLinx wireless sensor kit, field installed, use with D010 only ¹

LED Module	Lumens	CRI/CCT
HM4 = 4" LED module	12_1000, 1500 and 2000 lumens (nominal), use with HC410*, HC415*, HC420* housings 34=3000 and 4000 lumens (nominal), use with HC430*, HC440* housings	827 = 80 CRI (minimum), 2700K CCT 830

Reflector	Distribution ³	Finish	Flange	Accessories
41 = 4" conical reflector	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	41RWWPK = rotatable wall wash insert for 4" reflector –replacement part kit

Baffle	Distribution ³	Finish	Flange	Accessories
41 = 4" baffle reflector	WD = wide 75° beam angle 1.24 SC (nominal) RWW = rotatable wall wash with linear spread lens	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	41RWWPK = rotatable wall wash insert for 4" reflector –replacement part kit

IEM Reflector	Distribution ³	Finish	Flange	Integral Emergency
41 = 4" conical reflector for integral emergency only	ND = narrow 50° beam angle 0.84 SC (nominal) MD = medium 60° beam angle 1.00 SC (nominal) WD = wide 75° beam angle 1.24 SC (nominal)	C = Specular clear H = Semi-specular clear W = White (white flange)	Blank = Polished flange standard with C & H reflectors Blank = White flange standard with W reflector WF = White flange option available with C & H reflectors	IEM = Reflector for integral emergency only

IEM Baffle	Distribution ³	Finish	Flange	Integral Emergency
41 = 4" baffle reflector for integral emergency only	WD = wide 75° beam angle 1.24 SC (nominal)	BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = White flange standard with BB, & WB	IEM = Reflector for integral emergency only

Reflector	Distribution ³	Finish	Flange
41PS = 4" non-conductive polymer 'dead front' conical reflector ⁴	MD = medium 60° beam angle 1.00 SC (nominal)	W = White (white flange)	Blank = White flange standard with W reflector

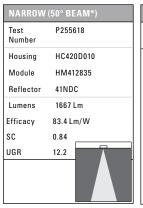
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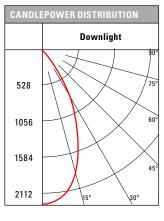
- 1. Not available with CP version
 2. ULus for U.S. only
 3. Values are nominal for white reflector, others may vary.
 4. 41PS reflector only available in NON-IC environments and up to 3000 lumens.



PHOTOMETRY

NARROW DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K





CONE OF LIGHT						
000						
МН	FC	L	W			
5.5'	5.5' 69.8 4.4 4.4					
7' 43.1 5.6 5.6						
8'	33	6.4	6.4			
9' 26.1 7.2 7.2						
10' 21.1 8.2 8.2						
12' 14.7 9.8 9.8						

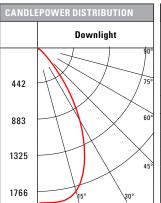
CANDELA TABLE		
Degrees Vertical	Candela	
0	2112	
5	2079	
15	1784	
25	1157	
35	534	
45	116	
55	13	
65	0	
75	0	
85	0	
90	0	

ZONALL	.UMEN SU	MMARY	LUMIN
Zone	Lumens	% Fixture	Averaç Cande
0-30	1219	73.1	Degree 45
0-40	1553	93.1	
0-60	1666	99.9	55
0-90	1667	100	65
90-180	0	0	75
0-180	1667	100	85

1	LUMINANO	E
е	Average Candela Degrees	Average 0° Luminance
	45	15974
	55	2141
	65	0
	75	0
	85	0

MEDIUM DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

MEDIUM	(60° BEAM*)
Test Number	P255818
Housing	HC420D010
Module	HM412835
Reflector	41MDC
Lumens	1793 Lm
Efficacy	89.7 Lm/W
sc	1.0
UGR	13.6



	CONE OF LIGHT				
	000				
	МН	FC	L	W	
	5.5'	58.2	5.2	5.2	
1	7'	35.9	6.6	6.6	
	8' 27.5 7.6 7.6				
	9'	21.7	8.6	8.6	
	10'	17.6	9.6	9.6	
•	12'	12.2	11.6	11.6	

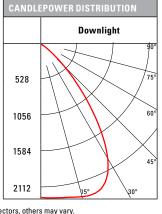
	CANDEL	A TABLE
	Degrees Vertical	Candela
	0	1761
	5	1764
	15	1686
_	25	1257
	35	655
	45	164
	55	28
	65	8
	75	2
	85	0
	90	0
ı		

ZONAL LUMEN SUMMARY				
Zone	Zone Lumens			
0-30	1209	67.4		
0-40	1615	90.1		
0-60	1784	99.5		
0-90	1793	100		
90-180	0	0		
0-180	1793	100		

ı	LUMINANCE		
	Average Candela Degrees	Average 0° Luminance	
	45	22576	
	55	4707	
	65	1753	
	75	941	
	85	0	

WIDE DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K

WIDE (75°	BEAM*)
Test Number	P256018
Housing	HC420D010
Module	HM412835
Reflector	41WDC
Lumens	1889 Lm
Efficacy	94.4 Lm/W
SC	1.24
UGR	15.7



МН	FC	L	W	
5.5'	41.6	6.6	6.6	
7'	25.7	8.6	8.6	
8'	19.7	9.8	9.8	
9'	9' 15.5		11	
10'	12.6	12.2	12.2	
12'	8.7	14.6	14.6	

CONE OF LIGHT V-----

CANDEL	A TABLE	ZONALL	.UMEN SU	IMMAR
Degrees Vertical	Candela	Zone	Lumens	% Fixtu
0	1257	0-30	1054	55.8
5	1265	0-30	1034	33.6
15	1295	0-40	1571	83.2
25	1247			
35	841	0-60	1871	99.1
45	312			
55	50	0-90	1889	100
65	13			
75	5	90-180	0	0
85	0			
90	0	0-180	1889	100

JMMARY	LUMINANO	E
% Fixture	Average Candela	Average 0°
	Degrees	Luminance
55.8	45	43057
83.2		
99.1	55	8564
	65	2906
100		
0	75	1883
"		
100	85	0
'00		

SC = Spacing Criteria

UGR = Unified Glare Rating

Photometric Multipliers (nominal lumen values)

1000 Lumen	1500 Lumen	2000 Lumen	3000 Lumen	4000 Lumen
0.53	0.72	1.00	1.38	1.87

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	Н	W/WB	ВВ
Finish	Specular Clear	Semi-Specular	Matte White White Baffle	Black Baffle
Multiplier	1.00	0.95	0.97	0.82

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K	
0.91	0.94	1.00	1.01	

Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K
0.75	0.82	0.89	0.89

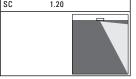
Multipliers for relative lumen values with other series color temperatures.

^{*}Value are nominal for specular clear reflectors, others may vary.

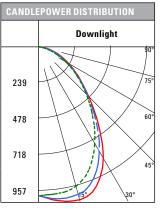
PHOTOMETRY

WALL WASH DISTRIBUTION - SPECULAR CLEAR FINISH, 2000 LUMEN MODEL, 80 CRI, 3500K





SC = Spacing Criteria, nominal for specular clear reflector, others may



CANDELA TABLE					
Degrees Vertical	Candela				
0	901				
5	929				
15	957				
25	871				
35	647				
45	420				
55	267				
65	156				
75	70				
85	8				
90	0				

	SINGLE UNIT FOOTCANDLES								
	2.5' from wall (distance from fixture along wall)								
1	9.4	6.9	3.2	1.1	0.3	0.1	0		
2	12.4	9.5	5.2	2.4	0.9	0.3	0.1		
3	13.7	11.1	5.9	2.5	1.1	0.4	0.2		
4	10.7	9.4	6.1	3	1.2	0.5	0.2		
5	7.7	7	5.4	3.1	1.5	0.6	0.2		
6	5.5	5.2	4.3	3	1.6	0.8	0.3		
7	4	3.9	3.4	2.6	1.6	0.9	0.4		
8	3	2.9	2.6	2.1	1.5	0.9	0.5		
9	2.3	2.2	2.1	1.8	1.4	1	0.6		
10	1.8	1.8	1.6	1.4	1.2	0.9	0.6		

ZONALL	.UMEN SU	MMARY
Zone	Lumens	% Fixture
0-30	700	38.5
0-40	1078	59.3
0-60	1630	89.8
0-90	1816	100
90-180	0	0
0-180	1816	100

LUMINAN	CE
Average Candela	Average 0°
Degrees	Luminance
45	57956
55	45350
65	35998
75	26547
85	8498

MULTIPLE UNIT FOOTCANDLES							
		2.5' from wall e from fixture along wall) 3 4 4 -					
1	10.5	9.8	10.5		10.5	9.8	10.5
2	14.8	14.5	14.8		14.8	14.5	14.8
3	16.2	17	16.2		16.2	17	16.2
4	13.7	15.8	13.7		13.7	15.8	13.7
5	10.8	12.6	10.8		10.8	12.6	10.8
6	8.5	9.6	8.5		8.5	9.6	8.5
7	6.6	7.3	6.6		6.6	7.3	6.6
8	5.2	5.6	5.2		5.2	5.6	5.2
9	4.1	4.4	4.1		4.1	4.4	4.1
10	3.2	3.4	3.2		3.2	3.4	3.2

Photometric Multipliers (nominal lumen values)

1000 Lumen 1500 Lumen		2000 Lumen	3000 Lumen	4000 Lumen	
0.53	0.72	1.00	1.38	1.87	

Multipliers for relative lumen values with other series models.

Color Finish Multipliers

Finish code	С	Н	W/WB	ВВ	
Finish	Specular Clear Semi-Spe		Matte White White Baffle	Black Baffle	
Multiplier	1.00	0.95	0.97	0.82	

Multipliers for relative lumen values with other color finishes.

CCT Multipliers - 80CRI

2700K	3000K	3500K	4000K
0.91	0.94	1.00	1.01

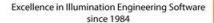
Multipliers for relative lumen values with other series color temperatures.

CCT Multipliers - 90CRI

2700K	3000K	3500K	4000K
0.75	0.82	0.89	0.89

Multipliers for relative lumen values with other series color temperatures.







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Photometric Report (Type C)

Filename: D1 HC410D010-HM412830-41MDH.ies

[TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (G1-1805-779-8)

[TESTLAB] INNOVATIONS CENTER (G1)

[ISSUEDATE] 7/17/2018

[MANUFAC] COOPER LIGHTING - HALO [LUMCAT] HC410D010-HM412830-41MDH

[LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION

FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM [LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 754.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 85

Indoor Classification: Direct

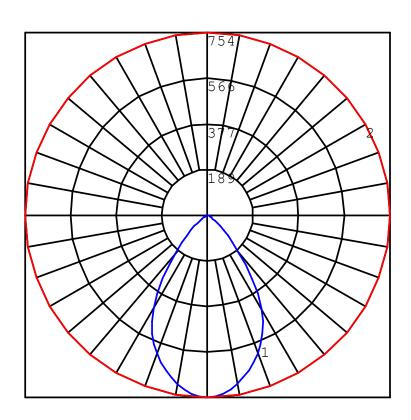
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical









sample banner copyright 2013 Lighting Analysts, Inc.

Photometric Report (Type C)

Filename: D1 HC410D010-HM412830-41MDH.ies

[TEST] P255881 TEST IS SCALED FROM IESNA LM-79-08 TEST

DATA (G1-1805-779-8)

[TESTLAB] INNOVATIONS CENTER (G1)

[ISSUEDATE] 7/17/2018

[MANUFAC] COOPER LIGHTING - HALO [LUMCAT] HC410D010-HM412830-41MDH

[LUMINAIRE] HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION

FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM [LAMP] (1) HIGH LUMEN LED 80CRI / 3000K CCT

Maximum Candela = 754.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

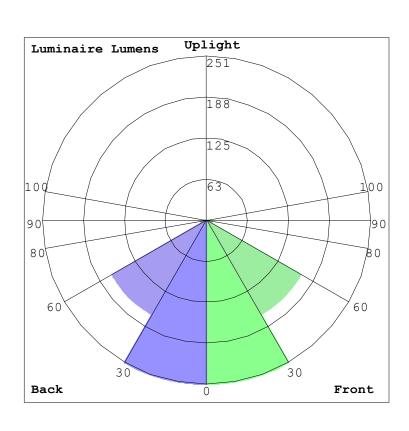
Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 85

Indoor Classification: Direct

BUG Rating : B1-U0-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	250.7	N.A.	29.5
FM (30-60)	166.1	N.A.	19.5
FH (60-80)	8.0	N.A.	0.9
FVH (80-90)	0.3	N.A.	0.0
BL (0-30)	250.7	N.A.	29.5
BM (30-60)	166.1	N.A.	19.5
BH (60-80)	8.0	N.A.	0.9
BVH (80-90)	0.3	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	850.2	N.A.	100.0
BUG Rating	B1-U0-G0		



McGraw-Edison

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wve systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA. 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. QUICK MOUNT ARM: Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



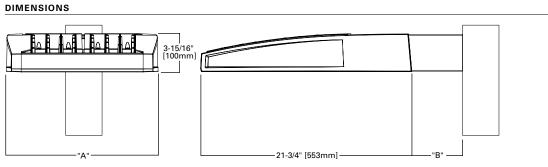
GLEONGALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE



WaveLinx



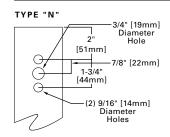
DIMENSION DATA

DIMENSION DATA								
Number of Light Squares	Stand		"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)			
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96			
5-6 21-5/8" (549mm)		7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00			
7-8 27-5/8" (702mm)		7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07			
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28 6 kgs.)	1.12			

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.



DRILLING PATTERN







CERTIFICATION DATA

3G Vibration Rated
DesignLights Consortium® Qualified*
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

ENERGY DATA

Electronic LED Driver

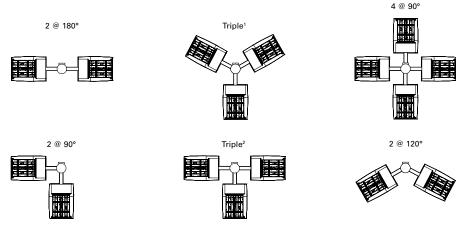
>0.9 Power Factor <20% Total Harmonic Distortion 120V-277V 50/60Hz 347V, 480V 60Hz -40°C Min. Temperature 40°C Max. Temperature (HA Option)



page 2 GLEON GALLEON LED

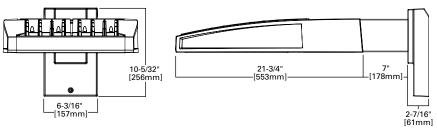
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

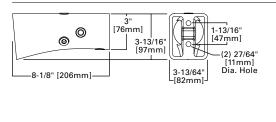


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

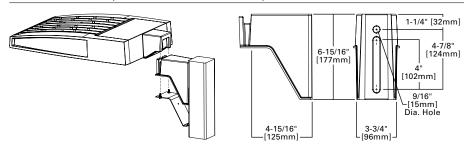
STANDARD WALL MOUNT

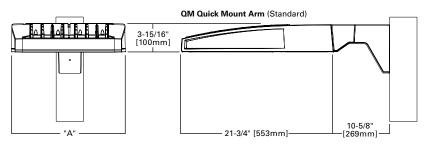


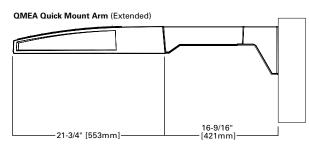




QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)







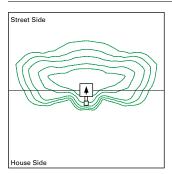
QUICK MOUNT ARM DATA

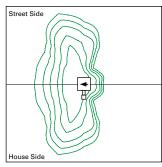
Number of Light Squares 1,2	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.) 38 (17.27 kgs.)		
5-6 ³	21-5/8" (549mm) 46 (20.91 kgs.) 49 (22.27 kgs.		49 (22.27 kgs.)	1.11
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

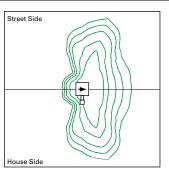
NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

GLEON GALLEON LED page 3

OPTIC ORIENTATION





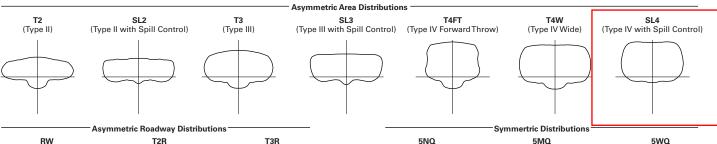


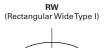
Standard

Optics Rotated Left @ 90° [L90]

Optics Rotated Right @ 90° [R90]

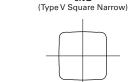
OPTICAL DISTRIBUTIONS

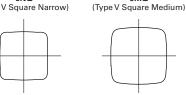


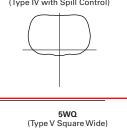




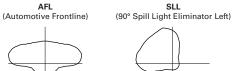


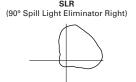






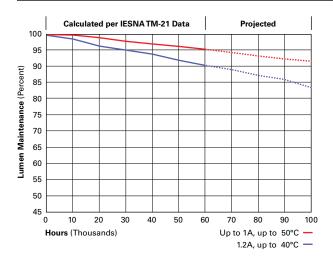
Specialized Distributions





LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000



LUMEN MULTIPLIER

Lumen Multiplier
1.02
1.01
1.00
0.99
0.97

NOMINAL POWER LUMENS (1A)

	L POWER LUMENS (,	7								
Number o	of Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal P	Power (Watts)	59	113	166	225	279	333	391	445	501	558
Input Curr	rent @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Curr	rent @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Curr	rent @ 240V (A)	0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Curr	rent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Curr	rent @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Curr	rent @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics	Optics										
	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
T2	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
T2R	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
Т3	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
T3R	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
T4FT	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
T4W	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
SL2	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
SL3	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
SL4	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
5NQ	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
5MQ	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
5WQ	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
SLL/SLR	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
RW	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
<u> </u>	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
AFL	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

^{*} Nominal data for 70 CRI.



page 8 GLEON GALLEON LED

CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P. R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

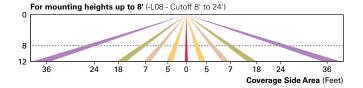
After Hours Dim (AHD)

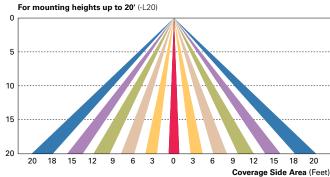
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

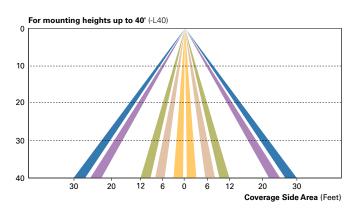
Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

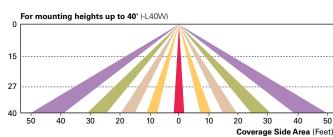
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage. pattern for mounting heights from 8'-40'.



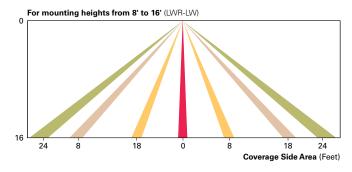


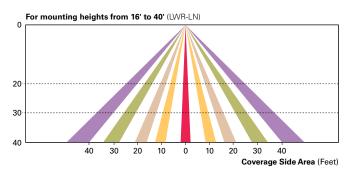




LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.





WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform

ORDERING INFORMATION

Sample Number: GLEON-AE-04-LED-E1-T3-GM-OM

Sample Number: GL	EON-AF-04-LED-E	:1-13-GM-QM						
Product Family 1,2	ght Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution		Color	Mounting
GLEON-Galleon AF	1A Drive Current	01 =1 02=2 03=3 04=4 05=5 4 06=6 07=7 * 08=8 * 09=9 * 10=10 *	LED_Solid State Light Emitting Diodes	12 0-277V 347 =347V ⁷ 480 =480V ²⁸	T2=Type II T2R=Type II Roadway T3=Type III Roadway T3F-Type III Roadway T4F1=Type II ForwardThrov T4W=Type I V ForwardThrov T4W=Type I V Wide 5NQ=Type V Square Mediur 5WQ=Type V Square Mediur 5WQ=Type V Square Wide St2=Type II w\Spill Control St3=Type II w\Spill Control St4=Type IV w\Spill Light Eliminate SLR=90° Spill Light Eliminate	m or Left or Right	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²
Options (Add as Su	uffix)		1	1	-	Accessorie	es (Order Separately)	-
Options (Add as Suffix) 7027–70 CRI 2700K 19 7080–70 CRI 3000K 19 7080–70 CRI 3000K 19 7080–70 CRI 5000K 19 70								int 188" O.D.Tenon 38" O.D.Tenon 1/2" O.D.Tenon 1

NOTES

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with ungrounded with sensor options at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems or corner grounded systems or corner grounded systems or corner grounded systems or corner grounded systems. Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use declicated IES files for 5000K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use declicated IES files for 5000K, 3000K, 5000K and 6000K when performing layouts. 14 Reserved 15 1 Amp standard. Use declicated IES files for 5000M, 8000m A and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120° Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control l

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul	
L=LumenSafe Technology* LumenSafe Technology CUCKHERE	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	W =Wi-Fi Networking w/ Omni-Directional Antenna E =Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.



dimensions subject to

change without notice.



FCSL550



Date:	Approved:
Туре:	SL
Fixture:	
Project:	

FCSL550 IP65 rated exterior recessed cut-off 6" tall mini step light for masonry applications. Corrosion resistant, die-cast aluminum construction, this fixture provides illumination for damp, dry or wet areas.

This product has Quick Ship options available. See fclighting.com Quick Ship.



SPECIFICATIONS

PHYSICAL	
dimensions	fixture: 3.6" W x 5.9" H x 5.5" D
weight	1 lbs
housing	marine grade, corrosion resistant, heavy gauge aluminum faceplate
lens	clear, tempered, glass lens
mounting	concrete pour, masonry applications
ingress protection	IP65 : dry, damp or wet locations with extruded silicone gasket to seal out contaminants
finish	six stage chemical iron phosphate substrate pre-treatment process for a UV stable, super durable standard polyester powder coat

PERFORMANCE					
color temperature	2700K	3000K	3500K	4000K	
lumen output	157 lm				
lifetime	> 70,000 hours / L70 or better				
color consistency	3-Step McAdams Ellipse / standard: CRI ≥ 85 optional: 90CRI				
temperature	operating: -13°F to 104°F (-25°C to 40°C) start up: -13°F to 104°F (-25°C to 40°C) storage: -40°F to 176°F (-40°C to 80°C)				
junction temperature	73°C @ T ^A 25°C				
warranty	5 year limited warranty (ı	refer to website for details)			

ELECTRICAL	
input voltage	Universal 120–277V AC
power supply	integral Class II, electronic high-power factor > 94% @120V
certifications	ETL / cETL Listed
standards	UL1598/CSA C22.2 No. 250.0; UL 8750/CSA C22.2 No. 250.13/IES LM-79/LM-80
power consumption	10W @ 120V - 277V
dimming interface	optional: 0-10V (integral)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



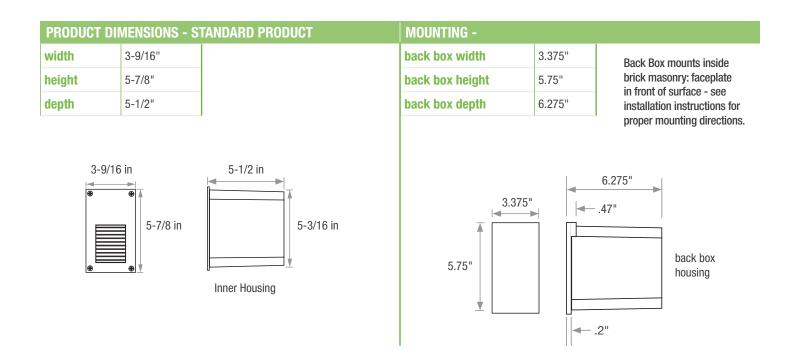


Ordering Information

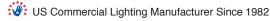
ORDERING INFORMATION

This product has Quick Ship options available. See fclighting.com Quick Ship.

FCSL550					
SERIES	VOLTAGE	SOURCE/TEMPERATURE/LED LUMENS	CRI	FINSH	OPTIONS & ACCESSORIES
FCSL550	120V 120V	LED 27K 157 Lumens (10W)	CRI85 85 CR	I BK Black	LD Dimming 0-10V
	277V 277V	3K	CRI90 90 CR	I BZ Bronze	
	UNV 120V-277V	35K		CC Custom Color	
		4K		SL Sllver	
				WH White	



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.





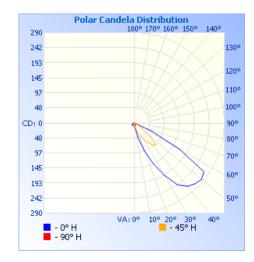
Photometry

OPTICAL DISTRIBUTION

lumen output	157 Lm @ 4000K
power consumption	10W



itl illuminations testing labroatory: Report #1023



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions.



Excellence in Illumination Engineering Software since 1984



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Photometric Report (Type C)

Filename: SL_FCSL-550-120V-4K-160LM.ies

[TEST] TypeC Intensity [TESTLAB] FC/SSL Lab [MANUFAC] FC/SSL Lighting

[LUMINAIRE] Exterior Die-Cast 6†Tall Mini Step Light

with Die-Cast or 316 Stainless Steel Faceplate

[LAMP] LED

Maximum Candela = 282.313494147062 at 0 H 50 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 16

Indoor Classification: Direct

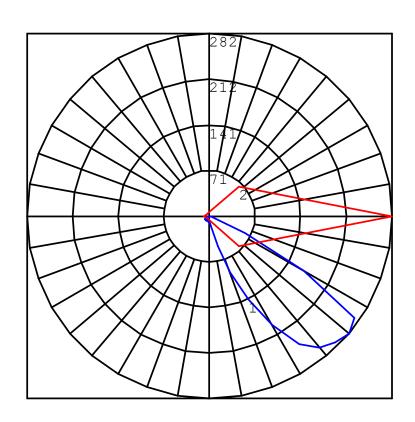
BUG Rating : B0-U1-G0

Polar Candela Curves:

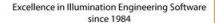
Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 50 Vertical









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Photometric Report (Type C)

Filename: SL FCSL-550-120V-4K-160LM.ies

[TEST] TypeC Intensity [TESTLAB] FC/SSL Lab [MANUFAC] FC/SSL Lighting

[LUMINAIRE] Exterior Die-Cast 6†Tall Mini Step Light

with Die-Cast or 316 Stainless Steel Faceplate

[LAMP] LED

Maximum Candela = 282.313494147062 at 0 H 50 V

Classification:

Road Classification: Type III, Very Short, N.A. (deprecated)

Upward Waste Light Ratio: 0.00

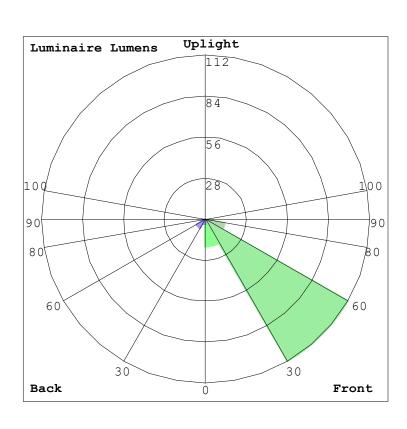
Luminaire Efficacy Rating (LER): 16

Indoor Classification: Direct

BUG Rating : B0-U1-G0

LCS Summary:

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	18.7	N.A.	11.9
FM (30-60)	112.5	N.A.	71.5
FH (60-80)	13.3	N.A.	8.5
FVH (80-90)	0.2	N.A.	0.1
BL (0-30)	3.4	N.A.	2.1
BM (30-60)	7.1	N.A.	4.5
BH (60-80)	2.1	N.A.	1.3
BVH (80-90)	0.1	N.A.	0.1
UL (90-100)	0.1	N.A.	0.0
UH (100-180)	< 0.05	N.A.	0.0
Total	157.5	N.A.	100.0
BUG Rating	B0-U1-G0		



LED110P



3rd Generation Architectural LED Wallpack

DESCRIPTION

TRACE*LITE's third generation TLED110P series LED wallpack features an updated SSL light engine that provides 0-10V dimming as well as improvements in efficacy, lumen output, and thermal management while still maintaining the consistent look of our proven decorative trapezoid housing. The TLED110P housing is constructed of die-cast aluminum with a UV resistant, thermoset polyester powder coated finish that provides durable protection against environmental conditions, corrosion and the elements. The SSL light engine's LEDs are protected by a high-impact, tempered glass lens.

SPECIFICATIONS

Construction:

The TLED110P series has a precision designed aluminum housing with stainless steel hardware, tempered glass lens, silicone gaskets and a UV resistant, thermoset polyester powder coat finish. The interior wiring space is easily accessible with a side hinged front frame/lens assembly and offers durable performance with clean, architectural aesthetics. The TLED110P is completely sealed with silicone gaskets. There are a total of four (4) ½" threaded hubs, one located on either side, the top and the back of the housing allowing for the installation of switching/control accessories or the capability of wiring the TLED110P with surface mounted conduit.

Optics:

Our TLED110P series wallpack delivers exceptional light quality with available correlated color temperatures options of 3000K, 4000K, or 5000K, a CRI of ≥85 and a projected color shift of less than 1%. The TLED110P LED light engine is specifically designed to distribute light forward and to the sides, providing ideal wallpack distribution that maximizes fixture spacing while delivering light where it is needed in the most efficient way possible. Producing up to 3050 delivered lumens, the TLED110P has an L70 of 50,000 hours.

Electrical:

The TLED110P includes 0-10V dimming as a standard option with LEDs powered by constant current, high efficiency Class 2 LED driver with active power factor correction (0.90 typical), an IP66 rating, all around protection against over-voltage, over-temperature, short circuit conditions, and lightning. The TLED110P driver has a standard voltage sensing input of 120 ~ 277VAC 50/60Hz, a Class A EMI rating, complies with UL8750 safety regulations and with ANSI/IEEE C62.41 Class A Operation. The TLED110P is suitable for operation in -31°F to 104°F (-35°C to 40°C) ambient conditions.

Thermal Management:

Our LED light engine is mounted directly to a dedicated, custom designed LEDLITE*logic* thermal heat sink. The configuration of the heat sink is unique and has been sized to maximize the thermal dissipation of the traditional wallpack housing. This configuration optimizes the heat removal for the LEDs, which in turn, makes possible the high efficacy, lumen output and longevity of the TLED110P.

Environmentally Friendly Design:

TLED110P luminaires consume very little energy and provide long life in comparison to traditional lamp technologies. The TLED110P-66-VS consumes only 40W, however the light output can be conservatively compared to a 150W HID luminaire of similar design. The TLED110P provides a significant reduction in KW load and carbon emissions.

Installation:

The TLED110P series wallpack features a back box design that can be mounted to any vertical surface and is easily wired either to a recessed J-box or by using surface mounted conduit. Optional tamper-resistant hardware, wire guard, and polycarbonate guard are available for applications where there is a high rate of vandalism or theft, or in high traffic, public spaces.

Battery Back-Up (Option: BB):

TRACE*LITE's battery back-up option provides approximately 1400 lumens for 90 minutes in the event of a primary power failure. The battery back-up option includes a battery pack along with a charging/transfer device that keeps the battery pack charged during normal AC operation and transfers battery power to a portion of the LED modules when the device senses that the primary AC power has failed. Suitable for operation in 32°F to 104°F (0°C to 40°C) ambient conditions

Transient Protection System (Option: TP):

The LEDLITElogic optional transient protection device is designed to be used in conjunction with our LED drivers. The "-TP" option utilizes a 3-leaded device that protects Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE/ANSI C62.41.2 guidelines. The surge current rating of the "-TP" option is 10,000 amps.







Specs at a Glance*						
# of LEDs	42 LEDs	66 LEDs				
Wattage (w)	27	40				
Lumens (Im)	1,866	3,050				
Efficacy (LPW)	99	76				
Equivalency	70w HID	150w HID				
ССТ	3000K, 4000K, 5000K					
CRI	≥85					
Optics	Type II Very Short					
Input Voltage	120~277 Voltage Sensing					
Warranty	5 Years					
Certifications	ARRA					
Ambient Temp	-35°C to 40°C (-31°F to 104°F)					

* 5000K CCT tested

Photocontrol (Accessory: PC):

Optional field installed photocontrol provides dusk-till-dawn security. Input voltage must be specified to match fixture input voltage.

Testing & Compliance:

The reliability and performance of the TLED110P is evaluated in accordance with the parameters outlined and reported by LM-79 and LM-80 documents. Photometric data is tested to IESNA LM-79-08 standard by an independent testing laboratory. Lumen maintenance, or L70, a measure of long term reliability, is determined for the light source, which consists of the LED and PSB sub-assembly as installed in the luminaire, using LM-80 in-situ thermal and reliability data as provided by the LED manufacturer in accordance with DOE/EPA standards.

Warranty

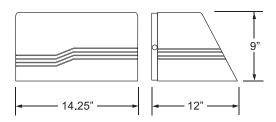
Any component that fails due to manufacturer's defect is guaranteed for 5 years. The warranty does not cover physical damage, abuse or acts of God. Manufacturer reserves the right to charge for such repairs if deemed necessary.

Fixture Performance

Part Number	Total System L70 Hours		3000K CCT		4000K CCT		5000K CCT	
Part Number	Watts	@ 25°C	Lumens (Im)	Efficacy (LPW)	Lumens (Im)	Efficacy (LPW)	Lumens (Im)	Efficacy (LPW)
TLED110P-42-VS	27W	50,000	1833	69	1850	68	1866	70
TLED110P-66-VS	40W	50,000	N/A	N/A	2906	68	3050	76

NOTE: Lumen maintenance and life (part of LM-80 data) are per published information from primary LED suppliers and is based on design operation at their specified thermal management and electrical design parameters.

Dimensions



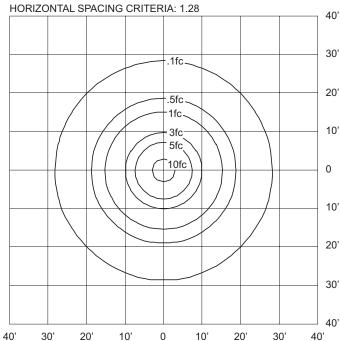
Approximate Weight: 16.5 lbs.

Sample Photometrics

TLED110P-66-VS-4K

IES: TYPE II VERY SHORT MOUNTING HEIGHT: 10 FEET

TILT: ZERO



Ordering Information

Example: TLED110P-42-VS-5K-TRH

Series	Number of LEDs	Input Voltage	CCT	Options (Factory Installed)
TLED110P	42 = 42 LEDs (27 Watts)	VS = 120~277VAC Voltage Sensing	3K ² = 3000K	BB = Battery Backup
	661 = 66 LEDs (40 Watts)		4K = 4000K	CC ³ = Custom Color
			5K = 5000K	SZXXX ⁴ = Single Line Side Fuse (120V or 277V)
Notes				TP = 10KVA Transient/Surge Protection
¹ Only available	e in 4K and 5K			TRH = Tamper Resistant Hardware
² Not available	with Battery Backup (BB)			
³ Consult facto	ry for specific part number and deta	iils		Accessories ⁵ (Field Installed)
⁴ Specify voltage	ge			PCU = 120-277VAC Photocontrol
⁵ Order as sep	arate line item			WG110 = Wire Guard







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Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES

[TEST] 33185

[TESTLAB] UNDERWRITERS LABORATORIES INC.

[ISSUEDATE] 7/ 8/2014

[MANUFAC] Barron Lighting Group

[LUMCAT] TLED110P-42-VS-5K

[LUMINAIRE] LED Medium Wallpack, clear glass lens

[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

Maximum Candela = 746.1 at 90 H 2.5 V

Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 70

Indoor Classification: Direct

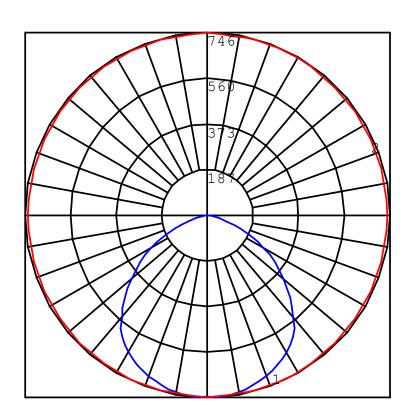
BUG Rating : B1-U0-G0

Polar Candela Curves:

Vertical Plane Through:
1) 90 - 270 Horizontal

Horizontal Cone Through:

2) 2.5 Vertical







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Photometric Report (Type C)

Filename: TLED110P-42-VS-5K.IES

[TEST] 33185

[TESTLAB] UNDERWRITERS LABORATORIES INC.

[ISSUEDATE] 7/ 8/2014

[MANUFAC] Barron Lighting Group

[LUMCAT] TLED110P-42-VS-5K

[LUMINAIRE] LED Medium Wallpack, clear glass lens

[LAMP] 42 LEDs. LUMINAIRE OUTPUT: 1866 Lms.

Maximum Candela = 746.1 at 90 H 2.5 V

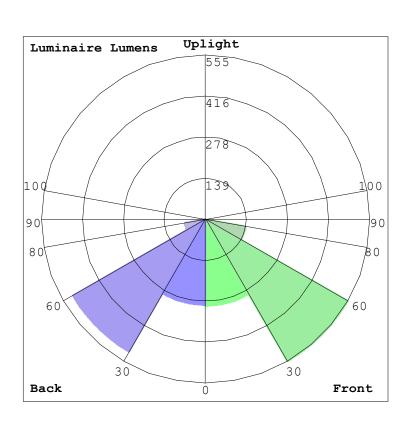
Classification:

Road Classification: Type VS, Very Short, N.A. (deprecated)

Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 70

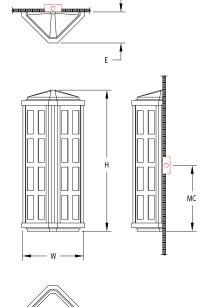
Indoor Classification: Direct
BUG Rating : B1-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	292.6	N.A.	15.7
FM (30-60)	555.0	N.A.	29.8
FH (60-80)	138.3	N.A.	7.4
FVH (80-90)	1.0	N.A.	0.1
BL (0-30)	289.6	N.A.	15.5
BM (30-60)	516.9	N.A.	27.7
BH (60-80)	71.3	N.A.	3.8
BVH (80-90)	0.6	N.A.	0.0
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1865.3	N.A.	100.0
BUG Rating	B1-U0-G0		









Notes

- FINISH: Finish is low VOC thermo-cure powdercoat paint. Specify three digit color suffix with "PT" finish options.
- HOUSING: Consists of heavy gauge extruded aluminum corner posts, solid cast aluminum end caps and laser-cut aluminum trim panels.
- MOUNTING: Fixture supplied with gasketed mounting plate, and visible hardware. Fixture requires additional support by wall anchors or studs attached to structural blocking provided by installing electrician. Standard octagonal junction box required.
- UL and C-UL listed for wet locations.
- Fluorescent and metal halide ballasts rated to 22-degree F
- All MH lamp options include integral electronic ballast.

Fixture Number

DE-215 13.25"W x 30"H x 6.5" Ext. DE-216 19.75"W x 45"H x 9.75" Ext.

Finish

Standard Painted Finishes (PT)

Panels

Standard Painted Finishes (PT) Raw Copper (CU)

Optional Bar Trim on R1 Panel

No bar trim on R1 panel (NA)

Brushed Stainless Steel (BS)

Powder coat paint (PP) Polished stainless steel (PS)

Includes integral wet location rated 120-277v 1-100% dimming driver compatible with 0-10v controls. All LEDs are 80+ CRI, 50,000 hr. L70. Wattage listed includes driver

LED Options	Lumens	Wattage
E23	1636 (initial)	23

Non-LED Lamps

3N60: (3) 60 watt incandescent 2F40: (2) 40 watt compact fluorescent 1MH70: (1) 70 watt ED-17 metal halide

DE-216

LED Options	Lumens	Wattage
E34	2452 (initial)	34
E34/1QP75		

Non-LED Lamps

4N60: (4) 60 watt incandescent

2F40: (2) 40 watt compact fluorescent

2F40 / 1QP75: (2) 40 watt compact fluorescent & (1) 75 watt PAR30 halogen med. base

LED Dimming

D0: 0-10v

1MH100: (1) 100 watt ED-17 metal halide

LED Color Temp

27: 2700K

30: 3000K

35: 3500K

40: 4000K

Voltage Options

120: 120 volt

277: 277 volt (Not available with incandescent lamp options)

Diffuser Options

WH: Opal White Acrylic

FX: Faux Alabaster Acrylic

Panel Options













R1 **Fixture Options**

FU: Fusing

PC: Photo Cell

TL: Top Lens



Photometric Report (Type C)

Filename: W2 DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24 LE

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING

DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Wast Light Ratio: 0.50

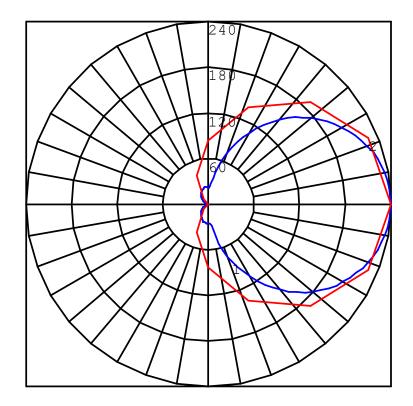
Luminaire Efficacy Rating (LER): 47 Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:
2) 92.5 Vertical





Photometric Report (Type C)

Filename: W2 DE E22.ies

[TEST] ITL82813

[TESTLAB] INDEPENDENT TESTING LABORATORIES, INC.

[MANUFAC] MANNING LIGHTING INC

[LUMCAT] LBI

[LUMINAIRE] FABRICATED WHITE PAINTED METAL WALL MOUNTING PLATE, FORMED WHITE PAINTED METAL CIRCUIT

BOARD MOUNT, 2 WHITE CIRCUIT BOARDS MOUNTED OBLIQUELY ACROSS CIRCUIT BOARD MOUNT EACH WITH 24 LE

[LAMP] FORTY-EIGHT WHITE MULTI-CHIP LIGHT EMITTING

DIODES (LEDS), AIMED AT THE HORIZON.

Maximum Candela = 240.349995017052 at 0 H 92.5 V

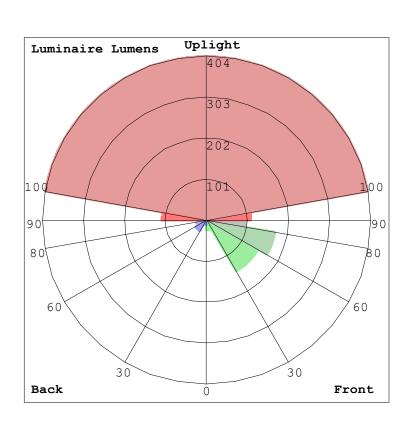
Classification:

Road Classification: N.A., N.A., N.A. (deprecated)

Upward Waste Light Ratio: 0.50 Luminaire Efficacy Rating (LER): 47 Indoor Classification: General Diffuse

BUG Rating : B0-U3-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	25.1	N.A.	2.4
FM (30-60)	146.1	N.A.	14.1
FH (60-80)	171.6	N.A.	16.6
FVH (80-90)	97.2	N.A.	9.4
BL (0-30)	11.2	N.A.	1.1
BM (30-60)	30.9	N.A.	3.0
BH (60-80)	24.6	N.A.	2.4
BVH (80-90)	12.2	N.A.	1.2
UL (90-100)	109.9	N.A.	10.6
UH (100-180)	404.1	N.A.	39.1
Total	1032.9	N.A.	100.0
BUG Rating	B0-U3-G1		





MARCELLA Outdoor Light

part # IOL322BK

CANARM LTD.

PO Box 367, 2157 Parkedale Avenue, Brockville, Ontario K6V5V6 Tel: 613-342-5424 | Fax: 1-800-263-4598

> 2555 Rue Bernard Lefebvre, Laval, Quebec H7C 0A5 Tel: 1-450-665-2535 | Fax: 1-450-665-0910

808 Commerce Park Drive, Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 | Fax: 1-800-263-4598

www.canarm.com

General

Size of fixture: 9" W x 7 1/4" H x 10" D

Finish: matte black Glass: glass diffuser

Glass size: 8 1/2" diameter Canopy size: 5" diameter

Lamping: 1 x 60W A bulbs (not included)

Mounting: wall mount

Packaging

Colour box: 11.82" x 10.63" x 9.06" (300 x 270 x 230mm)

Colour box weight: 3.31 lbs

Master box: 22.05" x 12.21" x 18.90" (560 x 310 x 480mm)

Pieces per master: 4

Master box weight: 15.43 lbs



Warranty & Safety Standards

Warranty - one year

cCSAus

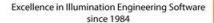
Suitable for wet locations

Prepared for
Contact
D /
Date
Presented by
- · · · · · · · · · · · · · · · · · · ·
Remarks



WARNING: The use of this product can expose you to chemicals including Cadmium, which is known to the State of California to cause cancer, and Lead, which is known to the State of California to cause birth defects and/or other reproductive harm. For more information go to www.P65Warnings.ca.gov.







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Photometric Report (Type C)

Filename: W3 11328494-1260980.ies

[TEST] 1260980

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6/23/2016 [MANUFAC] Baselite Corp [LUMCAT] W516/ 12W LED/ 5K

[LUMINAIRE] Black aluminum hood, white reflector, and

frosted lens

[LAMP] One (1) white LED

[BALLAST] Inventronics LUC-012S035DSM

Maximum Candela = 381.4 at 0 H .5 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Wast Light Ratio: 0.00

Luminaire Efficacy Rating (LER): 111

Indoor Classification: Direct

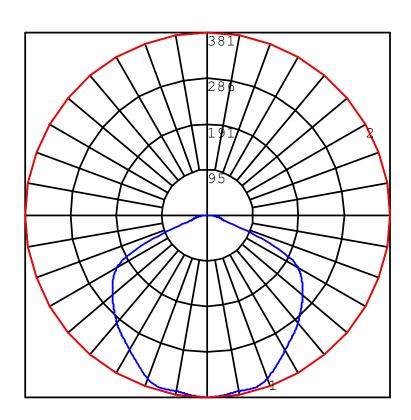
BUG Rating : B1-U0-G0

Polar Candela Curves:

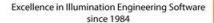
Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0.5 Vertical









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Photometric Report (Type C)

Filename: W3 11328494-1260980.ies

[TEST] 1260980

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6/23/2016
[MANUFAC] Baselite Corp
[LUMCAT] W516/ 12W LED/ 5K

[LUMINAIRE] Black aluminum hood, white reflector, and

frosted lens

[LAMP] One (1) white LED

[BALLAST] Inventronics LUC-012S035DSM

Maximum Candela = 381.4 at 0 H .5 V

Classification:

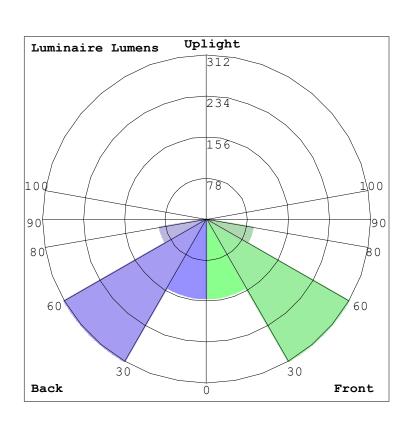
Road Classification: Type V, Very Short, N.A. (deprecated)

Upward Waste Light Ratio: 0.00 Luminaire Efficacy Rating (LER): 111

Indoor Classification: Direct

BUG Rating : B1-U0-G0

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	150.3	N.A.	13.5
FM (30-60)	312.1	N.A.	28.0
FH (60-80)	89.6	N.A.	8.0
FVH (80-90)	5.2	N.A.	0.5
BL (0-30)	150.3	N.A.	13.5
BM (30-60)	312.1	N.A.	28.0
BH (60-80)	89.6	N.A.	8.0
BVH (80-90)	5.2	N.A.	0.5
UL (90-100)	0.0	N.A.	0.0
UH (100-180)	0.0	N.A.	0.0
Total	1114.4	N.A.	100.0
BUG Rating	B1-U0-G0		



EW53908

SPECIFICATION SHEET

DATE TYPE

PROJECT

Sophisticated LED technology meets modern outdoor wall sconces

- Square down light with stone texture
- Black, grey or espresso metal details
- Dimmable with ELV dimmer (Not included)
- 120V

 Color Temp
 3000K

 CRI (Ra)
 >80

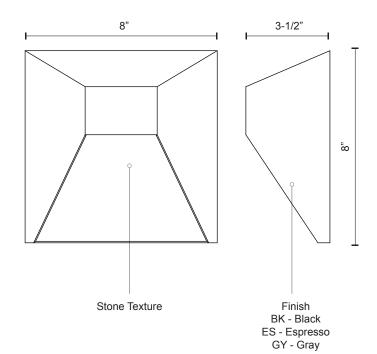
 Dimming
 100% - 10%

 Rated Life
 50,000 hours

Distribution	Voltage	Watt	LED Lumens	Delivered Lumens	Finish(es)
Down	120V	10W	600lm*	169lm*	BK / ES / GY



EW53908-BK



*Subject to testing confirmation





EW53908-BK

EW53908-ES

EW53908-GY



19054 28th Avenue Surrey, BC, Canada V3Z 6M3 T: 604 538 7162 F: 604 538 7196 W: Kuzcolighting.com







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Photometric Report (Type C)

Filename: W4_EW53908.IES
[TEST] 260_16
[TESTLAB] Kuzco Lighting
[ISSUEDATE] 2016-01-28 12:30:48
[MANUFAC] Kuzco Lighting
[LUMCAT] EW53908
[LUMINAIRE] Wall Mounted
[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)
[LAMP] 120V LED

Maximum Candela = 191.16 at 190 H 85 V

Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)

Upward Wast Light Ratio: 0.18

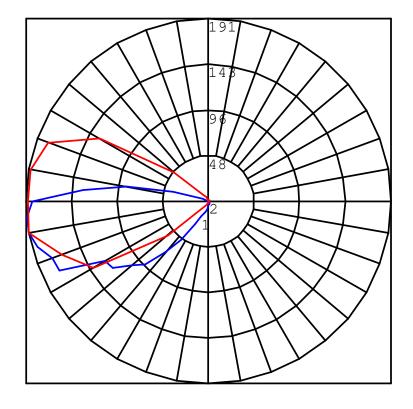
Luminaire Efficacy Rating (LER): 27 Indoor Classification: Semi-Direct

BUG Rating : B0-U2-G1

Polar Candela Curves:

Vertical Plane Through:
1) 190 - 10 Horizontal

Horizontal Cone Through:
2) 85 Vertical







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Photometric Report (Type C)

Filename: W4 EW53908.IES

[TEST] 260 16

[TESTLAB] Kuzco Lighting

[ISSUEDATE] 2016-01-28 12:30:48

[MANUFAC] Kuzco Lighting

[LUMCAT] EW53908

[LUMINAIRE] Wall Mounted

[LAMPCAT] DIS 01-600-830-120-S1 (Shielded)

[LAMP] 120V LED

Maximum Candela = 191.16 at 190 H 85 V

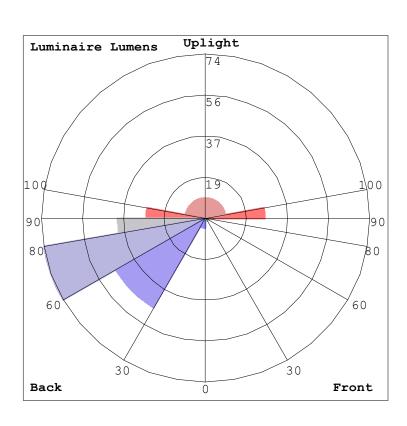
Classification:

Road Classification: N.A., N.A., Non-Cutoff (deprecated)

Upward Waste Light Ratio: 0.18 Luminaire Efficacy Rating (LER): 27 Indoor Classification: Semi-Direct

BUG Rating : B0-U2-G1

LCS Zone	Lumens	%Lamp	%Lum
FL (0-30)	1.1	0.5	0.5
FM (30-60)	1.4	0.7	0.7
FH (60-80)	0.7	0.3	0.3
FVH (80-90)	0.3	0.1	0.1
BL (0-30)	4.3	2.1	2.1
BM (30-60)	46.7	22.8	22.9
BH (60-80)	74.3	36.2	36.4
BVH (80-90)	39.7	19.4	19.4
UL (90-100)	26.7	13.0	13.1
UH (100-180)	9.0	4.4	4.4
Total	204.2	99.5	100.0
BUG Rating	B0-U2-G1		





Exterior LED Cylinder Lighting To The Next Level

Design & Construction: FC Lighting has developed the latest durable, high ouptut exterior cylinder line on the market. Engineered with a revolutionary heat dissipation component, these fixtures come available with style, optics choices, mounting options and accessories that create limitless possibilities for any lighting specifiers dream application. These Cylinders provide an unmatched flexibility for specifying powerful lighting with an equally sophisticated style.

Style & Accessories: Add to your dream specification with an Angle Cut Visor or Up / Down Lighting solution. With design flexibility only limited by the imagination, specifiers can create an environment with contemporary style and mood enhancing control features that complement any application. FCC Series Cylinders come in 4", 6", 8" and 10" diameters that are available from 10" up to 20" long.

Output and Optics Flexibility:

American engineered performance features create high lumen output with a high efficacy. The engineers at FC Lighting have designed optics options that hand over control of beam and field angle effects. *FCC Series Cylinders* are the ultimate solution that allow designers the ability to customize lighting for their clients specific needs.

Power Dimming & EMR Flexibility:

The latest development in the *FCC Series Cylinder* line created the widest variety of integral power, dimming and control solutions possible. EMR and wireless controls all compatible with Dali, DMX, ELV and 0-10% dimming protocols. Lutron Ecosystem® compatibility and eldoLED drivers are also available. *FCC Series Cylinders* are the most comprehensive cylinder lighting solutions available on the market today!



Specification Sheet



Date:	Approved:
Туре:	
Fixture:	
Project:	

FCC400 Series Cylinders are the most versatile high output exterior cylinders in the market. These Cylinders are designed with outdoor applications in mind. Dry, damp or wet conditions and developed with the highest variety of mounting capabilities, power and output levels, optical distributions, and many featured options.

SPECIFICATIONS

PHYSICAL		
beam spread	10° 15° 25° 35° 40° 60° 72° 90°	
diameter/height	diameter: 4.5" height: 9.92" 13.92" 21.86"	
weight	8 lb	
housing	heavy-walled, extruded aluminum housing with die-cast lens ring and cap with stainless steel hardware	
lens	IK05 impact compliant, clear anti-glare tempered glass	
mounting	mounts directly to standard recessed junction box additional holes allow unit to be attached directly to mounting surface	
ingress protection	ion continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations	
vibration resistance	ration resistance compliant with 1G ANSI C136.31, Seismic rated AC-156	
finish	7-stage chemical stage pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat	

PERFORMANCE			
color temperature	rature 2700K 3000K 3500K 4000K 5700K		
delivered lumens	3000 Lm max - Selectable in 500 Lm increments		
lifetime	> 70,000 hours / L70 or better		
color consistency	2-step MacAdam Ellipse 83 CRI standard optional 93 and 97 CRI		
temperature	operating: -4°F to 104°F (-20°C to 40°C) start up: -4°F to 104°F (-20°C to 40°C) storage: -40°F to 176°F (-40°C to 80°C)		
warranty	5 year limited warranty (refer to website for details)		

NON-LED			
CFL	13Q, 18T, 26T socket: PL: four pin plug-in type compact fluorescent lamp holder (lamp by others)		
ballast	fluorescent electronic, UL listed ballast standard		
HID	20W MH G12, 30W MH G12 socket: G12 base porcelain socket (lamp by others)		
ballast	electronic ballast standard: ballast has a manufacturer issued 5 year warranty		

ELECTRICAL	ECTRICAL CONTROL OF THE PROPERTY OF THE PROPER		
input voltage	Universal 120–277V AC standard 347V optional		
power supply	integral Class II, electronic high-power factor > 94% EldoLED & Lutron optional		
certification	CEC Title 24 - JA8 Compliant		
standards	ETL / cETL or CE, tested to UL 1598 and UL 8750 standards / UL-Class I / IES LM-79 / LM-80 / FCC Part 15		
power consumption	up to 35W max @ 120V		
dimmina interfece	standard: LED dimming: 0-10V, 1%		
dimming interface	optional: ELV TRIAC dim to off DMX DALI		

Expanded Disclaimer: Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting and Solid State Luminaires reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions. FCC Series Cylinder Lights are engineered and produced in our Illinois manufacturing facility.



Specification Sheet

FCC400 Series

ORDERING INFORMATION FCC400 model height mounting voltage source | CCT CRI lumen output finish optics UNV 120V-277V LED 27K 2700K CR83 83 CRI FCC400 Ø4.25" 10 SF BK black Up Surface Down Down 12 WM Wall 3K 3000K CR93 Standard 500 Lm (5W) 5L BZ bronze D 10 10° Narrow Spot U 10 5L 14 PD Pendant 35K 3500K CR93 93 CRI **10L** 1000 Lm (10W) 10L WH white D 10° - 1500 Lm max - U 10° 16 CM Cord No 97 CRI on 35K CR97 15L 1500 Lm (15W) 15L SL silver D 15 15° Spot U 15 D 15° - 2500 Lm max - U 15° CC custom color 18 SM Slope 4K 4000K **20L** 2000 Lm (21W) 20L 20 57K 5700K **25L** 2500 Lm (27W) 25L D 25 25° Mid-Spot U 25 No 97 CRI on 57K D 30 30° Narrow Flood U 30 Total fixture lumens cannot excede 3000 Lm - additional R Red D 50 50° Flood U 50 driver required for unequal G Green D 90 90° Flat U 90 output selections. 3000 Lm В only available in one direction. Blue **30L** 3000 Lm (34W) Contact the Factory for Non-LED source options 83 CRI only on 30L

Standard Driver Included: LED dimming: 0-10V, 1%

Driver Options (all drivers are 120V-277V unless otherwise specified)

MATCH SELECTION FROM CCT COLUMN ABOVE TO ONE CHOICE OF DRIVER FROM TABLE BELOW - review Driver Table on Pg 10 for driver specifications

STANDARD CCT (UNV) DRIVER OPTIONS	LUTRON DRIVER OPTIONS	eldoLED DRIVER OPTIONS	STANDARD CCT (347V) DRIVER OPTIONS
ET ELV or TRIAC	L2 Lutron 1%, 2-Wire, Forward Phase	E1 eldoLED 0-10V, Dim-to-Off	A3 347V 0-10V, Dim to 10%
LD 0-10V Dimming (1%)	L5 Lutron Ecosystem, 0.1%, Soft-on, Dim-to-Off	E2 eldoLED DALI, Dim-to-Off	
DMX DMX Dim to 0.1%,		E5 <i>eldoLED</i> 0-10, Dim to 1%	
DL DALI Dim to 0.1%,		E6 eldoLED DALI, Dim to 1%	
		E7 eldoLED DMX, Dim-to-Off	

Options (choose one per fixture)

SF	Soft Field (solite)	BBU	Battery Backup (Remote)
CPLX	Custom Length Pendant (X=inches)		
CBLX	Custom Length Cable (X=inches)		
OPC	OPC Opal Polycarbonate Lens		
CV	Cut-Off Visor		





PHYSICAL

DIMENSIONS	
diameter/height	diameter: 6.3" height: 6" 8" 10" 12" 14" 16" 18" 20"
weight	5-10 lb (length dependent)

mounting	twist-lock surface mount twis	t_lack nandant wall maunt	I slope mount I twis	ist-lock cord L surface m	ount conduit adapter voke
IIIUUIIIU	LWIST-IOCK SUITACE HIDUHL I LWIS	t-lock bendant wall mount	I Slope mount I twis	ist-iock cord i surrace iii	Duffi Cuffuult auablef i vuke

PRODUCT DIMENSIONS CUT OFF VISOR diameter Ø 4.5" CV - cut-off visor 3.75" D height 9.92" | 13.92" | 21.86" total fixture height H + 3.75" D Ø 4.5 in Ø 4.5 in 3.75 in H in Ø 4.5 in Ø 4.5 in H in 3.75 in

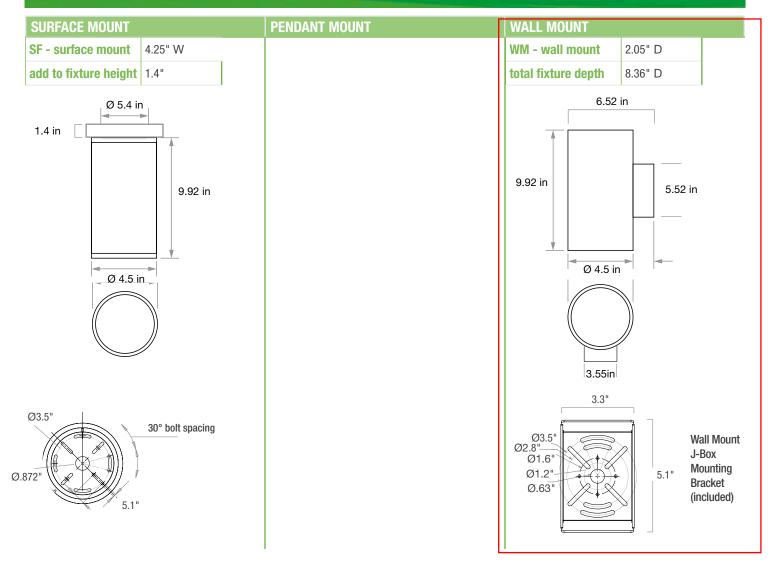
CONSTRUCTION & FINISH		
housing	no visible seams or fasteners, marine grade, corrosion resistant, solid aluminum extrusion, die-cast aluminum components	
lens	IK05 impact compliant, clear anti-glare tempered glass	
finish	7-stage UV stable polyester powder coat	







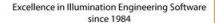
MOUNTING OPTIONS













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Photometric Report (Type C)

Filename: W5_FCC410W-D-18.IES

[TEST] TypeC Intensity
[TESTLAB] FC/SSL Lab
[MANUFAC] FC/SSL Lighting

[LUMINAIRE] 4†Round Wall, Pendant or Surface Mounted

Die-Cast Aluminum Cylinder.

[LAMP] LED

Maximum Candela = 4929.4 at 0 H 0 V

Classification:

Road Classification: Type V, Very Short, N.A. (deprecated)

Luminaire Efficacy Rating (LER): 183

Indoor Classification: Direct

BUG Rating : B0-U2-G1

Polar Candela Curves:

Vertical Plane Through:
1) 0 - 180 Horizontal

Horizontal Cone Through:

2) 0 Vertical

