

Madison Water Utility – Paterson Operations Center Additions and Remodeling at 110 South Paterson Street

Project Narrative

The proposed project development is to provide a safer and more appropriate use of the existing Madison Water Utility Paterson Operations Center. Currently the site and structures are used for administrative offices, workshops and staging of work crews and maintenance of Water Utility construction vehicles.

The project includes demolition of the existing vehicle maintenance bays and construction of new vehicle maintenance building and new construction for employee support spaces and administrative areas 22,700 square feet and remodeling of existing workshop space 7,100 square feet and site development proposes to, re-paving the existing parking lot, a new fence line and site lighting and a new landscape terrace.

To develop the vocabulary for the materials storage building and site development the design team has inspiration from the surrounding area, as depicted in the Context Board and Inspiration Board. The vocabulary for construction on the near east side of the Madison Isthmus is evolving from a predominantly industrial activity to a mixed use of residential, commercial, recreational and industrial. The Madison Water Utilities continuing activities at this site must now reflect development more sympathetic to surrounding activities while maintaining work functions.

The design solution as proposed encloses the less desirable visual elements of the site into a materials storage building constructed of brick and metal panel exterior walls, steel framed roof structure and single membrane roofing and clear and translucent glass areas, used for daylight integration and visual interest. The building massing and glass areas are arranged to create a visual interest from the street and provide for an identifiable main building entrance. The yard will be re-surfaced with bituminous paving and the lot will be surrounded by new fencing, similar to Central Park, and a new landscaped terrace that integrates plant materials with concrete site knee walls that border the property and will also provide points of interest by containing elements of the Water Utilities work product, such as pipes and valves. The site will be lighted by new LED fixtures, designed for night sky and light penetration cut off. Also, included is a vegetated roof system over the vehicle maintenance work bays to increase the amount of pervious areas for the site..

The Proposed design solution is based on a functional and aesthetic integration that starts the discussion on the maintenance of industrial activities into an evolving neighborhood dynamic.



URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

This form may also be completed online at:
<http://www.cityofmadison.com/planning/documents/UDCApplication.pdf>

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: <u>1/21/15 - revisions 3/4/15</u>	<input type="checkbox"/> Informational Presentation
UDC Meeting Date: <u>3/11/15</u>	<input checked="" type="checkbox"/> Initial Approval
Combined Schedule Plan Commission Date (if applicable): _____	<input type="checkbox"/> Final Approval

1. Project Address: 110 S. Paterson St.
Project Title (if any): Madison Water Utility - Paterson Operations Center

2. This is an application for (Check all that apply to this UDC application):

New Development Alteration to an Existing or Previously-Approved Development

A. Project Type:

- Project in an Urban Design District* (public hearing-\$300 fee)
- Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) (\$150 fee, Minor Exterior Alterations)
- Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District
- Planned Development (PD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Planned Residential Complex

AGENDA ITEM #
LEGISTAR # <u>3951</u>
ALD. DIST. <u>6</u>

CITY OF MADISON
11:27 a.m.
MAR 4 2015
Planning & Community
& Economic Development

B. Signage:

- Comprehensive Design Review* (public hearing-\$300 fee)
- Street Graphics Variance* (public hearing-\$300 fee)
- Signage Exception(s) in an Urban Design District (public hearing-\$300 fee)

C. Other:

Please specify: City Property

3. Applicant, Agent & Property Owner Information:

Applicant Name: Madison Water Utility Company: _____
 Street Address: 119 E. Olin Ave. City/State: Madison, WI Zip: 53713
 Telephone: (608) 266-4651 Fax: (608) 266-4426 Email: _____

Project Contact Person: Al Larson Company: _____
 Street Address: See Above City/State: _____ Zip: _____
 Telephone: () _____ Fax: () _____ Email: ALarson@MadisonWater.org

Project Owner (if not applicant): _____
 Street Address: _____ City/State: _____ Zip: _____
 Telephone: () _____ Fax: () _____ Email: _____

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with _____ on _____.
(name of staff person) (date of meeting)

B. 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: Madison Water Utility Relationship to Property: owner
 Authorized Signature: [Signature] Date: 3-4-15

Luminaire Schedule Cut Sheets

For

Madison Water Utility

**Paterson Street Operations Center –
Urban Design Commission**

4 March 2015

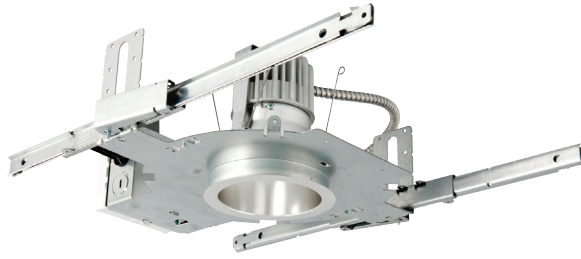
Prepared by:



**Mead
& Hunt**



Luminaire Type:
Catalog Number
(autopopulated):



Gotham Architectural Downlighting
LED Downlights

**4" Evo®
Downlight**

Solid-State Lighting



FEATURES

OPTICAL SYSTEM

- Self-flanged semi-specular, matte-diffuse or specular lower reflector
- Patented Bounding Ray™ optical design (U.S. Patent No. 5,800,050)
- 45° cutoff to source and source image
- Top-down flash characteristic

MECHANICAL SYSTEM

- 16-gauge galvanized steel construction; maximum 1-1/2" ceiling thickness
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment
- Toolless adjustments post installation
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C
- Light engine and driver accessible through aperture

ELECTRICAL SYSTEM

- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours based on IESNA LM-79-2008
- 120-277VAC, 50/60hz power supply with 0-10V dimming (10-100%)
- Overload and short circuit protected
- LEDs tested under LM80

LISTINGS

- Fixtures are CSA certified to meet US and Canadian standards; wet location, covered ceiling

WARRANTY

- 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

ORDERING INFORMATION

EXAMPLE: EVO 35/10 4AR 120 AZ10

Series	Color temperature	Nominal lumen values	Aperture/Trim color	Distribution	Finish	Voltage
EVO	27/ 2700 K	06 600 lumens	4AR Clear	(blank) 1.0 s/mh	(blank) Semi-specular	120
	30/ 3000 K	10 1000 lumens	4PR Pewter	MD Medium (0.8 s/mh)	LD Matte diffuse	277
	35/ 3500 K	14 1400 lumens	4WTR Wheat	WD Wide (1.5 s/mh)	LS Specular	347 ²
	41/ 4100 K	18 1800 lumens	4GR Gold			
		20 2000 lumens	4WR ¹ White			
			4BR ¹ Black			

Driver	Options
AZ10³ Philips Xitanium 0-10V dimming driver. Minimum dimming level 10%	SF Single fuse
EZB eldoLED SOLOdrive 0-10V dimming driver. Minimum dimming level <1%. 120V or 277V	NPP16D nLight® network relay pack with 0-10V dimming. Refer to TN-602 .
EDAB eldoLED SOLOdrive DALI dimming driver. Minimum dimming level <1%. 120V or 277V	NPP16D ER⁶ nLight® network relay pack with 0-10V dimming for emergency circuit operation. Refer to TN-602 .
EDXB eldoLED POWERdrive DMX with RDM (remote device management). Minimum dimming level <1%. Includes termination resistor. 120V or 277V	NPS80EZ nLight® dimming pack controls 0-10V eldoLED drivers.
ECOS2^{3,4,5} Lutron® Hi-Lume® 2-wire forward-phase dimming driver. Minimum dimming level 1%	NPS80EZ ER⁶ nLight® dimming pack controls 0-10V eldoLED drivers. ER controls fixtures on emergency circuit.
ECOS3^{3,4} Lutron® Hi-Lume® 3-wire or EcoSystem® dimming driver. Minimum dimming level 1%	TRW⁷ White painted flange
	TRBL⁸ Black painted flange
	EL⁹ Emergency battery pack with integral test switch
	ELR⁹ Emergency battery pack with remote test switch
	CR190 High CRI (90+)
	CP¹⁰ Chicago plenum
	BGTD Bodine generator transfer device
	RRL RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature.

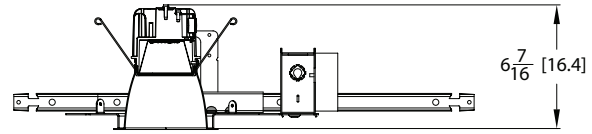
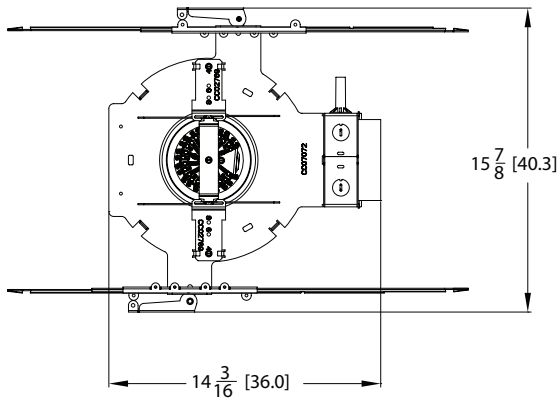
ACCESSORIES order as separate catalog numbers (shipped separately)

SCA4	Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D. Refer to TECH-190 .
CTA4-8 YK	Ceiling thickness adapter (extends mounting frame to accommodate ceiling thickness up to 2").
ISD BC	0-10V wallbox dimmer. Refer to ISD-BC .



DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.



Aperture: 4-5/16 (11)
 Ceiling Opening: 5-1/8 (13)
 Overlap Trim: 5-7/16 (13.8)

ELECTRICAL

WATTAGE CONSUMPTION MATRIX		
LUMENS	WATTAGE	LUMENS per WATT
600	16	49
1000	21	51
1400	26	55
1800	29	58
2000	31	65

AVAILABILITY/COMPATIBILITY -- INITIAL LUMENS				
PRODUCT	LED		INITIAL LUMENS	
	LUMENS	WATTS	EL/ELR	ELRHL
EVO 4"	600	18	363	N/A
EVO 4"	1000	22	379	N/A
EVO 4"	1400	30	702	N/A
EVO 4"	1800	38	731	N/A

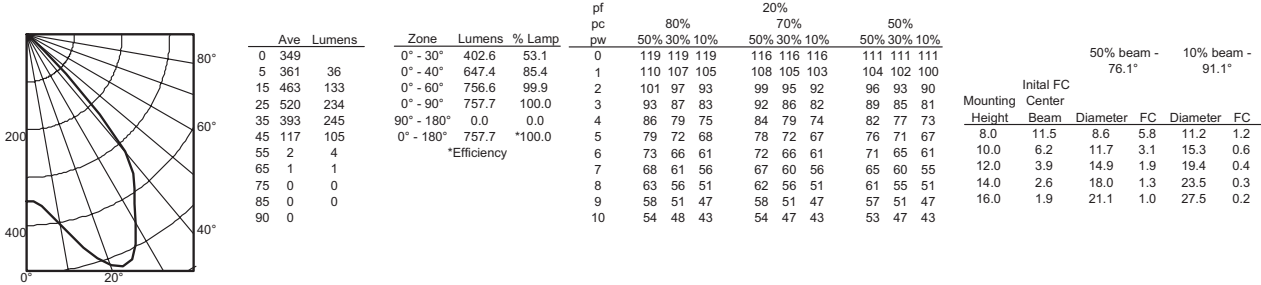
nLight® Control Accessories:			
<i>Order as separate catalog number. Visit www.sensorswitch.com/nLight for complete listing of nLight controls.</i>			
WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model number	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
On/Off & Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model number
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

NOTES

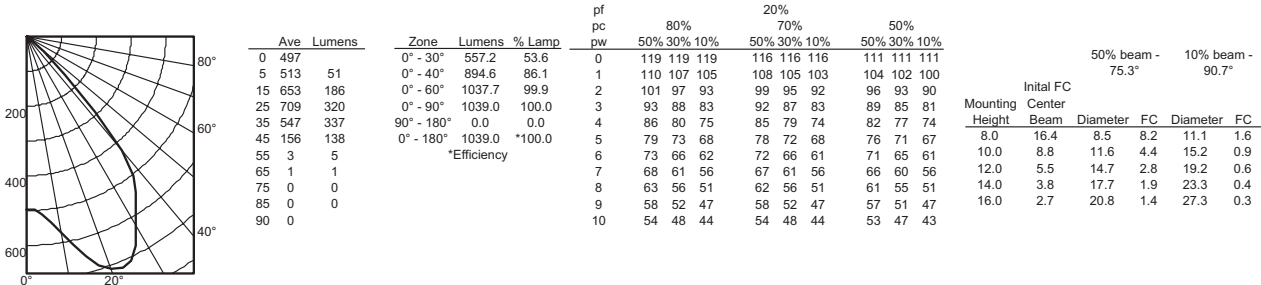
ORDERING NOTES	
1. Not available with finishes.	7. Not available with white reflector.
2. Not valid with emergency options, i.e., EL and ELR.	8. Not available with black reflector
3. Refer to TECH-240 for compatible dimmers.	9. For dimensional changes, refer to TECH-140 . Access above ceiling required.
4. Not available with nLight® option.	Not available with CP option. Specify 120V or 277V. Not available with 347V.
5. 120V only.	10. Not available with EL or ELR options.
6. For use with generator supply EM power. Will require an emergency hot feed and normal hot feed.	

Distribution Curve Distribution Data Output Data Coefficient of Utilization Illuminance: Single Luminaire 30" Above Floor

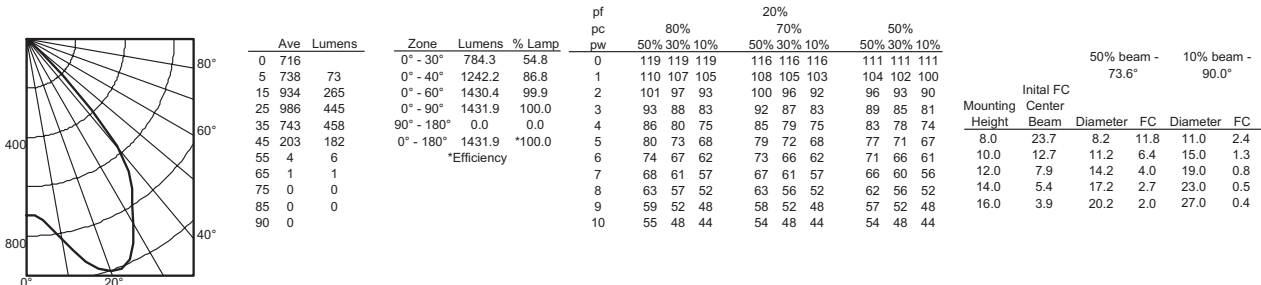
EVO 35/6 4AR LS INPUT WATTS: 15.6, DELIVERED LUMENS: 757.7, LM/W=48.6, 1.6 S/MH, TEST NO. LTL21260



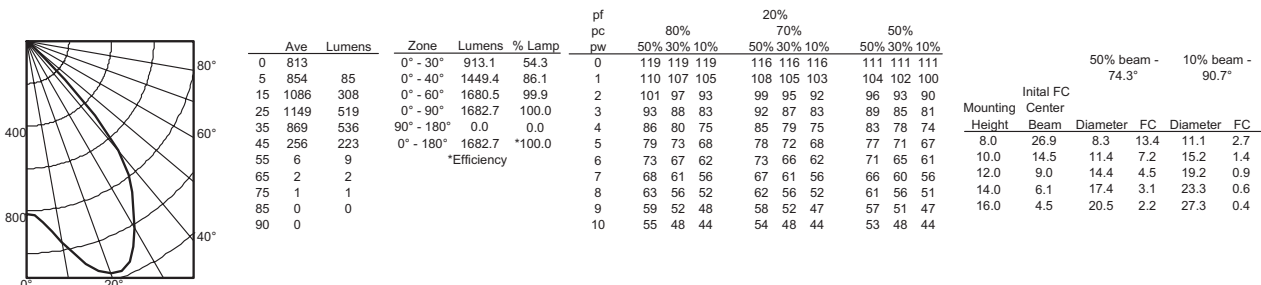
EVO 35/10 4AR LS INPUT WATTS: 20.6, DELIVERED LUMENS: 1039.0, LM/W=50.4, 1.5 S/MH, TEST NO. LTL21209



EVO 35/14 4AR LS INPUT WATTS: 26.2, DELIVERED LUMENS: 1431.9, LM/W=54.7, 1.5 S/MH, TEST NO. LTL21213



EVO 35/18 4AR LS INPUT WATTS: 29.0, DELIVERED LUMENS: 1682.7, LM/W=58.0, 1.5 S/MH, TEST NO. LTL21149



PHOTOMETRY NOTES

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- Actual performance may differ as a result of end-user environment and application.
- Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%.
- CRI: 83 typical.
- Consult factory or IES file for microgroove baffle, black cone or other photometric reports.



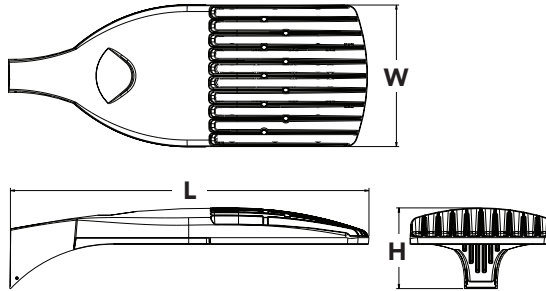
D-Series Size 1 LED Area Luminaire



d^{series}

Specifications

EPA:	1.2 ft ² (0.11 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



Catalog Number

Notes

Type **TYPE OA1**

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

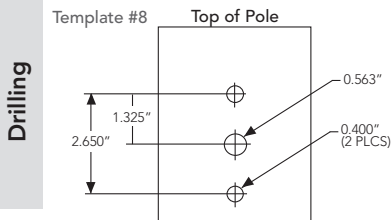
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 – 400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Control options	Other options	Finish (required)
DSX1 LED	Forward optics	530 530 mA	30K 3000 K (80 CRI min.)	T1S Type I short	MVOLT ³	Shipped included	Shipped installed	Shipped installed	DDBXD Dark bronze
	30C 30 LEDs (one engine)	700 700 mA	40K 4000 K (70 CRI min.)	T2S Type II short	120 ³	SPA Square pole mounting	PER NEMA twist-lock receptacle only (no controls) ⁷	HS House-side shield ¹⁴	DBLXD Black
	40C 40 LEDs (two engines)	1000 1000 mA (1 A)	50K 5000 K (70 CRI)	T2M Type II medium	208 ³	RPA Round pole mounting	DMG 0-10V dimming driver (no controls) ⁹	WTB Utility terminal block ¹⁵	DNAXD Natural aluminum
	60C 60 LEDs (two engines)		AMBPC Amber phosphor converted ²	T3S Type III short	240 ³	WBA Wall bracket	DCR Dimmable and controllable via ROAM [®] (no controls) ⁹	SF Single fuse (120, 277, 347V) ¹⁶	DWHXD White
	Rotated optics¹			T3M Type III medium	277 ³	SPUMBA Square pole universal mounting adaptor ⁵	DS Dual switching ^{10,11}	DF Double fuse (208, 240, 480V) ¹⁶	DDBTXD Textured dark bronze
	60C 60 LEDs (two engines)			T4M Type IV medium	347 ⁴	RPUMBA Round pole universal mounting adaptor ⁵	PIR Motion sensor, 8-15' mounting height ¹²	DF Double fuse (208, 240, 480V) ¹⁶	DBLBXD Textured black
				TFTM Forward throw medium	480 ⁴	Shipped separately⁶	PIRH Motion sensor, 15-30' mounting height ¹²	L90 Left rotated optics ¹⁷	DNATXD Textured natural aluminum
				T5VS Type V very short		KMA8 Mast arm mounting bracket adaptor (specify finish)	BL30 Bi-level switched dimming, 30% ^{11,13}	R90 Right rotated optics ¹⁷	DWHGXD Textured white
				T5S Type V short			BL50 Bi-level switched dimming, 50% ^{11,13}		
				T5M Type V medium					
				T5W Type V wide					



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS Single unit	DM29AS 2 at 90°*
DM28AS 2 at 180°	DM39AS 3 at 90°*
DM49AS 4 at 90°*	DM32AS 3 at 120°**

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's **POLES CENTRAL** to see our wide selection of poles, accessories and educational tools.

*Round pole top must be 3.25" O.D. minimum.
**For round pole mounting (RPA) only.

Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

NOTES

- Rotated optics only available with 60C.
- AMBPC only available with 530mA or 700mA.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (30C 530, or 60C 530 DS). Not available with DCR, BL30 or BL50.
- Available as a separate combination accessory: PUMBA (finish) U.
- Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.
- DMG option for 347v or 480v requires 1000mA
- Specifies a ROAM[®] enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional hardware and services required for ROAM[®] deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with BL30, BL50, DS, PIR or PIRH.
- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR, or PIRH.
- Requires an additional switched circuit.
- PIR specifies the **SensorSwitch SBGR-10-ODP** control; PIRH specifies the **SensorSwitch SBGR-6-ODP** control; see **Motion Sensor Guide** for details. Dimming driver standard. Not available with DS or DCR.
- Dimming driver standard. MVOLT only. Not available with DCR.
- Also available as a separate accessory; see Accessories information.
- WTB not available with DS.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available with 60 LEDs (60C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Control.

Drilling

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁸
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁸
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁸
SC U	Shorting cap ¹⁸
DSX1HS 30C U	House-side shield for 30 LED unit
DSX1HS 40C U	House-side shield for 40 LED unit
DSX1HS 60C U	House-side shield for 60 LED unit
PUMBA DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁶

For more control options, visit **DTL** and **ROAM** online.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 80 minimum CRI)					40K (4000 K, 70 minimum CRI)					50K (5000 K, 70 CRI)																																																																																																																																																																																																						
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW																																																																																																																																																																																																		
				30C (30 LEDs) <tr> <td rowspan="20">30C (30 LEDs)</td> <td rowspan="10">700 mA</td> <td rowspan="10">68 W</td> <td>T1S</td><td>5,290</td><td>1</td><td>0</td><td>1</td><td>78</td><td>6,524</td><td>2</td><td>0</td><td>2</td><td>96</td><td>7,053</td><td>2</td><td>0</td><td>2</td><td>104</td> </tr> <tr> <td>T2S</td><td>5,540</td><td>1</td><td>0</td><td>1</td><td>81</td><td>6,833</td><td>2</td><td>0</td><td>2</td><td>100</td><td>7,387</td><td>2</td><td>0</td><td>2</td><td>109</td> </tr> <tr> <td>T2M</td><td>5,360</td><td>1</td><td>0</td><td>2</td><td>79</td><td>6,611</td><td>2</td><td>0</td><td>2</td><td>97</td><td>7,147</td><td>2</td><td>0</td><td>2</td><td>105</td> </tr> <tr> <td>T3S</td><td>5,479</td><td>1</td><td>0</td><td>1</td><td>81</td><td>6,757</td><td>1</td><td>0</td><td>2</td><td>99</td><td>7,305</td><td>2</td><td>0</td><td>2</td><td>107</td> </tr> <tr> <td>T3M</td><td>5,452</td><td>1</td><td>0</td><td>2</td><td>80</td><td>6,724</td><td>2</td><td>0</td><td>2</td><td>99</td><td>7,269</td><td>2</td><td>0</td><td>2</td><td>107</td> </tr> <tr> <td>T4M</td><td>5,461</td><td>1</td><td>0</td><td>2</td><td>80</td><td>6,736</td><td>2</td><td>0</td><td>2</td><td>99</td><td>7,282</td><td>2</td><td>0</td><td>2</td><td>107</td> </tr> <tr> <td>TFTM</td><td>5,378</td><td>1</td><td>0</td><td>2</td><td>79</td><td>6,633</td><td>1</td><td>0</td><td>2</td><td>98</td><td>7,171</td><td>1</td><td>0</td><td>2</td><td>105</td> </tr> <tr> <td>T5VS</td><td>5,708</td><td>2</td><td>0</td><td>0</td><td>84</td><td>7,040</td><td>3</td><td>0</td><td>0</td><td>104</td><td>7,611</td><td>3</td><td>0</td><td>1</td><td>112</td> </tr> <tr> <td>T5S</td><td>5,639</td><td>2</td><td>0</td><td>0</td><td>83</td><td>6,955</td><td>2</td><td>0</td><td>0</td><td>102</td><td>7,519</td><td>3</td><td>0</td><td>0</td><td>111</td> </tr> <tr> <td>T5M</td><td>5,710</td><td>3</td><td>0</td><td>1</td><td>84</td><td>7,042</td><td>3</td><td>0</td><td>1</td><td>104</td><td>7,613</td><td>3</td><td>0</td><td>2</td><td>112</td> </tr> <tr> <td>T5W</td><td>5,551</td><td>3</td><td>0</td><td>1</td><td>82</td><td>6,847</td><td>3</td><td>0</td><td>2</td><td>101</td><td>7,401</td><td>3</td><td>0</td><td>2</td><td>109</td> </tr> <td rowspan="10">1000 mA</td> <td rowspan="10">105 W</td> <td>T1S</td> <td>7,229</td> <td>2</td> <td>0</td> <td>2</td> <td>69</td> <td>9,168</td> <td>2</td> <td>0</td> <td>2</td> <td>87</td> <td>9,874</td> <td>2</td> <td>0</td> <td>2</td> <td>94</td>																30C (30 LEDs)	700 mA	68 W	T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104	T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109	T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105	T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107	T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107	T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107	TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105	T5VS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112	T5S	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111	T5M	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112	T5W	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109	1000 mA	105 W	T1S	7,229	2	0	2	69	9,168	2	0	2	87	9,874
30C (30 LEDs)	700 mA	68 W	T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104																																																																																																																																																																																																		
			T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109																																																																																																																																																																																																		
			T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105																																																																																																																																																																																																		
			T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107																																																																																																																																																																																																		
			T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107																																																																																																																																																																																																		
			T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107																																																																																																																																																																																																		
			TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105																																																																																																																																																																																																		
			T5VS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112																																																																																																																																																																																																		
			T5S	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111																																																																																																																																																																																																		
			T5M	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112																																																																																																																																																																																																		
	T5W	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109																																																																																																																																																																																																				
	T2S	7,572	2	0	2	72	9,603	2	0	2	91	10,342	2	0	2	98																																																																																																																																																																																																				
	T2M	7,325	2	0	2	70	9,291	2	0	2	88	10,005	2	0	3	95																																																																																																																																																																																																				
	T3S	7,488	2	0	2	71	9,496	2	0	2	90	10,227	2	0	2	97																																																																																																																																																																																																				
	T3M	7,451	2	0	2	71	9,450	2	0	2	90	10,177	2	0	2	97																																																																																																																																																																																																				
	T4M	7,464	2	0	2	71	9,467	2	0	2	90	10,195	2	0	2	97																																																																																																																																																																																																				
	TFTM	7,351	1	0	2	70	9,323	2	0	2	89	10,040	2	0	3	96																																																																																																																																																																																																				
	T5VS	7,801	3	0	1	74	9,894	3	0	1	94	10,655	3	0	1	101																																																																																																																																																																																																				
	T5S	7,803	3	0	2	74	9,774	3	0	1	93	10,526	3	0	1	100																																																																																																																																																																																																				
	T5M	7,707	3	0	0	73	9,897	3	0	2	94	10,658	4	0	2	102																																																																																																																																																																																																				
T5W	7,586	3	0	2	72	9,621	4	0	2	92	10,363	4	0	2	99																																																																																																																																																																																																					
40C (40 LEDs)	700 mA	89 W	T1S	6,876	2	0	2	77	8,639	2	0	2	97	9,345	2	0	2	105																																																																																																																																																																																																		
			T2S	7,202	2	0	2	81	9,049	2	0	2	102	9,788	2	0	2	110																																																																																																																																																																																																		
			T2M	6,968	2	0	2	78	8,755	2	0	2	98	9,469	2	0	3	106																																																																																																																																																																																																		
			T3S	7,122	2	0	2	80	8,948	2	0	2	101	9,679	2	0	2	109																																																																																																																																																																																																		
			T3M	7,088	2	0	2	80	8,905	2	0	2	100	9,632	2	0	2	108																																																																																																																																																																																																		
			T4M	7,100	2	0	2	80	8,920	2	0	2	100	9,649	2	0	2	108																																																																																																																																																																																																		
			TFTM	6,992	1	0	2	79	8,785	2	0	2	99	9,502	2	0	2	107																																																																																																																																																																																																		
			T5VS	7,421	3	0	0	83	9,323	3	0	1	105	10,085	3	0	1	113																																																																																																																																																																																																		
			T5S	7,331	2	0	0	82	9,210	3	0	1	103	9,962	3	0	1	112																																																																																																																																																																																																		
			T5M	7,423	3	0	2	83	9,326	3	0	2	105	10,087	4	0	2	113																																																																																																																																																																																																		
	T5W	7,216	3	0	2	81	9,066	4	0	2	102	9,807	4	0	2	110																																																																																																																																																																																																				
	T2S	9,972	2	0	2	72	12,558	3	0	3	91	13,481	3	0	3	98																																																																																																																																																																																																				
	T2M	9,648	2	0	3	70	12,149	3	0	3	88	13,043	3	0	3	95																																																																																																																																																																																																				
	T3S	9,862	2	0	2	71	12,418	2	0	2	90	13,331	2	0	2	97																																																																																																																																																																																																				
	T3M	9,814	2	0	2	71	12,358	3	0	3	90	13,267	3	0	3	96																																																																																																																																																																																																				
	T4M	9,831	2	0	2	71	12,379	2	0	3	90	13,290	2	0	3	96																																																																																																																																																																																																				
	TFTM	9,681	2	0	2	70	12,191	2	0	3	88	13,087	2	0	3	95																																																																																																																																																																																																				
	T5VS	10,275	3	0	1	74	12,937	3	0	1	94	13,890	4	0	1	101																																																																																																																																																																																																				
	T5S	10,150	3	0	1	74	12,782	3	0	1	93	13,721	3	0	1	99																																																																																																																																																																																																				
	T5M	10,278	4	0	2	74	12,942	4	0	2	94	13,894	4	0	2	101																																																																																																																																																																																																				
T5W	9,991	4	0	2	72	12,582	4	0	2	91	13,507	4	0	2	98																																																																																																																																																																																																					
60C (60 LEDs)	700 mA	131 W	T1S	10,226	2	0	2	78	12,871	3	0	3	98	13,929	3	0	3	106																																																																																																																																																																																																		
			T2S	10,711	2	0	2	82	13,481	3	0	3	103	14,589	3	0	3	111																																																																																																																																																																																																		
			T2M	10,363	2	0	3	79	13,043	3	0	3	100	14,115	3	0	3	108																																																																																																																																																																																																		
			T3S	10,592	2	0	2	81	13,331	2	0	2	102	14,427	3	0	3	110																																																																																																																																																																																																		
			T3M	10,541	2	0	2	80	13,267	3	0	3	101	14,357	3	0	3	110																																																																																																																																																																																																		
			T4M	10,559	2	0	2	81	13,290	2	0	3	101	14,382	3	0	3	110																																																																																																																																																																																																		
			TFTM	10,398	2	0	3	79	13,087	2	0	3	100	14,163	2	0	3	108																																																																																																																																																																																																		
			T5VS	11,036	3	0	1	84	13,890	4	0	4	106	15,032	4	0	1	115																																																																																																																																																																																																		
			T5S	10,902	3	0	1	83	13,721	3	0	1	105	14,849	4	0	1	113																																																																																																																																																																																																		
			T5M	11,039	4	0	2	84	13,894	4	0	2	106	15,036	4	0	2	115																																																																																																																																																																																																		
	T5W	10,732	4	0	2	82	13,507	4	0	2	103	14,617	4	0	2	112																																																																																																																																																																																																				
	T2S	14,681	3	0	3	70	18,467	3	0	3	88	19,908	3	0	3	95																																																																																																																																																																																																				
	T2M	14,204	3	0	3	68	17,867	3	0	3	85	19,260	3	0	3	92																																																																																																																																																																																																				
	T3S	14,518	3	0	3	69	18,262	3	0	3	87	19,687	3	0	3	94																																																																																																																																																																																																				
	T3M	14,448	3	0	3	69	18,173	3	0	4	87	19,591	3	0	4	94																																																																																																																																																																																																				
	T4M	14,473	3	0	3	69	18,205	3	0	3	87	19,625	3	0	4	94																																																																																																																																																																																																				
	TFTM	14,253	2	0	3	68	17,928	3	0	4	86	19,326	3	0	4	92																																																																																																																																																																																																				
	T5VS	15,127	4	0	1	72	19,028	4	0	1	91	20,512	4	0	1	98																																																																																																																																																																																																				
	T5S	14,943	4	0	1	71	18,797	4	0	1	90	20,263	4	0	1	97																																																																																																																																																																																																				
	T5M	15,131	4	0	2	72	19,033	4	0	2	91	20,517	5	0	3	98																																																																																																																																																																																																				
T5W	14,710	4	0	2	70	18,503	5	0	3	89	19,946	5	0	3	95																																																																																																																																																																																																					

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
30	530	52	0.52	0.30	0.26	0.23	--	--
	700	68	0.68	0.39	0.34	0.30	0.24	0.17
	1000	105	1.03	0.59	0.51	0.45	0.36	0.26
40	530	68	0.67	0.39	0.34	0.29	0.23	0.17
	700	89	0.89	0.51	0.44	0.38	0.31	0.22
	1000	138	1.35	0.78	0.67	0.58	0.47	0.34
60	530	99	0.97	0.56	0.48	0.42	0.34	0.24
	700	131	1.29	0.74	0.65	0.56	0.45	0.32
	1000	209	1.98	1.14	0.99	0.86	0.69	0.50

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

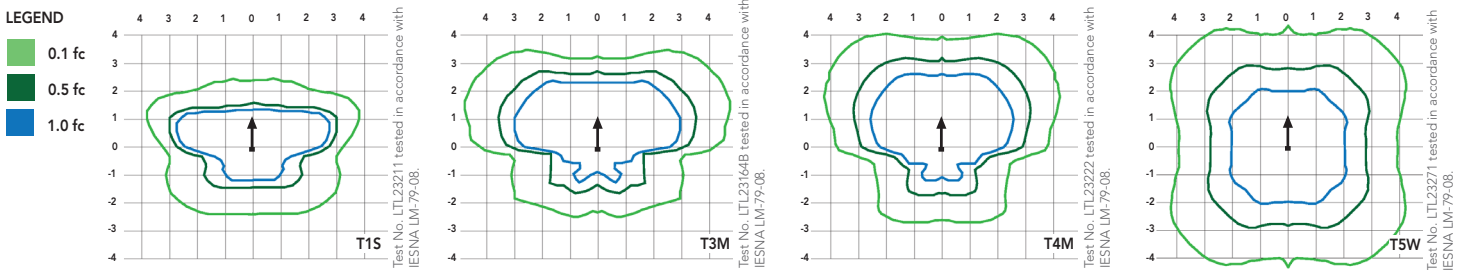
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	DSX1 LED 60C 1000			
	1.0	0.95	0.93	0.88
	DSX1 LED 60C 700			
	1.0	0.99	0.98	0.96

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.2 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000 K (70 minimum CRI) or optional 3000 K (80 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an

expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice.



D-Series Size 2 LED Wall Luminaire



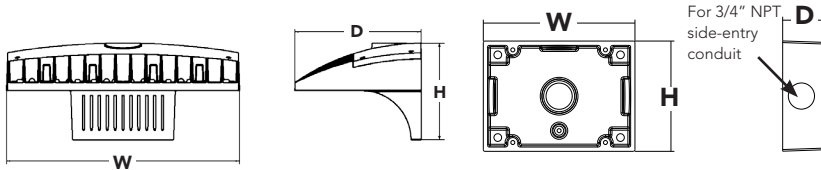
d^{series}

Specifications Luminaire

Width:	18-1/2" (47.0 cm)	Weight:	21 lbs (9.5 kg)
Depth:	10" (25.4 cm)		
Height:	7-5/8" (19.4 cm)		

Back Box (BBW)

Width:	5-1/2" (14.0 cm)	BBW Weight:	1 lbs (0.5 kg)
Depth:	1-1/2" (3.8 cm)		
Height:	4" (10.2 cm)		



Catalog
Number

Notes

Type **TYPE OC1**

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 76% in energy savings over comparable 400W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

DSXW2 LED	Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	Other Options	Finish (required)					
DSXW2 LED	30C	30 LEDs (three engines)	700 700 mA	40K 4000 K	T2S	MVOLT ¹	Shipped included (blank) Surface mounting bracket	Shipped installed PE Photoelectric cell, button type ⁴	Shipped installed SF Single fuse (120, 277, 347V) ⁷	DDBXD Dark bronze					
					Type II Short						120 ¹	PER NEMA twist-lock receptacle only (no controls)	DF Double fuse (208, 240, 480V) ⁷	DBLXD Black	
					Medium						208 ¹	Shipped separately ³ BBW Surface-mounted back box (for conduit entry)	DMG 0-10V dimming driver (no controls)	HS House-side shield ³	DNAXD Natural aluminum
					240 ¹						DCR Dimmable and controllable via ROAM [®] (no controls) ⁵				SPD Separate surge protection ⁸
					277 ¹							T3M Type III Medium	347 ²	PIRH 180° motion/ambient light sensor, 15-30' mtg ht. ⁶	
					480 ²						Short	480 ²	WG Wire guard		DDBTXD Textured dark bronze
					T4M Type IV Medium							VG Vandal guard		DBLXD Textured black	
					TFTM Forward Throw Medium								DNATXD Textured natural aluminum		
					ASVDF Asym-metric diffuse							DWHGXD Textured white			
												DSSTXD Textured sandstone			

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available.
- Also available as a separate accessory; see Accessories information.
- Photocontrol (PE) requires 120, 208, 240 or 277 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Specifies a ROAM[®] enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347V, 480V or PIRH. Additional hardware and services required for ROAM[®] deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- Specifies the Sensor Switch SBGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell) or DCR. Dimming driver standard.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- See the electrical section on page 2 for more details.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Accessories

Ordered and shipped separately.

DL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ⁹
DL1347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ⁹
DL1480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ⁹
SCU	Shorting cap ³
DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW2WG U	Wire guard accessory
DSXW2VG U	Vandal guard accessory
DSXW2BBW DDBXD U	Back box accessory (specify finish)



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
(20 LEDs)	530	36 W	T2S	3,876	1	0	1	108	3,429	1	0	1	95
			T2M	3,694	1	0	1	103	3,267	1	0	1	91
			T3S	3,833	1	0	1	106	3,390	1	0	1	94
			T3M	3,794	1	0	1	105	3,356	1	0	1	93
			T4M	3,717	1	0	2	103	3,288	1	0	1	91
			TFTM	3,864	1	0	1	107	3,418	1	0	1	95
			ASYDF	3,454	1	0	2	96	3,056	1	0	2	85
			ASDF	4,776	1	0	1	102	4,794	1	0	1	102
	700	47 W	T2M	4,552	1	0	1	97	4,569	1	0	1	97
			T3S	4,723	1	0	2	100	4,741	1	0	2	101
			T3M	4,675	1	0	2	99	4,693	1	0	2	100
			T4M	4,581	1	0	2	97	4,598	1	0	2	98
			TFTM	4,761	1	0	2	101	4,779	1	0	2	102
			ASYDF	4,257	1	0	2	91	4,273	1	0	2	91
			T2S	6,327	1	0	1	84	6,351	1	0	1	85
			T2M	6,029	1	0	2	80	6,052	1	0	2	81
	1000	74 W	T3S	6,256	1	0	2	83	6,280	1	0	2	84
			T3M	6,193	1	0	2	83	6,216	1	0	2	83
			T4M	6,067	1	0	2	81	6,090	1	0	2	81
			TFTM	6,307	1	0	2	84	6,330	1	0	2	84
			ASYDF	5,638	2	0	2	75	5,660	2	0	2	75
			T2S	5,280	1	0	1	98	5,769	1	0	1	107
			T2M	5,137	1	0	2	95	5,613	1	0	2	104
			T3S	5,214	1	0	1	97	5,696	1	0	1	105
(30 LEDs)	530	54 W	T3M	5,298	1	0	2	98	5,789	1	0	2	107
			T4M	5,228	1	0	2	97	5,712	1	0	2	106
			TFTM	5,223	1	0	2	97	5,707	1	0	2	106
			T2S	6,513	1	0	1	92	7,118	2	0	2	100
			T2M	6,337	2	0	2	89	6,925	2	0	2	98
			T3S	6,431	1	0	2	91	7,028	1	0	2	99
	700	71 W	T3M	6,536	1	0	2	92	7,143	2	0	3	101
			T4M	6,449	1	0	2	91	7,047	1	0	2	99
			TFTM	6,444	1	0	2	91	7,042	1	0	2	99
			T2S	8,697	2	0	2	80	9,501	2	0	2	87
			T2M	8,462	2	0	2	78	9,244	2	0	2	85
			T3S	8,588	1	0	2	79	9,381	2	0	2	86
	1000	109 W	T3M	8,728	2	0	3	80	9,534	2	0	3	87
			T4M	8,611	1	0	2	79	9,407	2	0	2	86
			TFTM	8,604	2	0	2	79	9,399	2	0	2	86

Note:

Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000K lumen values and photometric files.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	-	-
	1000	73 W	0.68	0.39	0.34	0.29	-	-
30C	350	36 W	0.33	0.19	0.17	0.14	-	-
	530	54 W	0.50	0.29	0.25	0.22	-	-
	700	71 W	0.66	0.38	0.33	0.28	0.23	0.16
	1000	109 W	1.01	0.58	0.50	0.44	-	-

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW2 LED 30C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

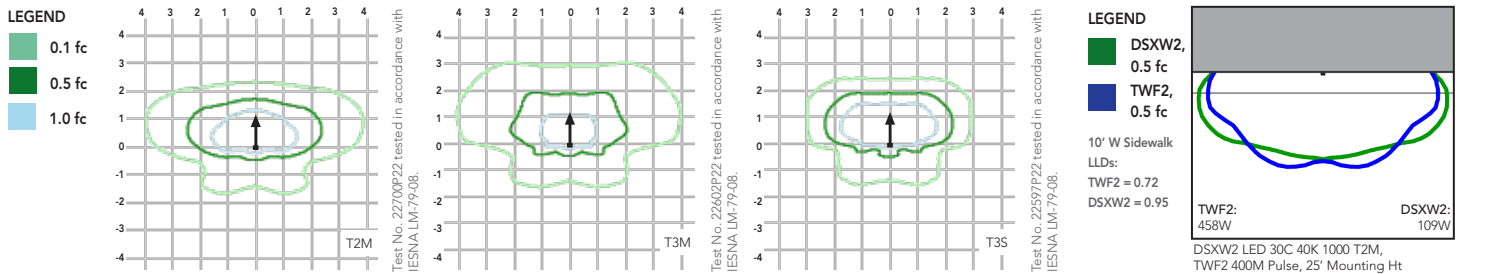
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 2 homepage.

Isofootcandle plots for the DSXW2 LED 30C 1000 40K. Distances are in units of mounting height (25').



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 2 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (80 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





WSTM LED

LED Mini Wall Sconce



Catalog Number
Notes
Type TYPE OC2

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Luminaire

- Height:** 5-3/4" (14.6 cm)
- Width:** 12-1/2" (31.8 cm)
- Depth:** 7-1/2" (19.1 cm)
- Weight:** 6 lbs. (2.7 kg)



Introduction

The Architectural WSTM Mini-Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 87% over metal halide versions. The diffuse lens eliminates harsh glare while producing comfortable illumination.

The WSTM LED is ideal for replacing existing 50-100W metal halide or 26-42W compact fluorescent wall-mounted products and can be mounted in either lens up or lens down orientation. The expected service life is over 10 years of nighttime use.

Ordering Information

EXAMPLE: WSTM LED 2A 40K 120 DDBTXD

WSTM LED	Series	LEDs	Color temperature	Voltage	Mounting	Control options	Other options	Finish <i>(required)</i>
WSTM LED	1A	One engine	30K 3000K	120	Shipped included	Shipped installed	Shipped installed	DDBXD Dark bronze
	2A	Two engines	40K 4000K	277¹	(blank) Surface mount	PE Photoelectric cell, button type	(blank) Diffusing glass lens	DBLXD Black
					Shipped separately²		CGL Clear glass lens	DNAXD Natural aluminum
					UT5 Uptilt 5 degrees		Shipped separately²	DWHXD White
							WG Wire guard	DDBTXD Textured dark bronze
								DBLBXD Textured black
								DNATXD Textured natural aluminum
								DWHGXD Textured white
								DSSTXD Textured sandstone

Stock configurations are offered for shorter lead times:

Stock Part Number
WSTM LED 1A 40K 120 DDBTXD
WSTM LED 2A 40K 120 DDBTXD

Accessories

Ordered and shipped separately.

WSTMUTS DDBXD U	5 degree uptilt accessory (specify finish)
WSTMWG U	Wire guard accessory

NOTES

- Includes step-down transformer; see page 2 for more information.
- Also available as a separate accessory; see Accessories information at left.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating at 120V or 277V +/-10%.

LEDs	Performance Package	System Watts ¹	30K (3000K, 80 CRI)					40K (4000K, 80 CRI)				
			Nominal Lumens	B	U	G	LPW	Nominal Lumens	B	U	G	LPW
1A	1A--K	9	673	0	0	0	75	733	0	0	1	81
2A	2A--K	17	1,308	1	0	0	77	1,277	1	0	0	75

1 See electrical load chart for 277V system watts.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WSTM LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.86	0.74	0.54

Electrical Load

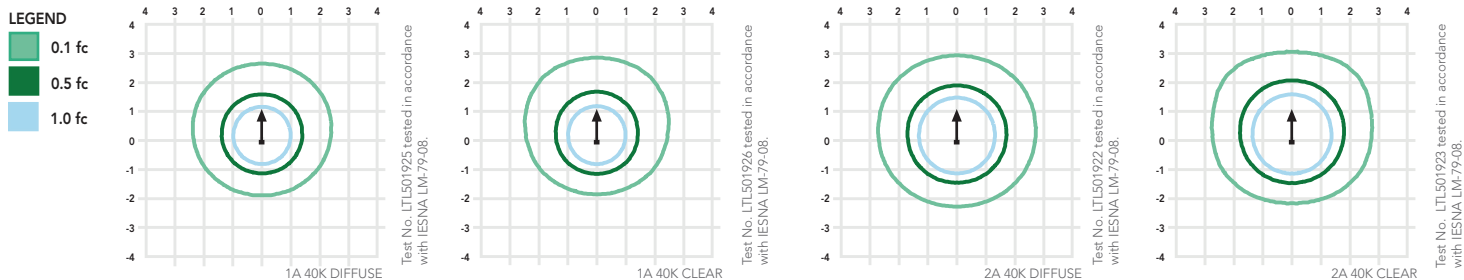
LEDs	System Watts	Current (A)	
		120	277
1A	9W	0.08	—
	13W ¹	—	0.06
2A	17W	0.15	—
	22W ¹	—	0.09

1 Higher wattage is due to electrical losses from step-down transformer.

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WSTM LED homepage](#).

Isofootcandle plots for the WSTM LED 40K. Distances are in units of mounting height (8').



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WSTM LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LEDs make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates a heat sink to optimize thermal transfer from the internal light engine and promote long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder-coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Light engines are 3000K (>80 CRI) or 4000K (>80 CRI). The WSTM LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 42 high-efficacy LEDs mounted to a circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (50,000 hrs at 25°C, L74).

INSTALLATION

Easily installed using provided mounting strap. Mount to any non-combustible vertical surface, over a 4" round or square recessed outlet box (by others). Back access through slotted gasket.

LISTINGS

CSA certified to U.S. standards. Luminaire is IP65 rated and suitable for wet locations when mounted with the lens down. Rated for -30°C minimum ambient.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at www.citybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





WSTM LED

LED Mini Wall Sconce



Catalog Number

Notes

Type **TYPE OC7**

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The Architectural WSTM Mini-Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 87% over metal halide versions. The diffuse lens eliminates harsh glare while producing comfortable illumination.

The WSTM LED is ideal for replacing existing 50-100W metal halide or 26-42W compact fluorescent wall-mounted products and can be mounted in either lens up or lens down orientation. The expected service life is over 10 years of nighttime use.

Specifications

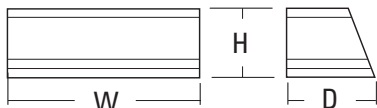
Luminaire

Height: 5-3/4"
(14.6 cm)

Width: 12-1/2"
(31.8 cm)

Depth: 7-1/2"
(19.1 cm)

Weight: 6 lbs.
(2.7 kg)



Ordering Information

EXAMPLE: WSTM LED 2A 40K 120 DDBTXD

WSTM LED							
Series	LEDs	Color temperature	Voltage	Mounting	Control options	Other options	Finish <i>(required)</i>
WSTM LED	1A One engine 2A Two engines	30K 3000K 40K 4000K	120 277 ¹	Shipped included (blank) Surface mount Shipped separately ² UT5 Uptilt 5 degrees	Shipped installed PE Photoelectric cell, button type	Shipped installed (blank) Diffusing glass lens CGL Clear glass lens Shipped separately ² WG Wire guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

Stock configurations are offered for shorter lead times:

Stock Part Number

WSTM LED 1A 40K 120 DDBTXD
WSTM LED 2A 40K 120 DDBTXD

Accessories

Ordered and shipped separately.

WSTMUTS DDBXD U 5 degree uptilt accessory (specify finish)
WSTMWG U Wire guard accessory

NOTES

- Includes step-down transformer; see page 2 for more information.
- Also available as a separate accessory; see Accessories information at left.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating at 120V or 277V +/-10%.

LEDs	Performance Package	System Watts ¹	30K (3000K, 80 CRI)					40K (4000K, 80 CRI)				
			Nominal Lumens	B	U	G	LPW	Nominal Lumens	B	U	G	LPW
1A	1A--K	9	673	0	0	0	75	733	0	0	1	81
2A	2A--K	17	1,308	1	0	0	77	1,277	1	0	0	75

1 See electrical load chart for 277V system watts.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **WSTM LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.86	0.74	0.54

Electrical Load

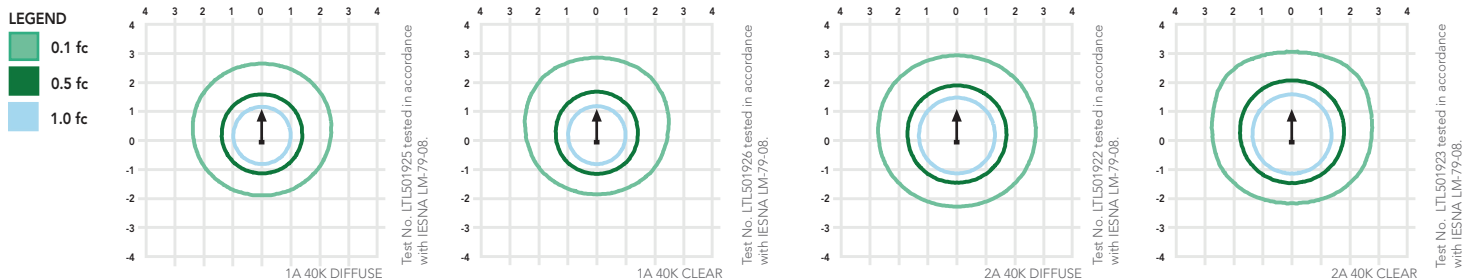
LEDs	System Watts	Current (A)	
		120	277
1A	9W	0.08	—
	13W ¹	—	0.06
2A	17W	0.15	—
	22W ¹	—	0.09

1 Higher wattage is due to electrical losses from step-down transformer.

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [WSTM LED homepage](#).

Isofootcandle plots for the WSTM LED 40K. Distances are in units of mounting height (8').



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WSTM LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LEDs make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates a heat sink to optimize thermal transfer from the internal light engine and promote long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder-coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Light engines are 3000K (>80 CRI) or 4000K (>80 CRI). The WSTM LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 42 high-efficacy LEDs mounted to a circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (50,000 hrs at 25°C, L74).

INSTALLATION

Easily installed using provided mounting strap. Mount to any non-combustible vertical surface, over a 4" round or square recessed outlet box (by others). Back access through slotted gasket.

LISTINGS

CSA certified to U.S. standards. Luminaire is IP65 rated and suitable for wet locations when mounted with the lens down. Rated for -30°C minimum ambient.

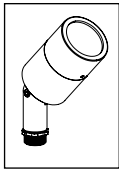
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at www.citybrands.com/CustomResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.





BKSSL
SOLID STATE LIGHTING

the power of
dimming with **adjust-e-lume®**
TECHNOLOGY

NITE STAR™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example: [] - **NS** - **LED** - [] - [] - [] - [] - [] - [] - [] - []

Example

Material

- Blank** - Aluminum
- B** - Brass
- S** - Stainless Steel

Series

NS - Nite Star™

Source

LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
**Requires magnetic Low Voltage dimmer*

LED Type

- e36** - 8WLED/2.7K
- e22** - 8WLED/3K
- e23** - 8WLED/4K
- e27** - 8WLED/Amber

Optics*

- NSP** - Narrow Spot (Red Indicator)
- SP** - Spot (Green Indicator)
- MFL** - Medium Flood (Yellow Indicator)
- WFL** - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** (Choose factory setting)

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

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

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU <i>Interior use only.</i>

Premium Finish

ABP Antique Brass Powder	CMG Cascade Mountain Granite	RMG Rocky Mountain Granite
AMG Aleutian Mountain Granite	CRI Cracked Ice	SDS Sonoran Desert Sandstone
AQW Antique White	CRM Cream	SMG Sierra Mountain Granite
BCM Black Chrome	HUG Hunter Green	TXF Textured Forest
BGE Beige	MDS Mojave Desert Sandstone	WCP Weathered Copper
BPP Brown Patina Powder	NBP Natural Brass Powder	WIR Weathered Iron
CAP Clear Anodized Powder	OCP Old Copper	<i>Also available in RAL Finishes See submittal SUB-1439-00</i>

Lens Type

- 12** - Soft Focus Lens
- 13** - Rectilinear Lens

Shielding

- 11** - Honeycomb Baffle

Option

360SL - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
12VAC/DC 50/60Hz	<1A (non-dimmed)	Magnetic Low Voltage Dimmer	-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

***OPTICAL DATA**

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

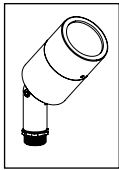
B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
1-8-14

DRAWING NUMBER
SUB000929

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



BKSSL
SOLID STATE LIGHTING

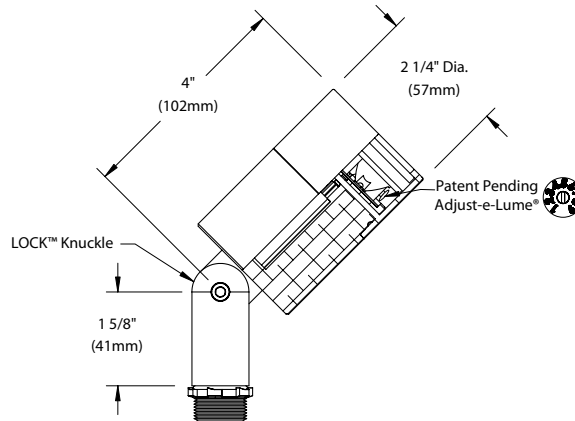
the power of dimming with **adjust-e-lume®** TECHNOLOGY

NITE STAR™

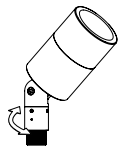
PROJECT:

TYPE:

SIDE VIEW



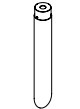
360 SL™



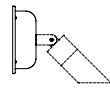
Accessories (Configure separately)

All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

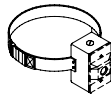
Mounting:



Power Pipe™



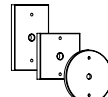
Power Canopy™



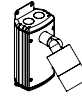
Tree Strap™



Stems

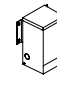


Canopies



UPM™

Remote Transformers:



TR Series



Power Pipe™



UPMRM™

Horizontal Rotation
(Optional 360SL™ Knuckle)

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Flush lens.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Remote Transformer

For use with 12VAC BKSSL™ remote transformer.

Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



*Teflon is a registered trademark of DuPont Corporation. *Energy Star is a registered trademark of the United States Environmental Protection Agency.




B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
1-8-14

DRAWING NUMBER
SUB000929

Select OptiKit™ for desired distribution

- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output



Adjust-e-Lume™ Setting

Distance from lamp	Narrow Spot	1	2	3	4	5	6	7	8	9
20'		2.4	3.1	5.0	6.3	7.6	8.9	9.2	9.3	9.3
16'		3.8	4.9	7.9	9.9	11.9	13.9	14.3	14.6	14.6
12'		6.7	8.6	14.0	17.6	21.2	24.7	25.5	25.9	25.9
8'		15.1	19.4	31.4	39.7	47.6	55.5	57.3	58.3	58.3
4'		60.4	77.7	125.8	158.6	190.4	222.1	229.2	233.0	233.2

4' 2' 0' 2' 4'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Adjust-e-Lume™ Setting

Distance from lamp	Spot	1	2	3	4	5	6	7	8	9
20'		1.6	2.1	3.3	4.3	5.3	5.9	6.1	6.3	6.3
16'		2.6	3.3	5.2	6.7	8.2	9.3	9.6	9.8	9.9
12'		4.5	5.8	9.3	12.0	14.7	16.5	17.0	17.5	17.5
8'		10.2	13.0	20.9	26.9	33.0	37.0	38.3	39.4	39.4
4'		40.9	52.1	83.4	107.8	131.9	148.1	153.1	157.5	157.8

8' 6' 4' 2' 0' 2' 4' 6' 8'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Adjust-e-Lume™ Setting

Distance from lamp	Medium Flood	1	2	3	4	5	6	7	8	9
20'		0.9	1.3	2.0	2.5	3.1	3.4	3.6	3.6	3.6
16'		1.5	2.0	3.1	3.9	4.8	5.4	5.6	5.6	5.7
12'		2.6	3.6	5.5	6.9	8.6	9.5	9.9	9.9	10.1
8'		5.9	8.0	12.3	15.5	19.3	21.5	22.2	22.4	22.6
4'		23.6	32.1	49.3	62.2	77.1	85.8	88.9	89.5	90.5

10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80





Adjust-e-Lume™ Setting

Distance from lamp	Wide Flood	1	2	3	4	5	6	7	8	9
20'		0.4	0.6	0.9	1.1	1.4	1.6	1.6	1.7	1.7
16'		0.7	0.9	1.4	1.8	2.1	2.5	2.6	2.6	2.6
12'		1.2	1.6	2.5	3.2	3.8	4.4	4.6	4.7	4.7
8'		2.7	3.7	5.6	7.2	8.6	10.0	10.3	10.5	10.6
4'		10.9	14.8	22.3	28.6	34.3	39.9	41.1	42.2	42.3

14' 12' 10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10' 12' 14'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Select OptiKit™ for desired distribution

- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output



Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting									
		1	2	3	4	5	6	7	8	9	
20'		2.4	2.9	4.9	6.1	7.3	8.8	9.1	9.3	9.3	
16'		3.8	4.6	7.6	9.6	11.4	13.8	14.3	14.5	14.6	
12'		6.7	8.2	13.5	17.0	20.3	24.5	25.4	25.7	25.9	
8'		15.1	18.4	30.3	38.2	45.8	55.2	57.0	57.9	58.2	
4'		60.3	73.6	121.3	152.8	183.1	220.9	228.2	231.6	232.8	
		4'	2'	0'	2'	4'					

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.6	2.1	3.1	4.1	4.9	6.0	6.1	6.2	6.3
16'		2.5	3.3	4.9	6.4	7.6	9.3	9.6	9.8	9.9
12'		4.5	5.9	8.7	11.4	13.5	16.6	17.0	17.3	17.5
8'		10.2	13.2	19.5	25.6	30.5	37.3	38.3	39.0	39.4
4'		40.6	52.7	78.1	102.3	121.9	149.1	153.1	156.0	157.8
		8'	6'	4'	2'	0'	2'	4'	6'	8'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80





Distance from lamp	Medium Flood	Adjust-e-Lume™ Setting										
		1	2	3	4	5	6	7	8	9		
20'		1.0	1.2	1.9	2.4	2.9	3.4	3.5	3.6	3.7		
16'		1.5	1.8	2.9	3.8	4.6	5.3	5.4	5.7	5.8		
12'		2.6	3.3	5.2	6.7	8.1	9.5	9.6	10.1	10.2		
8'		6.0	7.4	11.8	15.0	18.3	21.3	21.6	22.8	23.0		
4'		23.8	29.5	47.0	60.2	73.3	85.1	86.4	91.2	92.2		
		10'	8'	6'	4'	2'	0'	2'	4'	6'	8'	10'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Wide Flood	Adjust-e-Lume™ Setting														
		1	2	3	4	5	6	7	8	9						
20'		0.4	0.5	0.9	1.1	1.3	1.6	1.7	1.7	1.7						
16'		0.7	0.8	1.4	1.7	2.0	2.4	2.6	2.7	2.7						
12'		1.2	1.5	2.5	3.0	3.5	4.3	4.7	4.7	4.7						
8'		2.8	3.4	5.5	6.7	7.9	9.8	10.5	10.7	10.7						
4'		11.1	13.4	22.2	26.8	31.7	39.0	41.9	42.6	42.7						
		14'	12'	10'	8'	6'	4'	2'	0'	2'	4'	6'	8'	10'	12'	14'






Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Select OptiKit™ for desired distribution






- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output








Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		2.7	3.7	5.5	6.9	8.5	10.1	10.4	10.6	10.6
16'		4.3	5.7	8.7	10.8	13.3	15.7	16.2	16.5	16.5
12'		7.6	10.2	15.4	19.2	23.6	27.9	28.8	29.3	29.4
8'		17.1	23.0	34.7	43.2	53.0	62.8	64.8	66.0	66.1
4'		68.6	91.9	138.6	172.9	212.1	251.3	259.2	263.8	264.3
	4' 2' 0' 2' 4'									






Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.9	2.4	3.7	4.8	6.0	6.8	7.1	7.1	7.1
16'		2.9	3.7	5.9	7.4	9.4	10.6	11.0	11.1	11.2
12'		5.2	6.6	10.4	13.2	16.7	18.9	19.6	19.8	19.8
8'		11.8	14.9	23.4	29.7	37.6	42.5	44.1	44.6	44.6
4'		47.0	59.6	93.6	118.9	150.3	170.1	176.3	178.3	178.6
	8' 6' 4' 2' 0' 2' 4' 6' 8'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Medium Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.1	1.4	2.2	2.8	3.3	3.8	4.0	4.1	4.1
16'		1.7	2.1	3.4	4.3	5.1	5.9	6.3	6.4	6.4
12'		3.0	3.8	6.1	7.7	9.1	10.5	11.2	11.3	11.4
8'		6.7	8.5	13.8	17.3	20.5	23.7	25.2	25.4	25.6
4'		26.9	34.2	55.0	69.3	81.9	94.7	100.6	101.6	102.4
	10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Wide Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		0.5	0.6	1.0	1.2	1.4	1.7	1.8	1.8	1.8
16'		0.8	1.0	1.5	1.8	2.2	2.7	2.8	2.8	2.9
12'		1.3	1.8	2.7	3.3	3.9	4.7	4.9	5.0	5.1
8'		3.0	4.0	6.0	7.3	8.8	10.7	11.1	11.3	11.4
4'		12.0	15.9	23.9	29.3	35.1	42.6	44.4	45.1	45.7
	14' 12' 10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10' 12' 14'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

NiteStar - N. Spot

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 365
Watts 8.2
Lumens per Watt (Efficacy) 44

Color Accuracy
 Color Rendering Index (CRI) 68

Light Color
 Correlated Color Temperature (CCT) 4102 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: GCXV-F8KBF2
 Model Number: NS-LED-e23-NSP-12
 Type: Other

NiteStar - W. Flood

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 345
Watts 8.3
Lumens per Watt (Efficacy) 41

Color Accuracy
 Color Rendering Index (CRI) 67

Light Color
 Correlated Color Temperature (CCT) 3981 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: GCXV-IM8TLS
 Model Number: NS-LED-e23-WFL-12
 Type: Other

NiteStar - Spot

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 354
Watts 8.1
Lumens per Watt (Efficacy) 43

Color Accuracy
 Color Rendering Index (CRI) 68

Light Color
 Correlated Color Temperature (CCT) 4080 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: GCXV-XKQZJR
 Model Number: NS-LED-e23-SP-12
 Type: Other

NiteStar - M. Flood

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 346
Watts 8.2
Lumens per Watt (Efficacy) 42

Color Accuracy
 Color Rendering Index (CRI) 68

Light Color
 Correlated Color Temperature (CCT) 4047 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: GCXV-VHBBTD
 Model Number: NS-LED-e23-MFL-12
 Type: Other

NiteStar - Spot

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 253
Watts 8.2
Lumens per Watt (Efficacy) 30

Color Accuracy
 Color Rendering Index (CRI) 83

Light Color
 Correlated Color Temperature (CCT) 3182 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

Registration Number: GCXV-EK4LV4
 Model Number: NS-LED-e22-SP-12
 Type: Other

Nite Star™ - Med. Flood - Recllinear

lighting facts

A Program of the U.S. DOE

Light Output (Lumens) 299
Watts 8.5
Lumens per Watt (Efficacy) 35

Color Accuracy
 Color Rendering Index (CRI) 66

Light Color
 Correlated Color Temperature (CCT) 4022 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results are according to IESNA LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.

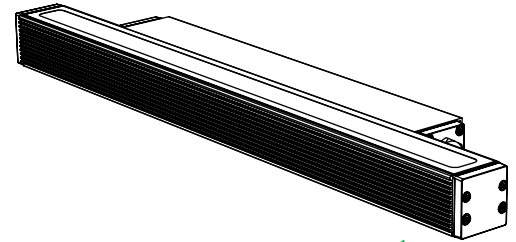
Registration Number: GCXV-AXCRJ4
 Model Number: NS-LED-e23-MFL-13
 Type: Other

Client: _____
 Project name: _____
 Order #: _____
 Type: **TYPE OG1** Qty: _____

FEATURES AND BENEFITS

Physical :

- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Clear tempered glass
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- Right or left feeding side options available
- IP66
- IK07 rated
- Corrosion-resistant option for marine environments
- Meets 3G ANSI C136.31 Vibration standard for bridge applications

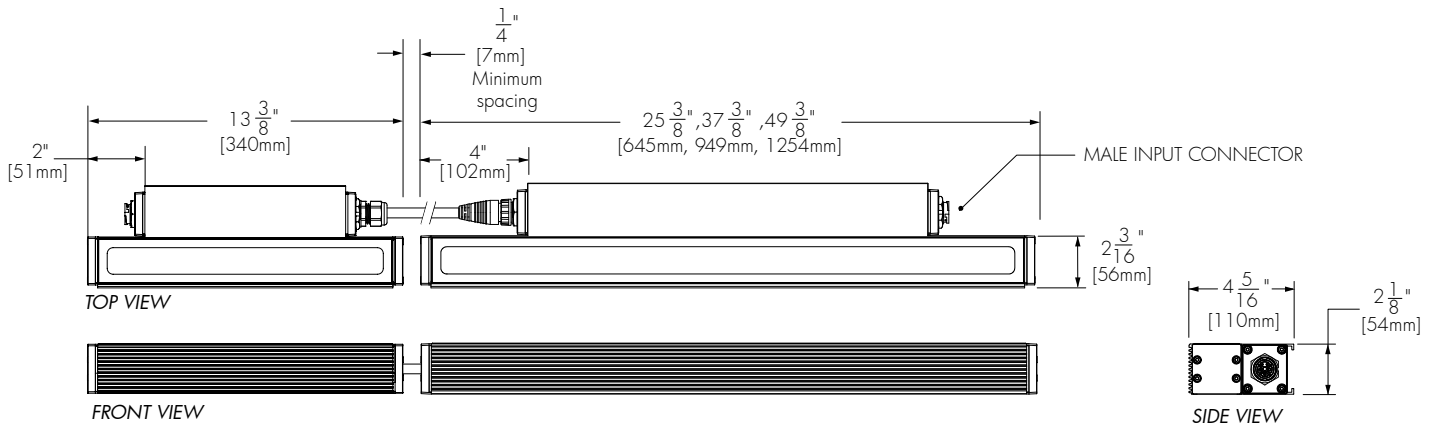


Performance :

- Minimum 1fc (10.7 lux) @ 129 feet (39.3m) distance (4000K, 4' unit, 10° x 60° optic, HO version)
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 5)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

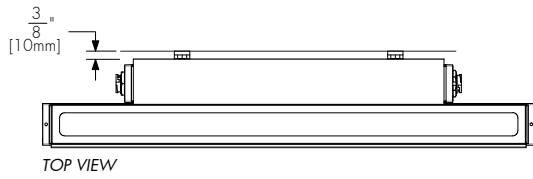
Electrical :

- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- Up to 88 feet with a single 120V power feed, HO version
- 5W/ft version meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft Regular Output version
- 15.25/ft High Output version
- Dimming options: 0-10 volt, DMX, DALI, Lumentalk, or Lutron® EcoSystem® enabled



5 year warranty

MOUNTING OPTIONS



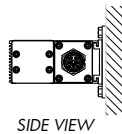
TOP VIEW



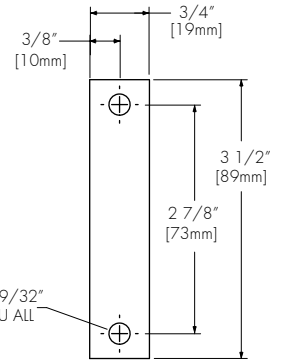
FRONT VIEW

UMP

Fixed Mounting



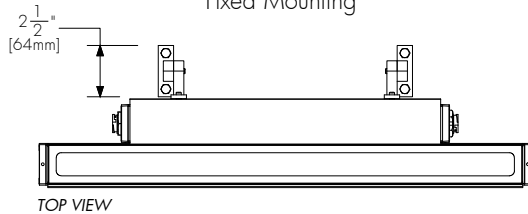
SIDE VIEW



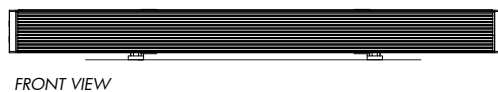
2X $\phi 9/32"$
THRU ALL

UMP

Mounting Hole Pattern



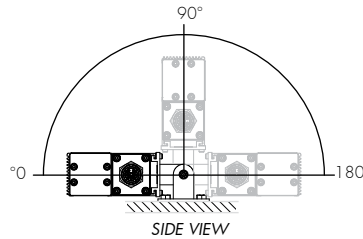
TOP VIEW



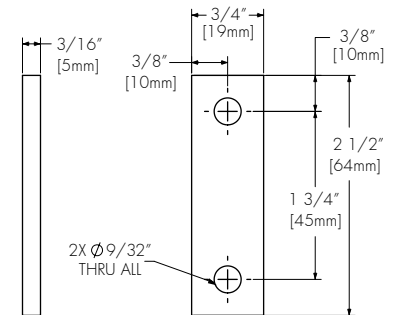
FRONT VIEW

UMAS

Universal Adjustable Mounting



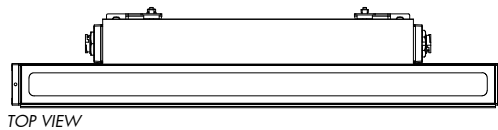
SIDE VIEW



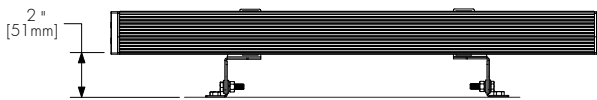
2X $\phi 9/32"$
THRU ALL

UMAS

Mounting Hole Pattern



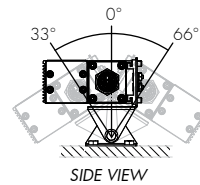
TOP VIEW



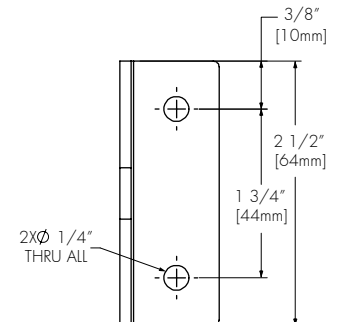
FRONT VIEW

WAM2

Adjustable Wall Mounting 2 inches



SIDE VIEW



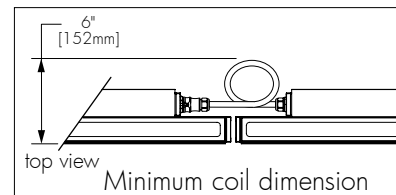
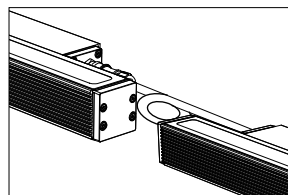
2X $\phi 1/4"$
THRU ALL

WAM

Mounting Hole Pattern

OPTION

ETE - End-to-end configuration,
no jumper cable needed.
16" cable included at input.



top view

Minimum coil dimension

HOW TO ORDER

HORIZONTAL
WHITE & STATIC COLORS

LOGH

Housing	Voltage	Length	Colors and color temperatures	Optic	Feeding side	Mounting Option	Finish	Control	Option
1	2	3	4	5	6	7	8	9	10
1					6				

Housing:

LOGH ASHRAE - lumenfacade™ Horizontal, 5W/ft
ASHRAE compliant

LOGH RO - lumenfacade™ Horizontal Regular
Output, 8.5W/ft

LOGH HO - lumenfacade™ Horizontal High Output,
15.25W/ft

2

Voltage:

100 - 100 volts **220** - 220 volts
120 - 120 volts **240** - 240 volts
208 - 208 volts **277** - 277 volts

3

Length: 12' length

12 - 13 3/8 inches (340mm) (2 kg/4.5 lbs)
24 - 25 3/8 inches (645mm) (3.17 kg/7 lbs)
36 - 37 3/8 inches (949mm) (4.75 kg/10.5 lbs)
48 - 49 3/8 inches (1254mm) (6.35 kg/14 lbs)

4

Colors and Color temperatures:

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
RD - Red
GR - Green
BL - Blue

5

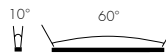
Optics:

10x10 - 10° x 10°

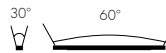
*For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support.



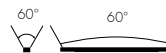
10x60 - 10° x 60°



30x60 - 30° x 60°



60x60 - 60° x 60°



Feeding Side:

Please specify one of the following:
(Right Feeding side is standard unless otherwise specified)

LF - Left Feeding side
RF - Right Feeding side

7

Mounting Option:

UMP - Fixed Mounting

UMAS - Universal Adjustable Mounting
(Suitable to use when **3GV** option is specified)

WAM2 - Adjustable Wall Mounting 2"

WAM6 - Adjustable Extended Arm Mounting 6"

WAM12 - Adjustable Extended Arm Mounting 12"

8

Finish:

SI - Silver SandText

BK - Black SandText

WH - White

CC - Custom (please specify RAL color)

9

Control:

NO - No Dimming

LT - Lumentalk Dimming
(available for 2' RO, 3' and 4' lengths only)
(1% minimum dimming value)

DIM - 0-10V Dimming option (10% minimum dimming value)

DMX 1FT - DMX Dimming option, resolution per foot
(1% minimum dimming value)

DMX 1FX - DMX Dimming option, resolution per fixture
(1% minimum dimming value)

DALI - DALI Dimming option (1% minimum dimming value)

ES - Lutron® EcoSystem® Enabled Dimming
(available for 2' RO, 3' and 4' lengths only)
(1% minimum dimming value)

10

Option:

ETE - End - to - end configuration, no jumper cable needed

CRC - Corrosion-resistant Coating

3GV - 3G ANSI C136.31 Vibration Rating

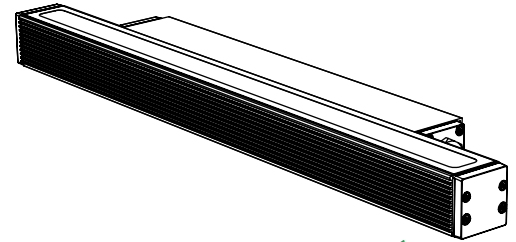
N.B. Available with UMAS mounting option only.

Client: _____
 Project name: _____
 Order #: _____
 Type: **TYPE OG2** Qty: _____

FEATURES AND BENEFITS

Physical :

- Low copper content extruded aluminum housing
- Available in 1', 2', 3' or 4' sections
- Electro-statically applied polyester powder coat finish
- Machined aluminum end caps and silicone gaskets
- Stainless steel hardware
- Clear tempered glass
- 10° x 10°, 10° x 60°, 30° x 60° or 60° x 60° optics
- Right or left feeding side options available
- IP66
- IK07 rated
- Corrosion-resistant option for marine environments
- Meets 3G ANSI C136.31 Vibration standard for bridge applications

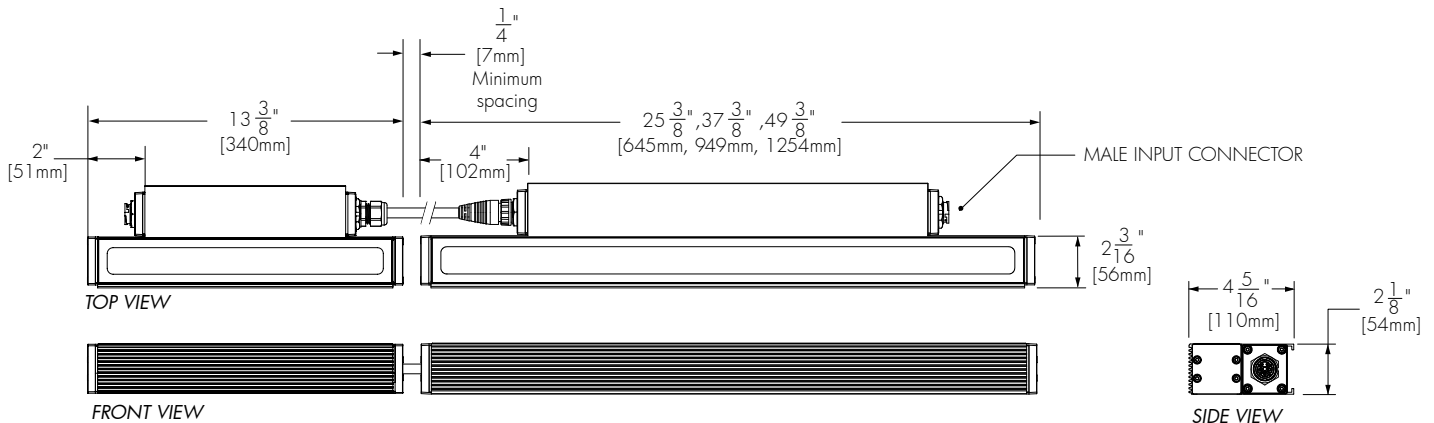


Performance :

- Minimum 1fc (10.7 lux) @ 129 feet (39.3m) distance (4000K, 4' unit, 10° x 60° optic, HO version)
- CRI values: 85+ (2700K), 80+ (3000K), 78+ (4000K)
- Lumen maintenance 120,000 hrs [L70 @ 25°C]
- Lumen measurements comply with LM - 79 - 08 standard
- Resolution per foot or per fixture (see page 5)
- Operating temperatures: -25° C to 50° C [-13F to 122F]

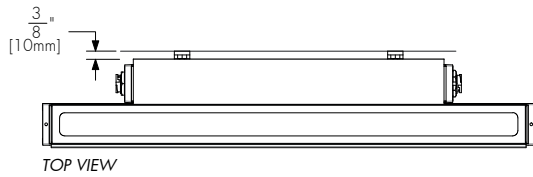
Electrical :

- Line voltage luminaire for 100 to 277V
- Power and data in 1 cable (#16-5)
- Up to 88 feet with a single 120V power feed, HO version
- 5W/ft version meets ASHRAE standards for linear lighting on building facades
- 8.5W/ft Regular Output version
- 15.25/ft High Output version
- Dimming options: 0-10 volt, DMX, DALI, Lumentalk, or Lutron® EcoSystem® enabled



5 year warranty

MOUNTING OPTIONS

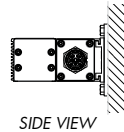


TOP VIEW

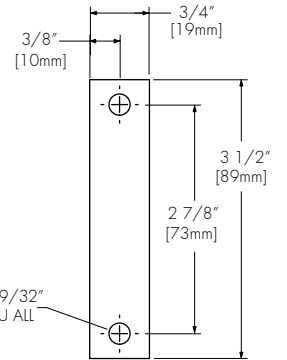


FRONT VIEW

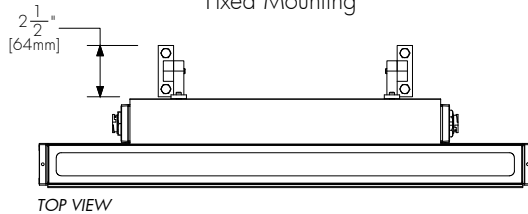
UMP
Fixed Mounting



SIDE VIEW



UMP
Mounting Hole Pattern

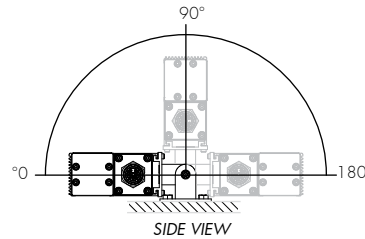


TOP VIEW

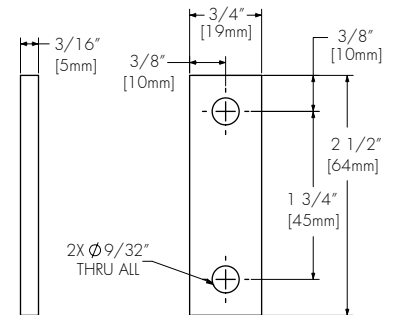


FRONT VIEW

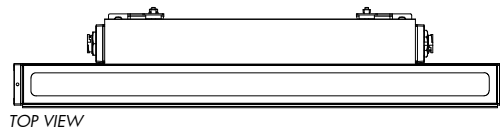
UMAS
Universal Adjustable Mounting



SIDE VIEW



UMAS
Mounting Hole Pattern

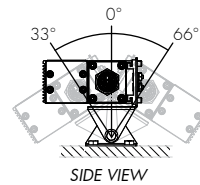


TOP VIEW

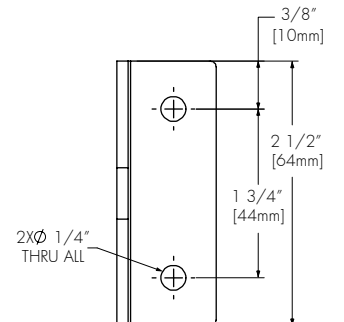


FRONT VIEW

WAM2
Adjustable Wall Mounting 2 inches



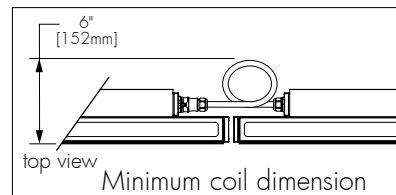
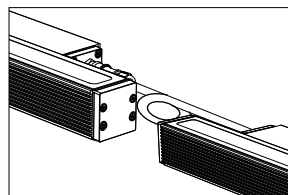
SIDE VIEW



WAM
Mounting Hole Pattern

OPTION

ETE - End-to-end configuration,
no jumper cable needed.
16" cable included at input.



top view

Minimum coil dimension

HOW TO ORDER

HORIZONTAL
WHITE & STATIC COLORS

LOGH

Housing	Voltage	Length	Colors and color temperatures	Optic	Feeding side	Mounting Option	Finish	Control	Option
1	2	3	4	5	6	7	8	9	10
1					6				

Housing:

LOGH ASHRAE - lumenfacade™ Horizontal, 5W/ft
ASHRAE compliant

LOGH RO - lumenfacade™ Horizontal Regular
Output, 8.5W/ft

LOGH HO - lumenfacade™ Horizontal High Output,
15.25W/ft

2

Voltage:

100 - 100 volts **220** - 220 volts
120 - 120 volts **240** - 240 volts
208 - 208 volts **277** - 277 volts

3

Length:

12 - 13 3/8 inches (340mm) (2 kg/4.5 lbs)
24 - 25 3/8 inches (645mm) (3.17 kg/7 lbs)
36 - 37 3/8 inches (949mm) (4.75 kg/10.5 lbs)
48 - 49 3/8 inches (1254mm) (6.35 kg/14 lbs)

4

Colors and Color temperatures:

27K - 2700K
30K - 3000K
35K - 3500K
40K - 4000K
RD - Red
GR - Green
BL - Blue

5

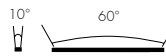
Optics:

10x10 - 10° x 10°

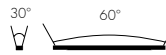
*For best results use with HO fixtures at a 6-inch (15cm) setback from surface. Contact factory for application support.



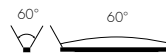
10x60 - 10° x 60°



30x60 - 30° x 60°



60x60 - 60° x 60°



Feeding Side:

Please specify one of the following:
(Right Feeding side is standard unless otherwise specified)

LF - Left Feeding side
RF - Right Feeding side

7

Mounting Option:

UMP - Fixed Mounting

UMAS - Universal Adjustable Mounting
(Suitable to use when **3GV** option is specified)

WAM2 - Adjustable Wall Mounting 2"

WAM6 - Adjustable Extended Arm Mounting 6"

WAM12 - Adjustable Extended Arm Mounting 12"

8

Finish:

SI - Silver SandText

BK - Black SandText

WH - White

CC - Custom (please specify RAL color)

9

Control:

NO - No Dimming

LT - Lumentalk Dimming
(available for 2' RO, 3' and 4' lengths only)
(1% minimum dimming value)

DIM - 0-10V Dimming option (10% minimum dimming value)

DMX 1FT - DMX Dimming option, resolution per foot
(1% minimum dimming value)

DMX 1FX - DMX Dimming option, resolution per fixture
(1% minimum dimming value)

DALI - DALI Dimming option (1% minimum dimming value)

ES - Lutron® EcoSystem® Enabled Dimming
(available for 2' RO, 3' and 4' lengths only)
(1% minimum dimming value)

10

Option:

ETE - End - to - end configuration, no jumper cable needed

CRC - Corrosion-resistant Coating

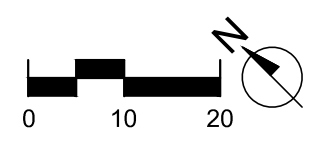
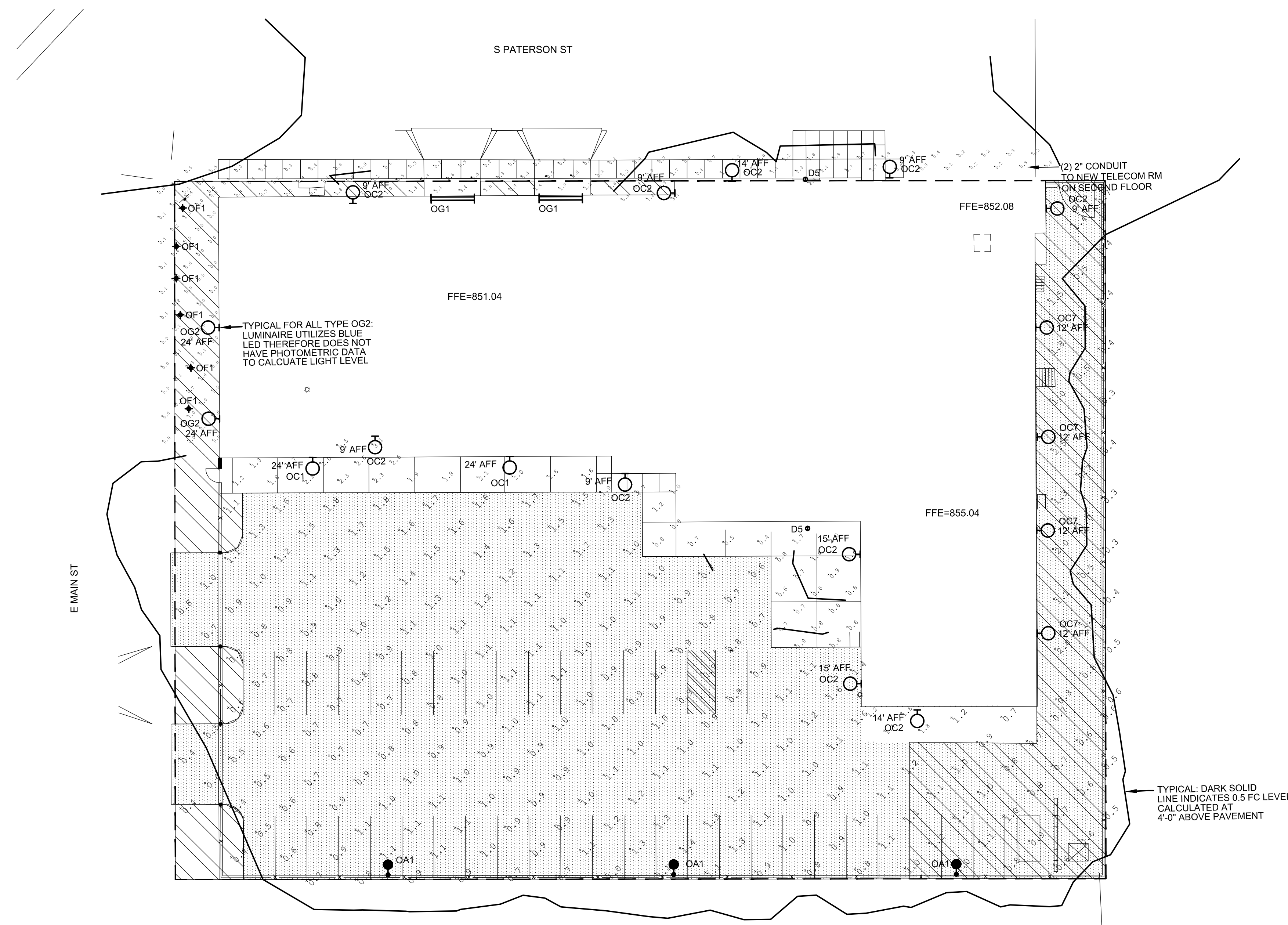
3GV - 3G ANSI C136.31 Vibration Rating

N.B. Available with UMAS mounting option only.

LUMINAIRE SCHEDULE														
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.														
ABBREVIATIONS: GWB = GYPSUM WALL BOARD P = PENDANT R = RECESSED V = VARIES ES = EXPOSED STRUCTURE PLAS = PLASTER S = SURFACE LG = LAY-IN GRID PL = POLE MOUNTED W = WALL MOUNTED														
DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLT	BALLAST/ DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	FIXTURE INPUT WATTAGE	INITIAL OR DELIVERED LUMENS	OPTIONS / ACCESSORIES	ACCEPTABLE MANUFACTURERS	SEE NOTE
D5	GOETHAL	EVO SERIES	4" LED ROUND RECESSED OPEN DOWNLIGHT WITH SELF-FLANGED TRIM. WIDE LIGHT DISTRIBUTION, 45 DEGREE CUTOFF, 1/4 GAUGE STEEL HOUSING.	4000K LED	277V	D	R	LG	6.34"	20W	600	15	PORTFOLIO LDA4 SERIES PHILIPS CALCULITE SERIES	
OA1	LITHONIA	D-SERIES	LED POLE MOUNTED AREA FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED, TYPE II LIGHT DISTRIBUTION AND NATURAL ALUMINUM FINISH, 30 SQUARE STRAIGHT STEEL POLE.	4000K LED	277V	D	-	-	-	105W	9500		CREE EDGE SERIES PHILIPS PUREFORM SERIES	
OC1	LITHONIA	D-SERIES	LED WALL MOUNTED AREA FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED, TYPE II LIGHT DISTRIBUTION AND NATURAL ALUMINUM FINISH.	4000K LED	277V	D	W	-	7.12"	110W	8700		CREE EDGE SERIES PHILIPS PUREFORM SERIES	
OC2	LITHONIA	WSTM LED SERIES	LED WALL MOUNTED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED AND NATURAL ALUMINUM FINISH.	4000K LED	277V	D	W	-	5.34"	15W	735		MCGRAW EDISON IST SERIES PHILIPS 101 SCONCE SERIES	
OC7	LITHONIA	WSTM LED SERIES	LED WALL MOUNTED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED AND NATURAL ALUMINUM FINISH.	4000K LED	277V	D	W	-	5.34"	25W	1275		MCGRAW EDISON IST SERIES PHILIPS 101 SCONCE SERIES	
OF1	S-K LIGHTING	NITE STAR SERIES	ABOVE GRADE LED LANDSCAPE FLOOD LIGHT WITH ALUMINUM HOUSING, INTEGRAL DRIVER, MEDIUM FLOOD DISTRIBUTION, SOFT FOCUS LENS AND ROTATIONAL KNUCKLE MOUNTING. FINISH TO BE SELECTED BY ARCHITECT.	4000K LED	277V/24V	D	-	-	-	10W	350		LUMIERE CAMBRIA 203 SERIES INTENSE LIGHTING IVT104L SERIES	
OG1	LUMENPULSE	LUMENFACDE	12" LINEAR SURFACE MOUNTED FACADE LIGHT WITH EXTRUDED ALUMINUM HOUSING, INTEGRAL DRIVER, 10 BY 60 DEGREE DISTRIBUTION, FIXED MOUNTING AND SILVER FINISH.	4000K LED	277V	D	S	-	-	5WLF	150LF		COLOR KINETICS ESSENTIAL WHITE SERIES	
OG2	LUMENPULSE	LUMENFACDE	12" LINEAR SURFACE MOUNTED FACADE LIGHT WITH EXTRUDED ALUMINUM HOUSING, INTEGRAL DRIVER, 10 BY 60 DEGREE DISTRIBUTION, FIXED MOUNTING AND SILVER FINISH.	BLUE LED	277V	D	S	-	-	5WLF	-		COLOR KINETICS ESSENTIAL WHITE SERIES	

CALCULATION SUMMARY					
CALCULATION AREA	AVG F.C.	MAX F.C.	MIN F.C.	AVG/MIN RATIO	MAX/MIN RATIO
ACCESS ROAD	0.9	2.5	0.3	3:1	8.3:1
PARKING	1.0	1.8	0.4	2.5:1	4.5:1
SOUTH WALKWAY	1.4	3.1	0.4	3.5:1	7.8:1
NORTH WALKWAY	0.9	3.4	0.2	4.4:1	17:1
LANDSCAPE WALL	0.4	7.0	0.0	-	-

LIGHTING POWER DENSITY (LDP) SUMMARY			
CALCULATION AREA	AREA SF	TOTAL WATTS	LDP
LDP AREA	29,822	697	0.02

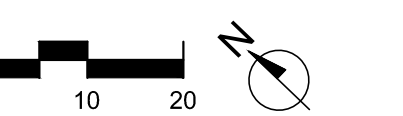
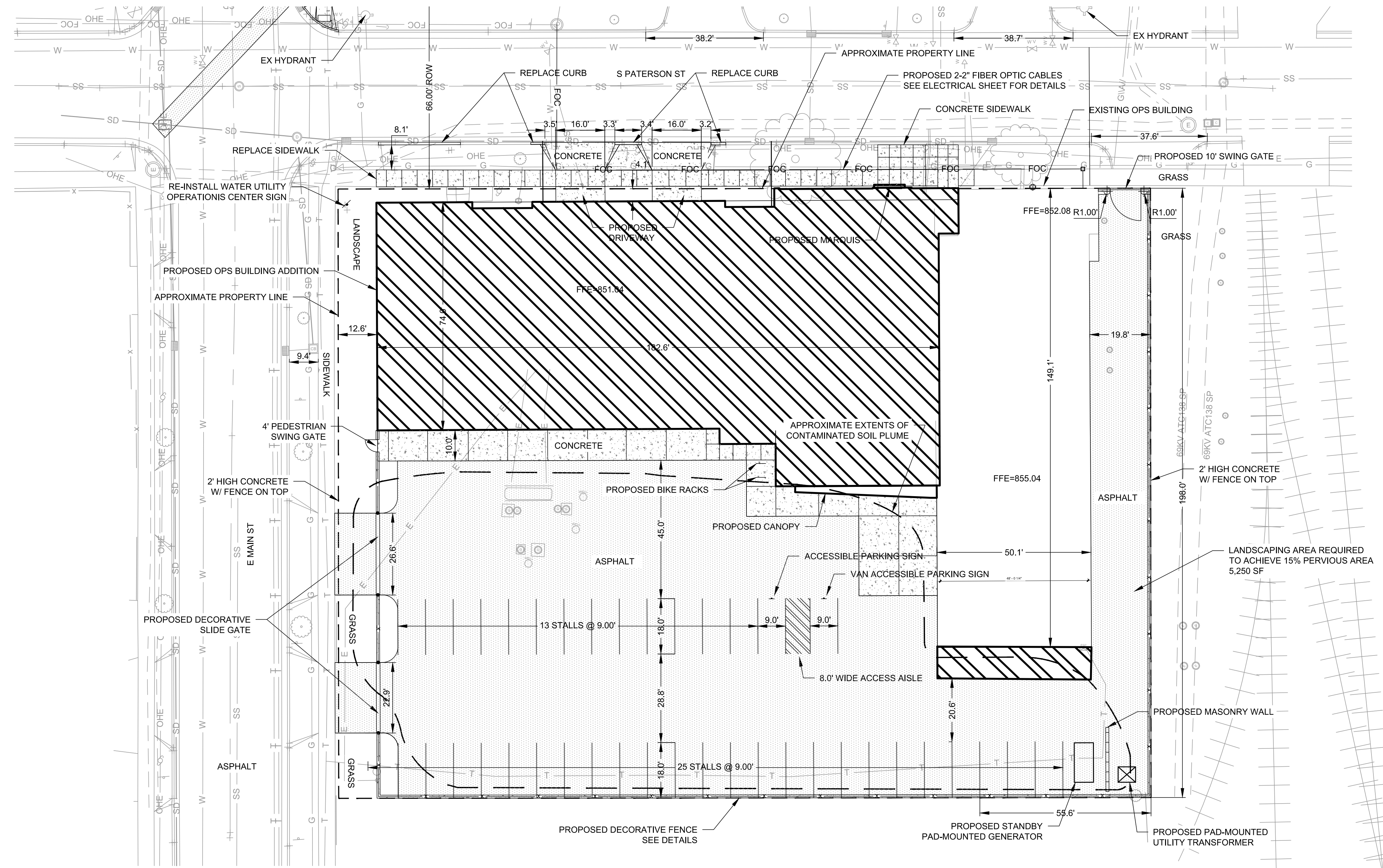


SITE IMPROVEMENTS PLAN NOTES:

1. LOT LINES ARE NOT MEASURED OR FIELD VERIFIED AND ARE SHOWN AS RECORDED ON THE ORIGINAL PLAT OF THE CITY OF MADISON. ALL TOPOGRAPHIC DATA IS REFERENCED TO WISCONSIN COUNTY COORDINATE SYSTEM.
2. 40 TOTAL PARKING STALLS.
3. 2 ADA PARKING STALLS.

LEGEND:

	SIGN (SINGLE POST)
	STORM INLET, CURB
	STORM INLET, ROUND
	STORM INLET, SQUARE
	STORM SEWER MANHOLE
	TRAFFIC FLOW DIRECTION
	BOUNDARY (PROJECT /CONSTRUCTION LIMITS)
	CONDUIT, GENERIC
	GAS
	ELECTRIC, OVERHEAD
	ELECTRIC, UNDERGROUND
	EXISTING CONTOUR LINES
	PROPOSED CONTOUR LINES
	FENCE
	GRADING LIMITS
	GUARDRAIL
	HANDRAIL
	PROPERTY LINE
	SANITARY SEWER
	SIGNAL CABLE, UNDERGROUND
	SILT FENCE
	SEDIMENT LOG
	STONE RETAINING WALL
	STORM SEWER / CULVERT
	TELEPHONE, UNDERGROUND
	TV CABLE
	WATER
	ASPHALT
	CONCRETE
	STABILIZED CONSTRUCTION ENTRANCE
	EROSION MAT



SITE SURVEY PLAN NOTES:

1. CONTOUR INTERVALS SHOWN ARE 1.0'.
2. PRIVATE SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON GROUND MARKINGS PLACED BY CLIENT REPRESENTATIVE. MARKINGS MAY NOT BE BY BENEFIT OF SUBSURFACE DETECTING INSTRUMENTS AS SOME WERE MARKED PER PERSONNEL BEST RECOLLECTION.
3. PUBLIC SUBSURFACE UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON GROUND MARKINGS PLACED BY DIGGERS HOTLINE. DIGGERS HOTLINE DOES NOT GUARANTEE THE PRECISION OF THEIR MARKINGS. IN ACCORDANCE WITH WISCONSIN LAW, SUBSURFACE UTILITIES MUST BE EXPOSED VIA HAND DIGGING BEFORE MACHINE DIGGING IS PERMISSIBLE. UTILITY LOCATION MARKINGS ARE VALID FOR ONLY 10 DAYS. CONTRACTOR MUST ORDER NEW UTILITY LOCATE PRIOR TO ANY EXCAVATION.
4. SANITARY SEWER AND STORM SEWER LOCATIONS HAVE BEEN DETERMINED BY OBSERVABLE SURFACE STRUCTURES AND RESPECTIVE FEATURES. INTERMEDIATE PIPE LOCATIONS ARE APPROXIMATE AS ACCURATE LOCATIONS WERE NOT AVAILABLE AT TIME OF SURVEY.
5. CONTROL POINTS AND BENCHMARKS SHOWN HEREON ARE FOR REFERENCE PURPOSES ONLY. PRIOR TO STAKING, THE CONTROL MUST BE INDEPENDENTLY VERIFIED AS UNDISTURBED. NO WARRANTY IS MADE WITH RESPECT TO THE ACCURACY OF CONTROL SHOWN HEREON AS THEY ARE SUBJECT TO POTENTIAL DISTURBANCE.
6. LOT LINES ARE NOT MEASURED OR FIELD VERIFIED AND ARE SHOWN AS RECORDED ON THE ORIGINAL PLAT OF THE CITY OF MADISON. ALL TOPOGRAPHIC DATA IS REFERENCED TO WISCONSIN COUNTY COORDINATE SYSTEM.

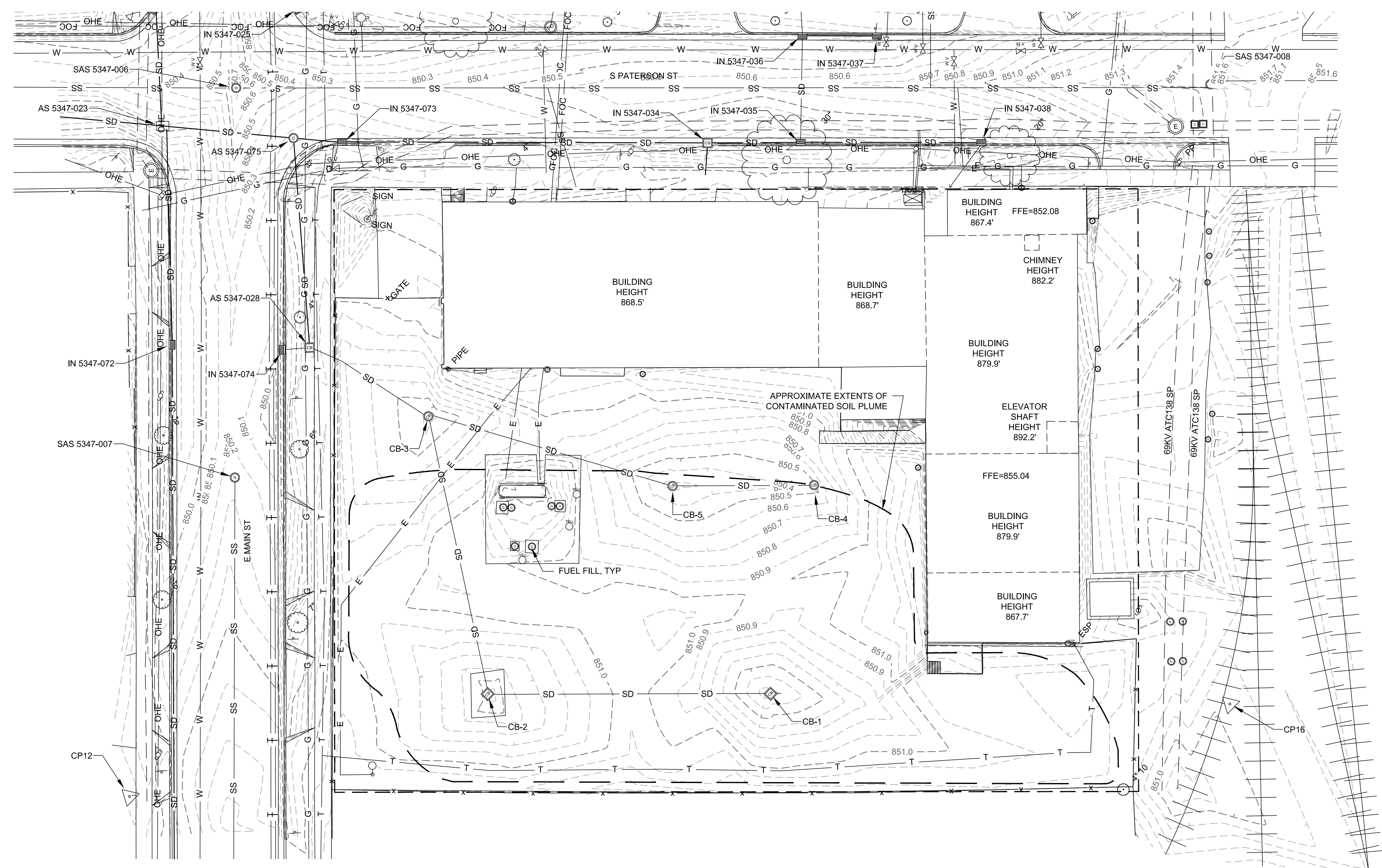
SURVEY DATA:

SURVEY DATE(S) DECEMBER 2014
 COORDINATE SYSTEM WCCS DANE COUNTY
 VERTICAL DATUM GEOID 12A-WI
 CONTROL SOURCE WISCORS
 SURVEY UNITS US SURVEY FOOT

SURVEY CONTROL DATA				
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING
CP10	NO.6 REBAR	851.20	485105.156	824579.052
CP11	NO.6 REBAR	850.53	485294.867	824396.620
CP12	CHISELED X	851.30	485159.539	824158.651
CP16	RR SPIKE	851.12	484919.820	824430.828

LEGEND:

- BOLLARD
- CONTROL POINT
- DOWNSPOUT
- ELECTRICAL TRANSFORMER BOX
- ELECTRICAL SERVICE PANEL
- ELECTRICAL HANDHOLE/PULLBOX
- FIRE HYDRANT
- FLAGPOLE
- FUEL FILL
- GAS METER
- GAS VALVE
- INLET, CURB
- INLET, ROUND
- INLET, SQUARE
- IRON PIN
- LIGHT POLE (SINGLE)
- MANHOLE, ELECTRIC
- MANHOLE, SANITARY SEWER
- MANHOLE, STORM SEWER
- MANHOLE, TELECOMMUNICATIONS
- MARKER, CABLE
- POWER POLE
- SIGN (SINGLE POST)
- SOIL BORING
- TREE, DECIDUOUS
- WATER VALVE
- WATER METER
- WATER SHUTOFF
- MONITORING WELL
- GAS
- ELECTRIC, OVERHEAD
- ELECTRIC, UNDERGROUND
- EXISTING CONTOUR LINES
- FENCE
- HANDRAIL
- SANITARY SEWER
- STORM SEWER / CULVERT
- TELEPHONE
- TV CABLE
- WATER
- RAILROAD TRACKS



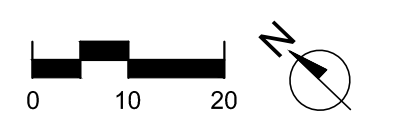
STORM SEWER STRUCTURE REPORT

STRUCTURE #	STRUCTURE TYPE	DEPTH	ELEVATION	SIZE	TYPE	STREET	
CB-1	SQUARE INLET	RIM FIL	850.30			WU PARKING LOT	
		INV NW	1.90	848.40	12		RCP
		INV SE	1.45	848.85	4		CAST
CB-2	SQUARE INLET	RIM FIL	850.47			WU PARKING LOT	
		INV NE	2.60	847.87	12		RCP
		INV SE	2.50	847.97	12		RCP
CB-3	SQUARE INLET	RIM FIL	850.36			WU PARKING LOT	
		INV N	3.20	847.16	12		RCP
		INV SE	3.05	847.31	12		RCP
CB-4	ROUND INLET	RIM FIL	850.49			WU PARKING LOT	
		INV NW	1.90	848.59	12		RCP
		RIM FIL	850.31				
CB-5	ROUND INLET	INV NW	1.95	848.36	12	RCP	
		INV SE	1.95	848.36	12	RCP	
		RIM FIL	850.78				
AS 5347-028	SQUARE INLET STRUCTURE	INV NW	2.50	848.28	2 - 6"	PVC	
		INV NE	-	-	12	RCP	
		INV SE	-	-	6	RCP	
		INV STR	5.20	845.58			
IN 5347-074	CURB INLET	RIM FIL	849.66			E MAIN ST	
		INV SE	1.40	848.26	2 - 6"		PVC
AS 5347-075	ACCESS STRUCTURE RECTANGULAR	RIM	850.14			E MAIN ST AT S PATERSON ST	
		INV NW	3.30	846.84	18		RCP
		INV W	3.15	846.99	12		RCP
		INV SE	5.00	845.14	18		RCP
IN 5347-073	CURB INLET	RIM FIL	849.70			E MAIN ST AT S PATERSON ST	
		INV NW	3.50	846.59	18		RCP
		INV SE	3.35	846.35	18		RCP
		RIM	850.09				
		INV NW	3.80	846.29	19x30		HERCP
AS 5347-023	VAULT RECTANGULAR	INV NE	3.90	846.19	15	RCP	
		INV SE	3.50	846.59	18	RCP	
		INV SW	3.60	846.49	15	RCP	
		SUMP	5.90	844.19			
		RIM FIL	849.43				
IN 5347-025	CURB INLET	INV NW	2.10	847.99	12	PVC	
		INV E	1.30	848.13	10	PVC	
		RIM FIL	849.39				
IN 5347-024	CURB INLET	INV NE	2.40	846.99	6	PVC	
		INV SE	2.50	846.89	12	PVC	
		INV SW	2.55	846.84	15	PVC	

* STR = STRUCTURE

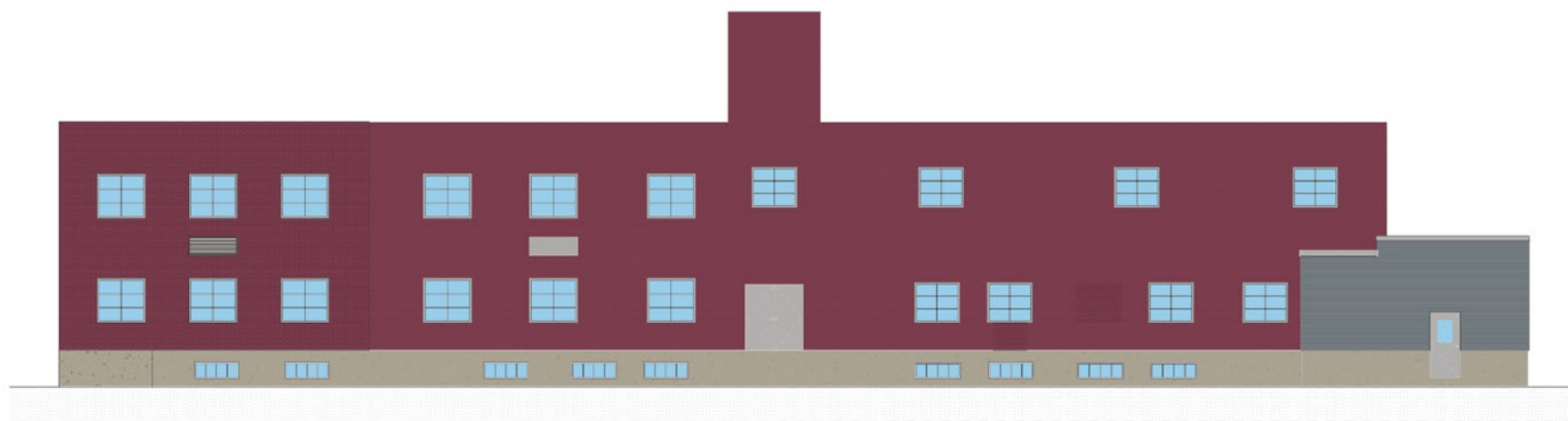
SANITARY SEWER STRUCTURE REPORT

STRUCTURE#	DEPTH	ELEV	SIZE	TYPE	BUILD	ID (FT)	TOP TYPE	OFFSET	RINGS	STREET	
SAS 5347-007	RIM	850.27			PRECAST	4	CONE	NORTHEAST	1x4" CONC	E MAIN ST	
	INV SW	4.45	845.82	8							PVC
	RIM	850.74									
SAS 5347-006	INV NW	9.40	841.34	10	BRICK	4	CONE	CENTER	-	E MAIN ST AT S PATERSON ST	
	INV SE	9.38	841.38	10							VP
	INV E	8.72	842.02	8							STUB
	RIM	851.51									
SAS-5347-008	INV NW	9.30	842.21	10	POURED	5x5	FLAT TOP	NORTHWEST	4x8" CONC	S PATERSON ST	
	INV SE	9.10	842.41	10							PVC





1 SOUTH BUILDING ELEVATION
1/8" = 1'-0"



2 EAST BUILDING ELEVATION
1/8" = 1'-0"



1 NORTH BUILDING ELEVATION
1/8" = 1'-0"



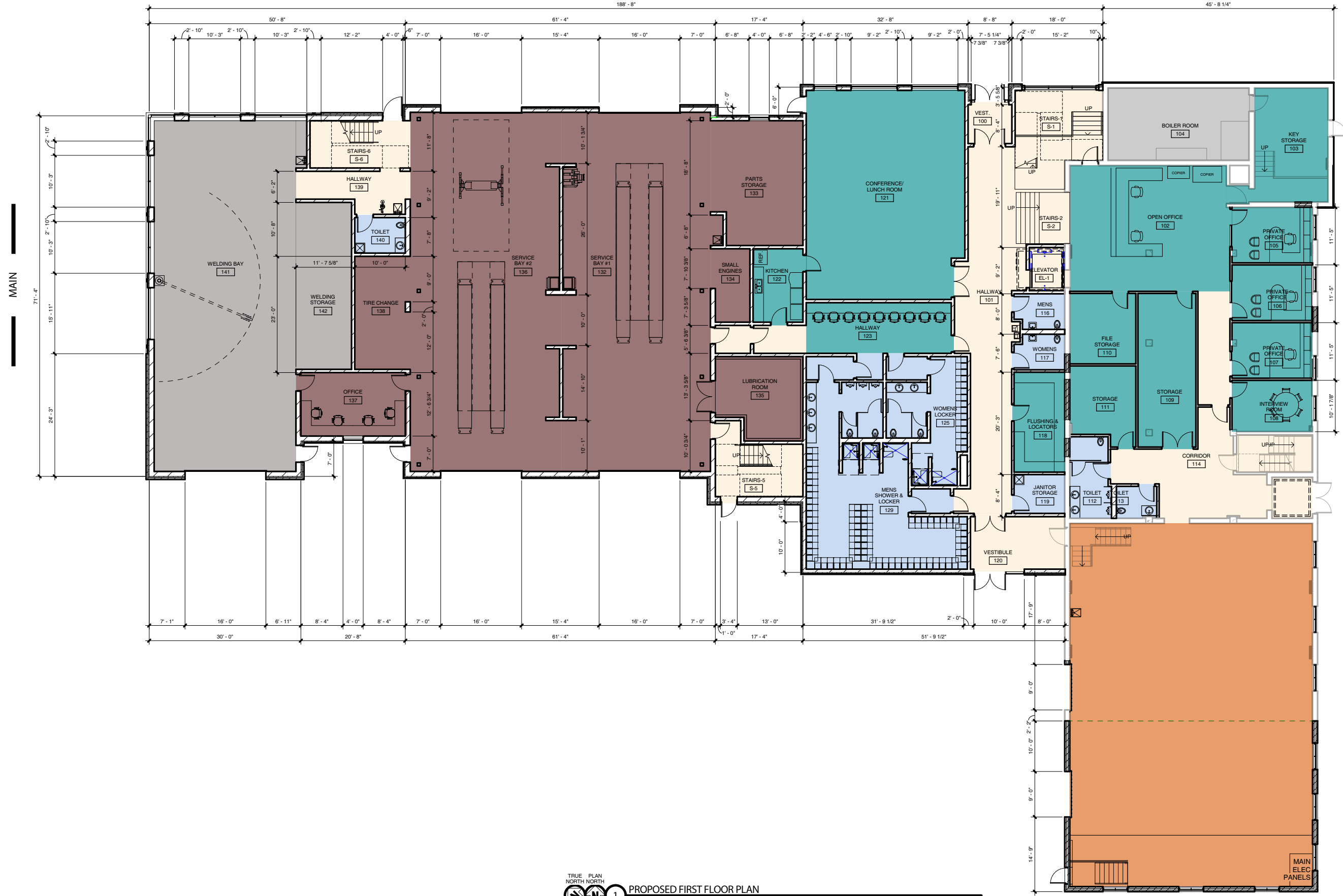
2 WEST BUILDING ELEVATION
1/8" = 1'-0"

MAIN



TRUE PLAN
NORTH NORTH
1
PROPOSED SECOND FLOOR PLAN
1/8" = 1'-0"

- CIRCULATION
- BUSINESS/ SUPPORT
- WELL MAINTENANCE
- VEHICLE MAINTENANCE
- LOCKERS/ TOILET ROOMS
- WELDING
- MECHANICAL



- CIRCULATION
- BUSINESS/ SUPPORT
- WELL MAINTENANCE
- VEHICLE MAINTENANCE
- LOCKERS/ TOILET ROOMS
- WELDING
- MECHANICAL

TRUE PLAN NORTH NORTH
 1 PROPOSED FIRST FLOOR PLAN
 1/8" = 1'-0"



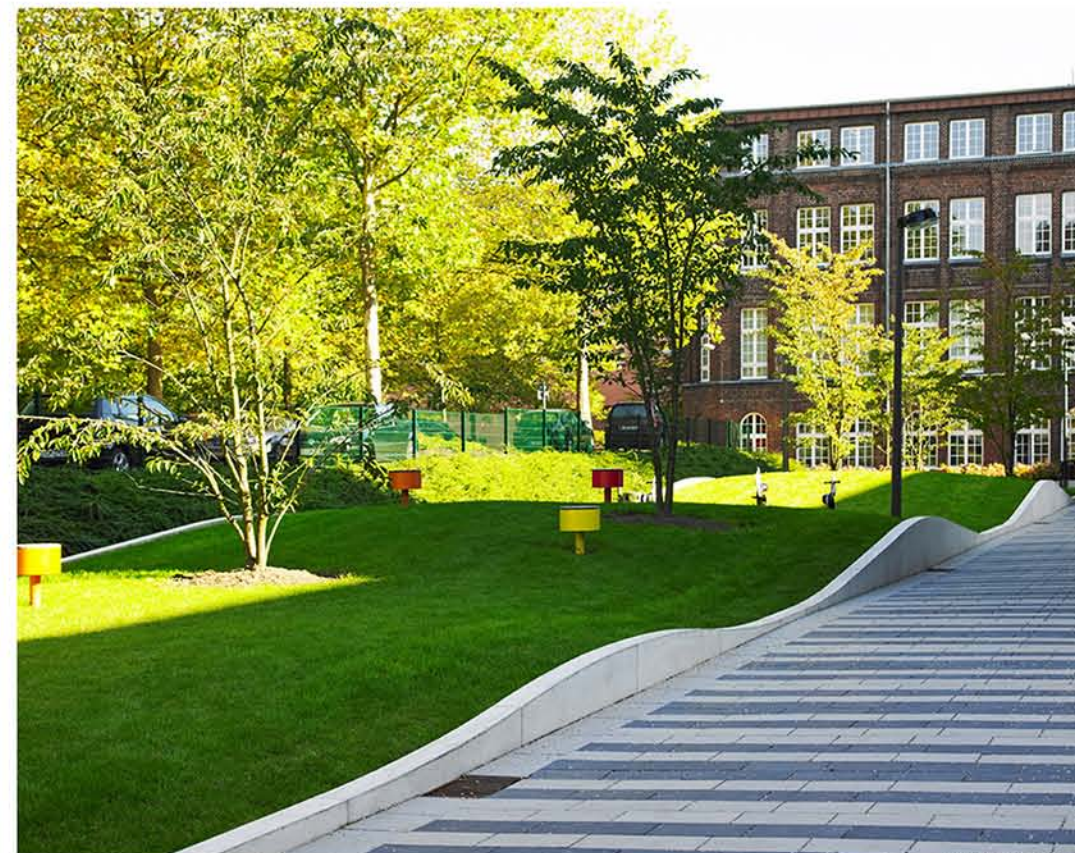
PATERSON STREET LOOKING SOUTHEAST



WELDED WIRE FENCE (MATCH CENTRAL PARK)



CORRUGATED CONCRETE FORMS housepstudiope.com



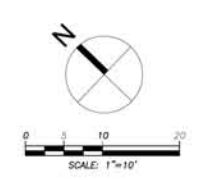
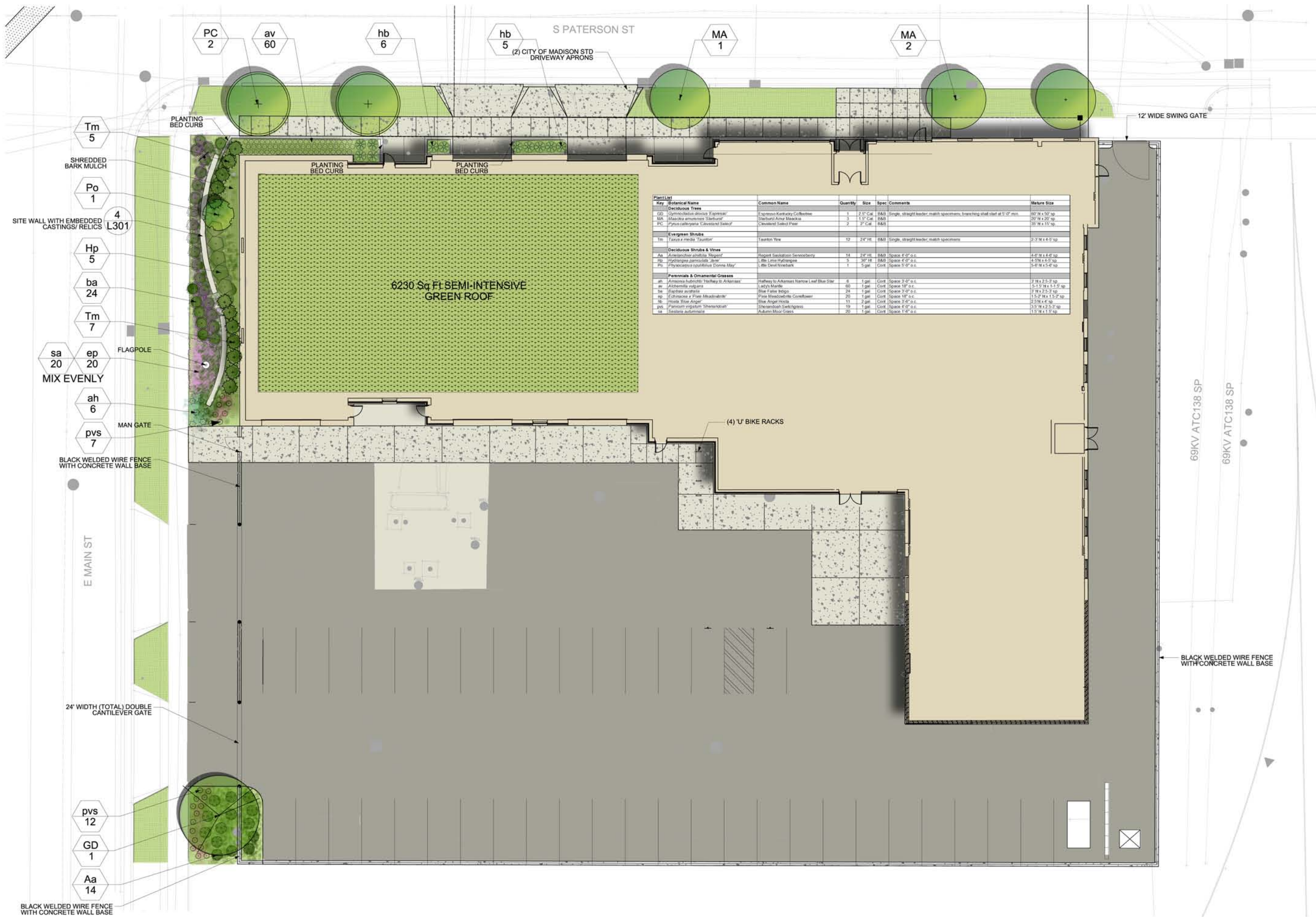
UNDULATING CONCRETE WALL landezine.com



CONCRETE WALL HOLE FORM VOIDS interiii.com



FENCE SCREENING INFILL (NON-PUBLIC AREAS)



MADISON WATER UTILITY
Paterson Street Operations Center - Urban Design Commission
 LANDSCAPE PLAN
 4 March 2015



