

Dane County Conditional Use Permit Application

Application Date	C.U.P Number
09/07/2023	DCPCUP-2023-02609
Public Hearing Date	
11/28/2023	

OWNER INFORMATION		AGENT INFORMATION	
OWNER NAME EQUIPMENTSHARECOM INC	Phone with Area Code	AGENT NAME PB2 ARCHITECTURE	Phone with Area Code (479) 878-3510
BILLING ADDRESS (Number, Street) 5710 BULL RUN DR		ADDRESS (Number, Street) 2809 AJAX AVENUE, SUITE 100	
(City, State, Zip) COLUMBIA, MO 65201		(City, State, Zip) Rogers, AR 72758	
E-MAIL ADDRESS		E-MAIL ADDRESS amy.miles@pb2ae.com	

ADDRESS/LOCATION 1		ADDRESS/LOCATION 2		ADDRESS/LOCATION 3	
ADDRESS OR LOCATION OF CUP		ADDRESS OR LOCATION OF CUP		ADDRESS OR LOCATION OF CUP	
EAST OF 3475 N STAR ROAD					
TOWNSHIP COTTAGE GROVE	SECTION 27	TOWNSHIP	SECTION	TOWNSHIP	SECTION
PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED		PARCEL NUMBERS INVOLVED	
0711-273-0033-0		---		---	

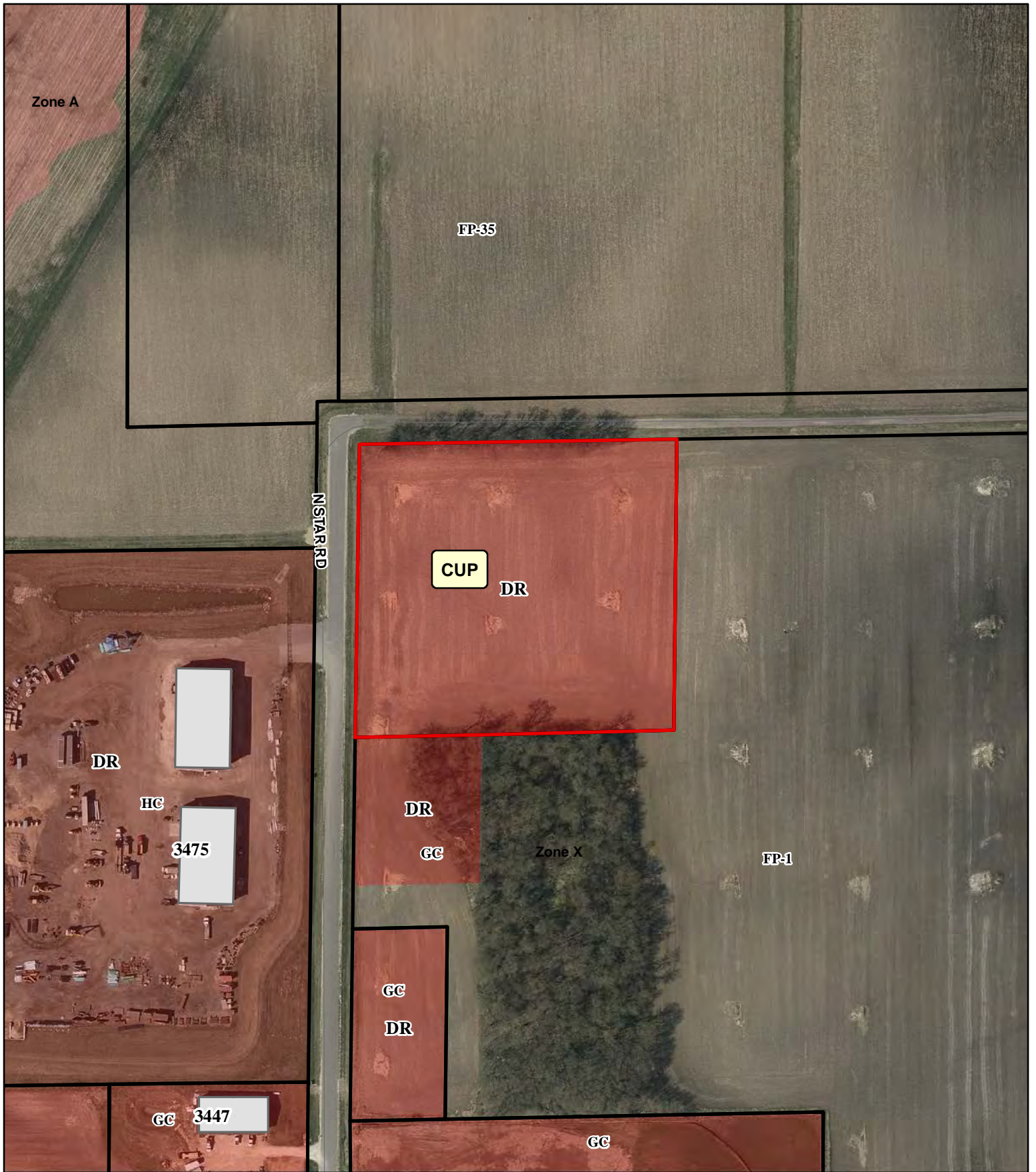
CUP DESCRIPTION
Outdoor storage of materials and equipment

DANE COUNTY CODE OF ORDINANCE SECTION	ACRES
10.272(3)	5.25



DEED RESTRICTION REQUIRED? <input type="checkbox"/> Yes <input type="checkbox"/> No Applicant Initials _____	Inspectors Initials RWL1	SIGNATURE:(Owner or Agent) _____
		PRINT NAME: _____
		DATE: _____

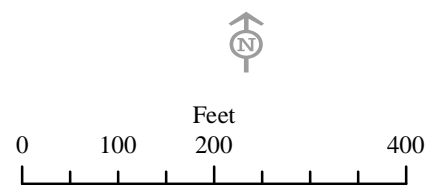
COMMENTS:

- LIGHTING, LANDSCAPING, AND SCREENING SHALL COMPLY WITH THE TOWN OF COTTAGE GROVE ORDINANCE CHAPTER 12 REQUIREMENTS.
- SUITABLE AREA FOR AN ON-SITE SEPTIC DRAINAGE FIELD SHALL BE PROVIDED.



CUP 2609

-  Floodway Areas in Zone AE
-  Floodplain





Dane County
Department of Planning and Development
 Zoning Division
 Room 116, City-County Building
 210 Martin Luther King Jr. Blvd.
 Madison, Wisconsin 53703
 (608) 266-4266

Application Fees	
General:	\$495
Mineral Extraction:	\$1145
Communication Tower:	\$1145 (+\$3000 RF eng review fee)
PERMIT FEES DOUBLE FOR VIOLATIONS OR WHEN WORK HAS STARTED PRIOR TO ISSUANCE OF PERMIT	

CONDITIONAL USE PERMIT APPLICATION

APPLICANT INFORMATION

Property Owner Name:	Duane P & Candace J Swalheim	Agent Name:	Amy Miles, pb2 architecture
Address (Number & Street):	436 Connie St	Address (Number & Street):	2809 Ajax Avenue Suite 100
Address (City, State, Zip):	Cottage Grove WI 53527	Address (City, State, Zip):	Rogers, AR 72758
Email Address:		Email Address:	amy.miles@pb2ae.com
Phone#:		Phone#:	479.878.3510

SITE INFORMATION

Township:	Cottage Grove	Parcel Number(s):	071127300330
Section:	27-7-11	Property Address or Location:	N Star Road - Lot 3
Existing Zoning:	GC	Proposed Zoning:	GC
		CUP Code Section(s):	

DESCRIPTION OF PROPOSED CONDITIONAL USE

Type of conditional use permit (for example: limited family business, animal boarding, mineral extraction, or any other listed conditional use): Outdoor storage	Is this application being submitted to correct a violation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Provide a short but detailed description of the proposed conditional use: EquipmentShare construction equipment rental facility is proposing a new development at this site. The business will rent all levels of construction equipment to general contractors. All equipment will be stored outside on a crushed concrete finished laydown yard while waiting for rental.	

GENERAL APPLICATION REQUIREMENTS

Applications will not be accepted until the applicant has met with department staff to review the application and determined that all necessary information has been provided. **Only complete applications will be accepted.** All information from the checklist below must be included. Note that additional application submittal requirements apply for particular uses or as may be required by the Zoning Administrator. Applicants for significant and/or potentially controversial conditional uses are strongly encouraged to meet with staff prior to submittal.

<input checked="" type="checkbox"/> Complete attached information sheet for standards	<input checked="" type="checkbox"/> Site Plan drawn to scale	<input checked="" type="checkbox"/> Detailed operational plan	<input checked="" type="checkbox"/> Written legal description of boundaries	<input checked="" type="checkbox"/> Detailed written statement of intent	<input checked="" type="checkbox"/> Application fee (non-refundable), payable to Dane County Treasurer
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I certify by my signature that all information presented herein is true and correct to the best of my knowledge. I hereby give permission for staff of the Dane County Department of Planning and Development to enter my property for the purpose of collecting information to be used as part of the review of this application. I acknowledge that submittal of false or incorrect information may be grounds for denial of this application.

Owner/Agent Signature: ~~Duane Swalheim~~
DocuSigned by: 41EA2136EA8345F...

Date: ~~5/15/2023~~

STANDARDS FOR CONDITIONAL USE PERMITS

Applicants must provide adequate evidence demonstrating to the Town and Dane County Zoning & Land Regulation Committee that the proposed conditional use satisfies the following 8 standards for approval, along with any additional standards specific to the applicable zoning district or particular use found in sections [10.220\(1\)](#) and [10.103](#) of the code.

Please explain how the proposed land use will meet the following standards (attach additional pages, if necessary):

<p>1. The establishment maintenance or operation of the conditional use will not be detrimental to or endanger the public health, safety, comfort or general welfare.</p>
<p>2. The uses, values, and enjoyment of other property in the neighborhood for purposes already permitted shall be in no foreseeable manner substantially impaired or diminished by establishment, maintenance or operation of the conditional use.</p>
<p>3. The establishment of the conditional use will not impede the normal and orderly development and improvement of the surrounding property for uses permitted in the district.</p>
<p>4. Adequate utilities, access roads, drainage and other necessary site improvements have been or are being made to accommodate the conditional use.</p>
<p>5. Adequate measures have been or will be taken to provide ingress and egress so designed as to minimize traffic congestion in the public streets.</p>
<p>6. That the conditional use shall conform to all applicable regulations of the district in which it is located.</p>
<p>7. The conditional use is consistent with the adopted town and county comprehensive plans.</p>
<p>8. If the conditional use is located in a Farmland Preservation (FP) Zoning district, the conditional use is subject to the following additional standards found in section 10.220(1). Attach additional pages, if necessary.</p> <ul style="list-style-type: none">• Explain how the use and its location in the Farmland Preservation Zoning District are consistent with the purposes of the district: • Explain how the use and its location in the Farmland Preservation Zoning district are reasonable and appropriate, considering alternative locations: • Explain how the use is reasonably designed to minimize the conversion of land from agricultural use or open space use: • Explain how the use does not substantially impair or limit the current or future agricultural use of surrounding parcels zoned for agricultural use: • Explain how construction damage to land remaining in agricultural use is minimized and repaired, to the extent feasible:

WRITTEN STATEMENT OF INTENT AND OPERATIONS PLAN

Applicants must provide a detailed written statement of intent describing the proposed conditional use along with an operational plan that explains how the conditional use will be operated. Please use the form below and provide responses, as applicable, to your proposed conditional use. Attach additional pages, if necessary.

Describe in detail the proposed conditional use. Provide the specific location of the use(s), type of equipment used, planned property improvements, including description / size of existing or proposed new buildings to be used, and any other relevant information. For existing or proposed commercial operations, provide the name of the business and describe the nature and type of business activity.

The proposed conditional use is to allow a portion of lot 3 on N. Star Road to be used as outdoor storage or a construction equipment laydown yard for a new EquipmentShare facility. The laydown yard will be finished with a crushed concrete material that will stand up to all types of equipment - from electric-powered scissor lifts to backhoe loaders and bulldozers. Most equipment will be stored near the rear of the site, away from N. Star Road. Along with the equipment laydown yard, EquipmentShare will build a new rental facility with a showroom, offices, employee breakroom, employee and public restrooms, work bays and an enclosed equipment wash bay.

List the proposed days and hours of operation.
Monday - Friday 7am - 5pm

List the number of employees, including both full-time equivalents and maximum number of personnel to be on the premises at any time.

EquipmentShare typically employs 10-15 employees.

List any anticipated noise, odors, dust, soot, runoff or pollution associated with the conditional use, along with any proposed measures that will be taken to mitigate impacts to neighboring properties.

Most equipment creates little to no noise, and no equipment will be moved or operated before or after business hours. The crushed concrete finish surface is pervious and will allow rainwater to be absorbed with minimal runoff.

Describe any materials proposed to be stored outside and any activities, processing or other operations taking place outside an enclosed building. Construction equipment is proposed to be stored outside. Any maintenance to this equipment will be performed inside the proposed new building.

For proposals involving construction of new facilities and/or infrastructure, describe, as applicable, any measures being taken to ensure compliance with county stormwater and erosion control standards under [Chapter 11](#) of [Chapter 14](#), Dane County Code.

All county stormwaer and erosion control standards will be incorporated into the engineered design of the site.

List and describe existing or proposed sanitary facilities, including adequate private onsite wastewater treatment systems, associated with the proposed conditional use. For uses involving domestic pets or livestock, list and describe measures taken to address manure storage or management.

Necessary sanitary facilities or onsite waste water treatment systems will be incorporated into the engineered design of the site/property.

List and describe any existing or proposed facilities for managing and removal of trash, solid waste and recyclable materials.

EquipmentShare will obtain the services of community waste management and removal for all trash, solid waste and recyclables.

Describe anticipated daily traffic, types and weights of vehicles, and any provisions, intersection or road improvements or other measures proposed to accommodate increased traffic.

Most traffic to and from the EquipmentShare site will be fleet vehicles or large trucks returning or delivering construction equipment.

Provide a listing of any hazardous, toxic or explosive materials to be stored on site, and any spill containment, safety or pollution prevention measures.

Machinery maintenance materials such as motor oil, transmission fluid, etc. will be used and stored inside the proposed building.

Describe any existing or proposed outdoor lighting along with any measures that will be taken to mitigate light-pollution impacts to neighboring properties. The Zoning Administrator may require submittal of a photometric plan for outdoor lighting if deemed necessary to determine potential impacts to neighbors.

Outdoor lighting will be provided along the perimeter of the new building and the site to ensure the safety and security of the site.

Describe any existing or proposed signage, including size, location, and materials, consistent with the county's sign ordinance found in s. [10.800](#).

Building and site signage will conform to all applicable sign restrictions and ordinances.

Briefly describe the current use(s) of the property on which the conditional use is proposed.

The property is currently vacant land.

Briefly describe the current uses of surrounding properties in the neighborhood.

Surrounding property is vacant or agricultural. There is also a general contractor's yard across the street from the subject property.



2809 Ajax Avenue Suite 100
Rogers, Arkansas 72758
Phone: 479.636.3545

May 2, 2023

Dane County
Department of Planning & Development
Zoning Division
210 Martin Luther King Jr. Blvd.
Room 116, City-County Building
Madison, WI 53703

Conditional Use Permit Application for Outdoor Storage at Proposed EquipmentShare Development
North Star Road – Lot 3
Cottage Grove, WI
Parcel #: 071127300330

Please consider this document as a supplemental narrative to the enclosed Conditional Use Permit Application submitted for outdoor storage as part of a new EquipmentShare construction equipment rental facility proposed for North Star Road in the Town of Cottage Grove.

INTRODUCTION

EquipmentShare is a nationwide construction solutions provider dedicated to solving industry pain points through smart jobsite technology and equipment rental, retail, and service centers. More than a rental company, EquipmentShare's cloud-connected platform is powered by telematics and machine hardware to give construction and industrial companies a real-time view into the jobsite.

The method of distribution of this technology is a fleet of construction equipment available for both large-scale general contractors and everyday home builders. EquipmentShare plans to develop Lot 3 on North Star Road to create a new equipment rental facility, consisting of: a new building, paved driveway access, customer parking and a crushed concrete lay down yard for equipment storage while waiting for rental.

PROPOSED SITE MODIFICATIONS

The property is currently vacant, undeveloped land, zoned GC by the Town of Cottage Grove. The site would be developed and stabilized to support construction of a new building, paved driveways and customer parking areas, and a crushed concrete equipment laydown yard. The surrounding properties are either vacant or being used as a contractor's service yard. None of the surrounding properties will experience any negative impacts from the EquipmentShare development. North Star Road has been improved to accommodate the minimal additional traffic that will be created by the EquipmentShare development. EquipmentShare is cognizant of site security and will ensure that any added site lighting will not encroach onto neighboring properties.

OPERATIONS

The operating hours are from 7 am to 5 pm, Monday through Friday, so the typical operational noise will not adversely affect neighbors. EquipmentShare expects between 10-15 employees to be on site at any given time. As previously mentioned, this site will operate an equipment laydown yard, which will serve as outdoor storage for construction equipment waiting for maintenance or rental. No hazardous or toxic materials will be stored on the equipment laydown yard. The yard will be stabilized and finished with a crushed concrete material that is durable to stand up to the large scale equipment while also providing permeable area for rain

water. The crushed concrete creates little to no dust when equipment is moving on the site and can be easily treated with dampening to reduce dust even further during particularly dry weather events. Dumpsters for solid waste and recyclables will be maintained on the equipment yard. Local waste management providers will be used for solid waste and recyclables removal, likely on a weekly basis.

ACCESSIBILITY

The site is accessible from North Star Road. The preliminary site plan accounts for two 40-foot wide (minimum) driveways, to allow for easy entering and exiting of trucks and other large vehicles. The two driveways will prevent large vehicles from having to conduct multiple point maneuvers on public roadways to exit the site after entering.

UTILITIES

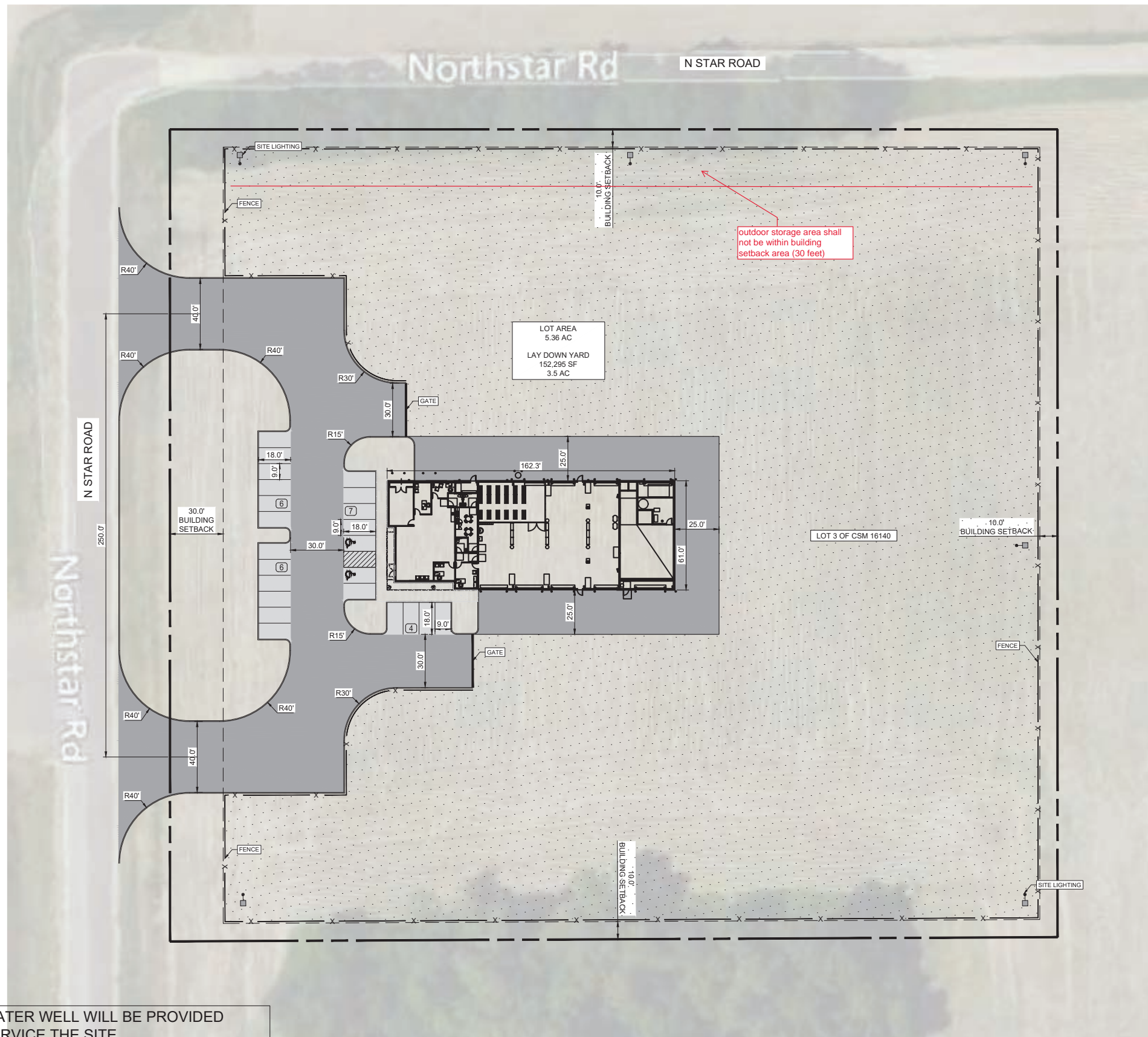
The proposed development should not put any extraordinary demands on existing infrastructure or utilities. According to project engineers, anticipated water demand is approximately 1,080 gallons per day, and wastewater demand is approximately 555 gallons per day. If required, the site has sufficient space for stormwater detention, and all required treatments will be designed for and provided in engineered drawings submitted later in the project timeline.

EquipmentShare buildings and sites are designed for 3-phase/480-volt power.

CLOSING

EquipmentShare is excited about this site and the opportunities to partner with Dane County and the Town of Cottage Grove on this new development. We look forward to the opportunity to discuss this conditional use permit application with county and town staff as part of the entitlements process for this project.

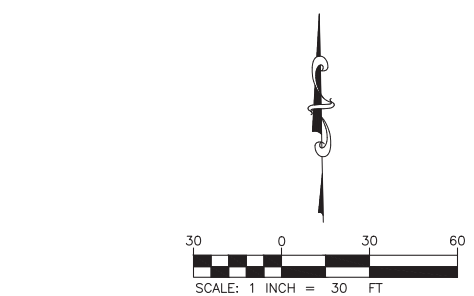
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY BOWMAN CONSULTING SHALL BE WITHOUT LIABILITY TO BOWMAN CONSULTING.



WATER WELL WILL BE PROVIDED SERVICE THE SITE.

SEPTIC SYSTEM WILL BE INSTALLED TO SERVICE THE SITE.

STORM WATER FROM THE SITE WILL BE DISCHARGED TO A REGIONAL POND (BY OTHERS)



PROPOSED LEGEND	
PROPOSED BUILDING	
PROPERTY LINE	
STD. 6" CONCRETE CURB	
PARKING SPACE COUNT	
CONCRETE SIDEWALK	
SITE	
SITE NAME:	EQUIPMENT SHARE
LOCATION:	NORTH EAST OF 3447 N STAR RD, COTTAGE GROVE, WI 53527
PARCEL AREA:	228,563 SF 5.247 ACS
CURRENT ZONING:	GC (GENERAL COMMERCIAL)
PROPOSED ZONING:	GC (GENERAL COMMERCIAL)
REZONING REQUIRED:	YES
PARKING	
REQUIRED SPACES:	NA
PROPOSED SPACES:	23 SPACES (PROPOSED)
BUILDING SETBACKS	
FRONT YARD SETBACK:	30'
SIDE (E&W) SETBACK:	10'
REAR SETBACK:	10'
LANDSCAPE BUFFERS	
FRONT BUFFER:	NA
SIDE BUFFER:	NA
REAR BUFFER:	NA

CONCEPTUAL PLAN NOTES:

CONDITIONS MAY EXIST THAT COULD RESTRICT THE DEVELOPMENT OF THIS SITE AS SHOWN. BOWMAN DOES NOT PURPORT THAT THIS SITE CAN BE DEVELOPED AS SHOWN. THE PURCHASE OF THIS SITE SHALL BE AT THE OWNER/DEVELOPER'S SOLE EXPENSE.

NO SITE VISITS HAVE BEEN PERFORMED TO ENSURE THE ACCURACY OF THE AERIAL IMAGE SHOWN HEREON.

THIS EXHIBIT IS NOT INTENDED TO BE USED AS A CONSTRUCTION DOCUMENT, AND SHOULD NOT BE CONSTRUED IN ANYWAY TO BE USED FOR CONSTRUCTION PURPOSES.

PROPERTY LINES SHOWN ARE FROM COUNTY GIS AND ARE FOR CONCEPTUAL PURPOSES ONLY.

REVISION	DESCRIPTION	DATE

CONCEPT PLAN

EQUIPMENT SHARE
N STAR RD,
COTTAGE GROVE, WI 53527

FOR PRELIMINARY REVIEW ONLY		
DESIGN AM	DRAWN AM	CHKD PK
JOB No.		
SHEET 1.0		

PROPOSED LEGEND

- PROPOSED BUILDING
- PROPERTY LINE
- PROPOSED CURB & GUTTER
- GRAVEL YARD
- SIDEWALK
- SECURITY FENCE
- SITE LIGHT

EXISTING LEGEND

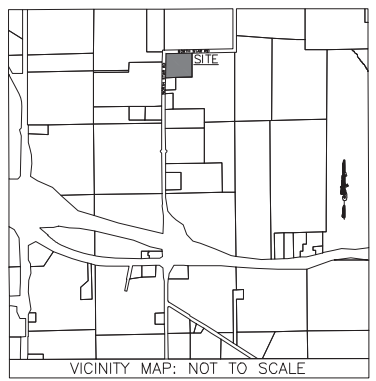
- EXISTING WATER LINE # W
- PROPERTY BOUNDARY
- EXISTING SETBACK
- EXISTING POND
- EXISTING FACE OF CURB
- EXISTING SANITARY SEWER LINE # SS
- EXISTING STORM SEWER LINE
- EXISTING OVERHEAD ELECTRIC OHE
- EXISTING POWER POLE & GUY WIRE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING ELECTRIC BOX
- EXISTING BUSH
- EXISTING TREES
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE

GENERAL SITE NOTES

- ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB, PROPERTY LINE OR CENTERLINE OF STRIPING UNLESS OTHERWISE NOTED.
- ALL EXISTING EASEMENTS, RIGHTS-OF-WAY, AND LOT LINES MAY NOT BE SHOWN. REFER TO THE ALTA/NPS LAND TITLE SURVEY PREPARED BY AMERICAN NATIONAL, DATED JUNE 21, 2023 FOR COMPLETE BOUNDARY INFORMATION AND ASSOCIATED ENCUMBRANCES.
- A PRE-CONSTRUCTION MEETING WITH CITY ENGINEER SHALL BE HELD PRIOR TO CONSTRUCTION COMMENCEMENT.
- ALL MECHANICAL EQUIPMENT TO BE ROOF MOUNTED AND SCREENED FROM THE STREET.
- CONTRACTOR TO PROVIDE AS-BUILTS OF ALL IMPROVEMENTS TO THE SITE. AS-BUILTS TO INCLUDE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, PIPES, FITTINGS, STRUCTURES, AND OTHER APPURTENANCES. ELEVATIONS OF PIPES AT CROSSING POINTS MUST BE SUFFICIENT TO IDENTIFY MINIMUM SEPARATION OF UTILITIES. IN ADDITION TO THE AFOREMENTIONED CRITERIA AS-BUILTS MUST MEET ALL LOCAL AND JURISDICTIONAL REQUIREMENTS FOR CERTIFICATION OF CONSTRUCTION.
- ALL AFFECTED SIDEWALKS, RAMPS AND CROSSWALKS, WILL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
- BUILDING SETBACK DIMENSIONS MEASURED TO OUTERMOST ARCHITECTURAL FEATURE. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
- ALL CURB RADI ARE 5' UNLESS SHOWN OTHERWISE.
- PRIOR TO INSTALLATION, CONTRACTOR MUST VERIFY LOCATIONS OF LIGHT POLES, LANDSCAPING AND UTILITIES.
- ROW PERMITS REQUIRED FOR WORK WITHIN ROW.

FLOOD STATEMENT

ACCORDING TO FLOOD INSURANCE RATE MAP (FIRM) MAP NO.55025C0462H DATED SEPTEMBER 17, 2014 PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FOR DANE, WISCONSIN, THIS PROPERTY IS WITHIN ZONE X.



SITE DATA TABLE

PROJECT NAME	EQUIPMENTSHARE
EXISTING ZONING	GC GENERAL COMMERCIAL
PROPOSED USE	MI MANUFACTURING & INDUSTRIAL
LOT AREA/SF AND AC	228,563 SF/5.25 AC
BUILDING AREA (GROSS SQUARE FOOTAGE)	9,972 SF
TOTAL PARKING REQUIRED	1 PARKING SPACE PER 500 SF OF GFA
TOTAL PARKING PROVIDED	1:500 = 9,972/500 = 20
TOTAL PARKING PROVIDED	25 (INCLUDING ACCESSIBLE STALLS)
BUILDING SETBACK	30'
IMPERVIOUS LAND COVER	44,707 SF / 19.6%
PERVIOUS LAND COVER	183,856 SF / 80.4%

NOTES

- 1N PARKING STALL STRIPING
- 2N SECURITY FENCING
- 3N 30' SLIDING GATE
- 4N END CURB
- 5N HEAVY DUTY CONCRETE PAVEMENT
- 6N LIGHT DUTY CONCRETE PAVEMENT
- 7N FUEL ISLAND (REFER TO BUILDING PLANS)
- 8N LIGHT POLES
- 9N ELECTRIC VEHICLE CHARGING STATION
- 10N SWALE
- 11N PROPOSED SEPTIC FIELD
- 12N PROPOSED WELL

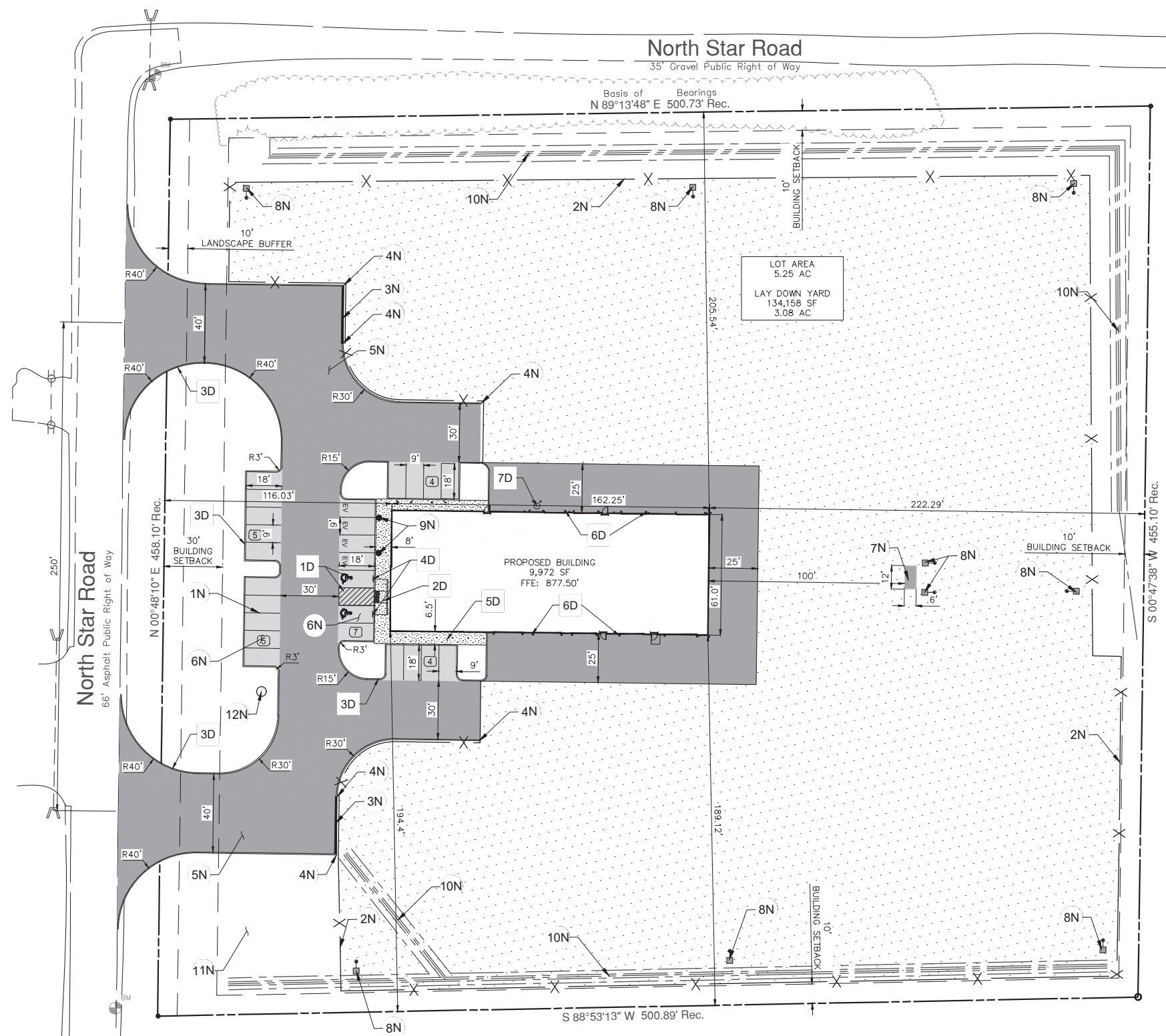
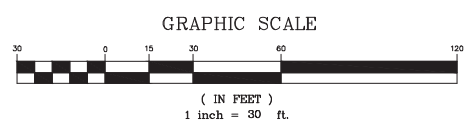
DETAILS

- 1D ADA PARKING AND STRIPING
- 2D ADA RAMP
- 3D 6" CONCRETE CURB & GUTTER
- 4D ADA SIGN
- 5D SIDEWALK
- 6D CONCRETE BOLLARDS
- 7D AIR COMPRESSOR

PAVING LEGEND

- DRIVEWAY & FUEL ISLAND
HEAVY DUTY CONCRETE
- 7" PCC OVER 6" LIME TREATED SUBGRADE
NO. 4 REBAR @ 18" O.C.E.W.
- PARKING AREA
LIGHT DUTY CONCRETE
- 5" PCC OVER 6" REWORKED SUBGRADE
NO. 3 REBAR @ 18" O.C.E.W.
- GRAVEL YARD PAVING REQUIREMENTS
FROM GEOTECH

REFER TO GEOTECHNICAL REPORT ECS SOUTHWEST LLP DATED 07/31/2023 FOR MORE DETAILS



STIPULATION FOR REUSE
THIS DRAWING IS NOT TO BE REUSED FOR USE ON A PROJECT CONTAINING HAZARDOUS MATERIALS WITHOUT THE WRITTEN CONSENT OF pb2 ARCHITECTURE + ENGINEERING. ANY REUSE OF THIS DRAWING FOR OTHER PROJECTS WITHOUT THE WRITTEN CONSENT OF pb2 ARCHITECTURE + ENGINEERING SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO pb2 ARCHITECTURE + ENGINEERING.

EQUIPMENT SHARE - HUNTSVILLE, TX
600 I-45
HUNTSVILLE, TX 77320

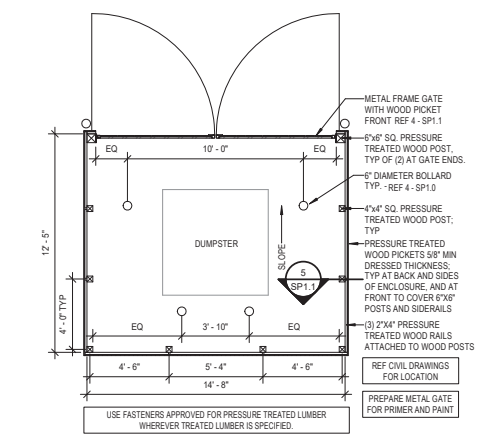
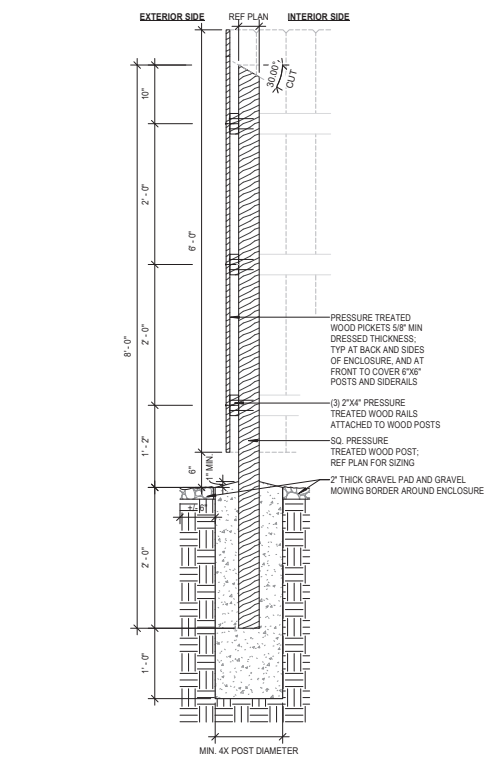
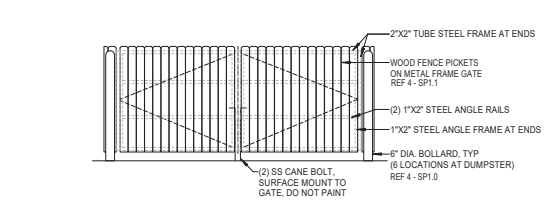
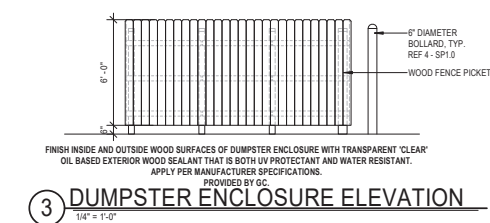
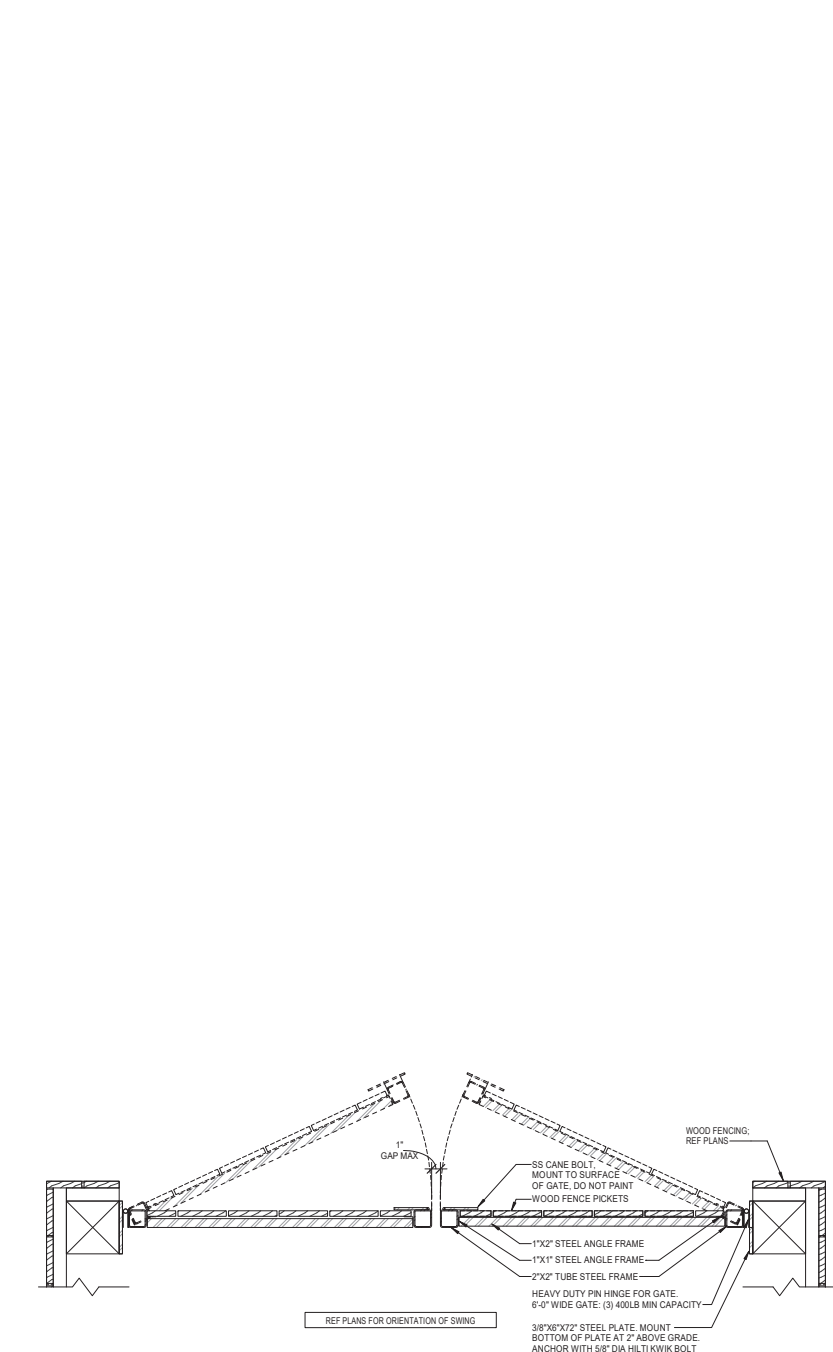
JOB NUMBER: 2022.0823

ISSUE BLOCK

OTF	05.05.2023
PR1 PLAN REV 1	07.28.2023

CHECKED BY: SJB
DRAWN BY: HLB
DOCUMENT DATE: 05.05.2023

THE DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF pb2 ARCHITECTURE + ENGINEERING. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF pb2 ARCHITECTURE + ENGINEERING.



SITE DETAILS

SHEET: SP.1.1

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Prevail LED

Area / Site Luminaire

Product Features



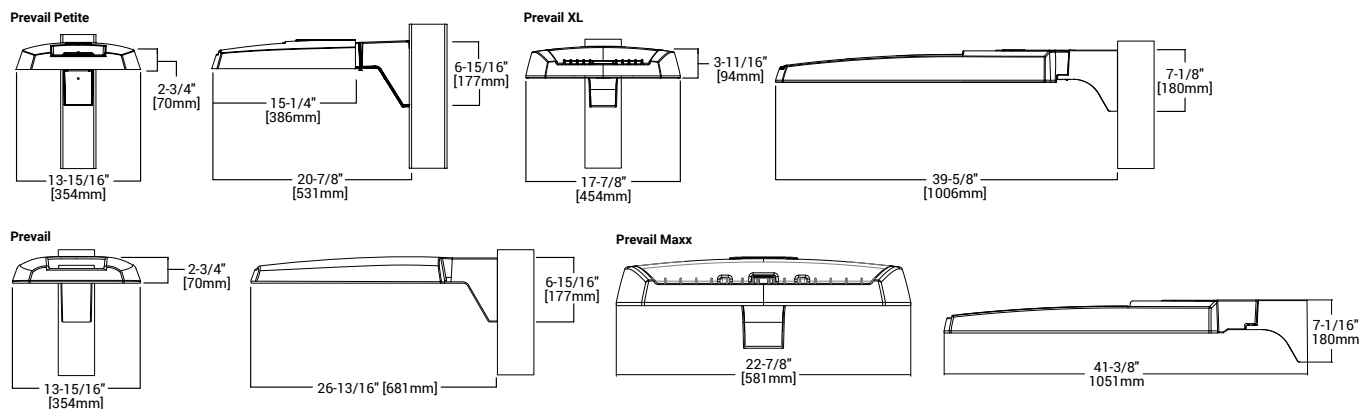
Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6, 7](#)
- Control Options [page 8](#)

Quick Facts

- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details



NOTES:
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
 2. IDA Certified for 3000K CCT and warmer only.

Product Certifications



Connected Systems


- WaveLinx

Ordering Information

SAMPLE NUMBER: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family ^{1,2}	Light Engine ⁴	Driver	Voltage	Distribution	Mounting	Color
PRV-P=Prevail Petite BAA-PRV-P=Prevail Petite BAA Compliant ³ TAA-PRV-P=Prevail Petite TAA Compliant ³	C10=(1 LED) 4,900 Nominal Lumens C15=(1 LED) 6,900 Nominal Lumens C20=(1 LED) 9,800 Nominal Lumens C25=(1 LED) 11,800 Nominal Lumens	D=Dimming (0-10V)	UNV=Universal (120-277V) H=High Voltage, 347-480V 8=347V 9=480V ⁵ DV=DuraVolt (277-480V) ^{5,6}	T2=Type II T3=Type III T4=Type IV T5=Type V	SA=QM Standard Versatile Arm MA=QM Mast Arm FMA= Fixed Mast Arm ²⁸ WM=QM Wall Mount Arm ADJA-WM=Adjustable Arm-Wall Mount ²⁹ ADJA=Adjustable Arm-Pole Mount ³⁰ ADJS=Adjustable Arm-Slipfitter, 3" vertical tenon ³⁰ SP2=Adjustable Arm-Slipfitter, 2 3/8" vertical tenon ³⁰	BZ=Bronze AP=Grey BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
PRV=Prevail BAA-PRV=Prevail BAA Compliant ³ TAA-PRV=Prevail TAA Compliant ³	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens					
PRV-XL=Prevail XL BAA-PRV-XL=Prevail XL BAA Compliant ³ TAA-PRV-XL=Prevail XL TAA Compliant ³	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens					
PRV-M=Prevail Maxx BAA-PRV-M=Prevail Maxx BAA Compliant ³ TAA-PRV-M=Prevail MaxxTAA Compliant ³	C200=(9 LED) 48,000 Nominal Lumens C225=(9 LED) 56,000 Nominal Lumens C250=(9 LED) 65,000 Nominal Lumens C275=(9 LED) 73,000 Nominal Lumens					
Options (Add as Suffix)			Accessories (Order Separately) ^{20,21}			
<p>7030=70 CRI / 3000K CCT ⁷ 7050=70 CRI / 5000K CCT ⁷ HSS=House Side Shield ⁸ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right 10K=10kV/10kA UL 1449 Fused Surge Protective Device 20MSP=20kV MOV Surge Protective Device 20K=20kV UL 1449 Fused Surge Protective Device HA=50°C High Ambient Temperature ⁹ PR=NEMA 3-PIN Twistlock Photocontrol Receptacle ¹¹ PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹¹ MS/DIM-L08=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height ^{12,13,22,28} MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting Height ^{12,22,13} MS/DIM-L40=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting ^{12,13}</p> <p>SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height ^{12,14,22,28} SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting Height ^{12,14,22} SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting Height ^{12,14} ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle ¹² ZD= DALI-enabled 4-PIN Twistlock Receptacle ¹² ZW-SWPD4XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22,28} ZW-SWPD5XX=WaveLinx Pro, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17} ZW-SWPD4XX= WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{12,15,16,17,22,28} ZW-SWPD5XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{12,15,16,17} (See Table Below)=LumenSafe Integrated Network Security Camera ^{18,19}</p>			<p>PRVSA-XX=Standard Arm Mounting Kit ²² PRVMA-XX=Mast Arm Mounting Kit ²² PRVWM-XX=Wall Mount Kit ²² PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX=Standard Arm Mounting Kit ²⁹ PRVXLSA-XX=Mast Arm Mounting Kit ²⁹ PRVXLSA-XX=Wall Mount Kit ²⁹ PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁹ PRV-XL-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁹ PRV-XL-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁹ PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit ²⁸ PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit ²⁸ PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit ²⁸ MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238=Tenon Adapter from 2-3/8" to 3" PRV/COB-FDV=Full Drop Visor ²³ PRVXL/COB-FDV=Full Drop Visor ¹⁸ HS/VERD=House Side Shield Kit ^{9,24} VGS-F/B= Vertical Glare Shield Kit, Front/Back ²⁴ VGS-SIDE=Vertical Glare Shield Kit, Side ²⁴ OA/RA1013=Photocontrol Shorting Cap OA/RA1014=NEMA Photocontrol - 120V OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201=NEMA Photocontrol - 347V OA/RA1027=NEMA Photocontrol - 480V FSIR-100=Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) ²⁷ SWPD4-XX=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{15,16,17,26} SWPD5-XX=WaveLinx Sensor, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting ^{15,16,17,26}</p>			
<p>NOTES:</p> <ol style="list-style-type: none"> DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to installation instructions IB500002EN and pole white paper WP513001EN for additional support information. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Standard 4000K CCT and 70CRI. 480V not to be used with ungrounded or impedance grounded systems. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. Use dedicated IES files on product website for non-standard CCTs. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. Controls system is not available in combination with a photocontrol receptacle (PER or PER7) or another controls system (MS, SPB, ZD, or ZW). Option not available with DuraVolt (DV) voltage option. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information. Replace XX with sensor color (WH, BZ, or BK). Only available in PRV-XL configurations C75, C100, C125, C150, or C175. Not available with 347V, 480V, DV, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. Replace XX with paint color. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. Not for use with PRV-XL or PRV-M configurations. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9). This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. Requires 4-PIN twistlock receptacle (ZD or ZW) option. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZD, ZW or LWLR). Operates on 120-347V input voltages. Only for use with PRV-M configurations. Only for use with PRV-XL configurations. Adjustable Arms QM for PRV-P, PRV, PRV-XL; Fixed for PRV-M. 						

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

Product Family	Camera Type	Data Backhaul		
L=LumenSafe Technology 	H=Dome Camera, High Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card	V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	E=Ethernet Networking

Stock Ordering Information

Product Family ¹	Light Engine	Voltage	Distribution
PRVS=Prevail	C15=(1 LED) 7,100 Nominal Lumens C25=(2 LEDs) 13,100 Nominal Lumens C40=(2 LEDs) 17,100 Nominal Lumens C60=(2 LEDs) 20,000 Nominal Lumens	UNV=Universal (120-277V) 347=347V ²	T3=Type III T4=Type IV
PRVS-XL=Prevail XL	C75=(4 LED) 26,100 Nominal Lumens C100=(4 LED) 31,000 Nominal Lumens C125=(4 LED) 36,000 Nominal Lumens C150=(6 LED) 41,100 Nominal Lumens C175=(6 LED) 48,600 Nominal Lumens		
<p>NOTES:</p> <ol style="list-style-type: none"> All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. Only available in PRVS configurations C15, C25, C40 or C60. 			

Mounting Details

Mounting Configurations and EPAs

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

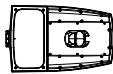
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

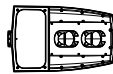
PRV-P-C10/C15/C20/C25
(4,900/6,900/9,800/11,800 Nominal Lumens)



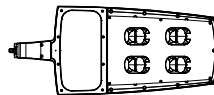
PRV-C15
(7,100 Nominal Lumens)



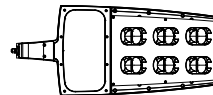
PRV-C25/C40/C60
(13,100/17,100/20,000 Nominal Lumens)



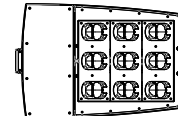
PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



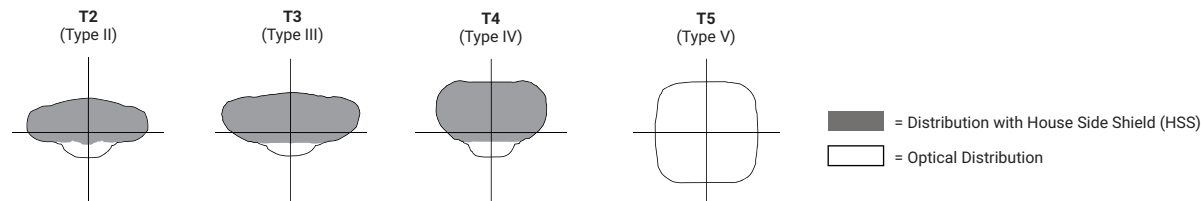
PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



PRV-M-PA6X
(50,000/60,000/70,000/80,000 Nominal Lumens)



Optical Distributions



Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10KV of transient line surge

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Adjustable Arms: 1.5G vibration rated
- Prevail and Prevail Petite: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

[View PRV-P IES files](#)
[View PRV IES files](#)
[View PRV-XL IES files](#)

Power and Lumens

Product Family	Prevail Petite				Prevail				Prevail XL				Prevail Maxx					
Light Engine	C10	C15	C20	C25	C15	C25	C40	C60	C75	C100	C125	C150	C175	C200	C225	C250	C275	
Power (Watts)	35	49	73	94	52	96	131	153	176	217	264	285	346	346	418	487	588	
Input Current @ 120V (A)	0.29	0.41	0.61	0.79	0.43	0.80	1.09	1.32	1.50	1.84	2.21	2.38	2.92	2.89	3.49	4.06	4.90	
Input Current @ 277V (A)	0.13	0.18	0.27	0.35	0.19	0.35	0.48	0.57	0.66	0.82	0.97	1.04	1.25	1.26	1.51	1.72	2.06	
Input Current @ 347V (A)	0.11	0.16	0.23	0.29	0.17	0.30	0.41	0.48	0.54	0.66	0.79	0.84	1.02	1.00	1.21	1.40	1.70	
Input Current @ 480V (A)	0.08	0.12	0.17	0.22	0.12	0.22	0.30	0.35	0.40	0.48	0.57	0.62	0.74	0.73	0.88	1.00	1.21	
Distribution ¹																		
Type II	4000K Lumens	4,775	6,717	9,542	11,521	7,123	13,205	17,172	20,083	26,263	31,231	36,503	41,349	48,876	50,349	59,444	68,447	79,322
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	122	137	138	131	131	149	144	138	145	141	146	142	141	135
	3000K Lumens ¹	4,869	6,595	9,369	11,312	6,994	12,965	16,860	19,718	25,786	30,664	35,840	40,598	47,989	49,437	58,368	67,208	77,886
Type III	4000K Lumens	4,782	6,727	9,556	11,538	7,111	13,183	17,144	20,050	26,120	31,061	36,304	41,124	48,610	50,162	59,223	68,193	79,027
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	138	137	131	123	137	137	131	131	148	143	138	144	140	145	142	140	135
	3000K Lumens ¹	4,695	6,605	9,383	11,329	6,982	12,944	16,832	19,686	25,646	30,497	35,645	40,377	47,727	49,254	58,151	66,958	77,596
Type IV	4000K Lumens	4,880	6,865	9,752	11,774	7,088	13,140	17,087	19,984	26,098	31,035	36,274	41,089	48,569	50,575	59,711	68,754	79,678
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	141	140	134	125	136	137	130	131	148	143	137	144	140	146	143	141	136
	3000K Lumens ¹	4,792	6,740	9,575	11,561	6,959	12,901	16,777	19,621	25,624	30,471	35,615	40,343	47,687	49,659	58,630	67,510	78,235
Type V	4000K Lumens	5,067	7,128	10,126	12,226	7,576	14,045	18,264	21,360	28,129	33,450	39,097	44,287	52,349	53,531	63,201	72,773	84,335
	BUG Rating	B3-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	145	139	130	146	146	139	140	160	154	148	155	151	155	151	150	144
	3000K Lumens ¹	4,975	6,999	9,942	12,004	7,438	13,790	17,932	20,972	27,618	32,843	38,387	43,483	51,398	52,562	62,057	71,455	82,808

NOTES:
1. For 3000K, 5000K or HSS data, refer to published IES files.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Prevail and Prevail Petite at 25°C	91.30%	> 194,000
Prevail and Prevail Petite at 40°C	87.59%	> 134,000
Prevail XL at 25°C	91.40%	> 204,000
Prevail XL at 40°C	89.41%	> 158,000
Prevail Maxx at 25°C	91.40%	> 204,000
Prevail Maxx at 40°C	89.41%	> 158,000

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and medium design. The small housing is available in 12W, 18W and 26W. The medium housing is available in the 38W model. Patented secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three half-inch, NPT threaded conduit entry points. The universal back box supports both the small and medium forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Available in seven lumen packages; 5000K, 4000K and 3000K CCT.

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 12W, 18W, 26W and 38W series operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Three half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized

Catalog #		Type
Project		
Comments		Date
Prepared by		

electrical wiring compartment.

Integral LED electronic driver is standard 0-10V dimming. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life. Options to meet Buy American and other domestic preference requirements.

Warranty

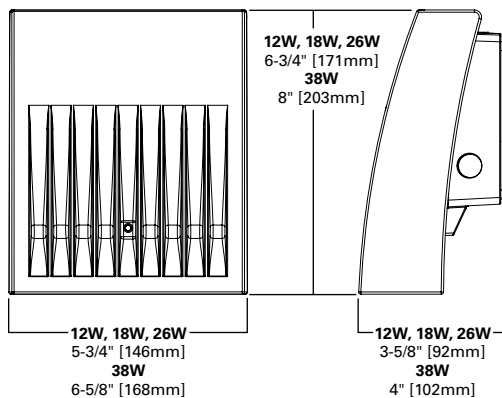
Five-year warranty.



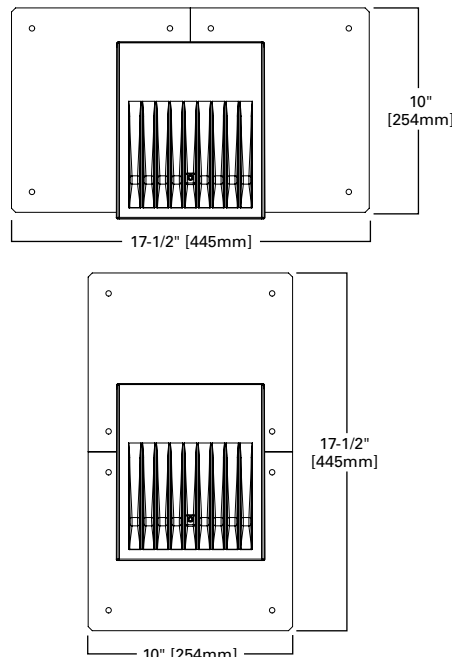
XTOR CROSSTOUR LED

APPLICATIONS:
WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Title 24 Compliant
DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

Effective Projected Area (Sq. Ft.):
XTOR1B, XTOR2B, XTOR3B=0.34
XTOR4B=0.45

SHIPPING DATA:

Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

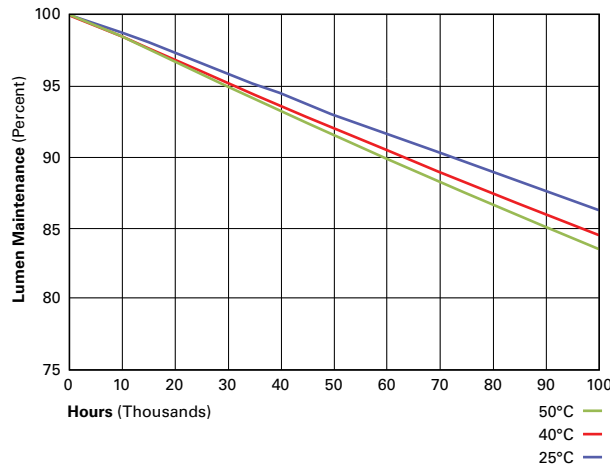
POWER AND LUMENS BY FIXTURE MODEL

LED Information	XTOR1B	XTOR1B-W	XTOR1B-Y	XTOR2B	XTOR2B-W	XTOR2B-Y	XTOR3B	XTOR3B-W	XTOR3B-Y	XTOR4B	XTOR4B-W	XTOR4B-Y
Delivered Lumens (Wall Mount)	1,418	1,396	1,327	2,135	2,103	1,997	2,751	2,710	2,575	4,269	4,205	3,995
Delivered Lumens (With Flood Accessory Kit) ¹	1,005	990	940	1,495	1,472	1,399	2,099	2,068	1,965	3,168	3,121	2,965
B.U.G. Rating ²	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0
CCT (Kelvin)	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000	5,000	4,000	3,000
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70	70	70	70	70
Power Consumption (Watts)	12W	12W	12W	18W	18W	18W	26W	26W	26W	38W	38W	38W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1B Model		
25°C	> 90%	255,000
40°C	> 89%	234,000
50°C	> 88%	215,000
XTOR2B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR3B Model		
25°C	> 89%	240,000
40°C	> 88%	212,000
50°C	> 87%	196,000
XTOR4B Model		
25°C	> 89%	222,000
40°C	> 87%	198,000
50°C	> 87%	184,000



CURRENT DRAW

Voltage	Model Series			
	XTOR1B	XTOR2B	XTOR3B	XTOR4B
120V	0.103A	0.15A	0.22A	0.34A
208V	0.060A	0.09A	0.13A	0.17A
240V	0.053A	0.08A	0.11A	0.17A
277V	0.048A	0.07A	0.10A	0.15A
347V	0.039A	0.06A	0.082A	0.12A

ORDERING INFORMATION

Sample Number: XTOR2B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately) ⁸
XTOR1B =Small Door, 12W XTOR2B =Small Door, 18W XTOR3B =Small Door, 26W XTOR4B =Medium Door, 38W BAA-XTOR1B =Small Door, 12W, Buy American Act Compliant ⁷ TAA-XTOR1B =Small Door, 12W Trade Agreements Act Compliant ⁷ BAA-XTOR2B =Small Door, 18W, Buy American Act Compliant ⁷ TAA-XTOR2B =Small Door, 18W, Trade Agreements Act Compliant ⁷ BAA-XTOR3B =Small Door, 26W, Buy American Act Compliant ⁷ TAA-XTOR3B =Small Door, 26W, Trade Agreements Act Compliant ⁷ BAA-XTOR4B =Medium Door, 38W, Buy American Act Compliant ⁷ TAA-XTOR4B =Medium Door, 38W, Trade Agreements Act Compliant ⁷	[Blank] =Bright White (Standard), 5000K W =Neutral White, 4000K Y =Warm White, 3000K	[Blank] =Carbon Bronze (Standard) WT =Summit White BK =Black BZ =Bronze AP =Grey GM =Graphite Metallic DP =Dark Platinum	PC1 =Photocontrol 120V ² PC2 =Photocontrol 208-277V ^{2,3} 347V =347V ⁴ HA =50°C High Ambient ⁴	WG/XTOR =Wire Guard ⁵ XTORFLD-KNC =Knuckle Floodlight Kit ⁶ XTORFLD-TRN =Trunnion Floodlight Kit ⁶ XTORFLD-KNC-WT =Knuckle Floodlight Kit, Summit White ⁶ XTORFLD-TRN-WT =Trunnion Floodlight Kit, Summit White ⁶ EWP/XTOR =Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT =Escutcheon Wall Plate, Summit White

NOTES:

- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
- Photocontrols are factory installed.
- Order PC2 for 347V models.
- Thru-branch wiring not available with HA option or with 347V. XTOR3B not available with HA and 347V or 120V combination.
- Wire guard for wall/surface mount. Not for use with floodlight kit accessory.
- Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.
- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

STOCK ORDERING INFORMATION

Domestic Preferences ¹	12W Series	18W Series	26W Series	38W Series
[Blank] =Standard	XTOR1B =12W, 5000K, Carbon Bronze	XTOR2B =18W, 5000K, Carbon Bronze	XTOR3B =26W, 5000K, Carbon Bronze	XTOR4B =38W, 5000K, Carbon Bronze
BAA =Buy American Act	XTOR1B-WT =12W, 5000K, Summit White	XTOR2B-W =18W, 4000K, Carbon Bronze	XTOR3B-W =26W, 4000K, Carbon Bronze	XTOR4B-W =38W, 4000K, Carbon Bronze
TAA =Trade Agreements Act	XTOR1B-PC1 =12W, 5000K, 120V PC, Carbon Bronze	XTOR2B-WT =18W, 5000K, Summit White	XTOR3B-WT =26W, 5000K, Summit White	XTOR4B-WT =38W, 5000K, Summit White
	XTOR1B-W =12W, 4000K, Carbon Bronze	XTOR2B-PC1 =18W, 5000K, 120V PC, Carbon Bronze	XTOR3B-PC1 =26W, 5000K, 120V PC, Carbon Bronze	XTOR4B-PC1 =38W, 5000K, 120V PC, Carbon Bronze
		XTOR2B-W-PC1 =18W, 4000K, 120V PC, Carbon Bronze	XTOR3B-W-PC1 =26W, 4000K, 120V PC, Carbon Bronze	XTOR4B-W-PC1 =38W, 4000K, 120V PC, Carbon Bronze
		XTOR2B-347V =18W, 5000K, Carbon Bronze, 347V	XTOR3B-347V =26W, 5000K, Carbon Bronze, 347V	XTOR4B-347V =38W, 5000K, Carbon Bronze, 347V
		XTOR2B-WT-PC1 =18W, 5000K, 120V PC, Summit White	XTOR3B-PC2 =26W, 5000K, 208-277V PC, Carbon Bronze	

NOTES:

- Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC PREFERENCES](#) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

DESCRIPTION

The Night Falcon™ LED floodlight luminaire combines high-efficiency optics, superior thermal management and energy efficiency in a cost-effective solution. The compact, robust design incorporates a separate driver compartment for maximum heat dissipation to insure longevity of both the fixture and the LEDs. The Night Falcon luminaire uses precision engineered optics delivering superior uniformity and excellent illumination to the targeted application. Typical applications include area lighting for security, building facade lighting, accent and signage lighting in both commercial and industrial applications. The Night Falcon luminaire is UL/cUL listed for wet locations and is IP66 rated.

SPECIFICATION FEATURES

Construction

Heavy-duty, die-cast aluminum housing, driver compartment and driver housing door. A separate driver compartment and external fins provide optimal thermal management that result in longer LED and driver life. The housing, driver compartment and optical chamber are IP66 rated. Access to the driver for maintenance is achieved with a removable driver door using pan head screws. A one-piece silicone gasket seals the door to the fixture housing. The fixture is 3G vibration rated (ANSI C136.31) to ensure durability in area and site lighting applications. Suitable for mounting within 4' (1.2m) of the ground.

Optics

The LED chamber incorporates a vacuum metalized reflector that provides high-efficiency illumination. Optics are precisely designed to shape the the NEMA 6H x 6V wide distribution and the 3H x 3V spot distribution, maximizing efficiency and application spacing. Clear glass tempered lens with full circumference form-in-place silicone gasket protects the optics from damage. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 5700K, 5000K and 3000K CCT and minimum 70 CRI are available.

Electrical

LED driver is mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Integral 6kV surge is standard. 10kV/10kA common- and differential- mode surge protection available as an option. 0-10V dimming driver is available to accommodate controls capability such as dimming and occupancy. Standard NEMA 3-PIN twistlock photocontrol receptacle and NEMA 7-PIN twistlock photocontrol receptacles are available as options. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA (high ambient) available. 92% lumen maintenance greater than 60,000 hours per IESNA TM-21 at 25°C.

Accessories

Heavy-duty steel top and side visors control glare and spill light. 1/8" thick UV stabilized vandal guard shields glass lens from impact when mounted at low levels. Easy to install wire guard features a heavy-gauge welded construction with corrosion resistant polyester powder coat finish to protect glass from projected objects.

Catalog #		Type
Project		
Comments		Date
Prepared by		

Mounting

Mounting options include an integral die-cast aluminum slipfitter that is preset to a tilt of 45°. The knuckle base is supplied with a tooth lock adjustment that can be adjusted in 5° increments to provide flexibility in aiming the fixture from a variety of surfaces. Visual 15° adjustment indicators on the knuckle allow for 180° field rotation of the floodlight assembly. The slipfitter fits standard 2-3/8"-3" O.D. tenon. The trunnion mounting includes a 3/16" polyester powder coated galvanized steel trunnion with a 16/3 SOW cord. The trunnion mount uses an interlocking slide adjustment that is locked into place with a set screw.

Finish

Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is carbon bronze. Additional colors available in summit white, white, grey, bronze, black, dark platinum and graphite metallic. Consult your lighting representative at Eaton for a complete selection of standard colors.

Warranty

Five-year warranty.



NFFLD NIGHT FALCON

Solid State LED

FLOODLIGHT



CERTIFICATION DATA

UL/cUL Wet Location Listed
IP66 Fixture and Optical Chamber
LM79/LM80 Compliant
3G Vibration Rated
RoHS Compliant
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
> 0.9 Power Factor
< 20% Total Harmonic Distortion
120V 50/60Hz, 347V/60Hz and 480V/60Hz
-40°C Minimum Ambient Temperature Rating
+40°C Maximum Ambient Temperature Rating

EPA

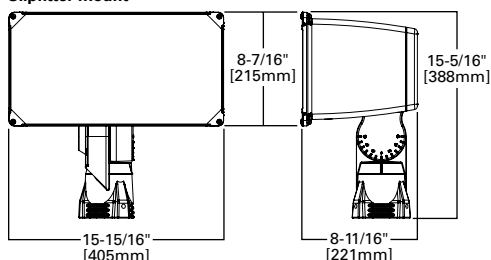
Effective Projected Area (Sq. Ft.): 1.25

SHIPPING DATA

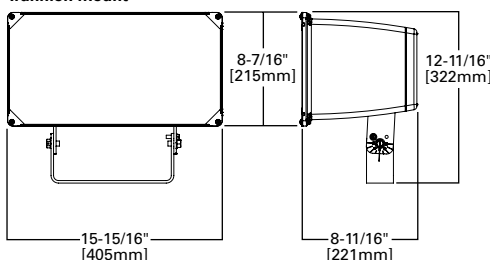
Approximate Net Weight:
20 lbs. (9.09 kgs.)

DIMENSIONS

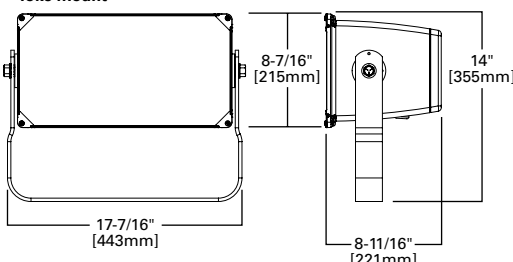
Slipfitter Mount



Trunnion Mount



Yoke Mount



POWER AND LUMENS

C25 LED	6x6				3x3			
	NFFLD-C25	NFFLD-C25-7030	NFFLD-C25-7050	NFFLD-C25-7060	NFFLD-C25	NFFLD-C25-7030	NFFLD-C25-7050	NFFLD-C25-7060
Delivered Lumens	10,530	10,122	10,383	10,217	10,272	9,874	10,128	9,967
CCT (Kelvin)	4000K	3000K	5000K	5700K	4000K	3000K	5000K	5700K
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70
Power Consumption (Watts)	85W	85W	85W	85W	93W	93W	93W	93W
C40 LED	NFFLD-C40	NFFLD-C40-7030	NFFLD-C40-7050	NFFLD-C40-7060	NFFLD-C40	NFFLD-C40-7030	NFFLD-C40-7050	NFFLD-C40-7060
Delivered Lumens	16,932	16,268	16,686	16,421	14,113	13,567	13,916	13,694
CCT (Kelvin)	4000K	3000K	5000K	5700K	4000K	3000K	5000K	5700K
CRI (Color Rendering Index)	70	70	70	70	70	70	70	70
Power Consumption (Watts)	128W	128W	128W	128W	143W	143W	143W	143W
C55 LED	NFFLD-C55	NFFLD-C55-7030	NFFLD-C55-7050	NFFLD-C55-7060				
Delivered Lumens	19,943	19,407	20,144	20,285				
CCT (Kelvin)	4000K	3000K	5000K	5700K				
CRI (Color Rendering Index)	70	70	70	70				
Power Consumption (Watts)	145W	145W	145W	145W				
C70 LED	NFFLD-C70	NFFLD-C70-7030	NFFLD-C70-7050	NFFLD-C70-7060				
Delivered Lumens	23,797	23,157	24,037	24,205				
CCT (Kelvin)	4000K	3000K	5000K	5700K				
CRI (Color Rendering Index)	70	70	70	70				
Power Consumption (Watts)	184W	184W	184W	184W				

CURRENT DRAW

Voltage (V)	Model Series					
	6x6				3x3	
	NFFLD-C25	NFFLD-C40	NFFLD-C55	NFFLD-C70	NFFLD-C25	NFFLD-C40
	Current (A)	Current (A)	Current (A)	Current (A)	Current (A)	Current (A)
120V	0.708	1.070	1.2299	1.5695	0.778	1.190
277V	0.340	0.465	0.535	0.6726	0.340	0.531
347V	0.251	0.377	0.4213	0.5334	0.271	0.419
480V	0.195	0.273	0.3044	0.3831	0.207	0.320

LUMEN MAINTENANCE

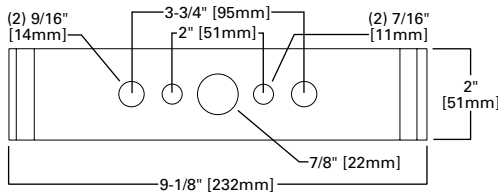
Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
6H x 6V (Wide)		
25°C	> 94.55%	> 388,000
40°C	> 93.58%	> 327,000
50°C	--	--
3H x 3V (Spot)		
25°C	>92.18%	>262,000
40°C	>91.81%	>249,000

LUMEN MULTIPLIER

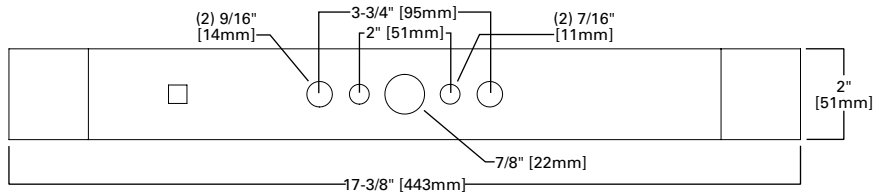
Ambient Temperature	Lumen Multiplier
10°C	1.03
15°C	1.02
25°C	1.00
40°C	0.97
50°C	0.96

DRILLING PATTERNS

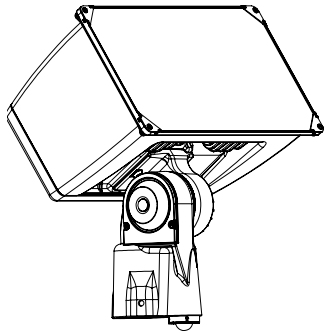
Trunnion Mount



Yoke Mount

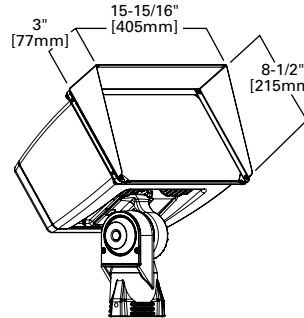


OPTIONAL INTEGRATED SENSOR

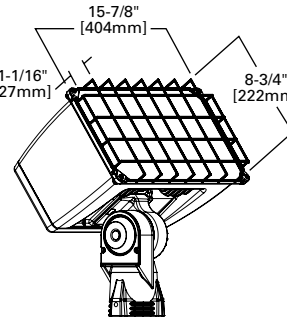


ACCESSORIES

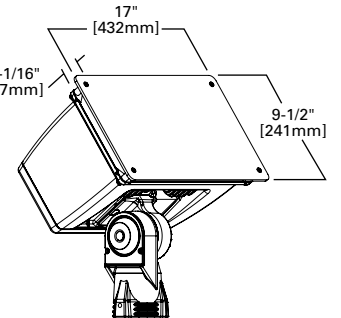
Top and Side Visors



Wire Guard



Vandal Shield



CONTROL OPTIONS

0-10V (D)

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

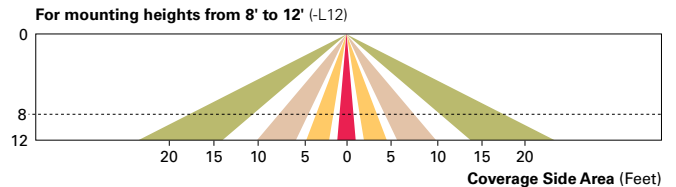
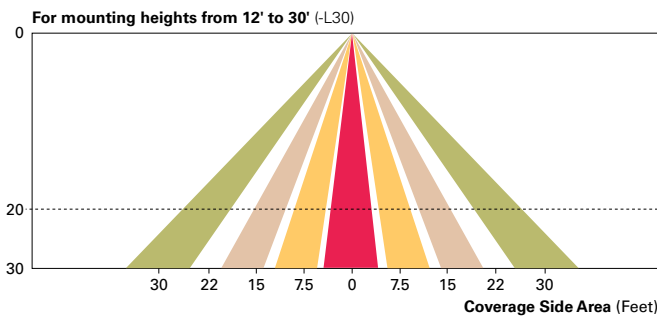
Photocontrol (PER and PER7)

Photocontrol receptacles (PER and PER7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (MSP/DIM-LXX and MSP-LXX)

These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

These occupancy sensors includes an integral photocell that can be activated with the ISHH-01 accessory for “dusk-to-dawn” control or daylight harvesting -- the factory preset is OFF. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.



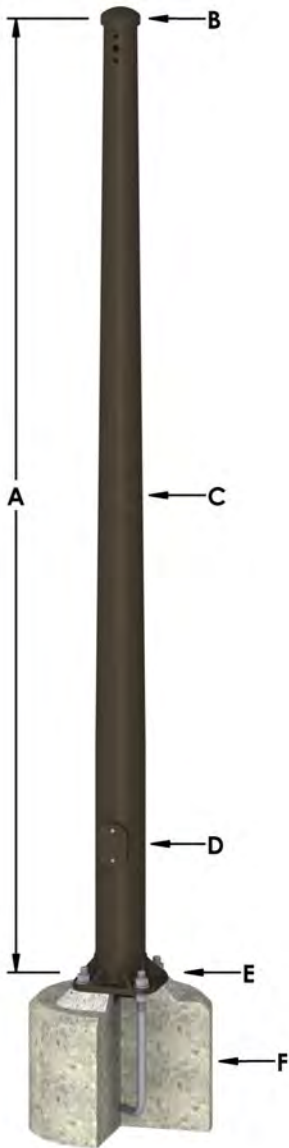
WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

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

PROJECT NAME

GENERATION DATE **7/28/2023**

CATALOG NUMBER **RTAP35 - 8 - 9 - BRZ - DM10 - BC - VDP**



A – POLE SHAFT

The pole shaft is a seamless 6063-T6 aluminum alloy extrusion and shall comply with metallurgical and mechanical properties set forth in the Aluminum Association Standards.

HEIGHT	BASE OD	TOP OD	GAUGE	WEIGHT	EPA MAX LOAD 90 MPH AASHTO
35'	8"	4.5"	9	135 lbs	7

B – MOUNTING DESIGNATION

Drilled for 1 Luminaire



C – FINISH

Standard - The standard finish is a polyester thermosetting powder coating applied to the surface of the substrate to a minimum of 3 mils for all color finishes.

FINISH TYPE	COLOR
Standard	Bronze

D – HAND HOLE

An oval reinforced gasketed handhole is located 1'-6" above base with a grounding provision located inside the ring.

WIDTH	LENGTH
4"	8"



E – BASE PLATE

The anchor base is cast from A356 alloy aluminum. All welds are performed in accordance with the American Welding Society specification AWS D1.2, latest edition.

BOLT CIRCLE
11.5"



F – ANCHOR BOLTS

Anchor bolts are of commercial quality hot rolled carbon steel that meets or exceeds yield strength of 55,000 psi. Four properly sized anchor bolts come with all poles unless otherwise specified. Anchor bolts have the threaded end galvanized a minimum of 8 inches per ASTM A153.

WIDTH	LENGTH	HOOK
1"	36"	4"



OPTIONS

Base Cover, VDP

COMMENTS