



CITY OF MILLS
EST. 1921

704 Fourth Street
P.O. Box 789
Mills, WY 82644

Phone: 307-234-6679
Fax: 307-234-6528

Memorandum

TO: Mills City Council
FROM: Megan Nelms, AICP, City Planner
DATE: July 22, 2025
SUBJECT: Hegge Site Development Plan

Case Number: 25.03 DEV

Summary: The applicant is proposing to construct a 5,000 square foot commercial warehouse facility and associated office building. The site consists of two (2) adjacent parcels, an unplatted parcel and Lot 2, Blk 1, Casper Creek Addition, creating a development area approximately 7.87-acres in size. It was annexed into the City of Mills in 2015. There is an existing structure on the unplatted parcel and various commercial items being stored on the property.

The property is bounded on the west by railroad right of way and city owned property to the south. B & B Subdivision is adjacent to the north. There is no dedicated public right-of-way access to the property. Access is obtained via a 30' wide unimproved access easement, recorded via separate instrument (Instrument #893026).

The applicant wishes to discuss required access, right of way dedication and road surface requirements with City Council prior to approval of the Development Plan.

Planning Commission Recommendation: At their July 10, 2025, meeting the Planning & Zoning Commission made a "CONDITIONAL DO PASS" recommendation on the Development Plan, pending completion of all planning considerations, including the submittal of the necessary easement documents for the water line in conjunction with the DEQ Chapter 3 permit. They also recommended allowing the applicant to utilize the existing 30' access easement, and to surface the road with any material type that will ensure the roadway meets the requirements of Section D102.1 of the International Fire Code.

Staff Recommendation: Staff's recommendation APPROVAL of the Development Plan and that the City enter into a Site Plan Agreement with the applicant. Upon Council approval, the remaining planning considerations included in the staff report can be reviewed administratively.

MAHegge Development Plan

Commercial Site Development Plan

Planning Commission Meeting
July 10, 2024

City Council Meeting
July 22, 2025

Applicants: Malik Hegge

Case Number: 25.03 DEV

Agent: Bill Feheringer, CEPI

Summary: The applicant is proposing to construct a 5,000 square foot commercial warehouse facility and associated office building. The site consists of two (2) adjacent parcels, an unplatted parcel and Lot 2, Blk 1, Casper Creek Addition, creating a development area approximately 7.87-acres in size. It was annexed into the City of Mills in 2015. There is an existing structure on the unplatted parcel and various commercial items being stored on the property.

The property is bounded on the west by railroad right of way and city owned property to the south. B & B Subdivision is adjacent to the north. There is no platted, public right-of-way access to the property. Access is obtained via an unimproved access and utility easement, recorded via separate instrument. The applicant wishes to discuss access and surfacing requirements with the Planning & Zoning Commission.

The property is zoned I-1 (Light Industrial District) and the proposed use of the property is permitted within this zone district. The use is also consistent with the City's future land use map and general goals and policies of the City of Mills Master Plan.

Legal Description: Lot 2, Block 1, Casper Creek

Location: The property is located south of Burd Rd, east of Progress Circle. Access is obtained via Dwyer Drive across and unimproved access easement.

Current Zoning: I-1 (Light Industrial)

Adjacent Land Use: North: B & B Subdivision (I-1)

South: Unplatted City owned tract (PLI)

East: DLD Simple Subdivision (I-1)

West: Railroad ROW & Unplatted tracts (UA & I-1)

Planning Considerations:

1. As shown on the proposed subdivision application, access is proposed to be provided via

an existing 30' wide access & utility easement, recorded via separate instrument (#893026).

- a. Per the LDRs, access shall be improved to city standards within the easement/ROW to the property line for commercial/industrial development.
 - a. A turnaround constructed to fire code standards is required on the west end of the access.
 - b. The road surface shall be constructed to withstand 75,000 lbs. utilizing any material type per IFC Section D102.1
 - c. The applicant wishes to pursue a discussion regarding the dedication, width and surfacing of access to the property.
2. Public water service is required to serve the property. A water main shall be constructed to serve the new development. Service lines can only be utilized from a water main to the structure across the property to be served.
 - a. Obtain DEQ permit to construct for the water main.
 - b. Submit for review and record approved easements in favor of the City of Mills for all required water and sewer infrastructure within the access easement.
 - c. Construct a water main to the boundary of the parcel and extend a service line to the structure.
3. Provide additional detail and show the driveway access to the parking area and buildings from the access.
 - a. All required parking spaces and drive aisles and access to the required parking area shall be paved.
4. Submit a landscaping plan providing further detail on the types of plant units to be used for the landscaping, or submit a letter requesting a fee in lieu of landscaping, for consideration by Mills City Council.
5. Provide manufacturer's specifications for all site lighting which depicts shielding for the wall pack lighting which complies with city standards.
6. A statement will be included in the Development Agreement that no further development or subdividing of the property shall occur without a subdivision permit and/or improvement of the access, as applicable.
7. Obtain all required building permits for:
 - a. All structures
 - b. All site lighting
 - c. All on-premise signage.

Staff Recommendation:

Staff recommends the Planning Commission **CONDITIONALLY APPROVE** the Hegge Development Plan to allow discussion and resolution of the resubdivision plat and

access/surfacing issues, and upon satisfactory completion of all planning considerations.

Planning Commission Recommendation:



CITY OF MILLS
APPLICATION FOR SITE PLAN APPROVAL
Pursuant to the City of Mills Zoning Ordinance



City of Mills, Wyoming
704 4th Street (Physical Address)
P.O. Box 789 (Mailing Address)
Mills, Wyoming 82644

PAID
JUN 18 2025

Date: _____
Return by: _____
(Submittal Deadline)
For Meeting on: _____

PLEASE PRINT

SINGLE POINT OF CONTACT: Bill Fehringer

APPLICANT/PROPERTY OWNER(S) INFORMATION:

Print Owner Name: MAHegge, LLC
Owner Mailing Address: PO BOX 1416
City, State, Zip: Mills, WY 82644
Owner Phone: [REDACTED]
Applicant Email: [REDACTED]

AGENT INFORMATION:

Print Agent Name: CEPI
Agent Mailing Address: 6080 Enterprise Drive
City, State, Zip: Casper, WY 82609
Agent Phone: 307-266-4346
Agent Email: [REDACTED]

PROPERTY INFORMATION:

Subject property legal description (attach separate page if long legal): Lot 1, Casper Creek Addition No.3

Physical address of subject property if available: 400 Dwyer Drive

Size of lot(s) sq. ft./acres: 8.33AC

Current zoning: Light Industrial Current use: Commercial

Intended use of the property: Commercial

Zoning within 300 feet: L-I, PL1 Land use within 300 feet: Commercial

ATTACHMENTS (REQUIRED):

1. **Proof of ownership:** X
(such as deed, title certification, attorney's title opinion)
2. **Seven (7) full sized copies of the Site Plan:** X
3. **One reproducible 11 x 17 Site Plan hard copy:** X
4. **One Site Plan electronic copy (pdf):** X

IF APPLICABLE, INCLUDE:

1. Number of employees on the premises: 5
2. Building occupant loading (if recreational, entertainment, place of assembly, a facility or building of similar nature): N/A
3. Number of residential units: N/A
4. Number of off-street parking spaces **provided:** _____
5. Number of off-street parking spaces **required:** _____

SIGNATURE(S):

The following owner's signature signifies that all information on this application is accurate and correct to the best of the owner's knowledge; and that the owner has thoroughly read and understands all application information and requirements. [In addition to the owner's signature(s), if an agent of the owner is to be the contact for all communications relating to this application, please have the agent sign below.]

I (We) the undersigned owner(s) of the property described above do hereby make application to the City of Mills as follows:

OWNER Signature [Signature]

OWNER Signature _____

AGENT Signature _____

FEE: \$10.00 per dwelling unit with a \$250.00 minimum and a \$1000.00 maximum; **plus a recordation fee of \$150.00.**

For Office Use Only: Signature verified: _____ Proof of ownership provided: _____ Fee Paid: \$ _____

\\Lond-2025\Surveying\25-109-Casper Creek Report Drawings\Sheets\25-109 SITE PLAN.dwg, 7/15/2025, Shannon Garrison

- 1

LEGAL DESCRIPTION AND COMMON ADDRESS

LOT 1, CASPER CREEK ADDITION NO. 3
TO THE CITY OF MILLS
NATRONA COUNTY, WYOMING

400 DWYER DRIVE
MILLS, WYOMING 82601
- 5

CURRENT ZONING: I-1 (LIGHT INDUSTRIAL)
PROPOSED ZONING: I-1 (LIGHT INDUSTRIAL)
- 7

AS SHOWN ON PLAN
- 8

BUILDING HEIGHT: 45'
BUILDING SETBACKS: (5' MINIMUM SETBACK)
NORTH - 152.5'
EAST - 312.2'
SOUTH - 165.3'
WEST - 260.0'
- 9

NOT APPLICABLE TO THIS SITE
- 11

AS SHOWN ON SITE PLAN
- 12

NOT APPLICABLE TO THIS SITE
- 13

WALL PACKS SHALL BE WDGE2 LED

- 17

NOT APPLICABLE TO THIS SITE
- 21

GENERAL NOTES

a. TOTAL LAND AREA IN ACRES OR SQUARE FEET; 8.33 ACRES / 342,973 S.F.
b. TOTAL BUILDING AREA IN SQUARE FEET; 6,744 S.F.
c. TOTAL SQUARE FEET OF BUILDING ADDITION; N/A
d. PERCENTAGE OF LAND COVERED BY BUILDINGS; 2.0%
e. BUILDING HEIGHT(S); 45'
f. NUMBER OF STORIES AND SQUARE FOOTAGE OF LEASABLE SPACE (FLOOR AREA); 1 STORY / 6,744 S.F.
g. TOTAL NUMBER OF PARKING SPACES; 7
h. SQUARE FOOTAGE OF PARKING AREA; 1500 S.F.
i. PERCENTAGE OF LAND COVERED BY PARKING; 0.4%
j. SQUARE FOOTAGE OF ALL LANDSCAPED AREAS; 14,246 S.F.
k. PERCENTAGE OF SITE COVERED BY LANDSCAPING; 4.2%
- 22

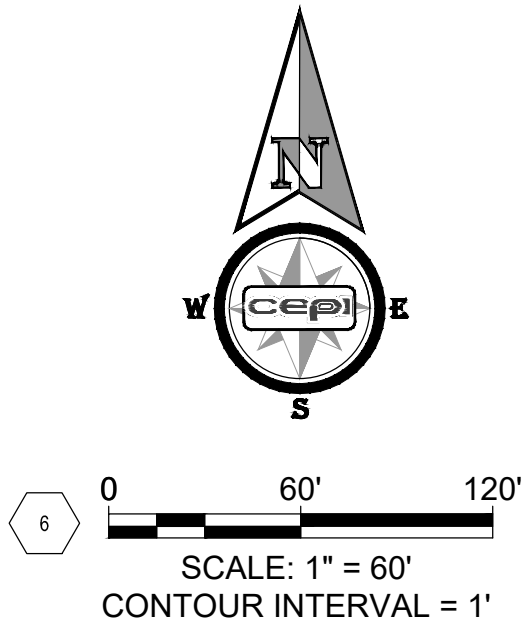
AS SHOWN ON THIS PAGE
- 24

PROVIDED BY OTHERS
- 25

NOT APPLICABLE TO THIS SITE
- 26

NOT APPLICABLE TO THIS SITE
- 27

NOT APPLICABLE TO THIS SITE



- LEGEND

FOUND PROPERTY CORNER AS NOTED

EXISTING FIRE HYDRANT

PROPOSED FIRE HYDRANT

EXISTING WATER VALVE

PROPOSED WATER VALVE

EXISTING SANITARY SEWER MANHOLE

EXISTING WATER LINE

PROPOSED WATER LINE

EXISTING STORM SEWER LINE

EXISTING SANITARY SEWER LINE

PROPOSED SANITARY SEWER LINE

EXISTING FENCE

PROPERTY BOUNDARY

PROPERTY LINES

PROPERTY EASEMENT

EXISTING BUILDING

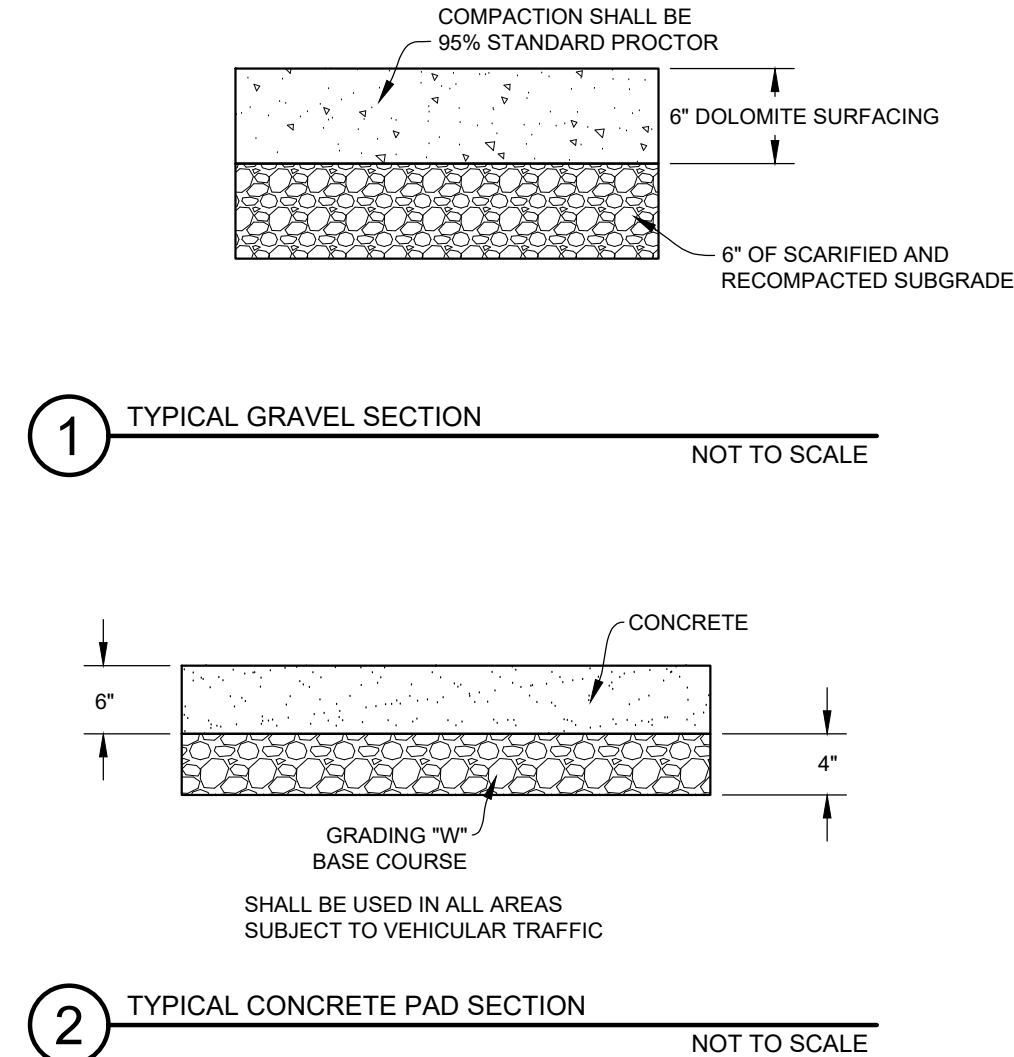
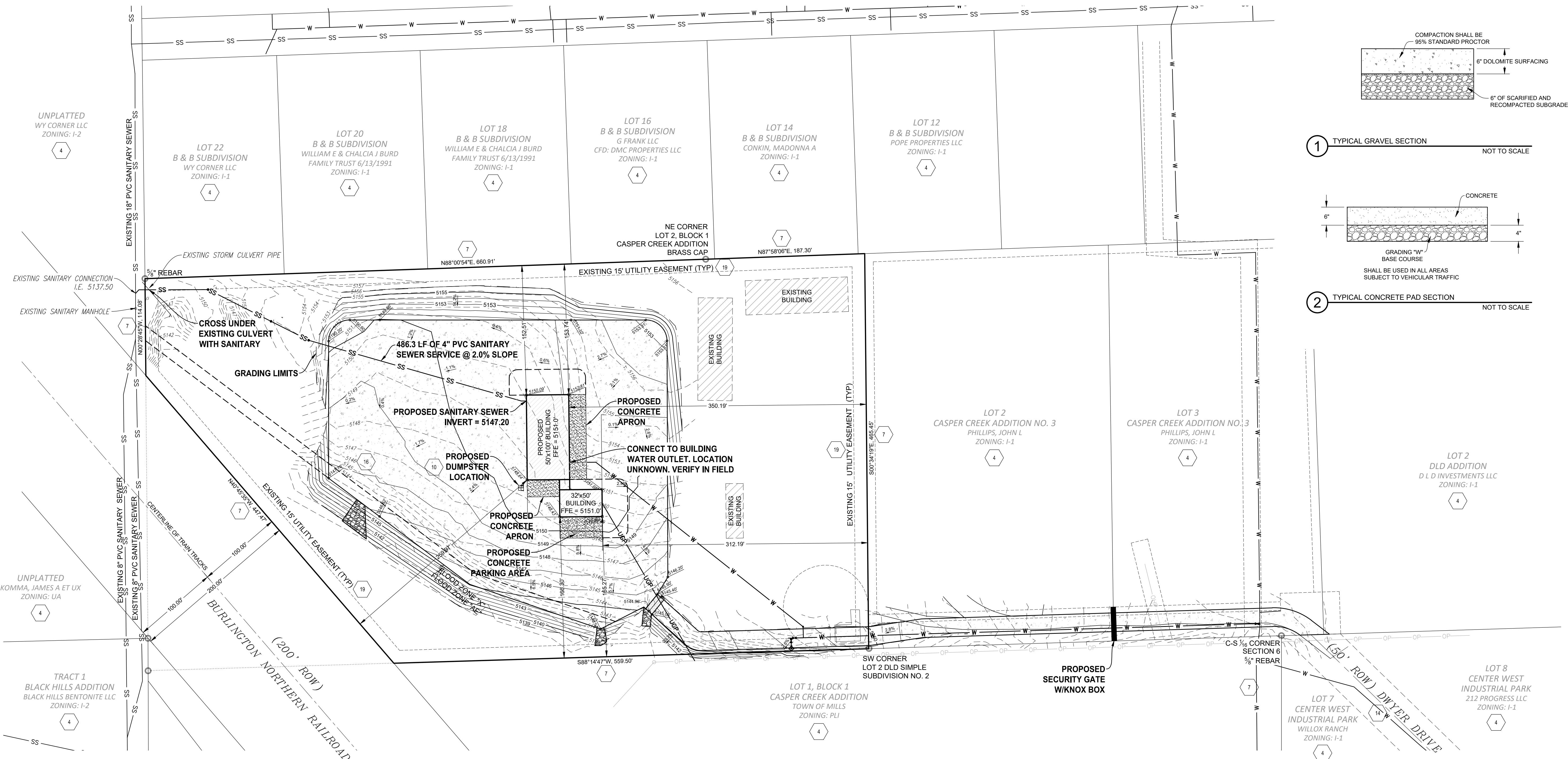
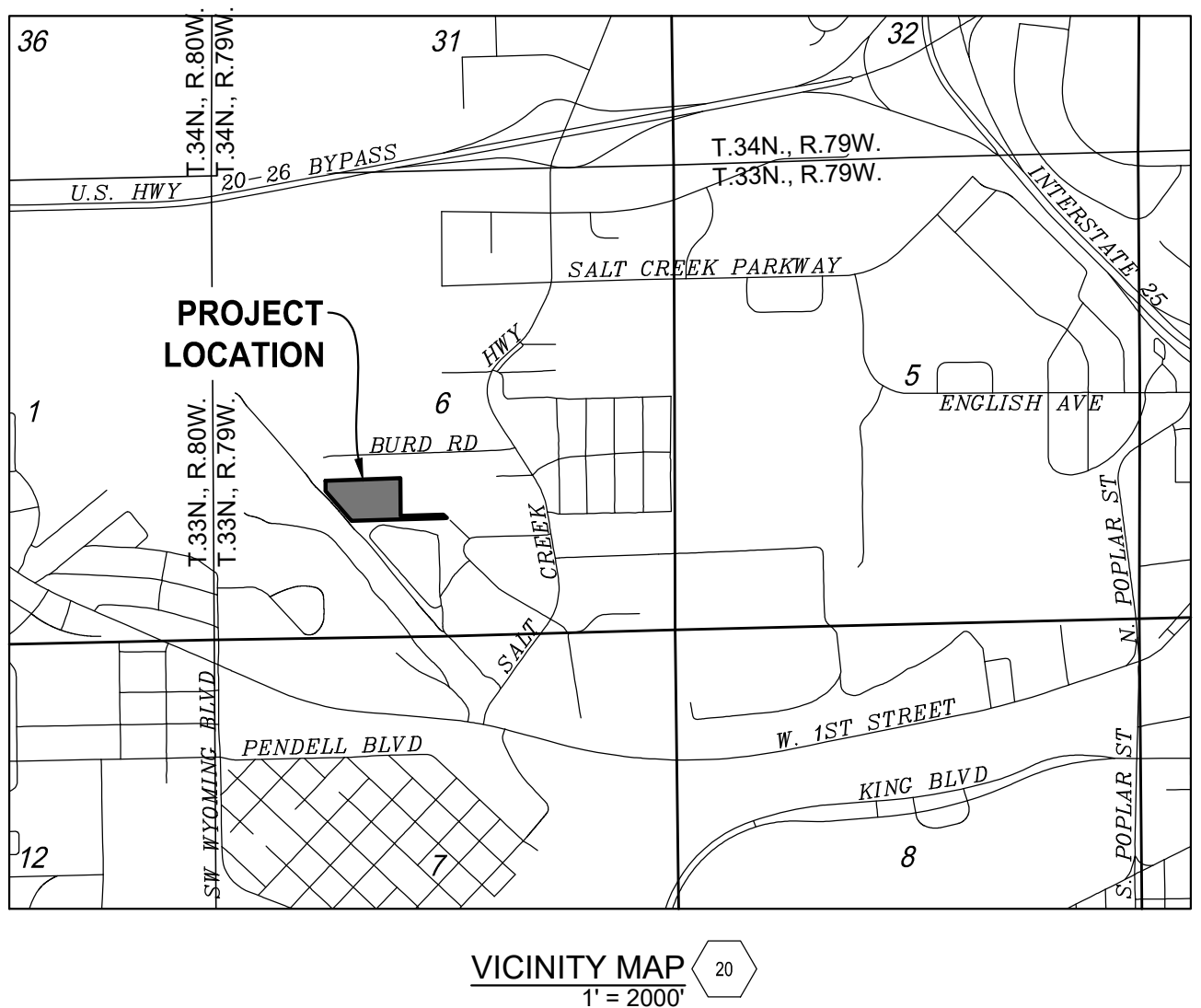
PROPOSED BUILDING

PROPOSED DOLOMITE SURFACING OR SIMILAR

PROPOSED CONCRETE PAVING

EXISTING CONTOURS

PROPOSED CONTOURS



Civil Engineering Professionals, Inc.
6090 E. 1st Avenue, Suite 100
Phone: 307.266.5346 Fax: 307.266.0103
www.cepi-casper.com

DATE:

REVISIONS:

PRELIMINARY

MAHEGGE LLC

NEW BUILDING CONSTRUCTION

MILLS, WYOMING

PROJECT #:

DATE:

DRAWN BY:

25-109

7/15/25

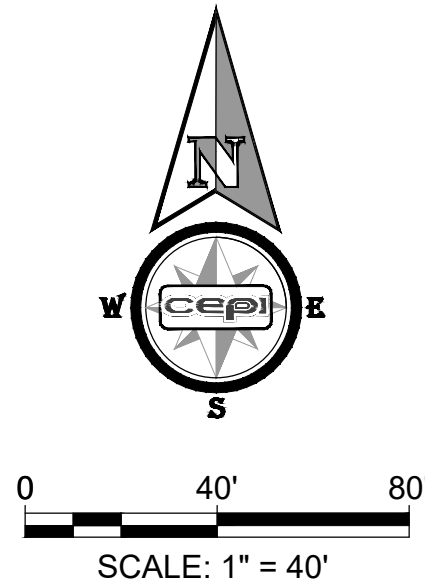
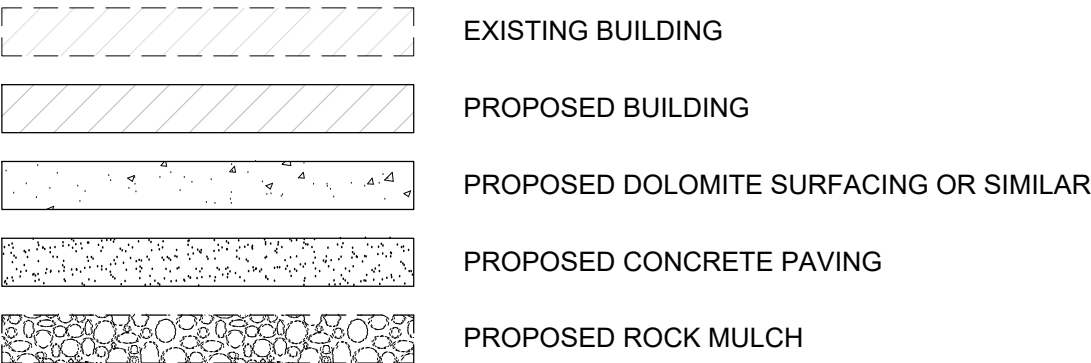
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SITE PLAN

SHEET

C1.0

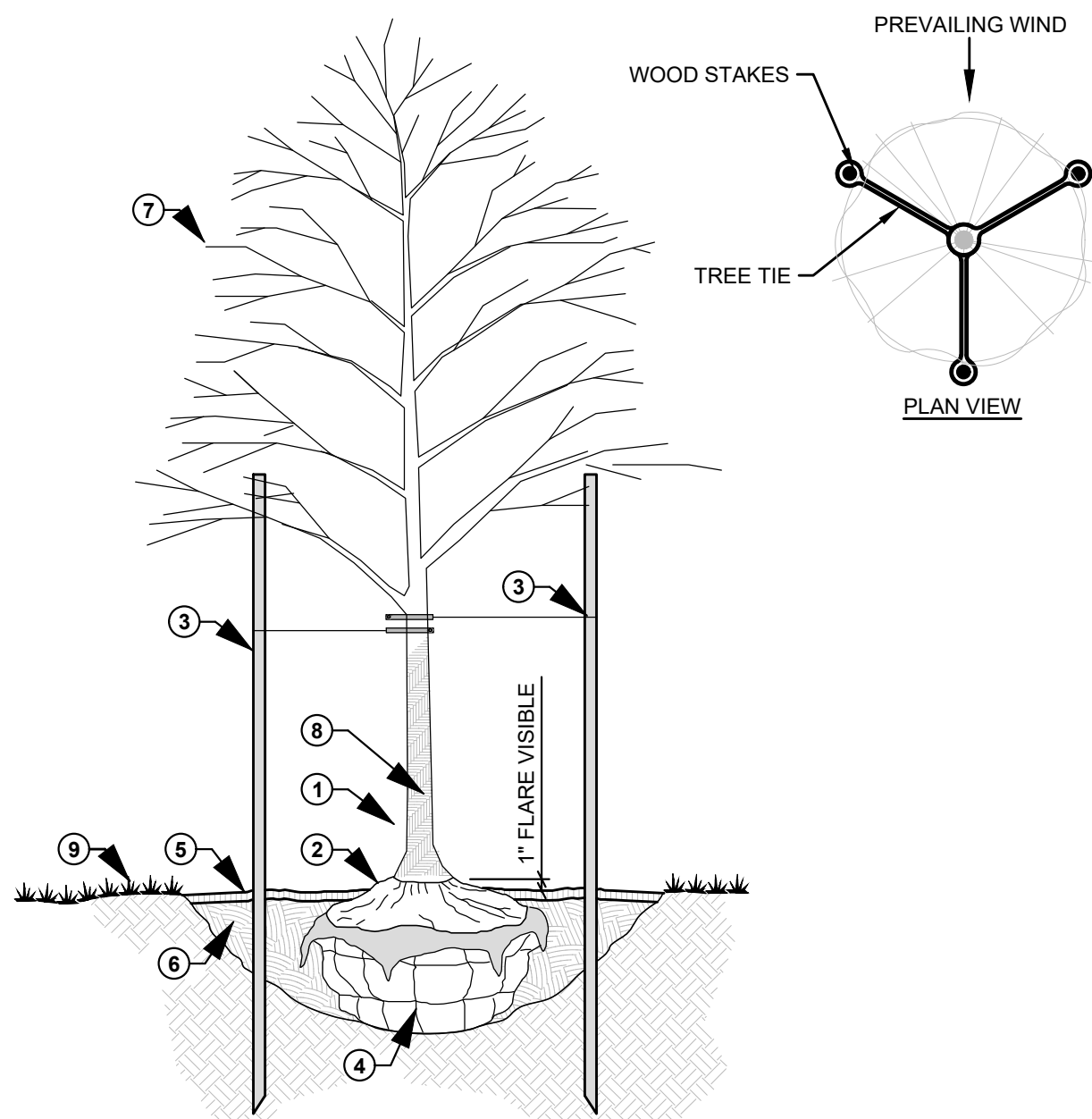
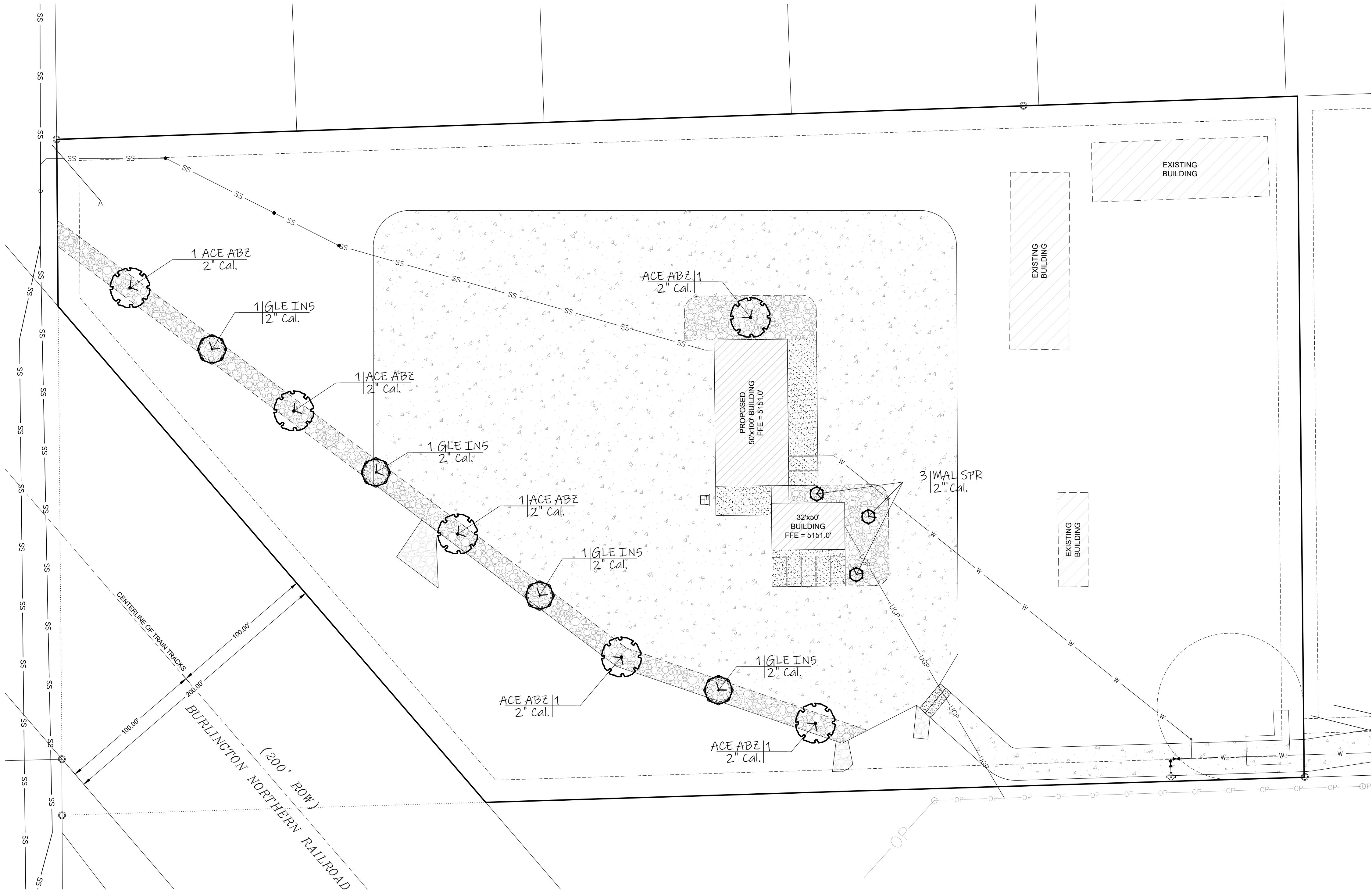
PLANT SCHEDULE					
SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	ROOT
TREES					
	ACE ABZ	6	ACER X FREEMANII 'JEFFERSRED' AUTUMN BLAZE® FREEMAN MAPLE	2" CAL.	B&B
	GLE IN5	4	GLEDTISIA TRIACANTHOS INERMIS 'HARVE' NORTHERN ACCLAIM® HONEY LOCUST	2" CAL.	B&B
	MAL SPR	3	MALUS X 'SPRING SNOW' SPRING SNOW CRABAPPLE	2" CAL.	B&B



LANDSCAPING NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INSTALLATION, EXCAVATION, OR PLANTING OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTORS RESPONSIBILITIES.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF NURSERYMAN'S NATIONAL STANDARD SPECIFICATIONS.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PREPARED AND SEEDED, OR SODDED AS SPECIFIED. A DISTURBED AREA SHALL BE WHERE CONSTRUCTION ACTIVITIES INCLUDING TRENCHING, DEMOLITION, EARTHWORK, MATERIAL STORAGE, EXCAVATION AND PARKING OR ANY OTHER FORM OF EXCAVATION, COMPACTION, OR TRAFFIC THAT RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUND COVER OR GRADE. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL OTHER CONTRACT DOCUMENTS TO DETERMINE FULL SCOPE OF POTENTIAL SITE DISTURBANCE TO BE RECLAIMED.
4. THE INSTALLATION OF LAWNS, PLANT MATERIAL AND IRRIGATION SYSTEM SHALL BE PERFORMED BY ONE CONTRACTOR.
5. CONTRACTOR SHALL FURNISH REQUIRED PLANT MATERIALS, INCLUDING TREES, SHRUBS, GRASSES, AND PERENNIALS OF ALL DESCRIPTIONS, FOR THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATION.
6. IN THE EVENT OF A DISCREPANCY, NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
7. NO TREES SHALL BE PLANTED CLOSER THAN 10' TO A FIRE HYDRANT. ADJUST LAYOUT IF NECESSARY.
8. NO TREE OR SHRUB SHALL BE PLANTED OVER OR WITHIN 5' LATERALLY FROM ANY UNDERGROUND UTILITIES.
9. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE LANDSCAPE ARCHITECT.
10. CONTRACTOR SHALL PROVIDE PLANTS FREE FROM INSECTS AND DISEASES, SUN-SCALD INJURIES, ABRASIONS OF THE BARK, OR OTHER OBSERVABLE BLEMISHES. WEAK AND/OR DISFIGURED PLANTS WILL NOT BE ACCEPTED.
11. CONTRACTOR SHALL PROVIDE FIELD GROWN NURSERY TREES, DUG WITH A BALL OF EARTH STILL INTACT IN WHICH THEY ARE GROWING, WRAPPED IN BURLAP OR OTHER SUITABLE MATERIAL TO COMPLETELY COVER THE ROOT BALL WITH A LACING OR OTHER BALL SUPPORTING DEVICE ON THE OUTSIDE TO HOLD THE BALL IN A FIRM, RIGID CONDITION.
12. CONTAINER GROWN PLANTS SHALL BE HEALTHY, VIGOROUS, AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE GROWN. THEY SHALL HAVE TOPS OF GOOD QUALITY AND BE IN A HEALTHY GROWING CONDITION. THE PLANTS SHALL HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM ROOT BALL.
13. ALL 1.5-2" CALIPER DECIDUOUS TREE SHALL HAVE A SINGLE LEADER, 12-14" HEIGHT, BRANCHING AT 6-7 FT HEIGHT WITH A UNIFORM CANOPY BRANCHING. BRANCHES SHALL HAVE A NO LESS THAN 30°.
14. ALL 6-8" TALL EVERGREEN TREES SHALL HAVE A HEIGHT TO SPREAD RATIO OF 5:3, WITH A SINGLE LEADER.
15. CONTRACTOR SHALL PROVIDE PLANT MATERIAL IN CONFORMANCE WITH STATE AND FEDERAL LAWS WITH RESPECT TO INSPECTION FOR PLANT DISEASE AND INFECTIONS.
16. CONTRACTOR SHALL PROVIDE INSPECTION CERTIFICATES REQUIRED BY LAW WITH EACH SHIPMENT, INVOICE, OR ORDER OF STOCK TO THE OWNER.
17. PLANT MATERIALS FOR THIS PROJECT ARE SUBJECT TO INSPECTION BEFORE, DURING, AND POST PLANTING. DAMAGED PLANT MATERIAL, CONTAINERS, OR LOOSE, TORN, AND BROKEN ROOT BALLS WILL NOT BE APPROVED BY THE OWNER AND WILL BE REPLACED AT THE CONTRACTORS EXPENSE AND MUST BE REMOVED FROM THE STORAGE AREA OR PROJECT.

18. MAINTENANCE SERVICES TO BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR WILL BE EXPECTED TO FURNISH SERVICE AND MAINTENANCE OF ALL PLANTED AREAS THROUGH FINAL COMPLETION OR PROJECT OR AS REQUIRED PER THE REQUIREMENTS OF THE PROJECT WARRANTY PERIOD.
19. ALL PLANT MATERIALS SHALL BE CERTIFIED BY THE STATE DEPARTMENT OF AGRICULTURE TO ASSURE THEM TO BE FREE OF DISEASE OR HAZARDOUS INSECTS.
20. ALL CERTIFIER SHALL BE DELIVERED IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND THE NAME OF THE MANUFACTURER.
21. ALL PLANT MATERIAL SHALL BE DELIVERED TO THE SITE IN THEIR ORIGINAL CONTAINERS WITH ALL LABELS INTACT AND LEGIBLE.
22. CONTRACTOR WILL BE RESPONSIBLE TO PROTECT AND MAINTAIN PLANT LIFE DURING THE STORAGE PERIOD PRIOR TO PLANTING. IN THE INSTALLATION OF PLANT LIFE WILL NOT BE PERMITTED WHEN THE AMBIENT TEMPERATURES MAY DROP BELOW 35°F OR RISE ABOVE 90°F.
23. CONTRACTOR TO PROVIDE A ONE YEAR WARRANTY. WARRANTY TO INCLUDE COVERAGE FOR ONE ENTIRE GROWING SEASON FOR ALL DEAD OR UNHEALTHY PLANTINGS. ALL REPLACEMENT PLANTS SHALL BE REQUIRED TO BE OF THE SAME SIZE AND SPECIES AS SPECIFIED IN THE PLANT SCHEDULE. PLANTED IN THE FOLLOWING GROWING SEASON, WITH A NEW WARRANTY COMMENCING ON THE DATE OF PLACEMENT.
25. SOIL MATERIALS:
 - ALL SOIL BACKFILL WILL BE FREE OF ROCKS LARGER THAN 1" STICKS, ROOTS AND OTHER DEBRIS.
 - TOPSOIL TO BE STERILE, WEED FREE, PROCESSED, AND PASSED THROUGH A 3/4" SCREEN.
 - TOPSOIL TO BE INSTALLED IN ALL NEW SITE LANDSCAPE AREAS, NATIVE GRASS PLANTINGS, AND PLANTING RINGS OR IN ANY AREAS DESIGNATED IN THE PLANS FOR CONSTRUCTION.
26. SOIL AMENDMENT MATERIALS:
 - COMPOST SHALL BE "GLACIER GOLD," SOIL PREP, OR AN APPROVED EQUAL.
 - FERTILIZER SHALL BE 100% ORGANIC, TRANSPANT ROOT STIMULATOR, BIOPLEX TRANSPARENT CONCENTRATE, OR APPROVED EQUAL.
27. BOULDERS ENCOUNTERED DURING EXCAVATION FOR THE PROJECT SHALL BE HANDLED TO PREVENT SCARRING AND USED AS PART OF THE LANDSCAPING SCHEME. PLACE AS DIRECTED BY THE OWNER.
28. WEED BARRIER FABRIC SHALL BE WOVEN POLYPROPYLENE FABRIC, 4.75OZ. SQ.YD. OR HEAVIER WITH METAL LANDSCAPE PINS. DO NOT INSTALL WEED BARRIER UNDER PERENNIALS AND GRASSES.
29. CONTRACTOR SHALL USE 1.5" DIA. ROUND POSTS WITH TAPERED END, 8.0' IN LENGTH OR DUCKBILL ANCHORS FOR TREE ANCHORING.
30. CONTRACTOR SHALL USE 3 ANCHORS FOR DECIDUOUS TREES, 3 ANCHORS FOR CONIFEROUS TREES WITH WEBBING OR RUBBER TREE TIES UNMANUFACTURED SPECIFICALLY FOR USE ON TREES.
31. CONTRACTOR WILL BE RESPONSIBLE TO REMOVE ALL ANCHORING AT THE END OF ONE CONTINUOUS GROWING SEASON.
32. CONTRACTOR SHALL COORDINATE IRRIGATION SYSTEM LAYOUT WITH PLANTINGS.
33. AREAS THAT ARE TOO SMALL TO BE DRILL SEEDED SHALL BE BROADCAST, RAKED IN, AND ROLLED.
34. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



LEGEND

- ① GRAFT UNION TYP. 4-6" ABOVE ROOT FLARE.
- ② ROOT FLARE VISIBLE ABOVE FINISH GRADE. REMOVE EXCESS SOIL FROM BALL AS NEEDED.
- ③ THREE (3) 8" LONG X 1.5" ROUND TAPERED WOOD POSTS PER TREE. 14 GA. SOFT WIRE AND 1-1/2"X18" NYLON STRAP WITH BRASS GRIMMET TIES ON TRUNK. STAKES SHALL NOT PENETRATE ROOT BALL. MAKE TIE 1/4 OF THE WAY UP TREE. DO NOT OVER-TIGHTEN AROUND TREE. TIES SHOULD BE SNUG ENOUGH TO PROVIDE SUPPORT WHILE ALLOWING TREE TO SWAY. CONTRACTOR TO REMOVE STAKES & TIES AT END OF WARRANTY PERIOD.
- ④ REMOVE ALL WIRE BASKET & ALL BURLAP. INSPECT ROOT BALL AND PRUNE OFF AND GIRDLING ROOTS, PRESS ALL HAIR ROOTS DOWN UNDER STRUCTURAL ROOT FLARE TO LEAVE TRUNK & ROOT FLARE RADIALY. BOTTOM OF ROOT BALL TO REST ON UNDISTURBED OR RECOMPACTED SOIL.
- ⑤ 3" MULCH IN TREE'S DRIP RING AREA. NO WEED BARRIER. END MULCH 3" FROM TRUNK.
- ⑥ DIG HOLE MIN. 3x WIDTH OF BALL. ROUGHEN SIDES TO BREAK GLAZING. ROOT BALL TO REST ON UNDISTURBED OR RECOMPACTED SOIL. BACKFILL HOLE WITH EXISTING SOIL (IN SANDY OR SANDY LOAM SOILS, ADD 20% MAX. BY VOLUME ORGANIC MATERIAL, IN LAYERS, SETTLE WITH WATER. WATER IN THOROUGHLY AFTER INSTALLATION TO ELIMINATE AIR POCKETS.
- ⑦ PRUNE AS NEEDED TO RETAIN NATURAL FORM.
- ⑧ ASPHALT COATED PAPER TREE WRAP TO BOTTOM OF FIRST BRANCH, SECURE WITH ECOLINE TAPE. DO NOT WRAP TIGHTLY. CONTRACTOR TO REMOVE PAPER AT END OF WARRANTY PERIOD.
- ⑨ FINISH GRADE - SLOPE AWAY FROM TREES WHEREVER POSSIBLE.

TYPICAL TREE PLANTING

NOT TO SCALE

MAHegge Development Plan



Mills Zoning Districts

- | | |
|--|--|
|  Mills, C-1: General Commercial |  Mills, O-B: Office Business District |
|  Mills, C-3: Business Service District |  Mills, R-1: Single Family Dwelling District |
|  Mills, I-1: Light Industrial |  Mills, R-2: One and Two Family Dwelling District |
|  Mills, I-2: Heavy Industrial |  Mills, R-3: Multiple Family Dwelling District |
|  Mills, M-H: Manufactured Home District |  Mills, UA: Urban Agriculture |
|  Mills, M-P: Manufactured Home Park |  Mills, UR: Urban Agriculture Residential |
|  Mills, PLI: Public Land Institutions | |

Storm Water Drainage Study

PREPARED FOR: Planning Department, City of Mills

PREPARED BY: Robert Bennett, CEPI

DATE: July 8, 2025



Introduction

The location of the proposed site improvements project is off of Dwyer Drive in the Casper Creek Addition in the City of Mills. This is a semi-developed site with existing storage sheds and buildings and a graveled parking area. The project will be the addition of an office building/shop. There will be two buildings of 5,000 square feet and 1,600 square feet in size. The property consists of 8.33 acres of semi-developed land. The site is bound by developed land to the north and east, Casper Creek on the south and railroad on the west.

Historic Flows

The site historically and generally drains from the north to the south and to an existing storm water detention area and eventually to Casper Creek. The site is currently developed with buildings and graveled parking areas. The site is generally flat to hilly in slope of 2%-5% with an average runoff coefficient of 0.50 to 0.75.

Existing Area	Q ₁₀	Q ₁₀₀	Data
Casper Creek Addition	11.0 cfs	25.6 cfs	L= 500 feet, C= 0.60, A= 8.33 Acres, S= 2.7% 10 Year Event: Q ₁₀ = Ci A, i = 2.6, T _c = 15 minutes 100 Year Event Q ₁₀₀ = (1.25) CiA, i = 4.9

Projected Flows

The proposed improvements will be the addition of the buildings. The proposed drainage will still go to the north and discharge in the same location as it has historically to Casper Creek and into the existing detention area.

Developed Area	Q ₁₀	Q ₁₀₀	Data
Casper Creek Addition	13.8 cfs	32.0 cfs	L= 460 feet - C= 0.61, A= 8.33 Acres, S= 3% 10 Year Event: Q ₁₀ = Ci A, i = 2.7, T _c = 13.9 minutes 100 Year Event Q ₁₀₀ = (1.25) CiA, i = 5.1, T _c = 9.7

Storm Sewer Design and Storm Water Detention

The proposed improvements for this site consist of the construction of two commercial buildings. The site is currently developed with the site draining to Casper Creek. There is a minimal amount of increase in the flows with the regrading of the site and the additional buildings as the site is developed. Also, with the proximity to the existing detention facility and to Casper Creek no onsite improvements are necessary.



Civil Engineering Professionals, Inc.
6080 Enterprise Dr. • Casper, WY 82609
Phone 307.266.4346 • Fax 307.266.0103
www.cepi-casper.com



d#series

D-Series Size 1 LED Wall Luminaire



Catalog
Number

Notes

Type

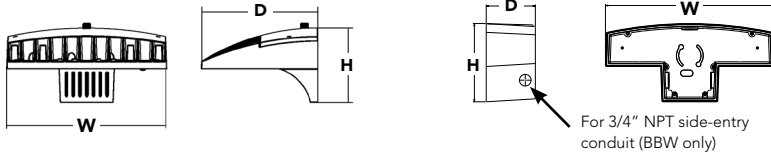
Hit the Tab key or mouse over the page to see all interactive elements.

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, E20WC)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	E20WC Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



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 significant energy savings, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED P2 40K 70CRI T3M MVOLT SRM DDBTXD

DSXW1 LED									
Series	Lumen Package	CCT	CRI	Distribution		Voltage	Mounting	Control Options	
DSXW1 LED	P1 2000 Lumens	27K 2700K	70CRI 70CRI	T2S	Type 2 Short	MVOLT	SRM Surface mounting bracket	Shipped installed	
	P2 2200 Lumens	30K 3000K	80CRI 80CRI ²	T2M	Type 2 Medium	120 ⁵		PE	Photoelectric cell, button type ⁸
	P3 3200 Lumens	35K 3500K	AMCRI Amber CRI	T3LG	Type 3 Low Glare ⁴	208 ⁵	BBW Surface-mounted back box (for conduit entry) ⁷	DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)
	P4 4300 Lumens	40K 4000K		T3M	Type 3 Medium	240 ⁵		PIR	180° motion/ambient light sensor, <15' mtg ht ⁹
	P5 5200 Lumens	50K 5000K		T4M	Type 4 Medium	277 ⁵		PIRH	180° motion/ambient light sensor, 15-30' mtg ht ⁹
	P6 7200 Lumens	57K 5700K		TFTM	Forward Throw Medium	347 ^{5,6}		PIR1FC3V	Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁹
	P7 10000 Lumens	AMBPC Amber PC ³ AMBLW Amber LW ^{1,3}		BLC3	Back Light Control Type 3 ⁴	480 ^{5,6} HVOLT ⁶		PIRH1FC3V	Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁹
				BLC4	Back Light Control Type 4 ⁴			E20WC	20 Watt Emergency battery backup (includes external component enclosure), CA Title 20 Compliant ¹⁰
								E10WH	10 Watt Emergency battery backup (includes external component enclosure), CA Title 20 compliant ¹⁰

Other Options

Finish (required)

Shipped installed

SF	Single fuse (120, 277 or 347V) ^{5,11}
DF	Double fuse (208, 240 or 480V) ^{5,11}
HS	House-side shield ¹²
SPD	Separate surge protection

Shipped separately¹²

BSW	Bird-deterrent spikes
VG	Vandal guard
DDL	Diffused drop lens

DDBXD	Dark bronze	DSSXD	Sandstone
DBLXD	Black	DDBTXD	Textured dark bronze
DNAXD	Natural aluminum	DBLBXD	Textured black
DWHXD	White	DNATXD	Textured natural aluminum

DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1VG U	Vandal guard accessory

NOTES

- Only available with P1 and P6 Packages.
- Not available with 57K.
- Only Available with AMCRI.
- Not available with HS Option.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with P1 package. Not available with motion/ambient light sensors (PIR or PIRH). Not Available with DMG.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory. Not Available with E20WC or E10WH.

- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Reference Motion Sensor table on page 3. Not available with DMG.
- Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with SF and DF fusing. Not available with 347, 480, HVOLT voltage options. Emergency components located in back box housing. Not available with SPD.
- Not available with E20WC and E10WH.
- Also available as a separate accessory; see Accessories information.



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DSXW1-LED
Rev. 12/12/24

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Contact factory for performance data on any configurations not shown here.

Package	Dist. Type	System Watts	30K, 70CRI		40K, 70CRI		50K, 70CRI	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	T2M	12	1,840	149	1,965	159	1,993	161
	T3M	12	1,786	144	1,908	154	1,934	156
	T4M	12	1,821	147	1,946	157	1,973	159
	TFTM	12	1,816	147	1,940	157	1,967	159
	BLC4	12	1,382	112	1,476	119	1,497	121
P2	T2M	15	2,189	150	2,339	160	2,371	163
	T3M	15	2,126	146	2,271	156	2,302	158
	T4M	15	2,168	149	2,316	159	2,348	161
	TFTM	15	2,161	148	2,309	158	2,341	161
	BLC4	15	1,645	113	1,757	121	1,781	122
P3	T2M	21	3,064	146	3,273	155	3,318	158
	T3M	21	2,974	141	3,177	151	3,222	153
	T4M	21	3,033	144	3,240	154	3,285	156
	TFTM	21	3,024	144	3,231	153	3,275	156
	BLC4	21	2,302	109	2,459	117	2,493	118
P4	T2M	29	3,997	139	4,269	149	4,329	151
	T3M	29	3,880	135	4,145	145	4,203	147
	T4M	29	3,957	138	4,227	147	4,286	149
	TFTM	29	3,945	138	4,214	147	4,273	149
	BLC4	29	3,002	105	3,207	112	3,252	113
P5	T2M	37	4,977	134	5,317	143	5,391	145
	T3M	37	4,832	130	5,162	139	5,233	141
	T4M	37	4,928	132	5,264	142	5,337	144
	TFTM	37	4,913	132	5,248	141	5,321	143
	BLC4	37	3,739	101	3,994	107	4,050	109
P6	T2M	48	6,867	142	7,335	152	7,437	154
	T3M	48	6,667	138	7,122	148	7,220	150
	T4M	48	6,798	141	7,262	151	7,363	153
	TFTM	48	6,778	140	7,241	150	7,341	152
	BLC4	48	5,158	107	5,511	114	5,587	116
P7	T2M	73	9,819	135	10,490	145	10,635	147
	T3M	73	9,533	131	10,184	140	10,325	142
	T4M	73	9,722	134	10,385	143	10,529	145
	TFTM	73	9,693	134	10,354	143	10,498	145
	BLC4	73	7,377	102	7,880	109	7,989	110

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	1.04
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED P7** 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	0.91	0.82

Electrical Load

Performance Package	LEDs	Drive Current (mA)	System Watts	Current (A)					
				120V	208V	240V	277V	347V	480V
DSXW1 P1	10	375	12	0.10	0.06	0.05	0.04	-	-
DSXW1 P2	10	450	15	0.12	0.07	0.06	0.05	0.04	0.03
DSXW1 P3	10	650	21	0.18	0.10	0.09	0.08	0.06	0.05
DSXW1 P4	10	875	29	0.24	0.14	0.12	0.10	0.08	0.06
DSXW1 P5	10	1125	37	0.30	0.18	0.16	0.14	0.11	0.08
DSXW1 P6	20	750	48	0.39	0.24	0.20	0.18	0.14	0.10
DSXW1 P7	20	1150	73	0.60	0.36	0.31	0.27	0.21	0.15

Motion Sensor Default Settings

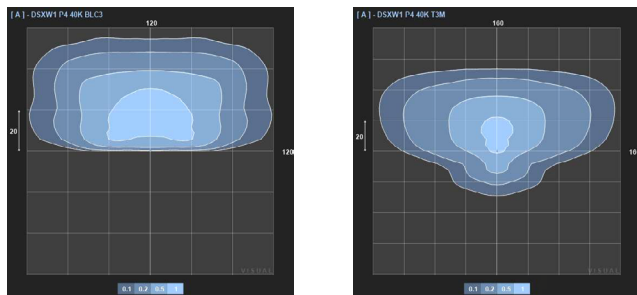
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*For use when motion sensor is used as dusk to dawn control

Photometric Diagrams

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

Isofootcandle plots for the DSXW1 LED P4 40K. Distances are in units of mounting height (20').



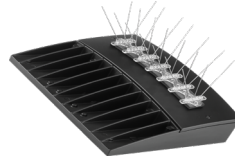
Options and Accessories



T3M (left)



HS - House-side shields



BSW - Bird-deterrent spikes



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 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. IP66 rated light engine.

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 multiple CCTs and CRIs including Amber for specialized applications.

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 (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 6KV 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.

GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

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

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



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DSXW1-LED
Rev. 12/12/24



WDGE2 LED

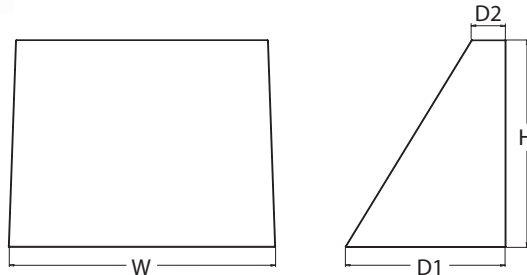
Architectural Wall Sconce

Precision Refractive Optic



Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



Catalog
Number

Notes

Type

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

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature		CRI	Distribution	Voltage	Mounting	
WDGE2 LED	P0 ¹	27K	2700K	40K 4000K	70CRI ⁴	MVOLT 347 ⁵ 480 ⁵	Shipped included	
	P1 ²	30K	3000K	50K 5000K	80CRI		SRM Surface mounting bracket	
	P2 ²	35K	3500K	AMB ³ Amber	LW ³ Limited Wavelength		ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) ⁶	
	P3 ²						AWS 3/8inch Architectural wall spacer ⁷	
	P4 ²						PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available ⁷	
					T1S Type I Short T2M Type II Medium T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium			

Options			Finish	
E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)	Standalone Sensors/Controls PIR Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. PIRH Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching PIR1FC3V Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. PIRH1FC3V Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. Networked Sensors/Controls NLTAIR2 PIR Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights. NLTAIR2 PIRH Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights. NLTAIREM2 PIR Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights NLTAIREM2 PIRH Embedded wireless controls by nLight with UL924 listed emergency operation, Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights. See page 4 for out of box functionality	DDBXD	Dark bronze
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)		DBLXD	Black
PE	Photocell, Button Type ⁸		DNAXD	Natural aluminum
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) ⁹		DWHXD	White
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.		DSSXD	Sandstone
CCE	Coastal Construction ⁷		DBDXTD	Textured dark bronze
			DBLTXD	Textured black
			DNATXD	Textured natural aluminum
			DWHGXD	Textured white
			DSSTXD	Textured sandstone



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WDGE2 LED
Rev. 07/07/25

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD U	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES

- 1 P0 option not available with sensors/controls.
- 2 P1-P4 not available with AMB and LW.
- 3 AMB and LW always go together.
- 4 70CRI only available with T3M and T4M.
- 5 347V and 480V not available with E10WH or E20WC.
- 6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
- 7 For PBBW and AWS with CCE option, require an RFA.
- 8 PE not available in 480V or with sensors/controls.
- 9 DMG option not available with sensors/controls.

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. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode
(4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

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	1.03
10°C	50°F	1.02
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 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	1.0	>0.96	>0.93	>0.87

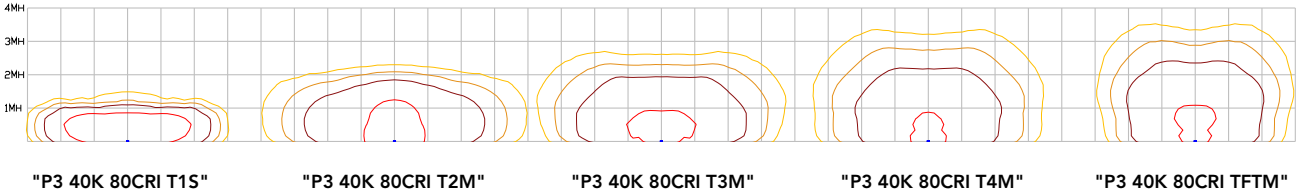
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc

MH = 10ft
Grid = 10ft x 10ft



Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



Motion/Ambient Sensor (PIR, PIRH)

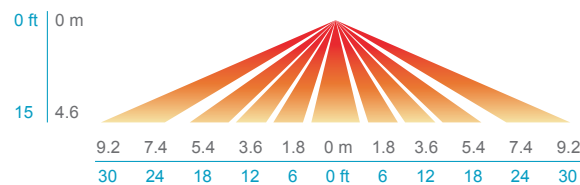
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR

HIGH VIEW





Motion/Ambient Sensor

D = 7"

H = 9" (Standalone controls)

11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)

W = 11.5"



PBBW – Surface-Mounted Back Box

Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"



AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and 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 IP66 rating for the luminaire.

FINISH

Exterior painted 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 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

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE 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 consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

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

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Strike and Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual Comfort - Option for Size 2 and Size 3
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, and LightGRID+.
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 2700K, 3000K, 3500K, 4000K and 5000K CCTs
- Zero uplight distributions
- LED optics provide IES type II, III and IV distributions.

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct j-box mount.

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V input is available in most wattage, 480V is available for 55W and above.
- Ambient operating temperature -40°C to 40°C
- Driver RoHS and IP66
- 10kV Surge Protector optional
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options can not be included in one same fixture.
- Dimming drivers are standard. Select CD (Customer Dimming) for the dimming wires to be extended outside the fixture.

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- Button photocontrol is suitable for 120-277V operation
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

CONTROLS CONTINUED

- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures -20°C to 40°C.
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor.

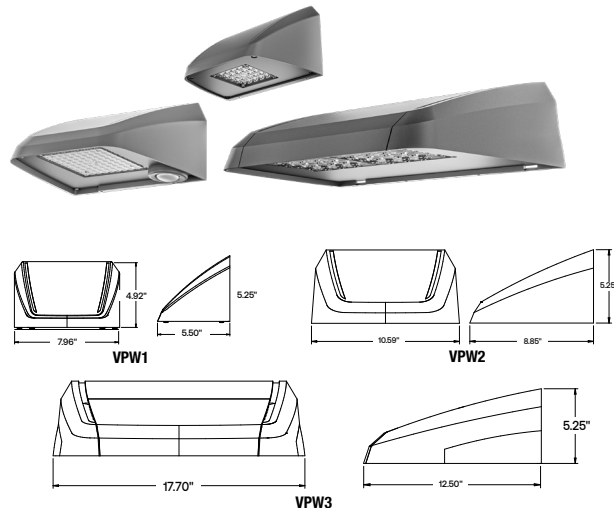
CERTIFICATIONS

- Certified to UL 1598 and CSA 22.2#250.0-24
- IP65 rated housing
- Emergency battery backup options are California Energy Commission (CEC) Title 20 Compliant
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225- 11). See Buy America(n) Solutions (link to <https://http://www.currentlighting.com/resources/americasolutions>).

WARRANTY

- 5 year limited warranty

MICROSTRIKE | OPTICS STRIKE



	Weight
VPW1	4.1 lbs / 1.86 kg
VPW2	7.15 lbs / 3.24 kg
VPW3	17.1 lbs / 7.80 kg



VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

ORDERING GUIDE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Example: VPW1-24L-10-3K7-2-UNV-BLS

CATALOG #

Series	# LEDs - Wattage	CCT/CRI	Distribution	Voltage	Color
VPW1 Viper Wall 1	24L-10 1,000 Lumens	27K8 2700K, 80 CRI	FR Auto Front Row ^{7,15}	UNV 120-277V	BLT Black Matte Textured
	24L-15 2,000 Lumens	3K7 3000K, 70 CRI	2 IES TYPE 2	120 120V	BLS Black Gloss Smooth
	24L-25 3,000 Lumens	4K7 4000K, 70 CRI	3 IES TYPE 3	208 208V	DBT Dark Bronze Matte Textured
	48L-15 2,000 Lumens	5K7 5000K, 70 CRI	4F IES TYPE 4 Forward	240 240V	DBS Dark Bronze Gloss Smooth
VPW2 Viper Wall 2	48L-20 3,000 Lumens	3K8 3000K, 80 CRI	4W IES TYPE 4W	277 277V	GTT Graphite Matte Textured
	48L-30 4,000 Lumens	35K8 3500K, 80 CRI		347 347V	LGS Light Grey Gloss Smooth
	48L-35 5,000 Lumens	4K8 4000K, 80 CRI		480 480V	LGT Light Grey Matte Textured
	48L-45 6,000 Lumens	5K8 5000K, 80 CRI			PSS Platinum Silver Smooth
	80L-20 3,000 Lumens	AP Phosphor Converted Amber ¹			WHT White Matte Textured
	80L-25 4,000 Lumens				WHS White Gloss Smooth
	80L-35 5,000 Lumens				VGT Verde Green Textured
	80L-45 6,000 Lumens				Color Option
	80L-55 7,000 Lumens				CC Custom Color
	80L-65 8,000 Lumens				
	80L-70 8,500 Lumens				
	18L-25 3,000 Lumens, Strike Optics				
	18L-30 4,000 Lumens, Strike Optics				
	18L-39 4,750 Lumens, Strike Optics				
	18L-50 6,000 Lumens, Strike Optics				
	18L-60 6,500 Lumens, Strike Optics				
VPW3 Viper Wall 3	160L-45 7,000 Lumens				
	160L-70 10,000 Lumens				
	160L-95 12,500 Lumens				
	160L-105 15,000 Lumens				
	160L-135 17,500 Lumens				
	160L-155 20,000 Lumens				
	36L-55 7,000 Lumens, Strike Optics				
	36L-80 9,500 Lumens, Strike Optics				
	36L-100 11,500 Lumens, Strike Optics				
	36L-120 13,000 Lumens, Strike Optics				

Control Options Network ^{3,7,11,13}	Options	Notes:
NXWS12F NX Networked Wireless Enabled Integral NXSMP2-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ¹⁴	F Fusing ^{5,7}	1 Available with Micro Strike Optics only
NXWS16F NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ⁹	E Battery ^{6,7,8}	2 Not available with 480V in Size 1 and Size 2
NXWS24F NX Networked Wireless Enabled Integral NXSMP2-OMNI-HM PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ⁹	EH Battery with Heater ^{6,7,8}	3 Networked controls cannot be combined with other control options
NXWS40F NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ⁹	CS Comfort Shield ^{7,10}	4 Not available with VPW1 or with 2PF or 2DR options
NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	SP 10kA Surge Protector	5 Must specify voltage (VPW1 & VPW2: 120V, 277V or 347V; VPW3: 120V, 208V, 240V, 277V, 347V or 480V)
WIR LightGRID+ In-Fixture Module ⁹	2PF Dual Power Feed ^{2,7,8}	6 See page 10 for detail Battery configurations
WIRSC LightGRID+ In-Fixture Module with BTS occupancy ⁹	2DR Dual Driver ^{2,7,8}	7 Not available in VPW1
Stand Alone Sensors ^{7,11,13}	CD Customer Dimming ¹²	8 2PF can't be combined with E or EH; 2DR can't be combined with E or EH in VPW2
BTS-14F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor ^{4,9}	DTS Dimming Transfer Switch ⁷	9 Not available in VPW1 and VPW2
BTS-40F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor ^{4,9}		10 Not available with Micro Strike 24L and 48L. Not available with Strike 18L and 36L
BTSO-12F Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height ¹⁴		11 Not available with 2PF
Photocontrol ¹³		12 Not available with Network Control options or Stand Alone Sensors. Can be ordered with PC
PC Button Photocontrol 120-277V		13 Not available in 480V in VPW2; Only available in 480V in VPW3 in 80W, 100W, 120W, 135W and 155W
		14 NXWS12F and BTSO-12F are the only sensors available in VPW2
		15 Available with Strike Optics only (18L or 36L)

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number	Description
☐ WP-BB-XXX	Back Box Accessory for conduit entry ¹
☐ CS	Comfort Shield ²

Notes:

- replace "xxx" with color option
- Not available with Micro Strike 24L and 48L or Strike 18L and 36L

CONTROLS FUNCTIONALITY

OUTDOOR LIGHTING CONTROLS OPTIONS

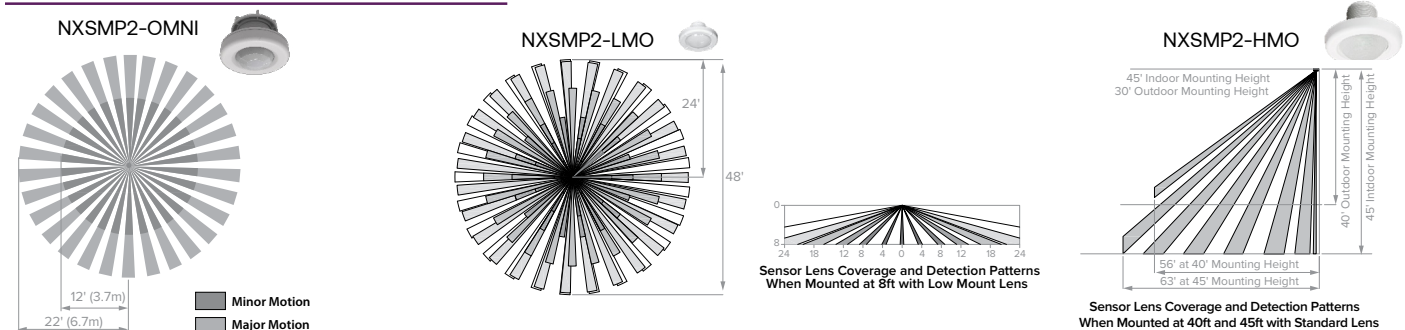
Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components	
		Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height		
NX Wireless	NXW	✓	✓	✓	—	—	✓	✓	✓	—		NXRM2-H
	NXWS16F	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
	NXWS40F	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	✓	—	✓	—	—	✓	✓	Gateway	—		WIR
Independent	BTSO-12F	—	—	—	✓	✓	✓	✓	✓	12ft		BTSMPO-OMNI-O
	BTS-14F	—	—	—	✓	✓	✓	✓	✓	14ft		BTSMPO-LMO
	BTS-40F	—	—	—	✓	✓	✓	✓	✓	40ft		BTSMPO-HMO

DEFAULT SETTINGS

NX Wireless	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	15 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0%
	Daylight Sensor	Disabled
	Bluetooth	Enabled
	2.4GHz Wireless Mesh	Off
	*Passcode Factory Passcode: HubbN3T!	Enabled

Stand Alone	Occupancy Sensor	Enabled
	Occupancy Sensor Sensitivity	7
	Occupancy Sensor Timeout	8 Minutes
	Occupied Dim Level	100%
	Unoccupied Dim Level	0% (Off)
	Daylight Sensor	Disabled

NX WIRELESS COVERAGE PATTERNS

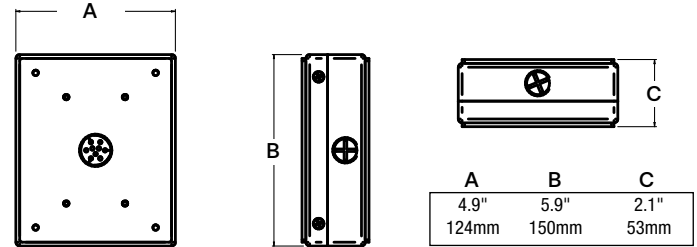


DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #: _____

DIMENSIONS



VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

NX LIGHTING CONTROLS FREE APP

CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)


The NX Lighting Controls App is free to use mobile application for programming both NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enable luminaires and program NX system settings.

Apple App: <https://apps.apple.com/us/app/nx-lighting-controls/id962112904>

Google Play: https://play.google.com/store/apps/details?id=io.cordova.NXBTR&hl=en_US&gl=US



Apple App



Google Play

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

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

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

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	OPERATING HOURS		
	0	25,000	TM-21-22 60,000
25°C / 77°F	1.00	0.91	0.83
40°C / 104°F	0.99	0.90	0.82

Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

MULTIPLIER

Micro Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	–	0.841	–
3000K	0.977	0.861	0.647
3500K	–	0.900	–
4000K	1	0.926	0.699
5000K	1	0.937	0.791
Monochromatic Amber Multiplier			
Amber	0.710		

Strike Lumen Multiplier			
CCT	70 CRI	80 CRI	90 CRI
2700K	0.9	0.81	0.62
3000K	0.933	0.853	0.659
3500K	0.959	0.894	0.711
4000K	1	0.9	0.732
5000K	1	0.9	0.732
Monochromatic Amber Multiplier			
Amber	See Amber Spec Sheet		

PERFORMANCE DATA: MICROSTRIKE

Description	# of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
VPW1	24L	10	6.6	2	1068	141	0	0	0	1068	141	0	0	0	989	131	0	0	0
				3	1076	142	0	0	1	1076	142	0	0	1	997	131	0	0	1
				4F	1052	139	0	0	1	1052	139	0	0	1	974	129	0	0	1
				4W	1041	137	0	0	1	1041	137	0	0	1	964	127	0	0	1
		15	14	2	1993	129	1	0	0	1993	129	1	0	0	1845	119	1	0	0
				3	2008	130	1	0	1	2008	130	1	0	1	1859	120	0	0	1
				4F	1964	127	0	0	1	1964	127	0	0	1	1818	117	0	0	1
				4W	1943	125	1	0	1	1943	125	1	0	1	1799	116	0	0	1
		25	23.0	2	3055	125	1	0	1	3055	125	1	0	1	2828	116	1	0	1
				3	3078	126	1	0	1	3078	126	1	0	1	2850	117	1	0	1
				4F	3010	123	1	0	1	3010	123	1	0	1	2787	114	1	0	1
				4W	2978	122	1	0	1	2978	122	1	0	1	2757	113	1	0	1

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: MICROSTRIKE CONT'D

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

Description	# of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
VPW2	48L	15	13.1	2	2139	145	1	0	1	2139	145	1	0	1	1981	134	1	0	1
				3	2163	146	1	0	1	2163	146	1	0	1	2003	135	1	0	1
				4F	2097	143	0	0	1	2097	143	0	0	1	1942	132	0	0	1
				4W	2101	143	1	0	1	2101	143	1	0	1	1946	132	0	0	1
		20	20.5	2	2973	141	1	0	1	2973	141	1	0	1	2753	130	1	0	1
				3	3007	142	1	0	1	3007	142	1	0	1	2784	132	1	0	1
				4F	2915	138	1	0	1	2915	138	1	0	1	2699	128	1	0	1
				4W	2921	138	1	0	1	2921	138	1	0	1	2705	128	1	0	1
		30	28.8	2	4000	137	1	0	1	4000	137	1	0	1	3704	126	1	0	1
				3	4045	138	1	0	1	4045	138	1	0	1	3745	128	1	0	1
				4F	3922	134	1	0	1	3922	134	1	0	1	3631	124	1	0	1
				4W	3930	134	1	0	2	3930	134	1	0	2	3638	124	1	0	1
		35	37.3	2	4997	134	1	0	1	4997	134	1	0	1	4627	124	1	0	1
				3	5053	135	1	0	2	5053	135	1	0	2	4679	125	1	0	1
				4F	4899	131	1	0	1	4899	131	1	0	1	4536	122	1	0	1
				4W	4909	132	1	0	2	4909	132	1	0	2	4545	122	1	0	2
		45	45.9	2	5990	127	1	0	1	5990	127	1	0	1	5546	118	1	0	1
				3	6057	128	1	0	2	6057	128	1	0	2	5608	119	1	0	2
				4F	5872	124	1	0	2	5872	124	1	0	2	5437	115	1	0	1
				4W	5884	125	1	0	2	5884	125	1	0	2	5448	115	1	0	2
	80L	20	19.4	2	3485	161	1	0	1	3485	161	1	0	1	3200	147	1	0	1
				3	3516	162	1	0	1	3516	162	1	0	1	3229	149	1	0	1
				4F	3485	161	1	0	1	3485	161	1	0	1	3200	147	1	0	1
				4W	3535	163	1	0	1	3535	163	1	0	1	3246	150	1	0	1
		25	26.7	2	4443	154	1	0	1	4443	154	1	0	1	4080	141	1	0	1
				3	4483	155	1	0	1	4483	155	1	0	1	4117	142	1	0	1
				4F	4443	154	1	0	1	4443	154	1	0	1	4080	141	1	0	1
				4W	4507	156	1	0	1	4507	156	1	0	1	4139	143	1	0	1
		35	34.2	2	5438	147	1	0	1	5438	147	1	0	1	4994	135	1	0	1
				3	5488	148	1	0	1	5488	148	1	0	1	5039	136	1	0	1
				4F	5438	147	1	0	1	5438	147	1	0	1	4994	135	1	0	1
				4W	5516	149	1	0	2	5516	149	1	0	2	5066	137	1	0	1
		45	41.7	2	6369	145	1	0	1	6369	145	1	0	1	5848	133	1	0	1
				3	6427	146	2	0	2	6427	146	2	0	2	5901	134	1	0	1
				4F	6369	145	1	0	1	6369	145	1	0	1	5848	133	1	0	1
				4W	6460	147	1	0	2	6460	147	1	0	2	5933	135	1	0	2
		55	50.6	2	7209	137	2	0	2	7209	137	2	0	2	6620	126	1	0	1
				3	7275	139	2	0	2	7275	139	2	0	2	6680	127	2	0	2
				4F	7209	137	1	0	1	7209	137	1	0	1	6620	126	1	0	1
				4W	7313	139	1	0	2	7313	139	1	0	2	6715	128	1	0	2
		65	58.3	2	7781	130	2	0	2	7781	130	2	0	2	7145	119	2	0	2
				3	7852	131	2	0	2	7852	131	2	0	2	7210	120	2	0	2
				4F	7781	130	2	0	1	7781	130	2	0	1	7145	119	1	0	1
				4W	7893	132	1	0	2	7893	132	1	0	2	7248	121	1	0	2
		70	63.5	2	8367	128	2	0	2	8367	128	2	0	2	7683	117	2	0	2
				3	8443	129	2	0	2	8443	129	2	0	2	7753	119	2	0	2
				4F	8367	128	2	0	1	8367	128	2	0	1	7683	117	2	0	1
				4W	8487	130	1	0	2	8487	130	1	0	2	7794	119	1	0	2

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

PERFORMANCE DATA: MICROSTRIKE CONT'D

Description	# of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
VPW3	160L	45	46.2	2	7623	148	1	0	2	7623	148	1	0	2	7000	136	1	0	1
				3	7626	148	2	0	2	7626	148	2	0	2	7003	136	2	0	2
				4F	7590	147	2	0	1	7590	147	2	0	1	6970	135	1	0	1
				4W	7715	150	1	0	2	7715	150	1	0	2	7084	138	1	0	2
		70	68.3	2	10322	139	2	0	2	10322	139	2	0	2	9478	128	2	0	2
				3	10326	140	2	0	2	10326	140	2	0	2	9482	128	2	0	2
				4F	10277	139	2	0	2	10277	139	2	0	2	9437	128	2	0	2
				4W	10446	141	2	0	2	10446	141	2	0	2	9592	130	1	0	2
		95	91	2	12929	132	2	0	2	12929	132	2	0	2	11872	121	2	0	2
				3	12934	132	3	0	3	12934	132	3	0	3	11877	121	3	0	3
				4F	12873	131	2	0	2	12873	131	2	0	2	11821	120	2	0	2
				4W	13084	133	2	0	3	13084	133	2	0	3	12015	122	2	0	3
		105	106.3	2	15055	138	2	0	2	15055	138	2	0	2	13825	127	2	0	2
				3	15062	138	3	0	3	15062	138	3	0	3	13831	127	3	0	3
				4F	14991	138	2	0	2	14991	138	2	0	2	13766	127	2	0	2
				4W	15236	140	2	0	3	15236	140	2	0	3	13991	129	2	0	3
		135	134.8	2	17533	127	3	0	3	17533	127	3	0	3	16100	116	3	0	3
				3	17541	127	3	0	3	17541	127	3	0	3	16107	116	3	0	3
				4F	17457	126	2	0	2	17457	126	2	0	2	16031	116	2	0	2
				4W	17744	128	2	0	4	17744	128	2	0	4	16294	118	2	0	3
		155	158.3	2	20066	123	3	0	3	20066	123	3	0	3	18426	113	3	0	3
				3	20075	123	3	0	3	20075	123	3	0	3	18434	113	3	0	3
				4F	19980	123	3	0	3	19980	123	3	0	3	18347	113	2	0	2
				4W	20307	125	2	0	4	20307	125	2	0	4	18648	115	2	0	4

PERFORMANCE DATA: STRIKE

Description	# of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
VPW2	18L	25	22.6	2	3314	147	1	0	1	3298	146	1	0	G1	3171	140	1	0	1
				3	3356	148	1	0	1	3340	148	1	0	G1	3212	142	1	0	1
				4F	3367	149	0	0	1	3351	148	0	0	G1	3222	143	0	0	1
				4W	3361	149	1	0	2	3345	148	1	0	G2	3216	142	1	0	2
		30	31.3	2	4124	132	1	0	1	4104	131	1	0	G1	3946	126	1	0	1
				3	4176	133	1	0	2	4156	133	1	0	G2	3996	128	1	0	1
				4F	4189	134	1	0	1	4169	133	1	0	G1	4009	128	1	0	1
				4W	4182	134	1	0	2	4162	133	1	0	G2	4002	128	1	0	2
		39	38.8	2	4894	126	1	0	1	4870	126	1	0	G1	4683	121	1	0	1
				3	4956	128	1	0	2	4932	127	1	0	G2	4742	122	1	0	2
				4F	4972	128	1	0	2	4948	128	1	0	G2	4758	123	1	0	2
				4W	4963	128	1	0	2	4939	127	1	0	G2	4749	122	1	0	2
		50	52.6	2	6325	120	1	0	1	6295	120	1	0	G1	6052	115	1	0	1
				3	6405	122	1	0	2	6374	121	1	0	G2	6129	117	1	0	2
				4F	6426	122	1	0	2	6395	122	1	0	G2	6149	117	1	0	2
				4W	6414	122	1	0	3	6384	121	1	0	G3	6138	117	1	0	3
		60	60.4	2	6865	114	1	0	2	6832	113	1	0	G2	6569	109	1	0	2
				3	6952	115	1	0	2	6919	115	1	0	G2	6652	110	1	0	2
				4F	6974	115	1	0	2	6941	115	1	0	G2	6674	110	1	0	2
				4W	6962	115	1	0	3	6929	115	1	0	G3	6662	110	1	0	3

PERFORMANCE DATA: STRIKE CONT'D

Description	# of LEDs	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
					Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
VPW3	36L	55	63.1	2	7284	135	1	0	2	7249	134	1	0	G2	6970	129	1	0	2
				3	7376	137	1	0	2	7341	136	1	0	G2	7058	131	1	0	2
				4F	7400	137	1	0	2	7364	137	1	0	G2	7081	131	1	0	2
				4W	7387	137	1	0	3	7351	136	1	0	G3	7069	131	1	0	3
		80	77.6	2	9788	126	2	0	2	9741	126	2	0	G2	9366	121	2	0	2
				3	9912	128	1	0	3	9864	127	1	0	G3	9485	122	1	0	3
				4F	9944	128	1	0	2	9896	128	1	0	G2	9516	123	1	0	2
				4W	9926	128	1	0	3	9879	127	1	0	G3	9499	122	1	0	3
		105	108.2	2	12650	128	2	0	2	12589	127	2	0	G2	12105	122	2	0	2
				3	12810	130	2	0	3	12748	129	2	0	G3	12258	124	2	0	3
				4F	12851	130	1	0	3	12790	129	1	0	G3	12298	124	1	0	3
				4W	12829	130	2	0	3	12767	129	2	0	G3	12276	124	2	0	3
		120	120.9	2	13730	114	2	0	2	13664	113	2	0	G2	13138	109	2	0	2
				3	13904	115	2	0	3	13837	114	2	0	G3	13305	110	2	0	3
				4F	13949	115	1	0	3	13882	115	1	0	G3	13348	110	1	0	3
				4W	13924	115	2	0	4	13857	115	2	0	G4	13324	110	2	0	3

ELECTRICAL DATA: STRIKE

# OF LEDS	18L				
NOMINAL WATTAGE	25	30	39	50	60
SYSTEM POWER (W)	22.6	31.3	38.8	52.6	60.4
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.21	0.26	0.32	0.44	0.50
208	0.12	0.15	0.19	0.25	0.29
240	0.10	0.13	0.16	0.22	0.25
277	0.09	0.11	0.14	0.19	0.22
347	0.07	0.09	0.11	0.15	0.17
480	0.05	0.07	0.08	0.11	0.13

# OF LEDS	36L			
NOMINAL WATTAGE	55	80	100	120
SYSTEM POWER (W)	53.9	77.6	98.9	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)			
120	0.45	0.65	0.82	1.01
208	0.26	0.37	0.48	0.58
240	0.22	0.32	0.41	0.50
277	0.19	0.28	0.36	0.44
347	0.16	0.22	0.29	0.35
480	0.11	0.16	0.21	0.25

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

ELECTRICAL DATA: MICROSTRIKE

# OF LEDS	24L		
NOMINAL WATTAGE	10	15	25
SYSTEM POWER (W)	6.6	14.0	23.0
INPUT VOLTAGE (V)	CURRENT (Amps)		
120	0.06	0.12	0.19
208	0.03	0.07	0.11
240	0.03	0.06	0.10
277	0.02	0.05	0.08
347	0.02	0.04	0.07
480	0.01	0.03	0.05

# OF LEDS	48L				
NOMINAL WATTAGE	15	20	30	35	45
SYSTEM POWER (W)	13.1	20.5	28.8	37.3	45.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.11	0.17	0.24	0.31	0.38
208	0.06	0.10	0.14	0.18	0.22
240	0.05	0.09	0.12	0.16	0.19
277	0.05	0.07	0.10	0.13	0.17
347	0.04	0.06	0.08	0.11	0.13
480	0.03	0.04	0.06	0.08	0.10

# OF LEDS	80L						
NOMINAL WATTAGE	20	25	35	45	55	65	70
SYSTEM POWER (W)	19.4	26.7	34.2	41.7	50.6	58.3	63.5
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.16	0.22	0.29	0.35	0.42	0.49	0.53
208	0.10	0.13	0.18	0.22	0.27	0.28	0.31
240	0.08	0.12	0.15	0.19	0.24	0.24	0.26
277	0.07	0.10	0.13	0.17	0.21	0.21	0.23
347	0.06	0.08	0.11	0.13	0.16	0.17	0.18
480	0.04	0.06	0.08	0.10	0.12	0.12	0.13

# OF LEDS	160L					
NOMINAL WATTAGE	45	70	95	105	135	155
SYSTEM POWER (W)	46.2	68.3	91	106.3	134.8	158.3
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	0.39	0.57	0.76	0.89	1.12	1.32
208	0.22	0.33	0.44	0.51	0.65	0.76
240	0.19	0.28	0.38	0.44	0.56	0.66
277	0.17	0.25	0.33	0.38	0.49	0.57
347	0.13	0.20	0.26	0.31	0.39	0.46
480	0.10	0.14	0.19	0.22	0.28	0.33

VIPER Wall

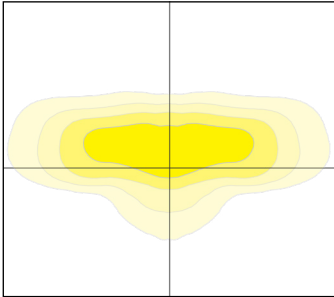
VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

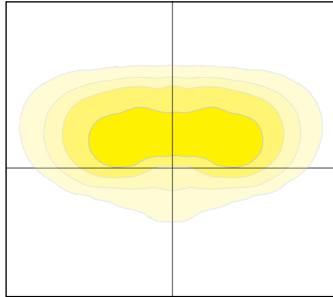
PHOTOMETRY

Mounting Height: 10ft

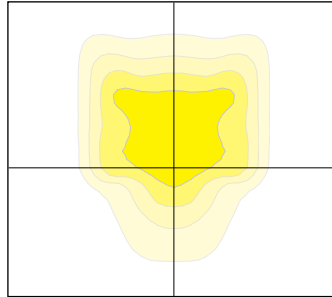
Type 2



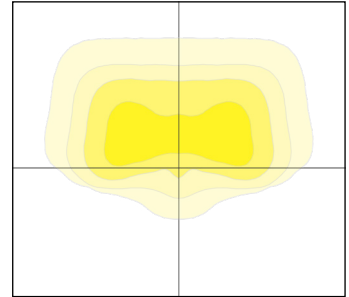
Type 3



Type 4F

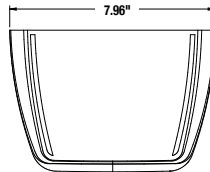
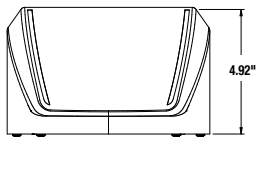


Type 4W

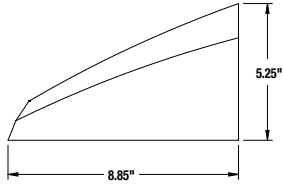
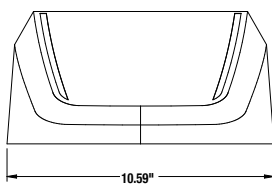


DIMENSIONS

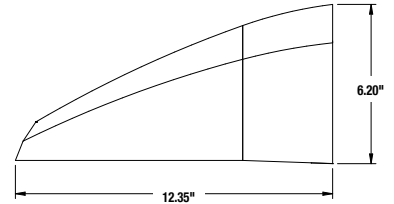
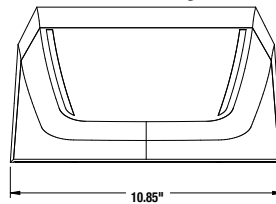
VPW1



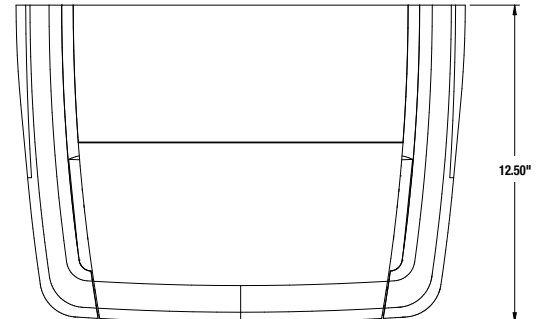
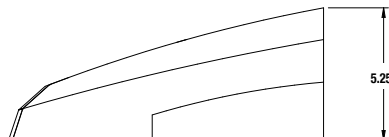
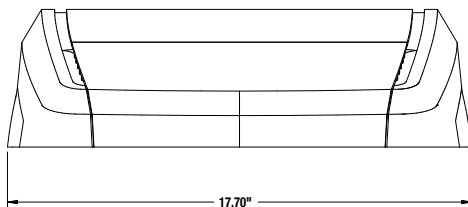
VPW2



VPW2 with Battery Back Box



VPW3



VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

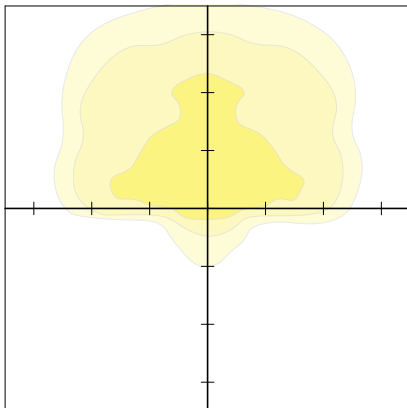
BATTERY OPTIONS & HOUSING SIZES

SIZE	OPTICS	OPTION	BATTERY WATTAGE	FIXTURE WATTAGES	HOUSING
VPW1	NO BATTERY OFFERED				
VPW2	Micro Strike	E	10W	20W, 25W, 35W	Standard
	Micro Strike	E	10W	45W, 55W, 65W, 70W	Not offered
	Micro Strike	EH	13W	20W, 25W, 35W, 45W, 55W, 65W, 70W	Housing with Backbox
	Strike	E	10W	15W, 20W, 25W, 35W, 39W	Standard
	Strike	E	10W	50W, 60W	Not offered
	Strike	EH	13W	15W, 20W, 25W, 30W, 39W, 50W, 60W	Housing with Backbox
VPW3	Micro Strike	E	10W	Not offered	
	Micro Strike	EH	13W	45W, 70W, 95W	Standard
	Micro Strike	EH	13W	105W, 135W, 155W	Not offered
	Strike	E	10W	Not offered	
	Strike	EH	13W	55W, 80W, 100W	Standard
	Strike	EH	13W	120W	Not offered

PHOTOMETRY - BATTERY

Mounting Height: 12ft
Scale: 10ft

18L BATTERY PHOTOMETRY



80L BATTERY PHOTOMETRY

