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: April 22, 2025
SUBJECT: Cross Country Freight Development Plan

Case Number: 25.02 DEV

Summary: The applicant is proposing to construct a 4,375 square foot warehouse and associated loading docks and area for a commercial transportation business. The proposed site sits on two lots totaling just under 5.0-acres in size within Opportunity Subdivision, however no structures will cross property boundaries and all required zoning setbacks have been met. The property is zoned I-1 (Light Industrial).

Staff Recommendation: Staff's recommends APPROVAL of the Development Plan and that the City enter into a Site Plan Agreement with the applicant.

Planning Commission Recommendation: At their April 3, 2025, meeting the Planning & Zoning Commission made a "DO PASS" recommendation on the Development Plan, pending completion of all planning considerations.

704 Fourth Street
PO Box 789
Mills, Wyoming

CITY OF MILLS
EST. 1921

(307) 234-6679
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Cross Country Freight
Industrial Warehouse

Commercial Site Plan

Planning Commission Meeting **City Council Meeting**
April 3, 2025

Applicants: NAP Nebraska, LLC **Case Number:** 25.02 DEV

Agent: Dave Swinney, Caspar Building Systems

Summary: The applicant is proposing to construct a 4,375 square foot warehouse with associated loading docks and areas for a commercial transportation business.

Legal Description: Lots 11 & 12, Opportunity Subdivision

Location: The property is located off TKS Ct just west of Salt Creek Hwy. The rear of the lots adjoins the intersection of Salt Creek Hwy and MJB Rd.

Current Zoning: I-1 (Light Industrial)

Adjacent Land Use:

North:	Opportunity Subdivision (I-1)
South:	Tank Farm Industrial Park (I-1)
East:	Opportunity Subdivision (I-1) & Salt Creek Hwy
West:	Opportunity Subdivision (I-1)

Applicable Land Development Regulations

Section 10.40 of the Mills LDRs provides the review criteria for the approval of a Development Plan. Those criteria include whether the site plan complies with all applicable regulations and if the development requires any additional site and design considerations. The proposed development should not create conflicts with vehicle, bicycle or pedestrian circulation and the Commission and/or City Council may require modifications, or condition plans, to ensure specific design features and conformance with all applicable standards.

Summary:

A Development Plan application has been submitted for construction of an industrial transportation warehouse. The site encompasses two lots totaling just under 5.0-acres; however no structures are planned across the lot line and all required setbacks from structures are met. The property is zoned I-1 (Light Industrial).

<u>Planning Considerations</u>:

1. Per Section 40.40 of the LDRs, a minimum of 4% of the site must be landscaped. Undisturbed, natural vegetation areas do not count towards required landscaping. The applicant has shown a landscaped area at the front of the proposed warehouse. Provide additional information:
    i. Revise the total area proposed to be landscaped on the site plan checklist
    ii. Summary narrative of landscaping plan
    iii. List of materials to be used in landscaping

2. Provide a final pavement design report for all parking and loading areas.

3. Enter into an approved Site Plan Agreement upon approval of the Development Plan.

4. Obtain all required building permits for construction, including all site lighting and on-premise signage.

5. A single address will be assigned after approval of the site plan.

Staff Recommendation:
Staff recommends APPROVAL of the development plan upon all planning considerations being completed.

Planning Commission Recommendation:

City Council Decision:

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

Date: 3/10/2025
Return by: 3/13/2025
(Submittal Deadline)
For Meeting on: 4/3/2025

PLEASE PRINT

SINGLE POINT OF CONTACT: Dave Swinney

APPLICANT/PROPERTY OWNER(S) INFORMATION:

Print Owner Name: NAP NEBRASKA LLC

Own

City, State, Zip: BISMARCK ND 58501

Owner Phone:

Applicant Emai

AGENT INFORMATION:

Print Agent Name: Caspar Building Systems

Agent Mailing Address:

City, State, Zip: Casper, WY 82601

Agent Phone:

Agent Email:

PROPERTY INFORMATION:

Subject property legal description (attach separate page if long legal): Lots 11 &12, Opportunity Subdivision, City of Mills, Wyoming

Physical address of subject property if available: 999 TKS Road, Mills, Wyoming

Size of lot(s) sq. ft/acres: Lot 11: 1.844 Acre, Lot 12: 3.145 Acre

Current zoning: I-L Current use: Undeveloped

Intended use of the property: Warehouse

Zoning within 300 feet: I-L Land use within 300 feet: Undeveloped, Storage, Heavy Equipment Dealer

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:** _____
3. **One reproducible 11 x 17 Site Plan hard copy:** _____
4. **One Site Plan electronic copy (pdf):** _____

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:** 20
5. Number of off-street parking spaces **required:** 10

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: Development of a warehouse facility.

OWNER Signature _____

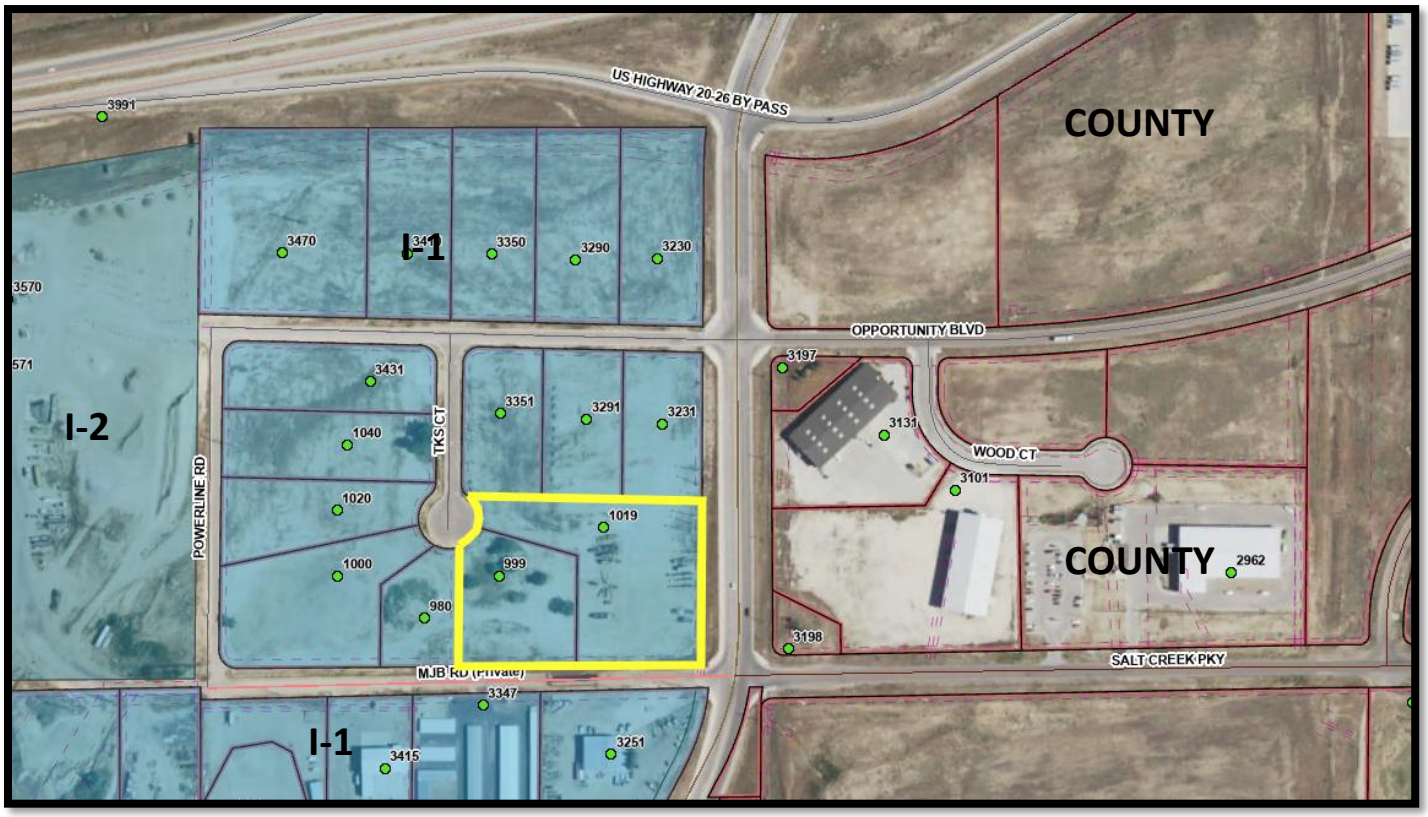
OWNER Signature _____

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: $**_____

Cross Country Freight Development Plan – Lots 11 & 12, Opportunity Subdivision



Mills Zoning Districts

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

SITE PLAN SUBMITTAL

CROSS COUNTRY FREIGHT

999 TKS COURT

MILLS, WYOMING

SITE PLAN CHECKLIST

1. Legal description and common address(es) of the proposed site: LOTS 11 AND 12, OPPORTUNITY SUBDIVISION, CITY OF MILLS

2. Title block stating name of project, designer, and address and telephone number of designer:
   PROJECT: CROSS COUNTRY FREIGHT

   CONTRACTOR: CASPAR BUILDING SYSTEMS, INC
   1975 OLD SALT CREEK RD
   CASPER, WY 82601

   CIVIL ENGINEER: WLC ENGINEERING & SURVEYING, INC
   200 PRONGHORN ST
   CASPER, WY 82601

3. Names of all abutting property owners if other than the petitioner: AS SHOWN

4. Surrounding land uses, buildings, and zoning on all abutting sides, including those lands separated from the land under consideration by a street, alley, or other roadway: AS SHOWN

5. Current zoning of the land under consideration and proposed zoning, if applicable:
   CURRENT ZONING: I-L
   PROPOSED ZONING: I-L

6. North arrow, scale of site plan at a scale of 1"=10' or a multiple thereof, and date site plan was prepared: AS SHOWN

7. Land area dimensions: AS SHOWN

8. Dimensions of all setbacks and heights of all proposed buildings: AS SHOWN

9. Location and dimensions of all proposed off-street loading dock areas, including street access and traffic flow, to these areas: AS SHOWN

10. Location of all trash receptacles: AS SHOWN

11. Locations and types of all advertising signs and fences: AS SHOWN

12. Any screening or screening devices used to minimize or eliminate areas which tend to be unsightly: NONE PROPOSED

13. Locations of existing and proposed exterior lighting, heights of poles, and size and number of fixtures: AS SHOWN. WALL PACKS ON THE BUILDING.

14. Names and widths of all adjacent streets, dimensions and location of all public and private roadways, streets, or driveways, both paved and unpaved, including right-of-way, pavement width, and proposed uses of right-of-way: AS SHOWN

15. Location and dimensions of existing and proposed curb cuts and sidewalks: AS SHOWN

16. Off-street parking spaces, locations and dimensions, layout, traffic control, compact and handicap parking spaces, including all surface markings such as directional arrows: AS SHOWN

17. Location of all wheel stops, bumper guards, and curbing warranted by topography or traffic and pedestrian circulation: NONE PROPOSED.

18. Types of ground or yard surfacing throughout, grass, paving, gravel, etc: AS SHOWN

19. Existing and proposed easements: AS SHOWN

20. Vicinity/Location map at a scale of 1"=600' clearly indicating the location of the land in question with respect to a larger recognizable area: AS SHOWN

21. General notes to include a summary table on the sire plan:

    a. Total land area in acres or square feet: 4.99 AC
    b. Total building footprint in square feet: PROPOSED 4,375 SF
    c. Total square feet of building addition: N/A
    d. Percentage of land covered by buildings: 2%
    e. Building height(s): SEE ELEVATIONS
    f. Number of stories and total square footage of leaseable space: ONE STORY, 4375 SF
    g. Total number of parking spaces: 5 REGULAR, 2 HANDICAPPED, 13 TRACTOR-TRAILER SPOTS
    h. Square footage of parking areas(s): 125,900 SF
    i. Percentage of land covered by parking: 58%
    j. Square footage of all landscaped areas: 84,425 SF
    k. Percentage of site covered by landscaping: 40%

22. Numbering of items on the site plan to correspond to items on this checklist: AS SHOWN

23. Existing and proposed contours: AS SHOWN

24. Elevations of the building(s) to be constructed (front, rear, side): SEE ARCHITECTURAL DRAWINGS

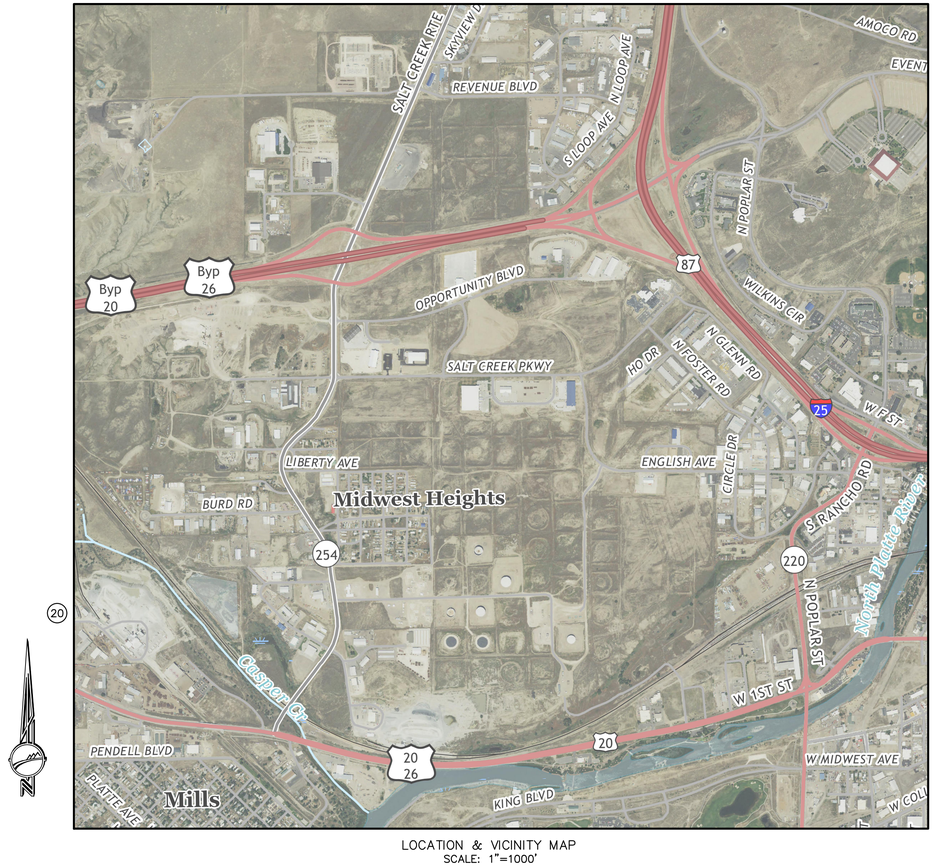
25. Surface drainage plans for sites at ten thousand (10,000) square feet or more:

26. Pavement design report for parking areas:

27. Traffic study (if required by the City Engineer, Planning Staff, Planning and Zoning Boards or City Council): NONE PROPOSED

LEGEND

RECOVERED BRASS CAP	EX ELECTRIC METER	PROPERTY BOUNDARY
RECOVERED ALUM. CAP	EX ELECTRIC VAULT	FENCE
RECOVERED REBAR	EX CONDUIT RISER	℄ ROAD
RECOVERED IRON PIPE	EX SANITARY MANHOLE	EX EDGE ASPHALT
RECOVERED CORNER	EX SANITARY CLEANOUT	EX EDGE CONCRETE
EX SIGN	EX SEPTIC CLEANOUT	EX EDGE GRAVEL
EX MONITOR WELL	EX STORM MANHOLE	EX FLOWLINE
EX TREE	EX STORM INLET	EASEMENT
EX BUSH	EX TELEPHONE MARKER	EX CONTOUR MAJOR
EX BORE HOLE	EX TELEPHONE PEDESTAL	EX CONTOUR MINOR
EX TV PEDESTAL	EX TELEPHONE MANHOLE	EX FIBER
EX TV RECEIVER	EX TELEPHONE PULLBOX	EX PIPELINE
EX GAS METER	EX TRAFFIC SIGNAL	EX GASLINE
EX GAS VALVE	EX TRAFFIC CONTROL BOX	EX POWERLINE
EX GAS RISER	EX WATER VALVE	EX STORM SEWER
EX PIPELINE MARKER	EX FIRE HYDRANT	EX SANITARY SEWER
EX TEST LEAD	EX CURB STOP	EX TELEPHONE
EX POWER POLE	EX SPIGOT	EX WATERLINE
EX POWER TRANSFORMER	EX WATER METER	EX CABLE TV
EX LIGHT POLE	EX SPRINKLER VALVE BOX	EX OVERHEAD POWER
EX CATHODIC TEST	EX SPRINKLER HEAD	CHAIN LINK FENCE
EX GUY POLE	EX WATER MANHOLE	PROP EDGE ASPHALT
EX GUY ANCHOR	EX GAS PUMP	PROP EDGE CONCRETE
EX SWITCH POLE	PROP SANITARY PUMP	PROP CONTOUR MAJOR
		PROP CONTOUR MINOR
		PROP GASLINE
		PROP POWERLINE
		PROP STORM SEWER
		PROP SANITARY SEWER
		PROP WATERLINE



LOCATION & VICINITY MAP
SCALE: 1"=1000'

WLC ENGINEERING - SURVEYING
200 PRONGHORN, CASPER, WY. 82601
307 - 266 - 2524
WWW.WLCWYO.COM

Drwg. By: JLM W.O. No.: 18041
Chk. By: FGF Book No.:
Acad File: CCF DESIGN_CURRENT.dwg

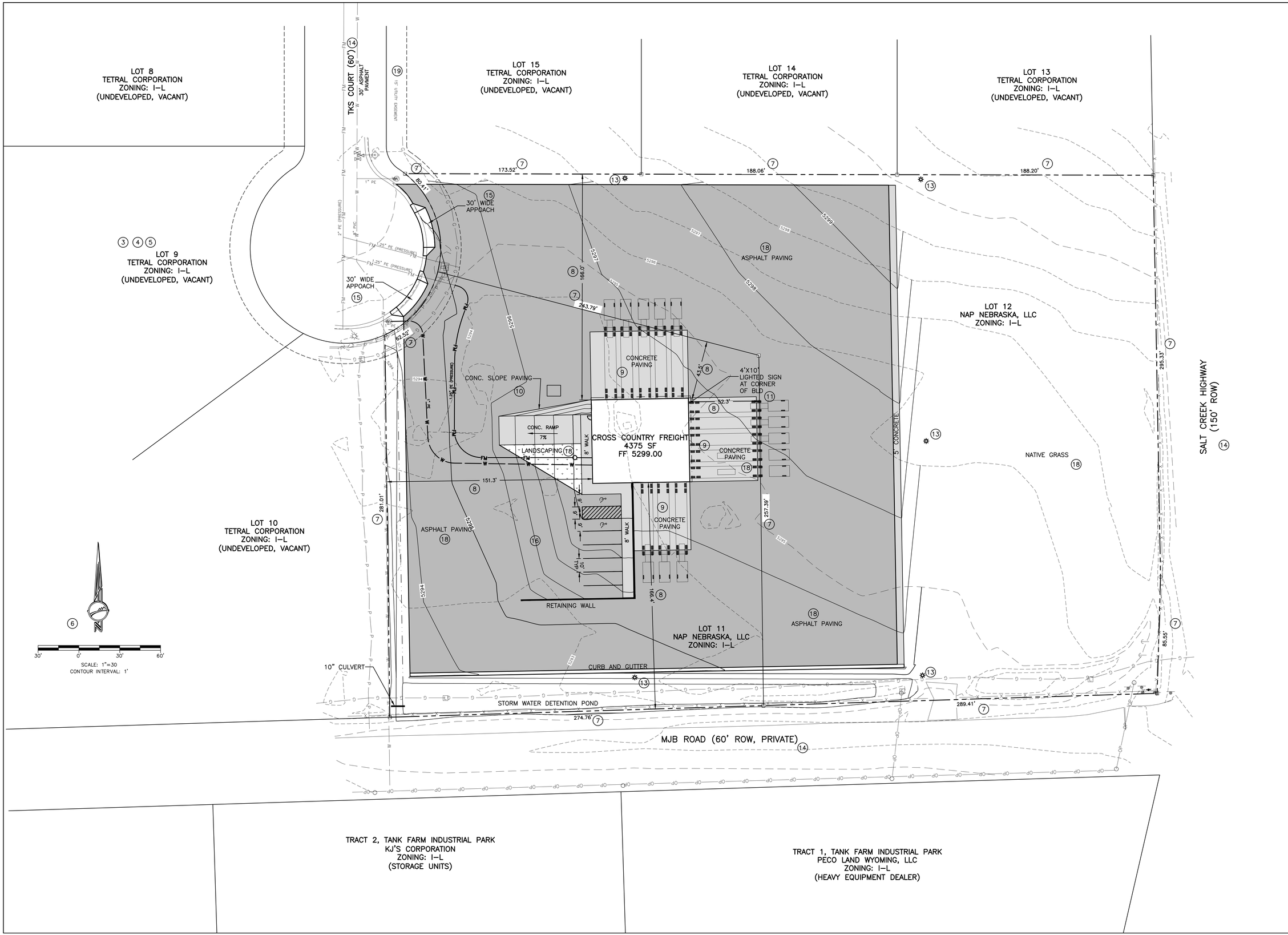
FOR: CASPAR BUILDING SYSTEMS
1975 SALT CREEK HWY
CASPER, WY 82601

REVISIONS

CROSS COUNTRY FREIGHT
SITE PLAN COVER

SHEET NO.
1 OF 2

DATE:
3/10/25



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FOR: CASPAR BUILDING SYSTEMS
1975 SALT CREEK HWY
CASPER, WY 82601

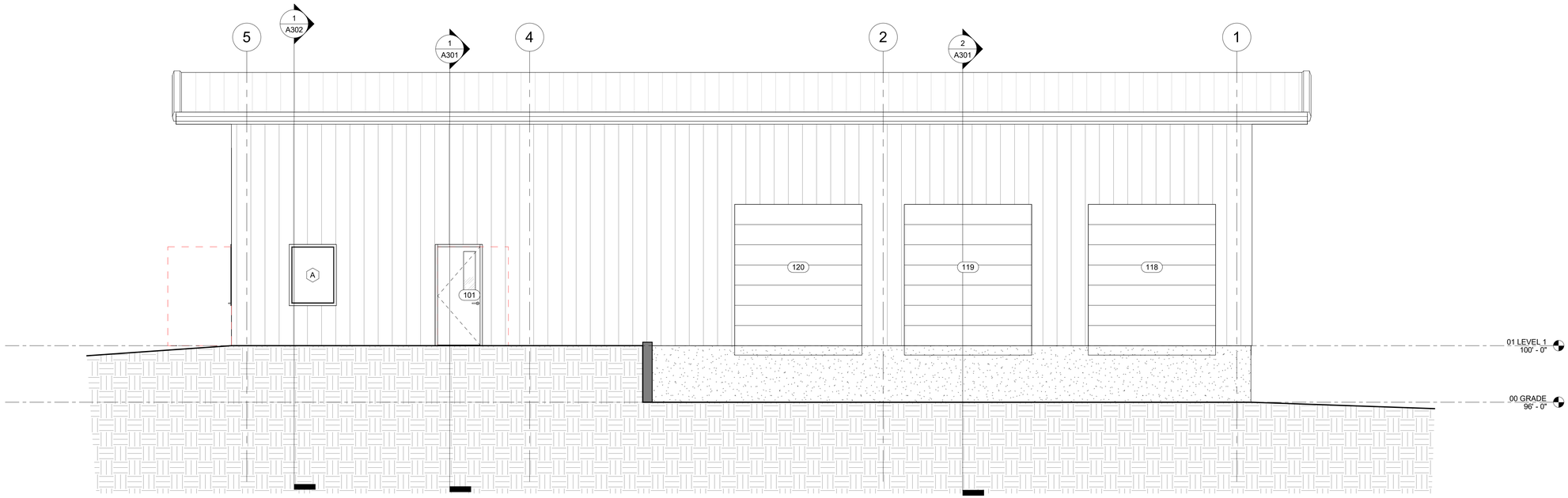
2

REVISIONS

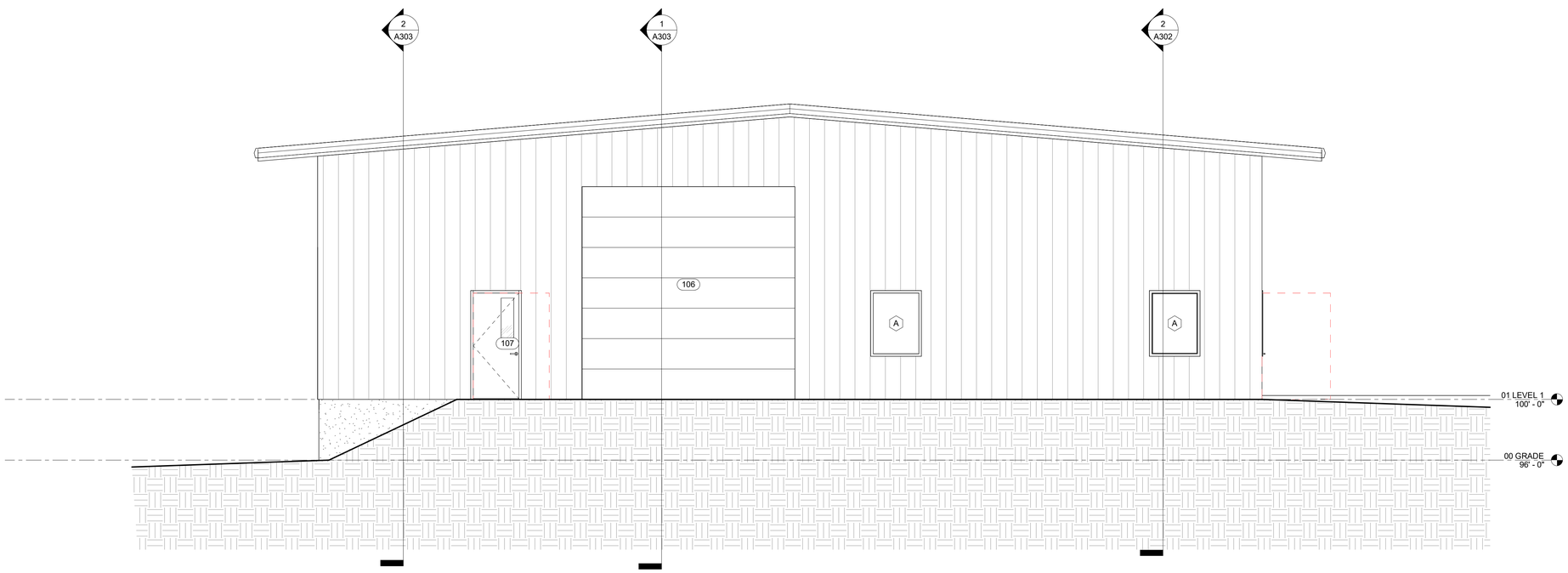
CROSS COUNTRY FREIGHT
SITE PLAN

SHEET NO.
2 OF 2

DATE:
3/10/25



1 SOUTH ELEVATION
1/4" = 1'-0"



2 WEST ELEVATION
1/4" = 1'-0"

1 2 4 8
SCALE: 1/4" = 1'-0"

Hein Bond
ARCHITECTS
235 S. David, Ste. D, Casper, WY 82601
307.234.3601 heinbond.com

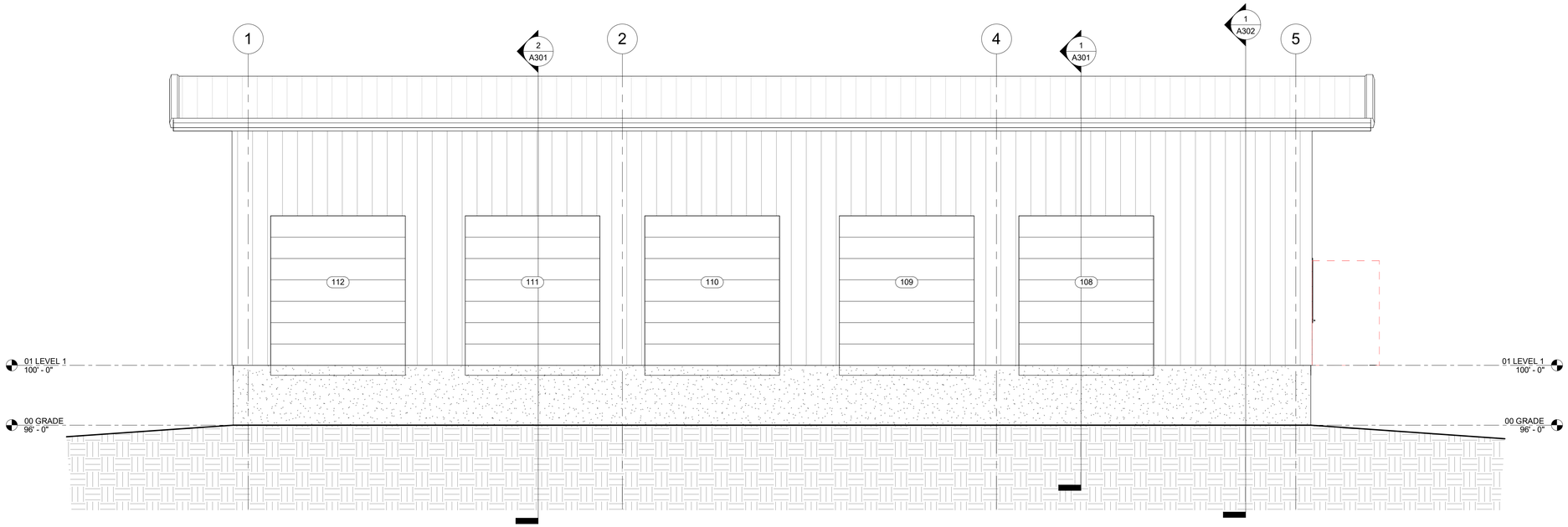
New Warehouse for:
Cross Country Freight
Lots 11 & 12, Opportunity Subdivision, Mills, Wyoming

Job No.	24-CCFS
Date:	2/28/2025
Drawn By:	JCB

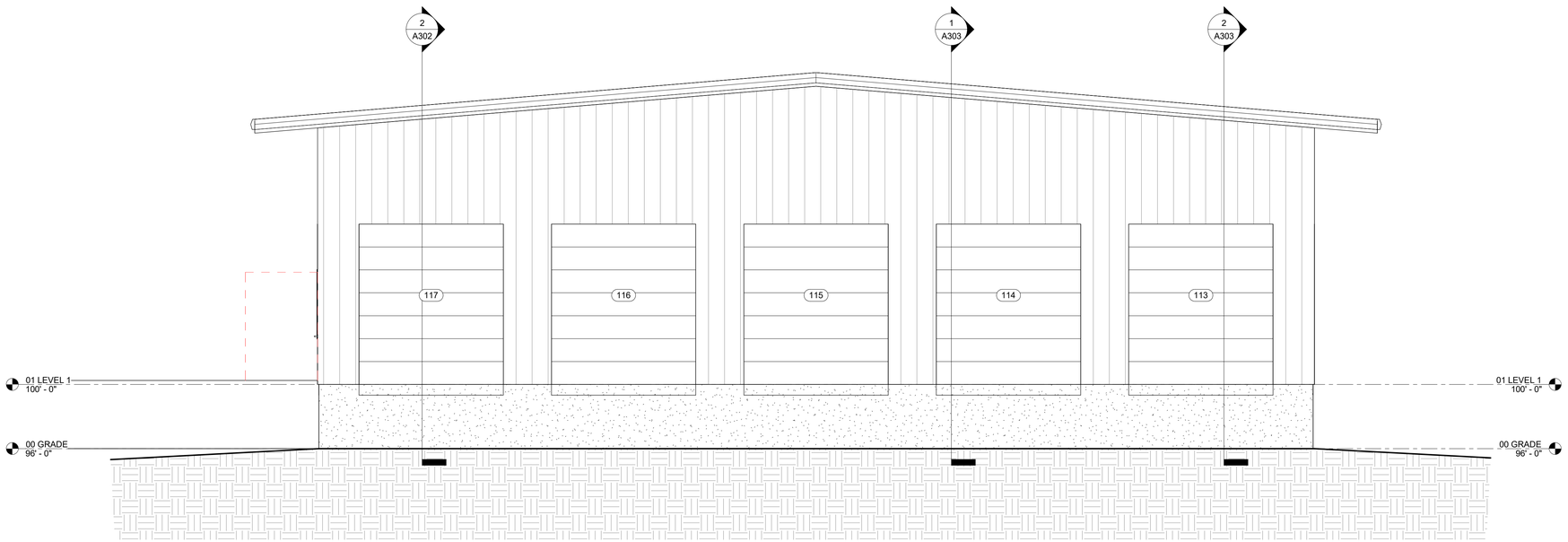
REVISIONS

EXTERIOR ELEVATIONS

A201



1 NORTH ELEVATION
1/4" = 1'-0"



2 EAST ELEVATION
1/4" = 1'-0"

1 2 4 8
SCALE: 1/4" = 1'-0"

Hein Bond
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307.234.3601 heinbond.com

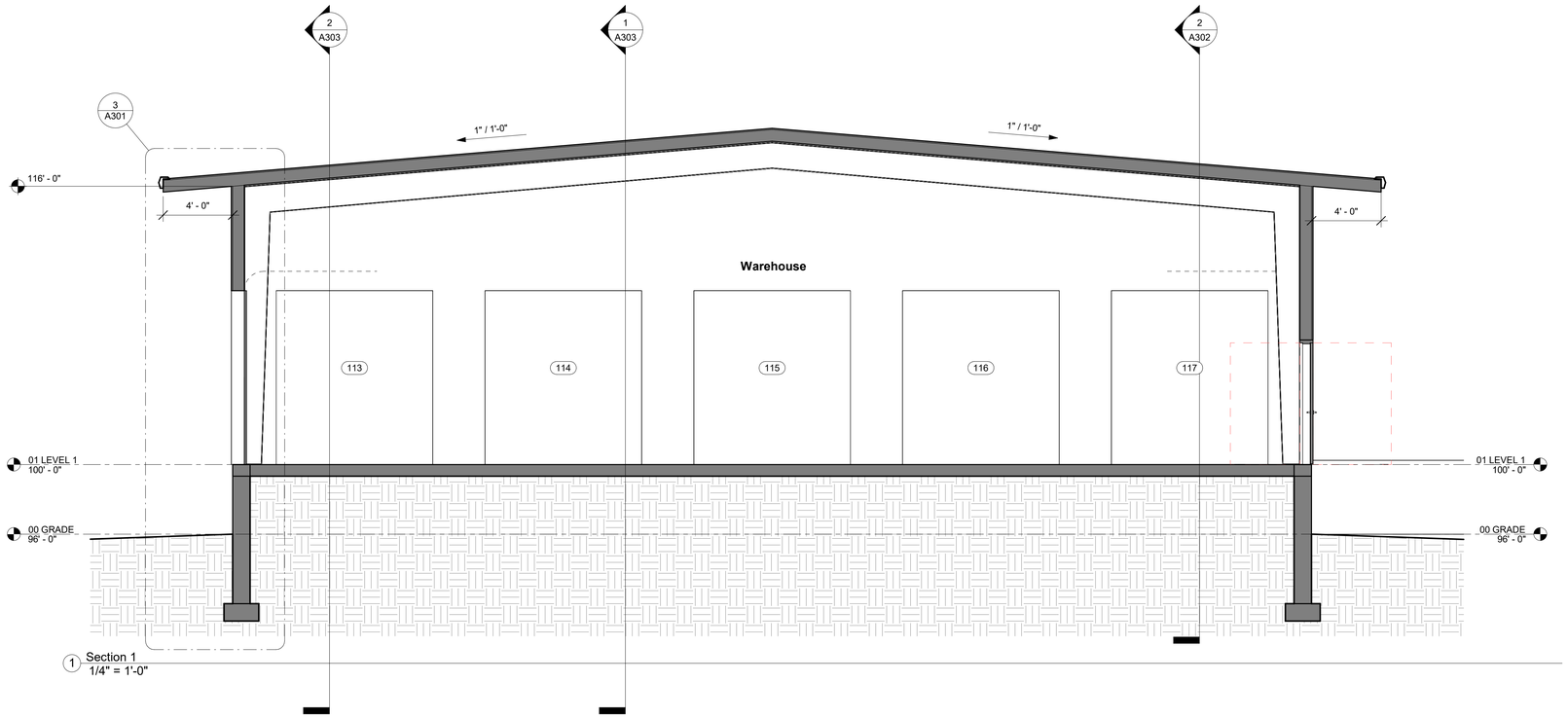
New Warehouse for:
Cross Country Freight
Lots 11 & 12, Opportunity Subdivision, Mills, Wyoming

Job No.	24-CCFS
Date:	2/28/2025
Drawn By:	JCB

REVISIONS

EXTERIOR ELEVATIONS

A202



1 Section 1
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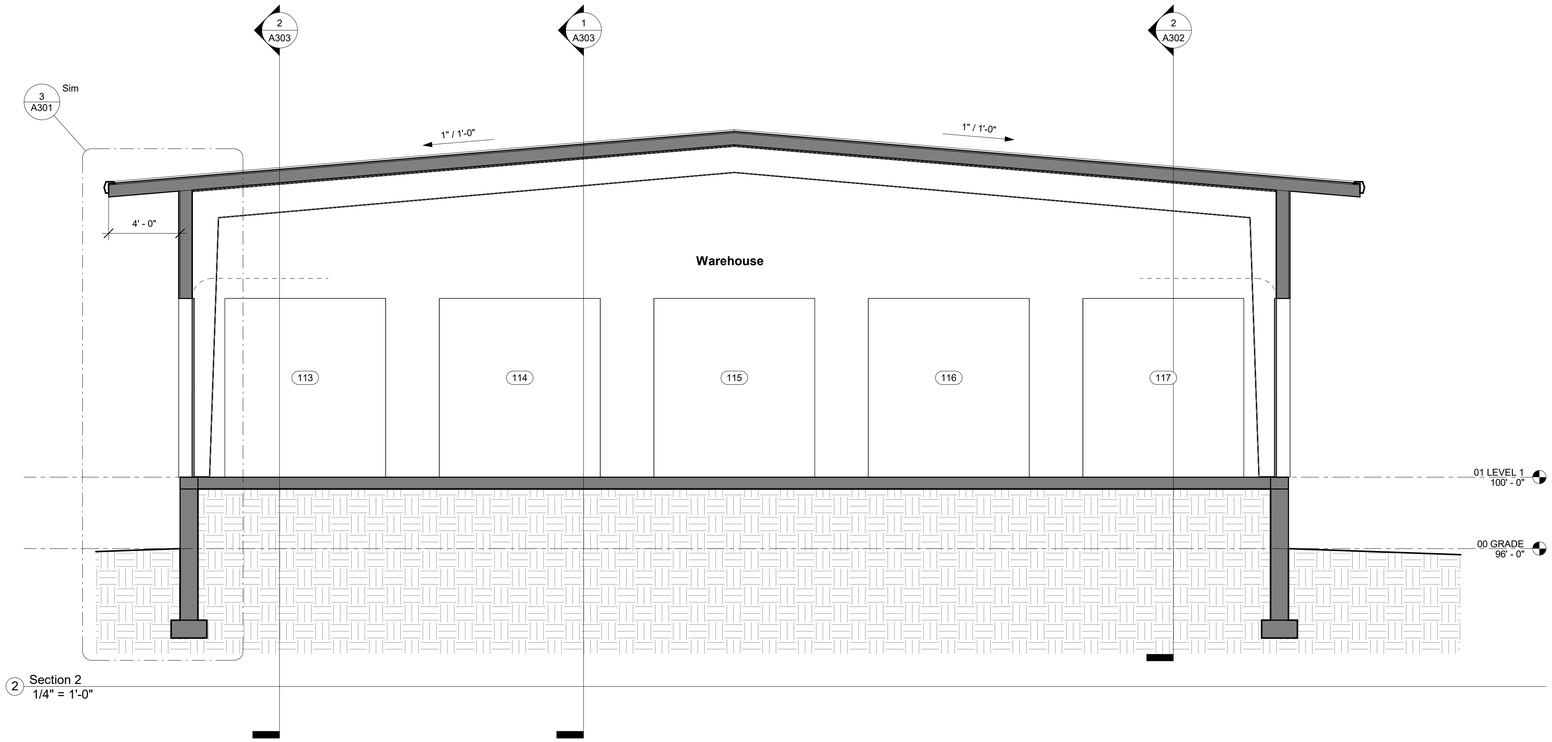

2 Section 2
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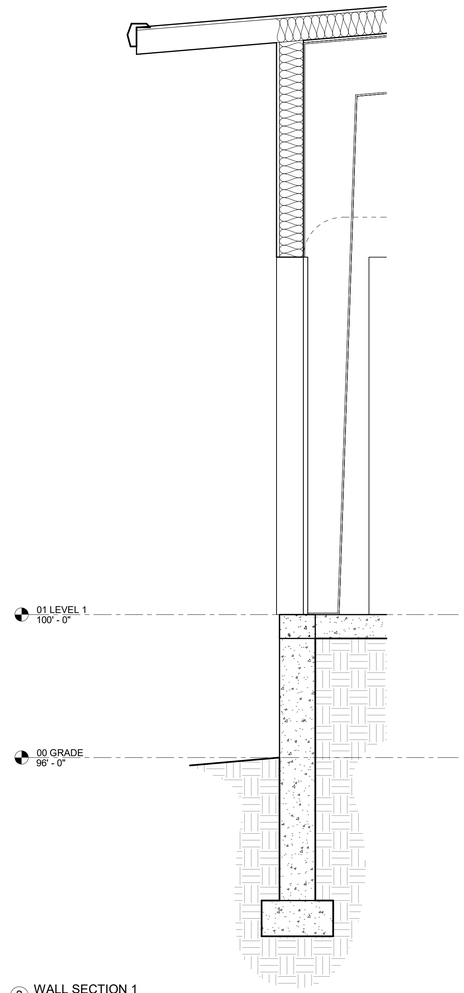

3 WALL SECTION 1
1/2" = 1'-0"

1 2 4 8
SCALE: 1/4" = 1'-0"

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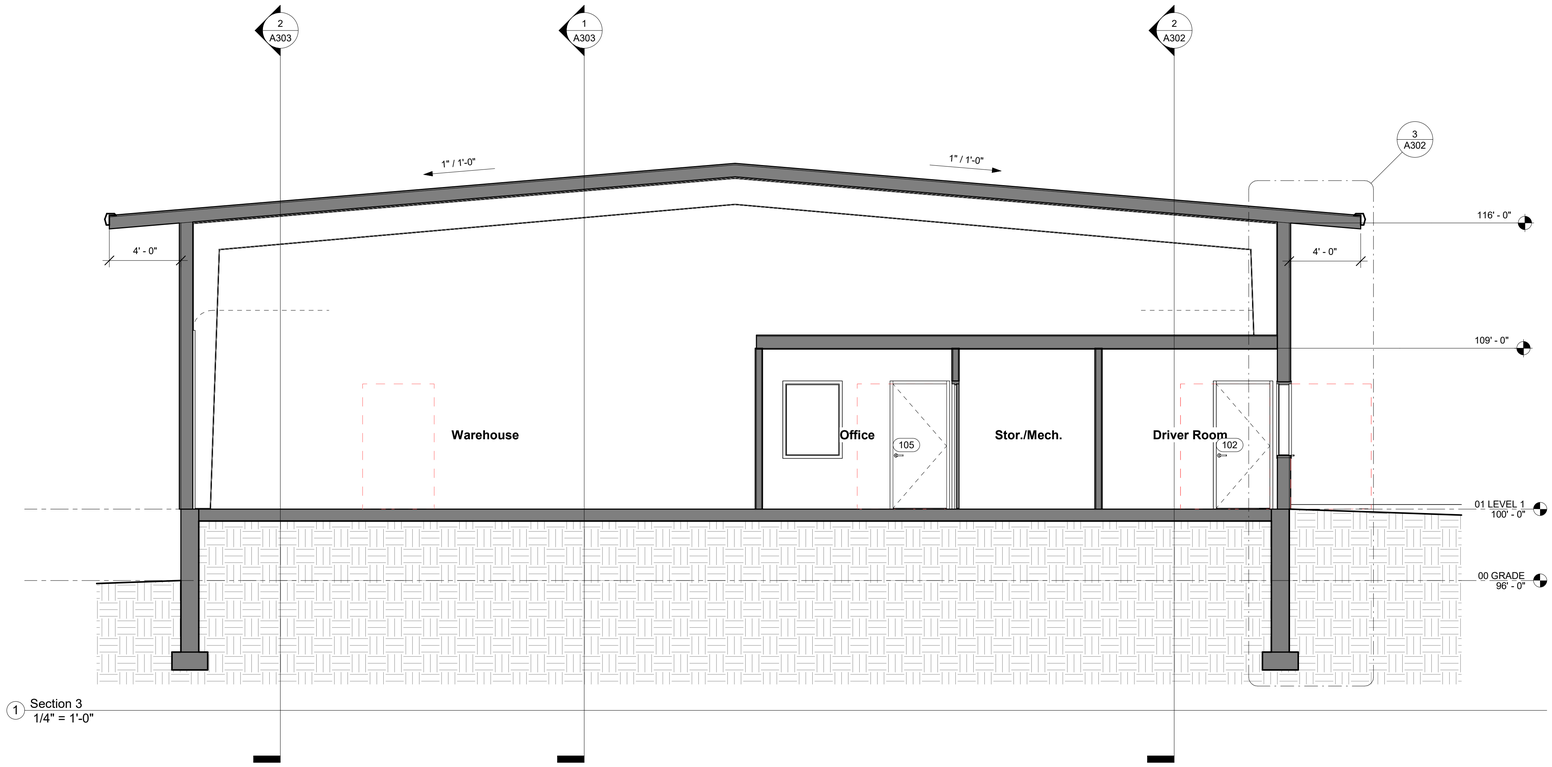
New Warehouse for:
Cross Country Freight
Lots 11 & 12, Opportunity Subdivision, Mills, Wyoming

Job No.	24-CCFS
Date:	2/28/2025
Drawn By:	JCB

REVISIONS

BUILDING SECTIONS

A301



1 Section 3
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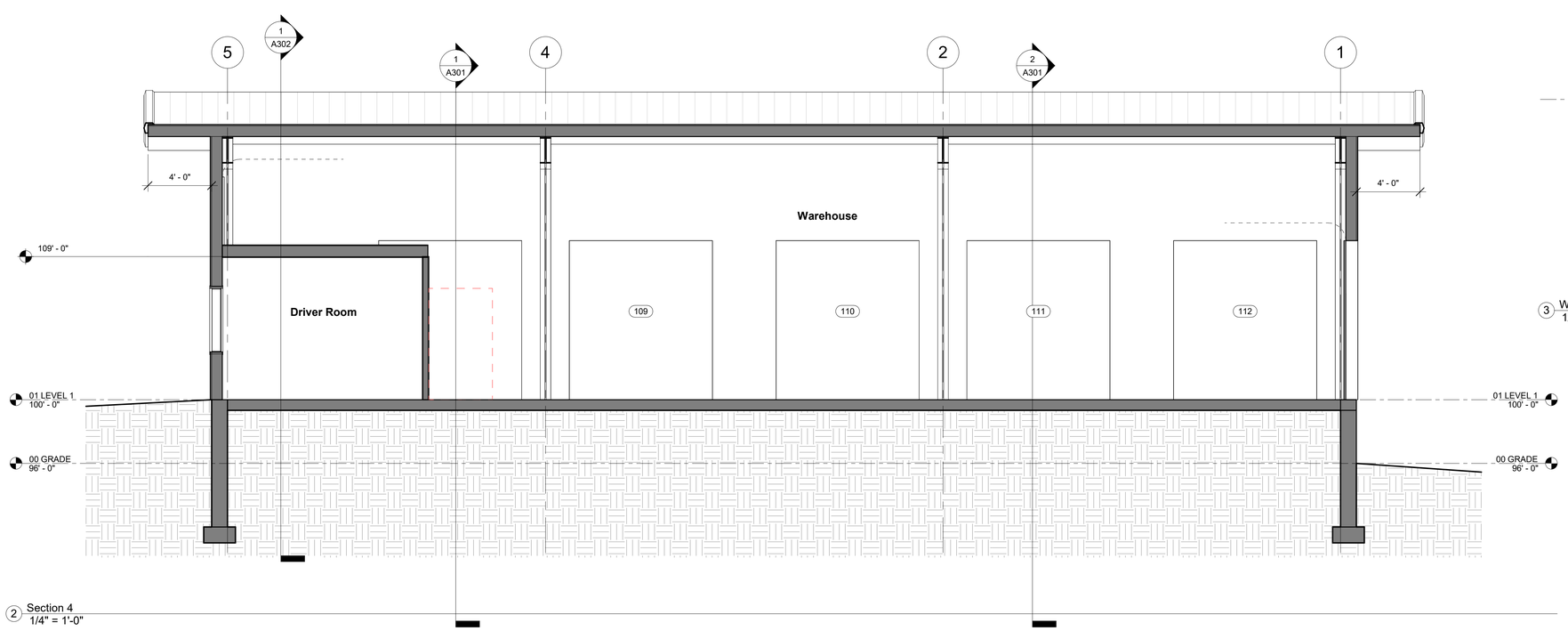

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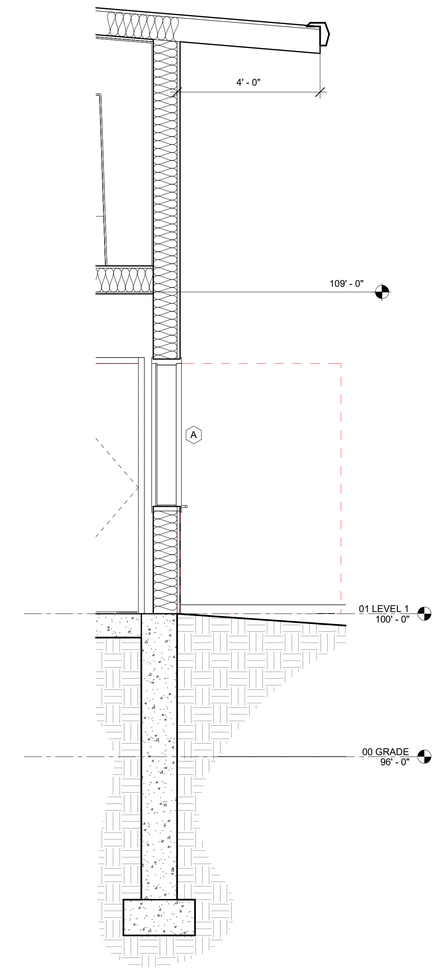


3 WALL SECTION 2
1/2" = 1'-0"

SCALE: 1/8" = 1'-0"

Hein Bond ARCHITECTS
235 S. David, Ste. D, Casper, WY 82601
307.234.3601 heinbond.com

7/28/2025 11:32:12 AM

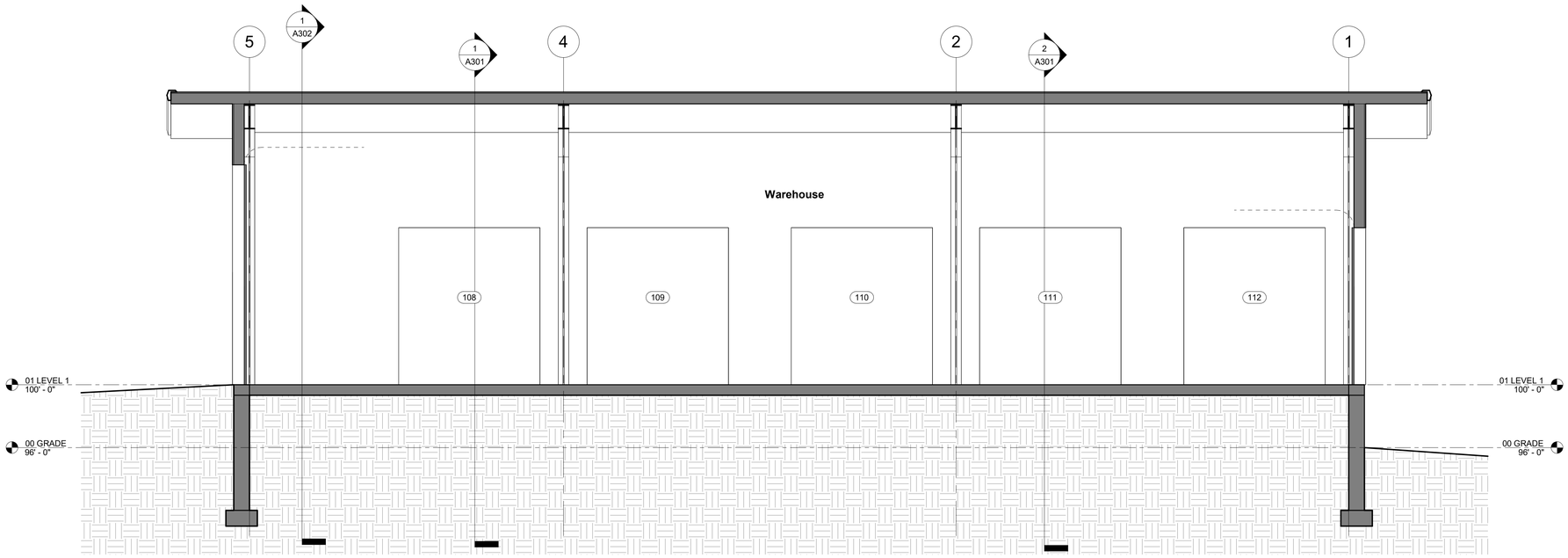
New Warehouse for:
Cross Country Freight
Lots 11 & 12, Opportunity Subdivision, Mills, Wyoming

Job No.	24-CCFS
Date:	2/28/2025
Drawn By:	JCB

REVISIONS

BUILDING SECTIONS

A302



1 Section 5
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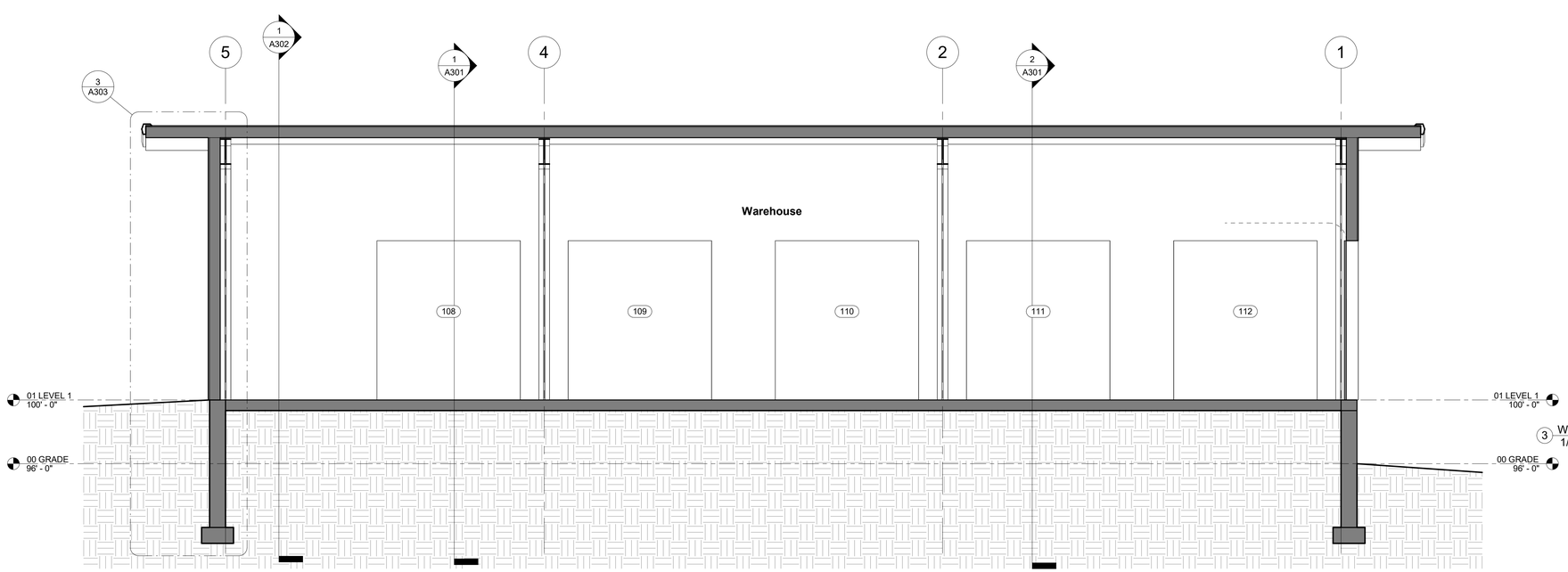

2 Section 6
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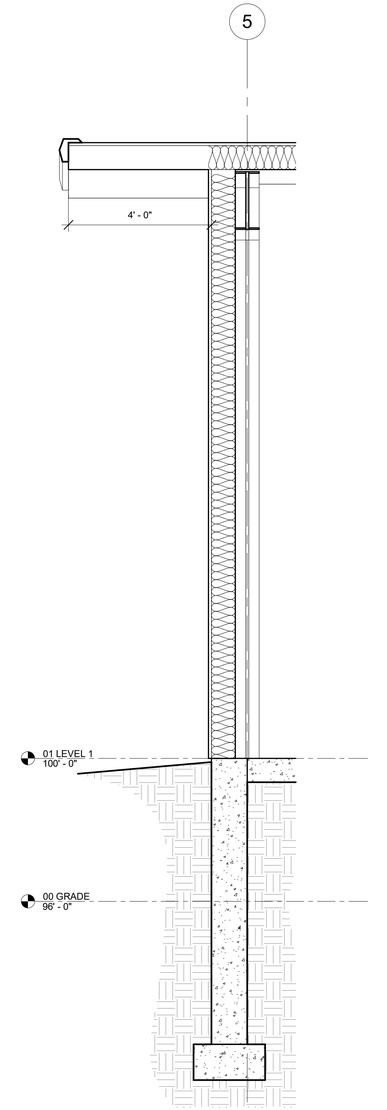

3 WALL SECTION 3
1/2" = 1'-0"

1 2 4 8
SCALE: 1/4" = 1'-0"

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New Warehouse for:
Cross Country Freight
Lots 11 & 12, Opportunity Subdivision, Mills, Wyoming

Job No.	24-CCFS
Date:	2/28/2025
Drawn By:	JCB

REVISIONS

BUILDING SECTIONS

A303

SITE PLAN SUBMITTAL

CROSS COUNTRY FREIGHT

999 TKS COURT

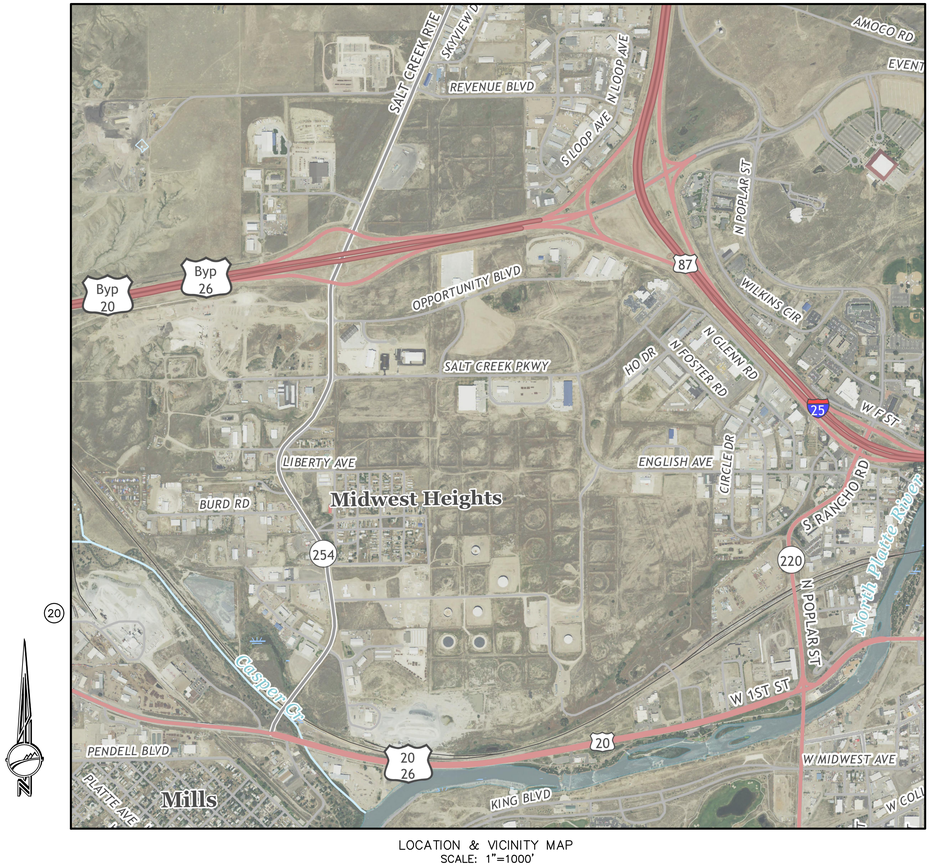
MILLS, WYOMING

SITE PLAN CHECKLIST

1. Legal description and common address(es) of the proposed site: LOTS 11 AND 12, OPPORTUNITY SUBDIVISION, CITY OF MILLS
2. Title block stating name of project, designer, and address and telephone number of designer:
   PROJECT: CROSS COUNTRY FREIGHT
   CONTRACTOR: CASPAR BUILDING SYSTEMS, INC
   1975 OLD SALT CREEK RD
   CASPER, WY 82601
   CIVIL ENGINEER: WLC ENGINEERING & SURVEYING, INC
   200 PRONGHORN ST
   CASPER, WY 82601
3. Names of all abutting property owners if other than the petitioner: AS SHOWN
4. Surrounding land uses, buildings, and zoning on all abutting sides, including those lands separated from the land under consideration by a street, alley, or other roadway: AS SHOWN
5. Current zoning of the land under consideration and proposed zoning, if applicable:
   CURRENT ZONING: I-L
   PROPOSED ZONING: I-L
6. North arrow, scale of site plan at a scale of 1"=10' or a multiple thereof, and date site plan was prepared: AS SHOWN
7. Land area dimensions: AS SHOWN
8. Dimensions of all setbacks and heights of all proposed buildings: AS SHOWN
9. Location and dimensions of all proposed off-street loading dock areas, including street access and traffic flow, to these areas: AS SHOWN
10. Location of all trash receptacles: AS SHOWN
11. Locations and types of all advertising signs and fences: AS SHOWN
12. Any screening or screening devices used to minimize or eliminate areas which tend to be unsightly: NONE PROPOSED
13. Locations of existing and proposed exterior lighting, heights of poles, and size and number of fixtures: AS SHOWN. WALL PACKS ON THE BUILDING.
14. Names and widths of all adjacent streets, dimensions and location of all public and private roadways, streets, or driveways, both paved and unpaved, including right-of-way, pavement width, and proposed uses of right-of-way: AS SHOWN
15. Location and dimensions of existing and proposed curb cuts and sidewalks: AS SHOWN
16. Off-street parking spaces, locations and dimensions, layout, traffic control, compact and handicap parking spaces, including all surface markings such as directional arrows: AS SHOWN
17. Location of all wheel stops, bumper guards, and curbing warranted by topography or traffic and pedestrian circulation: NONE PROPOSED.
18. Types of ground or yard surfacing throughout, grass, paving, gravel, etc: AS SHOWN
19. Existing and proposed easements: AS SHOWN
20. Vicinity/Location map at a scale of 1"=600' clearly indicating the location of the land in question with respect to a larger recognizable area: AS SHOWN
21. General notes to include a summary table on the sire plan:
    a. Total land area in acres or square feet: 1.84 AC (LOT 11) 3.15 AC (LOT 12)
    b. Total building footprint in square feet: PROPOSED 4,375 SF
    c. Total square feet of building addition: N/A
    d. Percentage of land covered by buildings: 5.5% OF LOT 11
    e. Building height(s): SEE ELEVATIONS
    f. Number of stories and total square footage of leaseable space: ONE STORY, 4375 SF
    g. Total number of parking spaces: 5 REGULAR, 2 HANDICAPPED, 13 TRACTOR-TRAILER SPOTS
    h. Square footage of parking areas(s): 125,900 SF
    i. Percentage of land covered by parking: 58% OF LOT 11 AND LOT 12
    j. Square footage of all landscaped areas: 3,900 SF
    k. Percentage of site covered by landscaping: 4.9% OF LOT 11
22. Numbering of items on the site plan to correspond to items on this checklist: AS SHOWN
23. Existing and proposed contours: AS SHOWN
24. Elevations of the building(s) to be constructed (front, rear, side): SEE ARCHITECTURAL DRAWINGS
25. Surface drainage plans for sites at ten thousand (10,000) square feet or more: DRAINAGE STUDY FOR CROSS COUNTRY FREIGHT SITE DEVELOPMENT, PREPARED BY WLC ENGINEERING AND SURVEYING, MARCH 10, 2025.
26. Pavement design report for parking areas: AS RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR CROSS COUNTRY FREIGHT FACILITY, PREPARED BY JB ENGINEERS, FEBRUARY 18, 2025: LIGHT DUTY ASPHALT PAVEMENT 4" PMP/6" BASE; HEAVY DUTY ASPHALT PAVEMENT 5" PMP/8" BASE, CONCRETE PAVEMENT 6" CONCRETE/ 4" BASE.
27. Traffic study (if required by the City Engineer, Planning Staff, Planning and Zoning Boards or City Council): NONE PROPOSED

LEGEND

RECOVERED BRASS CAP	EX ELECTRIC METER	PROPERTY BOUNDARY
RECOVERED ALUM. CAP	EX ELECTRIC VAULT	FENCE
RECOVERED REBAR	EX CONDUIT RISER	℄ ROAD
RECOVERED IRON PIPE	EX SANITARY MANHOLE	EX EDGE ASPHALT
RECOVERED CORNER	EX SANITARY CLEANOUT	EX EDGE CONCRETE
EX SIGN	EX SEPTIC CLEANOUT	EX EDGE GRAVEL
EX MONITOR WELL	EX STORM MANHOLE	EX FLOWLINE
EX TREE	EX STORM INLET	EASEMENT
EX BUSH	EX TELEPHONE MARKER	EX CONTOUR MAJOR
EX BORE HOLE	EX TELEPHONE PEDESTAL	EX CONTOUR MINOR
EX TV PEDESTAL	EX TELEPHONE MANHOLE	EX FIBER
EX TV RECEIVER	EX TELEPHONE PULLBOX	EX PIPELINE
EX GAS METER	EX TRAFFIC SIGNAL	EX GASLINE
EX GAS VALVE	EX TRAFFIC CONTROL BOX	EX POWERLINE
EX GAS RISER	EX WATER VALVE	EX STORM SEWER
EX PIPELINE MARKER	EX FIRE HYDRANT	EX SANITARY SEWER
EX TEST LEAD	EX CURB STOP	EX TELEPHONE
EX POWER POLE	EX SPIGOT	EX WATERLINE
EX POWER TRANSFORMER	EX WATER METER	EX CABLE TV
EX LIGHT POLE	EX SPRINKLER VALVE BOX	EX OVERHEAD POWER
EX CATHODIC TEST	EX SPRINKLER HEAD	CHAIN LINK FENCE
EX GUY POLE	EX WATER MANHOLE	PROP EDGE ASPHALT
EX GUY ANCHOR	EX GAS PUMP	PROP EDGE CONCRETE
EX SWITCH POLE	PROP SANITARY PUMP	PROP CONTOUR MAJOR
		PROP CONTOUR MINOR
		PROP GASLINE
		PROP POWERLINE
		PROP STORM SEWER
		PROP SANITARY SEWER
		PROP WATERLINE



LOCATION & VICINITY MAP
SCALE: 1"=1000'

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Drwg. By: JLM W.O. No.: 18041
Chk. By: FGF Book No.:
Acad File: CCF DESIGN_CURRENT.dwg

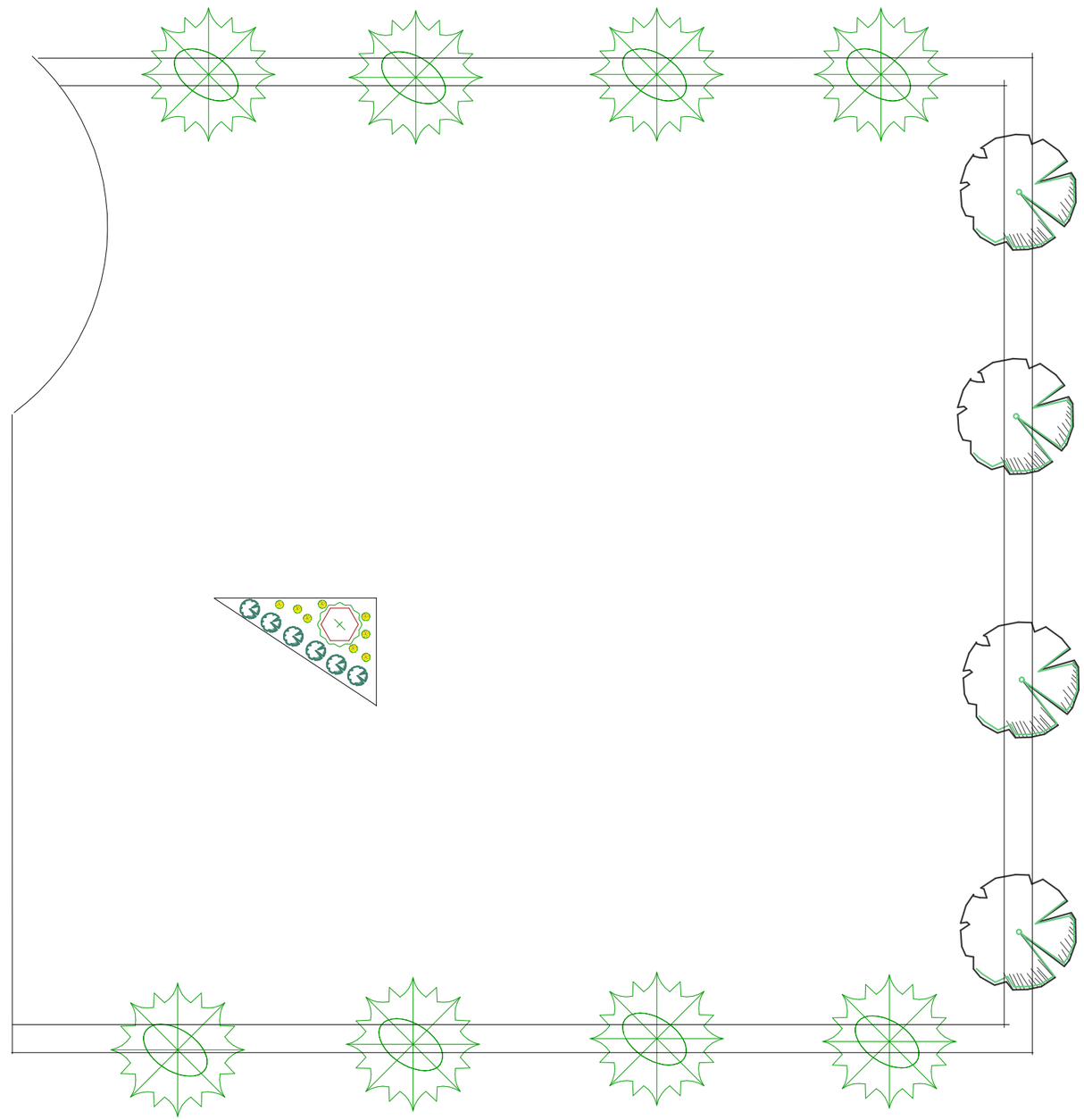
FOR: CASPAR BUILDING SYSTEMS
1975 SALT CREEK HWY
CASPER, WY 82601

REVISIONS
4/4/25-P&Z COMMENTS

CROSS COUNTRY FREIGHT
SITE PLAN COVER

SHEET NO.
1 OF 2

DATE:
3/10/25



LEGEND

COMMON NAME	QTY
SHRUB, DECIDUOUS	
POTENTILLA, GOLD DROP	10
SHRUB, EVERGREEN CONIFER	
JUNIPER, BLUE CHIP	6
TREE, DECIDUOUS	
ASH, AUTUMN PURPLE	4
HONEY LOCUST SHADEMASTER	8
MAPLE, HOTWINGS TATARIAN	1

Revision #:	Scale:	Landscape Plan: Cross Country Freight	Landscape Design by: Don Stoner
Date: 4/2/2025	1" = 50'	Cross Country Freight	Stoner Lawn and Landscape

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CASPER, WY 82601
P: 307-266-2524

Drainage Study
for
Cross Country Freight Site Development

999 TKS Court
Mills, WY

Prepared for: Caspar Building Systems

Prepared by: Jason Meyers, PE

Date: March 10, 2025

INTRODUCTION

The proposed Cross Country Freight site development is located at 999 TKS Court, Mills, WY. The site encompasses approximately 5.0 acres of undeveloped land on Lots 11 and 12 of the Opportunity Subdivision to the City of Mills. The proposed development will include a 4,375 SF warehouse building and asphalt surfacing.

The Drainage Study will evaluate the pre-development runoff characteristics, post-development runoff characteristics, and determine stormwater detention requirements.

ANALYSIS PROCEDURE

The planning, design, and analysis of the existing and proposed improvements is conducted in accordance with the requirements and recommendations set forth in the City of Casper Storm Water Management Design Manual (SWMDM). Topography and existing improvements were collected through field survey information and available GIS information. This information is used to calculate the contributing basin drainage areas, ground slopes, and the ratio of improved and unimproved areas. The storm water runoff analysis for the pre-development and post-development conditions is conducted using the Rational Method. The use of this method is recommended for analysis of runoff for areas less than 200 acres. The detention pond analysis and outlet is modeled using Hydrology Studio software.

PRE DEVELOPMENT CONDITIONS

The site consists of one drainage basin. The Basin delineation is presented on the attached Pre-Developed Conditions drawing.

The Pre Development basin encompasses 5.0 acres and is undeveloped land with native grass cover. The basin slopes generally from the north-east to the south-west with slopes ranging from 3.2% to 0.6%. The runoff coefficient used for analysis is 0.3.

The peak 10-year and 100-year runoff rates are 1.7 cfs and 3.3 cfs, respectively. These runoff rates are used to determine the peak post development release rates from the site.

POST DEVELOPMENT CONDITIONS

The post development is the same as the pre development basin in size and general slope. The post development basin includes 60% of building roof and hard surfacing. The remaining 40% of the basin is undisturbed native grass. The combined runoff coefficient used for analysis is 0.66.

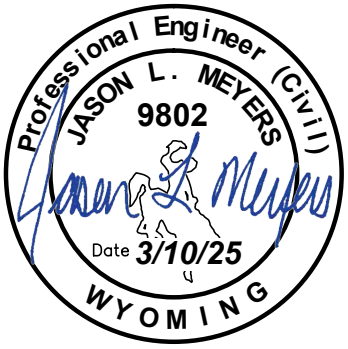
The peak 10-year and 100-year runoff rates are 6.6 cfs and 11.7 cfs, respectively. Runoff is directed overland to the south-west corner of the site to a proposed stormwater detention pond.

The stormwater detention bottom elevation is 5293.0' and an overflow elevation of 5294.0' for a total volume of 7,300 cubic feet (CF). The outlet of the pond is a 10" culvert discharging to the west. The 10-year discharge is 1.9 cfs. See Appendix A for pond routing

Storm runoff greater than the 10-year event will overtop the pond to the west.

CONCLUSION

This drainage study addresses the pre-development and post-development runoff from the proposed Cross Country Freight site. The proposed stormwater detention area and discharge structure releases 10-year runoff rates at pre-development rates.



Jason Meyers, PE

Hydrograph Report

APPENDIX A

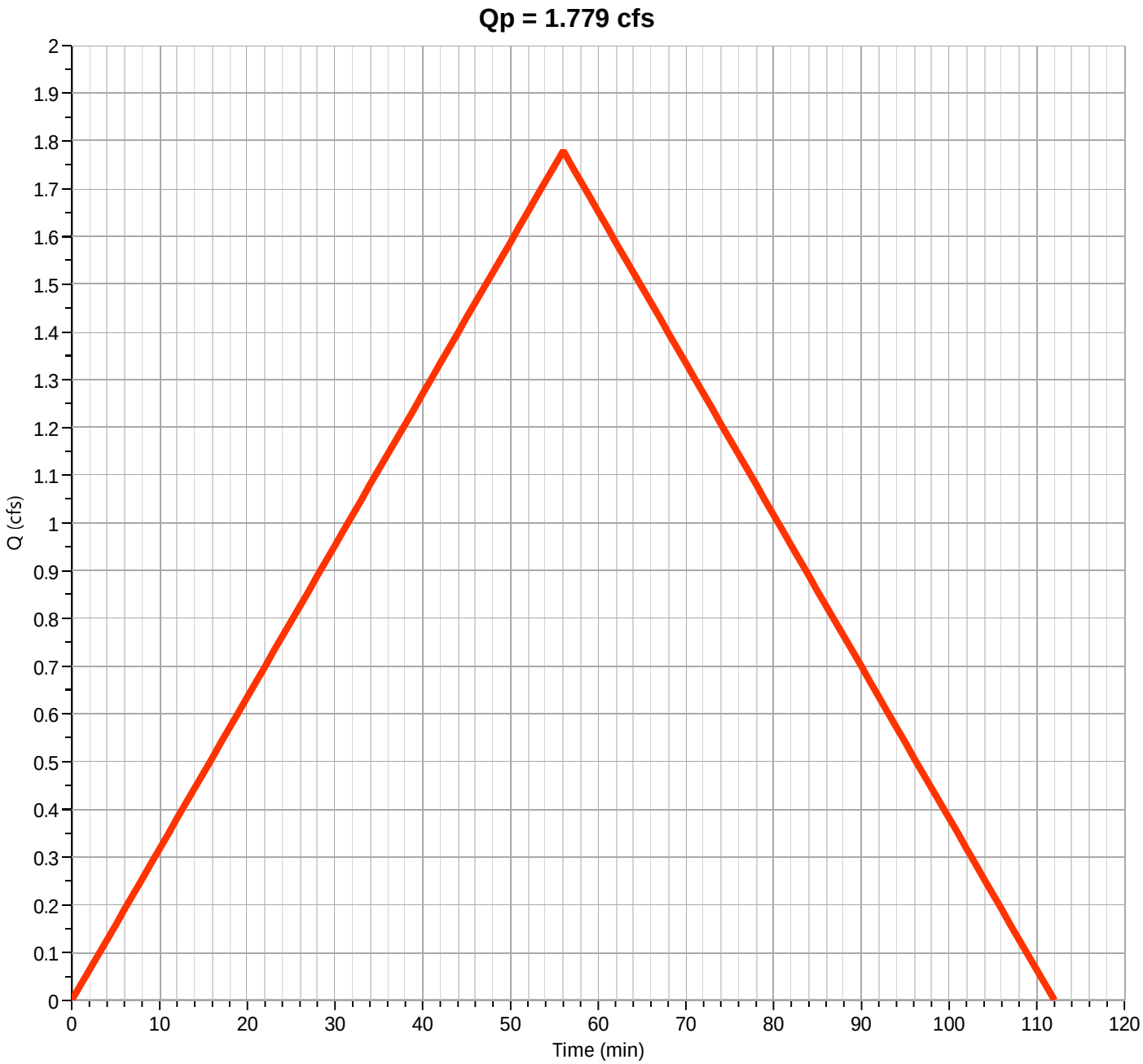
Hydrology Studio v 3.0.0.35

File: CCF 2-28-25.hys
03-06-2025

Pre CCF SITE

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 1.779 cfs
Storm Frequency	= 10-yr	Time to Peak	= 56 min
Time Interval	= 1 min	Runoff Volume	= 5,977 cuft
Drainage Area	= 5.0 ac	Runoff Coeff.	= 0.3
Tc Method	= User	Time of Conc. (Tc)	= 56.0 min
IDF Curve	= CASPER IDF.idf	Intensity	= 1.19 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Report

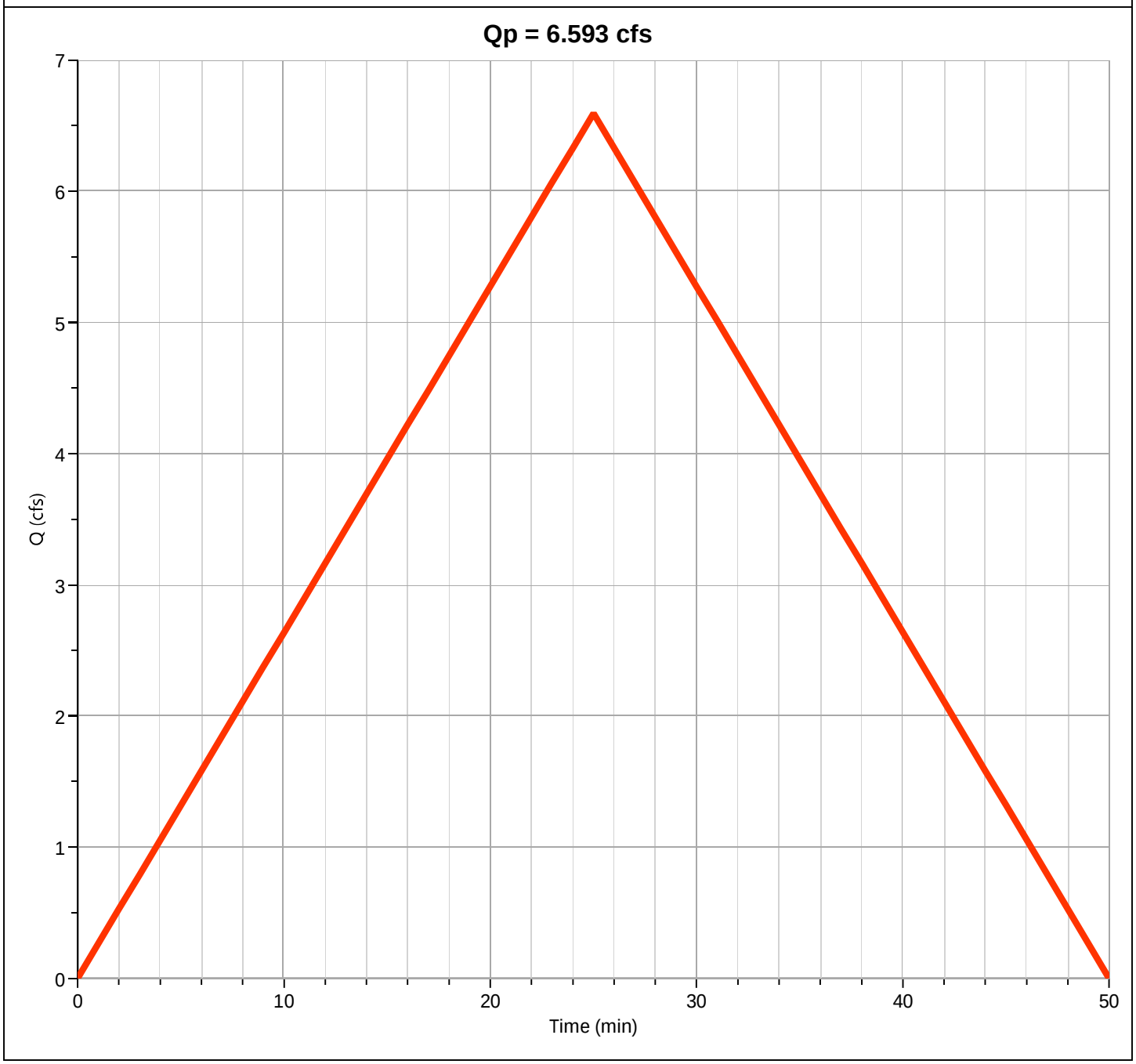
Hydrology Studio v 3.0.0.35

File: CCF 2-28-25.hys
03-06-2025

POST CCF SITE

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 6.593 cfs
Storm Frequency	= 10-yr	Time to Peak	= 25 min
Time Interval	= 1 min	Runoff Volume	= 9,890 cuft
Drainage Area	= 5.0 ac	Runoff Coeff.	= 0.66
Tc Method	= User	Time of Conc. (Tc)	= 25.0 min
IDF Curve	= CASPER IDF.idf	Intensity	= 2.00 in/hr
Freq. Corr. Factor	= 1.00	Asc/Rec Limb Factors	= 1/1



Hydrograph Report

Hydrology Studio v 3.0.0.35

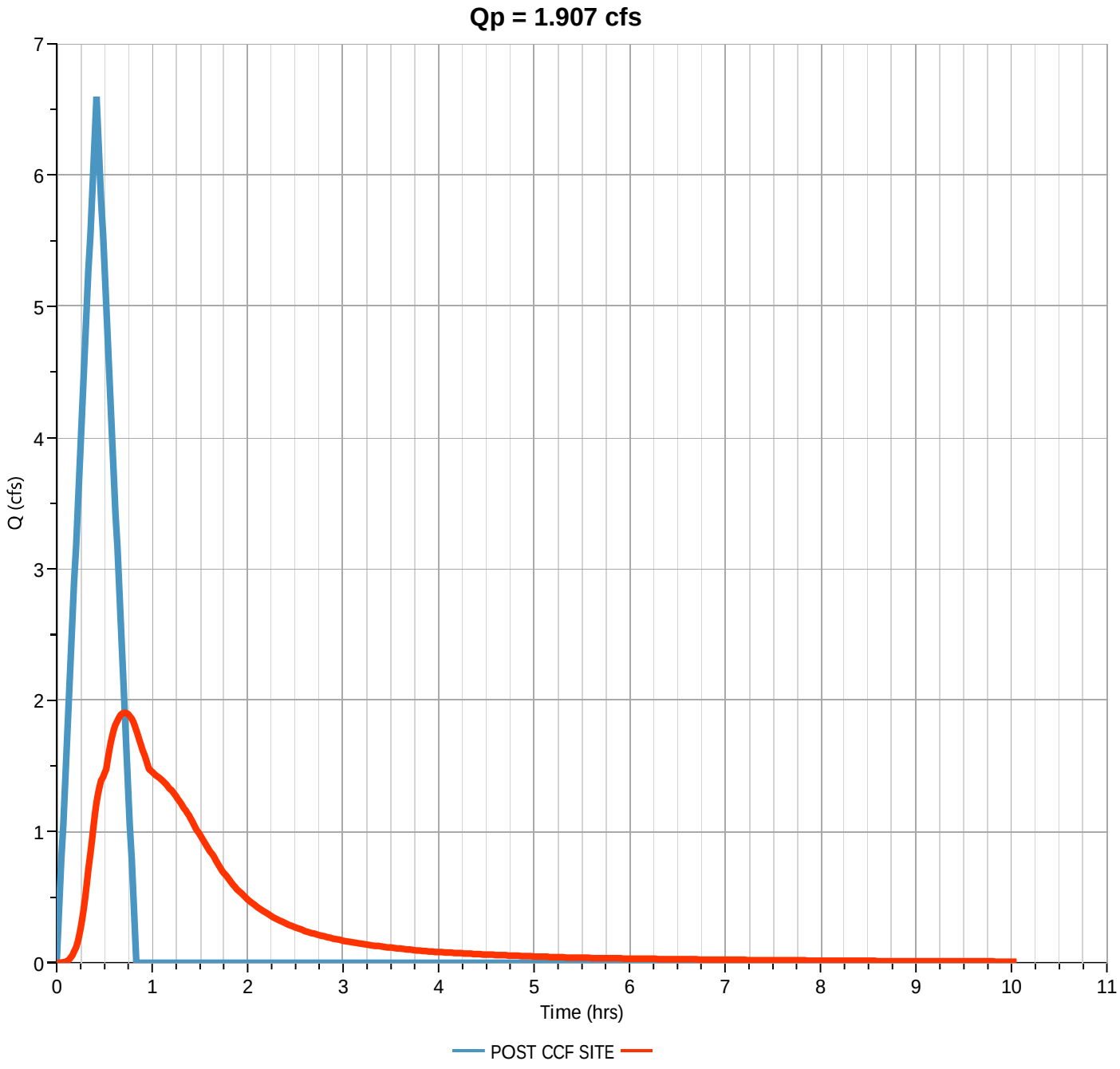
File: CCF 2-28-25.hys
03-06-2025

Hyd. No. 3

Hydrograph Type	= Pond Route	Peak Flow	= 1.907 cfs
Storm Frequency	= 10-yr	Time to Peak	= 43 min
Time Interval	= 1 min	Hydrograph Volume	= 9,858 cuft
Inflow Hydrograph	= 2 - POST CCF SITE	Max. Elevation	= 5293.99 ft
Pond Name	= DETENTION POND	Max. Storage	= 7,248 cuft

Pond Routing by Storage Indication Method

Center of mass detention time = 1.09 hrs



Pond Report

File: CCF 2-28-25.hys

Hydrology Studio v 3.0.0.35

03-06-2025

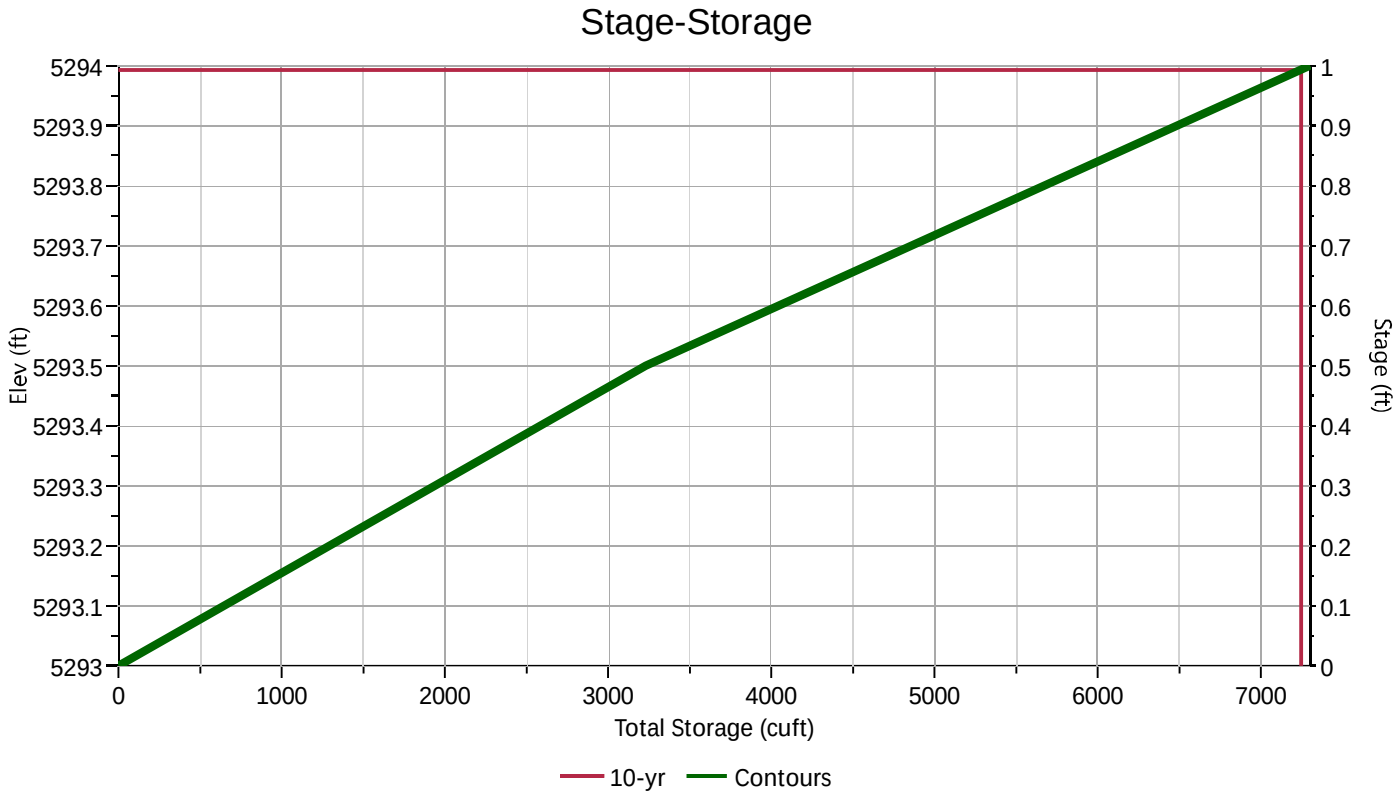
DETENTION POND

Stage-Storage

User Defined Contours	
Description	**Input**
Bottom Elevation, ft	5293.00
Voids (%)	100.00
Volume Calc	None

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour Area (sqft)	Incr. Storage (cuft)	Total Storage (cuft)
0.00	5293.00	5,675	0.000	0.000
0.50	5293.50	7,245	3,230	3,230
1.00	5294.00	9,040	4,071	7,301



Pond Report

File: CCF 2-28-25.hys

Hydrology Studio v 3.0.0.35

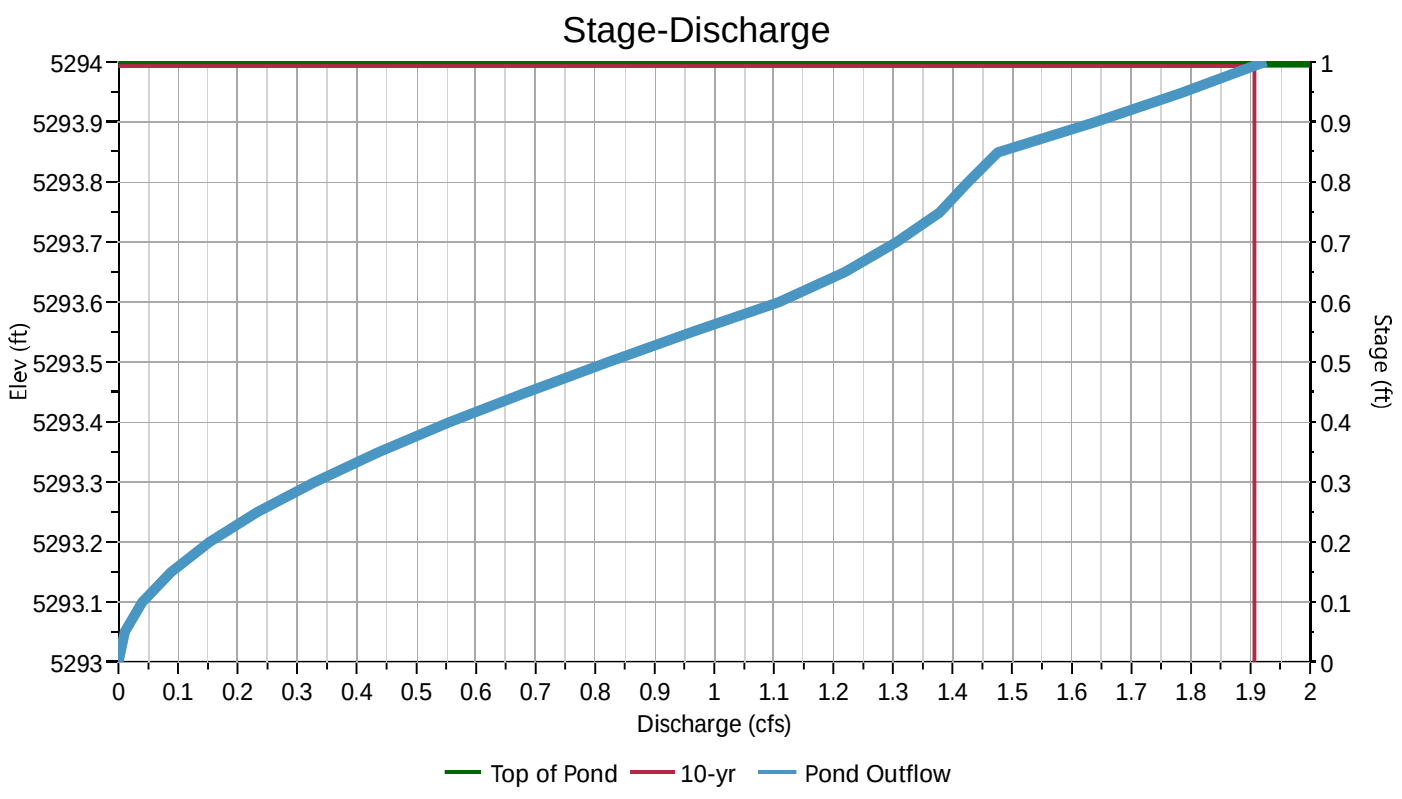
03-06-2025

DETENTION POND

Stage-Discharge

Culvert / Orifices	Culvert	Orifice 1	Orifice 2	Orifice 3	Perforated Riser	
Rise, in	10				Hole Diameter, in	
Span, in	10				No. holes	
No. Barrels	1				Invert Elevation, ft	
Invert Elevation, ft	5293.00				Height, ft	
Orifice Coefficient, Co	0.60				Orifice Coefficient, Co	
Length, ft	10					
Barrel Slope, %	2					
N-Value, n	0.013					

Weirs	Riser	Weir 1	Weir 2	Weir 3	Ancillary	
Shape / Type					Exfiltration, in/hr	
Crest Elevation, ft						
Crest Length, ft						
Angle, deg						
Weir Coefficient, Cw						



Pond Report

File: CCF 2-28-25.hys

Hydrology Studio v 3.0.0.35

03-06-2025

DETENTION POND

Stage-Storage-Discharge Summary

Stage (ft)	Elev. (ft)	Storage (cuft)	Culvert (cfs)	Orifices, cfs			Riser (cfs)	Weirs, cfs			Pf Riser (cfs)	Exfil (cfs)	User (cfs)	Total (cfs)
				1	2	3		1	2	3				
0.00	5293.00	0.000	0.000											0.000
0.50	5293.50	3,230	0.824 ic											0.824
1.00	5294.00	7,301	1.926 oc											1.926

Suffix key: ic = inlet control, oc = outlet control, s = submerged weir

Hydrograph Report

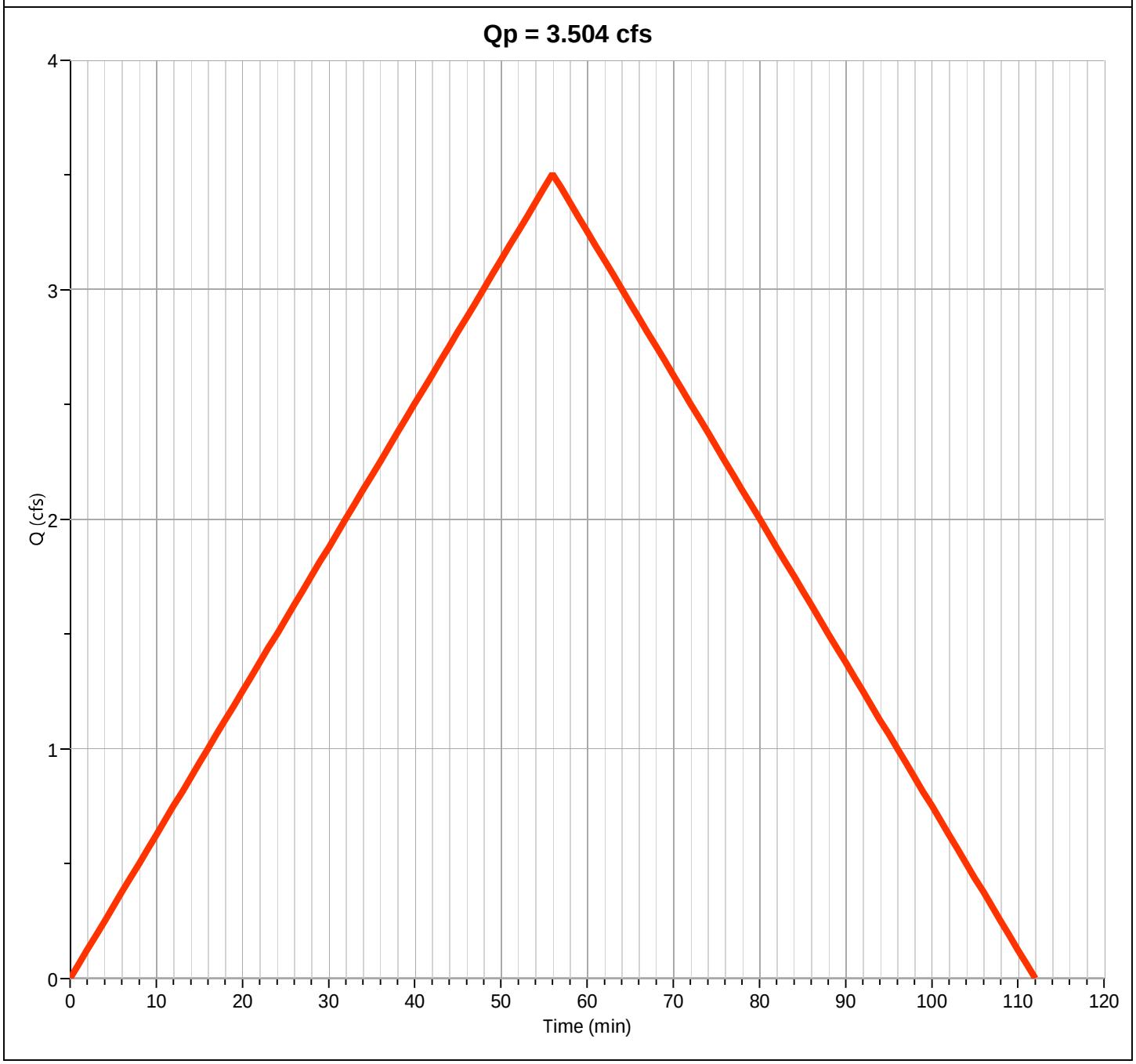
Hydrology Studio v 3.0.0.35

File: CCF 2-28-25.hys
03-06-2025

Pre CCF SITE

Hyd. No. 1

Hydrograph Type	= Rational	Peak Flow	= 3.504 cfs
Storm Frequency	= 100-yr	Time to Peak	= 56 min
Time Interval	= 1 min	Runoff Volume	= 11,775 cuft
Drainage Area	= 5.0 ac	Runoff Coeff.	= 0.3
Tc Method	= User	Time of Conc. (Tc)	= 56.0 min
IDF Curve	= CASPER IDF.idf	Intensity	= 1.87 in/hr
Freq. Corr. Factor	= 1.25	Asc/Rec Limb Factors	= 1/1



Hydrograph Report

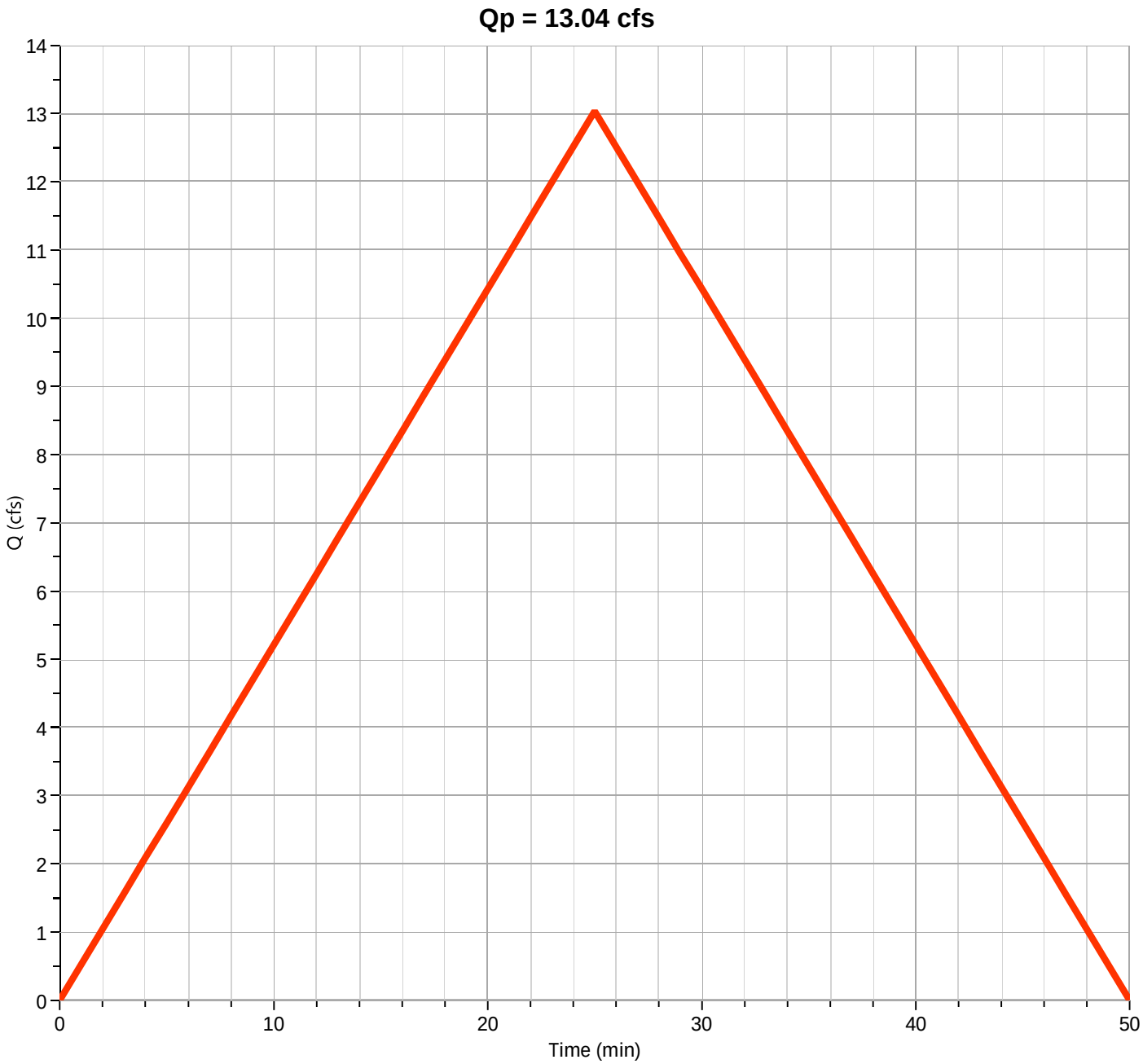
Hydrology Studio v 3.0.0.35

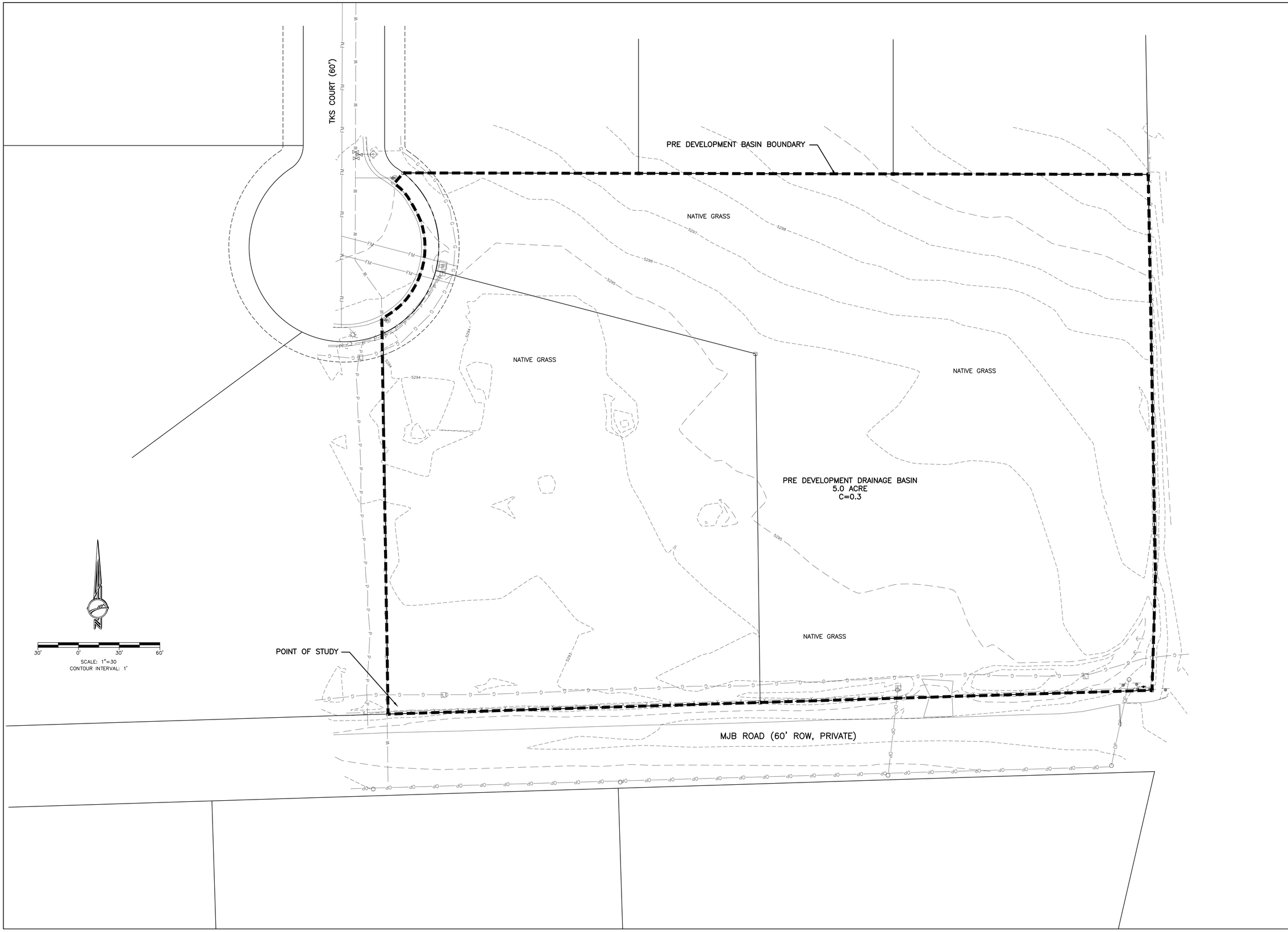
File: CCF 2-28-25.hys
03-06-2025

POST CCF SITE

Hyd. No. 2

Hydrograph Type	= Rational	Peak Flow	= 13.04 cfs
Storm Frequency	= 100-yr	Time to Peak	= 25 min
Time Interval	= 1 min	Runoff Volume	= 19,556 cuft
Drainage Area	= 5.0 ac	Runoff Coeff.	= 0.66
Tc Method	= User	Time of Conc. (Tc)	= 25.0 min
IDF Curve	= CASPER IDF.idf	Intensity	= 3.16 in/hr
Freq. Corr. Factor	= 1.25	Asc/Rec Limb Factors	= 1/1





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Chk. By: FGF Book No.:
Acad File: CCF DESIGN_CURRENT.dwg

FOR: CASPAR BUILDING SYSTEMS
1975 SALT CREEK HWY
CASPER, WY 82601

REVISIONS

CROSS COUNTRY FREIGHT
PRE DEVELOPMENT DRAINAGE BASIN

SHEET NO.
1 OF 1

DATE:
3/6/25

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FOR: CASPAR BUILDING SYSTEMS
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CASPER, WY 82601

REVISIONS

CROSS COUNTRY FREIGHT
POST DEVELOPMENT DRAINAGE BASIN

SHEET NO.
1 OF 1
DATE:
3/6/25

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VIPER Wall

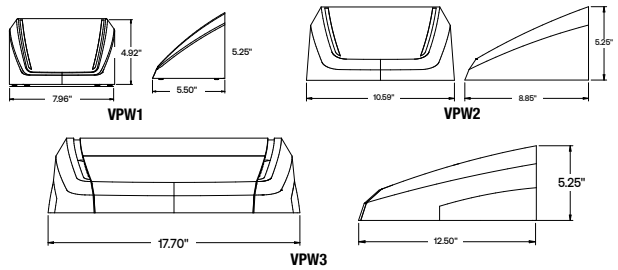
VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

MICROSTRIKE | OPTICS STRIKE

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



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

CONTROL TECHNOLOGY

CONNECT WIRED WIRELESS LIGHTGRID

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).
- DarkSky approved with 3000K CCT or warmer

WARRANTY

- 5 year limited warranty

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VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

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[16]	**FR**	Auto Front Row[7,15]	**UNV**	120-277V	**BLT**	Black Matte Textured
		24L-15	2,000 Lumens	**3K7**	3000K, 70 CRI[16]	**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
VPW2	Viper Wall 2	**48L-15**	2,000 Lumens	**5K7**	5000K, 70 CRI	**4F**	IES TYPE 4 Forward	**240**	240V	**DBS**	Dark Bronze Gloss Smooth
		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]	
NXWS12F	NX Networked Wireless Enabled Integral NXSMP2-OMNI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming[14]
NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming[9]
NXWS24F	NX Networked Wireless Enabled Integral NXSMP2-OMNI-HM PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming[9]
NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming[9]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor
WIR	LightGRID+ In-Fixture Module[9]
WIRSC	LightGRID+ In-Fixture Moduel with BTS occupancy[9]
Stand Alone Sensors[7,11,13]	
BTS-14F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor[4,9]
BTS-40F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor[4,9]
BTSO-12F	Bluetooth® Programmable, PIR Occupancy/Daylight Sensor, up to 12' mounting height[14]
Photocontrol[13]	
PC	Button Photocontrol 120-277V

Options	
F	Fusing[5,7]
E	Battery[6,7,8]
EH	Battery with Heater[6,7,8]
CS	Comfort Shield[7,10]
SP	10kA Surge Protector
2PF	Dual Power Feed[2,7,8]
2DR	Dual Driver[2,7,8]
CD	Customer Dimming[12]
DTS	Dimming Transfer Switch[7]

Notes:

1. Available with Micro Strike Optics only
2. Not available with 480V in Size 1 and Size 2
3. Networked controls cannot be combined with other control options
4. Not available with VPW1 or with 2PF or 2DR options
5. Must specify voltage (VPW1 & VPW2: 120V, 277V or 347V; VPW3: 120V, 208V, 240V, 277V, 347V or 480V)
6. See page 10 for detail Battery configurations
7. Not available in VPW1
8. 2PF can't be combined with E or EH; 2DR can't be combined with E or EH in VPW2
9. Not avialable in VPW1 and VPW2
10. Not available with Micro Strike 24L and 48L. Not available with Strike 18L and 36L
11. Not available with 2PF
12. Not available with Network Control options or Stand Alone Sensors. Can be ordered with PC
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)
16. DarkSky approved with 3000K CCT or warmer

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VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

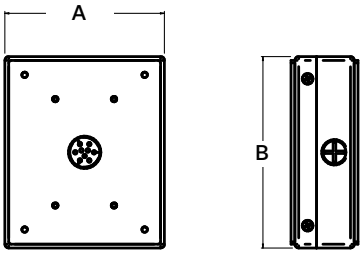
	Catalog Number	Description
☐	**WP-BB-XXX**	Back Box Accessory for conduit entry[1]
☐	**CS**	Comfort Shield[2]

Notes:

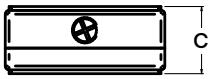
1 replace "xxx" with color option

2 Not available with Micro Strike 24L and 48L or Strike 18L and 36L

DIMENSIONS



Back Box Accessory



A	B	C
4.9"	5.9"	2.1"
124mm	150mm	53mm

CONTROLS FUNCTIONALITY

OUTDOOR LIGHTING CONTROLS OPTIONS

LIGHTGRID+

	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	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
NX Wireless	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
NX Wireless	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	LightGRID+ In-Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR
Independent	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
Independent	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
Independent	BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

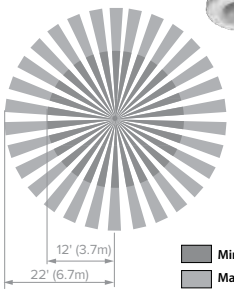
DEFAULT SETTINGS

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

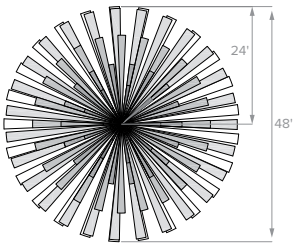
Stand Alone	**Occupancy Sensor**	Enabled
Stand Alone	**Occupancy Sensor Sensitivity**	7
Stand Alone	**Occupancy Sensor Timeout**	8 Minutes
Stand Alone	**Occupied Dim Level**	100%
Stand Alone	**Unoccupied Dim Level**	0% (Off)
Stand Alone	**Daylight Sensor**	Disabled

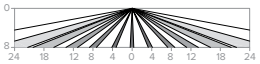
NX WIRELESS COVERAGE PATTERNS

NXSMP2-OMNI



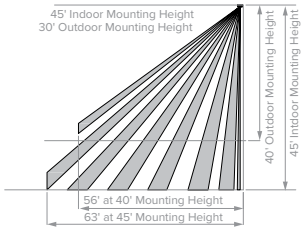
NXSMP2-LMO





Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

VIPER Wall

VPW1/VPW2/VPW3 LED WALLPACK

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 luminiares 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

NX LIGHTING CONTROLS

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

	OPERATING HOURS		
Ambient Temp.	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

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

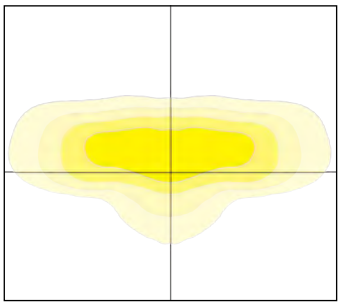
VPW1/VPW2/VPW3 LED WALLPACK

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

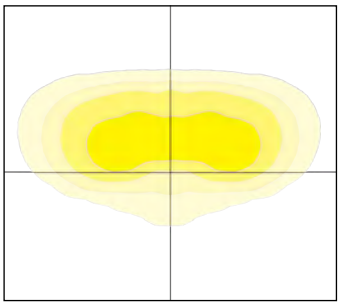
PHOTOMETRY

Mounting Height: 10ft

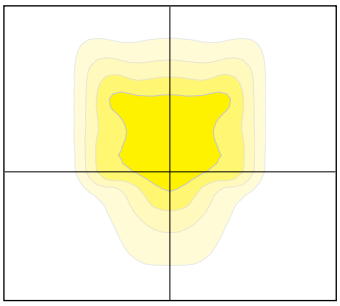
Type 2



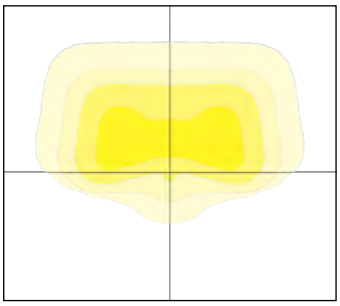
Type 3



Type 4F

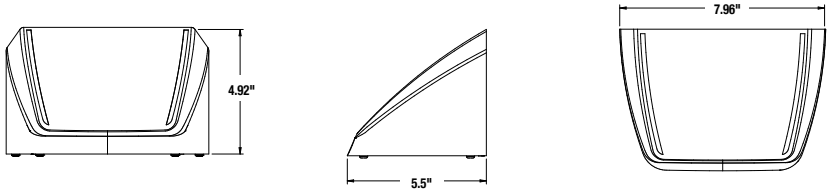


Type 4W

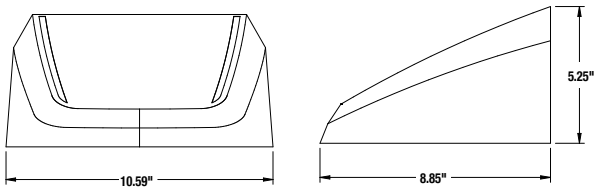


DIMENSIONS

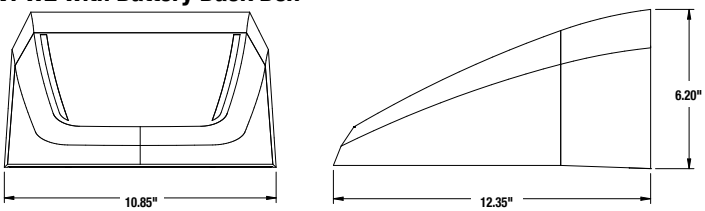
VPW1



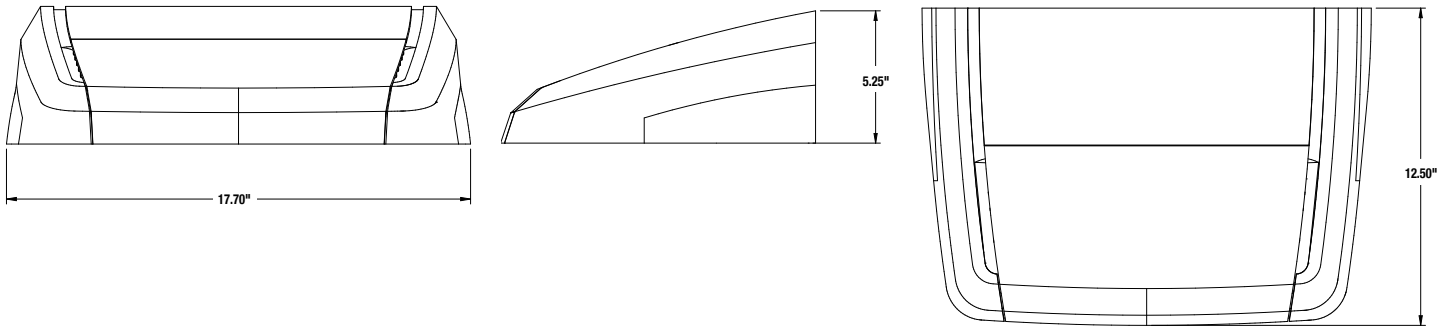
VPW2



VPW2 with Battery Back Box



VPW3



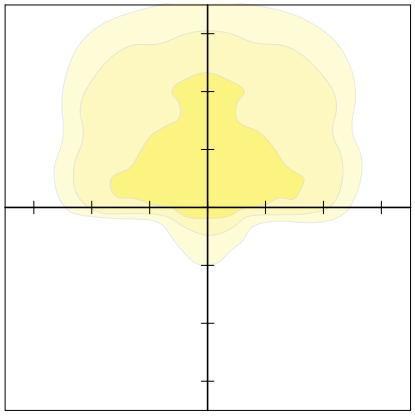
BATTERY OPTIONS & HOUSING SIZES

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

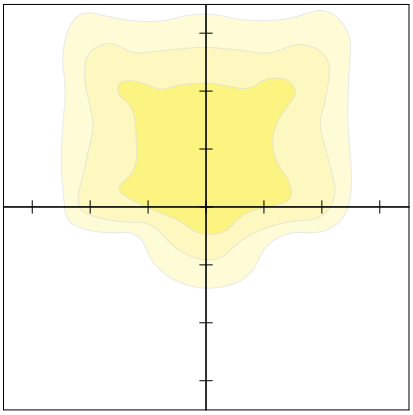
PHOTOMETRY - BATTERY

Mounting Height: 12ft
Scale: 10ft

18L BATTERY PHOTOMETRY



80L BATTERY PHOTOMETRY



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SSS-B Series Poles

SQUARE STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

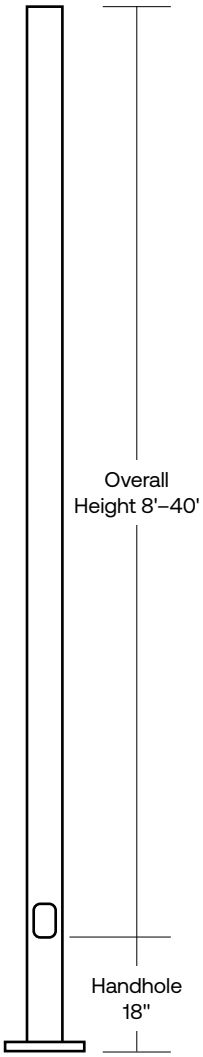
SPECIFICATIONS

CONSTRUCTION

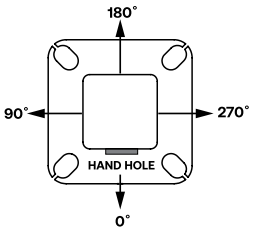
- Shaft: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- Base cover: Two-piece square aluminum base cover included standard
- Pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- Hand hole: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- Anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
  - Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
    1 x 36 x 4 — TAB-36-M38
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over “white metal” steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

INSTALLATION

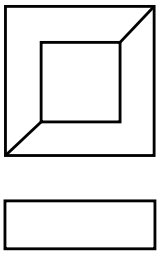
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location



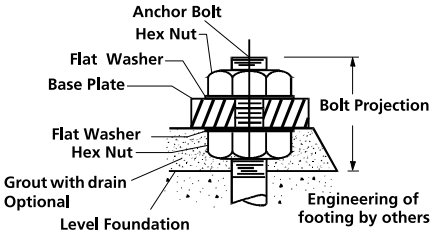
BASE



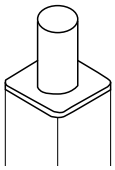
BASE COVER



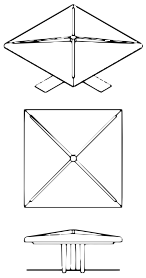
BASE DETAIL



TENON



POLE CAP



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SSS-B Series Poles

SQUARE STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING INFORMATION

Example: SSS-B–25–40–A–2L–S2–DBT–UL

SSS-B –

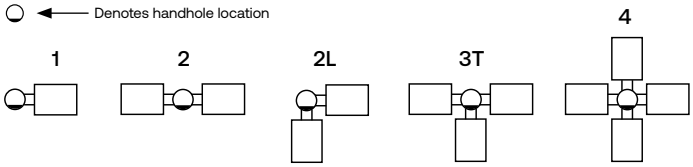
Series		Height	Shaft	Thickness	Mounting		Drill Pattern		Finish		Options	
SSS-B	Square Straight Steel Pole Beacon	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix	Reference page 3 Ordering matrix A - .125" Wall B - .188" Wall C - .250" Wall	1	Single arm mount	B1	Cruzer, "AM" arm	BLT	Black Matte Textured	GFI[3]	20 Amp GFCI Receptacle and Cover
					2	Two fixtures at 180°	B3	2 bolt (2-1/2" spacing), Viper "A" arm	BLS	Black Gloss Smooth	EHH[3]	Extra Handhole
					2L	Two fixtures at 90°	S2	2 bolt (3-1/2" spacing), Viper "AD" arm	DBT	Dark Bronze Matte Textured	C05[3]	.5" Coupling
					3T	Three fixtures at 90°	UDP	Universal Drill Pattern	DBS	Dark Bronze Gloss Smooth	C07[3]	.75" Coupling
					4	Four fixtures at 90°			GTT	Graphite Matte Textured	C20[3]	2" Coupling
					TA	Tenon (2.38" OD x 4" Tall)			LGT	Light Grey Matte Textured	MPB[3]	Mid-pole Luminaire Bracket
					TB	Tenon (2.88" OD x 4" Tall)			LGS	Light Grey Gloss Smooth	VM1[4]	Mode vibration dampener
					TC	Tenon (3.5" OD x 6" Tall)			PSS	Platinum Silver Smooth	VM2[5]	2nd mode vibration dampener
					TR[1]	Removable Tenon (2.375" x 4.25")			WHT	White Matte Textured	LAB	Less Anchor Bolts
					OT	Open Top (includes pole cap)			WHS	White Gloss Smooth	UL	UL Certified
									VGT	Verde Green Textured		
									Color Option			
									CC	Custom Color[2]		

Accessories (Order Separately)

- ☐ **VM2S08** Field-installed 2nd mode vibration dampener - 8 ft
- ☐ **VM2S12** Field-installed 2nd mode vibration dampener - 12 ft
- ☐ **VM2S16** Field-installed 2nd mode vibration dampener - 16 ft
- ☐ **VM2S20** Field-installed 2nd mode vibration dampener - 20 ft
- ☐ **VM2S25** Field-installed 2nd mode vibration dampener - 25 ft

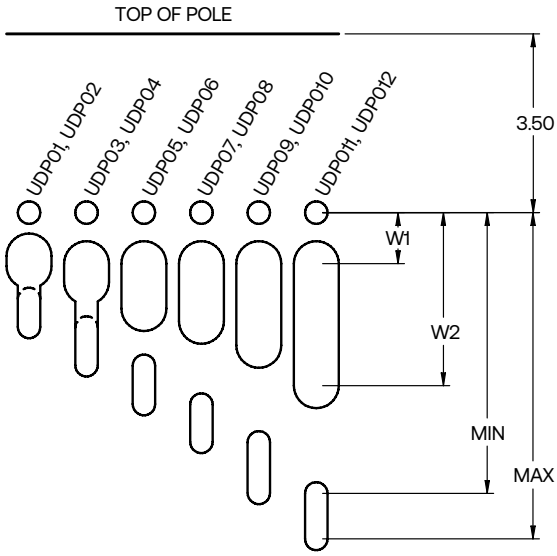
1. Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSS-B-25-40-A-1-B1-TR-BBTT.
2. Custom colors available; RAL number preferable
3. Specify option location using logic found on page 3 (Option Orientation).
4. VM1 recommended on poles 20' and taller with EPA of less than 1.
5. There will be a weld witness mark on the side of the pole with the Factory installed VM2

MOUNTING ORIENTATION



DRILL PATTERNS

UNIVERSAL DRILL PATTERN (UDP)



Two Bolt Mounting with Center Wireway						
Mounting Hardware	Universal Mounting Patterns					
⅜" or less	UDP01	UDP03	UDP05	UDP07	UDP09	UDP011
7⁄16" to ½"	UDP02	UDP04	UDP06	UDP08	UDP010	UDP012
"Min" Attachment Dimension	1.69	2.25	3.00	3.76	4.50	5.50
"Max" Attachment Dimension	2.24	2.99	3.75	4.49	5.49	6.00
W1 (Wireway min)	0.85	1.00	1.00	1.00	1.00	1.00
W2 (Wireway max)	1.05	1.36	1.88	2.13	2.60	3.00

SSS-B Series Poles

SQUARE STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

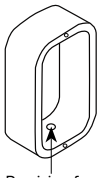
ORDERING INFORMATION (CONTINUED)

CATALOG NUMBER	HEIGHT		NOMINAL SHAFT DIMENSIONS	WALL THICKNESS	BOLT CIRCLE (SUGGESTED)	BOLT CIRCLE (RANGE)	BASE PLATE SQUARE	ANCHOR BOLT SIZE	BOLT PROJECTION	POLE WEIGHT (LBS)
	FEET	METERS								
SSS-B-10-40-A-XX-XX	10	3.0	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	77
SSS-B-12-40-A-XX-XX	12	3.7	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	90
SSS-B-14-40-A-XX-XX	14	4.3	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	103
SSS-B-16-40-A-XX-XX	16	4.9	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	116
SSS-B-18-40-A-XX-XX	18	5.5	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	129
SSS-B-20-40-A-XX-XX	20	6.1	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	142
SSS-B-25-40-A-XX-XX	25	7.6	4" square	0.125"	9"	8" - 10"	9"	3/4" x 30" x 3"	3.5	175
SSS-B-14-40-B-XX-XX	14	4.3	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	152
SSS-B-16-40-B-XX-XX	16	4.9	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	171
SSS-B-18-40-B-XX-XX	18	5.5	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	190
SSS-B-20-40-B-XX-XX	20	6.1	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	209
SSS-B-25-40-B-XX-XX	25	7.6	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	257
SSS-B-30-40-B-XX-XX	30	9.1	4" square	.188"	11"	10" - 12"	10.50"	3/4" x 30" x 3"	3.5	304
SSS-B-16-50-B-XX-XX	16	4.9	5" square	.188"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	219
SSS-B-18-50-B-XX-XX	18	5.5	5" square	.188"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	243
SSS-B-20-50-B-XX-XX	20	6.1	5" square	.188"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	267
SSS-B-25-50-B-XX-XX	25	7.6	5" square	.188"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	327
SSS-B-30-50-B-XX-XX	30	9.1	5" square	.188"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	387
SSS-B-25-50-C-XX-XX	25	7.6	5" square	.25"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	427
SSS-B-30-50-C-XX-XX	30	9.1	5" square	.25"	11"	10.25" - 13.25"	11.50"	1" x 36" x 4"	4.5	507
SSS-B-20-60-B-XX-XX	20	6.1	6" square	.188"	12"	11.00" - 13.25"	12.25"	1" x 36" x 4"	4.5	329
SSS-B-25-60-B-XX-XX	25	7.6	6" square	.188"	12"	11.00" - 13.25"	12.25"	1" x 36" x 4"	4.5	404
SSS-B-30-60-B-XX-XX	30	9.1	6" square	.188"	12"	11.00" - 13.25"	12.25"	1" x 36" x 4"	4.5	479
SSS-B-35-60-B-XX-XX	35	10.7	6" square	.188"	12"	11.00" - 13.25"	12.25"	1" x 36" x 4"	4.5	554
SSS-B-40-60-B-XX-XX	40	12.2	6" square	.188"	12"	11.00" - 13.25"	12.25"	1" x 36" x 4"	4.5	629

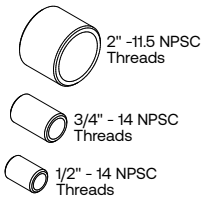
Notes:
- Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.
- For more information about pole vibration and vibration dampeners, please consult factory.
- Unwrap poles immediately upon receipt to avoid condensation build up and possible corrosion.

[1] There will be a weld witness mark on the side of the pole with the Factory installed VM2.

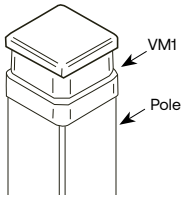
EHH
Extra handhole



C05 / C07 / C20
Coupling



VM1
1st mode vibration dampener



Field Installed Pole Top dampener designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2[1]
2nd mode vibration dampener

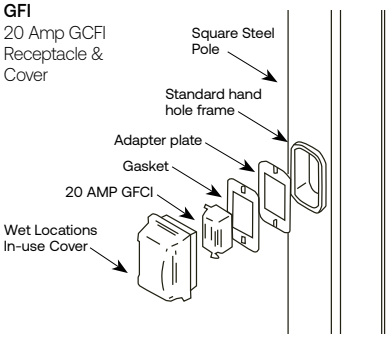
Factory installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX
Field-installed 2nd mode vibration dampener

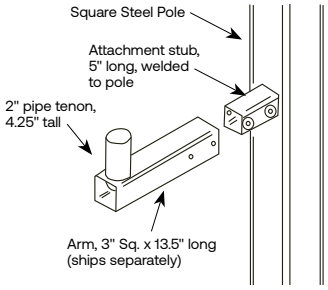
VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

Field installed, internal dampener designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI
20 Amp GCFI Receptacle & Cover



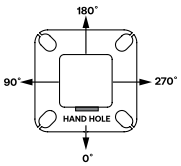
MPB
Mid Pole Bracket

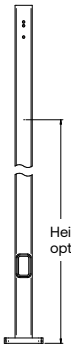


Option Orientation

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet).

Example: Option C05 should be ordered as: SSS-B-20-40-A-TA-DBT-CO5-0-15 (.5" coupling on the handhole/arm side of pole, 15' up from the pole base) 1' spacing required between option. Consult factory for other configurations.





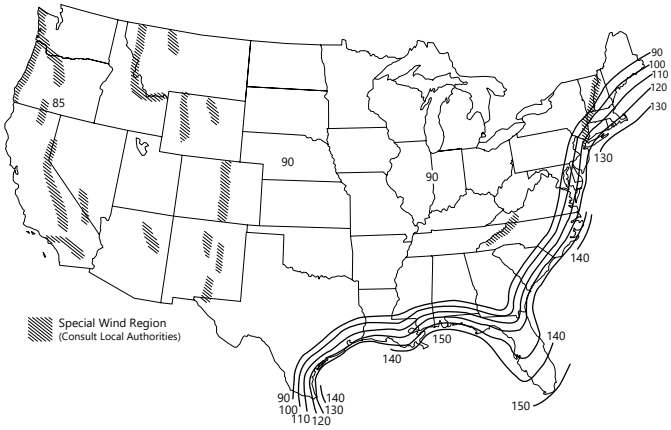
SSS-B Series Poles

SQUARE STRAIGHT STEEL

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

WIND MAPS

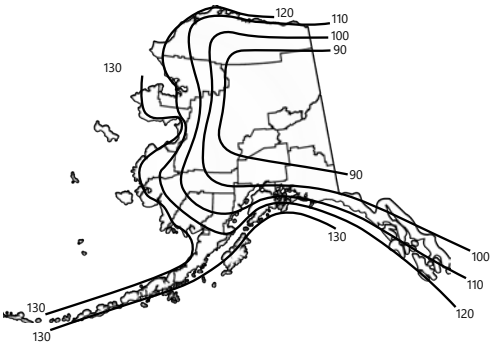
ASCE7-05 WIND MAP



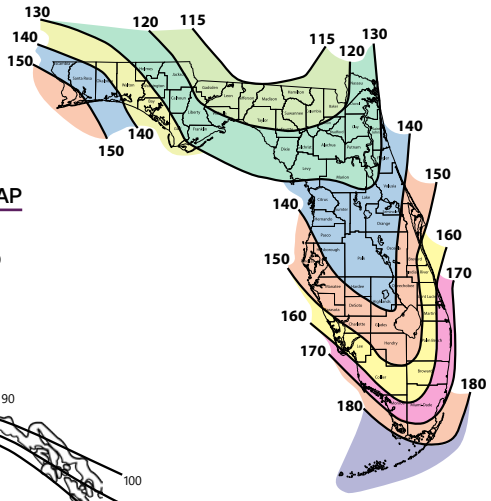
HAWAII – 105 mph
PUERTO RICO – 145 mph

*Printed with permission from ASCE

ALASKA REGION WIND MAP



FLORIDA REGION WIND MAP



Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code.

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSS-B-10-40-A	25.0	25.0	25.0	22.8	20.6	17.0	14.2	11.9	11.0	10.1
SSS-B-12-40-A	25.0	25.0	20.0	18.0	16.1	13.2	10.8	8.9	8.1	7.4
SSS-B-14-40-A	23.1	20.4	16.1	14.3	12.8	10.2	8.2	6.6	5.9	5.3
SSS-B-16-40-A	19.0	16.7	13.0	11.5	10.1	7.9	6.2	4.7	4.1	3.6
SSS-B-18-40-A	15.6	13.6	10.0	9.0	7.8	5.9	4.4	3.1	2.6	2.1
SSS-B-20-40-A	12.7	10.9	7.9	6.9	5.9	4.2	2.8	1.7	1.3	0.9
SSS-B-25-40-A	7.3	5.9	3.8	2.9	2.1	0.8	NR	NR	NR	NR
SSS-B-14-40-B	25.0	25.0	23.3	20.8	18.6	15.1	12.3	10.2	9.2	8.4
SSS-B-16-40-B	25.0	24.9	19.4	17.3	15.4	12.3	9.9	8.0	7.2	6.4
SSS-B-18-40-B	24.0	20.8	16.1	14.2	12.5	9.8	7.7	6.1	5.3	4.7
SSS-B-20-40-B	20.2	17.5	13.2	11.6	10.1	7.7	5.9	4.4	3.8	3.2
SSS-B-25-40-B	12.8	11.0	7.9	6.7	5.5	3.7	2.3	1.2	0.7	NR
SSS-B-30-40-B	8.0	6.6	4.1	3.1	2.2	0.8	NR	NR	NR	NR
SSS-B-16-50-B	25.0	25.0	25.0	25.0	24.8	20.1	16.5	13.6	12.3	11.2
SSS-B-18-50-B	25.0	25.0	25.0	22.9	20.4	16.4	13.2	10.7	9.6	8.6
SSS-B-20-50-B	25.0	25.0	21.3	18.9	16.7	13.2	10.4	8.1	7.2	6.3
SSS-B-25-50-B	20.7	17.8	13.3	11.5	9.8	7.2	5.0	3.3	2.6	1.9
SSS-B-30-50-B	13.5	11.3	7.7	6.2	4.9	2.8	1.1	NR	NR	NR
SSS-B-25-50-C	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
SSS-B-30-50-C	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4
SSS-B-20-60-B	25.0	25.0	25.0	25.0	25.0	20.2	16.1	12.9	11.5	10.3
SSS-B-25-60-B	25.0	25.0	20.6	18.0	15.6	11.8	8.7	6.2	5.2	4.2
SSS-B-30-60-B	21.4	18.1	12.9	10.7	8.8	5.7	3.3	1.3	NR	NR
SSS-B-35-60-B	14.0	11.3	6.9	5.2	3.6	1.0	NR	NR	NR	NR
SSS-B-40-60-B	8.1	5.8	2.2	nr	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)								
Catalog Number	115	120	130	140	150	160	170	180
SSS-B-10-40-A	25.0	25.0	25.0	25.0	21.4	18.4	15.9	13.9
SSS-B-12-40-A	25.0	25.0	23.6	19.8	16.7	14.2	12.1	10.4
SSS-B-14-40-A	25.0	23.1	19.0	15.7	13.1	10.9	9.1	7.6
SSS-B-16-40-A	20.8	18.7	15.2	12.3	10.1	8.2	6.7	5.4
SSS-B-18-40-A	16.8	15.0	11.9	9.4	7.5	5.9	4.5	3.4
SSS-B-20-40-A	13.6	11.9	9.2	7.1	5.3	3.9	2.7	1.7
SSS-B-25-40-A	7.4	6.2	4.1	2.5	1.1	NR	NR	NR
SSS-B-14-40-B	25.0	23.6	19.4	16.1	13.4	11.2	9.4	7.8
SSS-B-16-40-B	21.4	19.2	15.6	12.7	10.4	8.5	6.9	5.6
SSS-B-18-40-B	17.2	15.4	12.2	9.7	7.7	6.1	4.7	3.6
SSS-B-20-40-B	13.9	12.3	9.5	7.3	5.5	4.1	2.9	1.9
SSS-B-25-40-B	7.7	6.4	4.3	2.6	1.3	NR	NR	NR
SSS-B-30-40-B	3.2	2.1	NR	NR	NR	NR	NR	NR
SSS-B-16-50-B	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.5
SSS-B-18-50-B	25.0	25.0	25.0	24.4	20.4	17.0	14.2	11.9
SSS-B-20-50-B	25.0	25.0	24.4	19.9	1 6.3	13.4	11.0	8.9
SSS-B-25-50-B	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-B-30-50-B	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-B-25-50-C	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-B-30-50-C	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-B-20-60-B	25.0	25.0	25.0	21.9	17.8	14.5	11.7	9.4
SSS-B-25-60-B	23.8	20.9	16.1	12.3	9.2	6.6	4.5	2.8
SSS-B-30-60-B	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-B-35-60-B	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-B-40-60-B	1.8	NR	NR	NR	NR	NR	NR	NR

NOTES

Wind-speed Website disclaimer:
Current has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third party website provides a useful starting point for analyzing wind conditions, Current has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Current does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. http://windspeed.atcouncil.org

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Current Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations.
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

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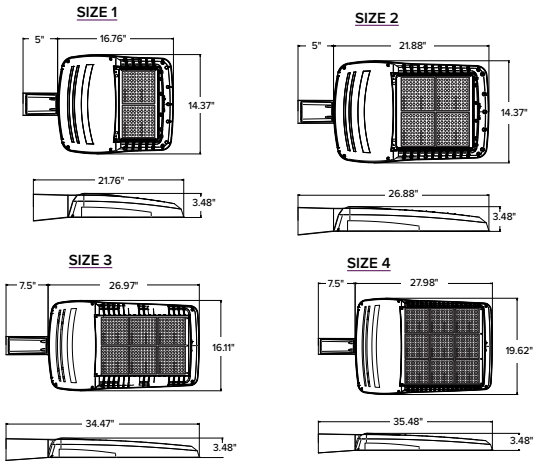
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VIPER Area/Site

VIPER LUMINAIRE

MICRO STRIKE | OPTICS STRIKE



FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 DLC LISTED DLC LISTED PREMIUM DARKSKY APPROVED Reduces light pollution BAA TAA

CONTROL TECHNOLOGY

NX CONNECT NX WIRED NX WIRELESS LIGHTGRID

SERVICE PROGRAMS

STOCK QS10

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included
- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- 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 cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V Dimming Drivers are standard.
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- LightGRID+ available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to http://www.designlights.org for the most up-to-date list.
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- 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://www.currentlighting.com/resources/america-solutions).
- FCC CFR Title 47 Part 15, Class A

WARRANTY

- 5 year warranty

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Gray Shading = Service Program Limit of 15 luminaires

QS10

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP –

Series	
VP	Viper Area

–

Optic Platform	
BLANK	Micro Strike

–

Size	
1	Size 1
2	Size 2
3	Size 3
4	Size 4

–

Light Engine	
160L-35 [6]	35W - 5,500 Lumens
160L-50 [6]	50W - 7,500 Lumens
160L-75	75W - 10,000 Lumens
160L-100	100W - 12,500 Lumens
160L-115	115W - 15,000 Lumens
160L-135	135W - 18,000 Lumens
160L-160	160W - 21,000 Lumens
320L-145	145W - 21,000 Lumens
320L-170	170W - 24,000 Lumens
320L-185	185W - 27,000 Lumens
320L-210	210W - 30,000 Lumens
320L-235	235W - 33,000 Lumens
320L-255	255W - 36,000 Lumens
320L-315 [6]	315W - 40,000 Lumens
480L-285	285W - 40,000 Lumens
480L-320	320W - 44,000 Lumens
480L-340	340W - 48,000 Lumens
480L-390	390W - 52,000 Lumens
480L-425	425W - 55,000 Lumens
480L-470	470W - 60,000 Lumens
720L-435	435W - 60,000 Lumens
720L-475	475W - 65,000 Lumens
720L-515	515W - 70,000 Lumens
720L-565 [6]	565W - 75,000 Lumens
720L-600 [6]	600W - 80,000 Lumens
CLO	Custom Lumen Output [1]

–

CCT/CRI	
AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

–

Distribution	
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

–

Optic Rotation	
BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

–

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

–

Mounting	
A	Arm mount for square pole/flat surface (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

–

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

–

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block
LS	Lumen Switch

–

Network Control Options	
NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	LightGRID+ In-Fixture Module [3,4]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [3,4]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]
Programmed Controls	
SCP-_F	Sensor Control Programmable, 8F or 40F [9]
ADD	AutoDim Timer Based Dimming [10]
ADT	AutoDim Time of Day Dimming [10]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions
9 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
10 - Please refer to page 8 for AutoDim ordering guide

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

STRIKE OPTIC – ORDERING GUIDE

Example: VP–ST–1–36L-39–3K7–2–UNV–A–BLT

CATALOG #

VP –

Series

VP	Viper Area

Optic Platform

ST	Strike Optics

Size

1	Size 1
2	Size 2
3	Size 3
4	Size 4

Light Engine

36L-39 [8]	39W - 5,500 Lumens
36L-55 [8]	55W - 7,500 Lumens
36L-85	85W - 10,000 Lumens
36L-105	105W - 12,500 Lumens
36L-120	120W - 15,000 Lumens
72L-115	115W - 15,000 Lumens
72L-145	145W - 18,000 Lumens
72L-180	180W - 21,000 Lumens
72L-210	210W - 24,000 Lumens
72L-240	240W - 27,000 Lumens
108L-215 [8]	215W - 27,000 Lumens
108L-250	250W - 30,000 Lumens
108L-280	280W - 33,000 Lumens
108L-325	325W - 36,000 Lumens
108L-365	365W - 40,000 Lumens
162L-320	320W - 40,000 Lumens
162L-365 [10]	365W - 44,000 Lumens
162L-405	405W - 48,000 Lumens
162L-445	445W - 52,000 Lumens
162L-485	485W - 55,000 Lumens
162L-545 [8]	545W - 60,000 Lumens
CLO	Custom Lumen Output [1]

CCT/CRI

27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
3K9	3000K, 90 CRI
35K8	3500K, 80 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

Distribution

FR	Auto Front Row
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QN	Type 5 Square Narrow
5QW	Type 5 Square Wide
5QM	Type 5 Square Medium
5W	Type 5 Wide (Round)
5RW	Type 5 Rectangular
C	Corner Optic
TC	Tennis Court Optic

Optic Rotation

BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

Voltage

UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

Mounting

A	Arm mount for square pole/flat surface
A_	Arm mount for round pole [3]
ASQU	Universal arm mount for square pole
A_U	Universal arm mount for round pole [3]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [3]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [3]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

Color

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

Options

F	Fusing
E	Battery Backup [1,2,7,8,9]
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control
TB	Terminal Block
LS	Lumen Switch

Network Control Options

NXWS-16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
NXWF-40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,4,5]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [4,5]
WIR	LightGRID+ In-Fixture Module [4,5]
WIRSC-14F	LightGRID+ Module and Occupancy Sensor 14ft Mounting height [4,5]
WIRSC-40F	LightGRID+ Module and Occupancy Sensor 40ft Mounting height [4,5]

Stand Alone Sensors

BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming® Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
7PR-TL	7-Pin PCR with NEMA photocontrol [4]
3PR	3-Pin Receptacle [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with NEMA photocontrol [4]

Programmed Controls

SCP-_F	Sensor Control Programmable, 8F or 40F [11]
ADD	AutoDim Timer Based Dimming [12]
ADT	AutoDim Time of Day Dimming [12]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Battery temperature rating -20C to 55C
3 – Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
4 – Networked Controls cannot be combined with other control options
5 – Not available with 2PF option
6 – Not available with 480V
7 – Not available with 347 or 480V
8 – Not available with Dual Driver option
9 – Only available in Size 1 housing, up to 105 Watts
10 – Some voltage restrictions may apply when combined with controls
11 – At least one SCPREMOTE required to program SCP motion sensor. Must select 8ft or 40ft.
12 - Please refer to page 8 for AutoDim ordering guide

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

ORDERING GUIDE (CONT'D)

CATALOG #

Accessory Type		Size		Option	
SHD	Shield	**1**	Size 1	**HSS-90-B**	House Side Shield 90º Back
		2	Size 2	**HSS-90-F**	House Side Shield 90º Front
		3	Size 3	**HSS-90-S**	House Side Shield 90º Side
		4	Size 4	**HSS-270-BSS**	House Side Shield 270º Back/Side/Side
				HSS-270-FSS	House Side Shield 270º Front/Side/Side
				HSS-270-FSB	House Side Shield 270º Front/Side/Back
				HSS-360	House Side Shield 360º
				BC	Back Light Control
MTG	Mounting			**A**	Arm Mount for square pole/flat surface
				ASQU	Universal Arm Mount for square pole
				AAU	Adjustable Arm for pole mounting
				ADU	Decorative upswept Arm
				RPA	Round Pole Adapter
				MAF	Mast Arm Fitter for 2-3/8" OD horizontal arm
				K	Knuckle
				T	Trunnion
				WB	Wall Bracket (compatible with universal arm mounts)

Accessory Type		Option	
MSC	Miscellaneous	**BIRD SPK**	Bird Spike

Color	
BLS	Black Gloss Smooth
BLT	Black Matte Textured
DBS	Dark Bronze Gloss Smooth
DBT	Dark Bronze Matte Textured
GTT	Graphite Matte Textured
LGS	Light Gray Gloss Smooth
PSS	Platinum Silver Smooth
WHS	White Gloss Smooth
WHT	White Matte Textured
VGT	Green Landscape Decorative
LEG	Legacy Colors
Color Option	
CC	Custom Color

Current Control Solutions — Accessories (Sold Separately)

NX Lighting Controls

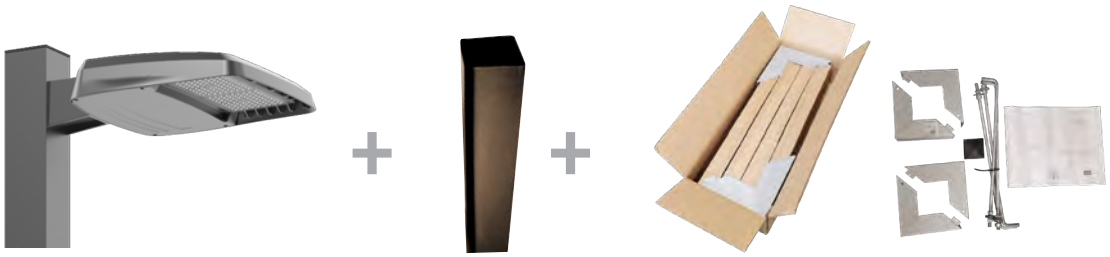
- ☐ **NXOFM-1R1D-UNV** — On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with NX Radio and Bluetooth® Radio, 120–480VAC

LightGRID+ Lighting Control

- ☐ **WIR-RME-L** — On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with LightGRID+ Radio, 110–480VAC
- ☐ **SCP-REMOTE** — Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor

For additional information related to these accessories please visit currentlighting.com/beacon. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

VIPER POLE EXPRESS COMBO – ORDERING GUIDE



Catalog Number	Pole	Single or Double Head	Fixture	Lumens*	Wattage	Distribution	CCT/CRI	Mounting	Finish
VP-1-160-4K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-3-LS**	19584	158W	Type 3	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-4K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-4K-4F-LS**	19426	158W	Type 4F	4000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20	**20' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S20-2X	**20' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-3-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-3-LS**	19499	158W	Type 3	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25	**25' Square Straight Steel**	Single	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured
VP-1-160-5K-4F-LS-S25-2X	**25' Square Straight Steel**	Double	**VP-1-160-5K-4F-LS**	19186	158W	Type 4F	5000K/70CRI	Universal Arm	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – STOCK LUMINAIRE SKUS

Catalog Number	Lumens	LPW	Distribution	Wattage	CCT/CRI	Voltage	Mounting	Finish
VP-1-160-4K-3-LS	19584	123.9	3	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-4K-4F-LS	19426	122.9	4F	158W	4000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-3-LS	19499	123.4	3	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured
VP-1-160-5K-4F-LS	19186	121.4	4F	158W	5000K/70CRI	120-277V	Universal Arm with RPA (A3U)	Dark Bronze Textured

VIPER POLE EXPRESS COMBO – ACCESSORIES

Catalog Number	Description
VM14DB	Vibration Dampener, mounts to top of pole for reduced vibration

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

OUTDOOR LIGHTING CONTROLS OPTIONS

CONTROLS FUNCTIONALITY

LIGHTGRID+

	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	NXOFM1R1D-UNV	NX 7-Pin Twist-Lock® with NX Networked Wireless Radio, Integral Automatic Dimming Photocell, Integral Single Pole Relay with Dimming, and Bluetooth Programming	✓	✓	✓	Paired with external control	✓	✓	✓	✓	–		NXOFM-1R1D-UV
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓	–		NXRM2-H
NX Wireless	NXWS12F	NX Networked Wireless Enabled Integral NXSMP2-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	12ft		NXSMP2-OMNI-O
NX Wireless	NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	16ft		NXSMP2-LMO
NX Wireless	NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming	✓	✓	✓	✓	✓	✓	✓	✓	40ft		NXSMP2-HMO
LightGRID+	WIR	LightGRID+ In-Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR
LightGRID+	WIR-RME-L	LightGRID+ On Fixture Module	✓	–	✓	–	–	✓	✓	Gateway	–		WIR-RME-L
LightGRID+	WIRSC	LightGRID+ Module and Occupancy Sensor	✓	✓	✓	✓	✓	✓	✓	Gateway	14ft - 40ft		BTMSP
Independent	BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	12ft		BTSMP-OMNI-O
Independent	BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	14ft		BTSMP-LMO
Independent	BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens	–	–	–	✓	✓	✓	✓	✓	40ft		BTSMP-HMO

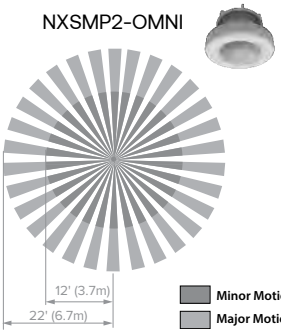
DEFAULT SETTINGS

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

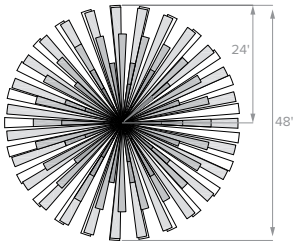
Stand Alone	**Occupancy Sensor**	Enabled
Stand Alone	**Occupancy Sensor Sensitivity**	7
Stand Alone	**Occupancy Sensor Timeout**	8 Minutes
Stand Alone	**Occupied Dim Level**	100%
Stand Alone	**Unoccupied Dim Level**	50%
Stand Alone	**Daylight Sensor**	Disabled

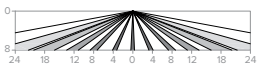
NX WIRELESS COVERAGE PATTERNS

NXSMP2-OMNI



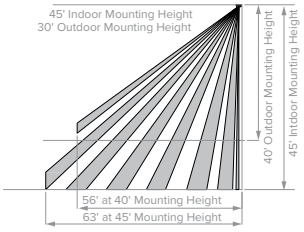
NXSMP2-LMO





Sensor Lens Coverage and Detection Patterns When Mounted at 8ft with Low Mount Lens

NXSMP2-HMO



Sensor Lens Coverage and Detection Patterns When Mounted at 40ft and 45ft with Standard Lens

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VIPER Area/Site

VIPER LUMINAIRE

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

NX LIGHTING CONTROLS FREE APP

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 luminiares 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

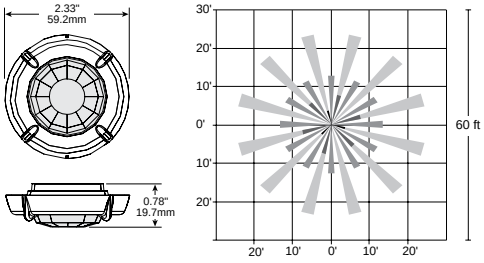
CONTROLS TECH SUPPORT 800-888-8006 (7:00 AM - 7:00 PM)

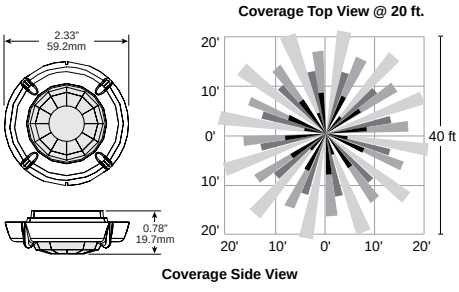
OUTDOOR LIGHTING CONTROLS OPTIONS

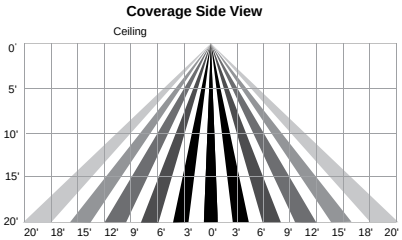
CONTROLS FUNCTIONALITY

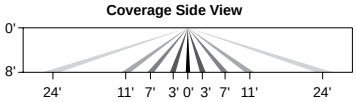
	Control Option Ordering Logic & Description		Control Option Functionality									Control Option Components
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming	Sensor Height	
Independent	SCP_F	Sensor Control Programmable, 8F or 40F	–	–	–	✓	✓	✓	✓	–	8ft or 40ft	SCP_F
Independent	ADD	AutoDIM Timer Based Dimming	–	–	✓	–	–	–	✓	–	–	ADD
Independent	ADT	AutoDIM Time of Day Dimming	–	–	✓	–	–	–	✓	–	–	ADT
Independent	7PR	7-Pin Receptacle	–	–	Paired with external control	–	Paired with external control	–	Paired with external control	–	–	7PR
Independent	7PR-SC	7-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–	7PR-SC
Independent	3PR	3-Pin twist lock	–	–	–	–	–	–	Paired with external control	–	–	3PR
Independent	3PR-SC	3-Pin Receptacle with shorting cap	–	–	–	–	–	–	–	–	–	3PR-SC
Independent	3PR-TL	3-Pin with photocontrol	–	–	–	–	✓	–	✓	–	–	3PR-TL

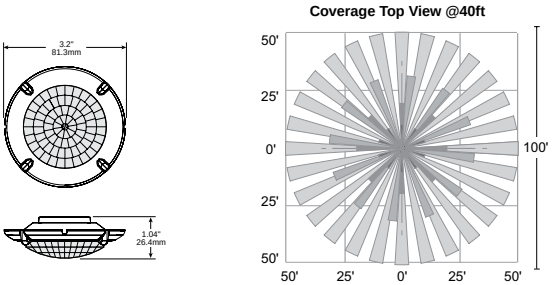
COVERAGE PATTERNS FOR SCP_F

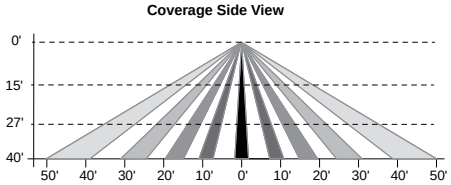












VIPER Area/Site

VIPER LUMINAIRE

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6 - Delay 6 hours
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50% brightness
Auto-Dim Return	Delay 0-9 Hours	R6 - Return to full output after 6 hours

ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6 - Dim at 6PM
Auto-Dim Brightness	10-100% Brightness	5 - Dim to 50%
Auto-Dim Return	12-6 AM and 9-11P	R6 - Return to full output at 6AM

ORDERING GUIDE

Auto Dim Code	Timer Base (ADD) Auto-Dim Options		Auto Dim Cod	Time of Day (ADT) Auto-Dim Options
D1	Delay 1 hour		T0	Delay Midnight
D2	Delay 2 hours		T1	Delay 1 AM
D3	Delay 3 hours		T2	Delay 2 AM
D4	Delay 4 hours		T3	Delay 3 AM
D5	Delay 5 hours	OR	T4	Delay 10 PM
D6	Delay 6 hours		T5	Delay 11 PM
D7	Delay 7 hours		T6	Delay 6 PM
D8	Delay 8 hours		T7	Delay 7 PM
D9	Delay 9 hours		T8	Delay 8 PM
D0	Delay 0 hours		T9	Delay 9 PM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

Code	Auto-Dim Return Options
R1	Delay 1 hour or 1 AM
R2	Delay 2 hours or 2 AM
R3	Delay 3 hours or 3 AM
R4	Delay 4 hours or 4 AM
R5	Delay 5 hours or 5 AM
R6	Delay 6 hours or 6 AM
R7	Delay 7 hours or 7 AM
R8	Delay 8 hours or 8 AM
R9	Delay 9 hours or 9 AM
R0	Delay 0 hours or 12 AM

Code	Auto-Dim Brightness
0	100% Brightness
1	10% Brightness
2	20% Brightness
3	30% Brightness
4	40% Brightness
5	50% Brightness
6	60% Brightness
7	70% Brightness
8	80% Brightness
9	90% Brightness

DELIVERED LUMENS

For delivered lumens, please see Lumens Data PDF on www.Currentlighting.com

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	0	25,000	*TM-21-11 36,000	50,000	100,000	Calculated L_{70} (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

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

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
AP-Amber Phosphor Converted 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		

VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: MICRO STRIKE

# OF LEDS	160						
NOMINAL WATTAGE	35	50	75	100	115	135	160
SYSTEM POWER (W)	34.9	50.5	72.1	97.2	111.9	132.2	157.8
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	0.29	0.42	0.63	0.83	0.96	1.13	1.33
208	0.17	0.24	0.36	0.48	0.55	0.65	0.77
240	0.15	0.21	0.31	0.42	0.48	0.56	0.67
277	0.13	0.18	0.27	0.36	0.42	0.49	0.58
347	0.10	0.14	0.22	0.29	0.33	0.39	0.46
480	0.07	0.10	0.16	0.21	0.24	0.28	0.33

# OF LEDS	320						
NOMINAL WATTAGE	145	170	185	210	235	255	315
SYSTEM POWER (W)	150	166.8	185.7	216.2	240.9	261.5	312
INPUT VOLTAGE (V)	CURRENT (Amps)						
120	1.21	1.42	1.54	1.75	1.96	2.13	2.63
208	0.70	0.82	0.89	1.01	1.13	1.23	1.51
240	0.60	0.71	0.77	0.88	0.98	1.06	1.31
277	0.52	0.61	0.67	0.76	0.85	0.92	1.14
347	0.42	0.49	0.53	0.61	0.68	0.73	0.91
480	0.30	0.35	0.39	0.44	0.49	0.53	0.66

# OF LEDS	480					
NOMINAL WATTAGE	285	320	340	390	425	470
SYSTEM POWER (W)	286.2	316.7	338.4	392.2	423.2	468
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.38	2.67	2.83	3.25	3.54	3.92
208	1.37	1.54	1.63	1.88	2.04	2.26
240	1.19	1.33	1.42	1.63	1.77	1.96
277	1.03	1.16	1.23	1.41	1.53	1.70
347	0.82	0.92	0.98	1.12	1.22	1.35
480	0.59	0.67	0.71	0.81	0.89	0.98

# OF LEDS	720				
NOMINAL WATTAGE	435	475	515	565	600
SYSTEM POWER (W)	429.3	475	519.1	565.2	599.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	3.63	3.96	4.29	4.71	5.00
208	2.09	2.28	2.48	2.72	2.88
240	1.81	1.98	2.15	2.35	2.50
277	1.57	1.71	1.86	2.04	2.17
347	1.25	1.37	1.48	1.63	1.73
480	0.91	0.99	1.07	1.18	1.25

VIPER Area/Site

VIPER LUMINAIRE

ELECTRICAL DATA: STRIKE

# OF LEDS	36				
NOMINAL WATTAGE	39	55	85	105	120
SYSTEM POWER (W)	39.6	56.8	83.6	108.2	120.9
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	0.33	0.46	0.71	0.88	0.96
208	0.19	0.26	0.41	0.50	0.55
240	0.16	0.23	0.35	0.44	0.48
277	0.14	0.20	0.31	0.38	0.42
347	0.11	0.16	0.24	0.30	0.33
480	0.08	0.11	0.18	0.22	0.24

# OF LEDS	72				
NOMINAL WATTAGE	115	145	180	210	240
SYSTEM POWER (W)	113.7	143.2	179.4	210.2	241.7
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	1.00	1.21	1.50	1.75	1.79
208	0.58	0.70	0.87	1.01	1.03
240	0.50	0.60	0.75	0.88	0.90
277	0.43	0.52	0.65	0.76	0.78
347	0.35	0.42	0.52	0.61	0.62
480	0.25	0.30	0.38	0.44	0.45

# OF LEDS	108				
NOMINAL WATTAGE	215	250	280	325	365
SYSTEM POWER (W)	214.8	250.8	278.3	324.7	362.6
INPUT VOLTAGE (V)	CURRENT (Amps)				
120	2.00	2.08	2.33	3.04	2.67
208	1.15	1.20	1.35	1.75	1.54
240	1.00	1.04	1.17	1.52	1.33
277	0.87	0.90	1.01	1.32	1.16
347	0.69	0.72	0.81	1.05	0.92
480	0.50	0.52	0.58	0.76	0.67

# OF LEDS	162					
NOMINAL WATTAGE	320	365	405	445	485	545
SYSTEM POWER (W)	322.1	362.6	403.6	445.1	487.1	543.9
INPUT VOLTAGE (V)	CURRENT (Amps)					
120	2.71	2.67	3.38	3.71	4.04	4.54
208	1.56	1.54	1.95	2.14	2.33	2.62
240	1.35	1.33	1.69	1.85	2.02	2.27
277	1.17	1.16	1.46	1.61	1.75	1.97
347	0.94	0.92	1.17	1.28	1.40	1.57
480	0.68	0.67	0.84	0.93	1.01	1.14

VIPER Area/Site

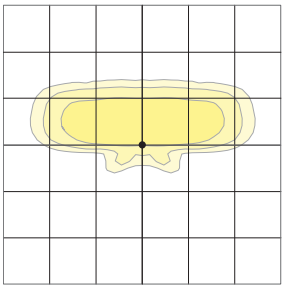
VIPER LUMINAIRE

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

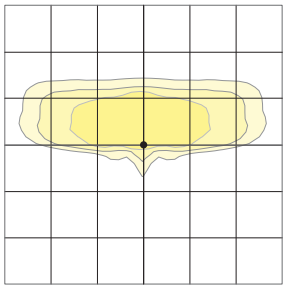
MICRO STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

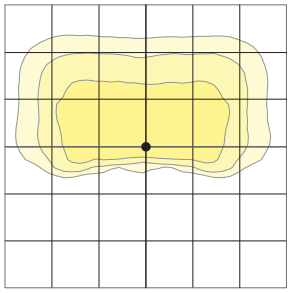
Type 2



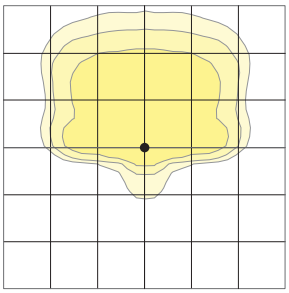
Type 3



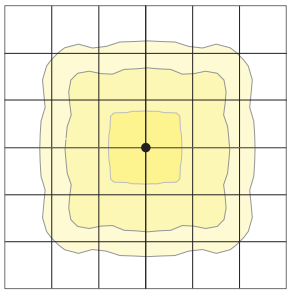
Type 4 Wide



Type 4F



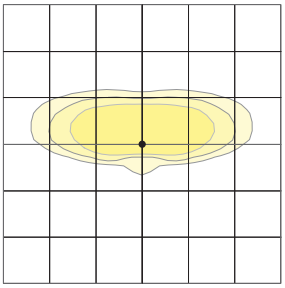
Type 5QW



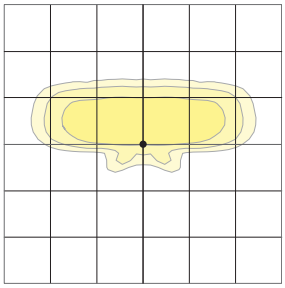
OPTIC STRIKE PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see website photometric test reports.

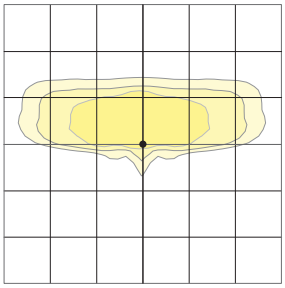
Type FR – Front Row/Auto Optic



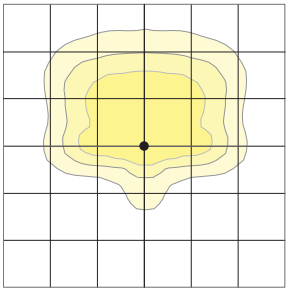
Type 2



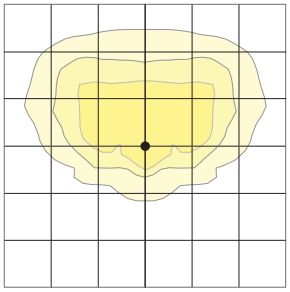
Type 3



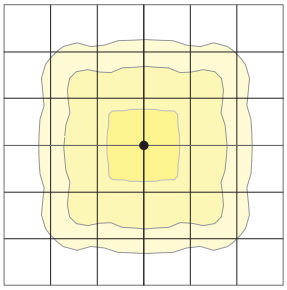
Type 4 Forward



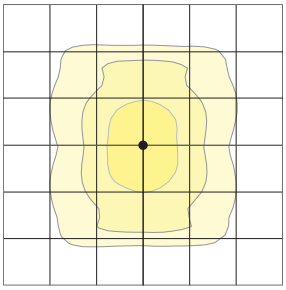
Type 4 Wide



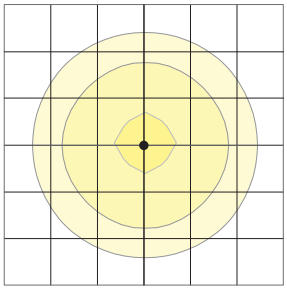
Type 5QM



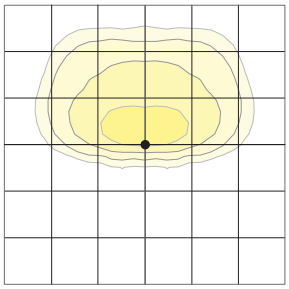
Type 5RW (rectangular)



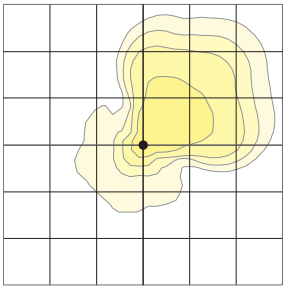
Type 5W (round wide)



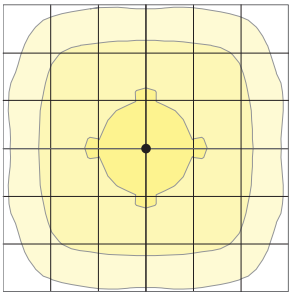
Type TC



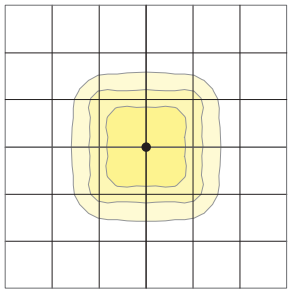
Type Corner



Type 5QW



Type 5QN



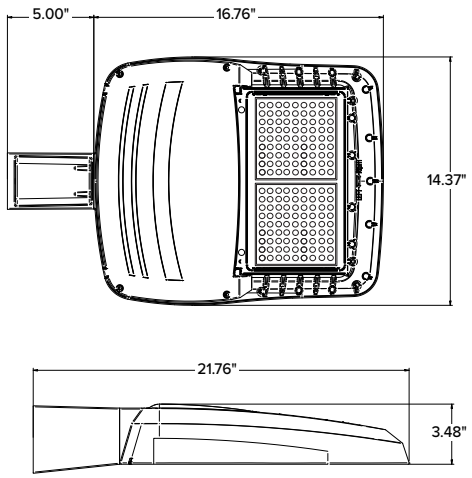
VIPER Area/Site

VIPER LUMINAIRE

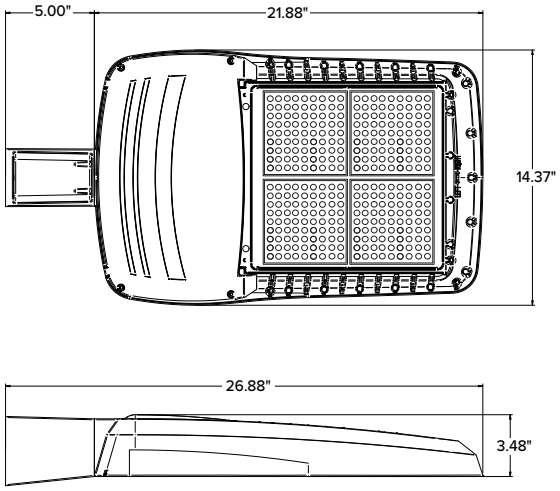
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DIMENSIONS

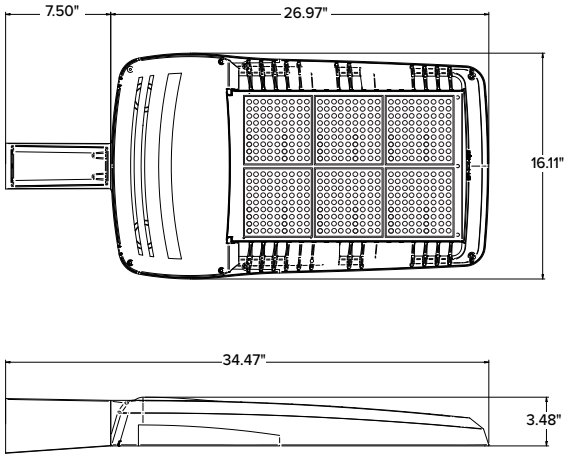
SIZE 1



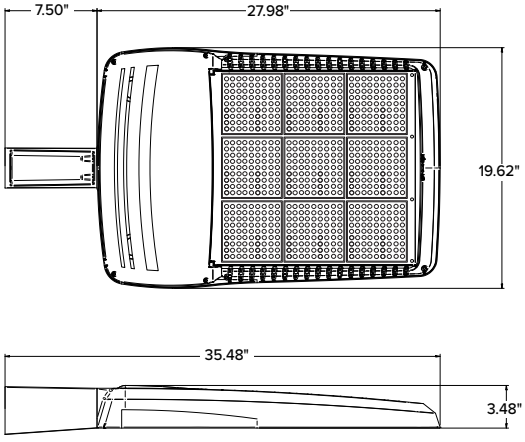
SIZE 2



SIZE 3



SIZE 4



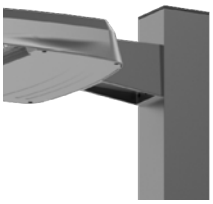
	EPA				
	VP1 (Size 1)	VP2 (Size 2)	VP3 (Size 3)	VP4 (Size 4)	Config.
Single Fixture	0.454	0.555	0.655	0.698	
Two at 180	0.908	1.110	1.310	1.396	
Two at 90	0.583	0.711	0.857	0.948	
Three at 90	1.037	1.266	1.512	1.646	
Three at 120	0.943	1.155	1.392	1.680	
Four at 90	1.166	1.422	1.714	1.896	

	Weight	
	lbs	kgs
VP1 (Size 1)	13.7	6.2
VP2 (Size 2)	16.0	7.26
VP3 (Size 3)	25.9	11.7
VP4 (Size 4)	30.8	13.9

VIPER Area/Site

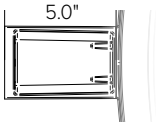
VIPER LUMINAIRE

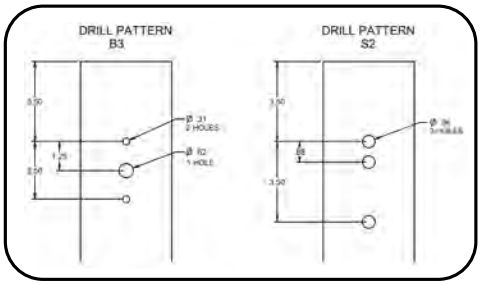
MOUNTING

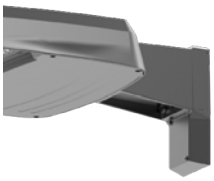


A–STRAIGHT ARM MOUNT

Fixture ships with integral arm for ease of installation. Compatible with Current Outdoor B3 drill pattern for ease of installation on square poles. For round poles add applicable suffix (2/3/4/5)

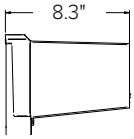


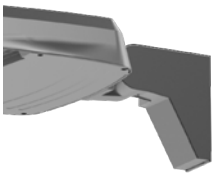




ASQU–UNIVERSAL ARM MOUNT

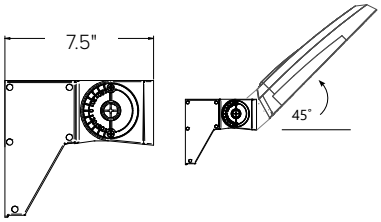
Universal mounting block for ease of installation. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5)

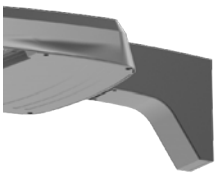




AAU–ADJUSTABLE ARM FOR POLE MOUNTING

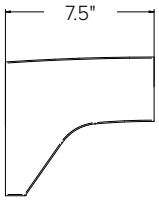
Rotatable arm mounts directly to pole. Compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2 and B3. For round poles add applicable suffix (2/3/4/5). Rotatable in 5˚ aiming angle increments. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.

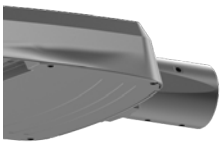




ADU–DECORATIVE UPSWEPT ARM

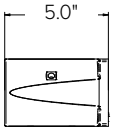
Upswept Arm compatible with drill patterns from 1.5" to 5.25" and Current drill pattern S2. For round poles add applicable suffix (2/3/4/5).

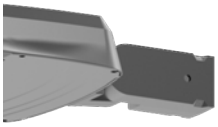




MAF–MAST ARM FITTER

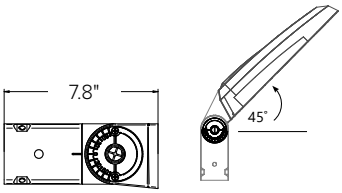
Fits 2-3/8" OD horizontal tenons.

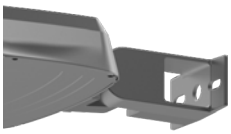




K–KNUCKLE

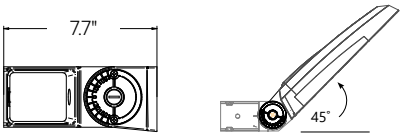
Rotatable in 5-degree aiming angle increments, fits 2-3/8" tenons or pipes. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.





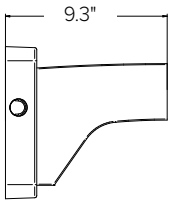
T–TRUNNION

Trunnion for surface and crossarm mounting using (1) 3/4" or (2) 1/2" size through bolts. Micro Strike configurations have a 45° aiming limitation. Strike configurations have a 30° aiming limitation.



WM–WALL MOUNT

Compatible with universal arm mount, adjustable arm mount, and decorative arm mount. The WA option uses the same wall bracket but replaces the decorative arm with an adjustable arm.

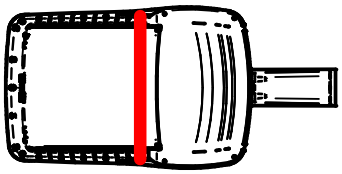


ADDITIONAL INFORMATION (CONTINUED)

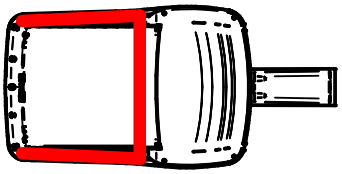
HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES

HSS has a depth of 5" for all Viper sizes
Not to be used with Occupancy Sensors as the shield may block the light to the sensor.

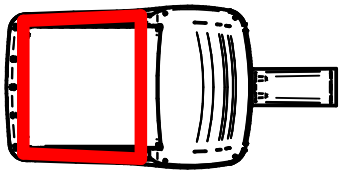
VPR2x HSS-90-B-xx



VPR2x HSS-270-BSS-xx



VPR2x HSS-360-xx



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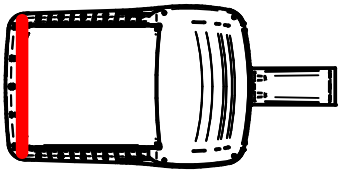

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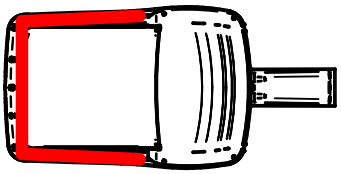

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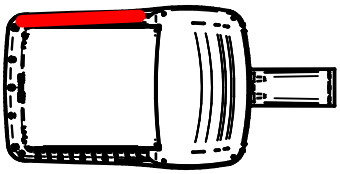

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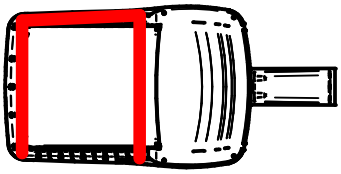

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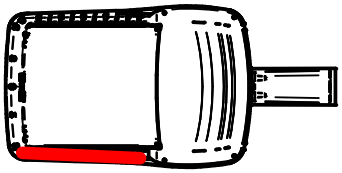

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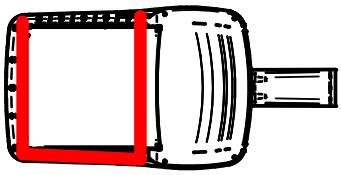

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First American Title Insurance Com

File No.: **4511-4018116 (KB)**

1136089

WARRANTY DEED

The Tetral Corporation, a Wyoming corporation, grantor(s) of **Natrona** County, State of **WY**, for and in consideration of Ten Dollars and Other Good and Valuable Consideration, in hand paid, receipt whereof is hereby acknowledged, Convey and Warrant To

NAP Nebraska, LLC, a North Dakota limited liability company, grantee(s),

whose address is: **Lots 11 and 12 Opportunity, Subdivision, Mills, WY 82604** of **Natrona** County and State of **WY**, the following described real estate, situate in **Natrona** County and State of **Wyoming**, to wit:

LOTS 11 AND 12, "OPPORTUNITY SUBDIVISION", AN ADDITION TO THE TOWN OF MILLS, NATRONA COUNTY, WYOMING ACCORDING TO THE PLAT RECORDED SEPTEMBER 11, 2017 AS INSTRUMENT NO. 1036450

Subject to all covenants, restrictions, reservations, easements, conditions and rights appearing of record.

Hereby releasing and waiving all rights under and by virtue of the homestead exemption laws of the State of Wyoming.

Witness my/our hand(s) this 31st day of JANUARY, 2023.

The Tetral Corporation, a Wyoming corporation

By: Steve Loftin
Name: Steve Loftin
Title: Corporate Vice President

State of **Wyoming**)
)ss.
County of **Natrona**)

This instrument was acknowledged before me on this 31 day of January, 2023 by **Steve Loftin**, the **Corporate Vice President** of **The Tetral Corporation**.

NOTARY PUBLIC
KREETA BOWER
STATE OF WYOMING
COUNTY OF NATRONA
My Commission Expires October 29, 2023

Kreeta Bower
Notary Public

My commission expires: 10/29/23

Mills Planning & Zoning Board Meeting Minutes

April 3, 2025

Board Members Present: Chairman John Gudger, Vice-Chairman Chris Volzke, and Member Robin Baye

City Staff in Attendance: Megan Nelms, City Planner, Sabrina Kemper, Community Development Director, and Sarah Osborn, City Clerk

Chairman John Gudger called meeting to order at 5:32pm on April 3, 2025, as a quorum was present.

CONSENT AGENDA

Minutes

1. Approval of minutes from March 6, 2025

- **a.** Board Member Chris Volzke made a motion to approve the minutes. Board Member Robin Baye seconded the motion. Chairman Gudger called for a vote to pass the minutes of the March 5, 2025 P&Z meeting. All ayes, motion passed.

AGENDA ITEM

2. 25.02 DEV – Cross Country Freight Development Plan

- **a.** Chairman Gudger asked Megan to provide a summary
- **b.** Megan detailed the Commercial Site Plan, stating the applicant is proposing to construct a 4,300 square foot warehouse with associated loading docks and areas for a commercial transportation business. The property is located on Lots 11 & 12, Opportunity Subdivision, off TKS Ct just west of Salt Creek Hwy. The rear of the lots adjoins the intersection of Salt Creek Hwy and MJB Rd. It is zoned Light Industrial. The planning commission is tasked with reviewing development proposed development plans to ensure the site plan complies with all applicable regulations and for this case the application's been submitted for construction of the industrial warehouses as stated the site encompasses two lots totaling just under 5.0-acres. No structures are planned across the lot line and all required setbacks from structures are met.
    - **i.** Planning Considerations
        1. Per Section 40.40 of the LDRs, a minimum of 4% of the site must be landscaped. Undisturbed, natural vegetation areas do not count towards required landscaping. The applicant has shown a landscaped area at the front of the proposed warehouse.
            - a. Provide additional information:
                - i. Revise the total area proposed to be landscaped on the site plan checklist
                - ii. Summary narrative of landscaping plan
                - iii. List of materials to be used in landscaping
            - b. Megan noted that she did forward a proposed landscaping plan concept earlier in the day.
        2. Provide a final pavement design report for all parking and loading areas.
        3. Enter into an approved Site Plan Agreement upon approval of the Development Plan.
        4. Obtain all required building permits for construction, including all site lighting and on premise signage.
        5. A single address will be assigned after approval of the site plan.

c. Staff Recommendations

i. Staff recommends APPROVAL of the development plan upon all planning considerations being completed.

d. Megan opened the floor for questions

i. Chairman Gudger questioned the landscape plan sent earlier in the day, stating that it was very generic and doesn't indicate the part of the site the landscaping was located. He also mentioned that there wasn't enough area around the trees to make sure they survived the harsh winters. He asked Megan if they are meeting the 4% requirement. Megan confirmed that they are meeting the 4%. She calculated the 4% again to make sure. The landscaped area came out to 2,900 square feet with is correct. The area is located near the front door on the plans sent earlier today. Chairman Gudger agreed they meet the requirements.

ii. Member Baye had a question about the storm water detention pond, asked if the landscaping butted up to the pond, asked if it will interfere. Megan asked Jason Myers with WLC Engineering to come forward and answer the question. Jason explained that it was going to be vegetated with native grass and the strip of landscaping that is shown on the plan behind the curb is an area 4-5 feet behind the curb, it is flat and that is where the plants will go. It will not be into the detention area. Member Baye asked if the majority of the lot is going to be asphalt and everything is set up as far as run off. Megan responded yes, the drainage study was included in the packet. Megan said she had the same questions and the packet was reviewed by Mr. Williams, the city engineer. He signed off on the location of the detention pond and the drainage study.

e. Member Volzke wanted to make a general comment not related to this application. Just in general if a landscape plan had not been given to the board today, I feel the board would have tabled or denied this request. The application would have been incomplete. He didn't have a question but wanted it on the record that on a consistency standpoint, they would like a complete packed to discuss each month. As far as Agenda Item 2, he feels that the plan presented is consistent with what they would expect in that area, feels the development zoning is correct, and the considerations are reasonable.

i. Member Baye asked what kind of trucks the building will be bringing in, singles or doubles. The response was singles.

f. Chairman Gudger stated that he feels that the board will need a preliminary development plan review before it comes to the board, so that they can avoid missing parts of an application.

g. Chairman Gudger asked for a motion to approve the application in conjunction with addressing the city planning comments. Vice-Chairman Volzke made a motion for a due-pass on the development plan, he noted Megan's comment about adding a narrative to the landscaping, just so there is documentation. Member Baye seconded the motion. All ayes, motion passed.

3. Chairman Gudger asked Megan if there is anything the city can do like a preliminary review, before the applications go to P&Z board to make sure the application is complete. Megan responded, that the staff will start doing sufficiency reviews. Said that there was another applicant that wanted to do a last minute change and she said no and that they will need to resubmit next month. We are making progress and trying not to delay people in their project, but making sure we have enough information to make an informed recommendation. Duly

noted we will be doing sufficiency reviews on all applications. Member Baye asked a member of the audience if there was a checklist that would help. The attendee stated a checklist is there and adequate. Megan confirmed there is a checklist but sometimes things slip and at first glance. Chairman Gudger said as long as there is a sufficiency check prior and give the applicant enough time to respond before it comes to the board. Megan agreed and said it would be an internal discussion and right now they don't give themselves enough time between submitting and coming before the board, there about 2 and ½ weeks. She said all good feedback and much appreciated.

a. Vice-Chairman Volzke commented that they are trying to strike the balance between making sure we're being a business friendly community for development to make sure that people know we have given them proper notice and not pushing them off for the next month. Also want to make sure a sufficient and complete packet in front of us.

4. Chairman Gudger opened the floor for public comments, no one spoke

Chairman Gudger adjourned the meeting at 5:49pm.