



Agenda

Historic Preservation Commission

Monday, November 27, 2023

5:30 PM

Small Conference Room, City Hall

1. HYBRID MEETING DETAILS

23-001754 Please click the link to join the webinar: <https://us02web.zoom.us/j/88111913944>
Webinar ID: 881 1191 3944

Or Telephone:

+1 253 205 0468 US; +1 253 215 8782 US (Tacoma);
+1 346 248 7799 US (Houston); +1 408 638 0968 US (San Jose)

2. ROLL CALL

3. APPROVAL OF MINUTES

23-001752 MINUTES FROM OCTOBER 23, 2023

4. CONSTITUENT COMMENTS

5. CHANGES TO THE AGENDA

6. WORKSHOP

23-001737 CA 2023-10 LIBRARY LIGHTING RETROFIT PROJECT
RECOMMENDED ACTION: CONSIDER THE ITEM IN NEW BUSINESS

23-001755 CA 2023-11 LIBRARY OUTDOOR HVAC UNIT
RECOMMENDED ACTION: CONSIDER THE ITEM UNDER NEW BUSINESS

23-001758 CA 2023-12 WOMENS CLUB LIGHTING
RECOMMENDED ACTION: CONSIDER THE ITEM UNDER NEW BUSINESS

7. OLD BUSINESS

23-001735 R.A. LONG HISTORIC PRESERVATION AWARD - JH KELLY PLAQUES

8. NEW BUSINESS

23-001736 CA 2023-10 LIBRARY LIGHTING RETROFIT PROJECT (see workshop item for details and plan sheets)
RECOMMENDED ACTION: MOTION TO APPROVE CA 2023-10 LIBRARY LIGHTING RETROFIT PROJECT

23-001757 CA 2023-11 LIBRARY OUTDOOR HVAC UNIT (see workshop item for details and plan sheets)
RECOMMENDED ACTION: MOTION TO APPROVE CA 2023-11 LIBRARY OUTDOOR HVAC UNIT

23-001759 CA 2023-12 WOMENS CLUB LIGHTING (see workshop item for details and plan sheets)
RECOMMENDED ACTION: MOTION TO APPROVE CA 2023-12 WOMENS CLUB
LIGHTING

23-001753 DECEMBER MEETING - SET ALTERNATIVE DATE, IF NEEDED

9. REPORTS

10. BOARD MEMBER COMMENTS

11. ADJOURNMENT



Minutes

Historic Preservation Commission

Monday, October 23, 2023

5:30 PM

Small Conference Room, City Hall

1. **HYBRID MEETING DETAILS**

23-001605 Please click the link to join the webinar: <https://us02web.zoom.us/j/88111913944>
Webinar ID: 881 1191 3944

Or Telephone:

+1 253 205 0468 US; +1 253 215 8782 US (Tacoma);
+1 346 248 7799 US (Houston); +1 408 638 0968 US (San Jose)

2. **ROLL CALL**

The meeting was called to order at 5:30 pm.

In attendance: Nat Light, Chair; CoChair; Jerry Bakken; Rick Johnson; Caitlin Tweedy

Excused: Arthur Chang

Unexcused: Darin Molnar

Staff: Mac Kosar, Planner; Nancy Vandehey, Admin

3. **APPROVAL OF MINUTES**

23-001606 MINUTES FROM SEPTEMBER 25, 2023

The minutes were approved as presented.

4. **CONSTITUENT COMMENTS**

5. **CHANGES TO THE AGENDA**

6. **WORKSHOP**

7. **OLD BUSINESS**

8. **NEW BUSINESS**

**23-001559 2023 ROBERT A. LONG HISTORIC PRESERVATION AWARD NOMINATIONS
STAFF RECOMMENDATION: COMMISSION DISCUSS AND VOTE ON A NOMINEE FROM
THE TWO NOMINATIONS RECEIVED TO BE PROCLAIMED BY CITY COUNCIL.**

After reviewing the criteria for award a vote was called - in favor of JH Kelly - Nat Light, Jerry Bakken, and Rick Johnson and in favor of Columbia River Reader - Caitlin Tweedy.

Jerry Bakken, seconded by Rick Johnson, made a motion to award JH Kelly the 2023 RA Long Historic Preservation Award. This passed unanimously.

Most likely the November 28th Council meeting will be the night for the presentation, if we can get the plaques prepared in time.

9. REPORTS

23-001607 REVITALIZEWA CONFERENCE REPORT

Arthur prepared the attached report from this attendance to the conference. Appreciation for Arthur Chang attending was expressed.

10. BOARD MEMBER COMMENTS

There was a discussion on the Clark statue item that was brought to HPC but has not returned for further review.

11. ADJOURNMENT

The meeting was adjourned at 5:46 pm.



City of Longview

Agenda Summary

CA 2023-10 LIBRARY LIGHTING RETROFIT PROJECT

RECOMMENDED ACTION: CONSIDER THE ITEM IN NEW BUSINESS

The Historic Preservation Commission has received an application for a Certificate of Appropriateness for improvements to be made to the Longview Public Library.

Attachments:

1. Signed HPC Cert of Appropriateness
2. LIBRARY SUBMITTAL PACKAGE
3. Emergency Exit Maps
4. Library Lighting Photos
5. Longview Library WC Lighting Retrofit Spreadsheet

**Application For A
CERTIFICATE OF APPROPRIATENESS
Longview Historic Preservation Commission
Longview, Washington**

Application No. CA 2023-10 Date 11/16/23

Instructions: Print neatly or type. Submit by the 3rd Thursday of the month in order to be considered at the regular meeting on the 4th Thursday of that month. Insufficient documentation and incomplete applications will be returned or placed on hold. **Please be aware that the issuance of Building Permits is dependant on obtaining a Certificate of Appropriateness.**

Application is hereby made for issuance of a Certificate of Appropriateness (under Longview Ordinance 16.12.060 (1) & (3) for work as described below, and on plans, drawings, photographs, and descriptive material (attached) :

Address of Proposed Work 1600 Louisiana St, Longview, WA 98632

Name of Building or Site Longview Library

Owner of Building or Site City of Longview Phone 360-442-5600

Home Address 254 Oregon Way, Longview, WA 98632

Name(s) & Address of Agent Keith Walling

Phone 360-442-5600

Name & Address of Architect or Designer N/A

Phone _____

Name & Address of Builder or Contractor Ameresco Inc.

9700 SW Capital Hwy, Ste 110, Portland, OR Phone (503) 290-1297

Approximate date of Starting Work December 2023 Completion Spring 2024

Information required for processing of application:

- ☒ 1. Plot Plan and /or floor plan
- ☐ 2. Two sets of plans and or drawings to scale, of all elevations on all sides affected. Drawings submitted must look professional or be of high quality and detail if applicable to the project, or for structural or substantial alterations.
- ☒ 3. Clear photographs of existing structure or property and listed features.
- ☒ 4. Samples of material and color (roofing, siding, windows, etc...)
- ☐ 5. Required permits from Community Development and/or Public Works Departments:
Circle (Building) (Plumbing) (Electrical) (Mechanical) (Demolition) (Windows, Siding) (R-O-W)

DESCRIPTION OF WORK (check appropriate categories):

☐ Historic Restoration	☐ Dwelling	☐ Siding	☐ Fence
☒ Renovation	☐ Commercial	☐ Porch	☐ Wall
☐ New Construction	☐ Garage	☐ Parking	☐ Steps
☐ Demolition	☐ Addition	☐ Walks	☐ Signs
☐ Foundation	☐ Awnings	☐ Windows	☐ Roof
☐ Chimney	☐ Skylights	☐ Color Change	☐ Painting

Itemize and describe all categories of proposed work. Include size, style, material and color: Provide information on the exact products that will be used: (product brochures, specifications, etc.) to assist the Commission in their review. Approved product choices will be stamped, and verified on final inspection.

*****Please attach or submit additional pages as necessary*****

We are updating the existing lighting with energy efficient fixtures or bulbs and replacing the parking lot light heads. Exit signs to be replaced with LED versions. There is no significant change to the look of the lights and many are already have more modern styling than the original construction era.

IMPORTANT:

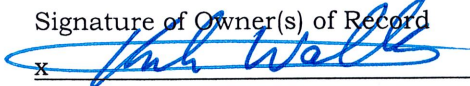
No work may differ from approved Certificate of Appropriateness.

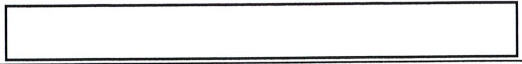
Any proposed Changes must be Reviewed and Approved by the Commission as an addendum to the Certificate of Appropriateness.

Certificate of Appropriateness is valid for 12 months from date of issuance.
Certificate may be renewed at discretion of the Historic District Commission.

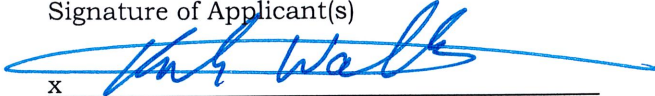
Do you intend to apply for Special Property Tax Valuation for Historic Property Renovation? ☐

Signature of Owner(s) of Record

x 

x 

Signature of Applicant(s)

x 

x _____

Signature of Agent (s)

x _____

x _____

Department Use Only

The following information to be completed by the Historic Preservation Commission:

Date application received _____

Date of Public Meeting _____

Inspected prior to hearing _____

Commissioners _____

Inspection upon Completion _____

Commissioners: _____

Planning & Building Dept. _____

The Historic Preservation Commission has made the following determination:

☐ Approved (Conditions) _____

☐ Denied (Findings) _____

Chair, Historic Preservation Commission:

Date:

X _____

Cutsheet Review Checklist

August 24, 2023

Project: City of Longview – Library

State Project No.:

Ameresco Project No.:

Reference: Lighting Preliminary Cutsheets

*Approval and Acceptance to be complete before equipment orders are placed.

Item #	Page #	Fixture Code:	Manufacturer	TYPE	Acceptance*
1	2	NLED9WA19	SATCO	LAMP	
2	3	NLED2PPL5W	SATCO	LAMP	
3	4	NLED11CPY16W	SATCO	FIXTURE	
4	5	NLEDT82L2TC	ESPEN	LAMP	
5	8	NLEDT82L4TC-NLEDT84L4TC-NLEDT84L8TC	ESPEN	LAMP	
6	11	T8 2 CHANNEL DRIVER	ESPEN	DRIVER	
7	13	T8 4 CHANNEL DRIVER	ESPEN	DRIVER	
8	15	NLEDEXITGBB	LITHONIA	FIXTURE	
9	17	NLEDFLKM9W	LITHONIA	FIXTURE	
10	21	NLEDWPFC13W	LITHONIA	FIXTURE	
11	23	NLEDPT80W	AEL	FIXTURE	
12					
13					
14					
15					
16					
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19					
20					
21					
22					





Project Name

Location

Prepared By



SATCO S11413

9A19/LED/E26/840/120V/100PK

Notes

[www] 06-09-2021 01:41:21

General

Status	Active
Watts	9W
Incandescent Equivalent	60W
Volts	120V
Shape	A19
Base	Medium
ANSI Base	E26
Finish	Frost
CCT (Kelvin)	4000
Temperature	Cool White
CRI	80
Lumens	800L
Beam Spread	220
Dimmable	Non-Dimmable
Hours Rated	10000
Lamp Type	Type A
Technology	LED

Electrical

Power Factor	0.5
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Physical

MOL	4.41
MOD	2.38
Weight (lb.)	0.08

Additional Information

Additional Info	Bulk packed 100 per case.
Rated For Enclosed Fixture	Yes
Warranty	3 Year Limited - 10 hr per day

Compliance

Safety Listing	cULus
Location Rating	Damp
Energy Star	No
California Status	Non-Compliant
RoHS Compliant	Yes
SDS Sheet	LED_Lamp

Project Name

Location

Prepared By

**SATCO S18403**

4.5W/LED/CFL/840/G23/BP

Notes

[www] 11-22-2021 02:57:42

General

Status	Active
Watts	4.5W
Fluorescent Equivalent	5W/7W/9W
Volts	120V-277V
Ballast Type	Type B
Shape	PL
Base	G23
ANSI Base	G23
Finish	Frost
CCT (Kelvin)	4000
Temperature	Cool White
CRI	80
Lumens	450L
Beam Spread	360
Dimmable	Non-Dimmable
Hours Rated	50000
Lamp Type	PL
Burning Position	Universal
Technology	LED

Electrical

Operating Frequency	50/60 Hz
Power Factor	0.9
Operating Temperature	-25C (-13F) to a maximum of +45C (+113F)

Physical

MOL	6.54
MOD	1.28
Housing Color	White
Weight (lb.)	0.55

Additional Information

Warranty	5 Year Limited - 10 hr per day
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Compliance

Safety Listing	cETLus
Location Rating	Damp
Energy Star	No
California Status	Lawful for sale
RoHS Compliant	Yes
SDS Sheet	LED_Lamp

Project Name

Location

Prepared By



NUVO 62-1225

11 ACRYLIC LED FLUSH FIXTURE

Notes

[www] 06-07-2023 00:27:19

General

Status	Active
Finish	White
Wattage	16W
Style	Contemporary
CCT (Kelvin)	3000K/4000K/5000K
Color Temperature	Warm White to Natural Light
Width (in.)	11.54
Height (in.)	3.04
Indoor or Outdoor Fixture	Indoor

Smart Product Info

IOT Enabled	No
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Specifications

Technology	LED
CRI	90
Lumen Output	1100L/1200L/1100L
Rated Hours	50000
Voltage	120V/277V
Dimmable	Yes-Dimmable
Dimming Note	0-10V Dimming
Weight (lb.)	1.21
Fixture Shape	Round
Fixture Material	Steel
Fixture Type	Flush Mount
Operating Temperature	-20C (-4F) to +40C (+104F)

Compliance

Safety Listing	cETLus - Listed
Location Rating	Damp
Energy Star	No
DLC Approved	No
CA T20 / T24 Rationale	California T24 2016 - 2022 JA8 Listed
California Status	Lawful for sale in California
Title 20 / 24 Status	California T24 Listed
California Prop 65	Lead
RoHS Compliant	Yes
FCC Compliant	Yes
SDS Sheet	LED_Fixture

Additional Information

Warranty	5 Year Limited - Fixtures
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CoreTech CRI80 Type C Lamp

Commercial Grade LED Lamp



Product Certification



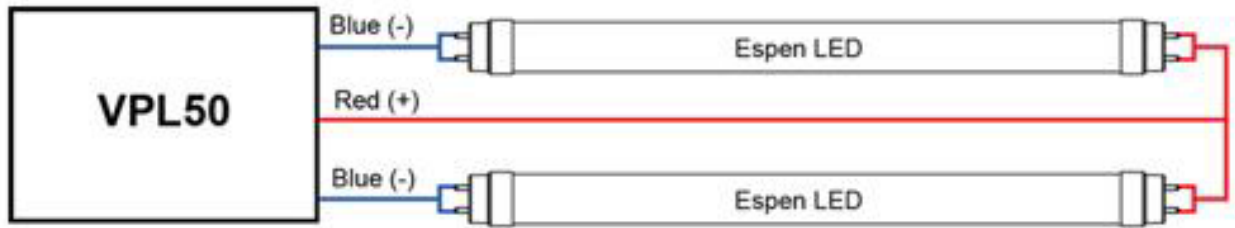
Features & Benefits

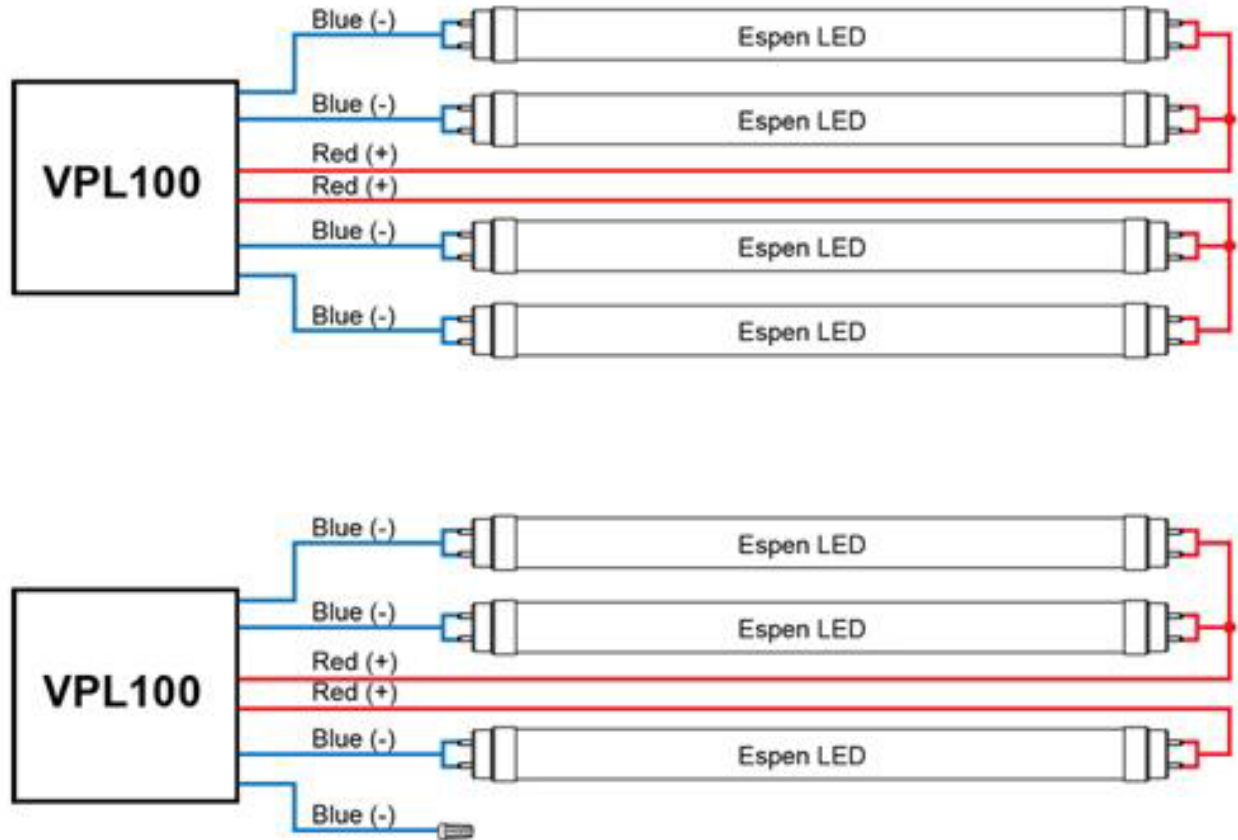
- Advanced dimming with Pro-DIM technology: 0-10V and/or AB dimming
- No Polarity: lamp ends can be reversed
- Same wiring as fluorescent lamp/ballast system
- UL 1598C for safety
- Full glass as fluorescent T8
- Smooth, Consistent Light
- Suitable for Dry and Damp Locations
- High CRI
- Instant on
- 50,000 hours with no limitation on On/Off Cycles
- Evaluated for use in totally enclosed, recessed luminaires, surface mount wall and ceiling luminaires, outdoor luminaires (open surface mount luminaires with compartment protection from weather)
- For use with Class 2 driver only
- 5 Year Warranty

Specification Data

Model	Lamp Input Current	System Wattage	Lamp Wattage	Length	CRI	Initial Lumens	Lamp Efficacy (lm/W)	System Efficacy (lm/W)	Beam Angle	CCT
L24T8/840/8G-XT	250mA	11	8	24"	82	1200	150	109	325	4000K
L24T8/840/8G-XT	300mA	12	9	24"	82	1300	145	108	325	4000K
L24T8/840/8G-XT	360mA	14	11	24"	82	1600	145	115	325	4000K

Wiring Diagram





Dlc Information

Order Code	Lamp Input Current	DLC Product ID	DLC Product Model	DLC Version
L24T8/840/8G-XT	250mA	N/A	N/A	N/A
L24T8/840/8G-XT	300mA	PZJ4YLGE	L24T8/840/8G-XT 2C N	5
L24T8/840/8G-XT	360mA	PN8FE0BK	L24T8/840/8G-XT 3C H	5

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.

CoreTech CRI80 Type C Lamp

Commercial Grade LED Lamp



Product Certification

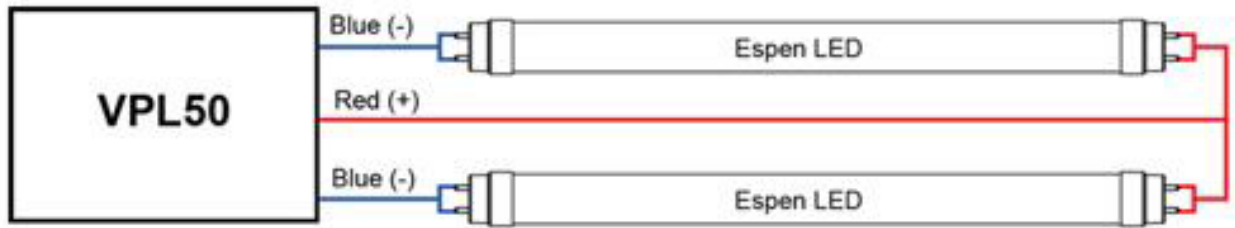
Features & Benefits

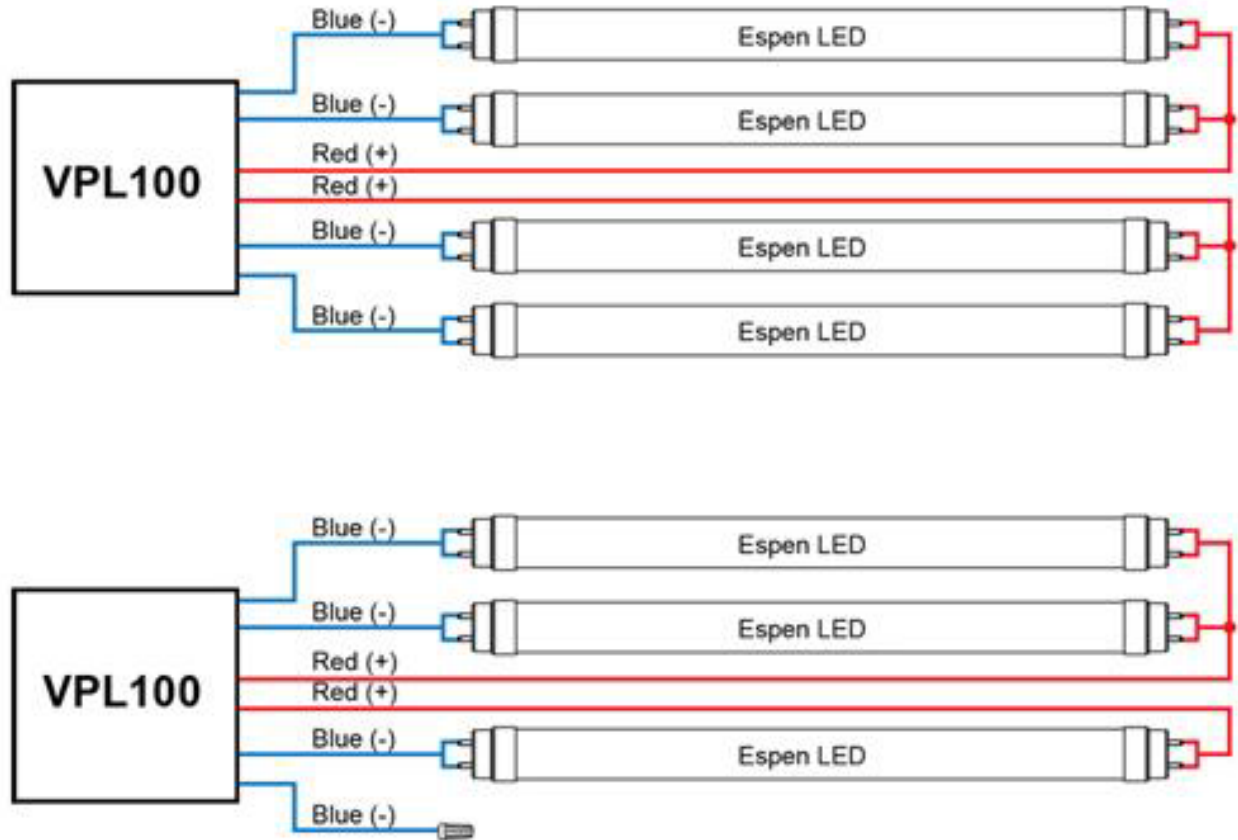
- Advanced dimming with Pro-DIM technology: 0-10V and/or AB dimming
- No Polarity: lamp ends can be reversed
- Same wiring as fluorescent lamp/ballast system
- UL 1598C for safety
- Full glass as fluorescent T8
- Smooth, Consistent Light
- Suitable for Dry and Damp Locations
- High CRI
- Instant on
- 50,000 hours with no limitation on On/Off Cycles
- Evaluated for use in totally enclosed, recessed luminaires, surface mount wall and ceiling luminaires, outdoor luminaires (open surface mount luminaires with compartment protection from weather)
- For use with Class 2 driver only
- 5 Year Warranty

Specification Data

Model	Lamp Input Current	System Wattage	Lamp Wattage	Length	CRI	Initial Lumens	Lamp Efficacy (lm/W)	System Efficacy (lm/W)	Beam Angle	CCT
L48T8/840/15G-XT	250mA	11.4	10	48"	82	1650	165	150	325	4000K
L48T8/840/15G-XT	300mA	15	12	48"	82	1800	150	120	325	4000K
L48T8/840/15G-XT	360mA	18	15	48"	82	2200	146	122	325	4000K

Wiring Diagram





Dlc Information

Order Code	Lamp Input Current	DLC Product ID	DLC Product Model	DLC Version
L48T8/840/15G-XT	250mA	PIFNEF1I	L48T8/840/15G-XT (2L)	5.1
L48T8/840/15G-XT	300mA	PZV5E4MK	L48T8/840/15G-XT N	5
L48T8/840/15G-XT	360mA	P4SJF8AD	L48T8/840/15G-XT H	5

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VPL50-2C-025/030/036	
1Driver Type	Constant Current Output Selectable LED Driver
No. of Channels	2
Input Voltage	120-277 V
Input Frequency	50-60 Hz
Dimming	0-10V

Features
• Universal Voltage (120-277V) • Multiple Output Channels • Constant Current • Per channel 250mA/300mA/360mA • 0-10V • Integrates with Adaptive Lighting Control Systems • Compatible with LED modules and Coretech LED tubes • UL, cUL, UL8750 Class 2 • FCC Part 15 Class A • Operating Temperature: -22°F to 122°F • Storage Temperature: -40°F to 131°F

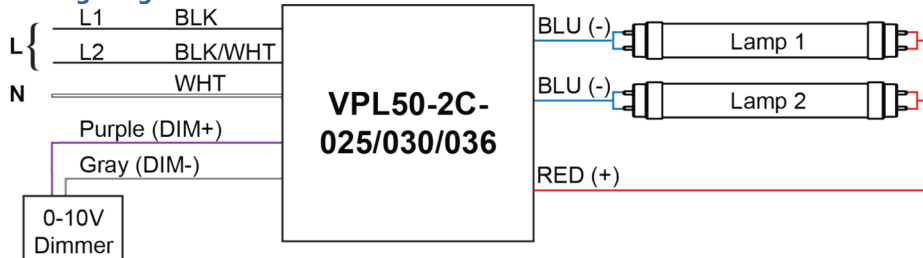
CoreTech VPL

PRODUCT SPECIFICATIONS



OUTPUT		INPUT	
No. of Channels	1 2	Frequency	50-60Hz
No. of Coretech LED Lamps	1 2	Input Voltage (range)	120-277 VAC
Output Voltage (Range)	20-48VDC	Power Factor (min.)	0.9 @ full load 277VAC
Output Current Range (Programmable @ full load)	250mA/300mA/360mA	THD (max.)	20% @ full load 110AC
Total Rated Power	35W	Efficiency (typical)	0.86

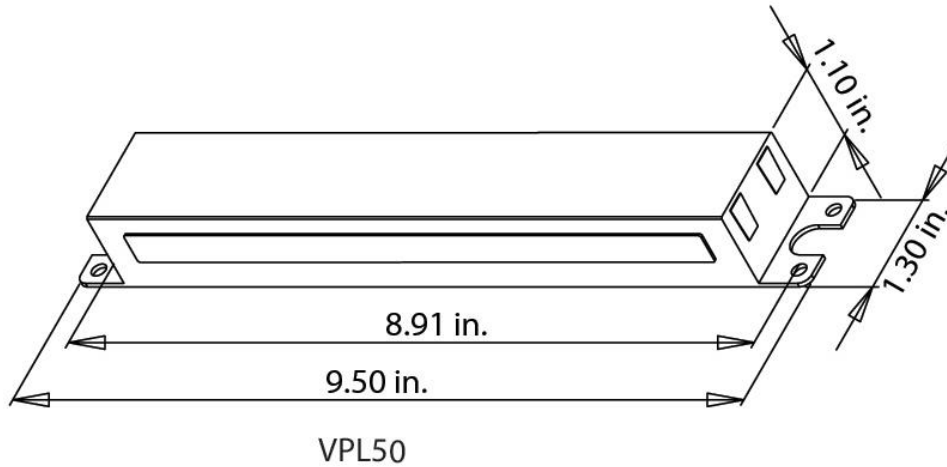
Wiring diagram



*Dual-Relay Output
Current Selection

Input Line	Output Current
L2 (BLK/WHT)	250mA
L1 (BLK)	300mA
L1 + L2	360mA

Dimension



Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.

Espen Technology, Inc. | 12257 Florence Avenue | Santa Fe Springs, CA 90670 | Phone: (562) 529-2938 | Fax: (562) 529-2978
Toll Free: (866) 933-7736 | Email: info@espentech.com | www.espentech.com



VPL100-4C-025/030/036

1Driver Type	Constant Current Output Selectable LED Driver
No. of Channels	4
Input Voltage	120-277 V
Input Frequency	50-60 Hz
Dimming	0-10V

Features

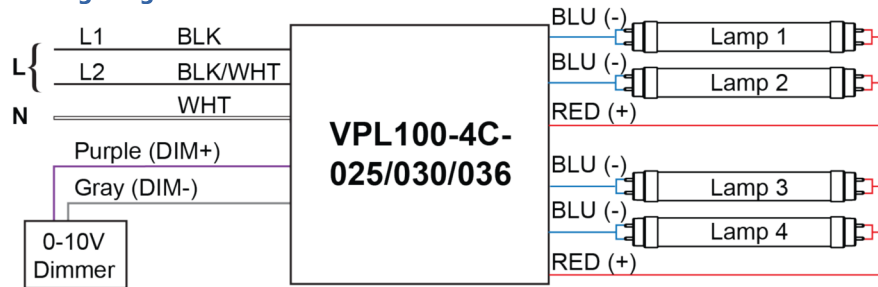
- Universal Voltage (120-277V)
- Multiple Output Channels
- Constant Current
- Per channel 250mA/300mA/360mA
- 0-10V
- Integrates with Adaptive Lighting Control Systems
- Compatible with LED modules and Coretech LED tubes
- UL, cUL, UL8750 Class 2
- FCC Part 15 Class A
- Operating Temperature: -22°F to 122°F
- Storage Temperature: -40°F to 131°F

CoreTech VPL PRODUCT SPECIFICATIONS



OUTPUT			INPUT	
No. of Channels	3	4	Frequency	50-60Hz
No. of Coretech LED Lamps	3	4	Input Voltage (range)	120-277 VAC
Output Voltage (Range)	20-48VDC		Power Factor (min.)	0.9 @ full load 277VAC
Output Current Range (Programmable @ full load)	250mA/300mA/360mA		THD (max.)	20% @ full load 110AC
Total Rated Power	69W		Efficiency (typical)	0.86

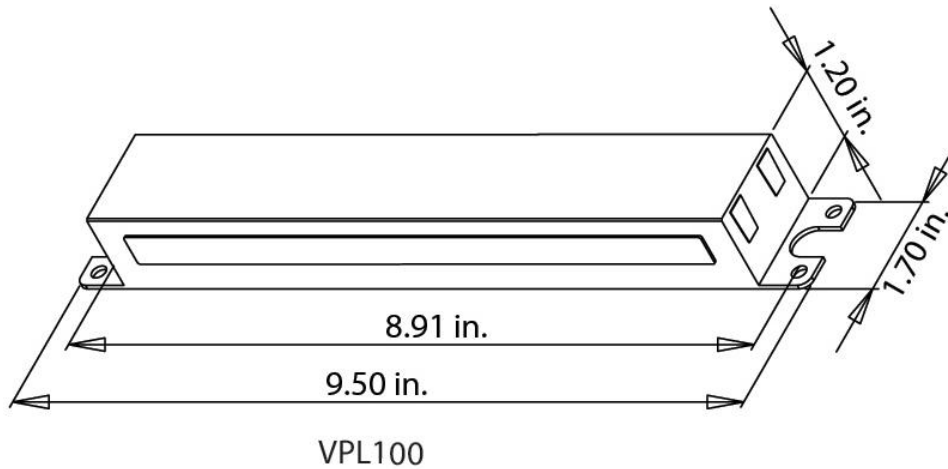
Wiring diagram



*Dual-Relay Output Current Selection

Input Line	Output Current
L2 (BLK/WHT)	250mA
L1 (BLK)	300mA
L1 + L2	360mA

Dimension



Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.

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Toll Free: (866) 933-7736 | Email: info@espentech.com | www.espentech.com



Catalog Number	NLEDEXITGBB
Notes	
Type	

Contractor Select™

EXRG

Lithonia Lighting Basics™
LED Exit

The Lithonia Lighting Basics™ EXRG Exit Sign is suitable for emergency signage applications such as stairways and hallways. This fully assembled single-face exit with extra faceplate is available in red and green letters. It's low profile makes it ideal for safely illuminated the path of egress in small spaces and can be wall or ceiling mounted. The emergency power provides 90 minutes of illumination in the event of a power loss.

FEATURES:

- Internal toggle switch for red or green letter color selection
- Test switch and status indicator for low maintenance (EL emergency models only)
- UL indoor damp location 50° to 104°F (10°C to 40°C) listed standard
- For use with Dual voltage 120/277VAC
- Internal switch for color selection



† Exit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number	UPC	Description	Supply Voltage	Input Wattage		Input Amps		Pallet Qty	Carton Qty
				120	277	120	277		
EXRG M6	00194994900658	Red/Green Exit, AC Only	120/277	1W	1W	0.09	0.09	360	6
EXRG EL M6	00194994900696	Red/Green Exit with Ni-MH backup battery	120/277	1W	1W	0.09	0.09	360	6

Accessories¹: Order as separate catalog number.

ELA WG1 Wireguard (back mount only, 13 3/4"H x 15 1/4"W x 6"D)

NOTES

1. See spec sheet [ELA-WG](#) for more information.



Specifications

INTENDED USE:

LED lighted exit signs for marking the means of egress in accordance with Life Safety Code NFPA 101. The EXRG has an internal switch that ships standard as a red exit and can be switched in the field to green. It is also packaged standard with an extra faceplate along with red and green inserts.

CONSTRUCTION:

Injection-molded, flame-retardant, high-impact, thermoplastic housing with snap-fit design components for easy installation. Universal J-box pattern. Universal chevrons are easily removed for directional indication.

Fully assembled single face with extra faceplate for easy field-conversion to double face.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based on UL924 standards.

OPTICS:

The typical life of the LED lamp is 10 years.

ELECTRICAL:

Dual-voltage input 120V or 277V AC. Non-emergency (AC only without battery) or Emergency exit with battery. The emergency model includes the test switch, status indicator and rechargeable battery.

Battery: (EL models) maintenance-free Nickel metal hydride battery provides 90 minutes of emergency power.

INSTALLATION:

Top, back or end mounting capability (canopy included).

LISTINGS:

UL Listed. Meets UL 924, NFPA 101 (current Life Safety Code), NFPA 70-NEC, FCC Title 47, Part 15, Subpart B and OSHA illumination standards. Indoor damp location 50° to 104°F (10°C to 40°C) listed standard.

WARRANTY:

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

www.acuitybrands.com/support/warranty/terms-and-conditions

All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.

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

Dimensions

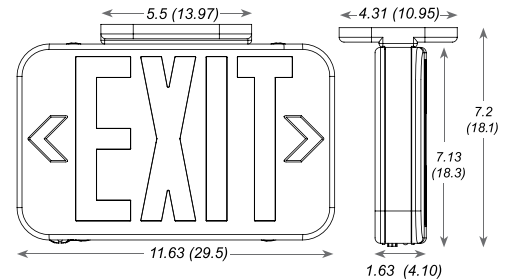
Length: 11.63 (29.5)

Depth: 1.63 (4.1)

Height: 7.2 (18.3)

Weight: EL: 1.6 LB

AC: 1.59 LB



All dimensions are inches (centimeters) unless otherwise indicated.



Catalog Number	NLEDFLKM9W
Notes	
Type	

Contractor Select™

ESXF LED

Floodlights

Adjustable+Switchable+Photocell

The Lithonia Lighting® ESXF LED floodlight is a general-purpose flood that offers a wide selection of options and flexibility. Easy access to adjustable lumen output, color switching, and a selectable photocell turns the ESXF into the fixture you need on the spot. With its wide flood (7x7) distribution and DLC performance, the ESXF is a cost-effective solution, great for illuminating yards, driveways, signage, patios, warehouses, and security applications.

FEATURES:

- Four sizes deliver 1,500 up to 20,000 lumens
- Three power levels of adjustable lumen output. Switchable CCT(30K/40K/50K) offers warm, cool and daylight in a single fixture
- Standard photocell can be turned on or off
- IP66 rated, Die-cast aluminum housing
- Two popular mounting options included
- up to 171 LPW



ESXF1 P0 knuckle mount



ESXF1 knuckle mount



ESXF2 knuckle mount



ESXF3 slipfitter mount



ESXF4 slipfitter mount



Adjustable Lumen Output ALO



Switchable CCT SWW2



Dusk-to-Dawn Operation PE



Catalog Number	 Adjustable Lumen Output ALO			 Switchable CCT SWW2	 Dusk-to-Dawn Operation PE	Input Voltage	Included Mounting Options	CRI
ESXF1 P0 SWW2 THK DDB	2500L			 Switchable 3000K, 4000K, 5000K	Included Standard, Selectable On/Off	120-277V	Knuckle Only, mounting plate	80CRI
ESXF1 ALO SWW2 KY DDB	1500L	3000L	5000L			120-277V	Knuckle & Yoke, mounting plate	
ESXF2 ALO SWW2 KY DDB	3500L	5500L	7500L			120-277V	Knuckle & Yoke, mounting plate	
ESXF3 ALO SWW2 YS DDB	8500L	10500L	14000L			120-277V	Yoke & SlipFitter	
ESXF3 ALO SWW2 UVOLT YS DDB						120-347V	Yoke & SlipFitter	
ESXF4 ALO SWW2 YS DDB	16000L	18000L	20000L			120-277V	Yoke & SlipFitter	
ESXF4 ALO SWW2 UVOLT YS DDB						120-347V	Yoke & SlipFitter	

More configurations are available. [Click here](#) or visit www.acuitybrands.com and search for ESXF LED.

ESXF Stock Configurations

Catalog Number	UPC	Ci Code	Number of fixtures per pallet	Traditional Replacement
ESXF1 P0 SWW2 THK DDB	00196182393051	*276AL6	400	150W Quartz or 75W HID
ESXF1 ALO SWW2 KY DDB	00196182393204	*276ALH	400	500W Quartz or 150W HID
ESXF2 ALO SWW2 KY DDB	00196182393242	*276ALU	360	500W Quartz or 175W HID
ESXF3 ALO SWW2 YS DDB	00196182393266	*276ALW	144	250W HID
ESXF3 ALO SWW2 UVOLT YS DDB	00196182393273	*276AM0	144	250W HID
ESXF4 ALO SWW2 YS DDB	00196182393280	*276AM2	144	400W HID
ESXF4 ALO SWW2 UVOLT YS DDB	00196182393297	*276AM4	144	400W HID

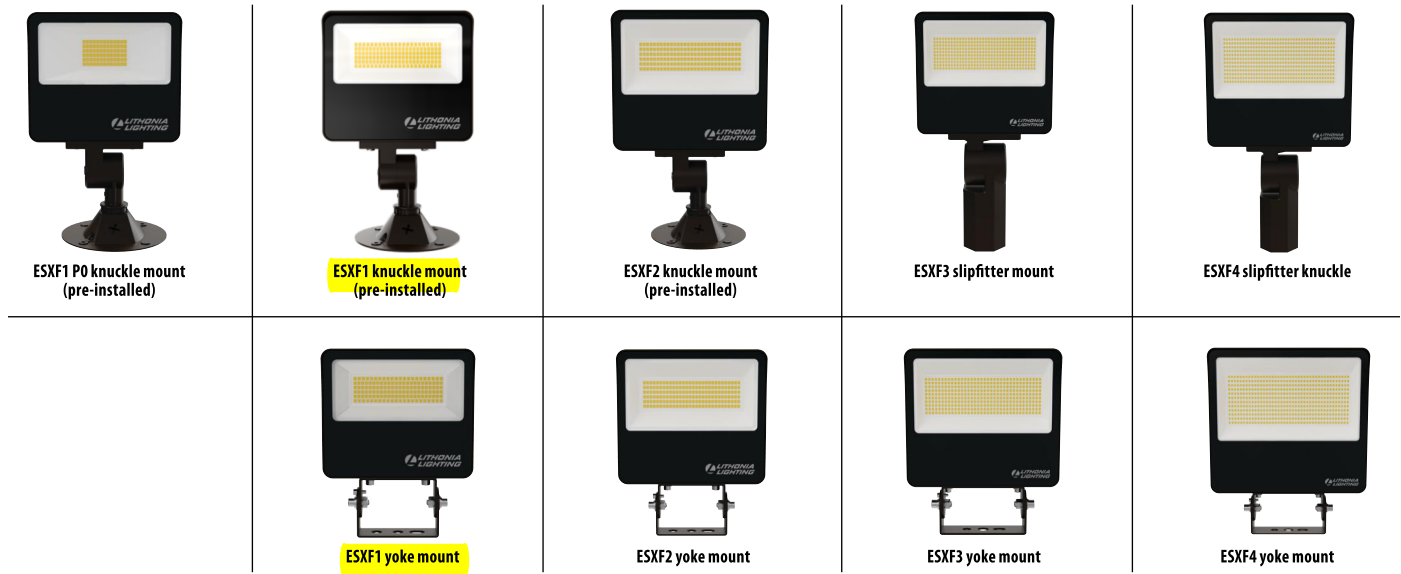
Accessories: Order as separate catalog number.

ESXF P0 and ESXF1 yoke mount accessory
*276ARA ESXF1YK DDB

Click here to visit [Accessories](#).



Included mounting options by size



Electrical Performance Tables

	Lumen Output	Input Wattage	CCT/80CRI	Delivered Lumens	Lumens Per Watt @ 4000K, 80CRI
ESXF1 P0	2500L	17W	3000K	2,372	151
			4000K	2,522	
			5000K	2,503	
ESXF1	1500L	9W	3000K	1,467	171
			4000K	1,560	
			5000K	1,549	
	3000L	19W	3000K	2,915	162
			4000K	3,099	
			5000K	3,076	
	5000L	34W	3000K	4,748	147
			4000K	5,047	
			5000K	5,010	

	Lumen Output	Input Wattage	CCT/80CRI	Delivered Lumens	Lumens Per Watt @ 4000K, 80CRI
ESXF3	8500L	53W	3000K	8,139	163
			4000K	8,653	
			5000K	8,589	
	10500L	69W	3000K	10,156	156
			4000K	10,797	
			5000K	10,718	
	14000L	100W	3000K	13,609	145
			4000K	14,469	
			5000K	14,362	

	Lumen Output	Input Wattage	CCT/80CRI	Delivered Lumens	Lumens Per Watt @ 4000K, 80CRI
ESXF2	3500L	22W	3000K	3,377	163
			4000K	3,591	
			5000K	3,564	
	5500L	37W	3000K	5,315	151
			4000K	5,651	
			5000K	5,609	
	7500L	56W	3000K	7,223	137
			4000K	7,680	
			5000K	7,623	

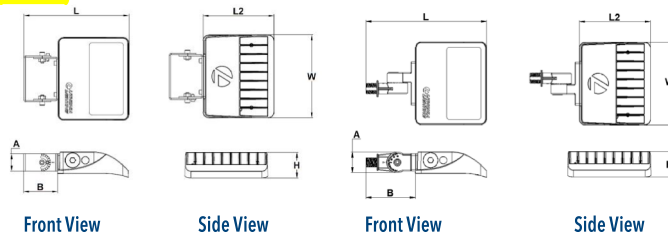
	Lumen Output	Input Wattage	CCT/80CRI	Delivered Lumens	Lumens Per Watt @ 4000K, 80CRI
ESXF4	16000L	111W	3000K	15,508	148
			4000K	16,487	
			5000K	16,366	
	18000L	124W	3000K	17,274	148
			4000K	18,365	
			5000K	18,230	
	20000L	150W	3000K	19,583	139
			4000K	20,819	
			5000K	20,666	



Dimensions

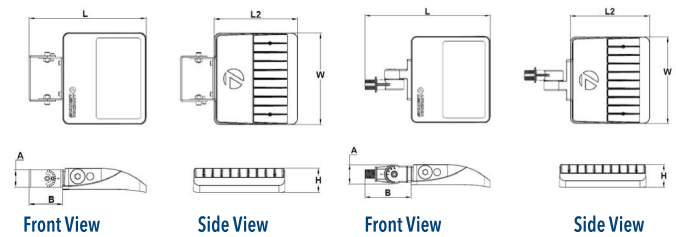
All dimensions are inches (centimeters) unless otherwise indicated.

ESXF1



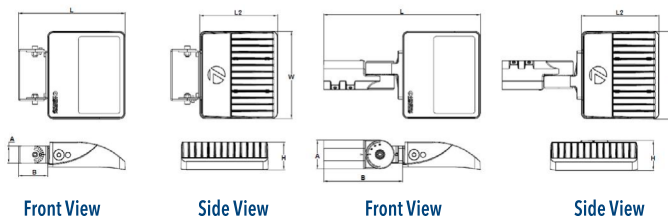
Luminaire	Length (L)	Width (W)	Height (H)	Yoke/Knuckle		L2	Weight
				A (Height)	B (Length)		
	Dimensions in inches" (centimeters)						Pounds (kg)
ESXF1 SWW2 ALO KY (Yoke)	7.65" (27.8cm)	6.04" (15.4cm)	1.86" (4.7cm)	1.26" (3.2cm)	2.48" (6.3cm)	5.17" (13.2cm)	2.31 lbs (1.048 kg)
ESXF1 SWW2 PO/ALO KY (Knuckle)	8.77" (22.3cm)	6.04" (15.4cm)	1.86" (4.7cm)	1.5" (3.8cm)	3.59" (9.1cm)	5.17" (13.2cm)	2.17 lbs (0.986 kg)

ESXF2



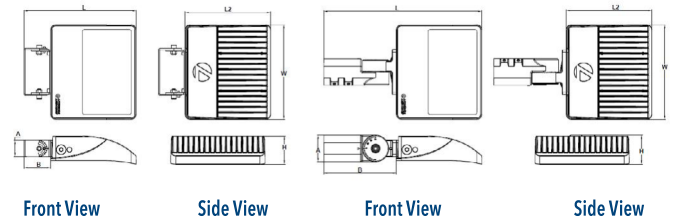
Luminaire	Length (L)	Width (W)	Height (H)	Yoke/Knuckle		L2	Weight
				A (Height)	B (Length)		
	Dimensions in inches" (centimeters)						Pounds (kg)
ESXF2 SWW2 ALO KY (Yoke)	8.64" (21.9cm)	6.75" (17.1cm)	1.8" (4.6cm)	1.26" (3.2cm)	2.48" (6.3cm)	6.16" (15.6cm)	2.92 lbs (1.324 kg)
ESXF2 SWW2 ALO KY (Knuckle)	9.75" (24.8cm)	6.75" (17.1cm)	1.8" (4.6cm)	1.5" (3.8cm)	3.59" (9.1cm)	6.16" (15.6cm)	2.79 lbs (1.264 kg)

ESXF3



Luminaire	Length (L)	Width (W)	Height (H)	Yoke/Knuckle		L2	Weight
				A (Height)	B (Length)		
	Dimensions in inches" (centimeters)						Pounds (kg)
ESXF3 SWW2 ALO SY (Yoke)	10.54" (19.4cm)	8.95" (22.7cm)	2.84" (7.2cm)	1.77" (4.5cm)	2.99" (7.6cm)	7.97" (20.2cm)	6.21 lbs (2.818 kg)
ESXF3 SWW2 ALO SY (Slipfitter)	16.07" (40.8cm)	8.95" (22.7cm)	3.04" (7.7cm)	2.95" (7.5cm)	8.11" (7.5cm)	7.97" (20.2cm)	6.48 lbs (2.938 kg)

ESXF4

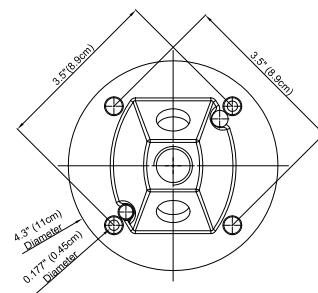


Luminaire	Length (L)	Width (W)	Height (H)	Yoke/Knuckle		L2	Weight
				A (Height)	B (Length)		
	Dimensions in inches" (centimeters)						Pounds (kg)
ESXF4 SWW2 ALO SY (Yoke)	12.54" (31.8cm)	10.54" (26.8cm)	3.12" (7.9cm)	1.77" (4.5cm)	2.99" (7.6cm)	9.55" (24.3cm)	8.17 lbs (3.706 kg)
ESXF4 SWW2 ALO SY (Slipfitter)	17.66" (44.8cm)	10.54" (26.8cm)	3.22" (8.2cm)	2.95" (7.5cm)	8.11" (20.6cm)	9.55" (24.3cm)	8.43 lbs (3.824 kg)

EPA Data

	Angle of Tilt	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
ESXF1	Project Area(ft ²)	0.078	0.114	0.15	0.183	0.21	0.231	0.246	0.25	0.25	0.25
	EPA(ft ²)	0.0936	0.1368	0.18	0.2196	0.252	0.2772	0.2952	0.3	0.3	0.3
ESXF2	Project Area(ft ²)	0.09	0.133	0.182	0.226	0.263	0.293	0.314	0.325	0.326	0.32
	EPA(ft ²)	0.108	0.1596	0.2184	0.2712	0.3156	0.3516	0.3768	0.39	0.3912	0.384
ESXF3	Project Area(ft ²)	0.23	0.285	0.383	0.471	0.548	0.608	0.65	0.673	0.674	0.66
	EPA(ft ²)	0.276	0.342	0.4596	0.5652	0.6576	0.7296	0.78	0.8076	0.8088	0.792
ESXF4	Project Area(ft ²)	0.23	0.365	0.494	0.609	0.707	0.785	0.84	0.869	0.87	0.81
	EPA(ft ²)	0.276	0.438	0.5928	0.7308	0.8484	0.942	1.008	1.0428	1.044	0.972

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.





Specifications

INTENDED USE:

The ESXF LED floodlight is designed to provide a cost effective, energy-efficient solution for the one-for-one replacement of existing traditional sources ranging from 150W quartz up to 400W metal halide. ESXF is well suited for general illumination of parking lots, signage, yards, walkways, landscaping, and other floodlighting applications. ESXF luminaires deliver a uniform, wide flood 7x7 light distribution.

CONSTRUCTION:

The ESXF LED floodlight features sealed die-cast aluminum body and is IP66 listed to withstand moisture and the elements for years to come.

ELECTRICAL:

ESXF features adjustable lumen output include, low, medium, and high. (ESXF P0 static only). Switchable CCT includes between 3000K(warm), 4000K(neutral) or 5000K(daylight) and a selectable dusk to dawn photocell that automatically turns the fixture on in the evening and off the next morning.

Standard 6kVsurge protection tested in accordance to ANSI/IEEE C62.41.2)Category C. ESXF LED luminaires use MVOLT (120-277V) as well as UVOLT (120-347V) on select models. Adjustable lumen output is achieved with 0-10V continuous dimming capable drivers, ensuring system power factor >90% and THD <20%.

INSTALLATION:

ESXF1 (P0) and ESXF2 ship with ½ NPS threaded knuckle mount factory installed and can be mounted to conduit bodies or to 4" electrical boxes using the provided round mounting plate. Yoke mounts can be easily changed in the field to mount to any solid surfaces (ESXF P0, knuckle mount only).

ESXF3 and ESXF4 include a yoke mounting for solid surface mounting and an integral slipfitter that mates with standard 2 3/8" tenons for pole-top mounting. All models ship standard with 18" SO cord.

LISTINGS:

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. Rated for -40°C minimum ambient.

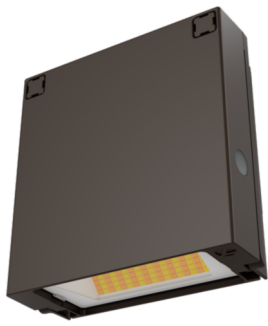
WARRANTY:

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

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



Factory settings
Lumen Output: High
CCT: 4000K
Photocell: On



WPX0 LED Wall Pack



Catalog
Number

NLEDWPFC13W

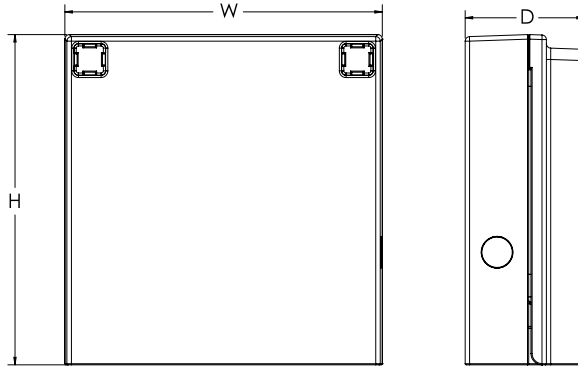
Notes

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

Specifications

Depth (D): 2"
Height (H): 5.75"
Width (W): 5.5"
Weight: 2.5lbs



Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in four sizes, the WPX family delivers 850 to 9,200 lumens with a wide, uniform distribution.

The WPX0 full cut-off wall pack is an excellent above the door lighting solution. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Standard features such as Adjustable Lumen Output (ALO), color switching and switchable photocell make WPX0 ideal for any application.

Ordering Information

EXAMPLE: WPX0 LED ALO SWW2 MVOLT PE DDBXD

Series	Color Temperature	Voltage	Controls	Finish
WPX0 LED ALO 850 - 1,650 Lumens	SWW2 3000K / 4000K / 5000K	MVOLT 120V - 277V	PE Photocell (On/Off)	DDBXD Dark bronze

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration.

NOTES:

Default out of the box settings: 1,650 Lumens, 4000K, Photocell enabled

FEATURES & SPECIFICATIONS

INTENDED USE

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX0, WPX1, WPX2 and WPX3 are ideal for replacing up to 70W, 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

CONSTRUCTION

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL

Light engine consist of high-efficacy LEDs and LED lumen maintenance of L86/100,000 hours. Color temperature (CCT) can be switched between 3000K, 4000K and 5000K with minimum CRI of 80. Electronic driver ensures system power factor >90% and THD <20%. The luminaire operates on MVOLT (120V - 277V) input.

A module inside the luminaire allows the installer to not only switch between CCTs, but also the adjust the lumen output and switch on and off the photocell (PE).

INSTALLATION

WPX can be mounted directly over a standard electrical junction box. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

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

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



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WPX0 LED
Rev. 10/31/22

Performance Data

Electrical Load

ALO Setting	Input Power (W)	120 V (A)	208 V (A)	240 V (A)	277 V (A)
ALO 4	13.0	0.11	0.06	0.05	0.05
ALO 3	9.2	0.08	0.04	0.04	0.03
ALO 2	7.8	0.07	0.04	0.03	0.03
ALO 1	6.4	0.05	0.03	0.03	0.02

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.93	>0.89	>0.86

Lumen Output

ALO Setting	Color Temperature	Lumen Output
ALO 4	3000K	1,591
	4000K	1,644
	5000K	1,667
ALO 3	3000K	1,164
	4000K	1,191
	5000K	1,225
ALO 2	3000K	974
	4000K	994
	5000K	1,025
ALO 1	3000K	814
	4000K	829
	5000K	859

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.027
5°C	41°F	1.023
10°C	50°F	1.018
15°C	59°F	1.012
20°C	68°F	1.006
25°C	77°F	1.000
30°C	86°F	0.993
35°C	95°F	0.986
40°C	104°F	0.979

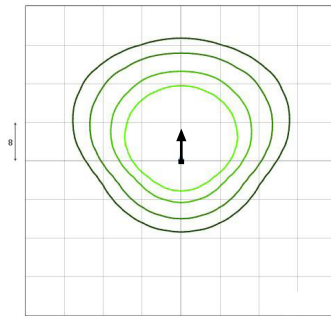
Photometric Diagrams

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

LEGEND

0.1 fc
0.2 fc
0.5 fc
1.0 fc

WPX0 LED ALO4



Switchable Features



PRODUCT OVERVIEW



Applications:

Streetscapes
 Walkways
 Pathways
 Parks



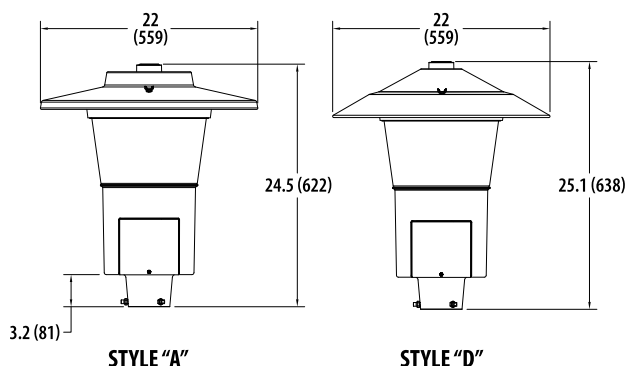
Features:

- Street and area LED luminaire, replaces up to 250W HID
- Fifteen (15) LED performance packages deliver just the right amount of light for any given application up to 9,500 lumens
- Available in color temperature choices of 2700K, 3000K, and 4000K
- Three (3) distinct light distribution options provide design flexibility, available in Type II, Type III and Type V
- Five (5) different lens-optics include prismatic and rain pattern reflectors in your choice of acrylic, glass or polycarbonate material
- Die-cast aluminum housing, engineered for sturdy lifelong performance
- Spun aluminum hood features a latching system with captive screw for fast and simple electrical and optical chamber access
- Multiple heavy-duty gaskets seal the optical chamber from outdoor weather and provide full illumination performance
- Available in multiple hood styles and a decorative scroll option
- Cone mounting fitter with three (3) set screws allows secure installation to pole sizes 2-3/8" or 3" O.D.
- Rated LED and driver life greater than 100,000 hours at 25°C
- Surge protection device (standard) exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Enhanced (10kV/5kA). 20KV Option exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Extreme (20kV/10kA)
- Equipped with LED electronic 0-10V dimmable driver with DALI driver option

Standards:

- Complies with all applicable ANSI C136 standards.
- CSA listed and suitable for up to 40°C ambient
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

DIMENSIONS

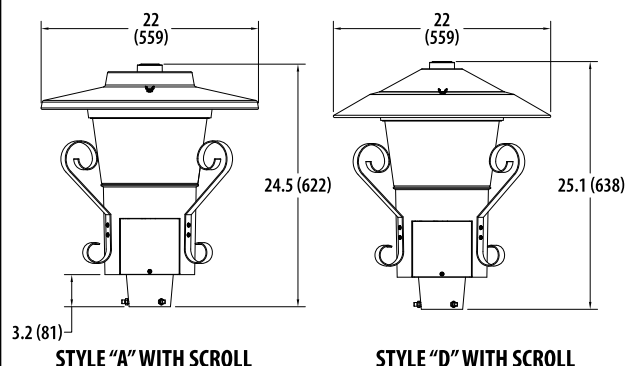


Effective Projected Area (EPA)

The EPA for the Contempo Series 245 is 1.3 sq. ft.
 Fixture weight = 32 lbs.

DIMENSIONS

SCROLL DESIGN OPTION



Effective Projected Area (EPA)

The EPA for the Decorative Scroll Option is 1.8 sq. ft.
 Approx. Wt. = 32 lbs.

All dimensions are inches (millimeters) unless otherwise noted.

Contempo LED

Series 245L

ORDERING INFORMATION

Example: 245L P155 MVOLT 40K R3 RNA GY SA PR7

Series	Performance Package			Voltage	Color Temperature (CCT)
245L Contempo LED	Package	Input Watts	Lumens (nominal)	MVOLT 120-277V HVOLT 347-480V XVOLT 277-480V with enhanced power quality protection	27K 2700K 30K 3000K 40K 4000K
	P101	20	2,100		
	P102	30	2,900		
	P103	40	3,700		
	P104	49	4,400		
	P151	30	3,200		
	P152	40	4,000		
	P153	50	4,800		
	P154	60	5,500		
	P155	70	6,200		
	P201	70	6,700		
	P202	80	7,400		
	P300	41	4,400		
	P301	60	6,400		
	P302	70	7,100		
	P303	80	7,800		

Distribution	Optics	Paint Finish	Hood Style	Photocontrol Receptacle
R2 Type II R3 Type III R5 Type V	RNA Rain Pattern Acrylic RNP Rain Pattern Polycarbonate GL Glass AY Acrylic PY Polycarbonate	GY Gray BK Black DDB Dark Bronze WH White BZ Bronze	SA Style A SD Style D	NR No photocontrol receptacle PR3 3 pin NEMA photocontrol PR7 7 pin NEMA photocontrol

Options

Options

PCLL	Solid state long life photocontrol, 120-277V (fail off)
PCSS	Solid state photocontrol, 120-277V (not CSA Listed) (fail on)
P34	Solid State Long Life Photocontrol, 347V (fail off)
P48	Solid State Long Life Photocontrol, 480V (fail off)
SH	Shorting cap
A0	Field adjustable output module
DALI	DALI driver (RFD required)

Miscellaneous

SS	Stainless steel hardware
TL	Tool-less wing screw entry
NL1X1	1" x 1" NEMA label
NL2X2	2" x 2" NEMA label
XL	Not CSA Listed
DD	Decorative scroll
CR	Epoxy Pre-Coat Finish
20kV	20kV/10kA surge protection device
HSS	Louvered house side shield

Prewired leads

L1H	1.5 ft. prewire leads
L03	3 ft. prewire leads
L10	10 ft. prewired leads
L20	20 ft. prewire leads
L25	25 ft. prewire leads
L30	30 ft. prewire leads

Special Packaging

SSP	Sample pack (UPS)
JP	Job pack style A hood, 728 units per trailer
JPD	Job pack style D hood, 624 units per trailer

Note: Check the OPTIONS MATRIX on Page 3 for compatibility & restrictions



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 www.americanelectriclighting.com Phone: 1-866-HOLOPHANE
 Email: TechSupportINF@AcuityBrands.com
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Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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Please contact your sales representative for the latest product information. Page 32 of 89

OPTIONS MATRIX

		Voltage			Receptacle			Photocontrol					Other		
		MVOLT	HVOLT	XVOLT	PR3	PR7	NR	PCLL	PCSS	P34	P48	SH	AO	DALI	20KV
Lumen Package	P101	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
	P102	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P103	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P104	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P151	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P152	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P153	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P154	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P155	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P201	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P202	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P300	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P301	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P302	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
	P303	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	Y
Voltage	MVOLT				Y	Y	Y	Y	Y	N	N	Y	Y	RFD	Y
	HVOLT				Y	Y	Y	N	N	Y	Y	Y	Y	N	Y
	XVOLT				Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y
Receptacle	PR3	Y	Y	Y				Y	Y	Y	Y	Y	Y	RFD	Y
	PR7	Y	Y	Y				Y	Y	Y	Y	Y	Y	RFD	Y
	NR	Y	Y	Y				N	N	N	N	N	Y	RFD	Y
Photocontrol	PCLL	Y	N	Y	Y	Y	N						Y	RFD	Y
	PCSS	Y	N	Y	Y	Y	N						Y	RFD	Y
	P34	N	Y	Y	Y	Y	N						Y	RFD	Y
	P48	N	Y	Y	Y	Y	N						Y	RFD	Y
	SH	Y	Y	Y	Y	Y	N						Y	RFD	Y
Other	AO	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	Y
	DALI	RFD	N	N	RFD	RFD	RFD	RFD	RFD	RFD	RFD	RFD	N		RFD
	20KV	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	RFD	

MATRIX KEY

Y = Option combination is available

N = Option combination is not available

RFD = Option combination is available but additional information required. Consult factory.



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OPERATING CHARACTERISTICS

Performance Package	Wattage	CCT	RNA Optic					
			R2		R3		R5	
			Lumens	LPW	Lumens	LPW	Lumens	LPW
P101	20	2700K	1,986	99	2,032	102	2,370	118
		3000K	2,073	104	2,121	106	2,473	124
		4000K	2,163	108	2,214	111	2,581	129
P102	30	2700K	2,690	90	2,752	92	3,209	107
		3000K	2,807	94	2,873	96	3,349	112
		4000K	2,929	98	2,997	100	3,495	116
P103	40	2700K	3,454	86	3,534	88	4,121	103
		3000K	3,605	90	3,689	92	4,301	108
		4000K	3,762	94	3,849	96	4,488	112
P104	49	2700K	4,102	83	4,198	85	4,895	99
		3000K	4,282	87	4,381	89	5,109	104
		4000K	4,468	91	4,572	93	5,331	108
P151	30	2700K	3,031	101	3,102	103	3,617	121
		3000K	3,164	105	3,237	108	3,775	126
		4000K	3,301	110	3,378	113	3,939	131
P152	40	2700K	3,678	92	3,764	94	4,389	110
		3000K	3,839	96	3,929	98	4,581	115
		4000K	4,006	100	4,100	102	4,780	120
P153	50	2700K	4,445	89	4,549	91	5,304	106
		3000K	4,640	93	4,748	95	5,536	111
		4000K	4,842	97	4,954	99	5,777	115
P154	60	2700K	5,139	86	5,259	88	6,132	102
		3000K	5,364	89	5,489	91	6,400	107
		4000K	5,597	93	5,728	95	6,679	111
P155	70	2700K	5,829	83	5,964	85	6,954	99
		3000K	6,084	87	6,225	89	7,259	104
		4000K	6,348	91	6,496	93	7,574	108
P201	70	2700K	6,305	90	6,451	92	7,523	107
		3000K	6,581	94	6,734	96	7,852	112
		4000K	6,867	98	7,027	100	8,193	117
P202	80	2700K	6,916	86	7,077	89	8,253	103
		3000K	7,219	90	7,387	92	8,614	108
		4000K	7,533	94	7,708	96	8,988	112
P300	41	2700K	4,091	101	4,186	103	4,881	120
		3000K	4,270	105	4,370	108	5,095	125
		4000K	4,456	110	4,560	112	5,317	131
P301	60	2700K	5,958	99	6,097	102	7,109	118
		3000K	6,219	104	6,364	106	7,420	124
		4000K	6,489	108	6,640	111	7,743	129
P302	70	2700K	6,655	95	6,810	97	7,941	113
		3000K	6,947	99	7,108	102	8,289	118
		4000K	7,249	104	7,418	106	8,649	124
P303	80	2700K	7,342	92	7,513	94	8,760	110
		3000K	7,663	96	7,841	98	9,143	114
		4000K	7,996	100	8,182	102	9,541	119

The table above shows performance of the RNA optic. For other optics, use the lumen multiplier in the table below:

Optic	Lumen Multiplier
RNA	1.00
RNP	0.98
GL	0.86
AY	0.80
PY	0.72



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PROJECTED LED LUMEN MAINTENANCE

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). For other lumen maintenance values, contact factory.

LED Lumen Maintenance							
Performance Package	Initial	25k hours	36k hours	50k hours	60k hours	75k hours	100k hours
P101, P102, P151, P300	1.00	0.96	0.94	0.92	0.90	0.88	0.85
P103, P152	1.00	0.95	0.93	0.91	0.90	0.87	0.84
P153, P301, P302	1.00	0.95	0.93	0.91	0.89	0.87	0.83
P104, P154, P201, P303	1.00	0.95	0.93	0.90	0.89	0.86	0.82
P155, P202	1.00	0.94	0.92	0.89	0.88	0.85	0.80

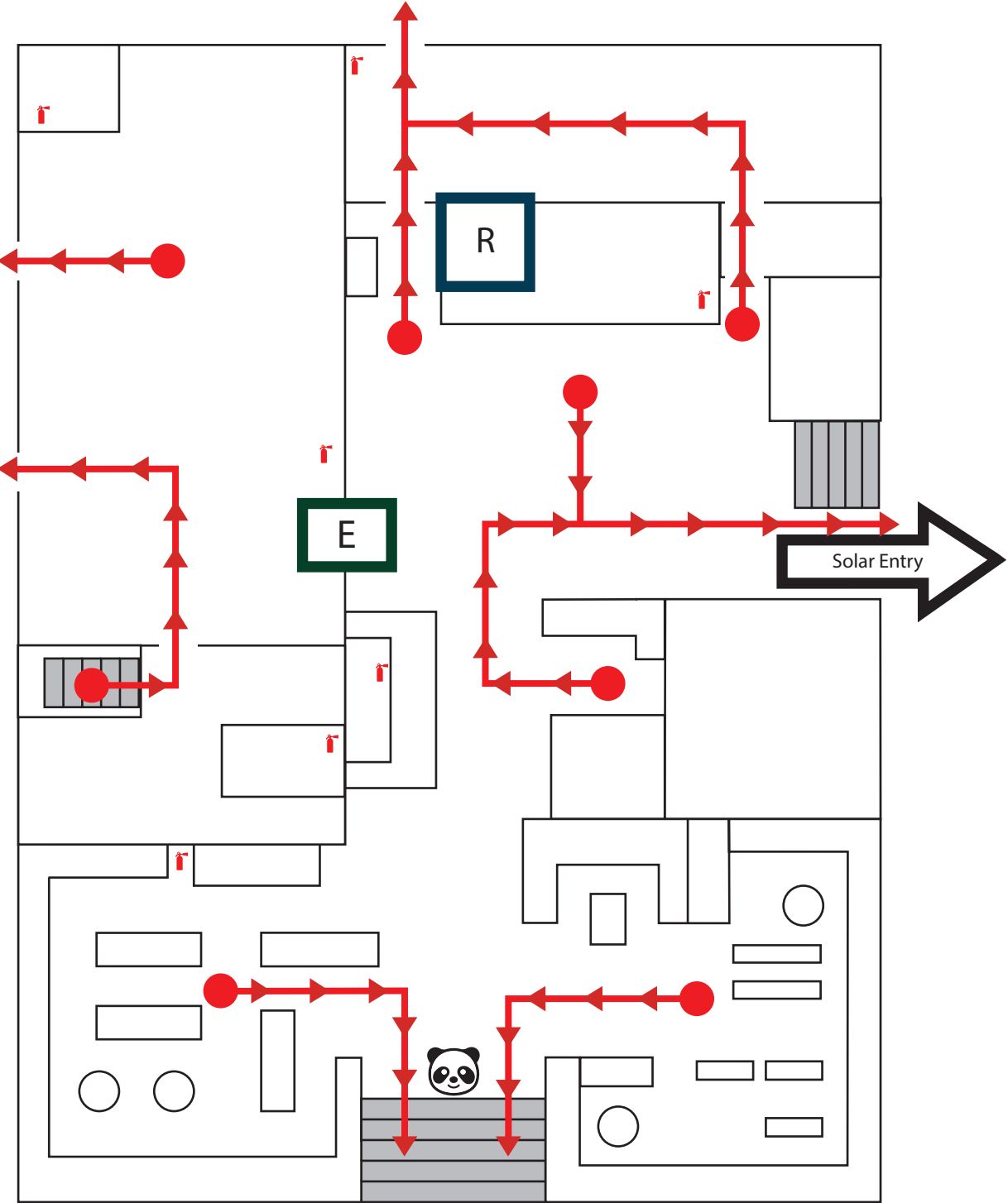
LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS

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

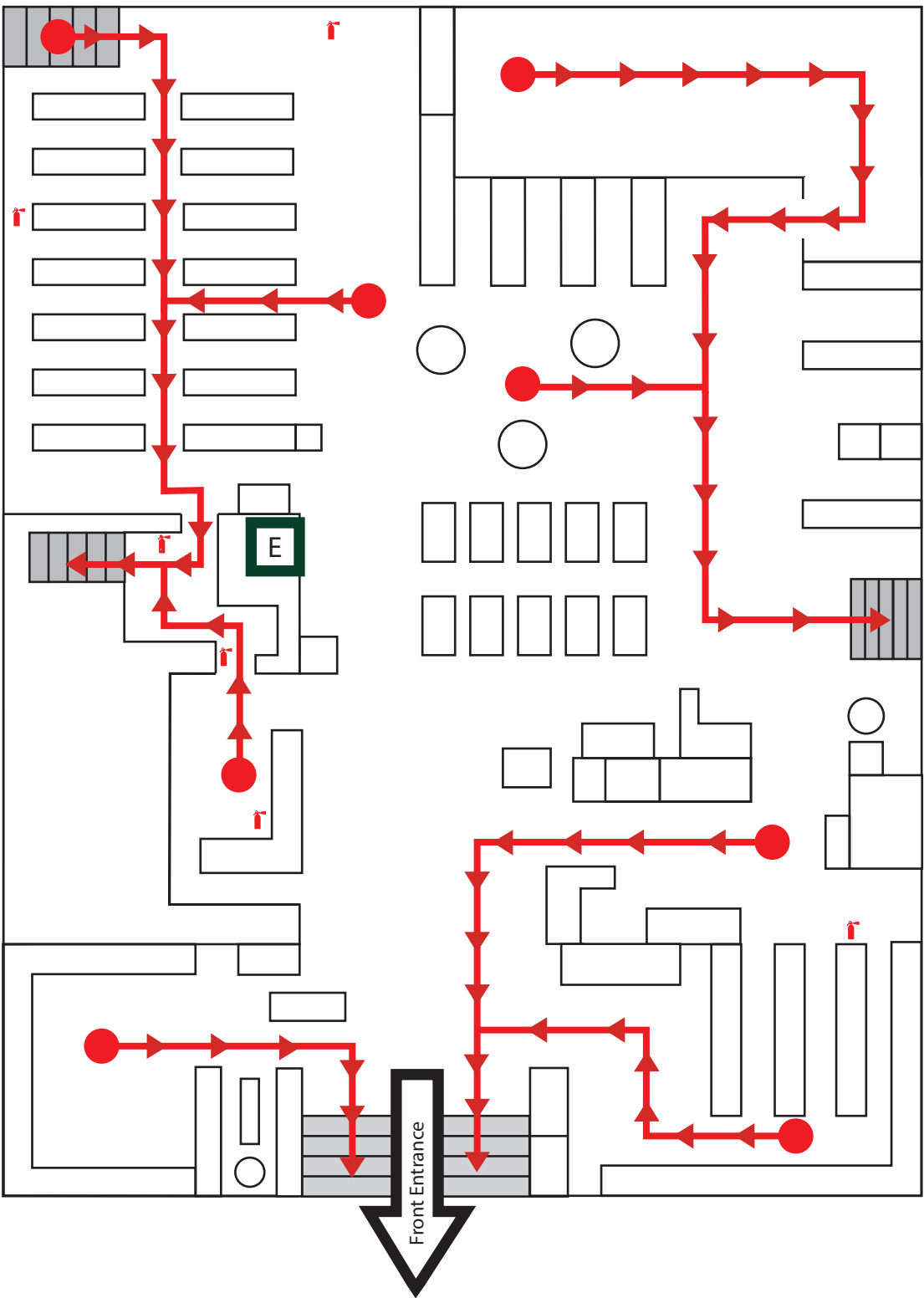
Luminaire Ambient Temperature (LAT) Multiplier								
0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.98	0.97

Emergency Exits

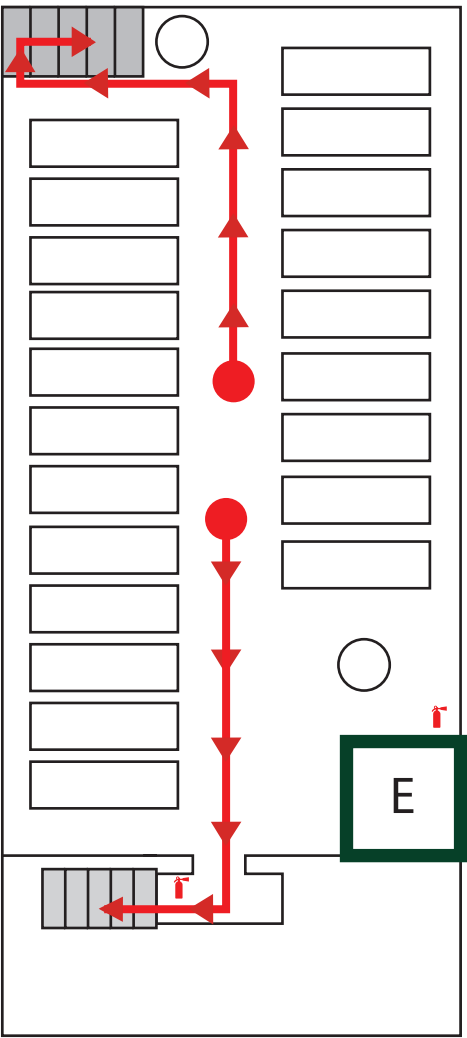
Lower Floor



Main Floor



Mezzanine



**Fire Extinguisher**

**Stairs**

**Elevator**

**Restrooms**

Library Lighting Photos



Mechanical Room. Bulbs to be replaced with LED.



Exterior Fixtures to be replaced with LED.



Exterior fixtures to be replaced with LED fixtures.



Parking lot lighting heads to be replaced with LED fixtures.







Fluorescent fixtures through out to be converted to LED bulbs.



Chandeliers to be converted to LED bulbs. Potentially rewired and sockets updated.



Stairwell lighting. Round fixtures to be replaced with LED. Sconce to get LED bulbs.



Exit Signs to be replaced with LED versions.

Site Information			Existing							Selected					
Item #	Site	Location (floor, room #, etc.)	Exist. Fixture Code	Fixture Description	Fixture Quantity	If Controlled by a Device on another Line, Enter Item # Here	Existing Controls Description	Device Quantity	Selected Solution	Selected Fixture Code	Fixture Description	Fixture Quantity	If Controlled by a Device on another Line, Enter Item # Here	Selected Controls Description	Device Quantity
127	Library	City of Longview Library Interior Lower floor Workroom	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	83	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	83			
128	Library	City of Longview Library Interior Lower floor Jakobs office	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	2			
129	Library	City of Longview Library Interior Lower floor Staff corridor	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	2			
130	Library	City of Longview Library Interior Lower floor Staff corridor	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
131	Library	City of Longview Library Interior Lower floor Staff restroom	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	1	0	Wall Sensor Switch	1	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		Wall Sensor Switch	1
132	Library	City of Longview Library Interior Lower floor Staff breakroom	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	12	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	12			
133	Library	City of Longview Library Interior Lower floor Kitchen	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
134	Library	City of Longview Library Interior Lower floor Storage room	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
135	Library	City of Longview Library Interior Lower floor Under stairwell	ECFSI23W	Existing CFL Porcelain Keyless surface mount ceiling screw-in 23W	1	0		0	Upgrade Fixtures	NLED9WA19	New LED 9 Watt A19 Lamp (S11413)	1			
136	Library	City of Longview Library Interior Lower floor Children's Library	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	79	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	79			
137	Library	City of Longview Library Interior Lower floor Children's Library	ETLEDW215W	Existing LED Troffer Wrap Surface mount ceiling Prismatic 4' 2 lamp 15W	12	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	12			
138	Library	City of Longview Library Interior Lower floor Children's Library display area	ET8TCL4X4432 W	Existing T8 Troffer recessed cloud lense 4x4' 4 lamps 32W	14	0		0	Upgrade Fixtures	NLEDT84L4TC	New LED T8 4 Lamp Type C 4' Retrofit (Espan Core)	14			
140	Library	City of Longview Library Interior Lower floor Children's Library display area	ECFSTL2P13W	Existing CFL Steplight recessed 10"x10" 2 pin 1 lamp 13W	4	0		0	Upgrade Fixtures	NLED2PPL5W	New LED 2 Pin PL 5 Watt G23 Base (S18403)	4			
141	Library	City of Longview Library Interior Lower floor Marion J Otteraaen Room	ET8TVL4232W	Existing T8 Troffer Volumetric recessed 2x4' 2 lamp 32W	8	0	Wall Sensor Switch	2	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	8		Wall Sensor Switch	2
142	Library	City of Longview Library Interior Lower floor Bathroom corridor	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4 2 lamp 32W	3	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	3			
145	Library	City of Longview Library Interior Lower floor Bathroom corridor	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
147	Library	City of Longview Library Interior Lower floor Women's restroom	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	2			
149	Library	City of Longview Library Interior Lower floor Large auditorium	ET8TCL4X4432 W	Existing T8 Troffer recessed cloud lense 4x4' 4 lamps 32W	11	0		0	Upgrade Fixtures	NLEDT84L4TC	New LED T8 4 Lamp Type C 4' Retrofit (Espan Core)	11			
150	Library	City of Longview Library Interior Lower floor Large auditorium	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
152	Library	City of Longview Library Interior Lower floor Large auditorium	ECFSTL2P13W	Existing CFL Steplight recessed 10"x10" 2 pin 1 lamp 13W	2	0		0	Upgrade Fixtures	NLED2PPL5W	New LED 2 Pin PL 5 Watt G23 Base (S18403)	2			
153	Library	City of Longview Library Interior Lower floor Large auditorium Storage room	ET8ST8432W	Existing T8 Strip Surface mount ceiling 8' fixture 4' 4 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT84L8TC	New LED T8 4 Lamp Type C 8' Retrofit (Espan Core)	1			
154	Library	City of Longview Library Interior Lower floor Austin's office	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	4	0	Ceiling mount Sensor	1	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	4		Ceiling mount Sensor	1
155	Library	City of Longview Library Interior Lower floor Librarians office	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	4	0	Wall Sensor Switch	1	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	4		Wall Sensor Switch	1
156	Library	City of Longview Library Interior Lower floor Conference room	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	8	0	Ceiling mount Sensor	1	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	8		Ceiling mount Sensor	1
157	Library	City of Longview Library Interior Lower floor Private restroom	ET8T22217W	Existing T8 Troffer recessed prismatic 2x2' 2 lamp 17W	1	0		0	Upgrade Fixtures	NLEDT82L2TC	New LED T8 2 Lamp Type C 2' Retrofit (Espan Core)	1			
158	Library	City of Longview Library Interior Lower floor Supply closet	ECFSI23W	Existing CFL Porcelain Keyless surface mount ceiling screw-in 23W	1	0		0	Upgrade Fixtures	NLED9WA19	New LED 9 Watt A19 Lamp (S11413)	1			
159	Library	City of Longview Library Interior Lower floor Office corridor	ET8T22217W	Existing T8 Troffer recessed prismatic 2x2' 2 lamp 17W	2	0		0	Upgrade Fixtures	NLEDT82L2TC	New LED T8 2 Lamp Type C 2' Retrofit (Espan Core)	2			
160	Library	City of Longview Library Interior Lower floor Austin's office Supply closet	ECFSI23W	Existing CFL Porcelain Keyless surface mount ceiling screw-in 23W	2	0		0	Upgrade Fixtures	NLED9WA19	New LED 9 Watt A19 Lamp (S11413)	2			
161	Library	City of Longview Library Interior Lower floor Front stairwell	ECFSTL2P13W	Existing CFL Steplight recessed 10"x10" 2 pin 1 lamp 13W	1	0		0	Upgrade Fixtures	NLED2PPL5W	New LED 2 Pin PL 5 Watt G23 Base (S18403)	1			
162	Library	City of Longview Library Interior Lower floor Front stairwell	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1			
164	Library	City of Longview Library Interior Main floor Stacks area	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	120	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	120			
165	Library	City of Longview Library Interior Mezzanine	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	122	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	122			

166	Library	City of Longview Library Interior Longview room	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	6	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	6		
167	Library	City of Longview Library Interior Stairwell entry	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		
168	Library	City of Longview Library Interior Stairwell entry	EINCEXIT	Existing incandescent exit sign 1 lamp 20W	1	0		0	Upgrade Fixtures	NLEDEXITGBB	New LED Green Exit Sign with Battery backup (EXRG EL M6)	1		
169	Library	City of Longview Library Interior Employee stairwell	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	2		
170	Library	City of Longview Library Interior Employee stairwell	ECFCNYPL13W	Existing CFL Canopy surface mount ceiling 12" 2 pin 2 lamp 13W	1	0		0	Upgrade Fixtures	NLED11CPY12W	New LED 11" Canopy 12W White (Satco 62-791)	1		
171	Library	City of Longview Library Interior Employee stairwell	ECFSCOPL13W	Existing CFL Sconce wall mount 2 pin 1 lamp 13W	2	0		0	Upgrade Fixtures	NLED2PPL5W	New LED 2 Pin PL 5 Watt G23 Base (S18403)	2		
172	Library	City of Longview Library Interior Main floor Office corridor	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		
173	Library	City of Longview Library Interior Main floor Office corridor	ET8TPR14232W	Existing T8 Troffer Prismatic Recessed 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		
174	Library	City of Longview Library Interior Main floor Clerks office	ET8TPR4232W	Existing T8 Troffer Prismatic Recessed 2x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	2		
175	Library	City of Longview Library Interior Main floor Custodian closet	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		
176	Library	City of Longview Library Interior Main floor Audiobook area	ET8TCL4232W	Existing T8 Troffer cloud lense recessed 2x4' 2 lamp 32W	7	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	7		
177	Library	City of Longview Library Interior Main floor Front desk area	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	40	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	40		
178	Library	City of Longview Library Interior Main floor Small office	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	4	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	4		
179	Library	City of Longview Library Interior Main floor Magazine room	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	23	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	23		
181	Library	City of Longview Library Interior Main floor New book area	ET8SMTCB4232W	Existing T8 Surface mount troffer center basket 2x4' 2 lamps 32W	5	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	5		
182	Library	City of Longview Library Interior Main floor Small business	ET8SMTCB4232W	Existing T8 Surface mount troffer center basket 2x4' 2 lamps 32W	5	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	5		
184	Library	City of Longview Library Interior Main floor Under stairs mechanical room	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espan Core)	1		
187	Library	City of Longview Library Outside tower mechanical	ET8ST8432W	Existing T8 Strip Surface mount ceiling 8' fixture 4' 4 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT84L8TC	New LED T8 4 Lamp Type C 8' Retrofit (Espan Core)	1		
188	Library	City of Longview Library Exterior Building envelope	ECFWP4PPL42W	Existing CFL Wall Pack surface mount wall 4 Pin PL 42W	4	0	Existing Photocell Sensor	2	Upgrade Fixtures	NLEDWPFC13W	New LED Wallpack Full Cutoff ALO 13 Watt with PC (WPX0)	4	Existing Photocell Sensor	2
190	Library	City of Longview Library Exterior Building envelope	EHPSPTPL175W	Existing High pressure sodium decorative pole top 1 lamp 175W	15	0		0	Upgrade Fixtures	NLEDPT80W	New LED Post top Fixture 80 Watt (AEL 254LP202)	15		
191	Library	City of Longview Library Exterior Building envelope	ECFFLKM4P42W	Existing CFL Flood knuckle mount 4 pin 42W	1	0		0	Upgrade Fixtures	NLEDFLKM9W	New LED Flood Light Knuckle Mounted 9 Watt (ESXF1 ALO)	1		



City of Longview

Agenda Summary

CA 2023-11 LIBRARY OUTDOOR HVAC UNIT

RECOMMENDED ACTION: CONSIDER THE ITEM UNDER NEW BUSINESS

Attachments:

1. CA 2023-11 HVAC Library
2. image001
3. LONGVIEW PUBLIC LIBRARY_(11-6-23)
4. M_SUBMITTAL_PURY-EP216TNU-A_-BS
5. Library

**Application For A
CERTIFICATE OF APPROPRIATENESS
Longview Historic Preservation Commission
Longview, Washington**

Application No. CA 2023-11 Date 11/10/2023

Instructions: Print neatly or type. Submit by the 3rd Thursday of the month in order to be considered at the regular meeting on the 4th Thursday of that month. Insufficient documentation and incomplete applications will be returned or placed on hold. **Please be aware that the issuance of Building Permits is dependant on obtaining a Certificate of Appropriateness.**

Application is hereby made for issuance of a Certificate of Appropriateness (under Longview Ordinance 16.12.060 (1) & (3) for work as described below, and on plans, drawings, photographs, and descriptive material (attached) :

Address of Proposed Work 1600 LOUISIANA STREET - 98632

Name of Building or Site Longview Library

Owner of Building or Site City of LV Phone 360-442-5300

Home Address City Hall - 1525 Broadway Street

Name(s) & Address of Agent Keith Walling

Phone _____

Name & Address of Architect or Designer na

Phone _____

Name & Address of Builder or Contractor Entek Corp. - 1021 Columbia blvd Longviw wa 98632

Phone 360-423-3010

Approximate date of Starting Work Dec 23 Completion Jan 24

Information required for processing of application:

X 1. Plot Plan and /or floor plan

X 2. Two sets of plans and or drawings to scale, of all elevations on all sides affected. Drawings submitted must look professional or be of high quality and detail if applicable to the project, or for structural or substantial alterations.

X 3. Clear photographs of existing structure or property and listed features.

X 4. Samples of material and color (roofing, siding, windows, etc...)

in hand 5. Required permits from Community Development and/or Public Works Departments:

Circle (Building) (Plumbing) (Electrical) (Mechanical) (Demolition) (Windows, Siding) (R-O-W)

DESCRIPTION OF WORK (check appropriate categories):

☐	Historic Restoration	☐	Dwelling	☐	Siding	☐	Fence
☐	Renovation	☒	Commercial	☐	Porch	☐	Wall
☐	New Construction	☐	Garage	☐	Parking	☐	Steps
☐	Demolition	☐	Addition	☐	Walks	☐	Signs
☐	Foundation	☐	Awnings	☐	Windows	☐	Roof
☐	Chimney	☐	Skylights	☐	Color Change	☐	Painting

Itemize and describe all categories of proposed work. Include size, style, material and color: Provide information on the exact products that will be used: (product brochures, specifications, etc.) to assist the Commission in their review. Approved product choices will be stamped, and verified on final inspection.

*****Please attach or submit additional pages as necessary*****

We are only adding outdoor units to roof locatoin, with more than 20 feet set back on sides of the building that are not street facing or original historic property

scope:

adding 2 VRF outdoor Heat Pump units to roof

adding 1 10 ton roof top unit to new roof location on rose garden side - removing old existign duct feeding original library side, we will set a unit that feeds that space with heating the cooling and also remove the existing eye sore ductwork from the roof feeding along the mechanical space to the original library space.

IMPORTANT:

No work may differ from approved Certificate of Appropriateness.

Any proposed Changes must be Reviewed and Approved by the Commission as an addendum to the Certificate of Appropriateness.

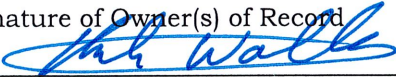
Certificate of Appropriateness is valid for 12 months from date of issuance.

Certificate may be renewed at discretion of the Historic District Commission.

Do you intend to apply for Special Property Tax Valuation for Historic Property Renovation? ☐

Signature of Owner(s) of Record

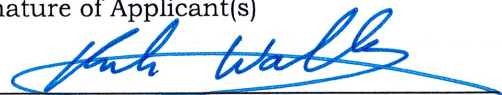
x



x

Signature of Applicant(s)

x



x

Signature of Agent (s)

x

x

Department Use Only

The following information to be completed by the Historic Preservation Commission:

Date application received _____

Date of Public Meeting _____

Inspected prior to hearing _____

Commissioners _____

Inspection upon Completion _____

Commissioners: _____

Planning & Building Dept. _____

The Historic Preservation Commission has made the following determination:

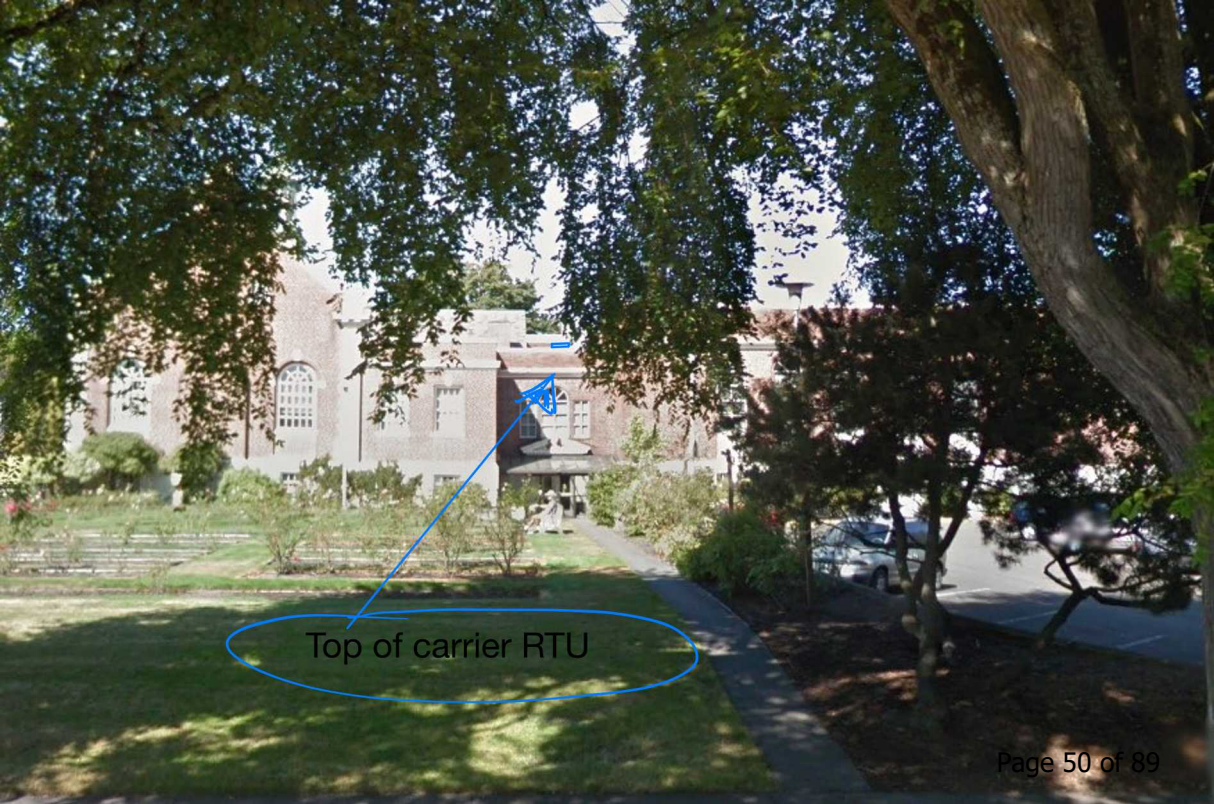
☐ Approved (Conditions) _____

☐ Denied (Findings) _____

Chair, Historic Preservation Commission:

Date:

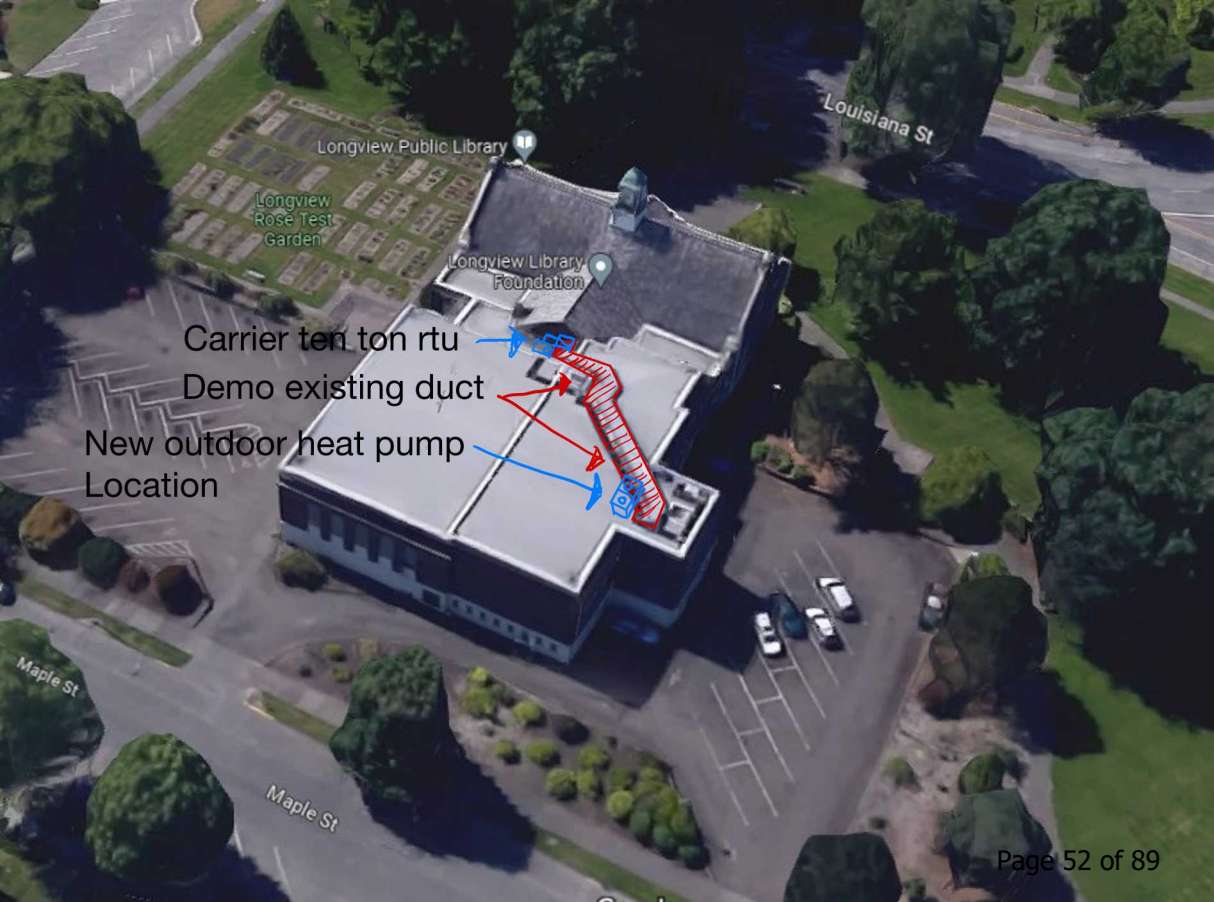
X _____



Top of carrier RTU

Mitsubishi VRF out door units
set back in 20 ft





Longview Public Library

Louisiana St

Longview
Rose Test
Garden

Longview Library
Foundation

Carrier ten ton rtu

Demo existing duct

New outdoor heat pump

Location

Maple St

Maple St

VRF EQUIPMENT SCHEDULE											
SYMBOL	LOCATION	SERVING	CFM	TYPE	HEATING (BTU)	COOLING (BTU)	ELECTRICAL			MANUFACTURER MODEL	NOTES
							MCA	M COP	VOLTS/PH		
FCU-1	SECOND FLOOR MECHANICAL ROOM	UPPER SOUTH OFFICES	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-2	SECOND FLOOR MECHANICAL ROOM	LOWER SOUTH OFFICES	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-3	SECOND FLOOR MECHANICAL ROOM	LONGVIEW ROOM	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-4A	SECOND FLOOR MECHANICAL ROOM	MAIN READING ROOM	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-4B	SECOND FLOOR MECHANICAL ROOM	MAIN READING ROOM	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-5	SECOND FLOOR MECHANICAL ROOM	DISPLAY UNIT	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
FCU-6	SECOND FLOOR MECHANICAL ROOM	NE READING	1400	DUCTED AIR HANDLER	54,000	48,000	5.63	15	208-230/1	mitsubishi / P-VFY-P48NAM-U-E1	1
FCU-7	SECOND FLOOR MECHANICAL ROOM	WORK ROOM	1095	DUCTED AIR HANDLER	40,000	36,000	4.13	15	208-230/1	mitsubishi / P-VFY-P36NAM-U-E1	1
HP-1	BLDG EXTERIOR		N/A	OUTDOOR HEAT PUMP	250,000	240,000	82	125	208-230/3	mitsubishi / P-URY-E245TJTLA	2
FCU-8	SECOND FLOOR MECHANICAL ROOM	BOARD ROOM	735	DUCTED AIR HANDLER	27,000	24,000	3	15	208-230/1	mitsubishi / P-VFY-P24NAM-U-E1	1
FCU-9	THIRD FLOOR MECHANICAL ROOM	BALCONY STACKS	1485	DUCTED AIR HANDLER	60,000	54,000	5.63	15	208-230/1	mitsubishi / P-VFY-P54NAM-U-E1	1
FCU-10	THIRD FLOOR MECHANICAL ROOM	BALCONY NORTH	1400	DUCTED AIR HANDLER	54,000	48,000	5.63	15	208-230/1	mitsubishi / P-VFY-P48NAM-U-E1	1
FCU-11	THIRD FLOOR MECHANICAL ROOM	BALCONY SOUTH	1400	DUCTED AIR HANDLER	54,000	48,000	5.63	15	208-230/1	mitsubishi / P-VFY-P48NAM-U-E1	1
FCU-12	THIRD FLOOR MECHANICAL ROOM	NW UPPER	1400	DUCTED AIR HANDLER	54,000	48,000	5.63	15	208-230/1	mitsubishi / P-VFY-P48NAM-U-E1	1
HP-2	BLDG EXTERIOR		N/A	OUTDOOR HEAT PUMP	243,000	216,000	73	125	208-230/3	mitsubishi / P-URY-E216TJTLA	2

NOTES:

1. PROVIDE MITSUBISHI WALL CONTROLLER
2. OUTDOOR UNIT MOUNTED ON ROOF

BRANCH CONTROLLER SCHEDULE												
SYMBOL	LOCATION	SERVING	CFM	TYPE	HEATING (BTU)	COOLING (BTU)	NUMBER OF PORTS	ELECTRICAL			MANUFACTURER MODEL	NOTES
								MCA	M COP	VOLTS/PH		
BC-1	THIRD FLOOR MECHANICAL ROOM	FCU-1 THRU FCU-8	N/A	BRANCH CONTROLLER	54,000	54,000	8	1	20	208 - 230 / 1	mitsubishi / CMB-P108NU-JA1	1
BC-2	THIRD FLOOR MECHANICAL ROOM	FCU-9 THRU FCU-12	N/A	BRANCH CONTROLLER	54,000	54,000	12	1.4	20	208 - 230 / 1	mitsubishi / CMB-P1012NU-JA1	1

NOTES:
1. PROVIDE 1/2" CONDENSATE PIPING IN ACCORDANCE WITH (2015-IMC-SECTION 307)

HEAT PUMP PACKAGED EQUIPMENT SCHEDULE															
SYMBOL	NOMINAL TONS	TYPE	SERVING	CFM	ESP	PERFORMANCE COOLING (TC / SC) (MBH)	PERFORMANCE HEATING (MBH)	MANUFACTURER MODEL	ELEC. V/PH	MCA	MOCp	SUPPLY FAN HP	NEW UNIT WGT. lbs.	EER	NOTES
RTU-1	10	HEAT PUMP	LIBRARY	4,000	0.7"	125.29 / 93.44	116.4	CARRIER - 50FCQM12A3A5-0A0A0	208 / 3	138	150	1.47	955	11	1.3

NOTES:

1. COOLING CAPACITIES ARE BASED ON DESIGN CONDITIONS

WA STATE OSA TABLE							
ZONE	FLOOR AREA (FT²)	MAX OCCUPANTS	REQUIRED OUTSIDE AIR (CFM / PERSON)	REQUIRED OUTSIDE AIR (CFM / FT²)	REQUIRED OUTSIDE AIR (CFM)	ADJUSTED OUTSIDE AIR REQ'D (CFM)	NOTES
SECOND FLOOR MECHANICAL ROOM AIR HANDLERS							
UPPER SOUTH OFFICES	1000	15	5	0.06	135	169	1
LOWER SOUTH OFFICES	1000	15	5	0.06	135	169	1
LONGVIEW ROOM	720	20	5	0.06	143	179	1
MAIN READING ROOM	1000	10	5	0.06	110	138	1
MAIN READING ROOM	1000	10	5	0.06	110	138	1
DISPLAY UNIT	600	5	5	0.06	61	76	1
NE READING	2800	15	5		243	304	1
WORK ROOM	800	20	5	0.06	148	185	1
BOARD ROOM	225	15	5	0.06	89	111	1
THIRD FLOOR MECHANICAL ROOM AIR HANDLERS							
BALCONY/ STACKS	1460	15	5	0.06	163	203	1
BALCONY/ NORTH	2250	15	5	0.06	210	263	1
BALCONY/ SOUTH	2250	15	5	0.06	210	263	1
NW UPPER	2400	15	5	0.06	219	274	1
TOTAL :	17505				1975	2469	
NOTES:							
1. 100% OUTSIDE AIR INTAKE SHALL WORK IN CONJUNCTION WITH VFD ON RETURN FAN IN BASEMENT TO MAINTAIN BUILDING PRESSURE							
2. EACH AIR HANDLER SHALL HAVE AN ECONOMIZER TO MIX OUTSIDE AIR FROM MECHANICAL ROOM RETURN PLENUM.							



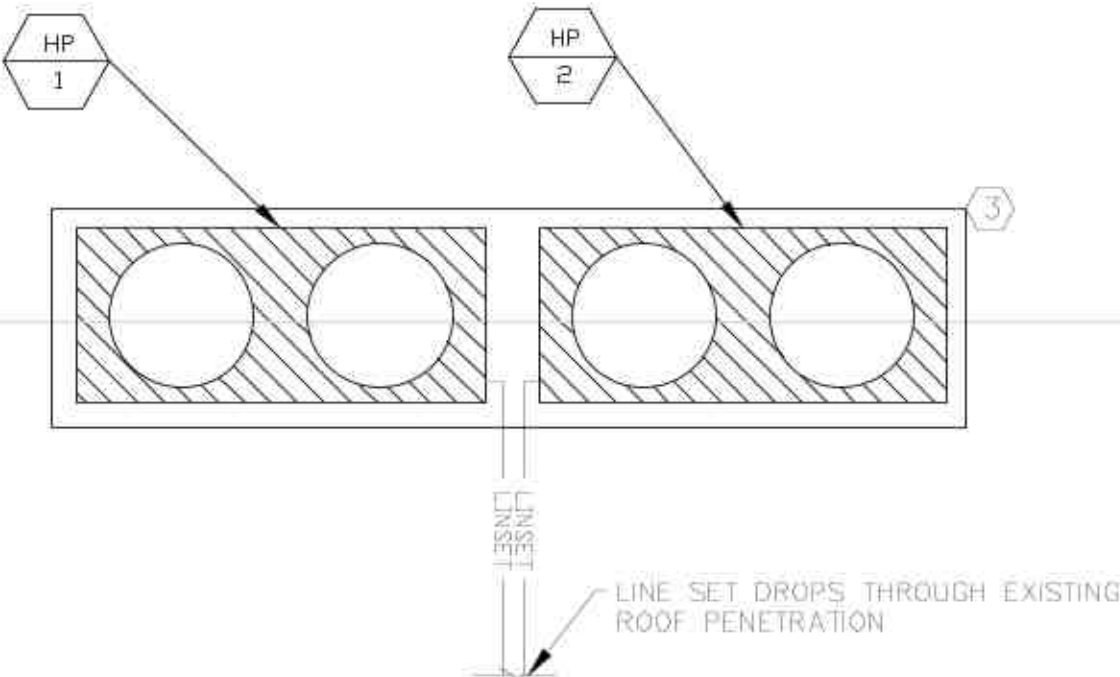
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JOB# 23253
1600 Louisiana St, Longview, WA 98604

8/22/23

SHEET NOTES:

- 1
- ROOFTOP UNIT INSTALL REPLACES EXISTING SPLIT SYSTEM FED FROM ORIGINAL CHILLER DESIGN.
- 2
- EXTERNAL EXISTING ROOFTOP DUCTWORK (NOT SHOWN) SHALL BE REMOVED. EXISTING DUCTWORK INTO BUILDING SHALL BE REUSED WITH NEW ROOFTOP UNIT INSTALL.
- 3
- ROOFTOP VRF UNITS TO SERVE FAN COIL UNITS IN MECHANICAL ROOMS BELOW.

NOT FOR CONSTRUCTION

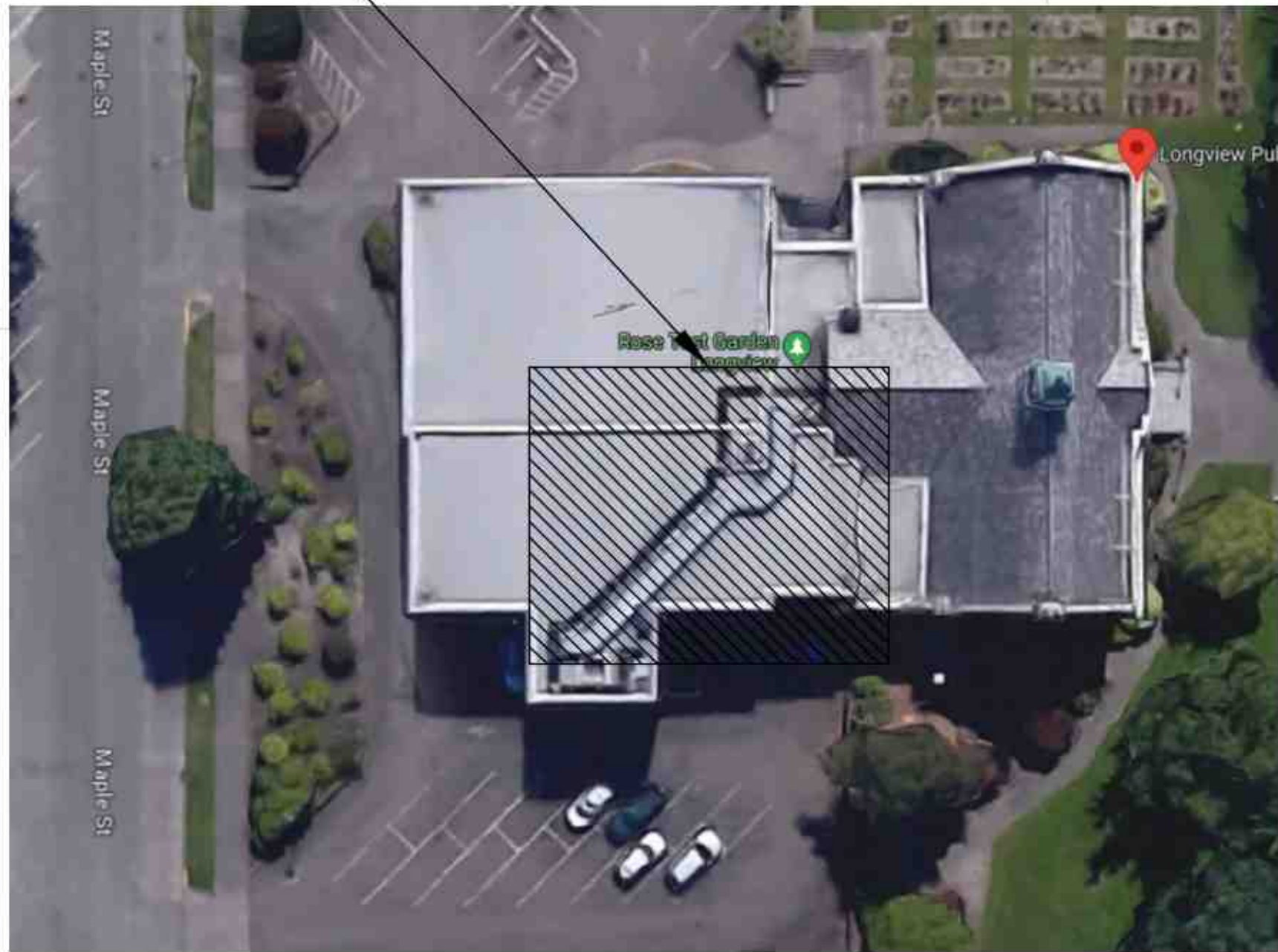


1

M1

HVAC ROOF PLAN

3/8"=1'0"



2

M1

SITE VICINITY MAP

NOT TO SCALE

ENTEK CORPORATION
Quality Climate Conditioning For Business and Industry
7316 N.E. 47th AVE. VANCOUVER, WA 98681
Phone: (360)-883-5462 Fax: (360)-883-5465
CONTACT: Ian Casey

PROJECT

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1600 Louisiana St, Longview, WA 98632

DATE

8/22/23

REVISION

SHEET
M1

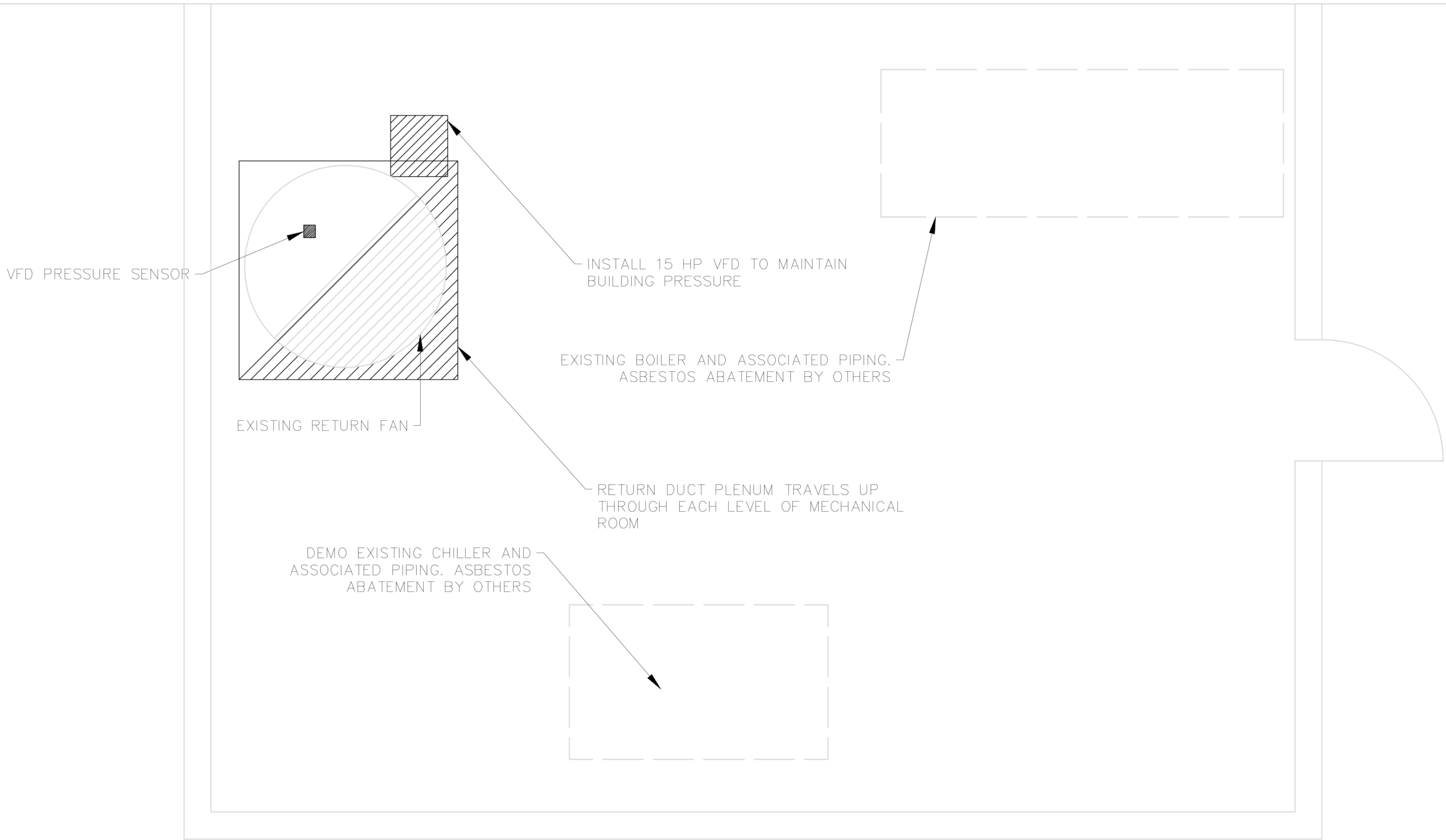
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1
M2

FIRST FLOOR MECH ROOM
1/2"=1'0"



NOT FOR CONSTRUCTION



- GENERAL NOTES:
- 1) MAINTAIN BUILDING PRESSURE AT 0.2 IN W.C. WITH PRESSURE SENSOR IN RETURN DUCT.
 - 2) MOTORIZED DAMPERS SHALL BE INSTALLED IN RELIEF DUCT AND RETURN DUCT TO MAINTAIN PRESSURE IN BUILDING.

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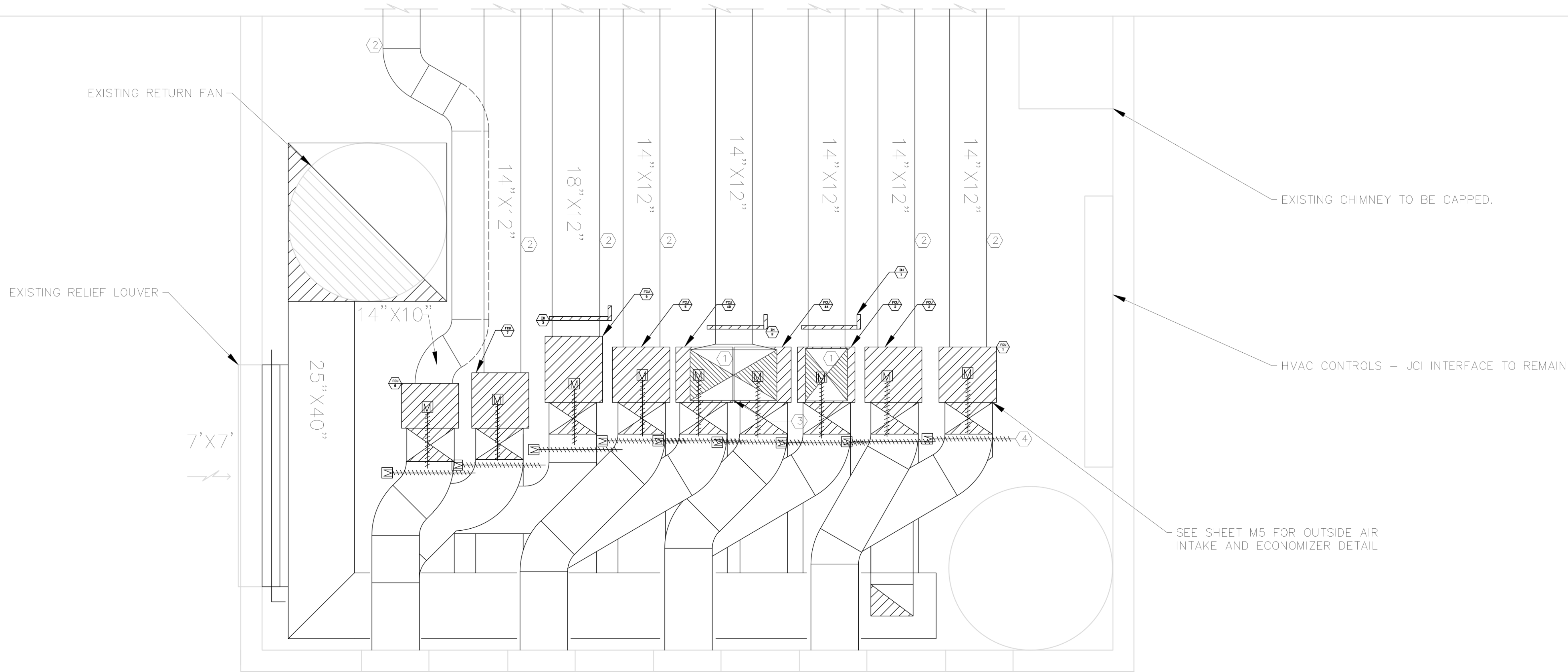
SHEET
M2

DATE
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ENTEK CORPORATION
Quality Climate Conditioning For Business and Industry
7316 N.E. 47th AVE. VANCOUVER, WA 98661
Phone (360)-883-5462 Fax (360)-883-5465
CONTACT: Ian Casey



- GENERAL NOTES:

 - 1) MAINTAIN BUILDING PRESSURE AT 0.2 IN W.C. WITH PRESSURE SENSOR IN RETURN DUCT.
 - 2) MOTORIZED DAMPERS SHALL BE INSTALLED IN RELIEF DUCT AND RETURN DUCT TO MAINTAIN PRESSURE IN BUILDING.
- SHEET NOTES:

 - ① EXISTING DUCTWORK TRAVELS UPWARD INTO THIRD FLOOR THEN TURNS INTO MAIN BUILDING
 - ② EXISTING DUCTWORK TURNS DIRECTLY INTO MAIN BUILDING FROM SECOND FLOOR
 - ③ DUCTWORK FROM TWINNED FAN COIL UNITS MERGE IN THIRD FLOOR SPACE WITH DUCT HEATER
 - ④ SEE SHEET M5 FOR ECONOMIZER CONTROL FOR OUTSIDE AIR INTAKE MIXING.

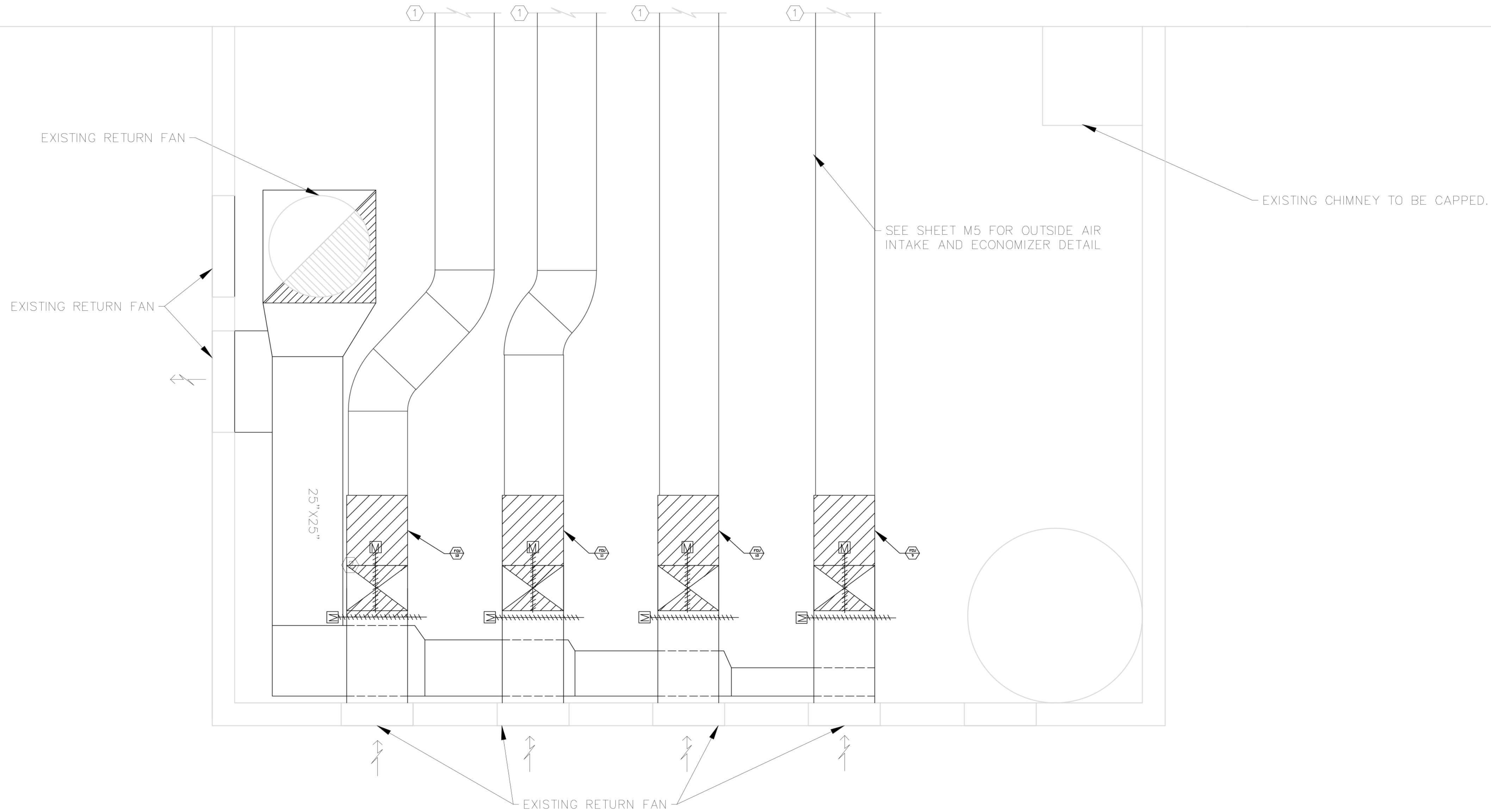
NOT FOR CONSTRUCTION

1
M4

THIRD FLOOR MECH ROOM
1/2"=1'0"



NOT FOR CONSTRUCTION



GENERAL NOTES:

- 1) MAINTAIN BUILDING PRESSURE AT 0.2 IN W.C. WITH PRESSURE SENSOR IN RETURN DUCT.
- 2) MOTORIZED DAMPERS SHALL BE INSTALLED IN RELIEF DUCT AND RETURN DUCT TO MAINTAIN PRESSURE IN BUILDING.

SHEET NOTES:

- ① EXISTING DUCTWORK TURNS DIRECTLY INTO MAIN BUILDING FROM SECOND FLOOR
- ② SEE SHEET M5 FOR ECONOMIZER CONTROL FOR OUTSIDE AIR MIXING. OUTSIDE AIR INTAKE LOCATED ON SECOND FLOOR, DUCTED INTO THIRD FLOOR.

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Quality Climate Conditioning For Business and Industry
7316 N.E. 47th AVE. VANCOUVER, WA 98661
Phone (360)-883-5462 Fax (360)-883-5465
CONTACT: Ian Casey

PROJECT

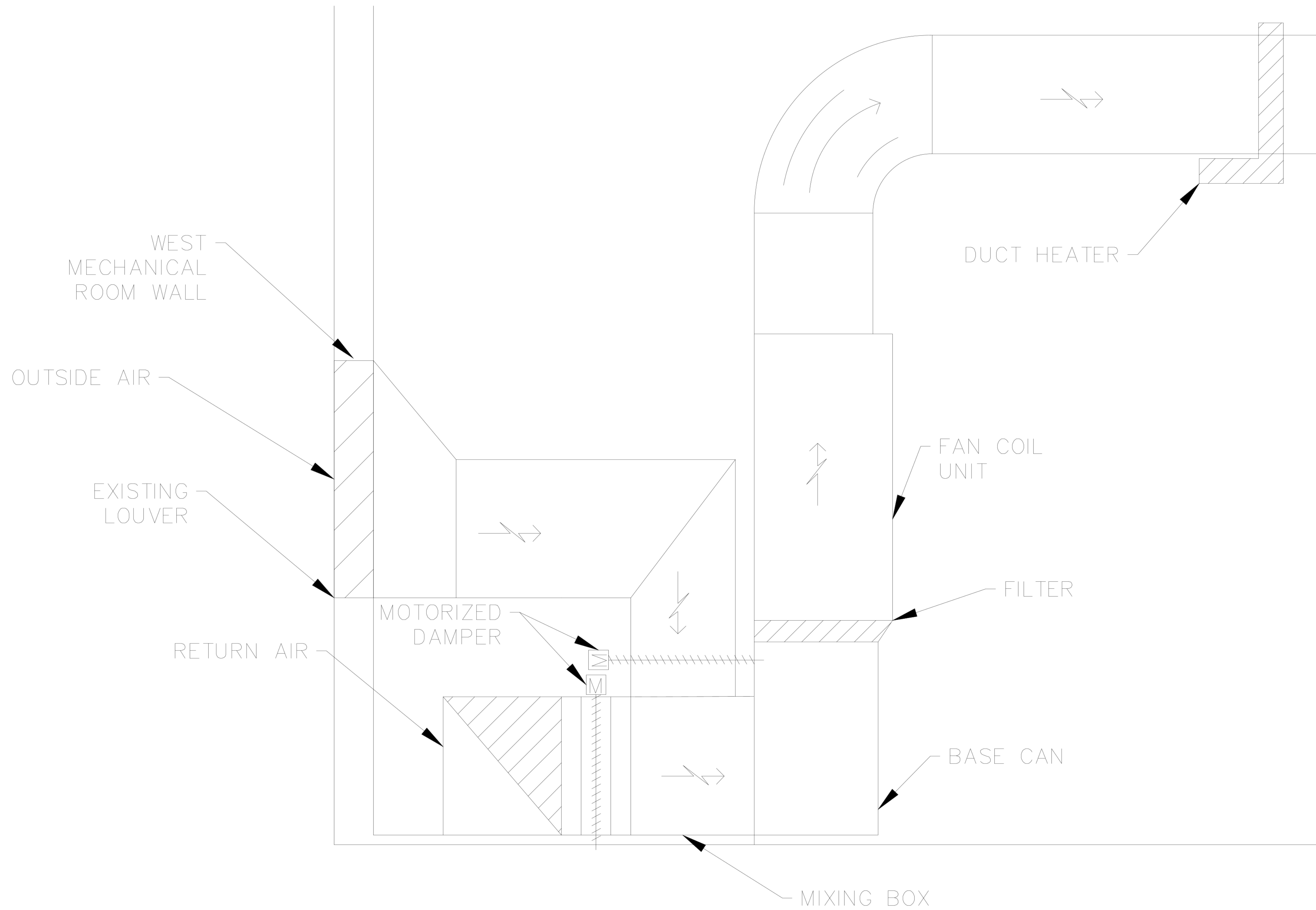
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DATE

8/22/23

REVISION

SHEET
M4



- GENERAL NOTES:
- 1) MAINTAIN BUILDING PRESSURE AT 0.2 IN W.C. WITH PRESSURE SENSOR IN RETURN DUCT.
 - 2) MOTORIZED DAMPERS SHALL BE INSTALLED IN RELIEF DUCT AND RETURN DUCT TO MAINTAIN PRESSURE IN BUILDING.

NOT FOR CONSTRUCTION

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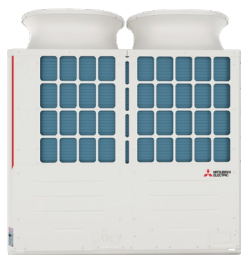
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M5

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Job Name:

System Reference:

Date:

208/230V OUTDOOR VRF HEAT RECOVERY SYSTEM**ACCESSORIES**

- ✓ BC Controller (Required) for details see BC Controller Submittals
- Joint Kit for details see Pipe Accessories Submittal
- Low Ambient Kit for details see Low Ambient Kit Submittal
- Snow/Hail Guards Kit for details see Snow/Hail Guards Kit Submittal

Specifications			System
Unit Type			PURY-EP216TNU-A(-BS)
Cooling Capacity (Nominal)		BTU/H	216,000
Heating Capacity (Nominal)		BTU/H	243,000
Guaranteed Operating Range	Cooling	°F [°C]	23~126 [-5.0~52.0]
	Heating	°F [°C]	-13~60 [-25.0~15.5]
Extended Operating Range	Heating	°F [°C]	-27.4~60 [-33.0~15.5]
External Dimensions (H x W x D)		In. [mm]	71-5/8 x 68-15/16 x 29-3/16 [1,818 x 1,750 x 740]
Net Weight		Lbs. [kg]	887 [402]
External Finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 5Y 8/1]
Electrical Power Requirements	Voltage, Phase, Hertz, Power Tolerance		208/230V, 3-phase, 60 Hz, ±10%
Minimum Circuit Ampacity		A	73.0/67.0
Maximum Overcurrent Protection		A	125/110
Recommended Fuse Size		A	90/90
Recommended Minimum Wire Size		AWG [mm]	2/2 [33.6/33.6]
SCCR		kA	5
Refrigerant Piping Diameter	Liquid (High Pressure)	In. [mm]	7/8 [22.2] Braze (Pipe Size Dependent on Piping Length)
	Gas (Low Pressure)	In. [mm]	1-1/8 [28.58] Braze
Max. Total Refrigerant Line Length		Ft.	2,460
Max. Refrigerant Line Length (Between ODU & IDU)		Ft.	541
Max. Control Wiring Length		Ft.	1,640
Indoor Unit Connectable	Total Capacity		50.0~150.0% of outdoor unit capacity
	Model/Quantity		P04~P96/2.0~50.0
Sound Pressure Levels		dB(A)	66.5/67.5
Sound Power Levels		dB(A)	85.5/86.5
FAN ⁴	Type x Quantity		Propeller fan x 2
	Fan Motor Output	kW	0.92+0.92
	Airflow Rate	CFM	14,100
	External Static Pressure	In. WG	Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG
Compressor Operating Range			15.0% to 100.0%
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1
Compressor Motor Output		kW	15.8
Refrigerant	Type x Original Charge		R410A x 26.0 lbs + 1.0 oz [11.8 kg]
Protection Devices	High Pressure Protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit (Comp./Fan)		Over-current protection

NOTES:

Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)

¹Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region

²For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal

³When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating

⁴Unit will continue to operate in extended operating range, but capacity is not guaranteed

OUTDOOR UNIT: PURY-EP216TNU-A(-BS) – DIMENSIONS

PURY-EP192, 216, 240TNU-A(-BS)

Unit: mm (in.)

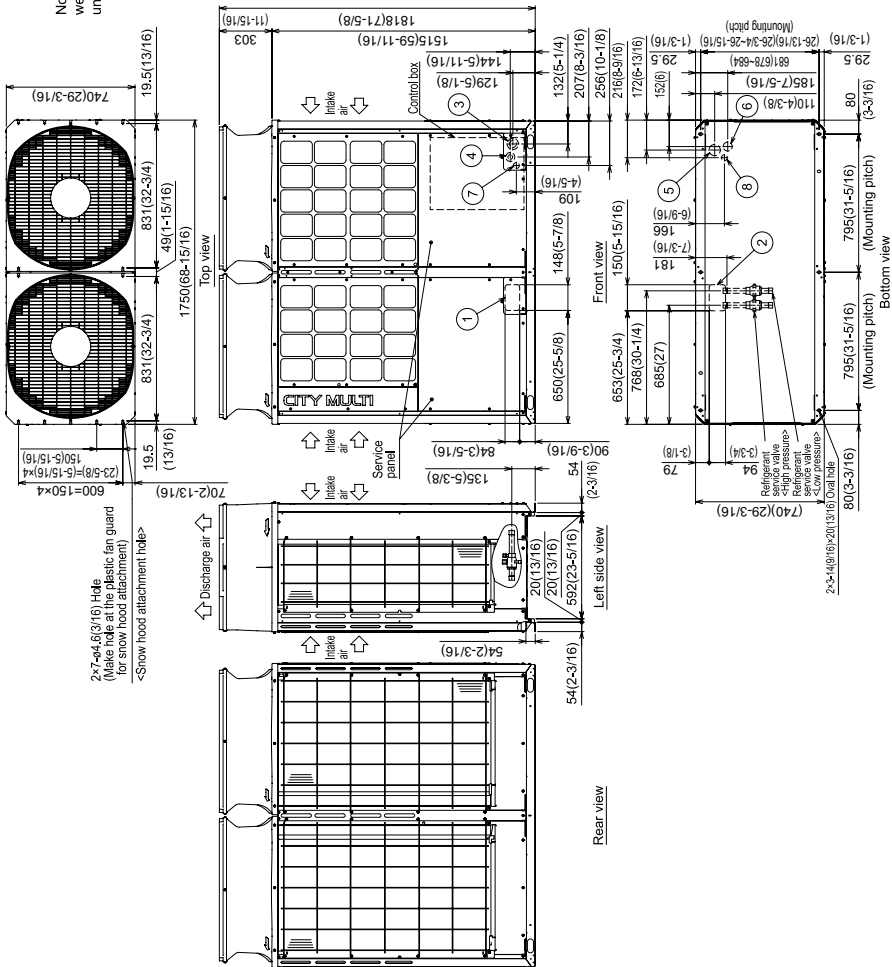
Note 1. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications				
Model	Diameter			
	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
EP192	ø2.27(1/8) Brazed *1	ø3.38(1/4) Brazed	ø2.58(1/8)	ø2.58(1/8)
EP216	ø2.27(1/8) Brazed *1 *2	ø3.38(1/4) Brazed	ø2.58(1/8)	ø2.58(1/8)
EP240	ø2.27(1/8) Brazed *1 *2	ø3.38(1/4) Brazed *1	ø2.58(1/8)	ø2.58(1/8)

***1** Connect the refrigerant pipe to the service valve according to the Installation Manual.

When the piping length is 65m(213ft) or longer, use the $\varnothing 28.58(1-1/8)$ pipe for the part that exceeds 65m(213ft).

NO.	Usage	Specifications
①	Front through hole	1445±7/8 × 94(35±16) Knockout hole
②	Bottom through hole	1510±5(15±16) × 94(35±16) Knockout hole
③	For pipes	662(71-107) × 634(51-138) Knockout hole
④	Front through hole	647(71-114) × 612(27-178) Knockout hole
⑤	For wires	657(2-136) × 612(27-178) Knockout hole
⑥	Bottom through hole	657(2-136) Knockout hole
⑦	Bottom through hole	652(2-116) Knockout hole
⑧	Front through hole	634(1-36) Knockout hole
⑨	For transmission cables	634(1-36) Knockout hole



NOTES:

SEACOAST PROTECTION

Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.

Standard: Salt Spray Test Method - no unusual rust development to 480 hours.

Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.

1340 Satellite Boulevard Suwanee, GA 30024

Toll Free: 800-433-4822 www.mehvac.com



FORM# PURY-EP216TNU-A - 202212

Specifications are subject to change without notice.

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Prepared By:

09/18/2023
02:27PM

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Certified Drawing	4
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Unit Feature Sheet	10
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PHP

**Tag Cover Sheet
Unit Report
Certified Drawing
Performance Report
Unit Feature Sheet
Spec Sheet**

Unit Report For PHP

Project: Longview Library
Prepared By:

09/18/2023
02:27PM

Unit Parameters

Unit Model: 50FCQM12A3A5-0A0A0
Unit Size: 12 (10 Tons)
Volts-Phase-Hertz: 208-3-60
Heating Type: Heat Pump
Heat Control: Two-Stage Cooling / One Circuit
Duct Cfg: Horizontal Supply / Vertical Return

Dimensions (ft. in.) & Weight (lb.) ***

Unit Length: 7' 4.125"
Unit Width: 4' 11.5"
Unit Height: 4' 1.375"

*** Weights and Dimensions are approximate. Weight does not include roof curbs, unit packaging, field installed accessories or factory installed options. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions and weights, refer to appropriate product data catalog.

Base Unit Weight (Does not include any accessories):

955 lb

Lines and Filters

Return Air Filter Type: Throwaway
Return Air Filter Quantity: 4
Return Air Filter Size: 20 x 20 x 2

Selection includes construction throwaway filter into the base fan curve.

Unit Configuration

High Static(EcoBlue)
Al/Cu - Al/Cu
Base Electromechanical Controls
Standard Packaging

Warranty Information

5-Year electric heaters (STD.)
1-Year parts (STD.)
5-Year Compressor (std.)

No optional warranties were selected.

NOTE: Please see Warranty Catalog 500-089 for explanation of policies and ordering methods.

Ordering Information

Part Number	Description	Quantity
50FCQM12A3A5-0A0A0	Rooftop Unit	1
	Base Unit	
	High Static(EcoBlue)	
	Electromechanical control, No intake or exhaust option. Will allow for use of field installed econom	
Field Installed Accessories		
CRECOHRN001A00	EconoMi\$er X	1
CRHEATER415A00	Electric Heater	1
CRSINGLE051A00	Single Point Kit	1

Certified Drawing for PHP

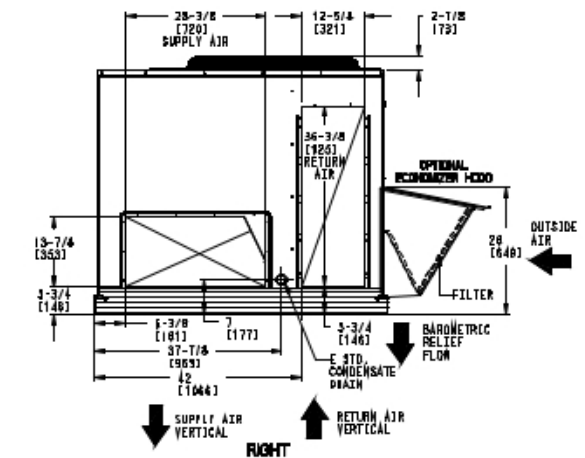
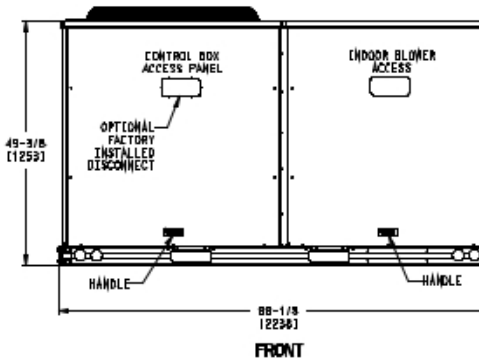
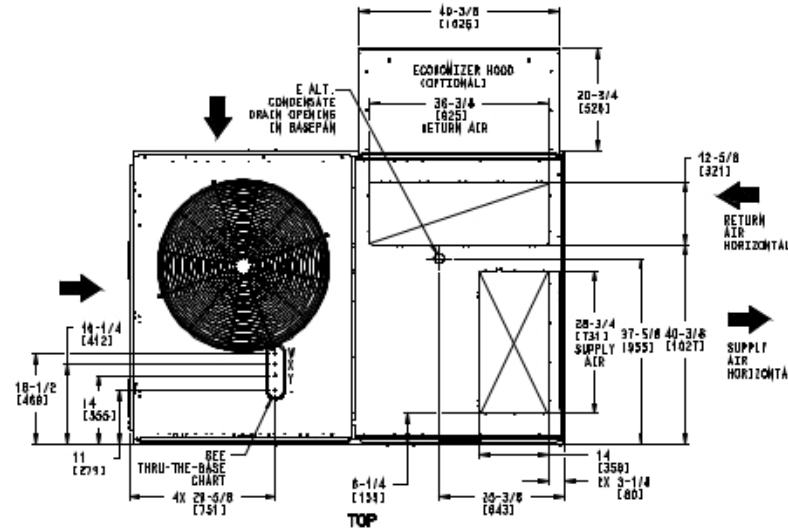
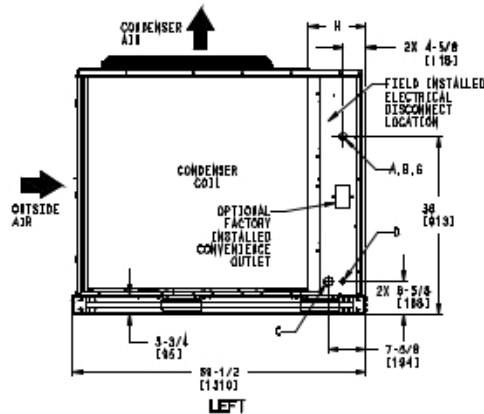
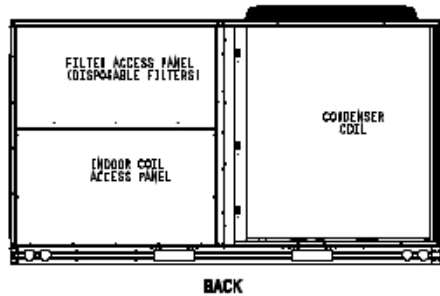
Project: Longview Library
Prepared By:

09/18/2023
02:27PM

NOTES:

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.
2.  CENTER OF GRAVITY
3.  DIRECTION OF AIR FLOW
4.  ALL VIEW DRAWN USING 3RD ANGLE

UNIT	OUTDOOR COIL TYPE	H
50FCQ-12	RTPF	15 7/8 [403]
RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)		



THIS DRAWING IS THE PROPERTY OF CARRIER CORPORATION. IT IS LOANED TO THE USER UNDER THE CONDITION THAT IT WILL NOT BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF CARRIER CORPORATION.

REVISIONS OF THESE DRAWINGS OR DOCUMENTS DOES NOT CONSTITUTE PART PERFORMANCE OR ACCEPTANCE OF CONTRACT.

CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2 1/2" [64] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [51] DIA GAGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
G	2" [51] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTHW002401			
	THREADED CONDUIT SIZE	WIRE USE	RED'D HOLE SIZES (MAX.)
R	1/2"	ACC.	7/8" [22.3]
X	1/2"	24V	7/8" [22.3]
Y	1 1/4" [32]	POWER	1 3/4" [44.4]
FOR "THRU-THE-BASE" FACTORY OPTION, FITTINGS FOR ONLY X & Y ARE PROVIDED			

3TC CLASSIFICATION U.S. ECCN: NSR	SHEET 1 OF 3	DATE 04/01/22	SUPERCEDS -	50FCQ 12 SINGLE ZONE ELECTRICAL HEAT PUMP	48TN009024	REV -
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Certified Drawing for PHP

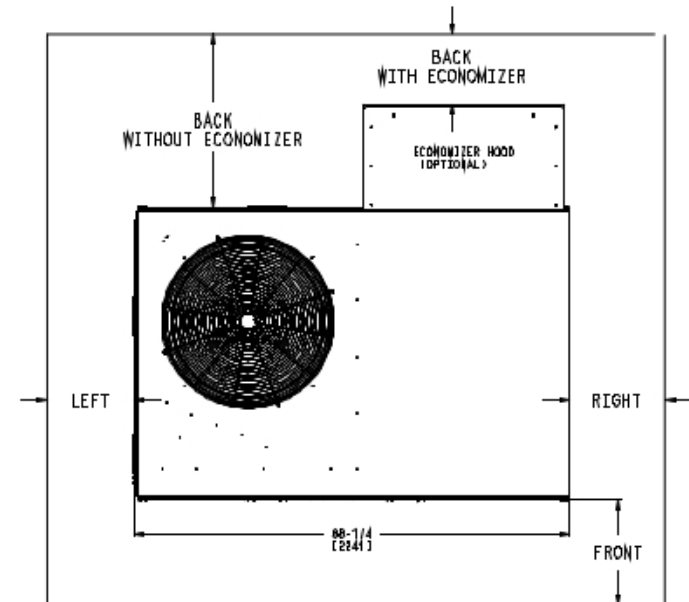
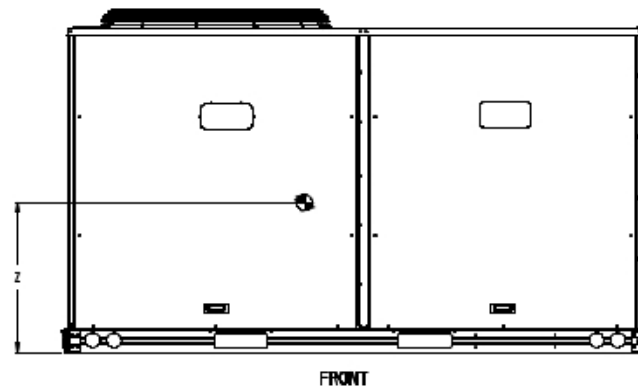
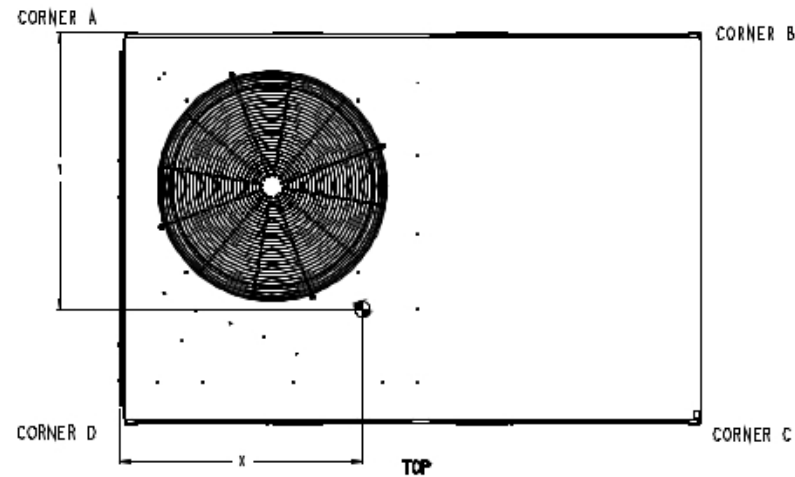
Project: Longview Library
Prepared By:

09/18/2023
02:27PM

UNIT	OUTDOOR COIL TYPE	STD. UNIT WEIGHT***		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		
		LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	Z
50FCQ-12	RTPF	955	433	190	86	243	110	293	133	229	104	48 1/2 (1193)	32 1/2 (828)	19 1/8 (489)

RTPF - ROUND TUBE, PLATE FIN (COPPER/ALUM)

*** STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



NOTE:

1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

SURFACE	CLEARANCE	
	SERVICE WITH CONDUCTIVE BARRIER	SERVICE WITH NONCONDUCTIVE BARRIER
FRONT	48 (1219mm)	36 (914mm)
LEFT	48 (1219mm)	42 (1067mm)
BACK W/O ECON	48 (1219mm)	42 (1067mm)
BACK W/ECON	36 (914mm)	36 (914mm)
RIGHT	36 (914mm)	36 (914mm)
TOP	72 (1829mm)	72 (1829mm)

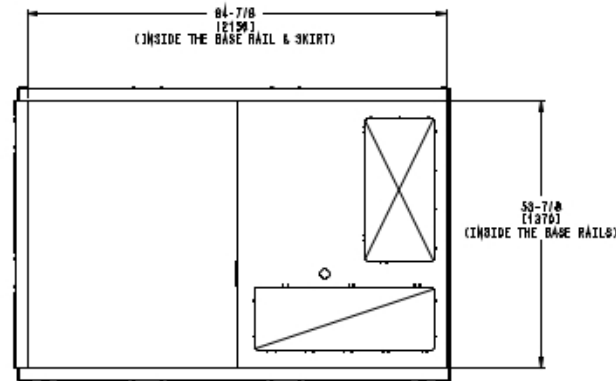
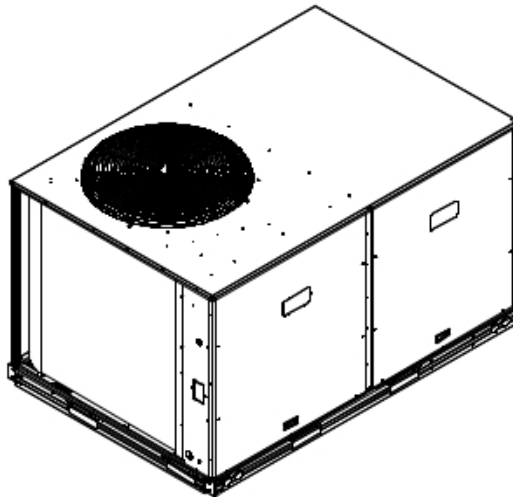
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Certified Drawing for PHP

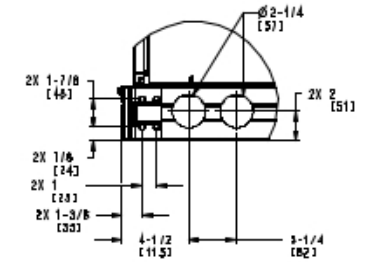
Project: Longview Library
Prepared By:

09/18/2023
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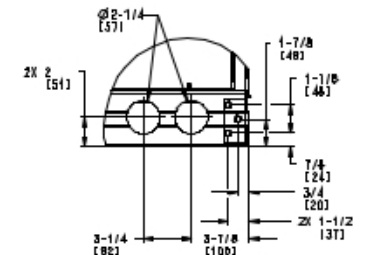
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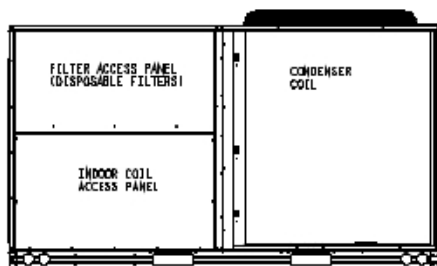
INSIDE BASERAIL DIMENSIONS
BOTTOM



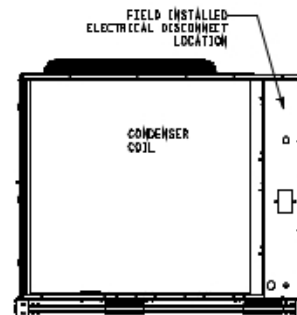
DETAIL B
TYP 2 PLCS



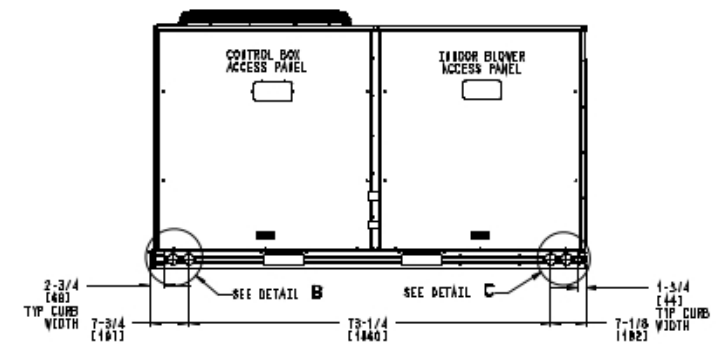
DETAIL C
TYP 2 PLCs



BACK



LEFT



FRONT

JTC CLASSIFICATION U.S. ECN: NSR	SHEET 3 OF 3	DATE 04/01/22	SUPERCEDES -	50FC@ 12 SINGLE ZONE ELECTRICAL HEAT PUMP	48TN000024	REV -
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Performance Summary For PHP

Project: Longview Library
Prepared By:

09/18/2023
02:27PM

Part Number:50FCQM12A3A5-0A0A0

ARI EER:.....11.00
IEER:.....15.0

Base Unit Dimensions

Unit Length:.....88.1 in
Unit Width:.....59.5 in
Unit Height:.....49.4 in

Base Unit Weight (Does not include any accessories):.....955 lb

Unit

Unit Voltage-Phase-Hertz:.....208-3-60
Air Discharge:.....Horizontal
Fan Drive Type:.....Vane Axial
Actual Airflow:.....4000 CFM
Site Altitude:.....0 ft

Cooling Performance

Condenser Entering Air DB:.....95.0 F
Evaporator Entering Air DB:.....80.0 F
Evaporator Entering Air WB:.....67.0 F
Entering Air Enthalpy:.....31.44 BTU/lb
Evaporator Leaving Air DB:.....58.4 F
Evaporator Leaving Air WB:.....57.1 F
Evaporator Leaving Air Enthalpy:.....24.48 BTU/lb
Gross Cooling Capacity:.....125.29 MBH
Gross Sensible Capacity:.....93.44 MBH
Compressor Power Input:.....8.85 kW
Coil Bypass Factor:.....0.045

Heating Performance

Outdoor Ambient Temperature:.....47.0 F
Entering Air Indoor Coil DB:.....70.0 F
Leaving Air Indoor Coil DB:.....96.9 F
Total Heating Capacity:.....116.40 MBH
Integrated Heating Capacity:.....116.40 MBH
Heating Power Input:.....9.44 kW
High Temperature COP:.....3.40
Low Temperature COP:.....2.25
Electric Heating Capacity:.....24.00 kW
Unit Leaving Air Temp:.....115.9 F

Supply Fan

External Static Pressure:.....0.70 in wg
Options / Accessories Static Pressure
Electric Heaters:.....0.08 in wg
Application External Static (ESP + Unit Opts/Acc.):.....0.78 in wg
Fan RPM:.....1636
Fan Power:.....1.47 BHP
NOTE:.....Selected IFM RPM Range: 990 - 2200

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data

Voltage Range:.....187 - 253
Compressor #1 RLA:.....15.6
Compressor #1 LRA:.....110
Compressor #2 RLA:.....15.6
Compressor #2 LRA:.....110

Performance Summary For PHP

Project: Longview Library
Prepared By:

09/18/2023
02:27PM

Actual Electric Heater kW:.....24
Electric Heater FLA:.....66.7
Indoor Fan Motor Type:.....HIGH
Indoor Fan Motor FLA (Total):.....12.6
Power Supply MCA:.....139
Power Supply MOCP (Fuse or HACR):.....150
Disconnect Size FLA:.....136
Disconnect Size LRA:.....312
Electrical Convenience Outlet:.....None
Outdoor Fan [Qty / FLA (ea)]:.....1 / 7.4
Electric Heater Part Number:.....415A
Electric Heater Number of Stages:.....2

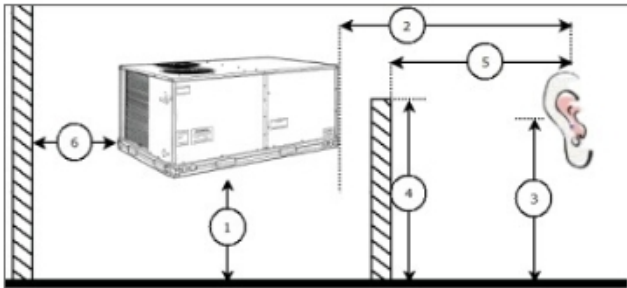
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	89.9	50.7	88.1
125 Hz	85.3	79.6	90.0
250 Hz	80.7	74.7	85.9
500 Hz	78.3	70.8	83.0
1000 Hz	79.4	70.0	81.6
2000 Hz	75.7	64.2	78.5
4000 Hz	69.9	54.9	76.4
8000 Hz	61.9	48.4	75.5
A-Weighted	83.2	74.1	87.0

Advanced Acoustics



Advanced Acoustics Parameters

- Unit height above ground:.....30.0 ft
- Horizontal distance from unit to receiver:.....50.0 ft
- Receiver height above ground:.....5.7 ft
- Height of obstruction:.....0.0 ft
- Horizontal distance from obstruction to receiver:.....0.0 ft
- Horizontal distance from unit to obstruction:.....0.0 ft

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	88.1	90.0	85.9	83.0	81.6	78.5	76.4	75.5	94.0 Lw
B	61.9	73.9	77.3	79.8	81.6	79.7	77.4	74.4	87.0 LwA

Performance Summary For PHP

Project: Longview Library
Prepared By:

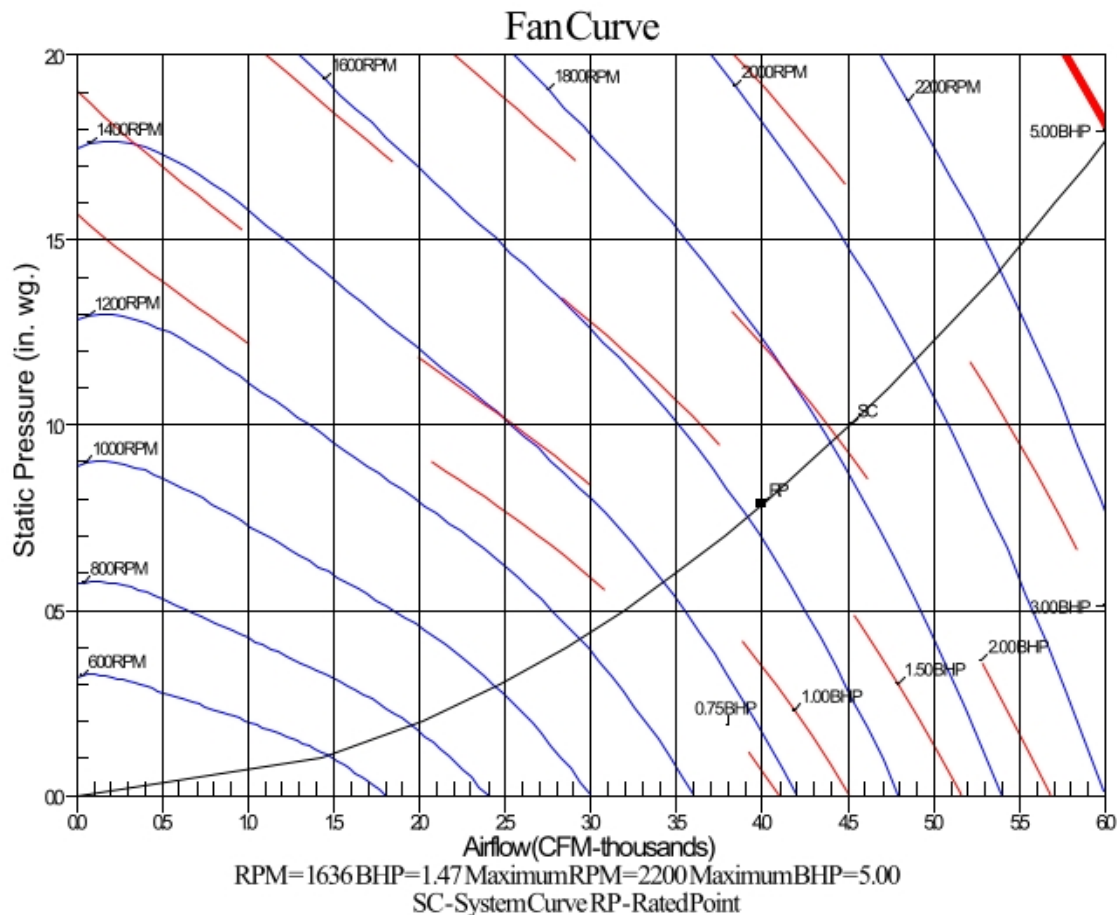
09/18/2023
02:27PM

C	55.7	57.6	53.5	50.6	49.2	46.1	44.0	43.1	61.6	Lp
D	29.5	41.5	44.9	47.4	49.2	47.3	45.0	42.0	54.6	LpA

Legend

- A Sound Power Levels at Unit's Acoustic Center, Lw
- B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
- C Sound Pressure Levels at Specific Distance from Unit, Lp
- D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



Unit Feature Sheet for PHP

Project: Longview Library
Prepared By:

09/18/2023
02:27PM



– 50FCQ

PACKAGED ROOFTOP HEAT PUMP UNIT \$
15.0 IEER 7.5, 8.5, 10, 12.5 TON \$



ecoblu[®] technology

**ASHRAE
90.1
COMPLIANT**

Puron



WEATHERMAKER[®] SERIES

50FCQ units are single packaged heat pump units with field installed electric heaters. The units are pre-wired and charged with Puron (R-410) refrigerant and factory tested in both heating and cooling modes. All models use two stage cooling capacity control with a full active evaporator coil and new EcoBlue[™] direct drive ECM indoor fan system.

Approved and certified by:



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program for verification of certification for individual products. go to www.ahridirectory.org.

STANDARD FEATURES INCLUDE:

- Rated in accordance with AHRI Standards 340/360
- Puron (R-410A) HFC refrigerant
- Two-stage cooling capacity control on all models
- IEER's of 15.0, COP's up to 3.4
- Exceeds current DOE IEER efficiencies while meeting DOE's new stringent 2023 IEER efficiency requirements
- 2023 DOE, ASHRAE 90.1, and IECC energy compliant
- New Direct Drive – EcoBlue[™] Technology indoor fan system uses Vane Axial fan design and electronically commutated motor. Indoor fan motor also delivers Staged Air Volume (SAV) fan speed control.
- Non-corrosive composite condensate pan in accordance with ASHRAE 62 Standard, sloping design; side or center drain
- TXV refrigerant metering system on all models
- Cooling operating range up to 125°F (52°C), and down to 40°F (4°C). Low Ambient kits allows cooling operation down to 0°F (-18°C) except on 12 size with standard operation down to 0°F (-18°C)
- Pre-painted exterior panels and primer-coated interior panels tested to 500 hours salt spray protection
- New Unit Control Board with intuitive quick fan speed adjustment
- Low pressure, high pressure switch protection

MAINTENANCE FEATURES:

- Access panels with easy grip handles
- Innovative easy starting, no-strip screws on unit access panels
- Two-inch disposable return air filters and Tool-less filter access door
- New slide out - Vane Axial evaporator-fan system has no fan bolts, pulleys, blower shaft and blower bearings

INSTALLATION FEATURES:

- Thru-the-bottom power entry capability
- Single point electric connections
- Full perimeter base rail with built-in rigging adapters and fork slots
- Field convertible from vertical to horizontal airflow. 14 size requires a special supply duct cover kit.

STANDARD WARRANTY:

- 5- year electric heaters
- 5-year compressor
- 3-year System/Va[™]
- 1-year parts
- Many optional upgrades also available

OPTION \$ INCLUDE BUT ARE NOT LIMITED TO:

- Intelligent System/Va communicating controls
- Supply and Return Air Smoke Detectors, high static motors
- Lowvired condenser coil guards
- Disconnect switch and convenience outlet options
- Corrosion resistant coil coating.
- MERV-13, 4" Return Air Filters
- Hinged access panels
- Integrated economizer system. Low and Ultra Low Leak versions
- Phase monitor and condensate overflow protection
- High SCOR Protection

For a complete list of options and accessories refer to Product Data

Spec Sheet for PHP

Project: Longview Library
Prepared By:

09/18/2023
02:27PM



City of Longview

Agenda Summary

CA 2023-12 WOMENS CLUB LIGHTING

RECOMMENDED ACTION: CONSIDER THE ITEM UNDER NEW BUSINESS

Attachments:

1. Signed HPC Cert of Appropriateness
2. WOMENS CLUB SUBMITTAL PACKAGE
3. Womens club plans
4. Womens Club Lighting Photos
5. Longview Womens Club Lighting Retrofit Spreadsheet

Application For A
CERTIFICATE OF APPROPRIATENESS
Longview Historic Preservation Commission
Longview, Washington

Application No. CA 2023-12

Date 11/16/23

Instructions: Print neatly or type. Submit by the 3rd Thursday of the month in order to be considered at the regular meeting on the 4th Thursday of that month. Insufficient documentation and incomplete applications will be returned or placed on hold. **Please be aware that the issuance of Building Permits is dependant on obtaining a Certificate of Appropriateness.**

Application is hereby made for issuance of a Certificate of Appropriateness (under Longview Ordinance 16.12.060 (1) & (3) for work as described below, and on plans, drawings, photographs, and descriptive material (attached) :

Address of Proposed Work 835 21st Ave. Longview, WA 98632

Name of Building or Site Longview Woman's Club Building

Owner of Building or Site City of Longview Phone 360-442-5600

Home Address 254 Oregon Way, Longview, WA 98632

Name(s) & Address of Agent Keith Walling

Phone (360) 442-5600

Name & Address of Architect or Designer N/A

Phone _____

Name & Address of Builder or Contractor Ameresco Inc.

222 Willims Ave South, Suite 100, Renton, WA 98057 Phone (206) 708-2830

Approximate date of Starting Work January 2024 Completion June 2024

Information required for processing of application:

- X 1. Plot Plan and /or floor plan
- _____ 2. Two sets of plans and or drawings to scale, of all elevations on all sides affected. Drawings submitted must look professional or be of high quality and detail if applicable to the project, or for structural or substantial alterations.
- X 3. Clear photographs of existing structure or property and listed features.
- X 4. Samples of material and color (roofing, siding, windows, etc...)
- N/A 5. Required permits from Community Development and/or Public Works Departments:
- Circle (Building) (Plumbing) (Electrical) (Mechanical) (Demolition) (Windows, Siding) (R-O-W)

DESCRIPTION OF WORK (check appropriate categories):

☐ Historic Restoration	☐ Dwelling	☐ Siding	☐ Fence
☒ Renovation	☐ Commercial	☐ Porch	☐ Wall
☐ New Construction	☐ Garage	☐ Parking	☐ Steps
☐ Demolition	☐ Addition	☐ Walks	☐ Signs
☐ Foundation	☐ Awnings	☐ Windows	☐ Roof
☐ Chimney	☐ Skylights	☐ Color Change	☐ Painting

Itemize and describe all categories of proposed work. Include size, style, material and color: Provide information on the exact products that will be used: (product brochures, specifications, etc.) to assist the Commission in their review. Approved product choices will be stamped, and verified on final inspection.

*****Please attach or submit additional pages as necessary*****

IMPORTANT:

No work may differ from approved Certificate of Appropriateness.

Any proposed Changes must be Reviewed and Approved by the Commission as an addendum to the Certificate of Appropriateness.

Certificate of Appropriateness is valid for 12 months from date of issuance.
Certificate may be renewed at discretion of the Historic District Commission.

Do you intend to apply for Special Property Tax Valuation for Historic Property Renovation? ☐

Signature of Owner(s) of Record

x

Signature of Applicant(s)

x

Signature of Agent (s)

x

x

x

x

Department Use Only

The following information to be completed by the Historic Preservation Commission:

Date application received _____

Date of Public Meeting _____

Inspected prior to hearing _____

Commissioners _____

Inspection upon Completion _____

Commissioners: _____

Planning & Building Dept. _____

The Historic Preservation Commission has made the following determination:

☐ Approved (Conditions) _____

☐ Denied (Findings) _____

Chair, Historic Preservation Commission:

Date:

X _____

Cutsheet Review Checklist

August 25, 2023

Project: City of Longview – Women’s Club

State Project No.:

Ameresco Project No.:

Reference: Lighting Preliminary Cutsheets

*Approval and Acceptance to be complete before equipment orders are placed.

Item #	Page #	Fixture Code:	Manufacturer	TYPE	Acceptance*
1	2	NLED9WA19	SATCO	LAMP	
2	3	NLED2PPL5W	SATCO	LAMP	
3	4	NLEDT82L4TC	ESPEN	LAMP	
4	9	T8 2 CHANNEL DRIVER	ESPEN	DRIVER	
5					
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19					
20					
21					
22					





Project Name

Location

Prepared By



SATCO S11413

9A19/LED/E26/840/120V/100PK

Notes

[www] 06-09-2021 01:41:21

General

Status	Active
Watts	9W
Incandescent Equivalent	60W
Volts	120V
Shape	A19
Base	Medium
ANSI Base	E26
Finish	Frost
CCT (Kelvin)	4000
Temperature	Cool White
CRI	80
Lumens	800L
Beam Spread	220
Dimmable	Non-Dimmable
Hours Rated	10000
Lamp Type	Type A
Technology	LED

Electrical

Power Factor	0.5
--------------	-----

Physical

MOL	4.41
MOD	2.38
Weight (lb.)	0.08

Additional Information

Additional Info	Bulk packed 100 per case.
Rated For Enclosed Fixture	Yes
Warranty	3 Year Limited - 10 hr per day

Compliance

Safety Listing	cULus
Location Rating	Damp
Energy Star	No
California Status	Non-Compliant
RoHS Compliant	Yes
SDS Sheet	LED_Lamp

Project Name

Location

Prepared By

**SATCO S18403**

4.5W/LED/CFL/840/G23/BP

Notes

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General

Status	Active
Watts	4.5W
Fluorescent Equivalent	5W/7W/9W
Volts	120V-277V
Ballast Type	Type B
Shape	PL
Base	G23
ANSI Base	G23
Finish	Frost
CCT (Kelvin)	4000
Temperature	Cool White
CRI	80
Lumens	450L
Beam Spread	360
Dimmable	Non-Dimmable
Hours Rated	50000
Lamp Type	PL
Burning Position	Universal
Technology	LED

Electrical

Operating Frequency	50/60 Hz
Power Factor	0.9
Operating Temperature	-25C (-13F) to a maximum of +45C (+113F)

Physical

MOL	6.54
MOD	1.28
Housing Color	White
Weight (lb.)	0.55

Additional Information

Warranty	5 Year Limited - 10 hr per day
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Compliance

Safety Listing	cETLus
Location Rating	Damp
Energy Star	No
California Status	Lawful for sale
RoHS Compliant	Yes
SDS Sheet	LED_Lamp



CoreTech CRI80 Type C Lamp

Commercial Grade LED Lamp



Product Certification

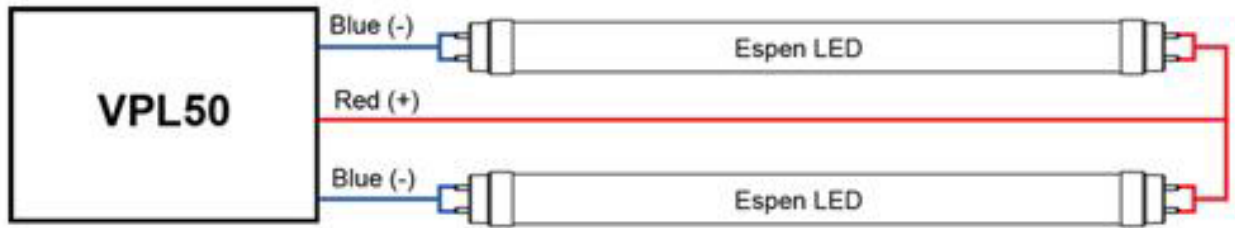
Features & Benefits

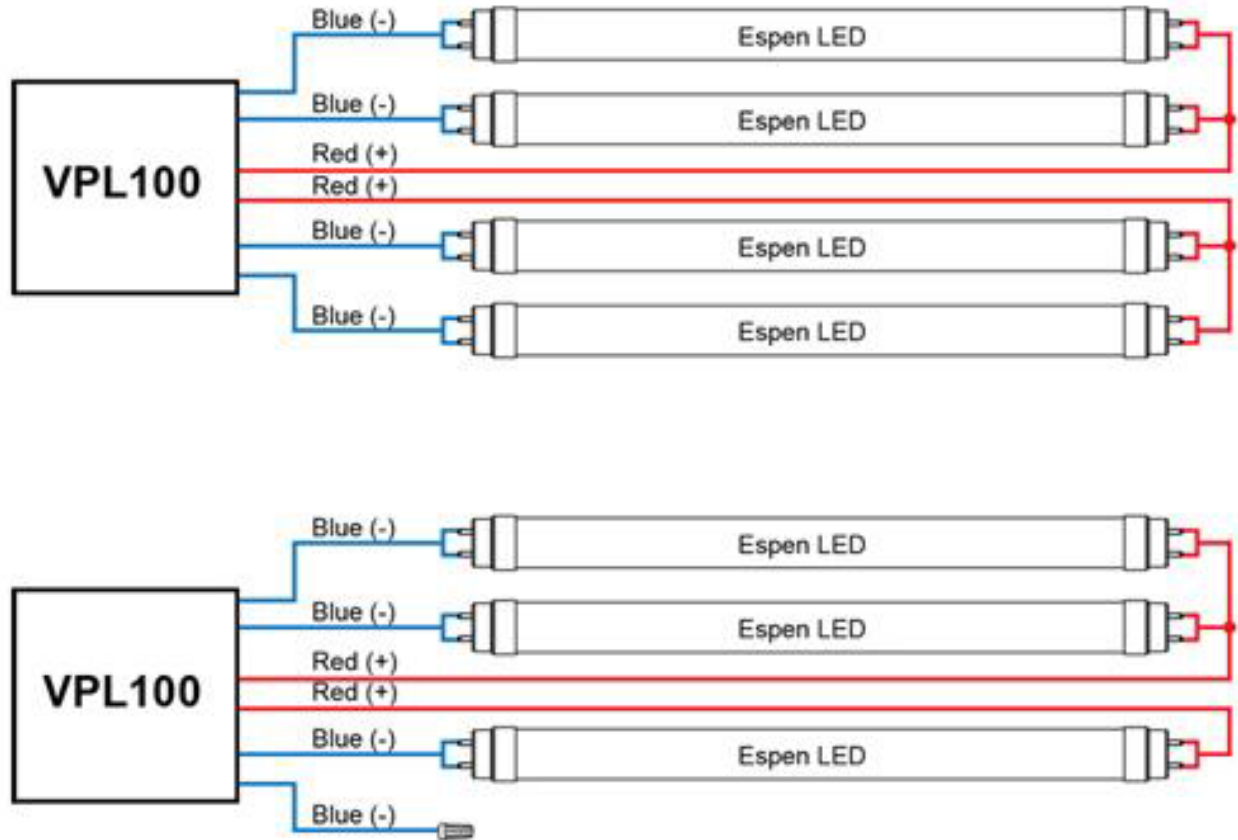
- Advanced dimming with Pro-DIM technology: 0-10V and/or AB dimming
- No Polarity: lamp ends can be reversed
- Same wiring as fluorescent lamp/ballast system
- UL 1598C for safety
- Full glass as fluorescent T8
- Smooth, Consistent Light
- Suitable for Dry and Damp Locations
- High CRI
- Instant on
- 50,000 hours with no limitation on On/Off Cycles
- Evaluated for use in totally enclosed, recessed luminaires, surface mount wall and ceiling luminaires, outdoor luminaires (open surface mount luminaires with compartment protection from weather)
- For use with Class 2 driver only
- 5 Year Warranty

Specification Data

Model	Lamp Input Current	System Wattage	Lamp Wattage	Length	CRI	Initial Lumens	Lamp Efficacy (lm/W)	System Efficacy (lm/W)	Beam Angle	CCT
L48T8/840/15G-XT	250mA	11.4	10	48"	82	1650	165	150	325	4000K
L48T8/840/15G-XT	300mA	15	12	48"	82	1800	150	120	325	4000K
L48T8/840/15G-XT	360mA	18	15	48"	82	2200	146	122	325	4000K

Wiring Diagram





Dlc Information

Order Code	Lamp Input Current	DLC Product ID	DLC Product Model	DLC Version
L48T8/840/15G-XT	250mA	PIFNEF1I	L48T8/840/15G-XT (2L)	5.1
L48T8/840/15G-XT	300mA	PZV5E4MK	L48T8/840/15G-XT N	5
L48T8/840/15G-XT	360mA	P4SJF8AD	L48T8/840/15G-XT H	5

Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.



VPL50-2C-025/030/036

1Driver Type	Constant Current Output Selectable LED Driver
No. of Channels	2
Input Voltage	120-277 V
Input Frequency	50-60 Hz
Dimming	0-10V

Features

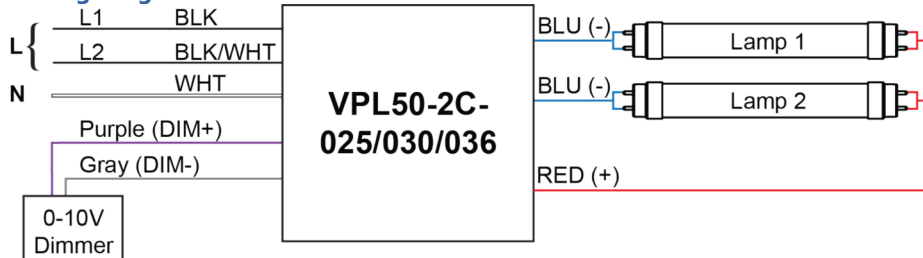
- Universal Voltage (120-277V)
- Multiple Output Channels
- Constant Current
- Per channel 250mA/300mA/360mA
- 0-10V
- Integrates with Adaptive Lighting Control Systems
- Compatible with LED modules and Coretech LED tubes
- UL, cUL, UL8750 Class 2
- FCC Part 15 Class A
- Operating Temperature: -22°F to 122°F
- Storage Temperature: -40°F to 131°F



CoreTech VPL PRODUCT SPECIFICATIONS

OUTPUT			INPUT	
No. of Channels	1	2	Frequency	50-60Hz
No. of Coretech LED Lamps	1	2	Input Voltage (range)	120-277 VAC
Output Voltage (Range)	20-48VDC		Power Factor (min.)	0.9 @ full load 277VAC
Output Current Range (Programmable @ full load)	250mA/300mA/360mA		THD (max.)	20% @ full load 110AC
Total Rated Power	35W		Efficiency (typical)	0.86

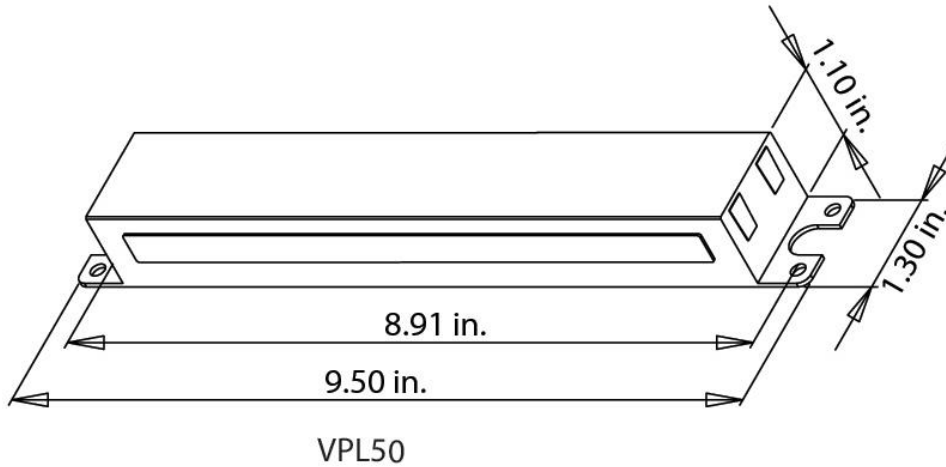
Wiring diagram



*Dual-Relay Output
Current Selection

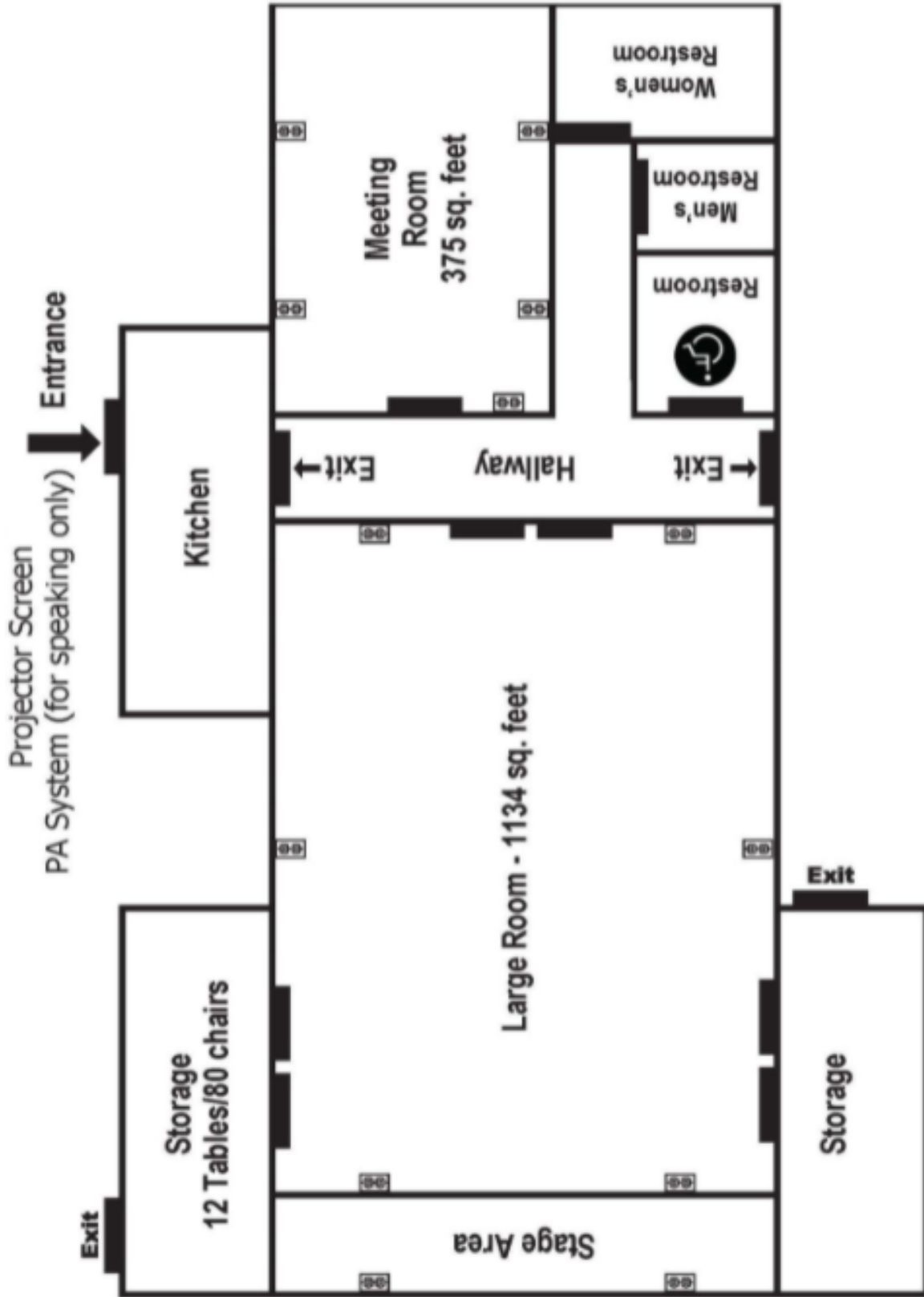
Input Line	Output Current
L2 (BLK/WHT)	250mA
L1 (BLK)	300mA
L1 + L2	360mA

Dimension



Specification data is based on tests performed in a controlled environment and represents relative performance. Actual performance can vary depending on operating conditions. Application and performance data subject to change without notice. All specifications are nominal unless noted otherwise.

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Toll Free: (866) 933-7736 | Email: info@espentech.com | www.espentech.com



Womens Club Lighting Photos



Front entry, to have bulb replaced only.



Basement Fixtures. The bulbs that are not already LED will be replaced with LED.



Kitchen fixture, bulb to be replaced with LED.



Existing Main room fixtures. Previously, converted to LED.



Bathroom lights. Bulbs to replaced with LED.



Hallway lights. Bulbs to be replaced with LED.



Stage lights. Bulbs to be replaced with LED.



Hallway lights. Bulbs to be replaced with LED.

Site Information			Existing							Selected					
Item #	Site	Location (floor, room #, etc.)	Exist. Fixture Code	Fixture Description	Fixture Quantity	If Controlled by a Device on another Line, Enter Item # Here	Existing Controls Description	Device Quantity	Selected Solution	Selected Fixture Code	Fixture Description	Fixture Quantity	If Controlled by a Device on another Line, Enter Item # Here	Selected Controls Description	Device Quantity
586	Womens Club	City of Longview Women's Club Interior Main hall storage	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	4	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espen Core)	4			
587	Womens Club	City of Longview Women's Club Interior Main hall storage	ECFCPY2PPL13 W	Existing CFL 1L 13W Canopy 10"	2	0		0	Upgrade Fixtures	NLED2PPL5W	New LED 2 Pin PL 5 Watt G23 Base (S18403)	2			
588	Womens Club	City of Longview Women's Club Interior Stage	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espen Core)	2			
589	Womens Club	City of Longview Women's Club Interior Hallway	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	2	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espen Core)	2			
592	Womens Club	City of Longview Women's Club Interior All restrooms	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	3	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espen Core)	3			
595	Womens Club	City of Longview Women's Club Interior Basement	ECFS111W	Existing CFL Screw-in Keyless 1L 11W	2	0		0	Upgrade Fixtures	NLED9WA19	New LED 9 Watt A19 Lamp (S11413)	2			
596	Womens Club	City of Longview Women's Club Interior Basement	ET8W4232W	Existing T8 Wrap Surface mount ceiling prismatic 1x4' 2 lamp 32W	1	0		0	Upgrade Fixtures	NLEDT82L4TC	New LED T8 2 Lamp Type C 4' Retrofit (Espen Core)	1			
597	Womens Club	City of Longview Women's Club Exterior Front Walkway	ECFDECPL32W	Existing CFL 1L 32W Decorative Pole Top	1	0		0	Upgrade Fixtures	NLED9WA19	New LED 9 Watt A19 Lamp (S11413)	1			