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Architectural Review Board Staff Report

Meeting Date: November 9, 2023

From:Petree Powell, Assistant City PlannerShilpi Bharti, Planner

- Location: West of River Valley Drive
- Description:224 River Valley Drive (River Bend Elementary):
Development Plan, Amended Architectural Elevations, and the Architect's
Statement of Design for an elementary school building zoned "R2"
Residential District located west of River Valley Drive.

PROPOSAL SUMMARY

WSP-USA, on behalf of Parkway School District, has submitted an Amended Site Development Plan, Architectural Elevations, and the Architect's Statement of Design. The Amended Site Development proposal provides for two building additions, vestibule and site improvements to the existing elementary school.

Specifically, two (2) of the building additions are proposed on the south side of the existing building. The addition includes a kindergarten classroom and fine arts addition. A new enclosed entrance and vestibule will be provided at the front that is located on the east side of the building. Other improvements include: playground next to the proposed kindergarten addition, replacing the drive lane asphalt and sidewalks; replacing a portion of the existing track surface; and equipment to the rear playground; replacing the play surface east of the rear playground; and



Figure 1: Subject Site

adding a new ADA ramp to provide access to a below grade storm shelter that will be below the new kindergarten addition.

SITE HISTORY

The site is zoned "R2- Residential District" and surrounded by R2 residential district. The building on the site was constructed prior to City was incorporated. In 2020, the site plan was amended to provide 30 parking spaces on the north side of the building.

STAFF ANALYSIS

The Unified Development Code's Architectural Review Design Standards are broken down into two (2) areas of review: Site Design & Building Design. The general requirements for Site Design include Site Relationships, Topography & Parking, Circulation & Access, and Retaining Walls while the general requirements are for Building Design include Scale, Design, Materials & Colors, Landscape Design & Screening, Signage, and Lighting.

The UDC has specific provisions regarding the redevelopment of existing buildings. All additions and



exterior renovations to existing structures shall advance such structures toward further compliance with the provisions of UDC's Architectural Review Design Standards. Exterior additions must also be incorporated into one (1) cohesive design with the existing structure. The proposed addition will have same building material and color as existing school building.

Site Relationship

The new addition to the building will be of similar height and structure to the existing building.

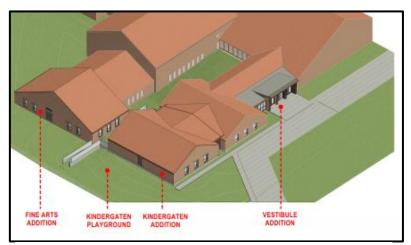


Figure 3. Bird's Eye View

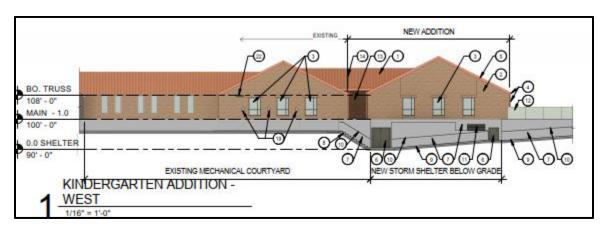


Figure 4. Kindergarten Addition West Elevation

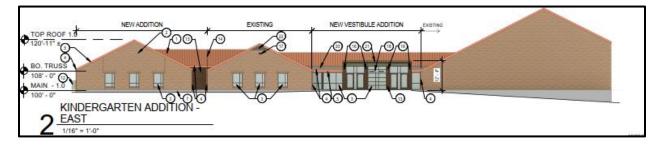


Figure 5. Kindergarten Addition East Elevation

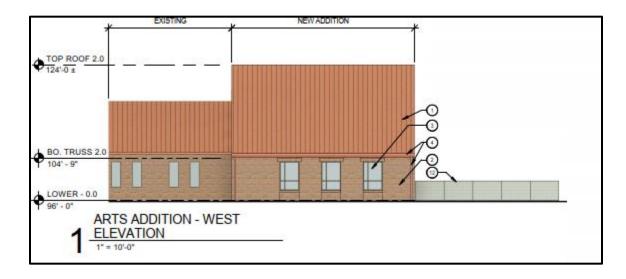


Figure 6. Fine Arts Addition West Elevation

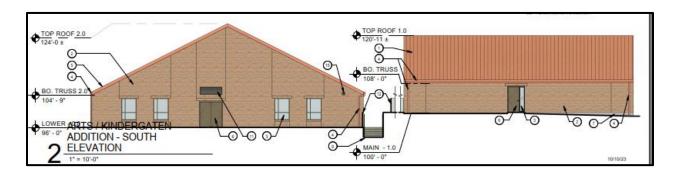


Figure 7. Fine Arts and Kindergarten Additions- South Elevations

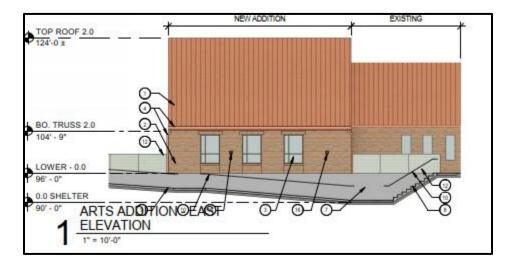


Figure 8. Fine Arts Addition East Elevation

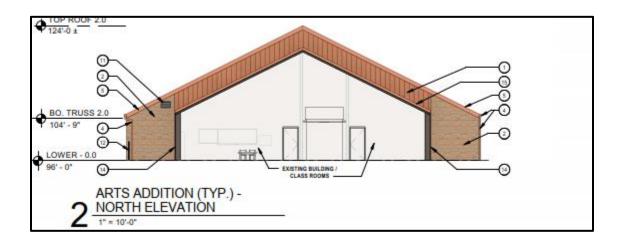


Figure 9. Final Arts Addition- North Elevation

Topography & Parking

The site is relatively flat. A new retaining wall is proposed on the south side of the new kindergarten playground and building addition. This short wall of approximately three (3) feet in height provides the necessary slope to accommodate the new playground surface and equipment. Site improvements are limited to pavement replacement at the main bus drop-off drive at the front of the school. There is no change in the parking.

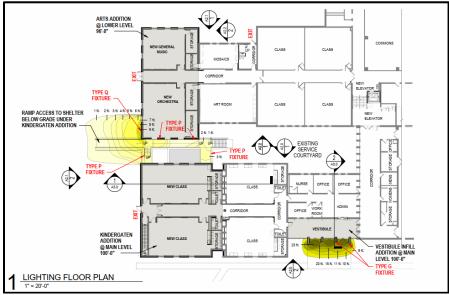
Design, Materials, & Colors

The proposed addition is of similar scale and design to the existing building. The new primary entrance utilizes accent brick pilasters, with a vertical proportion. This same accent brick is utilized as a buffer between the two kindergarten classrooms. New windows are provided in the existing kindergarten wing to mimic the character and spacing of the entry vestibule pilasters. They replace the windows lost on the southside of the classrooms where the new addition attaches. They also eliminate what is currently a large blank façade. The primary brick, glass, roof and roof edge materials are selected to match the existing structure.

The primary building material is brick veneer and metal roof to match the existing structure to the greatest extent possible. Aluminum and glass have also been selected to match the existing structure and compliment the design of the facility. New windows are a dark bronze color finish in an aluminum storefront system with insulated glazing. The new roofs on the additions will be standing seam metal roofs to match the existing roofs. Prefinished metal fascia will be in a color to match the standing seam roofs.

Lighting

There are five wall pack lights proposed with this development. Cut sheets of light fixtures are included in the packet.



Figures 10: Lighting Plan

RENDERING



DEPARTMENT INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the Architectural Review Board will be included in Staff's report to the Planning Commission.

MOTION

The following options are provided on the Architectural Review Board for consideration relative to this application:

"I move to forward the Amended Site Plan, Architectural Elevations, and the Architect's Statement of Design for River Bend Elementary as presented, with a recommendation for approval (or denial) to the Planning Commission."

"I move to forward the Amended Site Plan, Architectural Elevations, and the Architect's Statement of Design for River Bend Elementary to the Planning Commission with a recommendation for approval with the following recommendations..."

Attachments:

1. Architectural Review Packet Submittal

Architectural Review Board City of Chesterfield

Subject: River Bend Elementary Statement of Design

WSP is pleased to submit for your consideration the site improvements and building additions proposed for River Bend Elementary. These improvements were designed to provide a more secure facility, better classroom organization and improved student accessibility. In doing so, we've also addressed the City of Chesterfield general requirements for site and building design.

Site Relationships. We have continued the existing site organization while improving the pedestrian school entrance. The secure vestibule provides for a more readily identifiable "front door". It is a primarily glass clad vestibule to enhance the passive security characteristics while providing both an indoor and outdoor gathering space before being granted access to the school. The new front doors are framed by brick pilasters utilizing decorative wall sconces to further accent the entry point. The new additions continue the character and proportions of the existing school, being respectful to the overall scale already in place.

Circulation System and Access. The existing pedestrian and vehicular access strategy currently in place at the school has been working well and is not impacted by these proposed improvements. Site improvements are limited to pavement replacement at the main bus drop-off drive at the front of the school.

Topography. The proposed site improvements utilizes existing topography to its fullest resulting in minimal changes.

Retaining Walls. A new retaining wall is proposed on the south side of the new kindergarten playground and building addition. This short wall of approximately 3' in height provides the necessary slope to accommodate the new playground surface and equipment.

Scale. The kindergarten addition, facing the primary entrance, aligns with the character and scale of the existing kindergarten classrooms. Similarly, the new entry vestibule enhances the primary entrance sequence by introducing accent brick and glass to provide a buffer between the existing kindergarten and existing gymnasium elements. The fine arts addition, proposed within the site, also mimics the scale of the existing facility.

Design. The new primary entrance utilizes accent brick pilasters, with a vertical proportion to increase the visual texture and morning shadows onto and through the new glass façade. This same accent brick is utilized as a buffer between the two kindergarten classrooms; allowing each to become its own element. New windows are provided in the existing kindergarten wing to mimic the character and spacing of the entry vestibule pilasters. They also eliminate what was once a large, blank façade. The primary brick, glass, roof, and roof edge material are selected to match the existing.

Materials and Colors. The primary building materials of brick veneer and metal roof are selected to match the existing to the greatest extent possible. Accent brick has been introduced that provides additional character and depth to coordinate and transition between the proposed and existing structures. Aluminum and glass have also been selected to match existing and compliment the design of the facility.

Landscape Design and Screening. The proposed site improvements and building additions do not affect any existing landscape elements or provide an opportunity for additional landscaping. They do include improvements to playground areas to create a safer, more enjoyable playground for the school.

Signage. The proposed projects do not include any new or modifications to existing site or building signage. The primary entrance does incorporate vinyl film applied to the interior glass pane indicating River Bend. This film is anticipated to be a white, translucent film allowing for light to pass through it while subtly identifying the entry point.

Lighting. The proposed projects do not impact any existing site lighting. All parking and roadway lighting remains in its current location. Decorative wall sconces, as included in the packet, are provided at the main entrance to help identify the entrance. Traditional egress lights adjacent to the exit doors at the two new building additions are provided as well.

It is our hope that you will be in agreement that the proposed site improvements and building additions at River Bend Elementary have been designed in accordance with the design standards set forth while positively impacting the existing facility.

Yours sincerely,

Jason Mayfield, AIA Vice President WSP USA, Inc.

PARKWAY SCHOOL DISTRICT **RIVER BEND ELEMENTARY ADDITIONS, RENOVATIONS &** SITE IMPROVEMENTS

CITY OF CHESTERFIELD ARCHITECTURAL REVIEW BOARD SUBMITTAL DRAFT 10-19-2023

SCOPE OF WORK

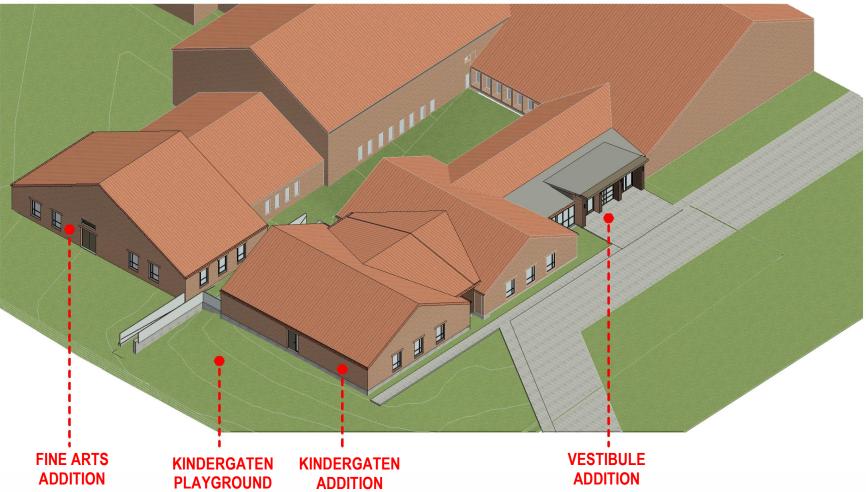
THE OVERALL PROJECT SCOPE OF WORK FOR THIS SCHOOL IS A MULTI-PHASE PROJECT CONSISTING OF THE FOLLOWING:

- A. INTERIOR RENOVATIONS INCLUDING ELEVATOR TO PROVIDE ADA ACCESS AND FIRE SPRINKLER SYSTEM INSTALLATION.
- B. BUILDING ADDITIONS TO PROVIDE
 - a. NEW SECURE PRIMARY ENTRANCE
 - b. NEW KINDERGARTEN CLASSROOMS AND LOWER LEVEL STORM SHELTER
 - c. NEW FINE ARTS ADDITION
- C. SITE IMPROVEMENS TO FACILITATE THE ADDITIONS, FRONT ENTRY DRIVE PAVEMENT REPLACEMENT, AND NEW PLAYGROUNDS TO REPLACE EXISTING.

SHEET INDEX

- COVER A0.0
- **PROJECT LOCATION AREA** A0.1
- A0.2 **EXISTING CONTEXT VIEWS**
- A1.0 SITE PLAN
- LIGHTING FLOOR PLAN A1.1
- A2.0 EXTERIOR ELEVATIONS
- EXTERIOR ELEVATIONS A2.1
- A2.2 **EXTERIOR ELEVATIONS**
- A4.0 MATERIAL SAMPLES



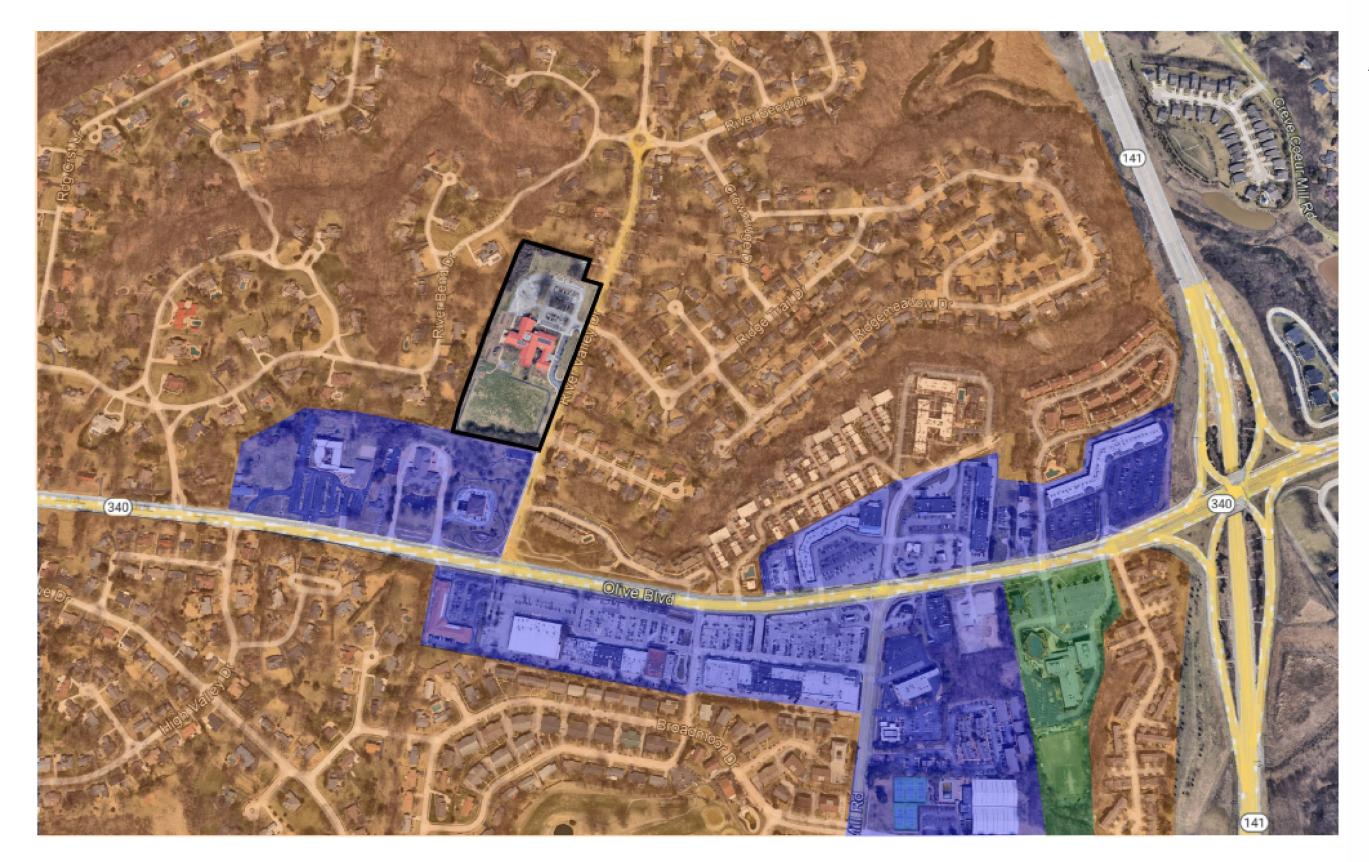




10/18/23

ADDITIONS, RENOVATIONS & SITE **IMPROVEMENTS** 224 River Valley Drive Chesterfield, MO 63017





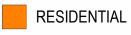


PROJECT LOCATION AREA

ADDITIONS, RENOVATIONS & SITE IMPROVEMENTS 224 River Valley Drive Chesterfield, MO 63017

30902493.003

ADJACENT USES





COMMERICAL





10/18/23





NORTH VIEW



SOUTH VIEW



EAST VIEW





EXISTING CONTEXT VIEWS

ADDITIONS, RENOVATIONS & SITE IMPROVEMENTS 224 River Valley Drive Chesterfield, MO 63017

30902493.003



10/10/23





GENERAL NOTES:

- ALL LANDSCAPE AND TREES ILLUSTRATED 1. ARE EXISTING TO REMAIN.
- ALL PARKING AND PARKING LOT LIGHTING 2. TO REMAIN UNLESS NOTED OTHERWISE.

KEYNOTES - SITE PLAN

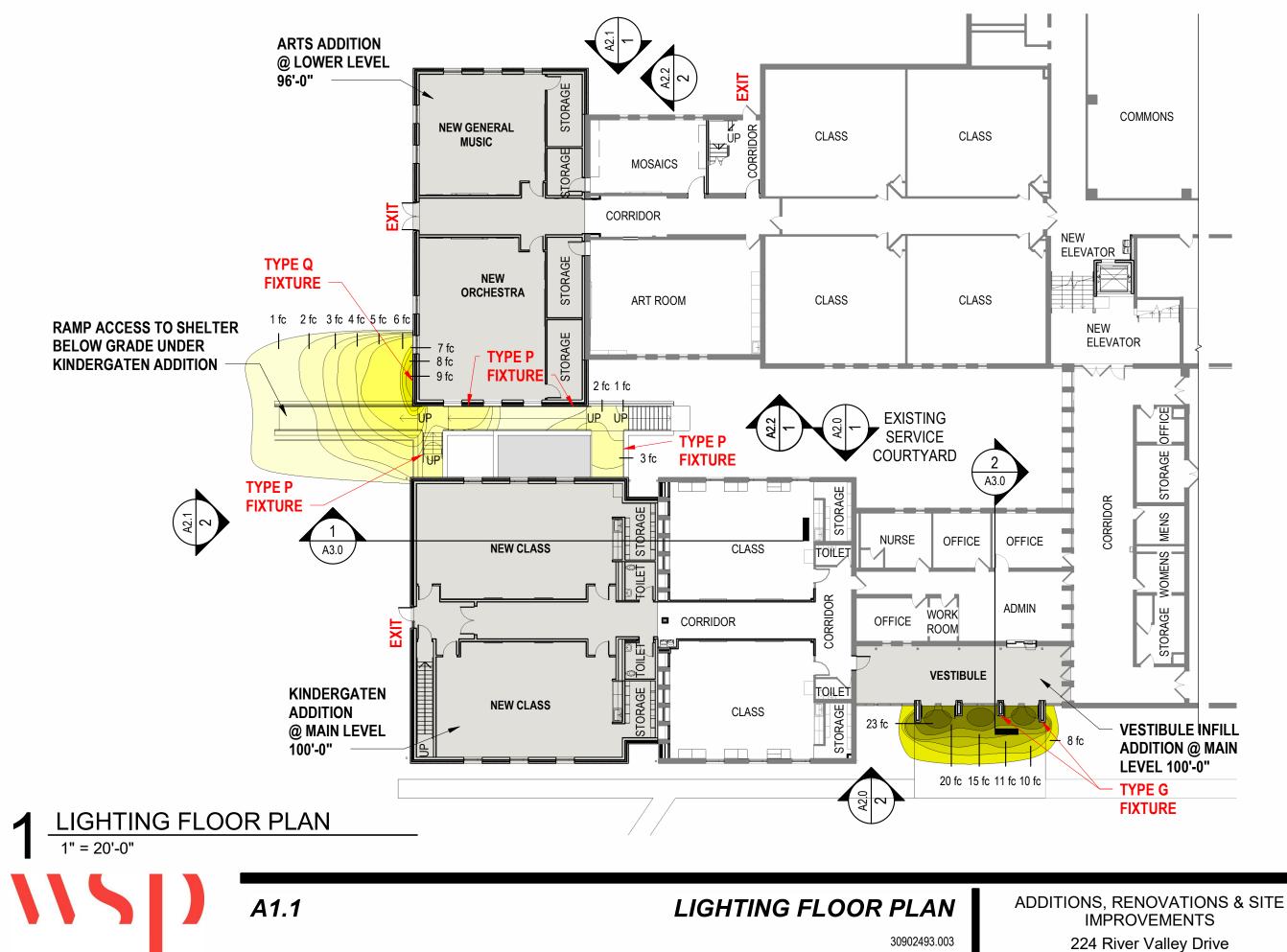
NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- NEW SECURE, PRIMARY ENTRANCE 1. VESTIBULE.
- 2. NEW KINDERGARTEN ADDITION.
- NEW FINE ARTS ADDITION. 3.
- NEW KINDERGARTEN PLAYGROUND 4. SURFACE AND EQUIPMENT.
- NEW ELEMENTARY PLAYGROUND SURFACE 5. AND EQUIPMENT.
- REPLACED DRIVE LANE ASPHALT AND 6. SIDEWALKS.
- REPLACE TRACK SURFACE. 7.
- EXISTING TRACK SURFACE AND PLAYFIELD 8. TO REMAIN.
- REPLACE ASPHALT PLAY SURFACE. 9.
- EXISTING PARKING LOT AND CURB CUT TO 10. REMAIN.
- NEW ADA RAMP ACCESS TO STORM 11. SHELTER BELOW KINDERGATEN ADDITION
- EXISTING SERVICE COURT YARD TO REMAIN 12.
- 13. EXISTING BUILDING TO REMAIN
- 14. PROPERTY LINE
- EXISTING ELEMENTARY PLAYGROUND 15. EQUIPMENT AND SURFACE TO REMAIN
- EXISTING LANDSCAPING TO REMAIN 16.



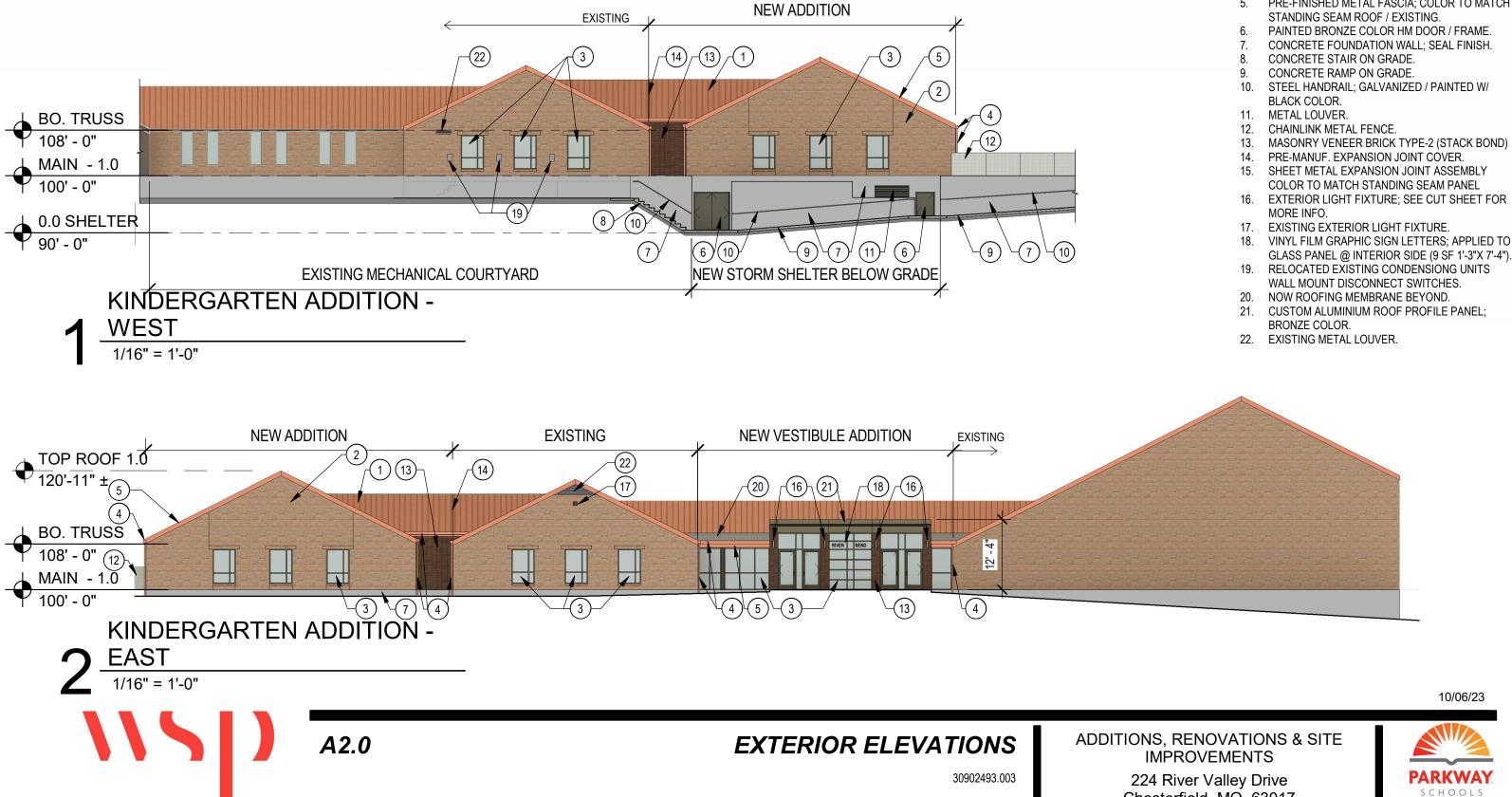
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ADDITIONS, RENOVATIONS & SITE **IMPROVEMENTS** 224 River Valley Drive Chesterfield, MO 63017





10/19/23



KEYNOTES - EXTERIOR ELEVATIONS

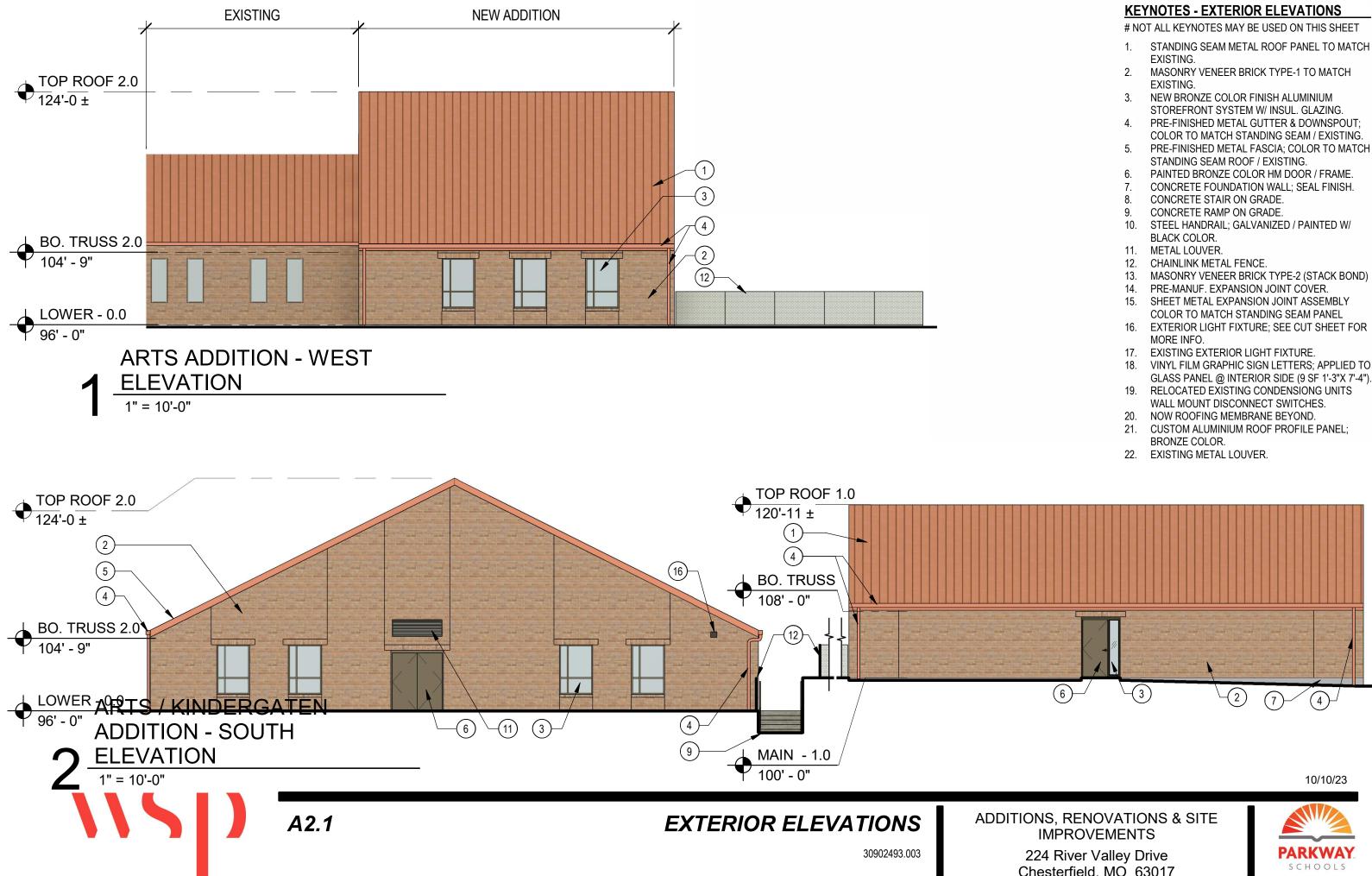
NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- 1. STANDING SEAM METAL ROOF PANEL TO MATCH EXISTING.
- 2. MASONRY VENEER BRICK TYPE-1 TO MATCH EXISTING.
- NEW BRONZE COLOR FINISH ALUMINIUM 3. STOREFRONT SYSTEM W/ INSUL. GLAZING.
- PRE-FINISHED METAL GUTTER & DOWNSPOUT; 4 COLOR TO MATCH STANDING SEAM / EXISTING.
- PRE-FINISHED METAL FASCIA; COLOR TO MATCH 5.

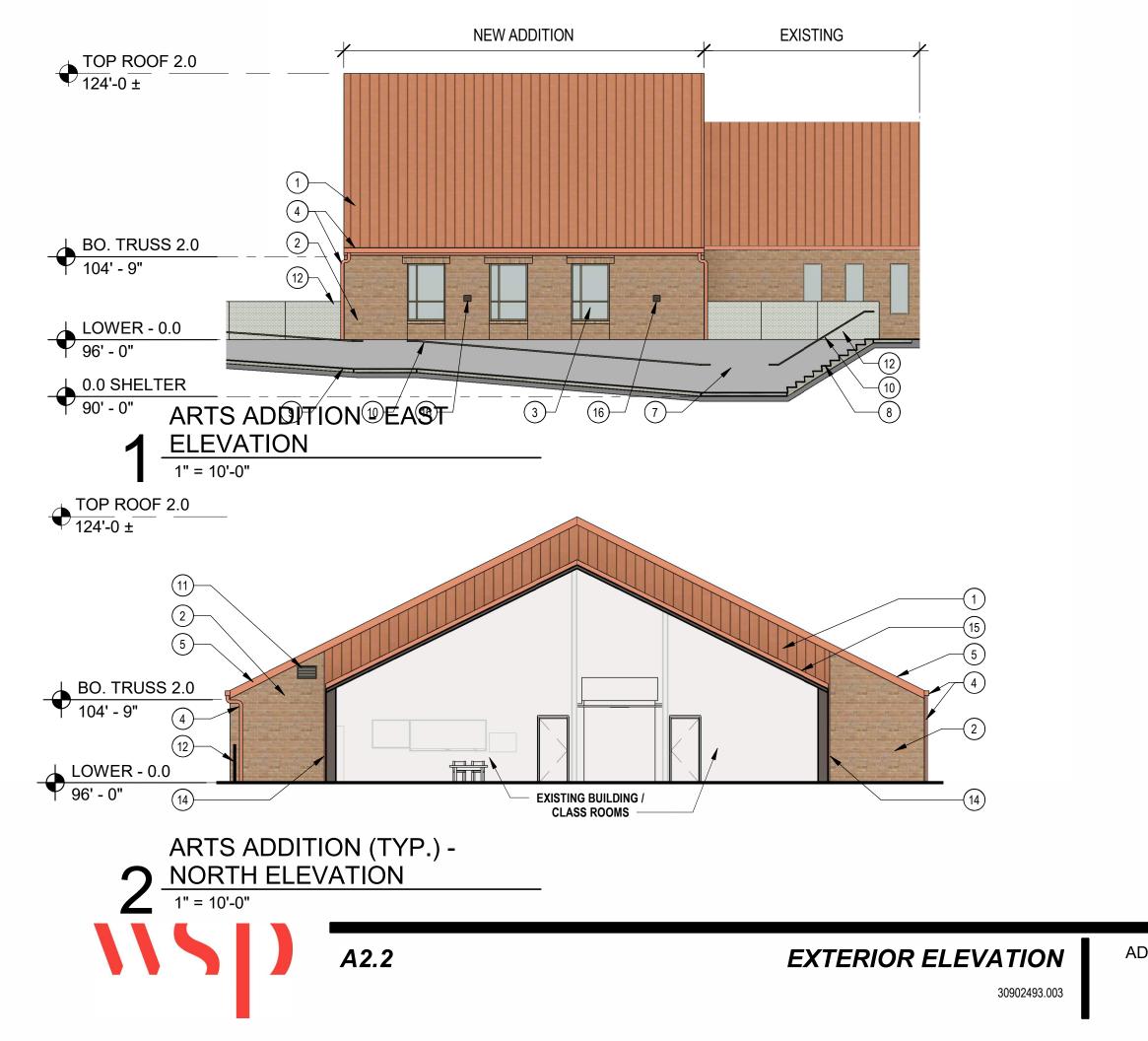
- MASONRY VENEER BRICK TYPE-2 (STACK BOND)

- VINYL FILM GRAPHIC SIGN LETTERS; APPLIED TO

Chesterfield, MO 63017



Chesterfield, MO 63017



KEYNOTES - EXTERIOR ELEVATIONS

NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- STANDING SEAM METAL ROOF PANEL TO MATCH 1 EXISTING.
- MASONRY VENEER BRICK TYPE-1 TO MATCH 2. EXISTING.
- NEW BRONZE COLOR FINISH ALUMINIUM 3. STOREFRONT SYSTEM W/ INSUL. GLAZING.
- PRE-FINISHED METAL GUTTER & DOWNSPOUT; 4 COLOR TO MATCH STANDING SEAM / EXISTING.
- PRE-FINISHED METAL FASCIA; COLOR TO MATCH 5. STANDING SEAM ROOF / EXISTING.
- PAINTED BRONZE COLOR HM DOOR / FRAME. 6.
- CONCRETE FOUNDATION WALL; SEAL FINISH. 7.
- 8. CONCRETE STAIR ON GRADE.
- CONCRETE RAMP ON GRADE. 9.
- 10. STEEL HANDRAIL; GALVANIZED / PAINTED W/ BLACK COLOR.
- METAL LOUVER. 11.
- CHAINLINK METAL FENCE. 12.
- MASONRY VENEER BRICK TYPE-2 (STACK BOND) 13.
- PRE-MANUF. EXPANSION JOINT COVER. 14.
- SHEET METAL EXPANSION JOINT ASSEMBLY 15. COLOR TO MATCH STANDING SEAM PANEL
- EXTERIOR LIGHT FIXTURE; SEE CUT SHEET FOR 16. MORE INFO.
- EXISTING EXTERIOR LIGHT FIXTURE. 17.
- VINYL FILM GRAPHIC SIGN LETTERS; APPLIED TO 18. GLASS PANEL @ INTERIOR SIDE (9 SF 1'-3"X 7'-4").
- 19. RELOCATED EXISTING CONDENSIONG UNITS WALL MOUNT DISCONNECT SWITCHES.
- 20. NOW ROOFING MEMBRANE BEYOND.
- 21. CUSTOM ALUMINIUM ROOF PROFILE PANEL;
- BRONZE COLOR.
- 22. EXISTING METAL LOUVER.



10/10/23

ADDITIONS, RENOVATIONS & SITE **IMPROVEMENTS** 224 River Valley Drive Chesterfield, MO 63017





EXISTING STREET VIEW



RENDERING

30902493.003

PARKWAY SCHOOLS

10/26/23

ADDITIONS, RENOVATIONS & SITE IMPROVEMENTS 224 River Valley Drive Chesterfield, MO 63017



MASONRY BRICK VENEER TO MATCH EXISTING



MASONRY VENEER BRICK TYPE-2 (STACK BOND)



WINDOWS AND STOREFRONT



STANDING SEAM METAL ROOF TO MATCH EXISTING

A4.0



DARK BRONZE ALUMINUM MULLIONS FOR ALL WINDOWS AND STOREFRONT

MATERIAL SAMPLES

30902493.003

BRONZE TINTED GLAZING FOR ALL NEW

10/11/23

ADDITIONS, RENOVATIONS & SITE IMPROVEMENTS 224 River Valley Drive Chesterfield, MO 63017



UARELLO 485 L Wall Mounted Luminaire

.hess

DESCRIPTION

The simple cylindrical form of VARELLO blends subtly with a broad range of architecture. The heavy wall extruded aluminum housing, fitted top and bottom with precision-machined lens rings, provides subtle direct and indirect illumination. Matte acrylic window highlights the luminaire and serves as an illuminated focal point. Top and bottom lenses are clear tempered glass. Luminaire is finished in finely textured paint. Hardware is stainless steel.



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Date:	Ту	/pe:G	Catalog Number: .	VL	485	LED	WW	UNV-	W-MB-	-BRZ-I
Project Name:	PARKWAY	RIVERBEND	ELEMENTARY							—
										2

ORDERING INFORMATION

LUMINAIRE						
MODEL	CCT	CONTROL	VOLTAGE	OPTIC- DOWN	OPTIC- UP	FINISH (Primar®)
VL485LW Varello 485L	30K 3000K	ON-OFF On-Off	UNV 120-277v	NB 13° Down	NB 13° Up	DG Dark Grey
	40K 4000K	DIM 0-10v Dimming		MB 27° Down	MB 27° Up	GG Graphite Grey
				WB 59° Down	WB 59° Up	SG Silver Grey
				N None	N None	BL Black
						DB Dark Bronze
						CC Custom RAL Color



SPECIFICATIONS

HOUSING

Cylindrical housing is machined from 6060 extruded aluminum alloy tubing. Upper and lower lens rings are precision machined from 6060 aluminum and sealed to the housing with one-piece die-cut closed cell silicone gaskets. Upper and lower tempered glass lenses are sealed to the lens rings with one-piece closed cell silicone gasket. Luminaire with cast aluminum bracket mounts to wall surface with factory-supplied wall anchors and hardware. All hardware is stainless steel.

OPTICS

Optics include single CoB LED with reflector and diffusing lens. Available distributions include narrow 13°, medium 27°, or wide 59° beam spreads.

ELECTRICAL

Electronic LED driver supplies 350mA drive current to LED module with input voltage range from 120v through 277v at 50/60Hz. Power consumption is 28 watts. Optional 0-10v DC dimming is available on request.

DELIVERED LUMENS PER LIGHT SOURCE (UP OR DOWN) / CRI = 80

3000K	4000K
13° BEAM / 1554 LMS	13° BEAM / 1658 LMS
27° BEAM / 1491 LMS	27° BEAM / 1592 LMS
59° BEAM / 1451 LMS	59° BEAM / 1547 LMS

NOTE : Due to rapid and continuous advances in LED technology, LED luminaire data is subject to change without notice and at the discretion of HessAmerica. Consult factory for current technical data.

FINISH

Standard finishes are finely textured matte silver grey metallic, dark grey, graphite grey, matte black, or dark bronze. Special colors available on request.

CERTIFICATION

CSA Certified for Wet Locations

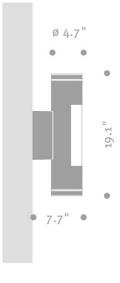
WARRANTY

Limited product warranty period including the LEDs is five years. Driver shall carry the manufacturer's limited warranty.



DIMENSIONS

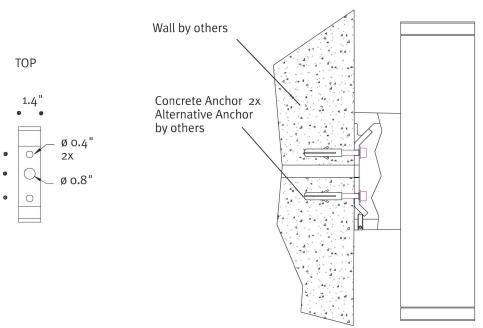
All dimensions are shown in inches unless otherwise noted.





MOUNTING DETAILS

1.6" 1.2"





.hess

APPLICATION







www.HessAmerica.com For other Experience Brands companies, please visit www.experiencebrandsusa.com. In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear on www.hessamerica.com are the most recent ones available.

Exterior Egress Lights at shelter ramp

Project	PARKWAY RIVERBEN ELEMENTARY	D Catalog #	IST-SA1F-830-U-T4FT-BK	Туре	Q
Prepared by		Notes		Date	



🖌 Interactive Menu

- Ordering Information page 2
- Product Specifications page 2
- Energy and Performance Data page 3
- Control Options page 4

McGraw-Edison

Impact Elite LED

Wall Mount Luminaire

Product Certifications



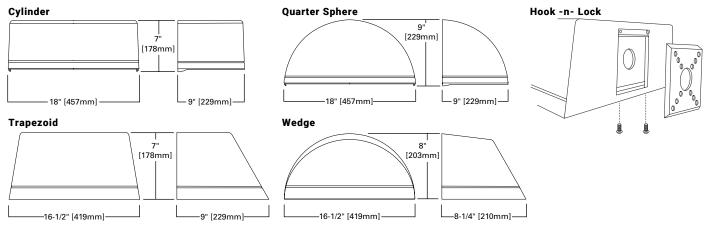
Quick Facts

- 10 Optical Distributions
- Lumen packages range from 2,459 to 8,123 (20W 66W)
- Efficacy up to 143 lumens per watt

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



NOTES: 1. IDA Certified for 3000K CCT and warmer only.



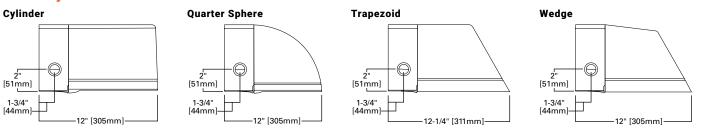
Ordering Information

SAMPLE NUMBER: ISC-SA1F-740-U-T3-BZ

	Light E	ingine	Color	W B			
Product Family ¹	Configuration	Drive Current	Temperatu	re Voltage	Distribution	Finish	
ISC=Impact Elite LED Small Cylinder ISS=Impact Elite LED Small Quarter Sphere IST=Impact Elite LED Small Trapezoid ISW=Impact Elite LED Small Cylinder Buy Americ TAA-ISC=Impact Elite LED Small Cylinder Trade Agre BAA-ISS=Impact Elite LED Small Quarter Sphere Trad BAA-ISS=Impact Elite LED Small Quarter Sphere Trad BAA-IST=Impact Elite LED Small Trapezoid Buy Americ TAA-IST=Impact Elite LED Small Trapezoid Buy Americ TAA-IST=Impact Elite LED Small Trapezoid Trade Agr BAA-ISW=Impact Elite LED Small Trapezoid Trade Agr BAA-ISW=Impact Elite LED Small Trapezoid Trade Agr	SA1=1 Square	A=350mA B=450mA C=600mA D=800mA E=1000mA F=1200mA ²	722=70CRI, 22 727=70CRI, 27 730=70CRI, 30 735=70CRI, 30 750=70CRI, 50 760=70CRI, 60 827=80CRI, 27 830=80CRI, 30 AMB=Amber, 590nm ^{3,4}	00K 1=120V 2=208V 00K 3=240V 4=277V 00K 8=480V ^{2,5} 00K 9=347V ²	T2=Type II T3=Type II T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type II w/Spill Control SL4=Type IV w/Spill Control SL4=0° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	
Options (Add as Suffix)	Controls and S	systems Options (A	ld as Suffix)		Acces	sories (Order Separately) ²⁵	
X-Driver Surge Protection (6kV) Only ¹⁷ 20K-Series 20kV UL 1449 Surge Protective Device CBP-Battery Pack with Back Box, Cold Weather Rated ^{13,15} CBP-CEC-Battery Pack with Back Box, Cold Weather Rated, CEC compliant ¹³ HSS-Factory Installed House Side Shield ¹⁶ UG=Uplight Glow ^{6,7} LCF-Light Square Trim Plate Painted to Match Housing TR-Tamper Resistant Hardware CC-Coastal Construction ²² HA-50°C High Ambient ⁸ AHD145-After Hours Dim, 5 Hours, 50% ⁹ AHD245-After Hours Dim, 6 Hours, 50% ⁹ AHD355-After Hours Dim, 8 Hours, 50% ⁹	BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ^{2, 6,7} SPB1=Dimming Occupancy Sensor with Bluetooth Interface, .8' Mounting ^{12, 23} SPB2=Dimming Occupancy Sensor with Bluetooth Interface, .2'-40' Mounting ^{12, 23} SPB4=Dimming Occupancy Sensor with Bluetooth Interface, .2'-40' Mounting ^{12, 23} SMS/DM-LXX=Motion Sensor for Dimming Operation ^{7, 10, 12} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{6, 12, 13} LWR-LW=Enlighted Wireless Sensor, Narow Lens for 16'-40' Mounting Height ^{6, 12, 13} LWR-LW=Enlighted Mireless Sensor, Narow Lens for 16'-40' Mounting Height ^{6, 12, 13} ZW=WaveLinx-Enabled Module and 4-PIN Receptacle ⁷ ZW-SWPD4XX=WaveLinx Control Module and Wireless Sensor - 7'-15' ^{7, 18, 20} ZW-WOFXX=WaveLinx Control Module and LC Bluetooth Sensor - 7'-15' ^{7, 18, 20} ZD-SWPD4XX=WaveLinx with DALI Driver and LC Bluetooth Sensor - 7'-15' ^{7, 18, 20} ZD-WOBXX=WaveLinx with DALI Driver and LC Bluetooth Sensor - 7'-15' ^{7, 18, 20}					or 19 21aht ^{7, 18, 20, 21}	
NOTES: 1. Design Lipht Consortium [®] Qualified. Refer to www.designlights. 2. Not available with ULG option. 3. Choose Drive Current "B' for Amber 590nm, which is provided a 4. Narrow-band 590m +/-5 mm for wildlife and observatory use. (Luminaire wattage available in IES files. Available with SWQ, SMQ, 5. 480V not to be used with ungrounded or impedance grounded 5 6. Not available with ISS or ISW. 7. Cannot be used in conjunction with other control options. 8. Suitable for 50°C provided no options other than motion sensos 9. Requires the use of photocontrol. Not available with 350m A dri information. 10. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or 11. The FSIR-100 configuration tool is required to adjust parameter toree. Consult your lighting representative at Cooper Lighting Solu 13. Enlighted wireless espensors are factory installed and require no	ive current only. Exact with HSS option. A or less. Il guide for additional time delay, cutoff and	17. Removes addi 18. Replace XX wi 19. Requires PR7. 20. For WaveLinx: 11. Requires ZW of 22. Coastal const 23. Smart device v 24. Only product of Trade Agreements Components ship 25. For BAA or TA	tional surge module th sensor color (WH applications, WAC G pply if needed. Gate r ZD receptacle. uction finish salt sp vith mobile applicat onfigurations with t Act of 1979 (TAA), ped separately may l	, BZ, or BK). ateway required to enable field-conf way not required for WaveLinx Lite (ray tested to over 5,000-hours per A fon required to change system defa. hese designated prefixes are built to respectively. Please refer to DOMES be separately analyzed under domes essories sold separately will be sep arately analyzed under domes	gurability: Order WAC-PoE and WPOE-12: Commercial (LC) applications. STM B117, with a scribe rating of 9 per A lts. See controls section for details. be compliant with the Buy American Act IT O <u>PRFERENCES</u> website for more info	STM D1654. of 1933 (BAA) or rmation	

information. 10. Replace LXX with L08 (<8' mounting), L20 (6'-20' mounting) or L40W (21'-40' mounting.) 11. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 12. Includes integral photocoll. 13. Enlighted wireless sensors are factory installed and require network components in appropriate quantities. 14. Battery pack operating temperature of -20C to +40C. Operates downlight for 90-minutes. 15. Must specify 120V or 277V.

Thruway Back Box



Product Specifications

Construction

- Heavy-wall, die-cast aluminum housing and removable hinged door frame
- Optional tamper-resistant fasteners offer vandal resistant access

Optics

- High-efficiency injection-molded AccuLED optics technology
- 10 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- Standard with 0-10V dimming
- Standard with Cooper Lighting Solutions proprietary circuit module designed to withstand 10kV of transient line surge

- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration.

Mounting

- Utilizes "Hook-N-Lock" mounting mechanism, securing to a gasketed and zinc plated mounting attachment
- Two black oxide coated Allen set screws concealed but accessible from below

Finish

Super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness

- RAL and custom color matches available
- Coastal Construction (CC) option available

Warrantv

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



McGraw-Edison

Impact Elite LED

Energy and Performance Data

✔ View Impact Elite IES files

					_	_							
1 Light Squares	s (AF)	Cylinder (ISC) and Quarter Sphere (ISS) Trapezoid (IST) and Wedge (ISW)					1						
Drive Current (r	nA)	350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.1	25.4	34.2	45.2	58.2	66.0	20.1	25.4	34.2	45.2	58.2	66.0
Current (A)	120	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
Current (A)	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
ourient (A)	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics (4000K,	70 CRI)												
	Lumens	2,802	3,500	4,618	5,778	7,231	7,895	2,772	3,475	4,576	5,733	7,175	7,834
T2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	139	138	135	128	124	120	138	137	134	127	123	119
	Lumens	2,778	3,470	4,578	5,729	7,169	7,827	2,731	3,424	4,508	5,648	7,069	7,718
Т3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	121	117
	Lumens	2,751	3,436	4,534	5,673	7,099	7,751	2,762	3,462	4,559	5,712	7,149	7,805
T4FT	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	133	126	122	117	137	136	133	126	123	118
	Lumens	2,780	3,473	4,582	5,733	7,174	7,833	2,739	3,434	4,522	5,665	7,089	7,740
T4W	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	138	137	134	127	123	119	136	135	132	125	122	117
	Lumens	2,763	3,451	4,554	5,698	7,130	7,785	2,730	3,422	4,507	5,646	7,066	7,715
SL2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2
	Lumens Per Watt	137	136	133	126	123	118	136	135	132	125	121	117
	Lumens	2,745	3,429	4,524	5,660	7,084	7,734	2,709	3,396	4,472	5,603	7,012	7,655
SL3	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	137	135	132	125	122	117	135	134	131	124	120	116
	Lumens	2,680	3,348	4,417	5,526	6,916	7,551	2,666	3,342	4,401	5,514	6,900	7,534
SL4	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	133	132	129	122	119	114	133	132	129	122	119	114
	Lumens	2,447	3,057	4,033	5,046	6,315	6,895	2,459	3,083	4,059	5,086	6,365	6,949
SLL	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens Per Watt	122	120	118	112	109	104	122	121	119	113	109	105
	Lumens	2,883	3,601	4,751	5,945	7,440	8,123	2,818	3,533	4,652	5,828	7,294	7,964
RW	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1
	Lumens Per Watt	143	142	139	132	128	123	140	139	136	129	125	121

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
Up to 1A	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.04	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
1.2A	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

Lumen Multiplier

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

* Supported by IES TM-21 standards ** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.



Control Options

0-10V (DIM)

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

Photocontrol (BPC and PR7)

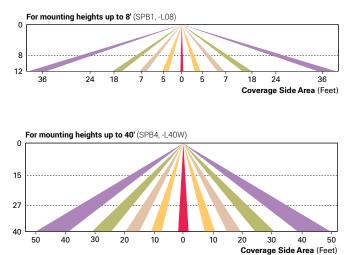
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

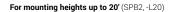
After Hours Dim (AHD)

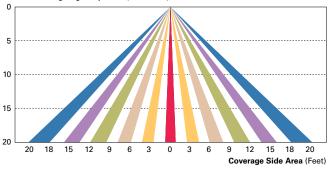
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

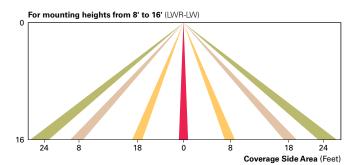


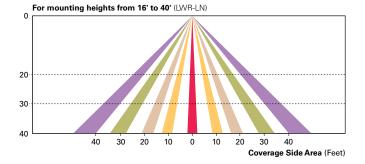




Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.





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

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



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com © 2021 Cooper Lighting Solutions All Rights Reserved. Specifications and dimensions subject to change without notice.

Exterior Egress Lights at secondary facade doors



PG Emergency LED Sconce

FEATURES

Application

The PG is an indoor/outdoor, die-cast architectural emergency unit. It is a wet location listed, emergency luminaire with high-output LED technology that provides path of egress illumination for mounting over entrance/exit ways and perimeter walkways. Spectron® self-testing/selfdiagnostic electronics are included standard. A battery heater for cold temperature operation is available as an option.

Construction

Housing and mounting plate are constructed of 0.125" die-cast aluminum and 0.125" closed-cell, medium density, neoprene gasket. The acrylic lens allows 92% light transmission. The reflector is electropolished aluminum with 95% reflectance. Housing finish is powder coated electro-deposition paint available in four colors: dark bronze, white, platinum silver and black.

Installation

Universal housing knockouts for mounting to standard 31/2" and 4" octagon and 4" square electrical boxes. A 1/2" – 1/4 NPT threaded conduit opening is provided at the top of the housing and sealed with a closure plug. The back plate mounts to the wall surface using installer supplied hardware. The housing "snaps" to the back plate by a "pin and socket" arrangement, and is secured with two Fillister head screws. AC Lockout feature prevents battery discharge prior to initial unit power-up saving installation time.

Lamps

Four high-output, long life LED lamps arranged in redundant pairs.

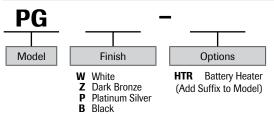
Compliances

UL 924 Listed (emergency models only) UL Wet Location Listed NFPA 101 Life Safety Code NFPA 70 National Electrical Code OSHA U.S. Patent No. D627,916

Warranty

Fixture: 5 Years Full Battery: 2 Years Full, 8 Years Pro Rata Lifetime LED Warranty

ORDERING GUIDE







Catalog Number

PGZ-HTR

Black

Reference "Remote Heads and Fixtures" specification sheet for information on matching PG remote



PGR Remote LED





SPECIFICATIONS

Electronics

Upon failure of the normal utility power, a solid-state transfer switch automatically activates the emergency lamp. Upon resumption of the normal utility power, the battery is disconnected from the load and recharged through a solid-state charging unit. A low voltage battery disconnect feature protects the battery from severe damage during prolonged power failures. Spectron® self-testing/self-

diagnostic circuitry provides automatic system testing on a monthly and semi-annual basis. Manual testing is available at any time using the push-to-test button: push once for a 60-second system test; push twice for a 90-minute system test.

Number of Lamps: Four high output LEDs

Lamp Configuration: Two sets of 2 LEDs provide illumination. In the unlikely event that any single LED should fail the remaining LEDs willcontinue to function. Lamp Type: Solid state high output LEDs

Lamp Color: Cool White, 6350K

Total Lamp Output: 405 Lumens

Input: 120/277VAC, 60 Hz

Battery Charger: Temperature compensating, constant current Transfer: Solid state

Functional Circuitry: AC lockout, transformer isolation, transient surge protection, low voltage battery disconnect, brownout

detection, time delay retransfer

Battery Recharge Cycle: per UL time standards

Test Means: Integral test switch

Battery: Sealed, maintenance-free Nickel-Cadmium

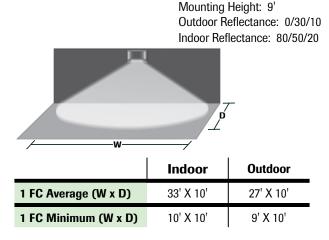
Operating Temperature Range for Models without Heater:

0°C to 50°C (32°F to 122°F)

Operating Temperature Range for Models with Heater: -30°C to 50°C (-22°F to 122°F)

ILLUMINATION PATTERN

SINGLE UNIT COVERAGE

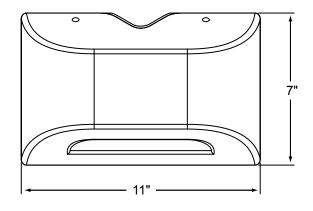


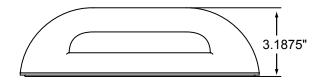
Power Consumption

Models Wit	hout Heater	Models With Heater				
120VAC	2.78 watts	120VAC	15.2 watts			
277VAC	2.88 watts	277VAC	15.7 watts			

Power factor, average: 0.8 (lagging)

DIMENSIONS





MULTIPLE UNIT SPACING

Mounting Height: 9' Illuminated Path Depth: 6' Outdoor Reflectance: 30/10 Indoor Reflectance: 80/50/20

Path of Egress

1 FC Average

	Indoor	Outdoor
1 FC Average	44'	33'
1 FC Minimum	16'	15'

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