



**ADDENDUM  
BOARD OF ZONING APPEALS STAFF REPORT  
BZA 25-009**

**To:** Members of the Board of Zoning Appeals

**From:** Sergio Mendoza, Planning Director

**Meeting Date:** February 10, 2026

**Agenda Item:** BZA 25-009, Developmental Standard Variances, Eads Elementary School.

**Subject:** Addendum to January 13, 2026 BZA Staff Report

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**Purpose**

This memorandum is an addendum to the previously issued staff report regarding the replacement of parking area lighting at Eads Elementary School. The addendum identifies the updated technical and photometric information requested by the Board of Zoning Appeals (BZA) on December 9, 2025, for revised lighting configuration options with performance metrics; to be considered at their January 13, 2026, meeting. On January 13, 2026, the BZA meeting was canceled due to lack of quorum, and the matter of the parking area lighting replacement will now be considered at the February 10, 2026, BZA meeting.

**Update.**

After the December 9, 2025 meeting of the BZA, the applicant coordinated with their lighting contractor/engineer for updated lighting options and performance metrics. The updated plans now read that all pole heights comply with the Town's 20' pole height standards and the applicant would like to proceed with two variance requests. One for the fixture type, and the other for the color temperature. All other lighting configuration remains as previously proposed, consisting of fourteen (14) poles and thirty-one (31) total light fixtures as identified below:

- **P1:** 1 light fixture
- **P2:** 2 light fixtures
- **P3:** 3 light fixtures
- **P4 - P8:** 2 light fixtures
- **P9:** 1 light fixture
- **P10:** 2 light fixtures
- **P11 - P14:** 3 light fixtures

As part of this review, the applicant has also submitted three lighting analysis for three LED color temperature options (3000K, 4000K, and 5000K). Summary findings are provided on the following page:

<u>Lighting Metric</u>	<u>3000K</u>	<u>4000K</u>	<u>5000K</u>
Color	Warm White	Neutral White	Cool White
Pole Height	20 ft	20 ft	20 ft
Parking Area – Avg. Illumination (fc)	2.47	2.83	2.83
Parking Area – Max Illumination (fc)	9	11	11
Roadway – Avg. Illumination (fc)	2.48	2.86	2.87
Roadway – Max Illumination (fc)	10	12	12
Max Spill at 3 ft (fc)	1.68	1.92	1.93
Light Spill at Property Line	0	0	0

### **Staff Findings and Recommendation**

Staff finds that the proposed 20-foot pole height aligns with the Town's standards and that the photometric data complies with the 0 footcandle at property lines regulations, although not regulated in Civic Zone (CZ). In addition, staff finds that the proposed light fixture demonstrates appropriate light shielding and containment on the subject property. Also, staff finds that the illumination levels across all color temperature options are marginal with virtually no difference between 4000k and 5000k.

Staff review of the revised lighting design plans appear to reduce the spillover impacts due to the compliant pole height and light fixture type. Staff also assesses that the 4000k lighting option represents the most appropriate balance of safety, performance, and neighborhood compatibility, supporting clear visibility for student drop-off, evening events, and security while providing a more neutral, comfortable appearance with clarity and reduced glare compared to higher color temperature lighting.

Finally, staff finds that the strict application of the terms for the light fixture type standard and 3000k will result in practical difficulty for directing light and visibility to an institutional use to safely support pedestrian and vehicular circulation and appropriate security. The code compliant 20' pole height and requested 4000k with the proposed lighting fixtures achieve "0" measurable light spill over at the property line and by not using the 5000k color temperature the impacts to adjacent residential properties will be minimized while preserving neighborhood character. Overall, the 4000k color temperature, and proposed light fixture type is reasonable, appropriate, and consistent with the intent of applicable lighting and use standards that support the public health, safety, and general welfare of the community.

Staff requests that these findings supplement and refine the analysis contained in the original staff report and should be considered part of the full record, while all other findings, analysis, and recommendations in the original staff report remain unchanged unless otherwise noted.

BZA may consider the following the motion:

*Motion to approve BZA 25-009, A Developmental Standards Variance for the proposed lighting fixture type and 4000k color temperature as presented, including all discussions and findings:*

### **Attachments:**

- Eads Elementary 4000K Lighting Plan (6 pages)



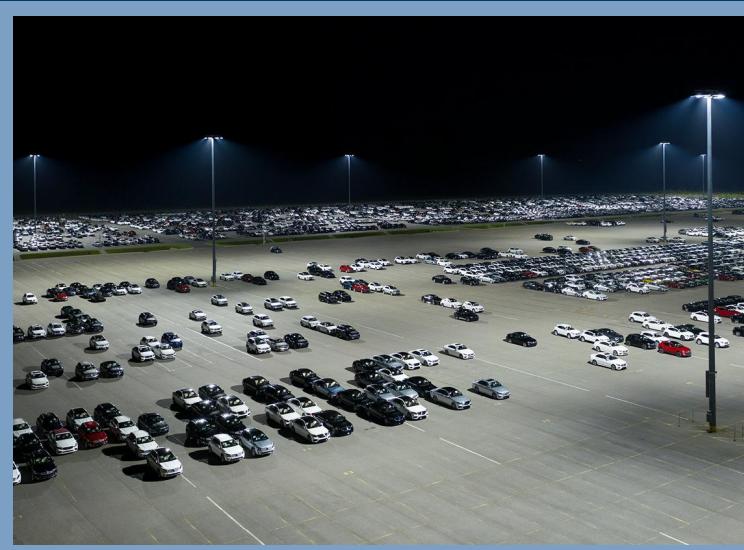
We Make It Happen®



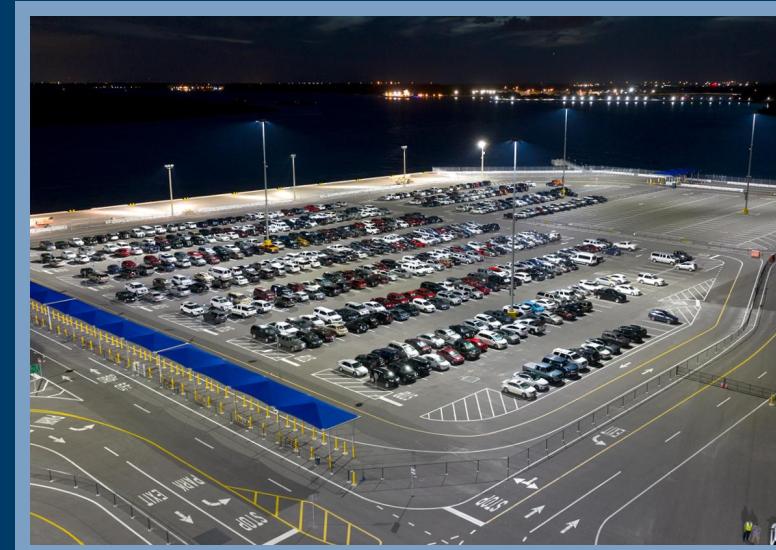
John Porter Library, Stafford, Virginia, USA



Smokey Row, Des Moines, Iowa, USA



Mercedes-Benz Vehicle Center, Brunswick, Georgia, USA



Jaxport Cruise Terminal, Jacksonville, Florida, USA

## James B Eads Elementary School Parking Munster, IN



Sales Representative: Brent Castle · Designed By: Sammi Yelkin · Design No.: 246298C - 4000K · January 07, 2026

# James B Eads Elementary School Parking

Munster, IN

## LIGHTING SYSTEM

### Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
P1	20'	20'	1	LSI VALS	0.11 kW	A
P2	20'	20'	2	LSI VALS	0.22 kW	A
P3	20'	20'	3	LSI VALS	0.33 kW	A
P4-P8	20'	20'	2	LSI VALS	0.22 kW	A
P9	20'	20'	1	LSI VALS	0.11 kW	A
P10	20'	20'	2	LSI VALS	0.22 kW	A
P11-P14	20'	20'	3	LSI VALS	0.33 kW	A
<b>14</b>			<b>31</b>		<b>3.44 kW</b>	

### Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Parking	3.44 kW	31

### Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
LSI VALS	A	LED 4000K - 70 CRI	111W	13,564	--	--	--	30
LSI VALS	A	LED 4000K - 70 CRI	111W	14,806	--	--	--	1

### Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
LSI VALS	-	-	-	-	-	-	-

### Light Level Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Parking	Horizontal Illuminance	2.83	0	11	969.86	253.37	A	31
Road Way	Horizontal Illuminance	2.86	0	12	497.30	121.92	A	31

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



**Equipment List For Areas Shown**

Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
2	P1 P9	20'	-	20'	LSI VALS	1	1	0
7	P2 P4-P8 P10	20'	-	20'	LSI VALS	2	2	0
1	P3	20'	-	20'	LSI VALS	1/2*	3	0
4	P11-P14	20'	-	20'	LSI VALS	2/1*	3	0
14	Totals					31	31	0

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60



ENGINEERED DESIGN By: Sammi Yelkin • File #246298C - 4000K • 07-Jan-26

 Pole location(s) dimensions are relative  
to 0,0 reference point(s) 

**James B Eads Elementary School Parking**

Munster, IN

**Grid Summary**

 Name: Road Way  
Size: 575' x 400'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

**Illumination Summary**

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Scan Average	2.86
Maximum	12
Minimum	0
Avg/Min:	121.92
Max/Min:	497.30
UG (adjacent pts):	9.26
CU:	0.36
CV:	0.82
No. of Points:	530

**Fixture Information**

 Applied Circuits: A  
No. of Fixtures: 31  
Total Load: 3.44 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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**ILLUMINATION SUMMARY**

**Equipment List For Areas Shown**

QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	Fixtures				
				ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
2	P1 P9	20'	-	20'	LSI VALS	1	1	0
7	P2 P4-P8 P10	20'	-	20'	LSI VALS	2	2	0
1	P3	20'	-	20'	LSI VALS	1/2*	3	0
4	P11-P14	20'	-	20'	LSI VALS	2/1*	3	0
14	Totals			31	31	0		

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration


**James B Eads Elementary School Parking**
**Munster,IN**
**Grid Summary**

Name: Parking  
 Size: 580' x 100'  
 Spacing: 10.0' x 10.0'  
 Height: 3.0' above grade

**Illumination Summary**

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid  
 Scan Average: 2.83  
 Maximum: 11  
 Minimum: 0  
 Avg/Min: 253.37  
 Max/Min: 969.86  
 UG (adjacent pts): 2.79  
 CU: 0.26  
 CV: 0.80  
 No. of Points: 386

**Fixture Information**

Applied Circuits: A  
 No. of Fixtures: 31  
 Total Load: 3.44 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

# James B Eads Elementary School Parking

Munster, IN

## Grid Summary

Name: Spill  
Size: 580' x 100'  
Spacing: 30.0' x 10.0'  
Height: 3.0' above grade

## Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

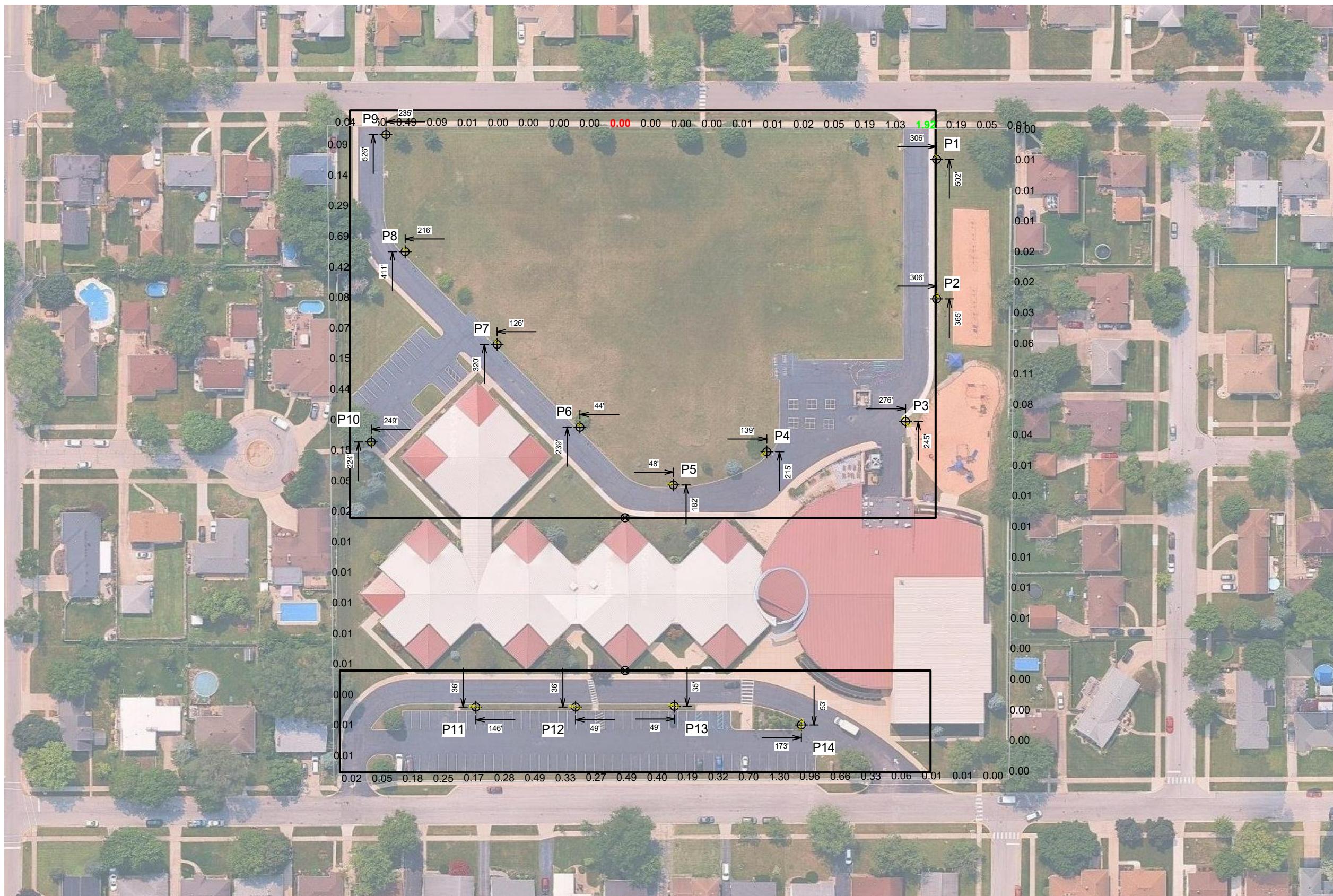
Entire Grid	
Scan Average	0.18
Maximum	2
Minimum	0
No. of Points	88
Fixture Information	
Applied Circuits	A
No. of Fixtures	31
Total Load	3.44 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



# James B Eads Elementary School Parking

Munster, IN

## Equipment Layout

### INCLUDES:

- Parking
- Roadway

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

## Equipment List For Areas Shown

QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	Fixtures		QTY/POLE
				ABOVE GLOBAL LEVEL	Fixture Type	
2	P1 P9	20'	-	20'	LSI VALS	1
7	P2 P4-P8 P10	20'	-	20'	LSI VALS	2
1	P3	20'	-	20'	LSI VALS	1/2*
4	P11-P14	20'	-	20'	LSI VALS	2/1*
14				Totals		31

\*This structure utilizes a back-to-back mounting configuration

Above Global Level is height of fixtures above design (0,0,0)

## Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)
LSI VALS	-	-	-	-	-	-	-



SCALE IN FEET 1 : 100  
0' 100' 200'  
Pole location(s) dimensions are relative to 0,0 reference point(s)

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EQUIPMENT LAYOUT