Louisburg Board of Zoning Appeals Meeting
6:00 P.M. MAY 28, 2025
City Council Meeting
Room 215 S. Broadway
AGENDA

Livestream link:

https://boxcast.tv/view/board-of-zoning-appeals-tvpscu2uxmiw7axhakrb

Item 1: CALL TO ORDER

Item 2: PLEDGE OFALLEGIANCE

Item 3: ADOPTION OF THE AMENDED AGENDA

Item 4: APPROVAL OF THE MINUTES – of the Nov. 30, 2022, meeting

PUBLIC HEARING BUSINESS ITEMS:

Item 5: 25001-VAR (Variance) – 505 East Amity Street (Louisburg Middle School / High School), Request to deviate from the maximum structure height allowed in an R-1 zoning district to allow for sports field lighting at baseball and softball fields. (Parcel ID: 1093202001001000)

Item 6: NON-PUBLIC HEARING BUSINESS ITEMS:

Election of Board of Zoning Appeals Chairman, Vice-Chairman and Secretary in accordance with Chapter XVI, Article 2, Paragraph 16-203 of the City Code:
(a) The board of zoning appeals shall annually elect a chairperson, a vice-chairperson, and such other officers as may be necessary and they shall serve as such for one year and until their successors have been selected. The board shall elect a secretary who shall keep a complete and accurate record of all proceedings, hearings, and actions of the board. The secretary may either be a member of the board or someone else who is not a member of the board.

Item 7: ADJOURNMENT

LOUISBURG BOARD OF ZONING APPEALS
MEETING MINUTES
WEDNESDAY NOVEMBER 30, 2022

The Board of Zoning Appeals of the City of Louisburg, Kansas met at 6:00 p.m. in the City Hall Council Chambers with Chairperson Andy Sauber presiding.

ATTENDANCE:

Commission Members:	Betty Brown, Jason Burk, Chris Hoffman and Thorvald McKiearnan
City Council:	Mayor Donna Cook, TJ Williams, Steve Town and Tiffany Ellison
City Administrator:	Nathan Law
Staff:	Jean Carder
Recording Secretary:	Robert Lake
Visitors:	Roger Ostmeyer

Item 1: ROLL CALL

Item 2: ADOPTION OF THE AGENDA:
Chris Hoffman moved to make a motion to approve the agenda, was seconded by Jason Burk and passed 4-0, to approve the agenda.

Item 3: APPROVAL OF THE MINUTES:
Thorvald McKiearnan asked for a motion to approve the minutes from the April 27, 2022, meeting. Jason Burk moved, to approve the minutes. Seconded by Hoffman and passed 4-0 to approve the minutes.

Item 4: NON-PUBLIC HEARING ITEMS:

None.

PUBLIC HEARING BUSINESS ITEMS:

Item 5: 22002-VAR (Variance) – 408 South Metcalf Road (Citizens Bank), Request to deviate from the minimum front and rear yard setback requirements. (Parcel ID: 1093101033001000).

Thorvald McKiearnan asked the Citizens Bank representative Roger Ostmeyer, if there was anything to add to the information they had in front of them. Ostmeyer said the back of the building exceeds the rear setback amount required but it is due to the drive-thru canopy.

McKiearnan asked if anyone from the public wished to speak. No one did. McKiearnan closed the public hearing portion of the meeting.

The board began discussion regarding the variances. The proposed rear setback would be changed from 25 feet to 14.8 feet and the front setback with are 25 feet down to 13.6 feet. McKiearnan asked where they obtained the variance measurements from. Ostmeyer advised the building sits centered on the lot for better access for 4th and 5th street entrances. The design and placement was created to provide a better lawn presentation and for incoming traffic entrances and exits so they may be further away from Metcalf Road.

No further questions were asked.

The Board of Zoning Appeals then discussed the following factors in relation to the variance requests submitted by the developer:

A. ***UNIQUENESS:*** The variance requested arises from conditions which are unique to the property in question, which are not ordinarily found in the same zoning district, and which are not caused by actions of the property owners or applicant. Such conditions include the peculiar physical surroundings, shape, or topographical condition of the specific property involved which would result in a practical difficulty or unnecessary hardship for the applicant, as distinguished from a mere inconvenience, if the requested variance was not granted.

B. ***ADJACENT PROPERTY.*** The granting of the variance will not be materially detrimental or adversely affect the rights of adjacent property owners or residents.

C. ***HARDSHIP:*** The strict application of the provisions of the zoning regulations from which a variance is requested will constitute an unnecessary hardship upon the applicant. Although the desire to increase the profitability of the property may be an indication of hardship, it shall not be a sufficient reason by itself to justify the variance.

D. ***PUBLIC INTEREST:*** The variance desired will not adversely affect the public health, safety, morals, order, convenience, or general welfare of the community. The proposed variance shall not impair an adequate supply of light or air to adjacent property, substantially increase the congestion in the public streets, increase the danger of fire, endanger the public safety, or substantially diminish or impair property values within the neighborhood.

E. ***SPIRIT AND INTENT:*** Granting the requested variance will not be opposed to the general spirit and intent of the zoning regulations.

F. ***MINIMUM VARIANCE:*** The variance requested is the minimum variance that will make possible the reasonable use of the land or structure.

The Board of Zoning Appeals did not find any issues with the above mentioned factors.

After additional discussion, Thorvald McKiearnan requested a motion for approval for both variances as written. Chris Hoffman moved, and Jason Burk second and carried 4-0, to approve the variance requests.

Item 6: ADJOURNMENT:

A motion was made by Betty Brown to adjourn the meeting. Second was made by Chris Hoffman. The motion passed 4-0. Meeting adjourned at 6:11 p.m.

Submitted by Robert Lake

City of Louisburg Board of Zoning Appeals Staff Report

MEETING DATE: May 28, 2025
REPORT WRITTEN: May 21, 2025

LOUISBURG MIDDLE SCHOOL / HIGH SCHOOL – REQUEST FOR APPROVAL OF A VARIANCE TO MAXIMUM STRUCTURE HEIGHT – Located south of East Amity Street and north of Aquatic Drive – Case 25001-VAR – **PUBLIC HEARING**

APPLICANT:

- The applicant is the City of USD 416 represented by Dr. Brian Biermann, Superintendent.
- The architect is Hollis + Miller Architects.
- The engineer / landscape architect is Mkec Engineering.
- The lighting engineer is Smith & Boucher Engineers.

REQUEST:

- The applicant is requesting approval of a variance to allow sports lighting poles that exceed the maximum allowed structure height within an R-1 zoning district.

LOCATION:

ZONING:

- The property is currently zoned R-1 (Single-Family Dwelling District).

COMPREHENSIVE PLAN:

- The Comprehensive Plan designates this property as Public / Semi-Public.

SURROUNDING ZONING:

- North – C-4 – Special Use Business District (Bus Barn), C-3 – General Business District, and property located within Miami County.
- South – R-1 Single-Family Dwelling District
- East – R-1 Single-Family Dwelling District
- West – R-1 Single-Family Dwelling District

VARIANCE REQUESTED:

- Zoning Regulations, Section 502(E): Height Regulations. Maximum structure height: thirty-five (35) feet.
    - The subject property is located in an R-1, Single-Family Dwelling District.
    - The property currently houses the Louisburg Middle & High School campuses, parking, and practice sports fields.
    - The applicant came to the April 30, 2025 Planning Commission meeting requesting approval for new baseball / softball fields (and associated equipment such as dugouts, light poles, fencing, etc.). The overall site plan was approved with stipulations, but the lighting portion was removed for further consideration by the Board of Zoning Appeals due to height issues. If the variance is approved by the BZA, the lighting will need to be heard and approved at the May 28, 2025 Planning Commission meeting.
    - The maximum structure height in an R-1 zoning district is 35'-0".
    - The applicant is proposing the use of 70'-0" – 80'-0" light poles to light the proposed varsity and junior varsity baseball and softball sports fields. The contractor for these is Musco lighting. The applicant looked at multiple options for the lighting, including shorter poles, but found that the safest, least intrusive and best way to adequately light the fields is to have the taller poles. The proposed height exceeds the 35'-0" height allowance in an R-1 zoning district.
    - Approved lighting would be required to meet the standard set by the Planning Commission for allowed foot-candles at the property lines, as well as shielding/cutoff and timer requirements.

PUBLIC NOTIFICATION:

- The City provided written notice of this public hearing to all property owners within the required 200-foot radius of the subject property.
- A public notice was placed in the newspaper to advertise for this public hearing, and the ad appeared in the May 7, 2025 version of the Miami County Republic.
- To date, Staff has not received any comments from neighbors concerning this proposal.

BZA FACTORS:

The character of the neighborhood:

The subject property is located south of East Amity Street and north of Aquatic Drive. The area is characterized by residential and institutional uses, and arterial and collector streets.

The zoning and uses of properties nearby:

- North – C-4 – Special Use Business District (Bus Barn), C-3 – General Business District, and property located within Miami County.
- South – R-1 Single-Family Dwelling District
- East – R-1 Single-Family Dwelling District
- West – R-1 Single-Family Dwelling District

BZA Consideration:

The Board of Zoning Appeals shall hear all facts and testimony from all parties wishing to be heard concerning the requested variance. In each case, the Board of Zoning Appeals shall not grant a variance unless it finds, based on the evidence presented, facts which conclusively support all of the following findings:

1. UNIQUENESS: The variance requested arises from conditions which are unique to the property in question, and which are not ordinarily found in the same zoning district, and which are not caused by actions of the property owners or applicant. Such conditions include the peculiar physical surroundings, shape, or topographical condition of the specific property involved which would result in a practical difficulty or unnecessary hardship for the applicant, as distinguished from a mere inconvenience, if the requested variance was not granted.

    a. Applicant Response: *While schools are allowed in an R-1 Zoning (Residential), they are inherently unique from their adjacent neighbors based on the scale and unique needs of a school versus a home/residential property. To provide safe access and travel to practice and competition fields, the proposed location for the improved fields including* ***70' tall sports lighting, that is already used for school activities, such as band practice,*** *athletic practices and physical education classes.*

2. ADJACENT PROPERTY: The granting of the variance will not be materially detrimental or adversely affect the rights of adjacent property owners or residents.

    a. Applicant Response: *With this property currently being a school with athletic fields and activities (baseball, t-ball, practice, etc.) occurring on this proposed site, this will not detrimentally or adversely affect the rights of adjacent property owners. There are currently streetlights and other lights on adjacent properties and at the school surrounding the current properties, and the new sports lighting is not anticipated to be used past 9/9:30pm and as such with the cut off levels of lights at the property line, adjacent property owners will not be adversely affected.*

3. HARDSHIP: The strict application of the provisions of the zoning regulations from which a variance is requested will constitute an unnecessary hardship upon the applicant. Although the desire to increase the profitability may be an indication of hardship, it shall not be a sufficient reason by itself to justify the variance.

    a. Applicant Response: ***Currently, city ordinance notes that no 'Structures' may be greater than 35'-0" tall with the exception of barns and silos. It is our interpretation that the*** *intent of this requirement is to restrict large structures (buildings, etc.) that will produce large shadows and block light and air from being located in a residential neighborhood and is not intended to restrict items such as light poles from being installed where* ***necessary. Given light poles are being classified as a 'Structure',*** *this is a hardship as it* ***is not possible for them to be engineered safely at a height lower than the proposed 70'-0" poles for baseball and softball functions.***

4. PUBLIC INTEREST: The variance desired will not adversely affect the public health, safety, morals, order, convenience, or general welfare of the community. The proposed variance shall not impair an adequate supply of light or air to adjacent property, substantially increase the congestion in the public streets, increase the danger of fire, endanger the public safety, or substantially diminish or impair property values within the neighborhood.

    a. Applicant Response: *The proposed variance will not adversely affect the public health, safety, morals, order, convenience, or general welfare of the community. These light poles, while tall will not limit the supply or light or air to adjacent properties, and will not impact public streets, or endanger fire or public safety. As such this property is currently a school already, it should not have any impact on property values as the function of the site is not changing.*

5. SPIRIT AND INTENT: Granting the requested variance will not be opposed to the general spirit and intent of the zoning regulations.

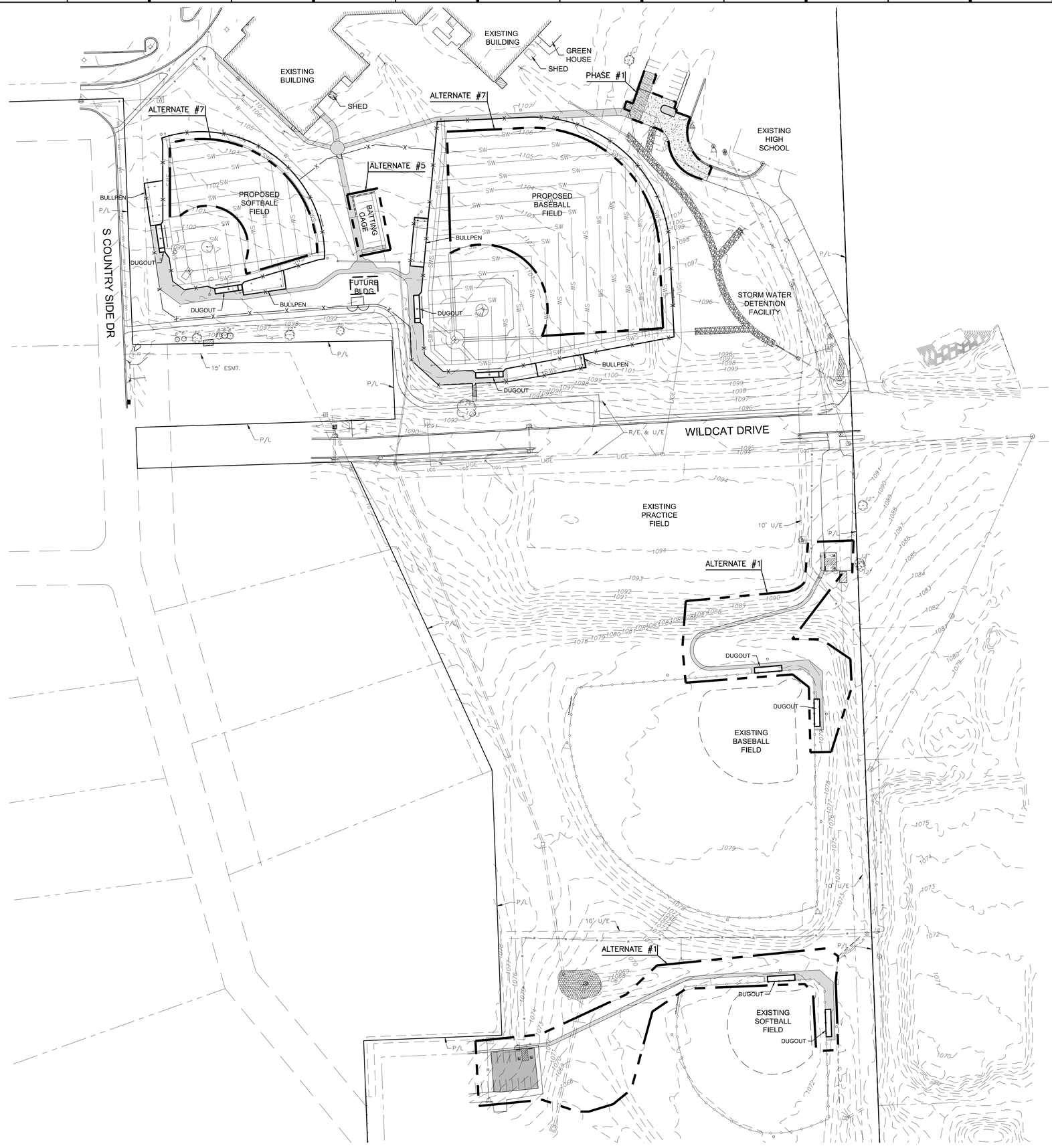
    a. Applicant Response: *Schools are common occurrences in R-1 zoning to provide close proximity and strong community ties to the neighborhoods and patrons that attend them. Appropriate and safe fields to support the physical, mental health and well-being of students and community members are elements of those schools needed to provide varied experiences for students attending those schools. This is in line with the general spirit and intent of the zoning regulations.*

6. MINIMUM VARIANCE: The variance requested is the minimum variance that will make possible the reasonable use of the land or structure.

    a. Applicant Response: *Correct, the design team and Owner have worked diligently with sports lighting engineers to provide the least intrusive solution to safely light the improved fields while also minimizing light spill at property line, so neighbors are*

minimally impacted. As noted by Planning Commission members, the similar installation at the football field provides great lighting on the field, without spilling light on adjacent properties.

NOTE: Variance requests do not need additional consideration by the City Council for approval.



ALTERNATES

ALTERNATE #1
- ADA PARKING STALLS, PROPOSED PAVEMENT, SIDEWALK, AND ASSOCIATED GRADING

ALTERNATE #5
- PROPOSED BATTING CAGE WITH ASSOCIATED SIDEWALK AND RETAINING WALL

ALTERNATE #7
- BASE BID – NATURAL GRASS OUTFIELD, ADS ADVANEDGE DRAIN WITH GEOTEXTILE WRAP DRAINAGE SYSTEM
- ALTERNATE – SYNTHETIC TURF OUTFIELD, ADS ADVANEDGE DRAIN

PHASES

PHASE #1
- CONCRETE DRIVE AND PARKING MODIFICATIONS, SECTIONALIZER RELOCATION & ASSOCIATED ELECTRICAL MODIFICATIONS TO BE COMPLETED BY AUGUST 10TH, 2025.

MKEC
Overland Park, KS • 913.317.9390
MKEC Project No. 2402010875

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Smith & Boucher
Mech/Elect Engineer
Certificate of Authority #EGC-0001787
25618 W 103rd St
Olathe, KS 66061
913-344-0033 phone

Intertek PSI
Geotechnical Engineer
2828 S. 44th St.
Kansas City, KS 66106
913-310-1600 phone

LOUISBURG BASEBALL - SOFTBALL FIELDS

Louisburg School District, USD 416

202 Aquatic Dr Louisburg, KS 66053

CONSTRUCTION DOCUMENTS

REVISIONS:

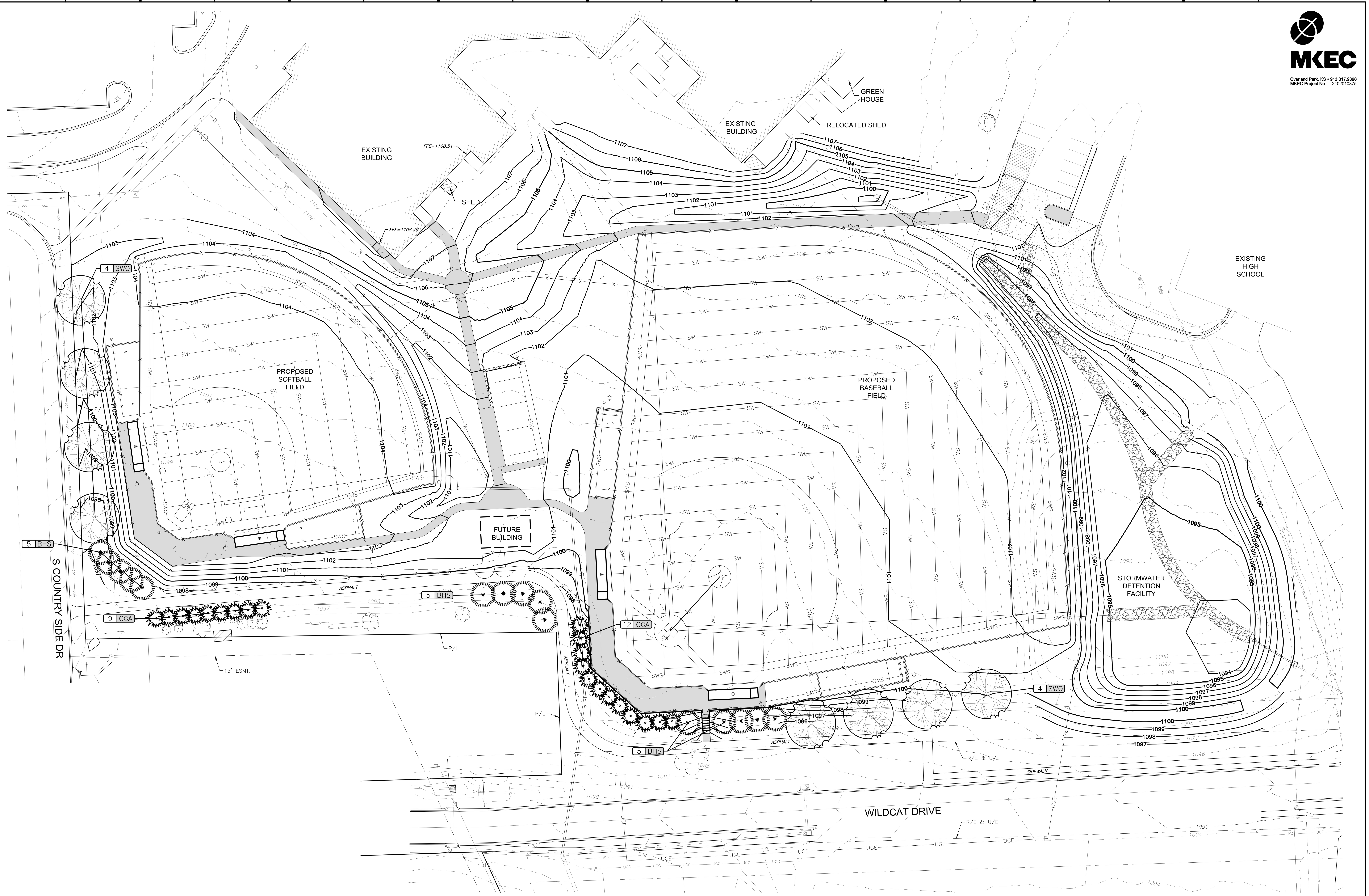
#	Description	Date

JOB NO: 24242.00
DRAWN BY: JLB
CHECKED BY: MKB
DATE: 04.07.2025

C103

OVERALL SITE PLAN

P:\PROJECTS\2024\24202010875_LOUISBURG SD_NEW BALLFIELD COMPLEX\DWG\24-0875 CAD\SHTS\05 CIVIL\C103\24-0875_C-103-CD.DWG



ORIGINAL PLANT SCHEDULE

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE & METHOD OF HANDLING
DECIDUOUS TREES				
SWO	8	SWAMP WHITE OAK	QUERCUS BICOLOR	2.0" CAL, 12' MIN. HT.
EVERGREEN TREES				
BHS	15	BLACK HILLS SPRUCE	PICEA GLAUCA 'DENSATA'	5' MIN.
GGA	21	GREEN GIANT ARBORVITAE	THUJA STANDISHII X PLICATA 'GREEN GIANT'	3 GAL.
GROUND COVER				
TURF	N/A	FESCUE TURF GRASS	SEE LANDSCAPE NOTES	SEED

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Smith & Boucher
Mech/Elect Engineer
Certificate of Authority #EGC-0001787
25618 W 103rd St
Olathe, KS 66061
913-344-0033 phone

Intertek PSI
Geotechnical Engineer
2828 S. 44th St.
Kansas City, KS 66106
913-310-1600 phone

LOUISBURG BASEBALL - SOFTBALL FIELDS
Louisburg School District, USD 416
202 Aquatic Dr Louisburg, KS 66053

CONSTRUCTION DOCUMENTS

REVISIONS:

#	Description	Date

BRIAN J. HOCHSTEIN LICENSED LANDSCAPE ARCHITECT KANSAS 745 04.07.2025

JOB NO: 24242.00
DRAWN BY: BJH
CHECKED BY: BJH
DATE: 04.07.2025

L101

LANDSCAPE PLAN

Please consider the environment before printing this.

Louisburg High School Baseball Softball

Louisburg, KS

Lighting System

Pole/Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	A
		40'	1	Cree OSQ	0.10 kW	D
		16'	1	TLC-BT-575	0.57 kW	A
A3-A4	60'	60'	1	TLC-LED-1200	1.17 kW	B
		60'	2	TLC-LED-900	1.76 kW	B
		40'	1	Cree OSQ	0.10 kW	D
		16'	1	TLC-BT-575	0.57 kW	B
A5-A6	70'	70'	3	TLC-LED-900	2.64 kW	H
		40'	1	Cree OSQ	0.10 kW	J
		16'	1	TLC-BT-575	0.57 kW	H
A7-A8	60'	60'	2	TLC-LED-900	1.76 kW	I
		40'	1	Cree OSQ	0.10 kW	J
		16'	1	TLC-BT-575	0.57 kW	I
B1	80'	80'	7	TLC-LED-1500	9.87 kW	A
		80'	2	TLC-LED-550	1.08 kW	C
		40'	1	Cree OSQ	0.10 kW	D
		16'	1	TLC-BT-575	0.57 kW	A
B2	80'	80'	7	TLC-LED-1500	9.87 kW	A
		40'	1	Cree OSQ	0.10 kW	D
		16'	1	TLC-BT-575	0.57 kW	A
B3	70'	70'	5	TLC-LED-1200	5.85 kW	B
		40'	1	Cree OSQ	0.10 kW	D
		16'	2	TLC-BT-575	1.15 kW	B
B4	70'	70'	2	TLC-LED-550	1.08 kW	C
		70'	5	TLC-LED-1200	5.85 kW	B
		40'	1	Cree OSQ	0.10 kW	D
		16'	2	TLC-BT-575	1.15 kW	B
B5-B6	70'	70'	5	TLC-LED-1200	5.85 kW	H
		16'	1	TLC-BT-575	0.57 kW	H
B7	70'	70'	3	TLC-LED-1200	3.51 kW	I
		16'	1	TLC-BT-575	0.57 kW	I
B8	70'	70'	3	TLC-LED-1200	3.51 kW	I
		40'	1	Cree OSQ	0.10 kW	J
		16'	1	TLC-BT-575	0.57 kW	I
C1-C2	80'	80'	5	TLC-LED-1200	5.85 kW	A
		40'	1	Cree OSQ	0.10 kW	D
		16'	2	TLC-BT-575	1.15 kW	A
C3-C4	70'	70'	4	TLC-LED-1200	4.68 kW	H
		16'	2	TLC-BT-575	1.15 kW	H
20			**127**		**113.85 kW**	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Varsity Baseball	45.40 kW	40
B	Varsity Softball	21.01 kW	22
C	Batting Cage	2.16 kW	4
D	Security	1.00 kW	10
H	JV Baseball	30.94 kW	32
I	JV Softball	12.84 kW	14
J	Security	0.50 kW	5

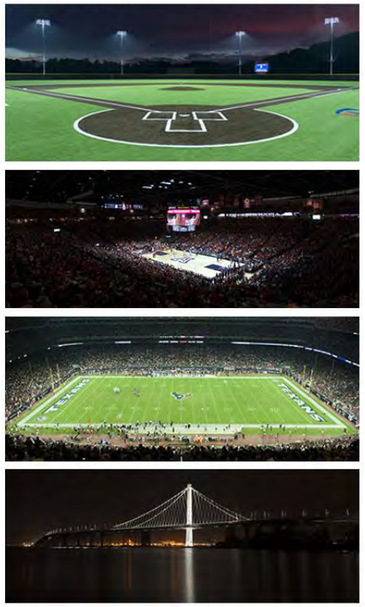
Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
Cree OSQ	LED 5700K - 70 CRI	100W	14,743	--	--	--	15
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	26
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	54
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	14
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	4
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	14

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
CREE OSQ	-	-	-	-	0.3	-	0.2
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

From Hometown to Professional



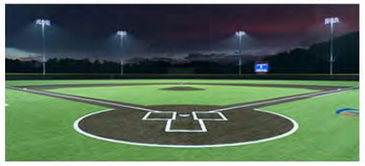
ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

We Make It Happen.

Louisburg High School Baseball Softball

Louisburg, KS

From Hometown to Professional



Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Batting Cage	Horizontal	22.88	20.6	24.5	1.19	1.11	C	4
JV Baseball (Infield)	Horizontal Illuminance	31.42	22.0	35.9	1.63	1.43	H	32
JV Baseball (Outfield)	Horizontal Illuminance	23.64	16.2	30.1	1.85	1.46	H	32
JV Baseball/Softball 150' Glare @ 5ft.	Max Candela (by Fixture)	1288.4281	3.852	6577.445	1707.405	334.456	H,I,J	51
JV Baseball/Softball 150' Spill @ 3ft.	Horizontal Illuminance	0.0108	0.000	0.049	-	-	H,I,J	51
JV Baseball/Softball 150' Spill @ 5ft.	Max Vertical Illuminance Metric	0.0284	0.000	0.139	-	-	H,I,J	51
JV Softball (Infield)	Horizontal Illuminance	32.96	23.7	39.0	1.65	1.39	I	14
JV Softball (Outfield)	Horizontal Illuminance	22.76	14.7	27.4	1.86	1.55	I	14
Residential Property Line Glare @ 5ft.	Max Candela (by Fixture)	4645.9292	2.188	21333.736	9752.387	2123.814	A,B,C,D,H,I,J	127
Residential Property Line Spill @ 3ft.	Horizontal Illuminance	0.0638	0.000	0.413	-	-	A,B,C,D,H,I,J	127
Residential Property Line Spill @ 5ft.	Max Vertical Illuminance Metric	0.1448	0.000	0.860	-	-	A,B,C,D,H,I,J	127
Security (JV Fields)	Horizontal	0.46	0.1	2.5	49.22	9.22	J	5
Security (Varsity Fields)	Horizontal	0.48	0.1	2.5	49.68	9.51	D	10
Varsity Baseball (Infield)	Horizontal Illuminance	51.46	40.2	57.8	1.44	1.28	A	40
Varsity Baseball (Outfield)	Horizontal Illuminance	32.26	22.8	46.5	2.04	1.42	A	40
Varsity Baseball - 1st Base Bullpen	Horizontal	31.04	25.3	37.1	1.47	1.23	A	40
Varsity Baseball - 3rd Base Bullpen	Horizontal	31.57	26.4	38.5	1.46	1.19	A	40
Varsity Baseball/Softball 150' Glare @	Max Candela (by Fixture)	2406.5935	5.538	6394.747	1154.638	434.536	A,B,C	66
Varsity Baseball/Softball 150' Spill @	Horizontal Illuminance	0.0248	0.000	0.086	-	-	A,B,C	66
Varsity Baseball/Softball 150' Spill @	Max Vertical Illuminance Metric	0.0597	0.000	0.201	-	-	A,B,C	66
Varsity Softball (Infield)	Horizontal Illuminance	52.79	41.3	63.2	1.53	1.28	B	22
Varsity Softball (Outfield)	Horizontal Illuminance	32.48	22.7	45.3	1.99	1.43	B	22
Varsity Softball - 1st Base Bullpen	Horizontal	31.69	25.2	39.4	1.56	1.26	B	22
Varsity Softball - 3rd Base Bullpen	Horizontal	31.48	24.5	39.4	1.61	1.28	B	22

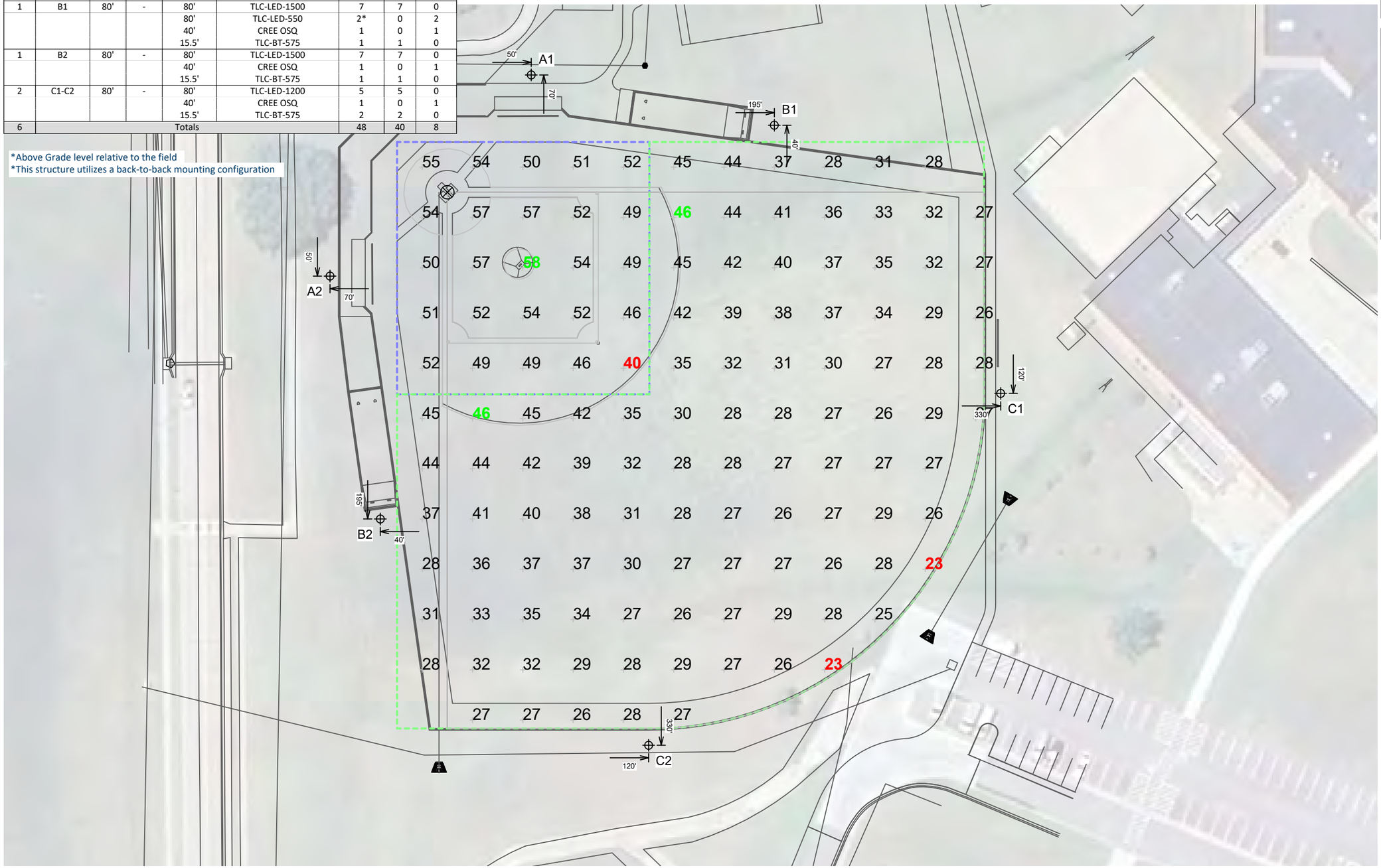
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
6	Totals					48	40	8

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Varsity Baseball**
Size:	Irregular 320'/370'/320'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	51.46	32.26
Maximum:	57.8	46.5
Minimum:	40.2	22.8
Avg/Min:	1.28	1.42
Guaranteed Max/Min:	**2**	**2**
Max/Min:	1.44	2.04
UG (adjacent pts):	1.15	1.33
CU:	0.72	
No. of Points:	25	103
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	**40**	
Total Load:	45.40 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 60

0' 60' 120'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
6	Totals					48	40	8

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration

SCALE IN FEET 1 : 20
0' 20' 40'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**Varsity Baseball - 1st Base Bullpen**
Size:	Irregular 320'/370'/320'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	**31.04**
Maximum:	37.1
Minimum:	25.3
Avg/Min:	1.23
Max/Min:	**1.47**
UG (adjacent pts):	1.39
CU:	0.01
No. of Points:	14
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	**40**
Total Load:	45.40 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
6	Totals					48	40	8

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration

Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**Varsity Baseball - 3rd Base Bullpen**
Size:	Irregular 320'/370'/320'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	**31.57**
Maximum:	38.5
Minimum:	26.4
Avg/Min:	1.19
Max/Min:	**1.46**
UG (adjacent pts):	1.42
CU:	0.01
No. of Points:	14
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	**40**
Total Load:	45.40 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 20

0' 20' 40'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

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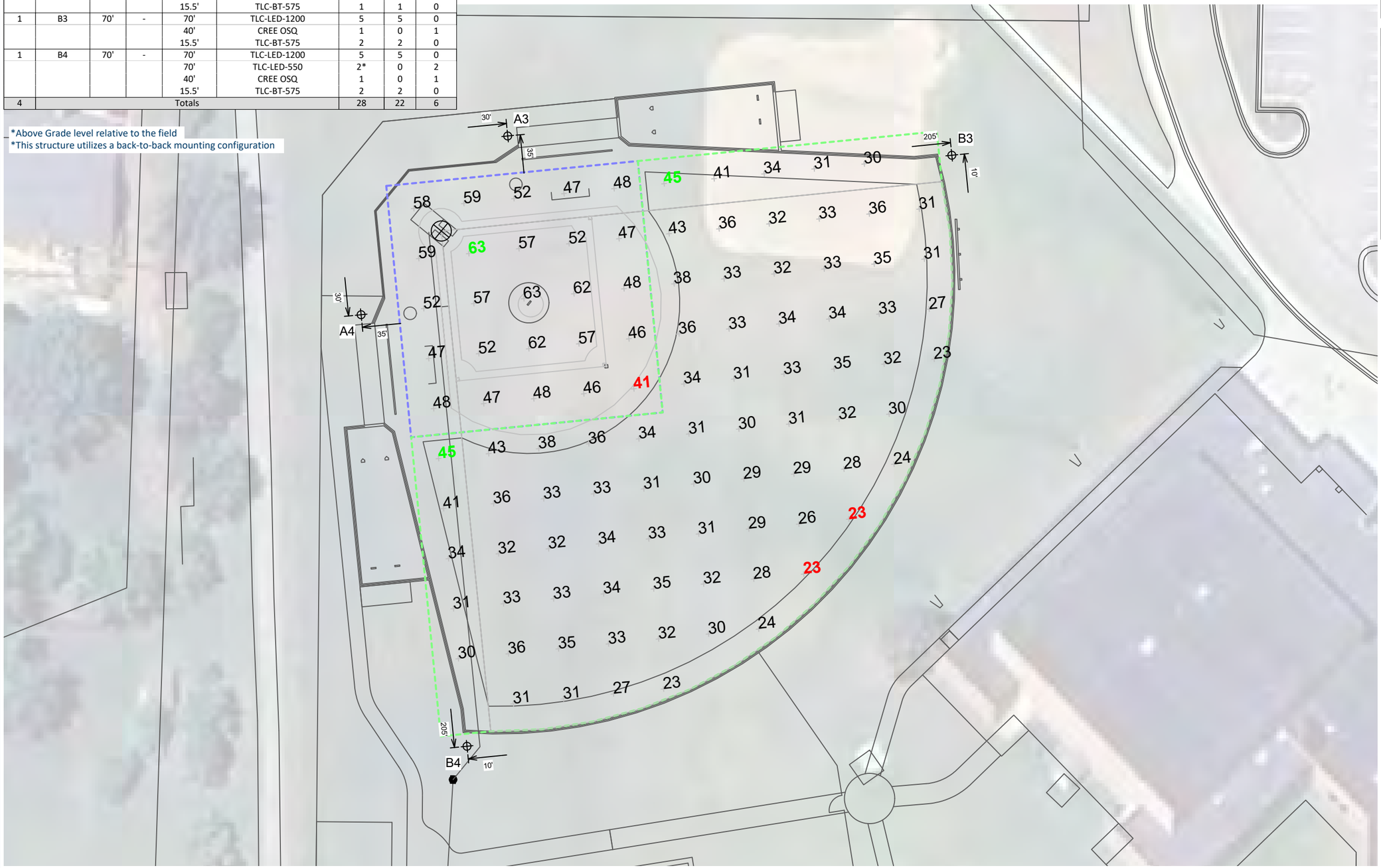
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	22	6

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Varsity Softball**
Size:	200'/210'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	52.79	32.48
Maximum:	63.2	45.3
Minimum:	41.3	22.7
Avg/Min:	1.28	1.43
Guaranteed Max/Min:	**2**	**2.5**
Max/Min:	1.53	1.99
UG (adjacent pts):	1.31	1.37
CU:	0.61	
No. of Points:	25	77
LUMINAIRE INFORMATION		
Applied Circuits:	B	
No. of Luminaires:	**22**	
Total Load:	21.01 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 40

0' 40' 80'

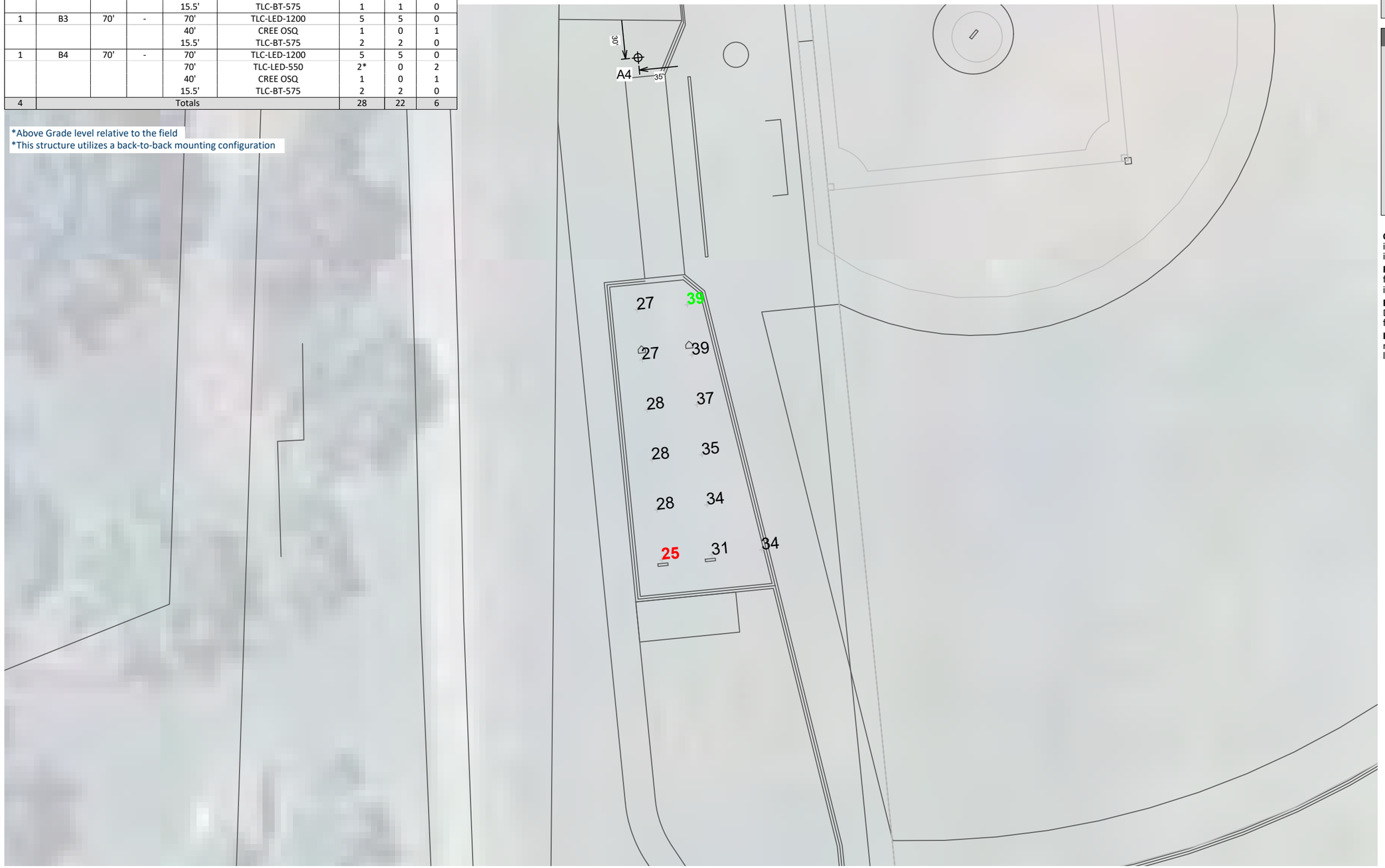
ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	22	6

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20
0' 20' 40'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**Varsity Softball - 1st Base Bullpen**
Size:	200'/210'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**31.69**
Maximum:	39.4
Minimum:	25.2
Avg/Min:	1.26
Max/Min:	**1.56**
UG (adjacent pts):	1.49
CU:	0.02
No. of Points:	13
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	**22**
Total Load:	21.01 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

musco Lighting
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Louisburg High School Baseball Softball

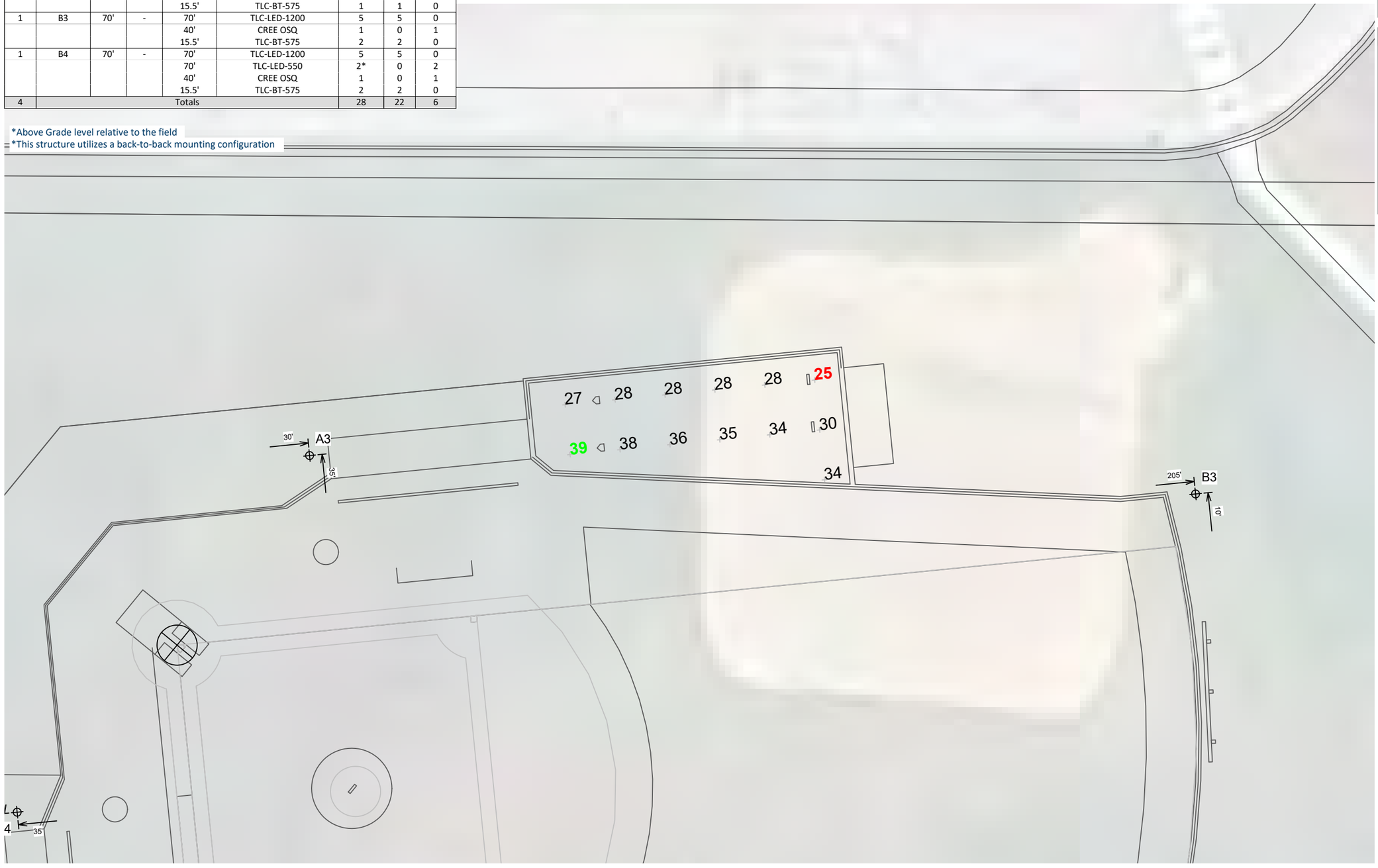
Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	22	6

*Above Grade level relative to the field

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



Grid Summary

Name:	**Varsity Softball - 3rd Base Bullpen**
Size:	200'/210'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**31.48**
Maximum:	39.4
Minimum:	24.5
Avg/Min:	1.28
Max/Min:	**1.61**
UG (adjacent pts):	1.48
CU:	0.02
No. of Points:	13
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	**22**
Total Load:	21.01 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 20

0' 20' 40'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

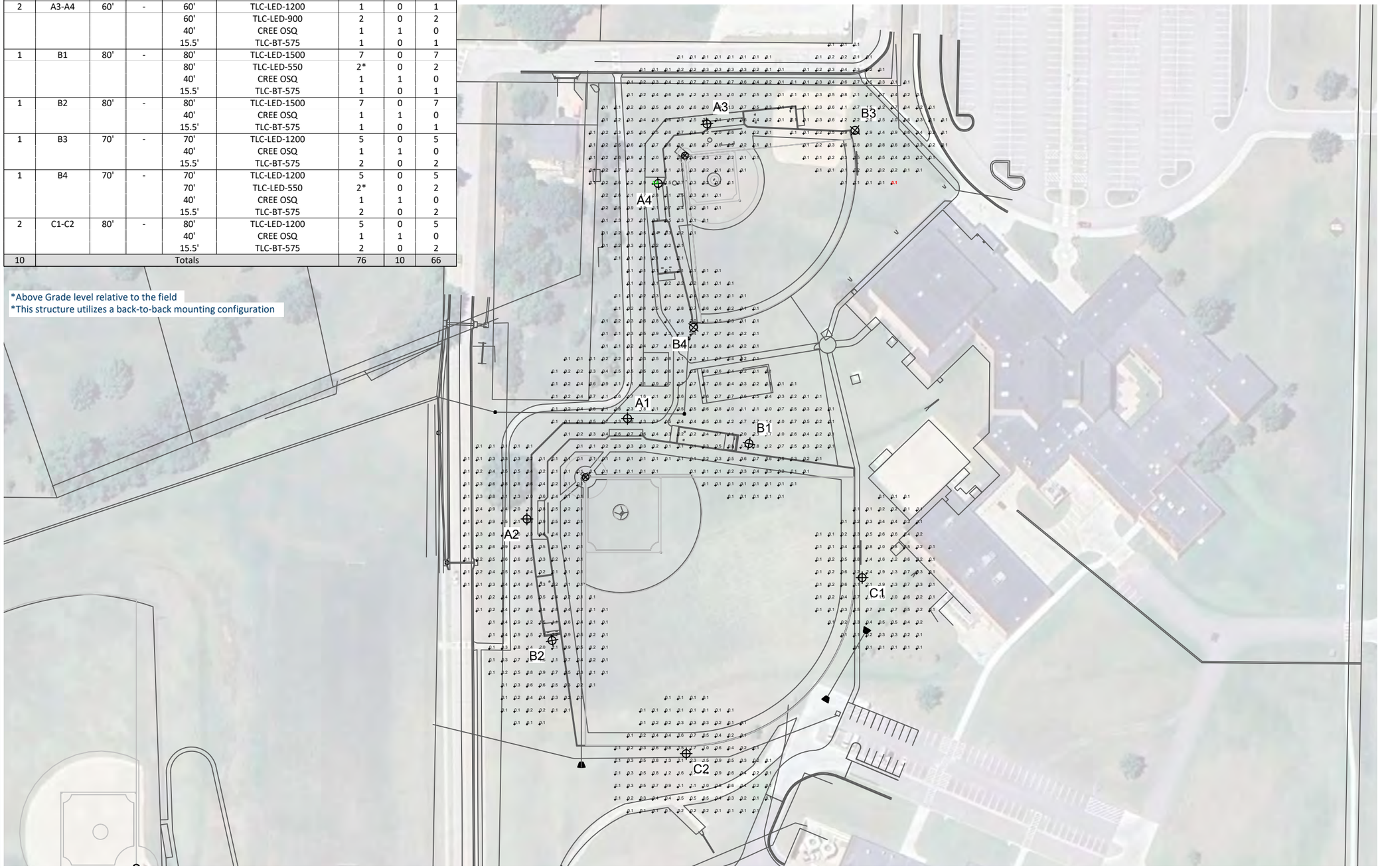
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	0	4
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
2	A3-A4	60'	-	60'	TLC-LED-1200	1	0	1
				60'	TLC-LED-900	2	0	2
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
1	B1	80'	-	80'	TLC-LED-1500	7	0	7
				80'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
1	B2	80'	-	80'	TLC-LED-1500	7	0	7
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
1	B3	70'	-	70'	TLC-LED-1200	5	0	5
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	0	2
1	B4	70'	-	70'	TLC-LED-1200	5	0	5
				70'	TLC-LED-550	2*	0	2
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	0	2
2	C1-C2	80'	-	80'	TLC-LED-1200	5	0	5
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	0	2
10	Totals					76	10	66

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Security (Varsity Fields)**
Spacing:	15.0' x 15.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Scan Average:	**0.48**
Maximum:	2.5
Minimum:	0.1
Avg/Min:	9.51
Max/Min:	**49.68**
UG (adjacent pts):	4.36
CU:	0.97
No. of Points:	1020
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	**10**
Total Load:	1.00 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 120

0' 120' 240'

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

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-900	3	3	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
2	C3-C4	70'	-	70'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	2	2	0
6	Totals					34	32	2

*Above Grade level relative to the field

SCALE IN FEET 1 : 60

0' 60' 120'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**JV Baseball**
Size:	320'/350'/320' - basepath 90'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	**30**	**20**
Scan Average:	31.42	23.64
Maximum:	35.9	30.1
Minimum:	22.0	16.2
Avg/Min:	1.43	1.46
Guaranteed Max/Min:	**2.5**	**3**
Max/Min:	1.63	1.85
UG (adjacent pts):	1.23	1.42
CU:	0.74	
No. of Points:	25	98
LUMINAIRE INFORMATION		
Applied Circuits:	H	
No. of Luminaires:	**32**	
Total Load:	30.94 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

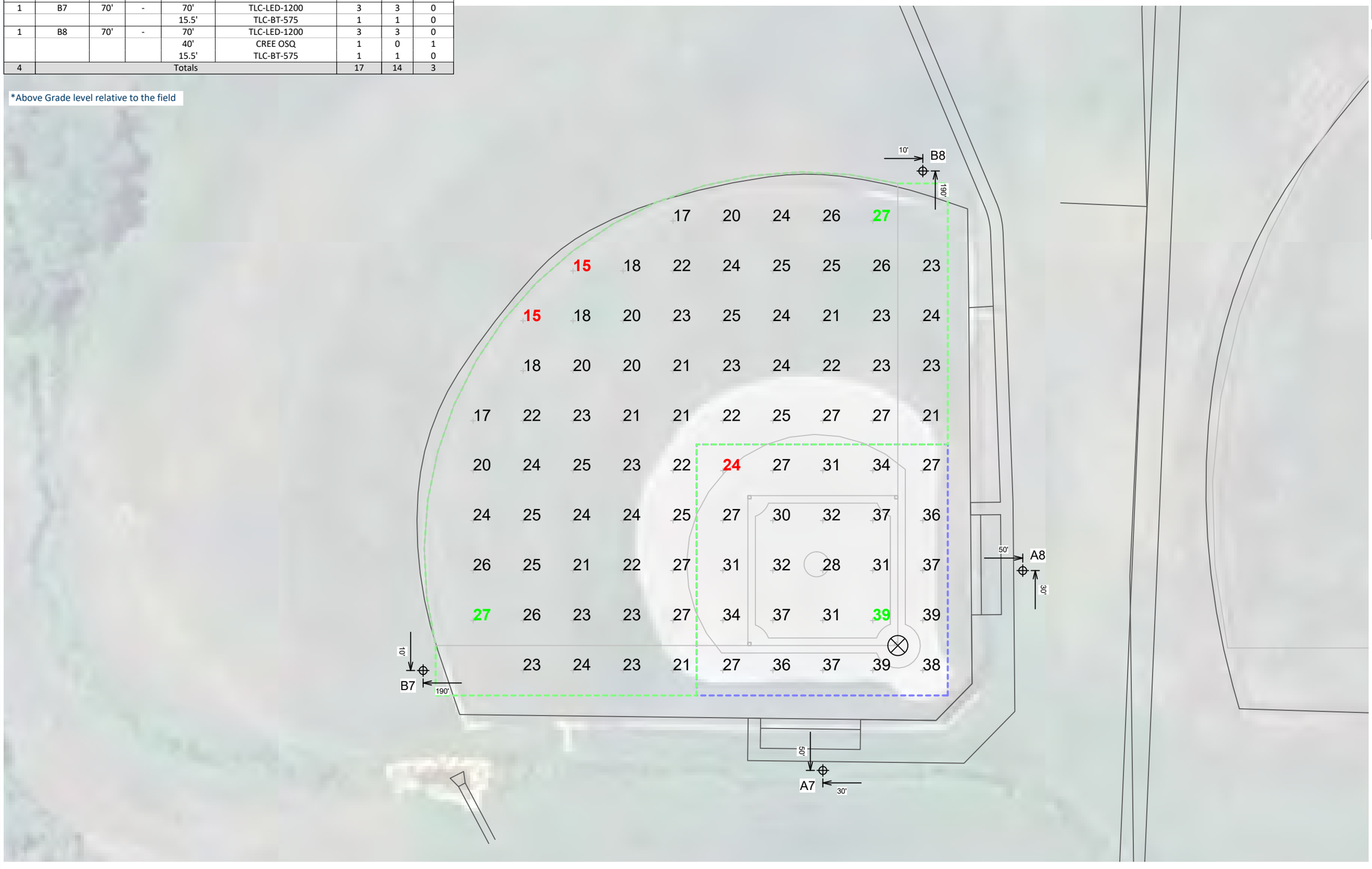
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

We Make It Happen.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	70'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
4	Totals					17	14	3

*Above Grade level relative to the field



Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**JV Softball**
Size:	185'/205'/185' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	**30**	**20**
Scan Average:	32.96	22.76
Maximum:	39.0	27.4
Minimum:	23.7	14.7
Avg/Min:	1.39	1.55
Guaranteed Max/Min:	**2.5**	**3**
Max/Min:	1.65	1.86
UG (adjacent pts):	1.33	1.32
CU:	0.60	
No. of Points:	25	65
LUMINAIRE INFORMATION		
Applied Circuits:	I	
No. of Luminaires:	**14**	
Total Load:	12.84 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 40

0' 40' 80'

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

We Make It Happen.

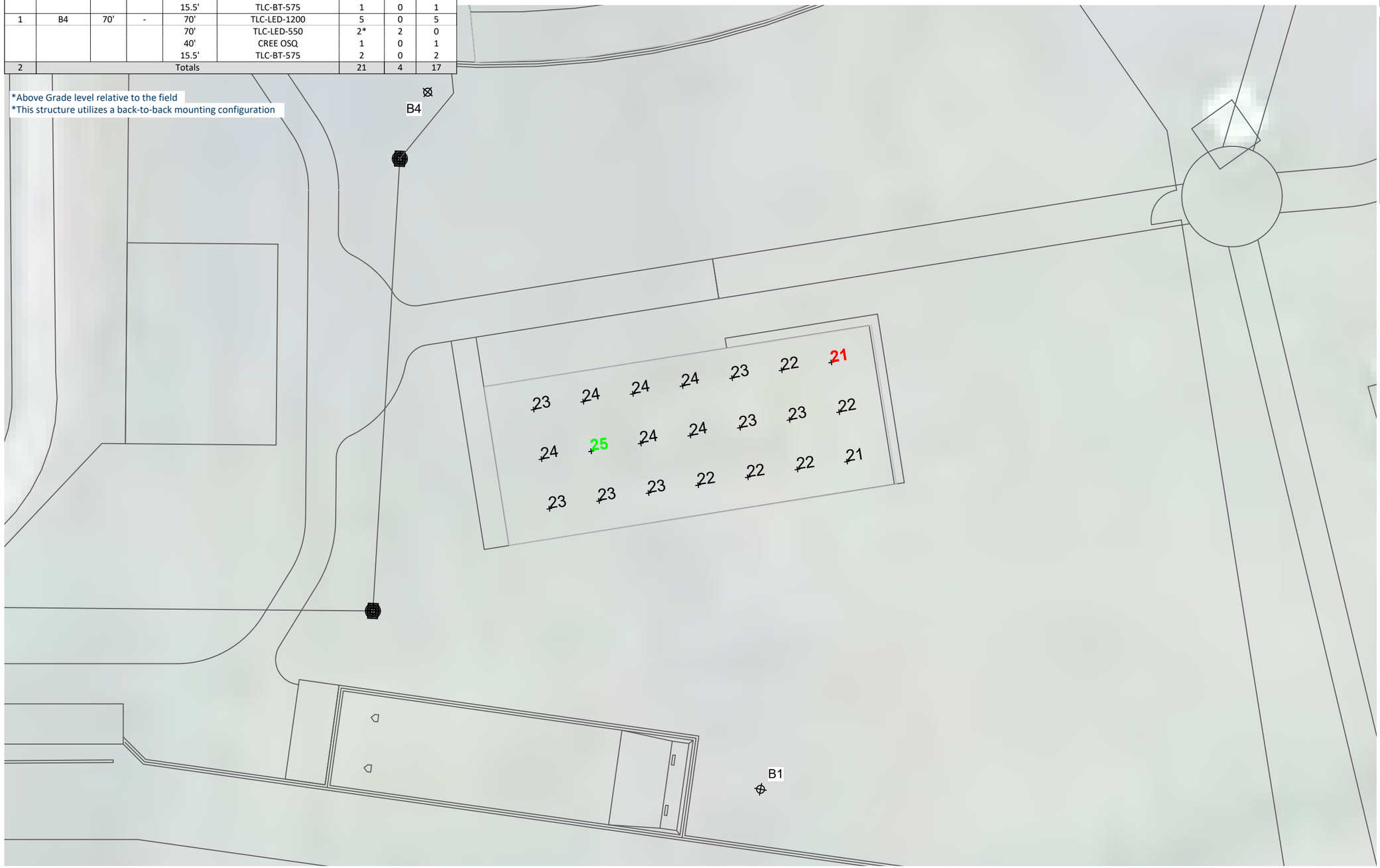
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	B1	80'	-	80'	TLC-LED-1500	7	0	7
				80'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	0	1
1	B4	70'	-	70'	TLC-LED-1200	5	0	5
				70'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	0	2
2	Totals					21	4	17

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Batting Cage**
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Scan Average:	**22.88**
Maximum:	24.5
Minimum:	20.6
Avg/Min:	1.11
Max/Min:	**1.19**
UG (adjacent pts):	1.07
CU:	0.18
No. of Points:	21
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	**4**
Total Load:	2.16 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 20

0' 20' 40'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

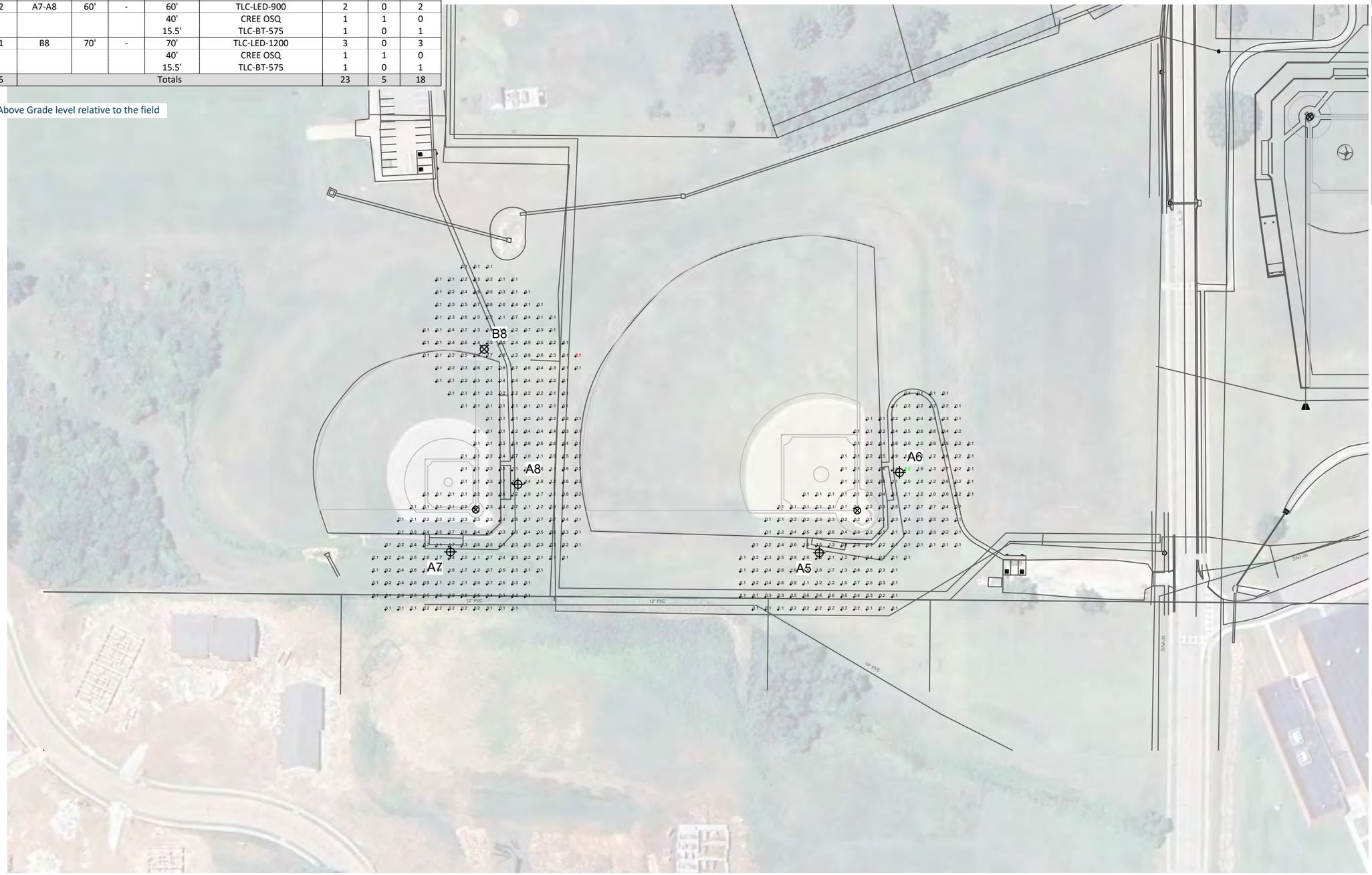
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-900	3	0	3
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
2	A7-A8	60'	-	60'	TLC-LED-900	2	0	2
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
1	B8	70'	-	70'	TLC-LED-1200	3	0	3
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	0	1
5	Totals					23	5	18

*Above Grade level relative to the field



Grid Summary

Name:	**Security (JV Fields)**
Spacing:	15.0' x 15.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	**0.46**
Maximum:	2.5
Minimum:	0.1
Avg/Min:	9.22
Max/Min:	**49.22**
UG (adjacent pts):	4.28
CU:	0.96
No. of Points:	524
LUMINAIRE INFORMATION	
Applied Circuits:	J
No. of Luminaires:	**5**
Total Load:	0.50 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 120

0' 120' 240'

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

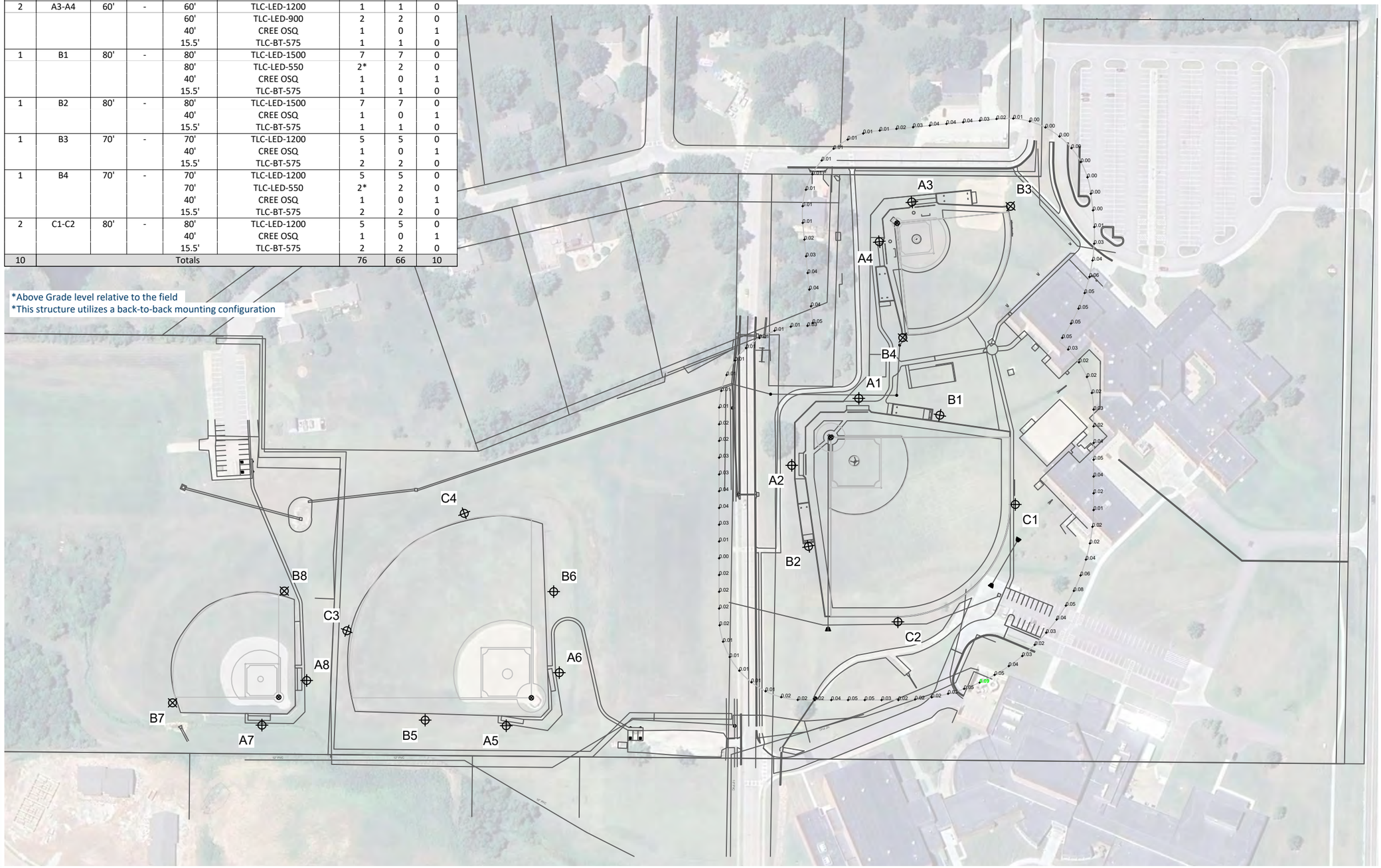
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
10	Totals					76	66	10

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Varsity Baseball/Softball 150' Spill @ 3ft.**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0248**
Maximum:	0.086
Minimum:	0.000
CU:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C
No. of Luminaires:	**66**
Total Load:	68.57 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

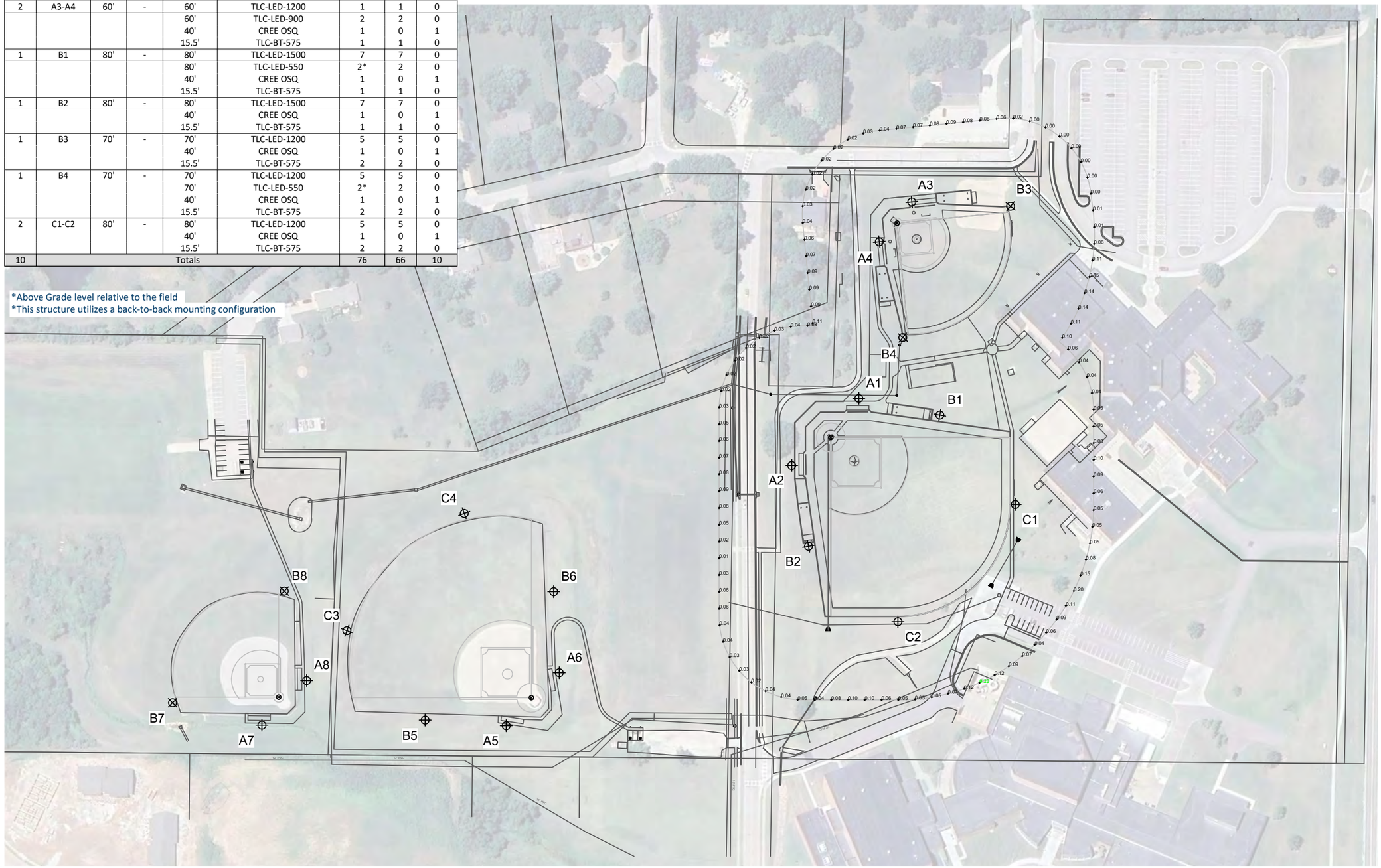
ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
10	Totals					76	66	10

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 180
0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	**Varsity Baseball/Softball 150' Spill @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0597**
Maximum:	0.201
Minimum:	0.000
CU:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C
No. of Luminaires:	**66**
Total Load:	68.57 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 and should be taken in accordance with IESNA RP-6-15.

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

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

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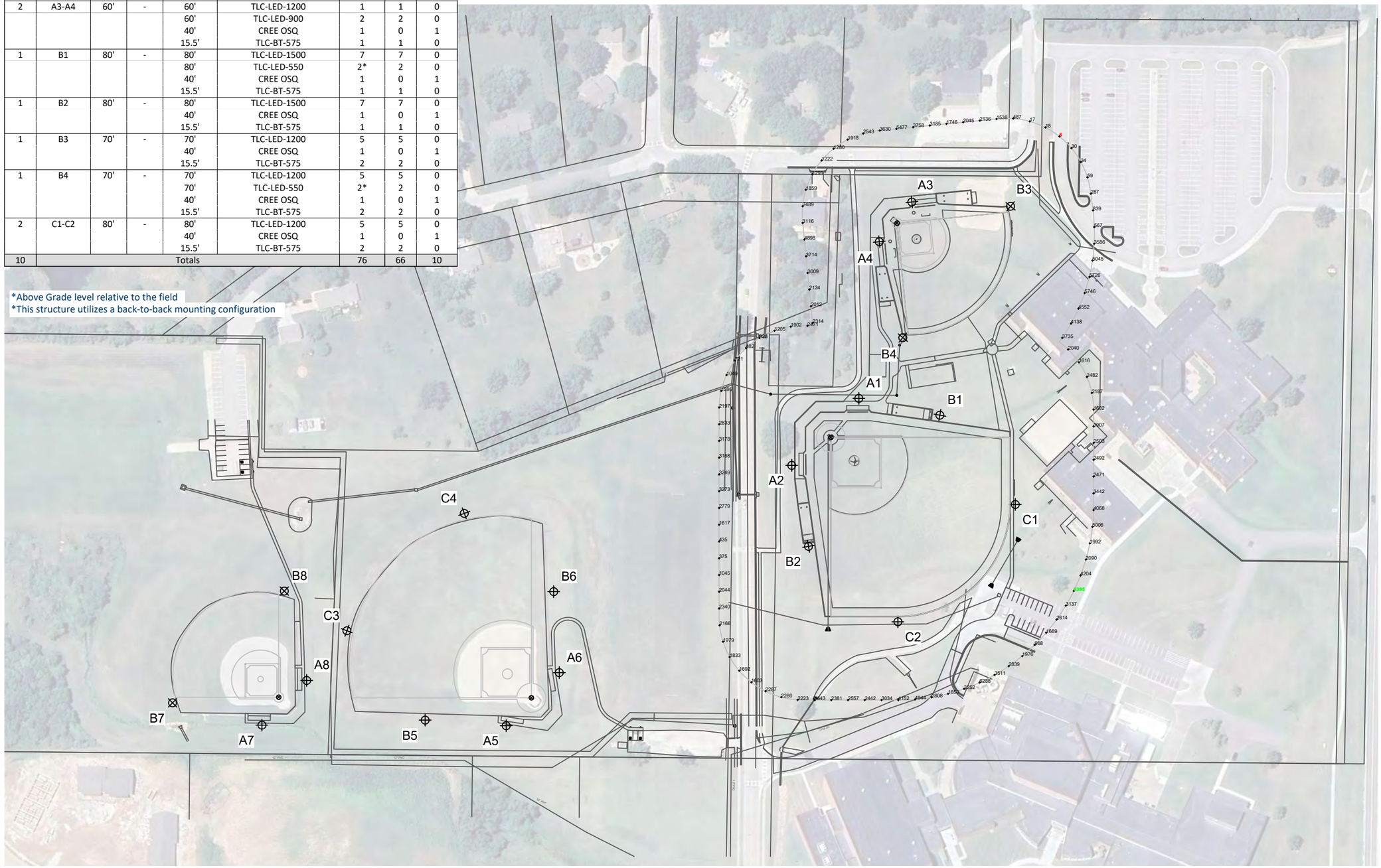
Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	80'	TLC-LED-1500	7	7	0
				80'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	70'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
1	B4	70'	-	70'	TLC-LED-1200	5	5	0
				70'	TLC-LED-550	2*	2	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	0	1
				15.5'	TLC-BT-575	2	2	0
10	Totals					76	66	10

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Louisburg High School Baseball Softball

Louisburg, KS

Grid Summary

Name:	Varsity Baseball/Softball 150' Glare @ 5ft.
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL CANDELA (PER LIGHTBANK)
	Entire Grid
Scan Average:	**2406.5935**
Maximum:	6394.747
Minimum:	5.538
CU:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C
No. of Luminaires:	**66**
Total Load:	68.57 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

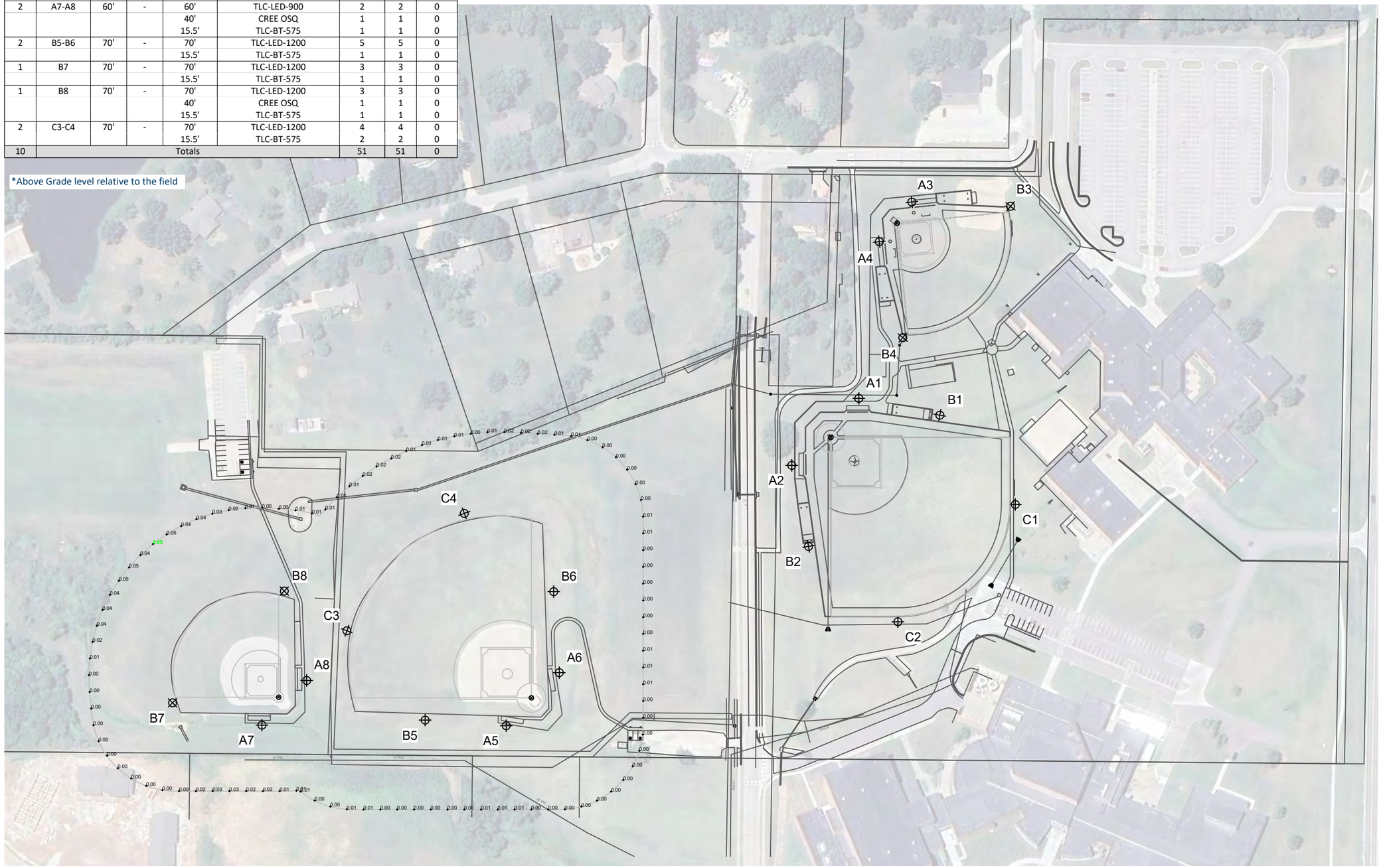
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-900	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	70'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C3-C4	70'	-	70'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					51	51	0

*Above Grade level relative to the field



Grid Summary

Name:	**JV Baseball/Softball 150' Spill @ 3ft.**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0108**
Maximum:	0.049
Minimum:	0.000
CU:	0.00
No. of Points:	97
LUMINAIRE INFORMATION	
Applied Circuits:	H,I,J
No. of Luminaires:	**51**
Total Load:	44.28 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

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

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

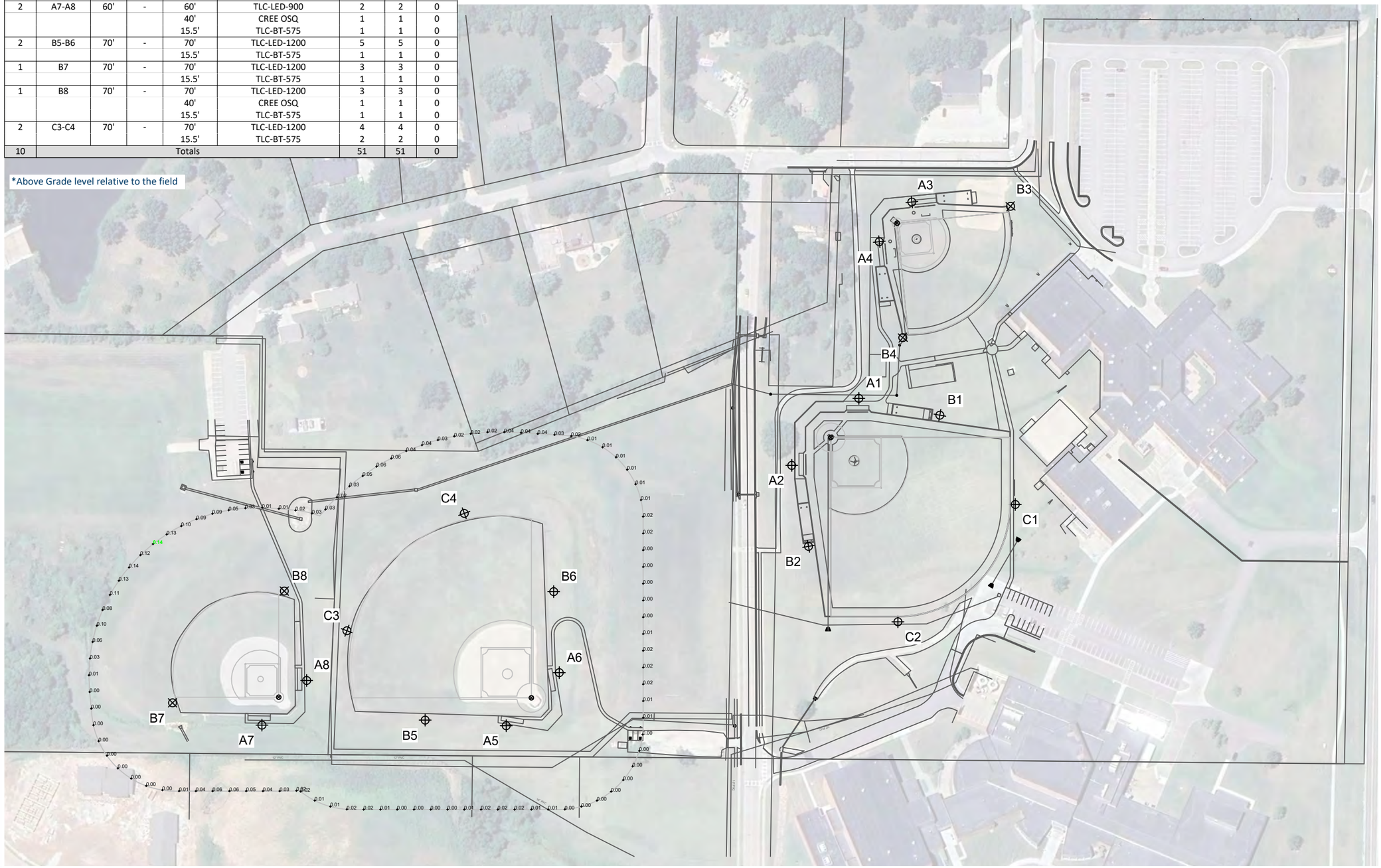
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-900	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	70'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C3-C4	70'	-	70'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					51	51	0

*Above Grade level relative to the field



Grid Summary

Name:	**JV Baseball/Softball 150' Spill @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0284**
Maximum:	0.139
Minimum:	0.000
CU:	0.00
No. of Points:	97
LUMINAIRE INFORMATION	
Applied Circuits:	H,I,J
No. of Luminaires:	**51**
Total Load:	44.28 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

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

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

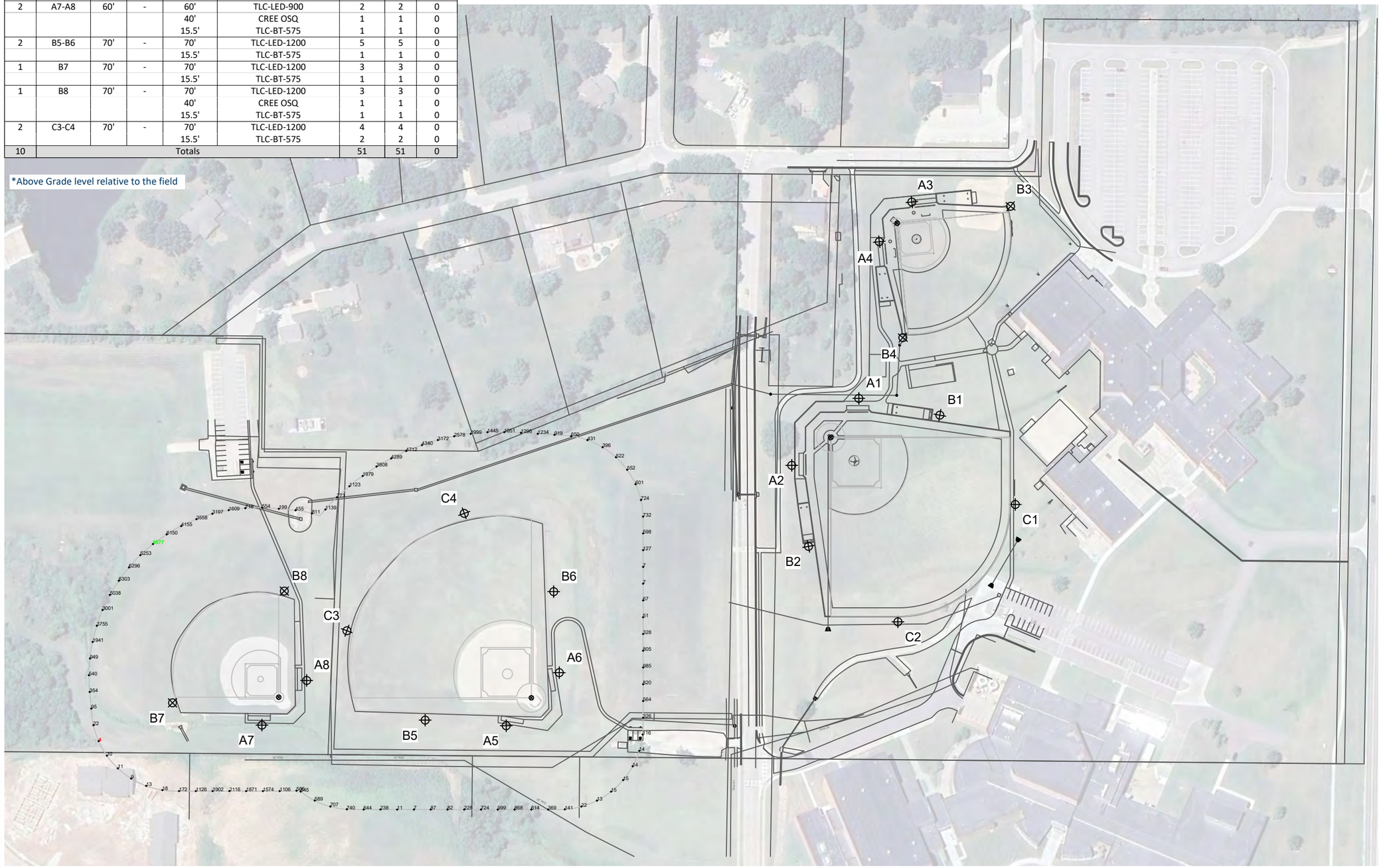
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-900	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	70'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C3-C4	70'	-	70'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					51	51	0

*Above Grade level relative to the field



Grid Summary

Name:	**JV Baseball/Softball 150' Glare @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL CANDELA (PER LIGHTBANK)
	Entire Grid
Scan Average:	**1288.4281**
Maximum:	6577.445
Minimum:	3.852
CU:	0.00
No. of Points:	97
LUMINAIRE INFORMATION	
Applied Circuits:	H,I,J
No. of Luminaires:	**51**
Total Load:	44.28 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

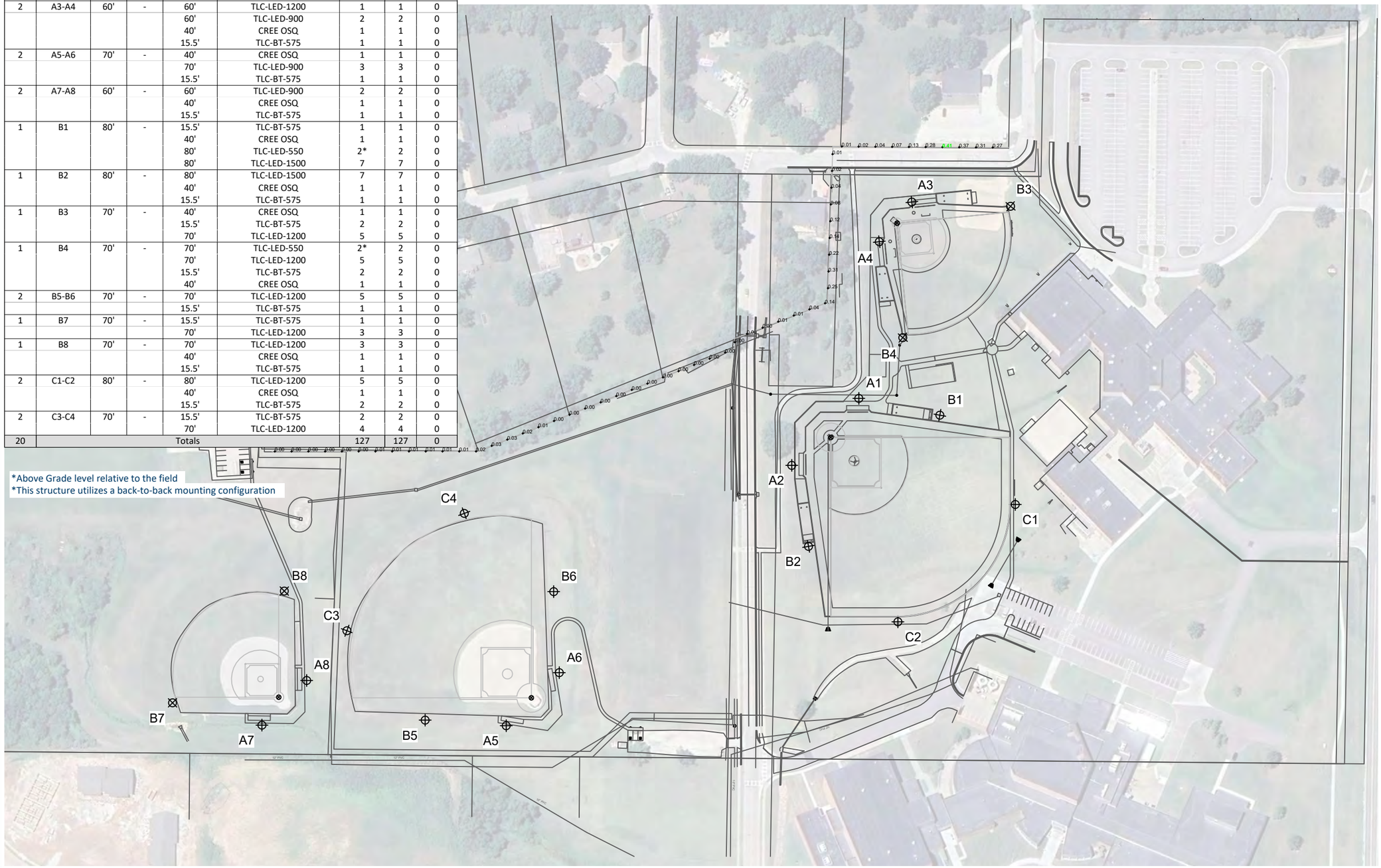
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A5-A6	70'	-	40'	CREE OSQ	1	1	0
				70'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				40'	CREE OSQ	1	1	0
				80'	TLC-LED-550	2*	2	0
				80'	TLC-LED-1500	7	7	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	5	5	0
1	B4	70'	-	70'	TLC-LED-550	2*	2	0
				70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
				40'	CREE OSQ	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	70'	-	15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	4	4	0
20	Totals					127	127	0

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Residential Property Line Spill @ 3ft.**
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary

	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.0638**
Maximum:	0.413
Minimum:	0.000
CU:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C,D,H,I,J
No. of Luminaires:	**127**
Total Load:	113.85 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

ILLUMINATION SUMMARY

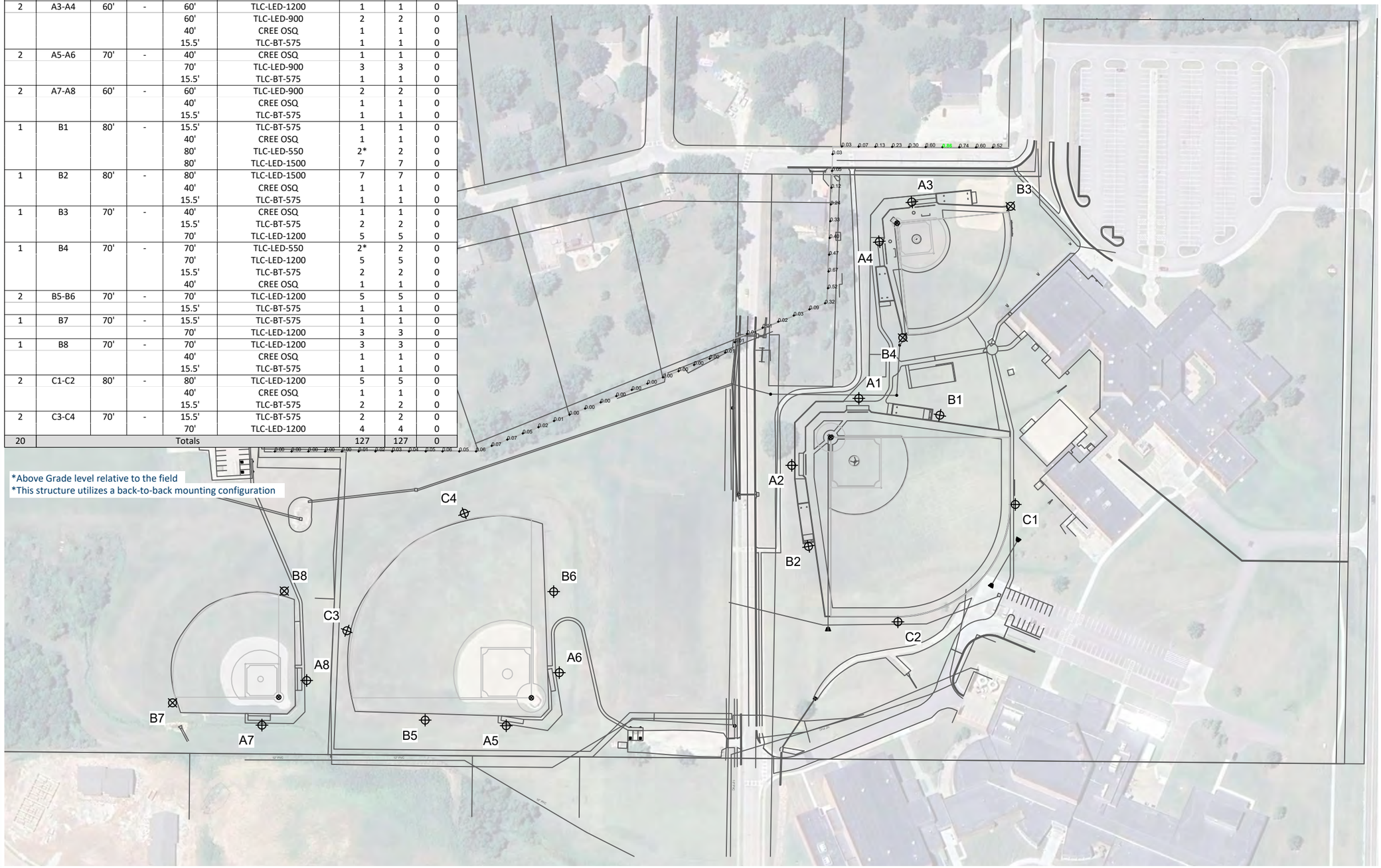
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A5-A6	70'	-	40'	CREE OSQ	1	1	0
				70'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				40'	CREE OSQ	1	1	0
				80'	TLC-LED-550	2*	2	0
				80'	TLC-LED-1500	7	7	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	5	5	0
1	B4	70'	-	70'	TLC-LED-550	2*	2	0
				70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
				40'	CREE OSQ	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	70'	-	15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	4	4	0
20	Totals					127	127	0

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Residential Property Line Spill @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.1448**
Maximum:	0.860
Minimum:	0.000
CU:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C,D,H,I,J
No. of Luminaires:	**127**
Total Load:	113.85 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

ILLUMINATION SUMMARY

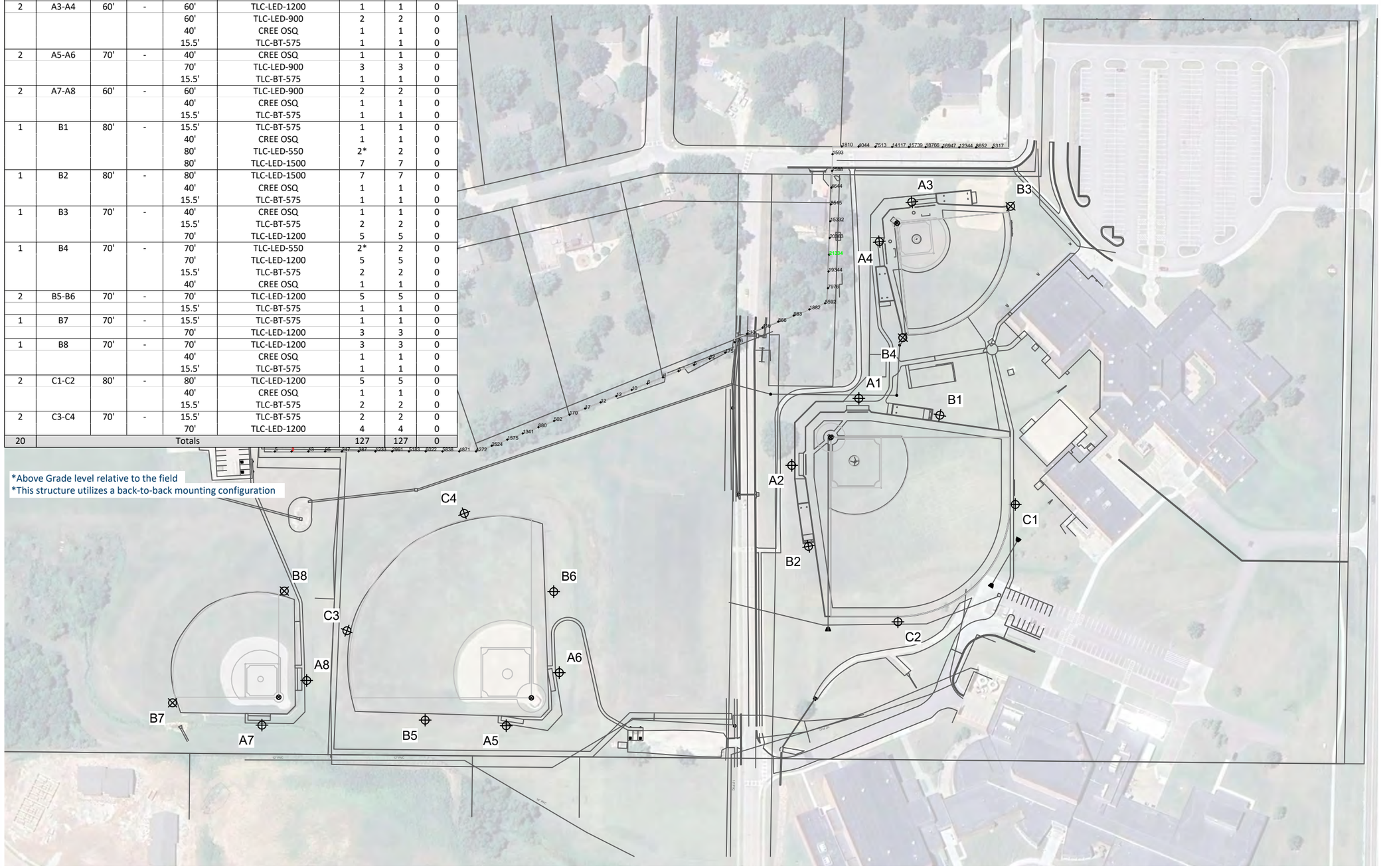
Louisburg High School Baseball Softball

Louisburg, KS

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	4	4	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A3-A4	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	A5-A6	70'	-	40'	CREE OSQ	1	1	0
				70'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	A7-A8	60'	-	60'	TLC-LED-900	2	2	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				40'	CREE OSQ	1	1	0
				80'	TLC-LED-550	2*	2	0
				80'	TLC-LED-1500	7	7	0
1	B2	80'	-	80'	TLC-LED-1500	7	7	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B3	70'	-	40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	5	5	0
1	B4	70'	-	70'	TLC-LED-550	2*	2	0
				70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
				40'	CREE OSQ	1	1	0
2	B5-B6	70'	-	70'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	1	1	0
1	B7	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
1	B8	70'	-	70'	TLC-LED-1200	3	3	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				40'	CREE OSQ	1	1	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	70'	-	15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	4	4	0
20	Totals					127	127	0

*Above Grade level relative to the field
*This structure utilizes a back-to-back mounting configuration



Grid Summary

Name:	**Residential Property Line Glare @ 5ft.**
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary

	INITIAL CANDELA (PER LIGHTBANK)
	Entire Grid
Scan Average:	**4645.9292**
Maximum:	21333.736
Minimum:	2.188
CU:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	A,B,C,D,H,I,J
No. of Luminaires:	**127**
Total Load:	113.85 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 and should be taken in accordance with IESNA RP-6-15.

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

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

SCALE IN FEET 1 : 180

0' 180' 360'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Equipment Layout

INCLUDES:
· JV Baseball
· JV Softball
· Varsity Baseball
· Varsity Softball

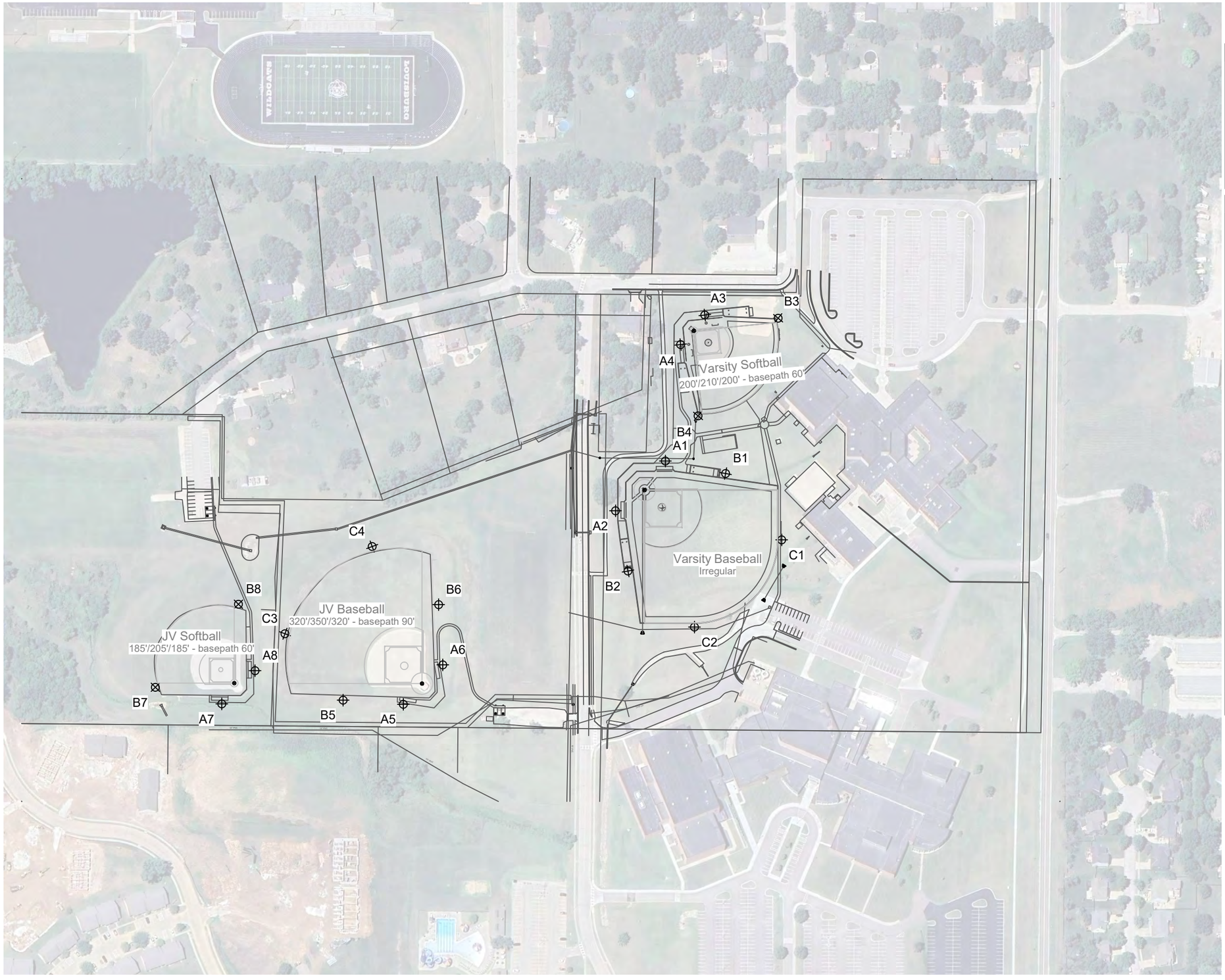
Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

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

Equipment List For Areas Shown

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
2	A1-A2	70'	-	70'	TLC-LED-1200	4
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	1
2	A3-A4	60'	-	60'	TLC-LED-1200	1
				60'	TLC-LED-900	2
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	1
2	A5-A6	70'	-	40'	CREE OSQ	1
				70'	TLC-LED-900	3
				15.5'	TLC-BT-575	1
2	A7-A8	60'	-	60'	TLC-LED-900	2
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	1
1	B1	80'	-	15.5'	TLC-BT-575	1
				40'	CREE OSQ	1
				80'	TLC-LED-550	2*
				80'	TLC-LED-1500	7
1	B2	80'	-	80'	TLC-LED-1500	7
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	1
1	B3	70'	-	40'	CREE OSQ	1
				15.5'	TLC-BT-575	2
				70'	TLC-LED-1200	5
1	B4	70'	-	70'	TLC-LED-550	2*
				70'	TLC-LED-1200	5
				15.5'	TLC-BT-575	2
				40'	CREE OSQ	1
2	B5-B6	70'	-	70'	TLC-LED-1200	5
				15.5'	TLC-BT-575	1
1	B7	70'	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-1200	3
1	B8	70'	-	70'	TLC-LED-1200	3
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	1
2	C1-C2	80'	-	80'	TLC-LED-1200	5
				40'	CREE OSQ	1
				15.5'	TLC-BT-575	2
2	C3-C4	70'	-	15.5'	TLC-BT-575	2
				70'	TLC-LED-1200	4

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



SCALE IN FEET 1 : 240

0' 240' 480'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

Louisburg High School Baseball Softball

Louisburg, KS

Equipment Layout

INCLUDES:
· JV Baseball
· JV Softball
· Varsity Baseball
· Varsity Softball

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

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

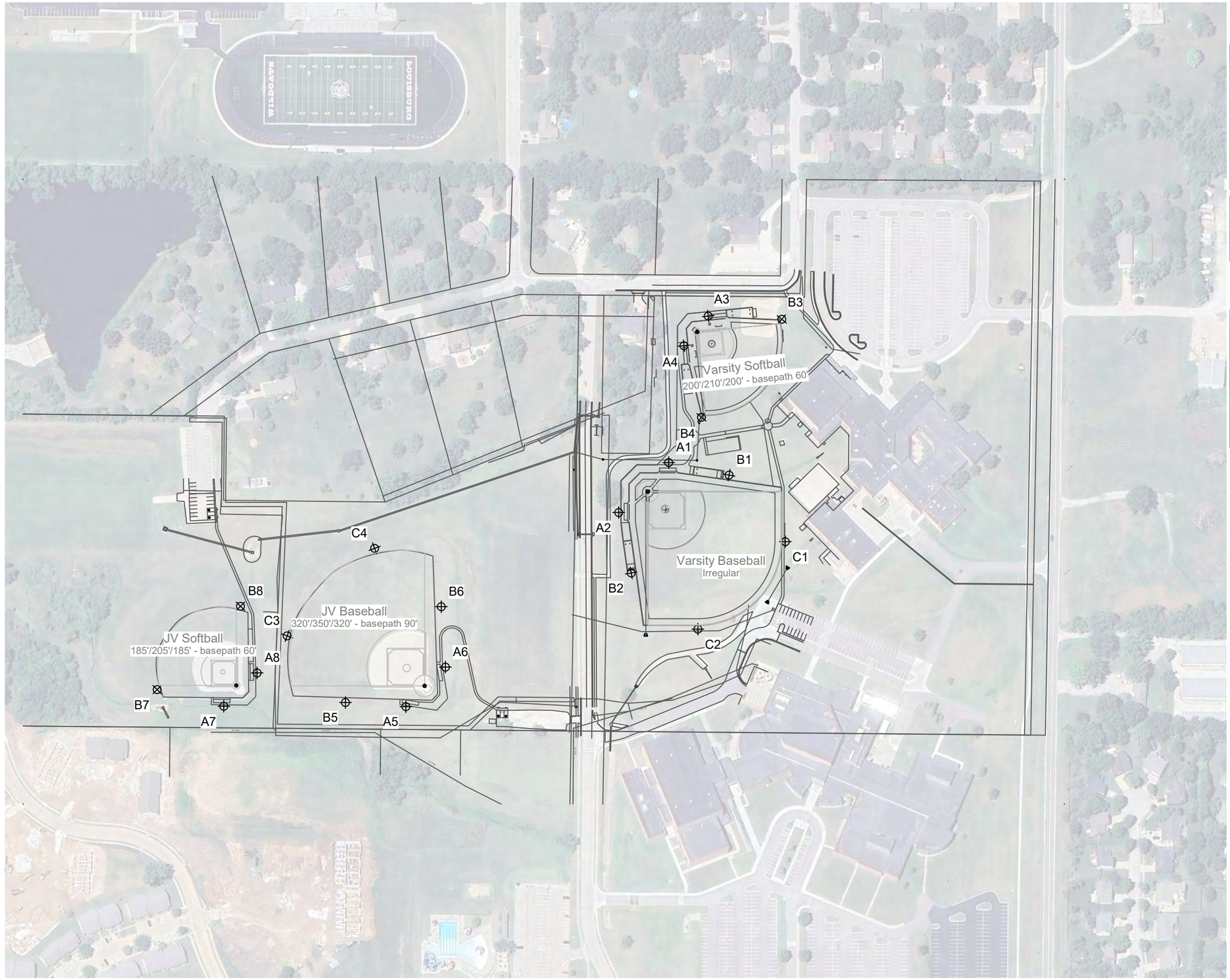
Equipment List For Areas Shown

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
20	Totals					127

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

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
CREE OSQ	-	-	-	-	0.3	-	0.2
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3



SCALE IN FEET 1 : 240

0' 240' 480'

ENGINEERED DESIGN By: J. Adams III • File #204863B • 24-Mar-25

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

We Make It Happen.

TOTAL PROJECT SCOPE

1) VARSITY SOFTBALL FIELD

2) SHARED BATTING CAGE

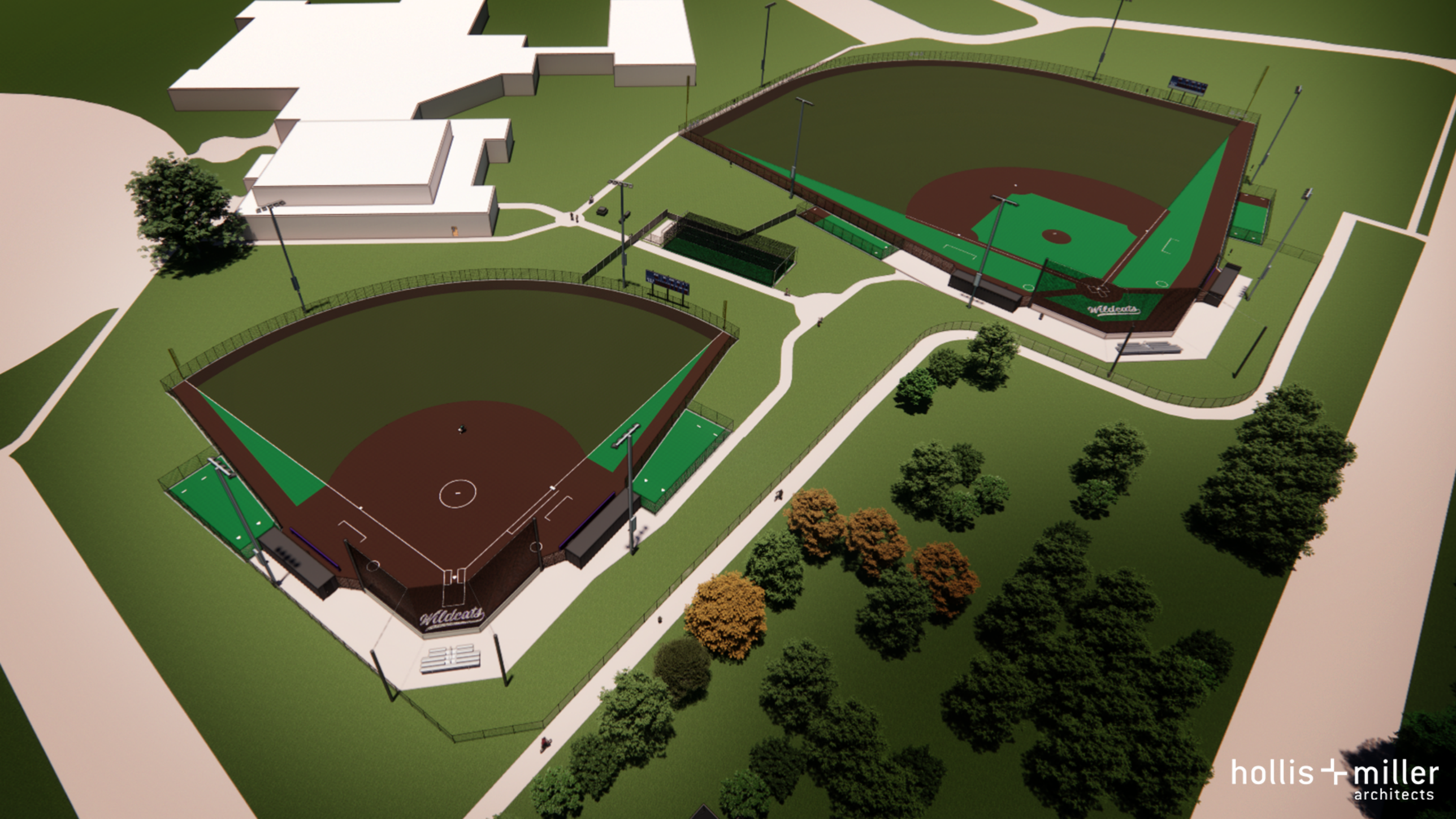
3) VARSITY SOFTBALL FIELD

4) PAVED ADA PARKING AND COMPLIANT PATH TO EXISTING BASEBALL FIELD

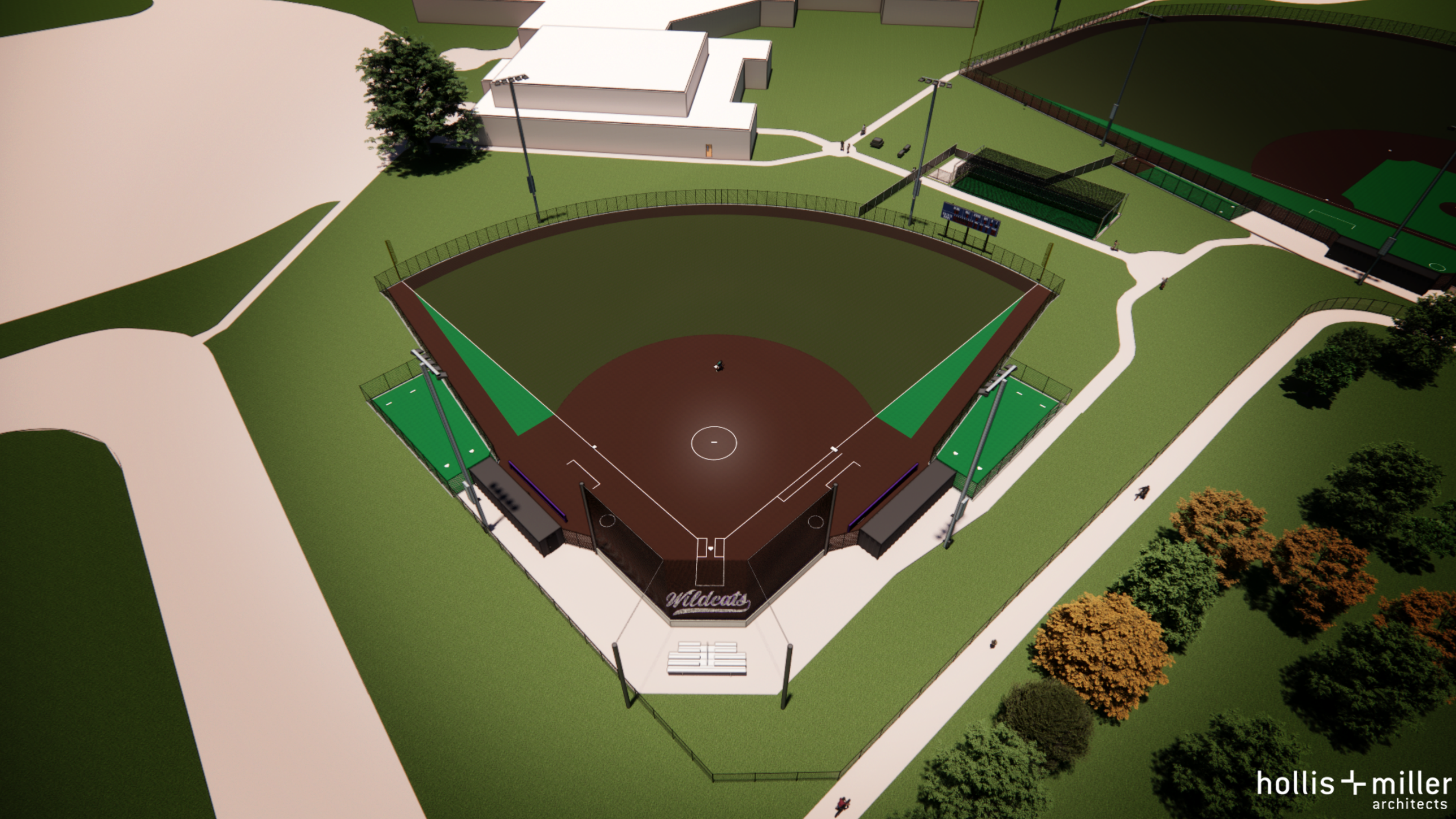
5) ADDING SCOREBOARD, SPORTS LIGHTING, BLEACHER AND DUGOUT TO EXISTING BASEBALL FIELD

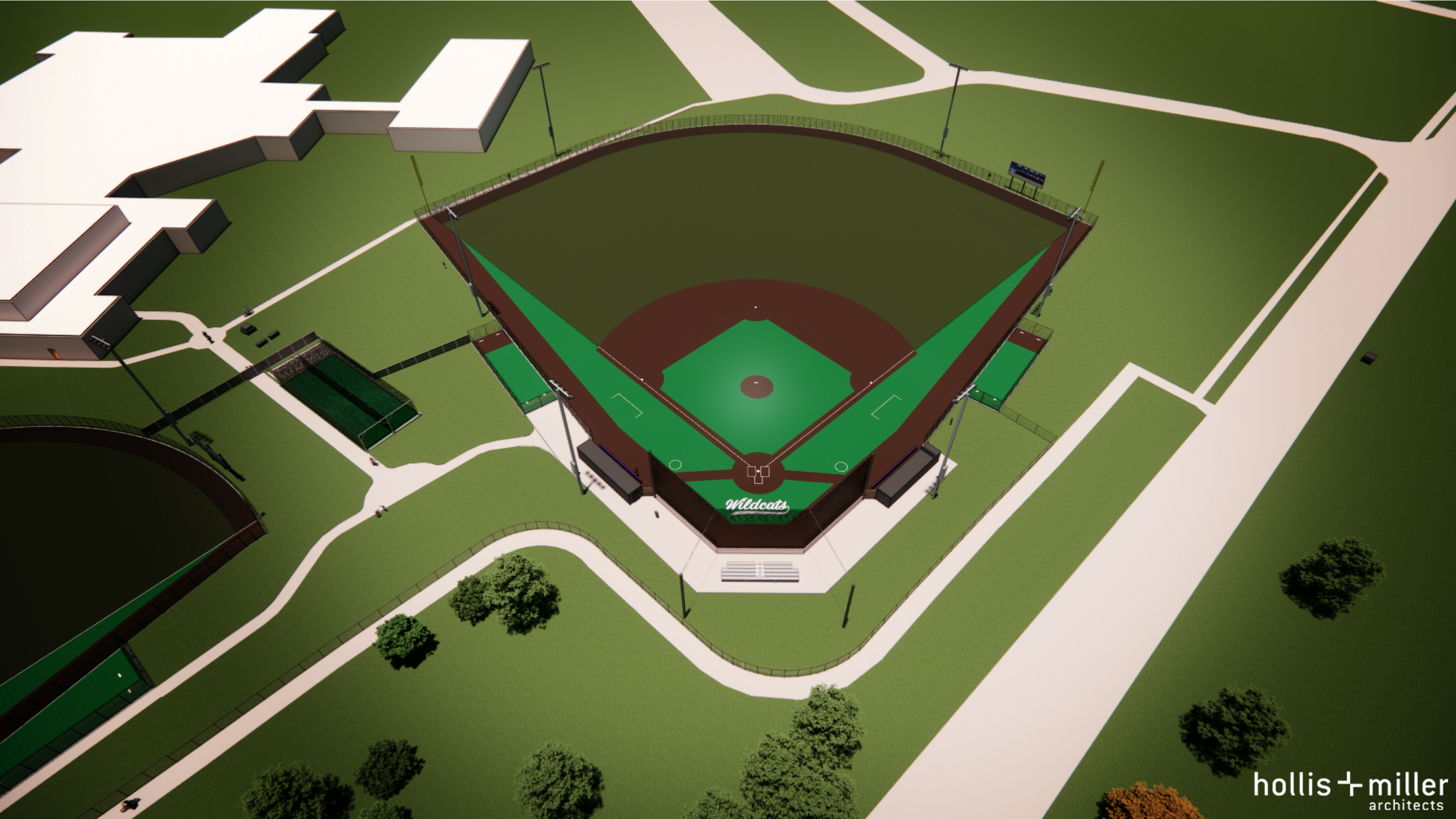
6) ADDING SCOREBOARD SPORTS LIGHTING, BLEACHER AND DUGOUT TO EXISTING SOFTBALL FIELD

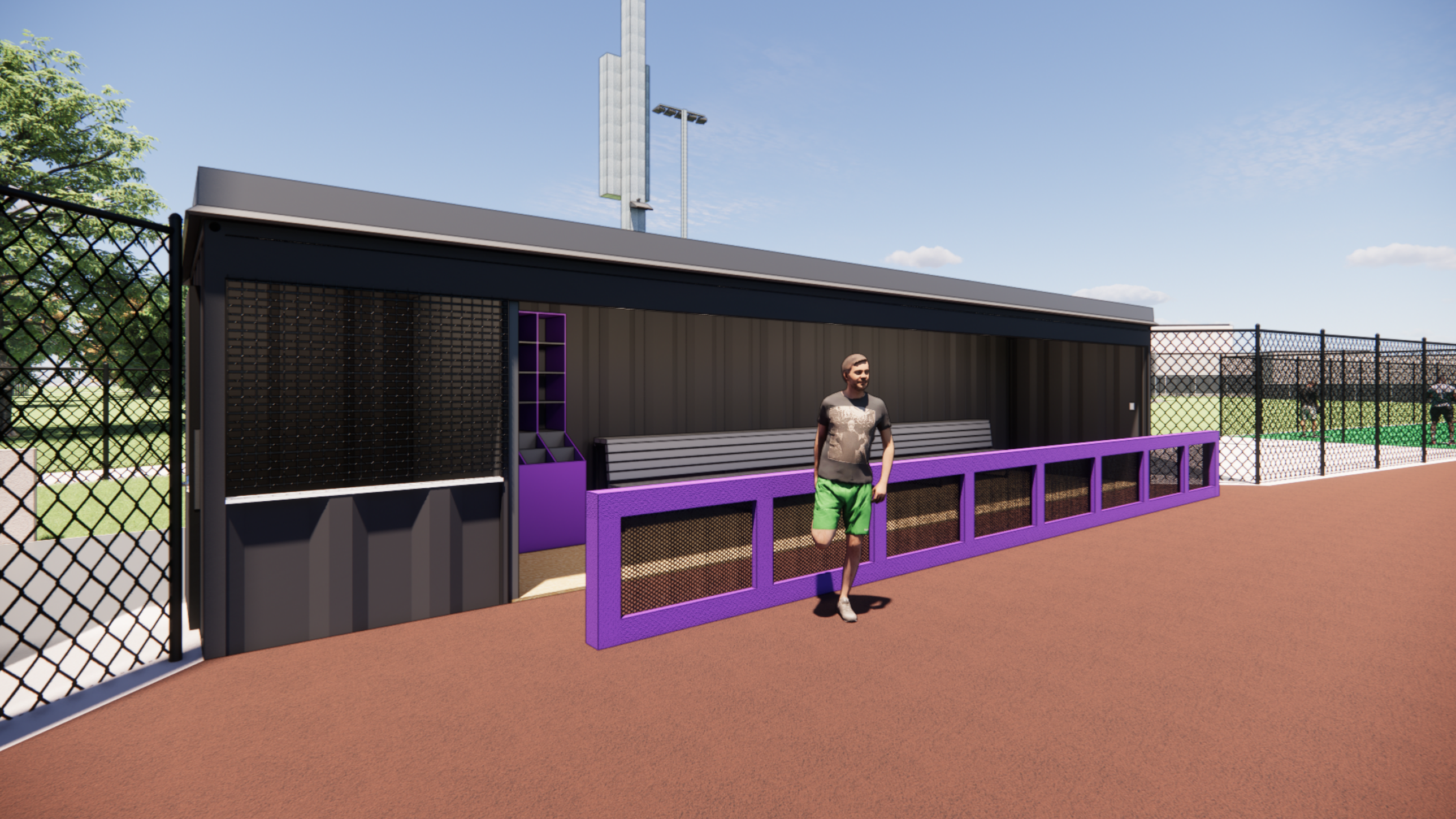
7) PAVED ADA PARKING AND COMPLIANT PATH TO EXISTING SOFTBALL FIELD



hollis + miller
architects


Wildcats
hollis + miller
architects


Wildcats
hollis + miller
architects



Introducing

TLC *for* LED®

Total Light Control™

Commitment to Excellence
GUARANTEED FOR 25 YEARS
Affordable Quality • Foundation-to-Pole-top

musco Lighting

We Make It Happen®

TLC *for* LED®
Total Light Control™

Continuing the commitment to excellence…
Keeping good lighting affordable…
Guaranteed for 25 years, from foundation to poletop.

Light-Emitting Diode (LED) is a new tool but the issues for sports lighting are the same. For nearly a decade, the Musco Team has been testing the LED light source and applying it on projects where it was the best choice. While LED saved energy, for a typical recreational facility the hours of operation weren't great enough to offset the higher cost.

We've researched LED's distinctive challenges and advantages and applied our knowledge of light control to the unique characteristics of the diode, assuring the quality of lighting for which Musco is known.

We've paired our expertise in controlling light with the advancing output of LED to the point where we're confident it's a cost-effective option to consider for recreational facilities. With our patented BallTracker™ technology, in-flight balls "pop" against night skies so that tracking the ball is easier than ever before.

The result is a system that makes Musco's great lighting even better.

Better for players…
who want to perform their best and be able to track the entire flight of the ball.

Better for neighbors…
who don't want glare in or around their homes or lights left on when not in use.

Better for the night sky…
with bright, uniform light directed onto the field and not spilling above it.

Better for your budget…
an affordable system that's built to last and control operating costs.

And…you can mark maintenance off your list for 25 years!

The Musco Team looks at the combination of issues to achieve the best solution to meet your needs—from structures, to quality of on-field light, to off-site impact, to energy and costs.

Control

from foundation to poletop. . .

from the light source to the field,
preserving the night sky. . .

assuring the results you expect,
day 1. . . year 1. . . and for 25 years.

Still Light-Structure System™…

5 Easy Pieces™ complete from foundation to poletop.

Our Light-Structure System™ has delivered long-term performance for thousands of customers around the world.

Lights, structures, and electrical components are engineered to work together. This assures the designed lighting gets in place and stays there over the life of the system, while also maintaining and protecting the operating environment so the components continue to function.

We've included features like easy to reach remote drivers, integrated grounding, and surge protection to ensure the longevity of the LED's sensitive electronic components.

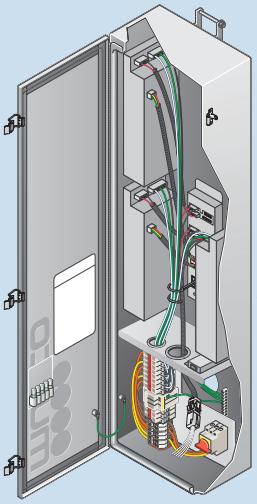
The Light-Structure System™ adapts to support both LED and metal halide light sources.

25 years of proven performance

Control from the foundation to the poletop.

TLC for LED®
Total Light Control™

Other Light Source Option
Green Generation•Lighting.
Metal Halide
10 year warranty



"LEDs must be carefully integrated into lighting fixtures. The efficiency of a poorly designed fixture that uses even the best LEDs will be only a fraction of what it would be if the fixture were well-designed, and the design can also affect lumen maintenance."

— **U.S. Department of Energy**
www.energy.gov/eere/ssl/led-basics

Musco can light a ballfield better than ever…

We create controlled light, not floodlights.

An LED floodlight is a serious step backward when it comes to the quality of light on your field. It may flood light into the neighborhood, into the night sky, and into the eyes of players.

New Tool

LED brings many benefits and new opportunities, but it's a tool, not a solution. Controlling the LED's intense, "rifle shot" of light is challenging. But with Total Light Control—TLC for LED®, we're able to achieve things never before possible—from pinpoint precision, to instant on/off, to varying light levels for different needs and sports presentation theatrics.

Same Issues

The key issues in sports lighting haven't changed: generating light, projecting it onto the target, keeping it out of the neighborhood and night sky, and creating an operating environment that allows it to last in real world conditions. Musco is able to carve out the area to be lighted and dramatically cut off any impact on the surrounding area. We use more of the light produced by the fixture, lose less light, and don't abuse the neighborhood. Our patented BallTracker™ light management technology puts vertical light precisely where it is needed. BallTracker minimizes impact on the night sky while lighting the underside of aerial balls, making night-time tracking easier then ever before.

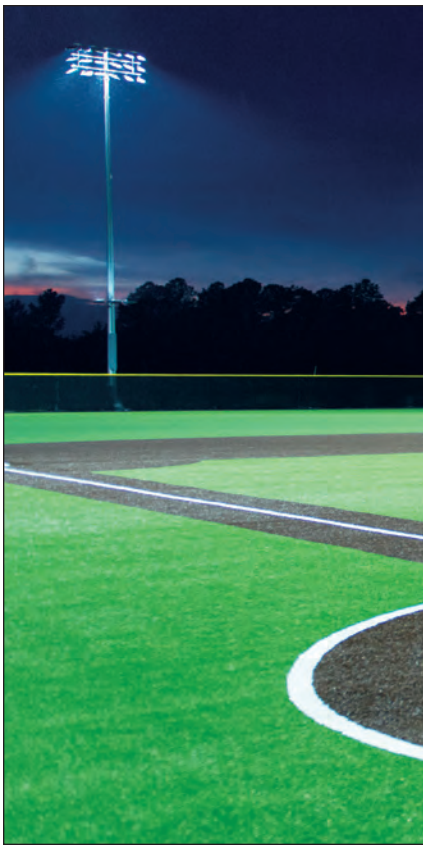
When you walk onto a Musco-lighted field, it just looks better.

"When you stand at home plate and look out to center field, there's no glare, but the field is totally bright and you see how the white of the ball pops, it looks amazing."

— Tyson Kimm
Vice President of Perfect Game USA,
a major tenant at LakePoint Sports Community

Control from the light source to the field.

San Diego Padres Petco Park · San Diego, California, USA



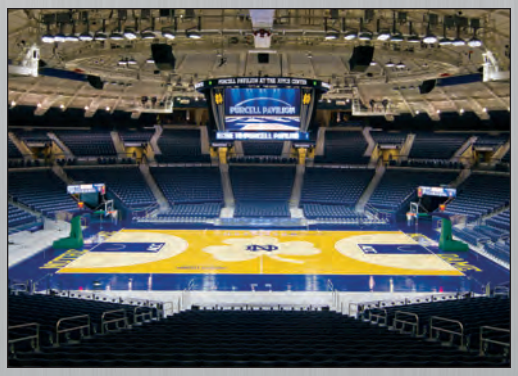
LakePoint Sports Community · Emerson, Georgia, USA

. . for players, fans, and TV cameras.

Theatrics and special effects enhance fan and TV experience.

Mount Rushmore - Keystone, South Dakota, USA

Pinpoint control from 1,100 feet away highlights the target area while preserving surrounding darkness.



University of Notre Dame - Notre Dame, Indiana, USA

Sensational event lighting with dimming saves energy for high-usage, multi-use venues.

With patented BallTracker™ technology, players enjoy quality lighting, no glare, and better ability to track the entire flight of the ball.

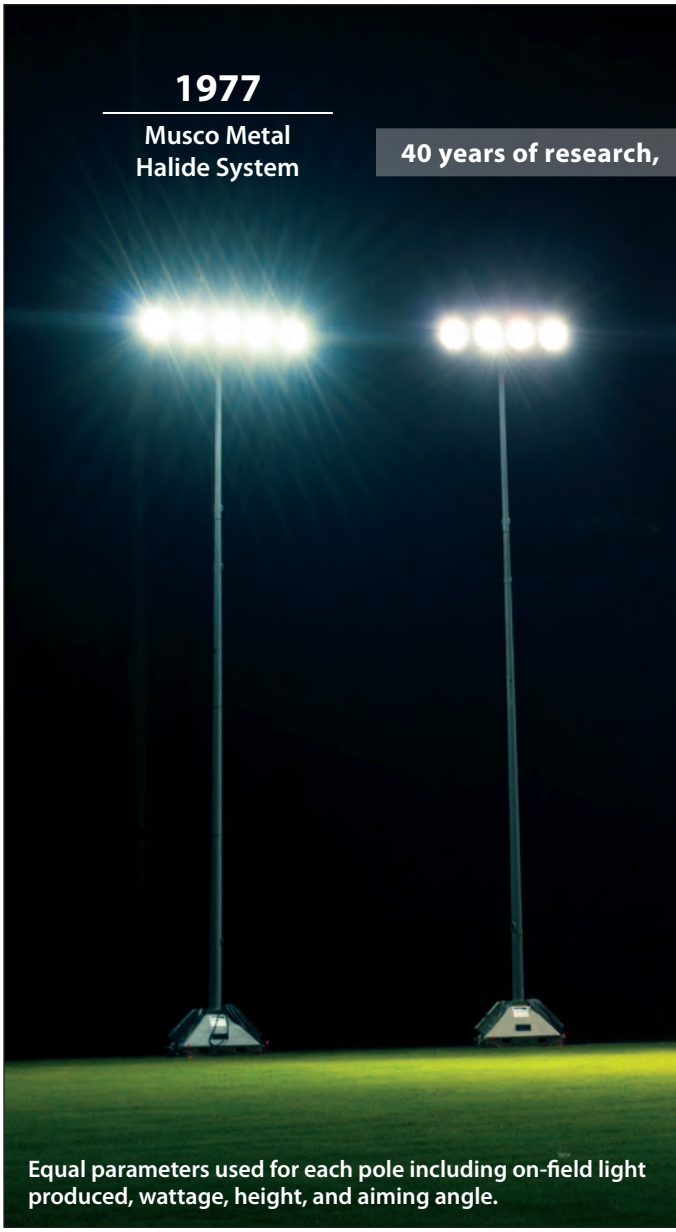
The neighbors will love it.

Musco cares as much about preserving darkness as it does about creating light.

Emitting light is easy. But LED fixtures that can't effectively control the light being emitted brings the unintended consequences of abusive glare for players and neighbors, and wasteful spill into the night sky.

With Musco's Total Light Control—TLC for LED®, we've taken LED to a level of performance and precision never before seen in sports lighting. It means no disruptive glare into nearby homes and the preservation of dark skies above.

And it opens up new opportunities for where fields can be located within a community, and for existing fields that, until now, weren't able to install lights because of community push back.



Equal parameters used for each pole including on-field light produced, wattage, height, and aiming angle.

Control preserving the night sky.

"Glyndon Park is in a naturally wooded residential area. We didn't want to illuminate the homes of neighbors in the area. I initially wasn't supportive of putting in traditional lights. The product Musco has developed allows us to light this field, yet light nothing else around it."

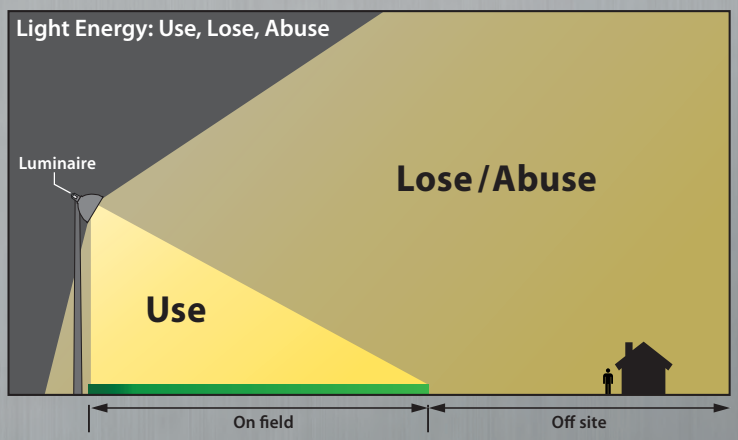
— Cathy Salgado,
Parks and Recreation Director, Vienna, VA

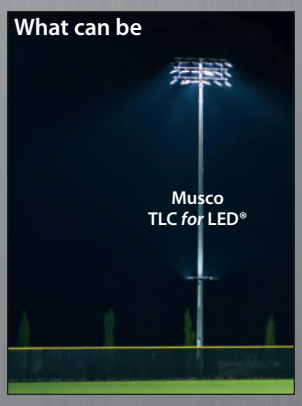

Glyndon Park Little League, Vienna, Virginia

increasing efficiency and decreasing environmental impact.

Today
Musco LED System

Today
Other Luminaire Manufacturer LED





And, your field is always ready to play.

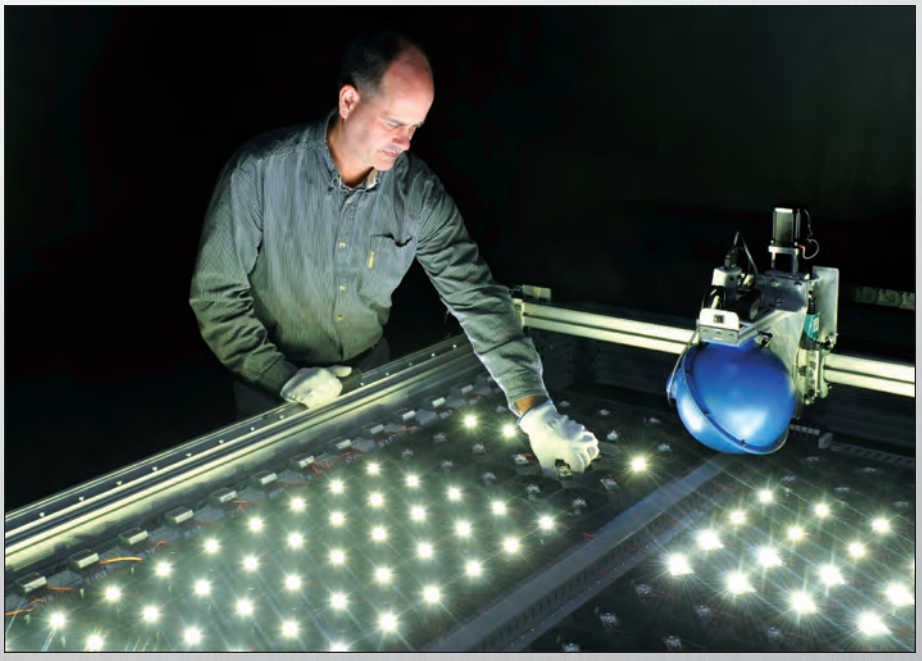
Here's a look at what the Musco Team has done in the last year as a partner in service to customers like you…

- Turned lights on and off remotely for more than 5.5 million games and events
- Conducted routine inspections and maintenance at over 11,000 fields
- Taken more than 350,000 calls, answering questions and helping with scheduling
- Carried out group lamp replacements on more than 30,000 metal halide fixtures
- Traveled enough miles servicing fields to circle the equator 24 times

And here's what our customers enjoy for 25 years…

Peace of mind for 9,125 days *knowing that if a problem arises, we'll be there, and a budget with virtually* ***zero dollars spent on maintenance, increased staff productivity*** *resulting from not having to worry about managing your lights, plus* ***restful nights,*** *free from midnight calls from unhappy neighbors about lights left on.*

Control assuring the results you expect.



We do the R&D to create it. We customize and apply solutions to your facility.

"Musco called to let us know there was an issue before we knew we had a problem."

— Stephen Cooke, CPRP, CYSA
Greenvill County Recreation Athletics Manager, Taylors, SC

We're on the road to support it for 25 years.

We provide 24–7 Control-Link® support to monitor and operate your facility.

From metal halide to LED,
Musco's Light-Structure System™ performs
in real world conditions ***for 25 years, guaranteed.***

We Make It Happen.®

Control

from foundation to poletop…

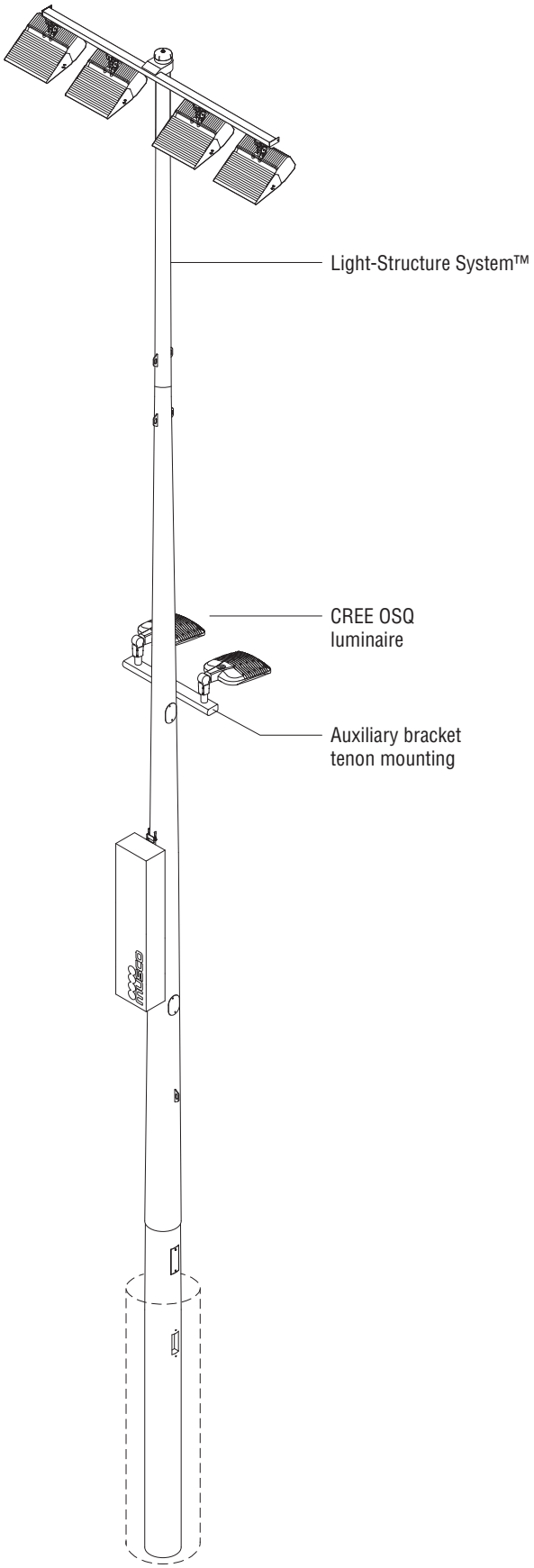
from the light source to the field,
preserving the night sky…

assuring the results you expect,
day 1…year 1…and for 25 years.

musco Lighting

We Make It Happen®

Datasheet: **OSQ Area Luminaire on Light-Structure System™ Pole**



Luminaire Data

Manufacturer ..... Cree, Inc.

Material and finish ..... Die-cast aluminum with silver powder-coat finish[1]

Mounting ..... Adjustable arm on 2.38 in (60 mm) O.D. tenon

Pole attachment ..... Auxiliary bracket mount

Weight (luminaire) ..... 26.5 lb (12 kg)

Regulatory and Voluntary Qualifications

UL ..... cULus Listed

Environment ..... Suitable for wet locations

DLC qualified ..... See www.designlights.org/QPL

Ingress Protection IP66

Emissions ..... Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emmissions

RoHS ..... Compliant

Photometric Characteristics

Lumen maintenance factor[2]

- 25k hours[3] 0.95
- 50k hours[3] 0.9
- 75k hours[3] 0.85
- 100k hours[4] 0.81

CIE correlated color temperature ..... 5700 K

Color Rendering Index (CRI), minimum 70

Lumens 17,000

Footnotes:

1) Cree's exclusive Colorfast DeltaGuard® finish freatures an E-coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation, and abrasion.

2) Lumen maintenance values at 25˚C ambient temperature are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.

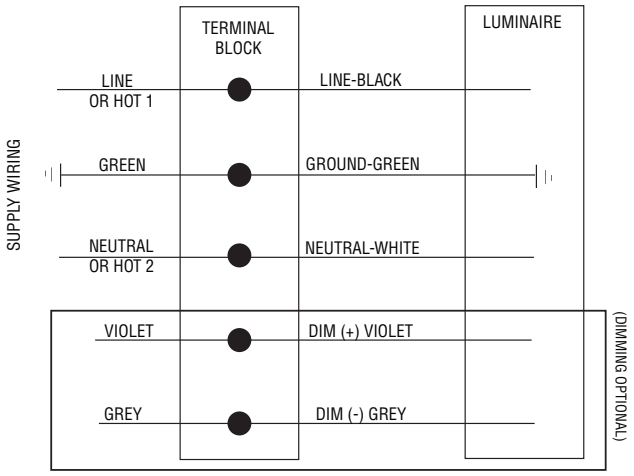
3) Values are represented as projected values within six times limit of tested hours per IES TM-21-11.

4) Values are represented as calculated values due to exceeding six times limit of tested hours.

Electrical Data

Rated wattage per luminaire[1] ..... 130 W
Input voltage .....120 – 277 V or 347 – 480 V, 50/60 Hz
Driver configuration .....Integral
Driver Efficiency .....>90%
Starting (inrush) current..... 73 A, 120 µs
Power factor .....>0.9
Total Harmonic Distortion .....<20%
Operating temperature range ....-40˚C – +35˚C (-40˚F – +95˚F)
Dimming mode[2] ..... 0 – 10 V dimming to 10%

Typical Wiring



	120 Vac	208 Vac	240 Vac	277 Vac	347 Vac	480 Vac
Max operating current[3]	1.09 A	0.65 A	0.56 A	0.49 A	0.38 A	0.28 A

Footnotes:

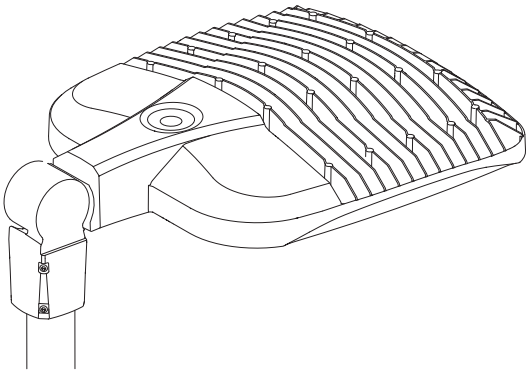
1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25˚C ambient temperature environment.

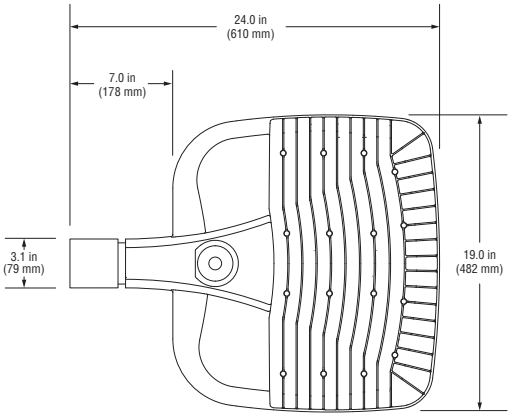
2) Dimming controls not provided by Musco. Driver provides 10V source current at 0.15 mA, compliant with IEC 60929 Annex E dimming standard.

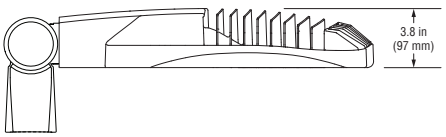
3) Operating current based on 25˚C.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.







OSQ Series

OSQ™ LED Area/Flood Luminaire – Medium

SECURITY / AREA LIGHT MOUNTED
LOWER ON SPORTS LIGHTING POLE

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'A' Input power designator is a suitable upgrade for HID applications up to 250 Watt. 'J' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

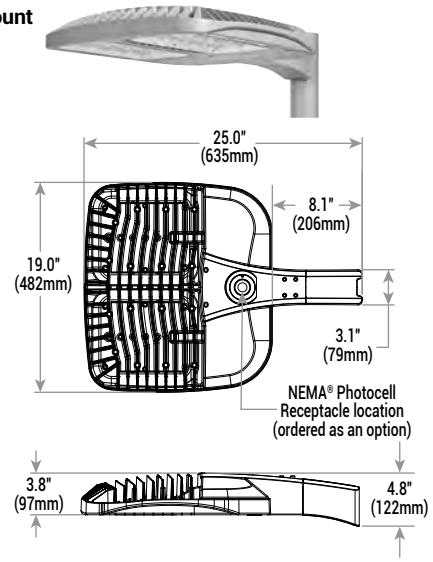
Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

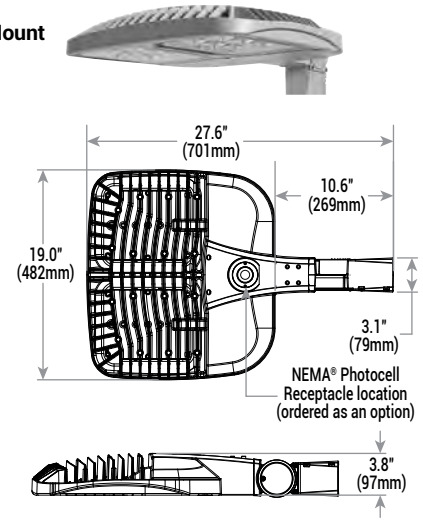
NanoOptic® Precision Delivery Grid™ optic
Made in the U.S.A. of U.S. and imported parts
CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)
CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
Limited Warranty†: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

† See www.cree.com/lighting/products/warranty for warranty terms

DA Mount



AA Mount



Accessories

Field-Installed	
Backlight Shield OSQ-BLSMF – Front facing optics	OSQ-BLSMR – Rotated optics

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AA-SV + **Luminaire:** OSQ-A-NM-2ME-A-40K-UL-SV

Mount (Luminaire must be ordered separately)				
OSQ-				
OSQ-AA Adjustable Arm **OSQ-DA** Direct Arm	**Color Options:**	**SV** Silver **BK** Black	**BZ** Bronze **PB** Platinum Bronze	**WH** White

Weight
26.5 lbs. (12kg)

Luminaire (Mount must be ordered separately)								
OSQ	**A**	**NM**						
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **5ME** Type V Medium **5SH** Type V Short **WSN** Wide Sign **15D** 15° Flood **25D** 25° Flood **40D** 40° Flood **60D** 60° Flood	**A** 112W **J** 168W	**30K** 3000K **40K** 4000K **57K** 5700K	**UL** Universal 120-277V **UH** Universal 347-480V	**BK** Black **BZ** Bronze **SV** Silver **WH** White	**DIM** 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator **F** Fuse - When code dictates fusing, use time delay fuse **ML** Multi-Level - Refer to ML spec sheet for details - High: 100%, Low: 30% - Intended for downlight applications at 0° tilt **PML** Programmable Multi-Level, 20-40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **PML2** Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt **Q9** Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details **R** NEMA® Photocell Receptacle - Intended for downlight applications with maximum 45° tilt - Photocell by others **RL** Rotate Left - LED and optic are rotated to the left **RR** Rotate Right - LED and optic are rotated to the right

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180˚ in 2.5˚ increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** 26.5 lbs. (12kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor :** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **10V Source Current:** 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC qualified when ordered with 30K (5ME, 5SH optics), or 40K and 57K (2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D optics). Please refer to www.designlights.org/QPL for most current information
- Dark Sky Friendly, IDA approved. Please refer to www.darksky.org/ for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*

Input Power Designator	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
A	112	0.97	0.56	0.49	0.43	0.34	0.25
J	168	1.47	0.85	0.74	0.64	0.50	0.36

* Electrical data at 25˚C (77˚F)

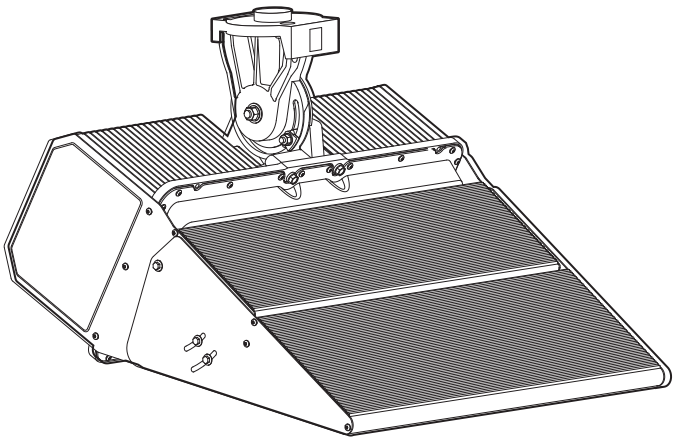
Recommended OSQ Series Lumen Maintenance Factors (LMF)[1]

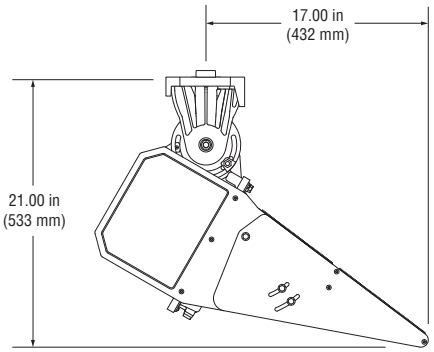
Ambient	Input Power Designator	Optic	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Projected/ Calculated[2,3] LMF	100K hr Calculated[3] LMF
5˚C (41˚F)	A/J	2ME, 3ME, 4ME	1.04	0.99	0.94	0.88	0.84
		5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.52	1.35	1.25	1.16	1.06
10˚C (50˚F)	A/J	2ME, 3ME, 4ME	1.03	0.98	0.93	0.88	0.83
		5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.39	1.24	1.14	1.06	0.97
15˚C (59˚F)	A/J	2ME, 3ME, 4ME	1.02	0.97	0.92	0.87	0.83
		5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.26	1.12	1.03	0.96	0.88
20˚C (68˚F)	A/J	2ME, 3ME, 4ME	1.01	0.96	0.91	0.86	0.82
		5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.13	1.01	0.93	0.86	0.79
25˚C (77˚F)	A/J	2ME, 3ME, 4ME	1.00	0.95	0.90	0.85	0.81
		5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.00	0.89	0.82	0.76	0.70

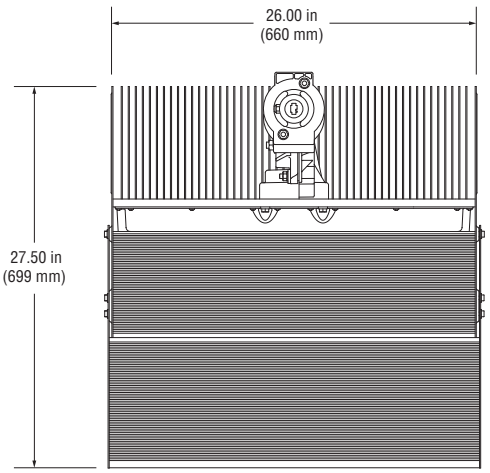
[1] Lumen maintenance values at 4000K and 25˚C (77˚F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

Datasheet: **TLC-LED-1150 Luminaire and Driver**

SPORTS LIGHTING FIXTURE







Luminaire Data

Weight (luminaire) . . . . . 75 lb (34 kg)

UL listing number E338094

UL listed for USA / Canada UL1598 CSA-C22.2 No.250.0

Ingress protection, luminaire IP65

Material and finish . . . . . Aluminum, powder-coat painted

Wind speed rating (aiming only) . . . . . 150 mi/h (67 m/s)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11

L90(8.5k) . . . . . >51,000 h

L80(8.5k) . . . . . >51,000 h

L70(8.5k) . . . . . 51,000 h

CIE correlated color temperature . . . . . 5700 K

Color Rendering Index (CRI), typical 75

Color Rendering Index (CRI), minimum 70

Lumens[1] 121,000

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

Driver Data

Electrical Data

Rated wattage[1]

- Per driver . . . . . 1,150 W
- Per luminaire . . . . . 1,150 W

Number of luminaires per driver 1

Starting (inrush) current . . . . . <40 A, 256 µ

Fuse rating . . . . . 15 A

UL ambient temperature rating, electrical components enclosure . . . . . 50˚C (122˚F)

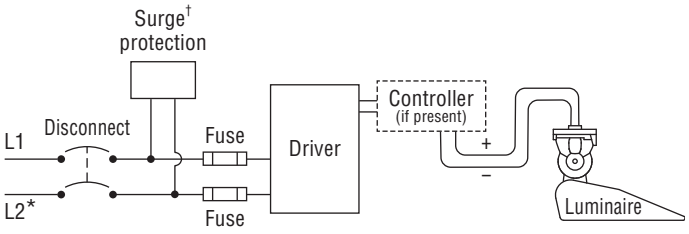
Ingress protection, electrical components enclosure IP54

Efficiency 95%

Dimming mode . . . . . optional

- Range, energy consumption . . . . . 15 – 100%
- Range, light output . . . . . 20 – 100%

Typical Wiring



* If L2 (com) is neutral then not switched or fused.
† Not present if indoor installation.

	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current[2]	7.26 A	6.98 A	6.60 A	6.31 A	6.05 A	5.24 A	4.18 A	3.82 A	3.63 A	3.50 A	3.03 A

Footnotes:

1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25˚C ambient temperature environment.

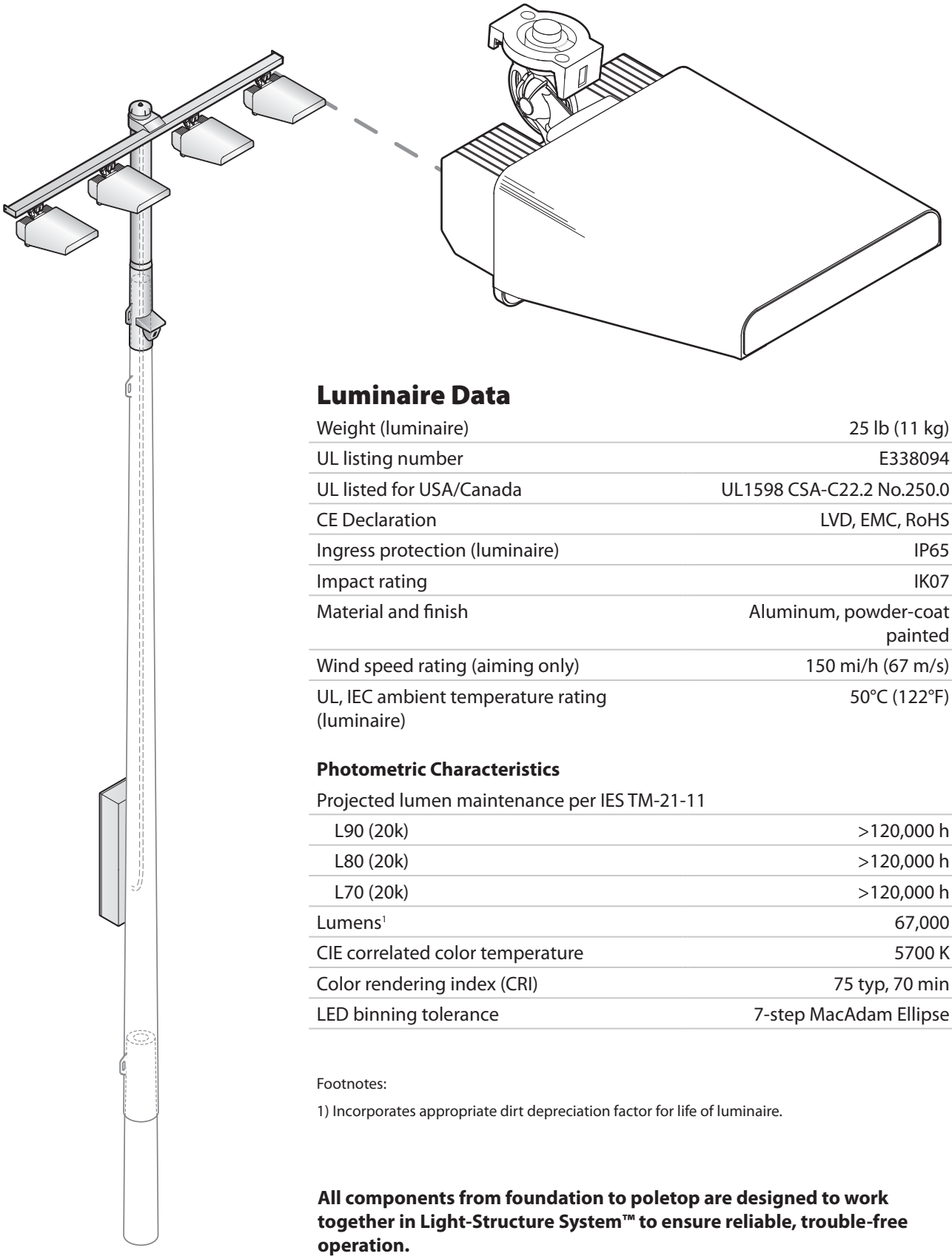
2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See Musco *Control System Summary* for circuit information.

Luminaire and Driver – TLC-LED-550

SPORTS LIGHTING FIXTURE



Luminaire Data

Weight (luminaire)	25 lb (11 kg)
UL listing number	E338094
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens[1]	67,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

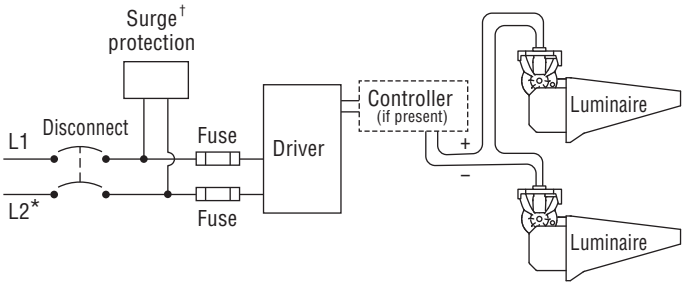
Luminaire and Driver – TLC-LED-550

Driver Data

Electrical Data

Rated wattage[1]	
Per driver	1080 W
Per luminaire	540 W
Number of luminaires per driver	2
Starting (inrush) current	<40 A, 256 µs
Fuse rating	15 A
UL, IEC ambient temperature rating, electrical components enclosure	50°C (122°F)
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	15 - 100%
Range, light output	20 - 100%
Flicker	<2%
Total harmonic distortion (THD) at full output	<20%

Typical Wiring



* If L2 is neutral then not switched or fused.
† Not present if indoor installation.

	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire[2]	3.32 A	3.19 A	3.02 A	2.89 A	2.77 A	2.40 A	1.92 A	1.75 A	1.66 A	1.60 A	1.39 A

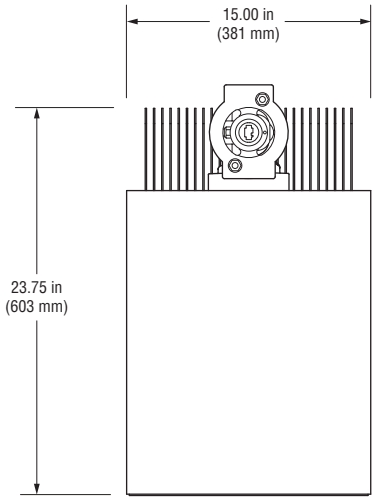
Footnotes:

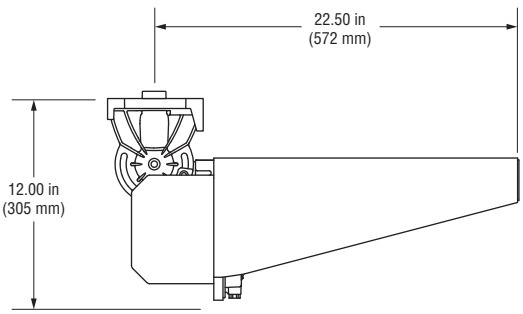
1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.

2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.





Project		Catalog #		Type	S
Prepared by		Notes	DUGOUT FIXTURE	Date	

Fail-Safe

FVS4

High Abuse / Vandal Resistant
4" Wide / 3.75" Deep
2', 3', 4', 8' Lengths
Polycarbonate Lens
Surface, Ceiling or Wall

Typical Applications:

Vandal Resistant • Schools • Dormitories • Hallways • Locker Rooms • Showers • Canopies • Public Spaces • Maintenance Facilities • Mezzanines • Stairwells • Restrooms • Storage Facilities • Behavioral Health

Interactive Menu

Product Certification

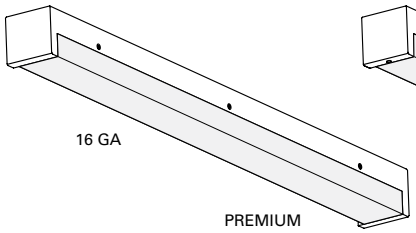
Top Product Features

Product Features

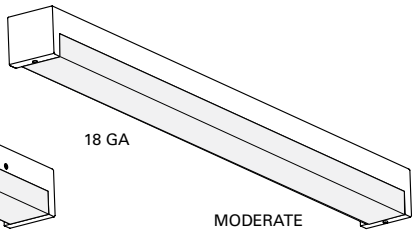
- Cold-rolled steel or stainless steel housing available
- 4" nominal width, 3.75" depth - 2', 3', 4', and 8' lengths
- Damp location standard; wet location under covered ceiling available
- Continuous row utilziing end knock-outs
- 16 ga. steel housing (FVSP) for durability. 18 ga. steel FVSM standard
- Internal occupancy sensor available, behind the lens
- Opal smooth or clear prismatic polycarbonate lens. Lifetime lens warranty. IK10 impact resistance rating.
- Damp location standard; wet location under covered ceiling available
- Options to meet Buy American Act requirements
- **Ligature resistant**; ceiling mount
- 10-Day Quick Spec available. Ship 10 days from receipt of PO

Dimensional and Mounting Details

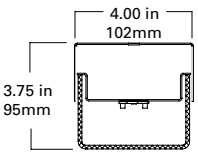
FVS4P



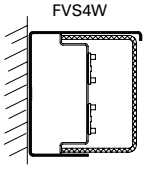
FVS4M



CEILING or WALL MOUNT
FVS4



WALL MOUNT
FVS4W



FVS4P	
Length	# Screws each side
2'	2
3'	2
4'	3
8'	5

Housing	FVS4P	FVS4M
	16GA Steel	18GA Steel
Listing	UL Damp, Wet Optional	UL Damp, Wet Optional
Construction	Screws along fixture edge	Set Screws on Endcaps

additional product diagrams

Order Information

SAMPLE NUMBER: **FVS4WM-8-LD4-2STD-35-UNV-OPL-EDC1-EL7W**
SAMPLE NUMBER: **FVS4P-4-LD4-2STD-30-120-P187-EDC1-OS1-WL**
10-DAY QUICK SPEC SAMPLE NUMBER: **QS-FVS4M-4-LD4-1HI-35-UNV-P125-EDC1**

Gray bar denotes available with 10-Day Quick Spec

	FVS4	M	4	LD4		HI
Domestic Preferences	Product Family		Length	LED	No. of LEDs	Illumination Level

Domestic Preferences (7)	Product Family		Length	LED	No. of LEDs	Illumination Level
[Blank]=Standard **BAA**=Buy American Act	**FVS4**=High Abuse 4" Wide Surface Luminaire **QS-FVS4**=High Abuse 4" Wide Surface Luminaire, Quick Spec (8) **FVS4W**=High Abuse 4" Wide Surface Wall Mount Luminaire	**M**=Moderate **P**=Premium	**2**=2' length (4), (6) **3**=3' length **4**=4' length **8**=8' length	**LD4**=Linear LED, Version 4	**1**=1 row LED module in X-section **2**=2 rows LED module in X-section (1), (4)	**LO**=Low **STD**=Standard **HI**=High
Notes (7) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Notes** (8) 10 day ship, from receipt of clean PO to ship date. 25 unit maximum per PO. QS available only with shaded options. EL14W only available with QS as 4ft length with 1LO, 1STD, 1HI.		**Notes** (4) 2HI with 2 circuits not available in 2ft length. (6) 2' length fixture with 2 circuits and OS1 or OS2 is not available.		**Notes** (1) Up to 1HI only with Emergency Battery Pack. 1LO, 1STD, 1HI available with EL7W and EL14W. 2 LED cross-section not available. (4) 2HI with 2 circuits not available in 2ft length.	

35	UNV	P187	EDD1		
Color Temperature	Voltage	Lens	Driver	Options	Finish

Color Temperature	Voltage	Lens	Driver	Options	Finish
30=3000K **35**=3500K **40**=4000K **50**=5000K	**120**=120 Volt **277**=277 Volt **UNV**=120-277 Volt	**P125=**.125" Clear polycarbonate prismatic lens **P187=**.187" Clear polycarbonate prismatic lens **OPL=** .125" Polycarbonate smooth opal lens	**EDC1**=Electronic driver, Non-Dimming, 1 circuit **EDC2**=Electronic driver, Non-Dimming, 2 circuits **EDD1**=Electronic driver, Dimming 10%, 1 circuit **EDD2**=Electronic driver, Dimming 10%, 2 circuits **ED1D1**=Electronic driver, Dimming 1%, 1 circuit **ED1D2**=Electronic driver, Dimming 1%, 2 circuits	**EL7W**=7 watt EM Pack (1), (2) **EL14W**=14 watt EM Pack (1), (2), (8) **SHP**=Stainless steel, painted housing **SHB**=Stainless steel, brushed housing **OS1**=Internal Occupancy Sensor (behind lens), connected to one LED module. Specify 120 or 277 voltage. (5), (6) **OS2**=Internal Occupancy Sensor (behind lens), connected to two LED modules. Specify 120 or 277 voltage. (5), (6) **WL**=Wet location, listed under covered ceiling for FVS4P and FVS4M. WL not available on FVS4WP or FVS4WM. **90**=90CRI (not available in 3ft length).	**[Blank]**=Matte White **BK**=Black **DP**=Dark Platinum **GW**=Gloss White **AM**=Anti-microbial Matte White
				Notes (1) Up to 1HI only with Emergency Battery Pack. 1LO, 1STD, 1HI available with EL7W and EL14W. 2 LED cross-section not available. (2) EL7W not available in 2ft length. EL14W not available in 2ft or 3ft length. (5) OS1 and OS2 require 120 or 277 to be specified in the ordering logic. (6) 2' length fixture with 2 circuits and OS1 or OS2 is not available.	**Notes** Custom colors available, with customer provided RAL number. Consult Technical Support with any questions.

Product Specifications

Fasteners

- **FVSP** - Captive, stainless steel, countersunk, flush, tamperproof, T20 TORX ®-head screws prevent unauthorized access. Screw heads painted to match housing color/finish.
- **FVSM** - 2 white T20 TORX screws prevent unauthorized access.

Housing

- Die-formed 16 ga. Steel (FVS4P), 18 ga. Steel (FVS4M) with welded and ground ends. Stainless steel housing available.

Finish

- Matte white electrostatically applied, white powder coat finish.
- Gloss white and anti-microbial white painted finish available.

Gasket

- Concealed, polyurethane end gaskets inhibit the entrance of environmental contaminants.

Lens

- Nominal 0.125", UV stabilized, clear Pattern 12, impact-resistant, prismatic polycarbonate refractor for high efficiency, low surface brightness and maximum strength. Opal smooth available. .187" thick clear Pattern 12 prismatic polycarbonate available.
- Lifetime Lens Warranty.

LEDs

- Available with 3000K, 3500K,4000K, 5000K with minimum of 80CRI. 90 CRI available (except 3' length)
- Projected life is 50,000 hours at 70% lumen maintenance.

Lens Retention

- The FVS4P double wall lens channel captivates lens to prevent unauthorized fixture penetration. Screws along each side to ensure maximum lens captivation. FVS4M incorporates (2) tamper resistant screws, one on each endcap.

Transformer/Driver

- Electronic driver 120V-277V, 0-10V, dimming standard.

Compliance

- UL listed for damp location. Wet location listed under covered ceiling optional, FVS4P & FVS4M.

Warranty

- 5 Year warranty on LED's and electrical.
- Fail-Safe will repair or replace any vandal resistant / high abuse luminaire, that is deemed non-funcational due to physical damage to the luminaire exterior housing or polycarbonate lens. The luminaire must be installed correctly, and the warranty does not include any interior component, nor does it include damage due to gunfire, paint, caustic material / chemicals, disastrous or abnormal events.

Nominal Input Watts

View IES files

LENGTH	# Modules in Cross-Section	Illumination Level	Nominal Input Watts	Color Temp	LENS P125 Nominal Delivered Lumens	LENS P187 Nominal Delivered Lumens	LENS OPL Nominal Delivered Lumens
2'	1	LO	12.3	30 35 40 50	1266 1290 1316 1434	1230 1254 1279 1394	849 865 882 961
	1	STD	16.9	30 35 40 50	1723 1756 1791 1952	1675 1707 1741 1897	1155 1177 1201 1309
	1	HI	22.2	30 35 40 50	2125 2166 2209 2408	2065 2105 2147 2340	1425 1452 1481 1614
	2	LO	24.1	30 35 40 50	2614 2664 2717 2962	2540 2588 2640 2878	1648 1679 1713 1867
	2	STD	33.9	30 35 40 50	3475 3541 3612 3937	3376 3440 3509 3825	2190 2232 2277 2482
	2	HI	44.8	30 35 40 50	4266 4347 4434 4833	4145 4223 4308 4696	2689 2740 2795 3047
3'	1	LO	21.3	30 35 40 50	2384 2429 2478 2701	2254 2296 2343 2553	1545 1574 1606 1751
	1	STD	28.5	30 35 40 50	3067 3125 3188 3475	2899 2954 3014 3285	1988 2025 2066 2252
	1	HI	36.3	30 35 40 50	3699 3770 3845 4191	3497 3564 3635 3962	2397 2442 2492 2716
	2	LO	56.8	30 35 40 50	5909 6022 6142 6695	5575 5682 5795 6317	3567 3635 3708 4042
	2	STD	64.0	30 35 40 50	6545 6671 6804 7416	6175 6294 6420 6997	3951 4027 4107 4477
	2	HI	71.7	30 35 40 50	7136 7273 7418 8086	6733 6862 6999 7629	4308 4390 4478 4881
4'	1	LO	23.6	30 35 40 50	2594 2643 2696 2939	2515 2563 2614 2850	1707 1739 1774 1934
	1	STD	33.6	30 35 40 50	3476 3542 3613 3938	3370 3434 3503 3818	2287 2330 2377 2591
	1	HI	44.5	30 35 40 50	4274 4356 4443 4843	4144 4224 4308 4696	2812 2866 2923 3186
	2	LO	57.4	30 35 40 50	6015 6130 6253 6816	5848 5960 6080 6627	3756 3828 3905 4256
	2	STD	67.5	30 35 40 50	6853 6984 7124 7765	6663 6791 6927 7550	4279 4361 4448 4849
	2	HI	89.3	30 35 40 50	8335 8494 8664 9444	8104 8259 8424 9182	5205 5304 5410 5897

NOTICE OF PUBLIC HEARING
CITY OF LOUISBURG

The Louisburg Planning Commission will hold a public hearing at 6:00 P.M. on May 28, 2025, in the Council Chambers, 215 South Broadway, Louisburg, Kansas to consider a Variance application to allow for a deviation to the maximum structure height located within an "R-1" Single-Family Dwelling District as provided for by the City of Louisburg Zoning Regulations, pursuant to Article 5, Section 502, for property generally located south of East Amity Street and east of South Countryside Drive.

Case No. 25001-VAR
Deviation of the maximum structure height for sports field lighting
Unified School District 416

Proposed Variance: To allow sports field lighting system to exceed maximum height of thirty-five (35) feet for system that will illuminate proposed baseball / softball fields.

Legal Description

PARCEL DESCRIPTION:

S32, T16, R25, ACRES 51.09, TR BEG 35S NE/C NW4 TH S2435.5 (S) W340 S180 W410 N665.9 E202.5 N388.3 NWLY480 W316.2 N60 E379 N115 W379 N362.8 W280

TITLE DESCRIPTION:

Tract I: Beginning at the Northwest corner of the East half of the Northwest Quarter of Section 32, Township 16, Range 25, Miami County, Kansas, thence South to a point 362.80 feet North of the Northwest corner of Lot 7, Block 1, Country Side Meadows Addition to the City of Louisburg, thence East 280 feet, thence South 362.80 feet, thence East 379 feet, thence South 115 feet, thence East to the East line of the Northwest Quarter of said Section 32, thence North to the Northeast corner of said Northwest Quarter, thence West to the point of beginning, subject to that part in roads or streets.

Tract Il: Beginning at a point 580 feet East of the Southwest corner of the East half of the Northwest Quarter of Section 32, Township 16 South, Range 25 East, said point being on the south line of the Northwest Quarter of said Section 32; thence North 665.97 feet, thence East 202.59 feet, thence North 388.34 feet to the Southeast corner of Lot 11, Block 1, Country Side Meadows Addition, City of Louisburg, thence North 22 degrees 21 minutes West 480 feet to the Northeast corner of Lot 9, Block 1, Country Side Meadows Addition, City of Louisburg, thence West along the North in of said Lot 9, Block 1, a distance of 316.2 feet to the Northwest corner of said Lot 9, Block 1, thence North along the West line of Lot 8, Block 1, Country Side Meadows Addition, City of Louisburg, a distance of 60 feet, thence East a distance of 1044.06 feet to the East line of the Northwest Quarter of said Section 31 , thence South along the East line of said Section 32, a distance of 1567.5 feet to the center of said Section 32, thence West along the South line of the Northwest Quarter of said Section

32, a distance of 750 feet to the place of beginning, all being a part of the East half of the Northwest Quarter of Section 32, Township 16 South, Range 25 East, City of Louisburg, Miami County, Kansas, except that part in streets or roads.

Except the following:

A tract of land in the Northwest Quarter of Section 32, Township 16 South, Range 25 East of the Sixth Principal Meridian, being more particularly described as follows: Beginning at the center of Section 32, Township 16 South, Range 25 East, the TRUE POINT OF BEGINNING; thence West for a distance of 340.00 feet along the South line of the Northwest Quarter of Section 32; thence North for a distance of 180.00 feet parallel with the East line of said Quarter Section; thence East a distance of 340.00 feet parallel with the South line of said Quarter Section to the East line of the Northwest Quarter of Section 32; thence South along the East line of said Quarter Section to the TRUE POINT OF BEGINNING all being a part of the East half of the Northwest Quarter of Section 32, Township 16 South, Range 25 East, City of Louisburg, Miami County.

Anyone wishing to address this application may attend the public hearing or submit written comments to the Board of Zoning Appeals. Information regarding this application may be obtained before the hearing by contacting the Louisburg Planning & Development Department, 215 South Broadway, Louisburg, Kansas 66053.

If you require accommodations (qualified interpreter, hearing assistance, etc.) in order to attend this meeting, please contact Katherine Louderbaugh at (913) 837-5811 at least 48 hours in advance.