

**ADDENDUM TO INITIAL STUDY/
MITIGATED NEGATIVE DECLARATION
(SCH No. 2020059026)**

**SAN MATEO UNION HIGH SCHOOL DISTRICT
MILLS HIGH SCHOOL ATHLETICS COMPLEX PROJECT**

April 2021

Prepared For:
San Mateo Union High School District
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San Mateo, CA 94401

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1.0 INTRODUCTION AND BACKGROUND

1.1 INTRODUCTION

This environmental document is an Addendum to the San Mateo Union High School District's (SMUHSD or District) Mills High School Athletics Complex Project Initial Study/Mitigated Negative Declaration (IS/MND), State Clearinghouse No. 2020059026, adopted in October 2020 by the SMUHSD. The SMUHSD is the lead agency under CEQA.

This Addendum addresses refinements to the project's light impacts analysis. As demonstrated in this Addendum, the IS/MND continues to serve as the appropriate document addressing the environmental impacts of these improvements pursuant to California Environmental Quality Act (CEQA).

1.2 BACKGROUND

The IS/MND was prepared to address construction and operational impacts of the proposed Mills High School Athletics Complex Project (Approved Project). The IS/MND evaluated potential environmental effects on aesthetics, agriculture and forestry resources, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation/traffic, utilities and service systems, and mandatory findings of significance. All impacts identified in the IS/MND were either less than significant or have been mitigated to below a level of significance through implementation of mitigation measures identified in the document and subsequently incorporated into the project by IS/MND the District. One of the mitigation measures, Mitigation AES-1, addressed altering the lighting plan to assure that light and glare impacts to adjacent properties would be less than 10,000 candelas. The lighting plan has been adjusted and additional analysis indicates that the light and glare impacts of the project would now be below this threshold and therefore the mitigation measure is no longer necessary to reduce the impact to a less-than-significant level.

1.3 PURPOSE OF ADDENDUM TO THE IS/MND

When a proposed project is changed, there are changes in environmental setting, or additional analysis is required, a determination must be made by the Lead Agency as to whether an Addendum or Subsequent EIR or MND is prepared. CEQA Guidelines Sections 15162 and 15164 set forth criteria to assess which environmental document is appropriate. The criteria for

determining whether an Addendum or Subsequent MND is prepared are outlined below. If the criteria below are true, then an Addendum is the appropriate document:

- No new significant impacts will result from the project or from new mitigation measures.
- No substantial increase in the severity of environmental impact will occur.
- No new feasible alternatives or mitigation measures that would reduce impacts previously found not to be feasible have, in fact, been found to be feasible.

Based upon the information provided in Section 3.0 of this document, the changes to the Approved Project will not result in new significant impacts or substantially increase the severity of impacts previously identified in the IS/MND, and there are no previously infeasible alternatives that are now feasible. None of the other factors set forth in Section 15162(a)(3) are present. Therefore, an Addendum is appropriate. This Addendum addresses the environmental effects of the revised lighting plan and analysis.

2.0 PROJECT DESCRIPTION

2.1 Project Location And Setting

Mills High School is located at 400 Murchison Drive in the southeastern area of the City of Millbrae adjacent to the City of Burlingame, in San Mateo County. Regionally, the campus is accessed via from US Highway 101, via Millbrae Avenue and the Millbrae BART Station which is located approximately a quarter of a mile northeast of the campus.

The Mills High School campus is located north of Sequoia Avenue, southeast of Millbrae Avenue, southwest of South Magnolia Avenue, and northwest of Murchison Avenue. The project site, which encompasses the baseball field, multi-use field, tennis courts, and swimming pool, is at the northeastern and northwestern edges of the campus.

2.2. Previously Approved Project

The previously approved project is a reconfigured and improved athletics complex for the school including:

- Replacement of the existing practice field with a baseball field including a PA system and lighting;
- Replacing the tennis courts with a new soccer and softball field, with a PA system and lighting;
- Upgrades to the existing multi-use field;
- Construction of seven replacement tennis courts; and

- Adding lighting to the existing swim complex.

The adopted Mitigated Negative Declaration included the following mitigation measure regarding light and glare impacts:

Measure AES-1: Reduce Glare Impacts. To reduce significant glare impacts on the adjacent residents at their rear property lines to levels below 25,000 candelas, which is the threshold of significance the lighting proposed for the outfield shall be redesigned so that glare would not exceed 25,000 candelas at the rear property lines. This would reduce glare to acceptable levels.

2.2 PROPOSED PROJECT REVISIONS

The current project proposes minor adjustments to the lighting plan for the project described in the IS. No other changes to the project would occur. In addition, it has been determined on the basis of expert review that 25,000 candelas may not be adequately protective to assure that the impact would be less than significant. A revised threshold of 10,000 candelas has been selected by the District, on the basis of expert opinion supported by evidence, to assure that the impacts to nearby residents would be less than significant.

The project lighting engineers (Zeiger and Associates) and light system designers (Musco Lighting), conducted additional analyses to determine the actual lighting impacts to residents of the nearby houses and condominiums. The results of this analysis are discussed below.

3.0 ENVIRONMENTAL ANALYSIS

As explained in Section 1.0, this Addendum has been undertaken pursuant to the provisions of CEQA Sections 15162 and 15164 to provide the District with the factual basis for determining whether any changes in the project, any changes in circumstances, or any new information since the IS/MND was certified require additional environmental review or preparation of a Subsequent MND or EIR to the IS/MND previously prepared.

The environmental analysis provided in the IS/MND remains current and applicable to the proposed project in all areas, with a reduced impact on light and glare, as summarized below:

Aesthetics – Regarding lighting, the IS/MND concluded:

The glare impacts on adjacent residents would be limited to the areas shown in Figure 11, below. The figure indicates the maximum calenda, or amount of glare an observer would see when facing the brightest light source from any direction. High glare is considered to be 150,000 or more candelas. Significant glare is defined as 25,000 to 75,000 candelas, which is equivalent to the high beam headlights on a car. Minimal to

*no glare is 500 or fewer candelas, or equivalent to a 100-watt incandescent light bulb. Figure 11 shows that the glare from the lighting that some of the residents adjacent to the baseball field would experience would be up to 100,000 candelas. Additional lighting diagrams are provided in Appendix B. Because the residents located adjacent to the baseball field would be exposed to glare exceeding 25,000 candelas, the lighting would result in **significant glare impacts**. However, implementation of Mitigation Measure AES-1, below, would reduce these impacts to a **less than significant** level.*

Adjustments were made to the lighting plan and a refined glare light and impact analysis was conducted for the project (Attachment 1 to this Addendum). That analysis concluded that the IS glare impact analysis overstated the off-site glare values of these projects. That analysis was based a 2D model that shows values at the grade of the field(s) (i.e., on the field itself) and does not consider glare above or below this grade, such as at the elevations of the adjacent residential properties. At the site, there are residential properties that are either at a higher elevation than the field (thus looking down at the field), or a lower elevation than the field (thus looking up at the field). In order to address this deficiency, Musco added linear grids that follow along the residential property lines. These grids address the varied elevations along these lines as well, thus offering more accurate light and glare impact numbers. The measurements shown along the residential property lines are taken at +3' relative to the grade elevation, which is the standard for where light readings are taken. Per the latest Musco plans and analysis, the highest candela reading at the property lines adjacent to the Mills fields would be 8,644 candela, far below the 25,000-candela standard used in the IS, and also below the more conservative 10,000-candela threshold used in this Addendum.

In summation, the project would have lower off-site glare than that described in the IS, and would conform with both the IS's 25,000 candela and the new 10,000 candela significance thresholds. Therefore the impact would be less than significant and Mitigation Measure AES-1 is no longer required. That measure has been removed from the IS and the Mitigation Monitoring and Reporting Program for the project (Attachment 2 to this Addendum). Further, the last three sentences of the IS text above have been revised to read as follows:

*A detailed analysis of light and glare at the property line at a height of 3 feet above the ground surface indicates that the residents located adjacent to the baseball field would be exposed to glare of about 8650 candela, which would result in **less-than-significant glare impacts**. No mitigation is required.*

3.1 CONCLUSIONS

Based on the information provided above, the newly evaluated impacts of the minor revisions to the lighting plan would result in a decrease in the severity of the glare impacts such that

Mitigation AES-1 is no longer required. The conclusions of this Addendum remain consistent with those made in the IS/MND. No new significant impacts have been identified, nor is the severity of newly identified impacts substantially greater than the conclusions of the IS/MND.

Based upon the evidence included in the above analysis, the proposed project as described in Section 2.0 would not result in a substantial change in the conclusions and analysis included in the IS/MND, and no additional CEQA review is required.

Attachment A- Project Lighting Plan and Glare Studies

Mills High School Baseball Softball Pool

Millbrae, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	80'	80'	4	TLC-LED-1200	4.68 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		50'	2	TLC-LED-1200	2.34 kW	F
A2	80'	80'	2	TLC-LED-400	0.80 kW	I
		80'	4	TLC-LED-1200	4.68 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A3	60'	80'	2	TLC-LED-400	0.80 kW	I
		60'	3	TLC-LED-900	2.67 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
A4	60'	50'	1	TLC-LED-600	0.58 kW	C
		60'	2	TLC-LED-400	0.80 kW	I
		60'	1	TLC-LED-1200	1.17 kW	B
A5	60'	60'	2	TLC-LED-900	1.78 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		50'	1	TLC-LED-1200	1.17 kW	B
A6	60'	60'	2	TLC-LED-400	0.80 kW	I
		60'	1	TLC-LED-1200	1.17 kW	E
		60'	2	TLC-LED-900	1.78 kW	E
B1-B2	90'	16'	1	TLC-BT-575	0.58 kW	E
		60'	1	TLC-LED-1200	1.17 kW	D
		60'	2	TLC-LED-900	1.78 kW	D
B3	70'	16'	1	TLC-BT-575	0.58 kW	D
		90'	4	TLC-LED-1500	5.72 kW	A
		90'	2	TLC-LED-900	1.78 kW	A
B4	80'	16'	1	TLC-BT-575	0.58 kW	A
		50'	1	TLC-LED-900	0.89 kW	A
		90'	1	TLC-LED-400	0.40 kW	I
B5	70'	70'	4	TLC-LED-1200	4.68 kW	C
		70'	2	TLC-LED-1200	2.34 kW	E
		20'	1	TLC-BT-575	0.58 kW	C
B6	80'	50'	1	TLC-LED-600	0.58 kW	E
		70'	1	TLC-LED-400	0.40 kW	I
		80'	5	TLC-LED-1200	5.85 kW	C
B7	70'	80'	1	TLC-LED-400	0.40 kW	I
		16'	1	TLC-BT-575	0.58 kW	C
		70'	3	TLC-LED-1200	3.51 kW	E
C1	70'	16'	1	TLC-BT-575	0.58 kW	E
		60'	1	TLC-LED-600	0.58 kW	I
		70'	6	TLC-LED-1200	7.02 kW	E
C2	70'	16'	1	TLC-BT-575	0.58 kW	E
		70'	3	TLC-LED-1500	4.29 kW	A
		70'	2	TLC-LED-900	1.78 kW	A
P1-P4	50'	16'	2	TLC-BT-575	1.15 kW	A
		70'	2	TLC-LED-900	1.78 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
18	50'	70'	1	TLC-LED-1500	1.43 kW	A
		70'	6	TLC-LED-900	5.34 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
18	50'	50'	2	TLC-LED-600	1.16 kW	J
		40'	1	TLC-LED-400	0.40 kW	K
18			112		99.39 kW	

NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.

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Mills High School Baseball Softball Pool

Millbrae, CA

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Baseball	43.58 kW	42
B	Softball 1	4.7 kW	5
C	SB1/SO	15.51 kW	16
D	Softball 2	3.53 kW	4
E	SB2/SO	18.13 kW	18
F	BB Batting Cage	2.34 kW	2
I	BB/SB Egress	5.38 kW	13
J	Pool	4.64 kW	8
K	Pool Egress	1.6 kW	4

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	34
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	16
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	16
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	23
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	12
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	11

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Baseball Batting Cage	Horizontal Illuminance	32.8	20	41	2.03	1.64	F	2
Baseball Bullpen 1	Horizontal	30.2	18	38	2.08	1.68	A	42
Baseball Bullpen 2	Horizontal	29.8	10	44	4.49	2.98	A	42
Baseball (Infield)	Horizontal Illuminance	50.4	41	68	1.67	1.23	A	42
Baseball (Outfield)	Horizontal Illuminance	30.9	17	39	2.37	1.82	A	42
Lower Egress Pathway	Horizontal	3.44	1	6	5.94	3.44	I	13
Pool Bleacher 1 - Egress	Horizontal	10.2	6	14	2.52	1.69	K	4
Pool Bleacher 2 - Egress	Horizontal	4.88	4	6	1.58	1.22	K	4
Pool Deck - Egress	Horizontal	7.83	1	16	26.97	7.83	K	4
Pool Deck	Horizontal	20	3	38	12.29	6.65	J	8
Pool	Horizontal Illuminance	30.8	26	37	1.40	1.18	J	8
Property Line Spill @ 10	Max Candela (by Fixture)	25365	14.1	203956	14512.49	1805.35	A,B,C,D,E, F,I,J,K	112
Property Line Spill @ 10	Max Vertical Illuminance Metric	4.88	0	55.5	0.00		A,B,C,D,E, F,I,J,K	112
Property Line Spill @ 15	Max Candela (by Fixture)	19303	450	198199	440.55	42.91	A,B,C,D,E, F,I,J,K	112
Property Line Spill @ 15	Max Vertical Illuminance Metric	3.90	0.01	53.4	10207.17	390.45	A,B,C,D,E, F,I,J,K	112
Property Line Spill @ 5	Max Candela (by Fixture)	29776	9.19	222474	24197.95	3240.07	A,B,C,D,E, F,I,J,K	112
Property Line Spill @ 5	Max Vertical Illuminance Metric	5.04	0	52	0.00		A,B,C,D,E, F,I,J,K	112
Property Line Spill	Max Candela (by Fixture)	34413	8.10	244871	30227.26	4248.51	A,B,C,D,E, F,I,J,K	112
Property Line Spill	Max Vertical Illuminance Metric	5.15	0	47	0.00		A,B,C,D,E, F,I,J,K	112
Soccer	Horizontal Illuminance	35.7	20	48	2.42	1.78	C,E	34
Softball 1 (Infield)	Horizontal Illuminance	50.7	40	64	1.62	1.27	B,C	21
Softball 1 (Outfield)	Horizontal Illuminance	30.1	18	43	2.35	1.67	B,C	21
Softball 2 (Infield)	Horizontal Illuminance	51.2	36	67	1.88	1.42	E,D	22
Softball 2 (Outfield)	Horizontal Illuminance	31.2	19	45	2.30	1.64	E,D	22
Softball Bullpen 1	Horizontal	26.7	17	33	1.96	1.57	C	16
Softball Bullpen 2	Horizontal	34.4	28	40	1.42	1.23	E	18
Softball Bullpen 3	Horizontal	30.9	15	43	2.77	2.06	B	5

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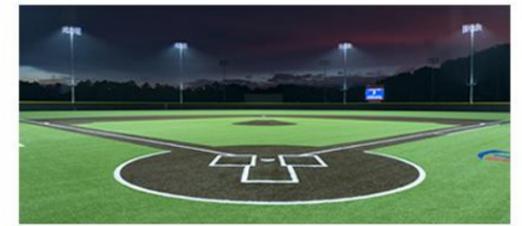
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Mills High School Baseball Softball Pool

Millbrae, CA

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Spill	Horizontal	0.20	0	3.17	0.00		A,B,C,D,E, F,I,J,K	112
Spill	Max Candela (by Fixture)	2780	0	8644	0.00		A,B,C,D,E, F,I,J,K	112
Spill	Max Vertical Illuminance Metric	0.27	0	3.35	0.00		A,B,C,D,E, F,I,J,K	112
Upper Pathway Egress	Horizontal	5.64	1	15	18.12	5.64	I	13

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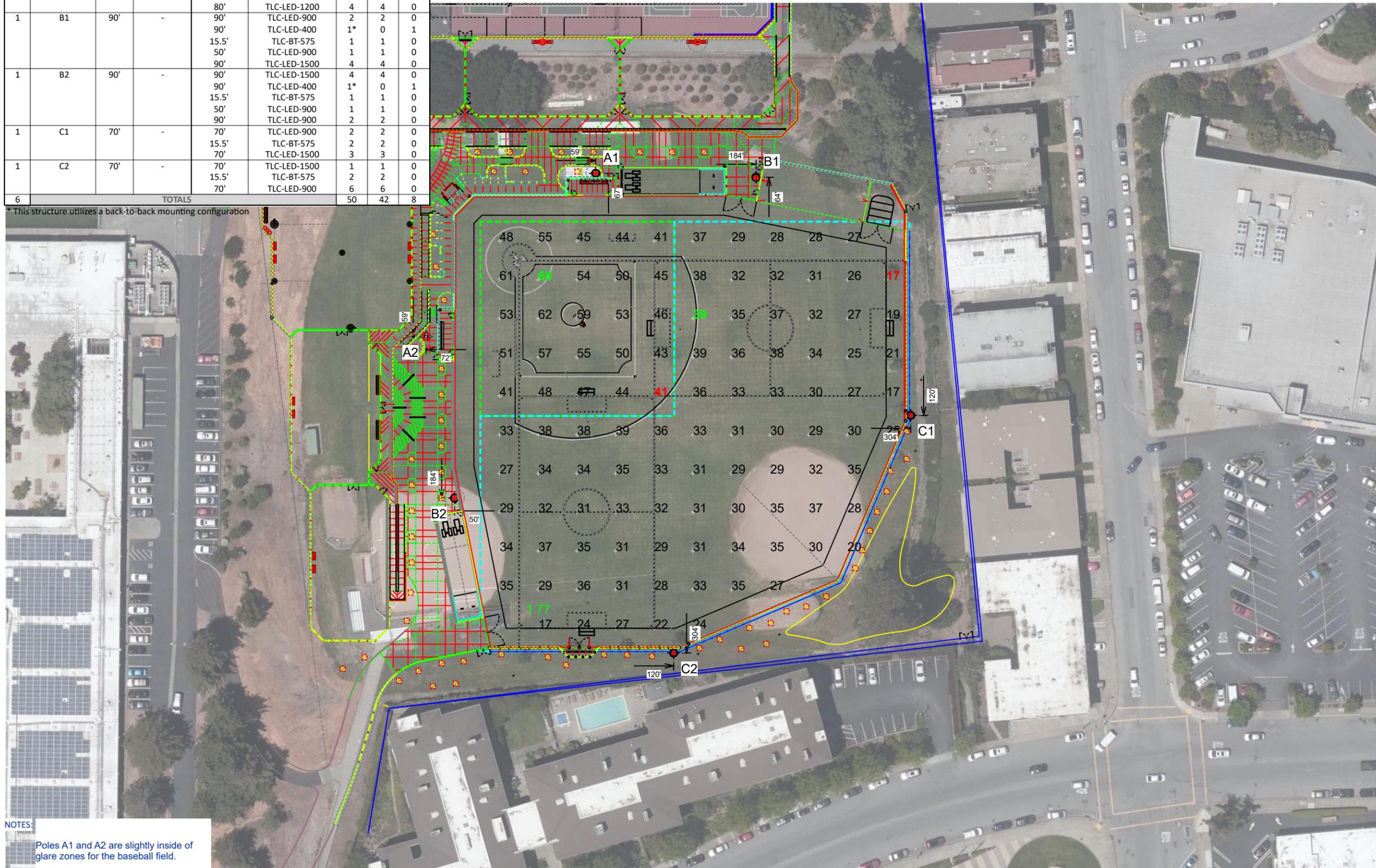


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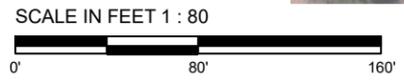
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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	-	80'	TLC-LED-400	2*	0	2	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-1200	2	0	2	
				80'	TLC-LED-1200	4	4	0	
1	A2	80'	-	80'	TLC-LED-400	2*	0	2	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	4	4	0	
				90'	TLC-LED-900	2	2	0	
1	B1	90'	-	90'	TLC-LED-900	2	2	0	
				90'	TLC-LED-400	1*	0	1	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-900	1	1	0	
1	B2	90'	-	90'	TLC-LED-1500	4	4	0	
				90'	TLC-LED-400	1*	0	1	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-900	1	1	0	
1	C1	70'	-	70'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-1500	3	3	0	
				70'	TLC-LED-900	2	2	0	
1	C2	70'	-	70'	TLC-LED-1500	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-900	6	6	0	
				70'	TLC-LED-900	6	6	0	
6	TOTALS					50	42	8	

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Baseball
Size:	Irregular 303' / 353' / 303'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.39	30.94
Maximum:	68	39
Minimum:	41	17
Avg / Min:	1.24	1.87
Guaranteed Max / Min:	2	2.5
Max / Min:	1.67	2.37
UG (adjacent pts):	1.29	1.77
CU:	0.74	
No. of Points:	25	83
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	42	
Total Load:	43.58 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.



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	80'	-	80'	TLC-LED-400	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-1200	2	0	2
				80'	TLC-LED-1200	4	4	0
1	A2	80'	-	80'	TLC-LED-400	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1200	4	4	0
				90'	TLC-LED-900	2	2	0
1	B1	90'	-	90'	TLC-LED-400	1*	0	1
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-900	1	1	0
				90'	TLC-LED-1500	4	4	0
1	B2	90'	-	90'	TLC-LED-1500	4	4	0
				90'	TLC-LED-400	1*	0	1
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-900	1	1	0
1	C1	70'	-	70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-1500	1	1	0
1	C2	70'	-	70'	TLC-LED-1500	1	1	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-900	6	6	0
				70'	TLC-LED-900	6	6	0
6	TOTALS					50	42	8

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Baseball Bullpen 1
Size:	Irregular 303' / 353' / 303'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	30.17
Maximum:	38
Minimum:	18
Avg / Min:	1.66
Max / Min:	2.08
UG (adjacent pts):	1.46
CU:	0.01
No. of Points:	17
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	42
Total Load:	43.58 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.



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	-	80'	TLC-LED-400	2*	0	2	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-1200	2	0	2	
				80'	TLC-LED-1200	4	4	0	
1	A2	80'	-	80'	TLC-LED-400	2*	0	2	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	4	4	0	
				90'	TLC-LED-900	2	2	0	
1	B1	90'	-	90'	TLC-LED-400	1*	0	1	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-900	1	1	0	
				90'	TLC-LED-1500	4	4	0	
1	B2	90'	-	90'	TLC-LED-1500	4	4	0	
				90'	TLC-LED-400	1*	0	1	
				15.5'	TLC-BT-575	1	1	0	
				50'	TLC-LED-900	1	1	0	
1	C1	70'	-	70'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-1500	3	3	0	
				70'	TLC-LED-900	2	2	0	
1	C2	70'	-	70'	TLC-LED-1500	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-900	6	6	0	
6	TOTALS					50	42	8	

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Baseball Bullpen 2
Size:	Irregular 303' / 353' / 303'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	29.76
Maximum:	44
Minimum:	10
Avg / Min:	3.05
Max / Min:	4.49
UG (adjacent pts):	1.69
CU:	0.01
No. of Points:	18
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	42
Total Load:	43.58 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.

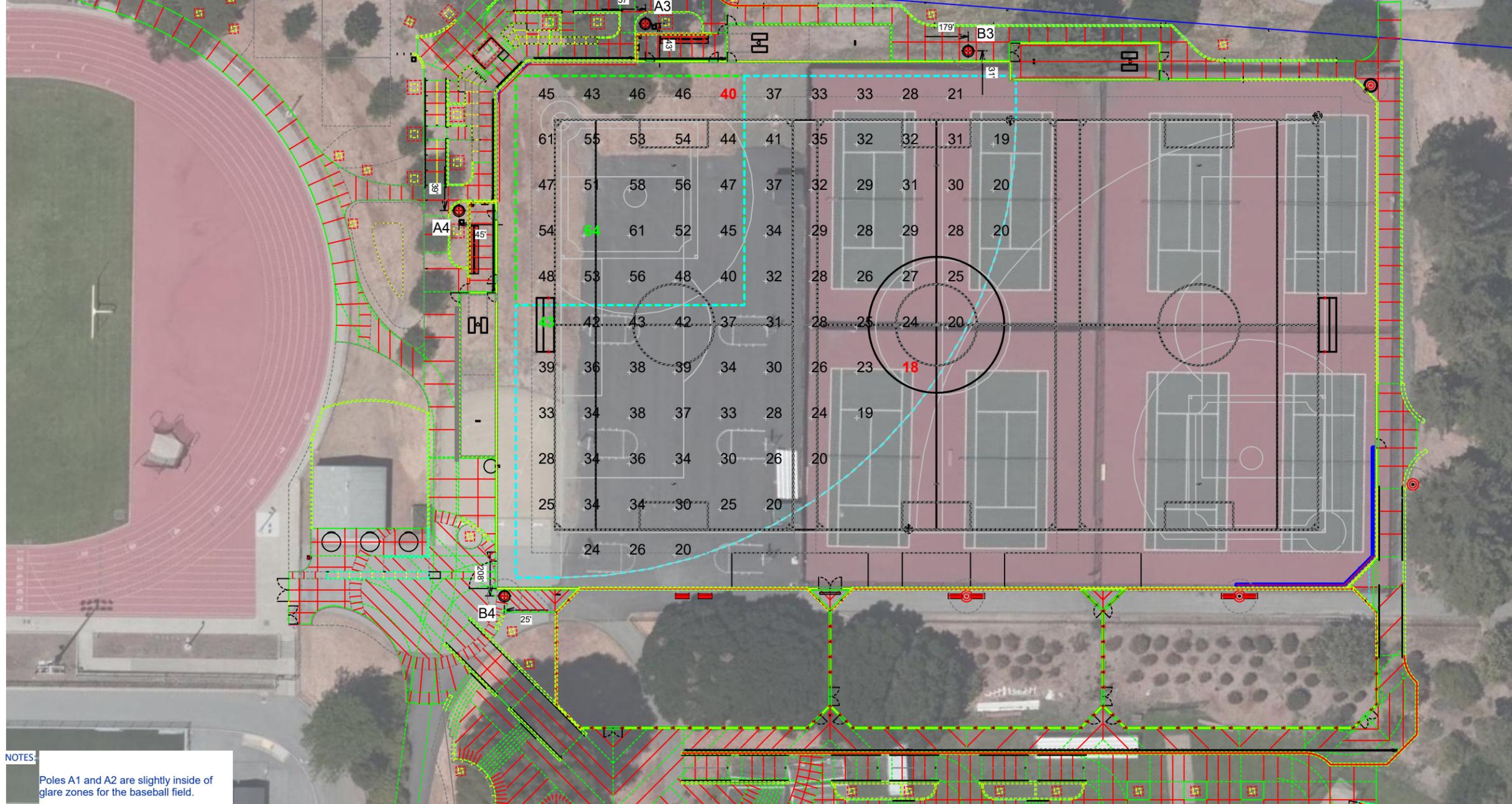
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



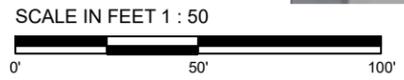
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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A3	60'	-	60'	TLC-LED-400	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	A4	60'	-	60'	TLC-LED-900	2	2	0
				60'	TLC-LED-400	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-1200	1	1	0
				60'	TLC-LED-1200	1	1	0
1	B3	70'	-	70'	TLC-LED-400	1*	0	1
				20'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	0	1
				70'	TLC-LED-1200	6	4	2
1	B4	80'	-	80'	TLC-LED-400	1	0	1
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1200	5	5	0
				80'	TLC-LED-1200	5	5	0
4	TOTALS					30	21	9

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Softball 1
Size:	200'/200'/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:	50.66	30.11
Maximum:	64	43
Minimum:	40	18
Avg / Min:	1.28	1.64
Guaranteed Max / Min:	2	2.5
Max / Min:	1.62	2.35
UG (adjacent pts):	1.35	1.64
CU:	0.63	
No. of Points:	25	71
LUMINAIRE INFORMATION		
Applied Circuits:	B, C	
No. of Luminaires:	21	
Total Load:	20.2 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.



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A3	60'	-	60'	TLC-LED-400	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	B3	70'	-	70'	TLC-LED-400	1*	0	1
				20'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	0	1
				70'	TLC-LED-1200	6	4	2
				80'	TLC-LED-400	1	0	1
1	B4	80'	-	80'	TLC-LED-400	1	1	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1200	5	5	0
3	TOTALS					23	16	7

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



GRID SUMMARY	
Name:	Softball Bullpen 1
Size:	200'/200'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	26.70
Maximum:	33
Minimum:	17
Avg / Min:	1.60
Max / Min:	1.96
UG (adjacent pts):	1.32
CU:	0.02
No. of Points:	14
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	16
Total Load:	15.51 kW

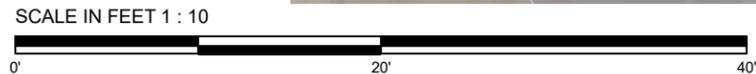
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	
1	A5	60'	0'	60'	TLC-LED-1200	1	1	
				15.5'	TLC-BT-575	1	1	
				60'	TLC-LED-900	2	2	
1	B3	70'	-	70'	TLC-LED-400	1*	0	
				20'	TLC-BT-575	1	0	
				50'	TLC-LED-600	1	1	
				70'	TLC-LED-1200	6	2	
				70'	TLC-LED-1200	6	2	
1	B6	70'	0'	15.5'	TLC-BT-575	1	1	
				60'	TLC-LED-600	1	0	
				70'	TLC-LED-1200	3	3	
1	B7	70'	0'	15.5'	TLC-BT-575	1	1	
				70'	TLC-LED-1200	6	6	
				70'	TLC-LED-1200	6	6	
4	TOTALS					25	18	7

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

GRID SUMMARY	
Name:	Softball Bullpen 2
Size:	200'/200'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

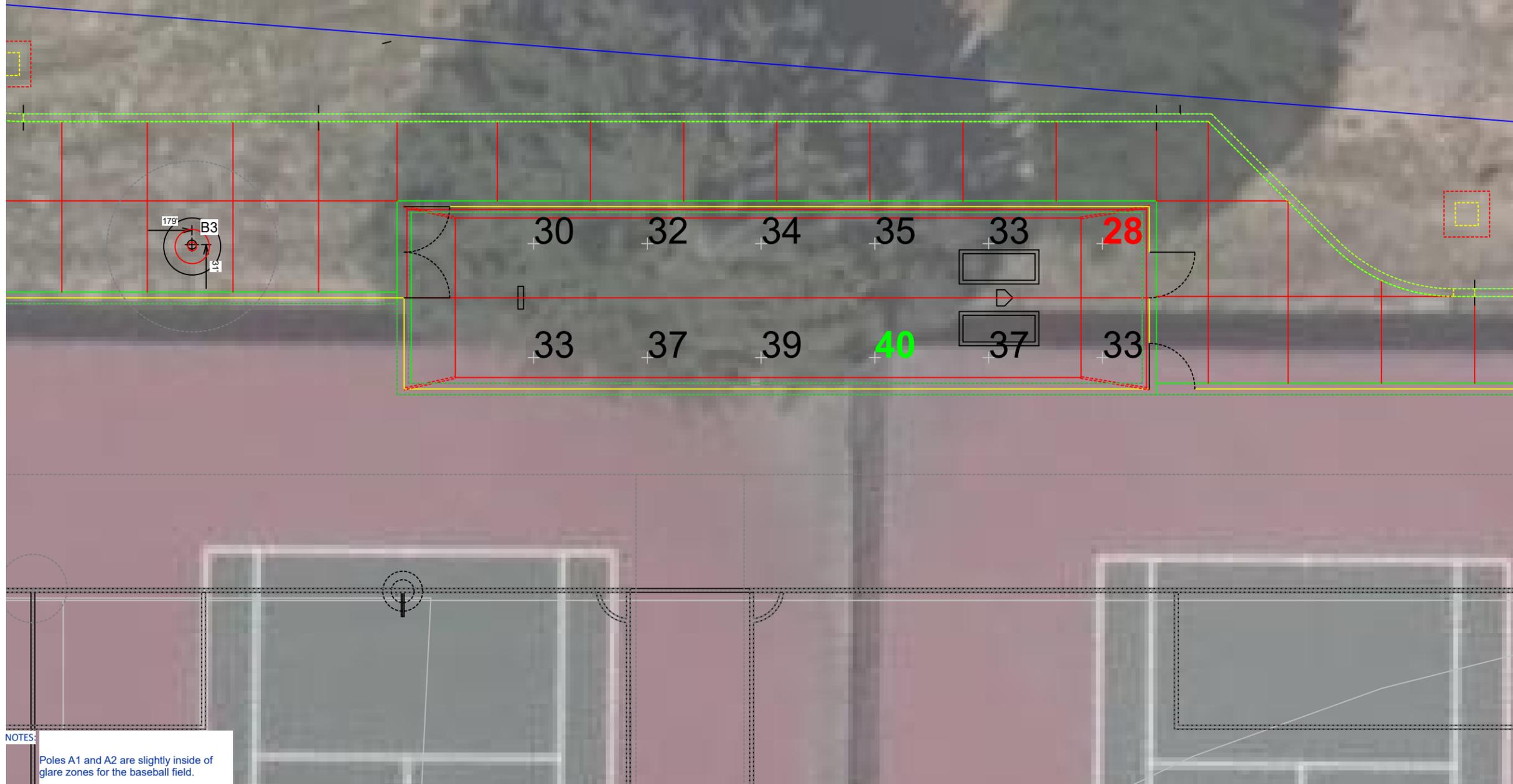
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	34.41
Maximum:	40
Minimum:	28
Avg / Min:	1.22
Max / Min:	1.42
UG (adjacent pts):	1.17
CU:	0.02
No. of Points:	12
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	18
Total Load:	18.13 kW

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

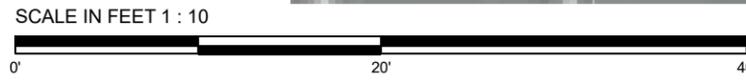
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.

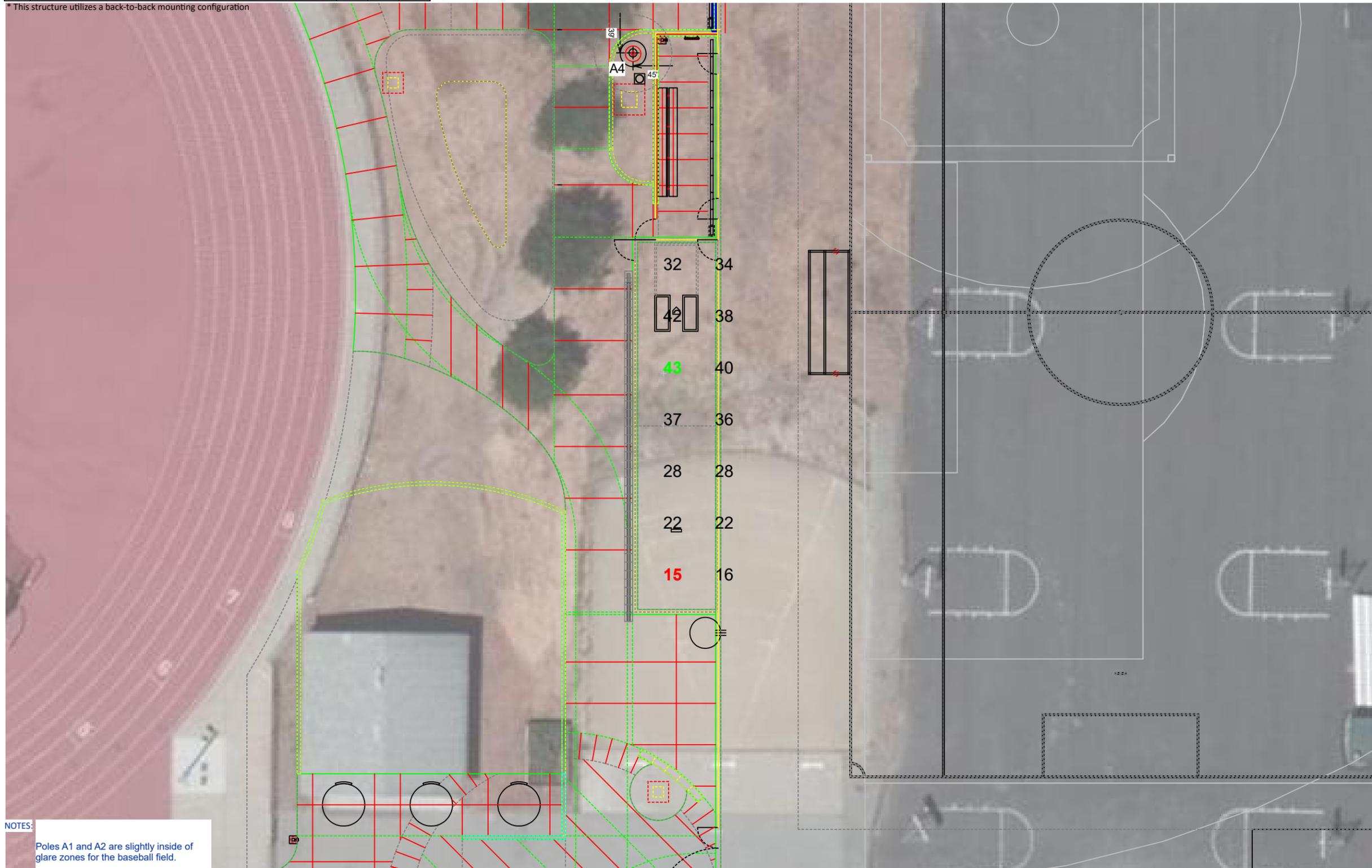


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID / OTHER GRIDS
1	A4	60'	-	60'	TLC-LED-900	2	2 0
				60'	TLC-LED-400	2*	0 2
				15.5'	TLC-BT-575	1	1 0
				50'	TLC-LED-1200	1	1 0
				60'	TLC-LED-1200	1	1 0
1	TOTALS					7	5 2

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Softball Bullpen 3
Size:	200'/200'/200' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	30.87
Maximum:	43
Minimum:	15
Avg / Min:	2.00
Max / Min:	2.77
UG (adjacent pts):	1.39
CU:	0.09
No. of Points:	14
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	5
Total Load:	4.7 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.



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A5	60'	-	60'	TLC-LED-1200	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	2	2	0	
1	A6	60'	0'	60'	TLC-LED-1200	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	2	2	0	
1	B3	70'	0'	70'	TLC-LED-400	1*	0	1	
				20'	TLC-BT-575	1	0	1	
				50'	TLC-LED-600	1	1	0	
				70'	TLC-LED-1200	6	2	4	
				15.5'	TLC-BT-575	1	1	0	
1	B6	70'	-	60'	TLC-LED-600	1	0	1	
				70'	TLC-LED-1200	3	3	0	
				15.5'	TLC-BT-575	1	1	0	
1	B7	70'	-	70'	TLC-LED-1200	6	6	0	
				TOTALS		29	22	7	

GRID SUMMARY	
Name:	Softball 2
Size:	180'/180'/180' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

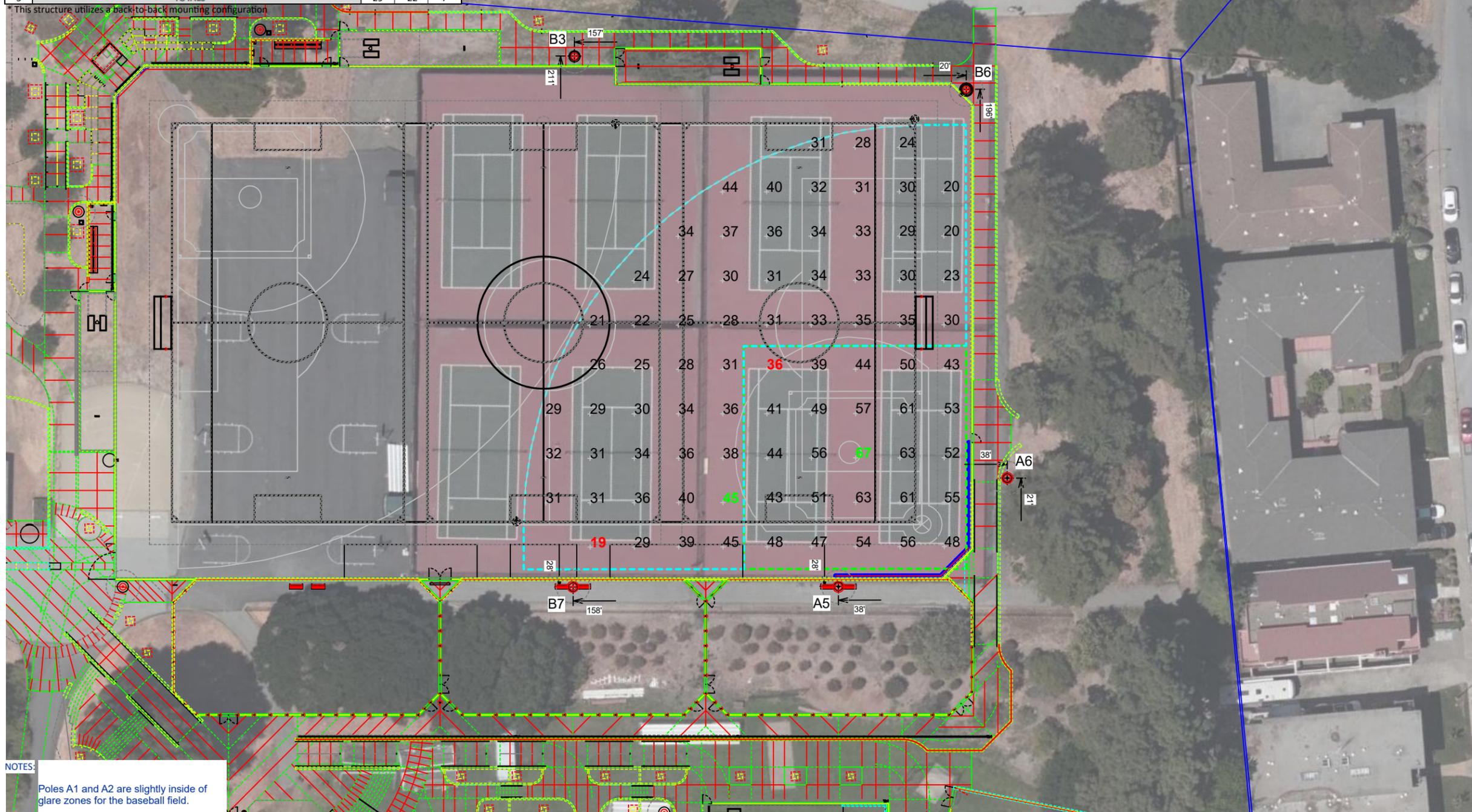
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.24	31.18
Maximum:	67	45
Minimum:	36	19
Avg / Min:	1.44	1.61
Guaranteed Max / Min:	2	2.5
Max / Min:	1.88	2.30
UG (adjacent pts):	1.30	1.59
CU:	0.51	
No. of Points:	25	56
LUMINAIRE INFORMATION		
Applied Circuits:	D, E	
No. of Luminaires:	22	
Total Load:	21.65 kW	

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

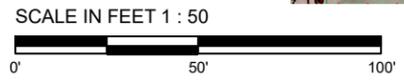
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.

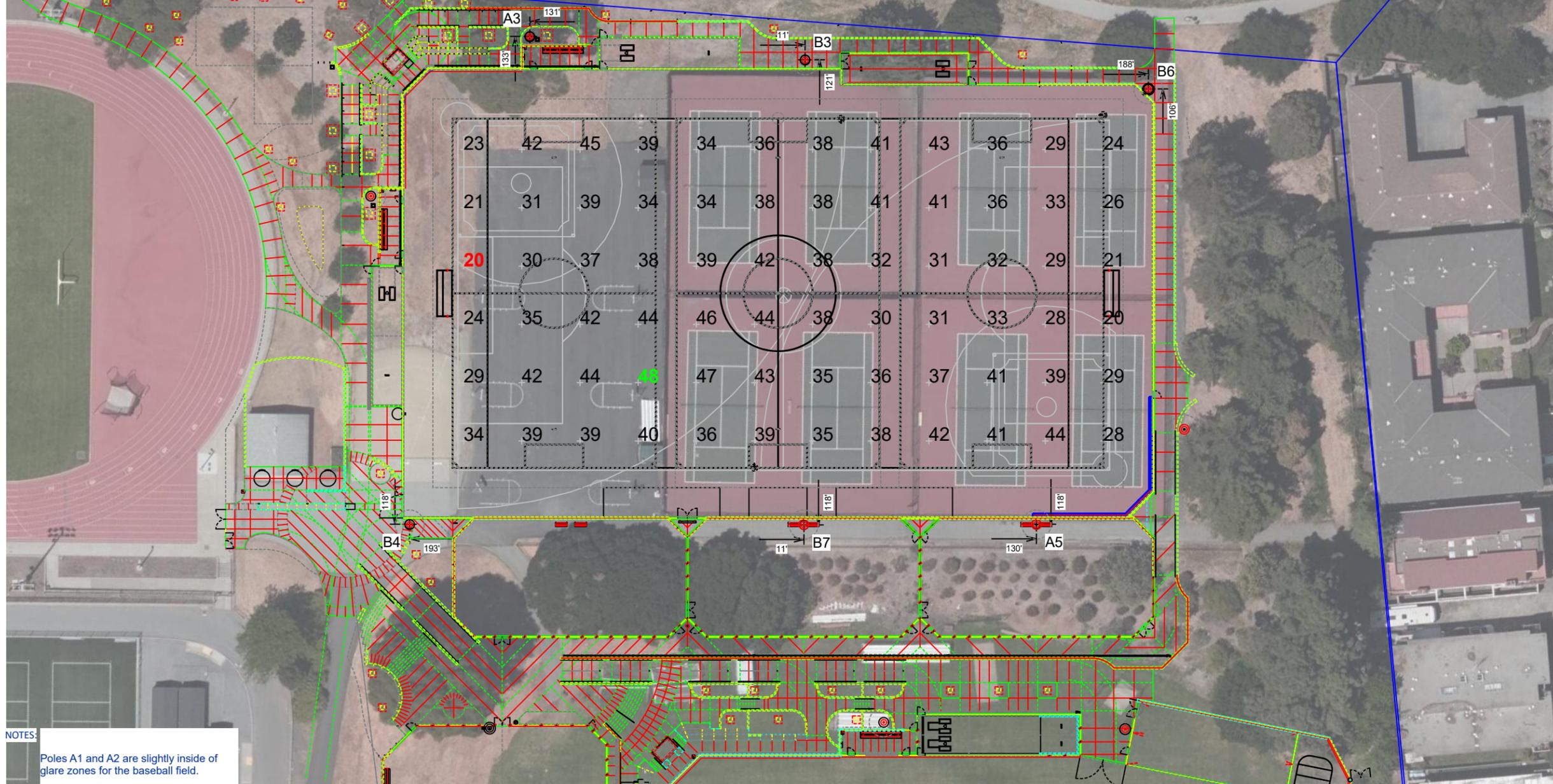


Pole location(s) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗

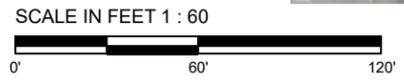


EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	0	2	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A5	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				70.43'	TLC-LED-400	1*	0	1	
1	B3	70'	.43'	20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				80.43'	TLC-LED-400	1	0	1	
1	B4	80'	.43'	15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	0	1	
1	B6	70'	.43'	70.43'	TLC-LED-1200	3	3	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	0	1	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
6	TOTALS						39	34	5

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Soccer
Size:	336' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	35.68
Maximum:	48
Minimum:	20
Avg / Min:	1.82
Guaranteed Max / Min:	2.5
Max / Min:	2.42
UG (adjacent pts):	1.81
CU:	0.63
No. of Points:	72
LUMINAIRE INFORMATION	
Applied Circuits:	C, E
No. of Luminaires:	34
Total Load:	33.63 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.



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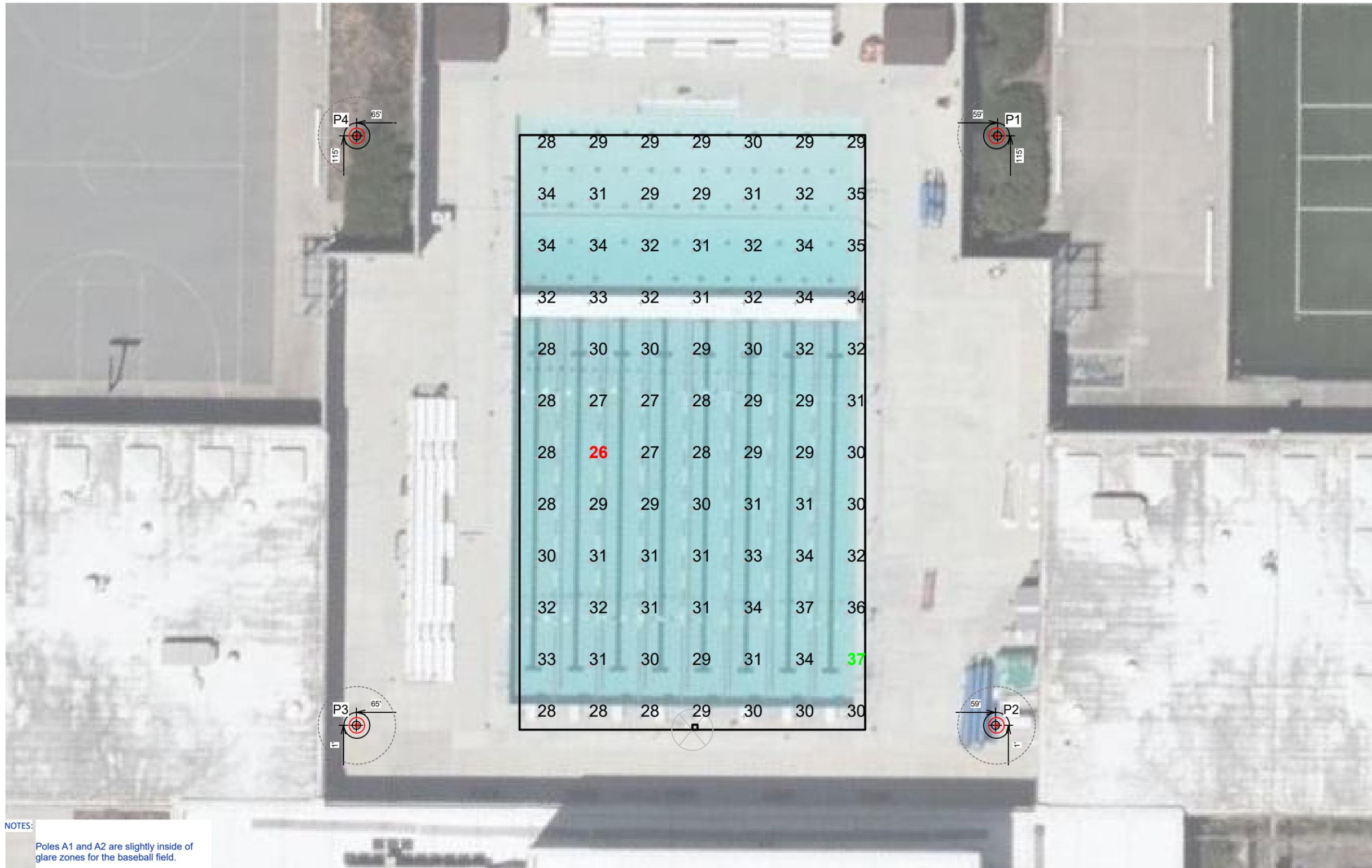
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	50'		40'	TLC-LED-400	1	0	1
				50'	TLC-LED-600	2	2	0
4	TOTALS					12	8	4

Mills High School Baseball Softball Pool
Millbrae, CA

GRID SUMMARY	
Name:	Pool
Size:	67' x 115'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	30
Scan Average:	30.79
Maximum:	37
Minimum:	26
Avg / Min:	1.17
Guaranteed Max / Min:	2.5
Max / Min:	1.40
UG (adjacent pts):	1.24
CU:	0.50
No. of Points:	84
LUMINAIRE INFORMATION	
Applied Circuits:	J
No. of Luminaires:	8
Total Load:	4.64 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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	50'		40'	TLC-LED-400	1	0	1
				50'	TLC-LED-600	2	2	0
4	TOTALS					12	8	4

Mills High School Baseball Softball Pool
Millbrae, CA

GRID SUMMARY

Name: Pool Deck
Size: 67' x 115'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: **19.95**
Maximum: 38
Minimum: 3
Avg / Min: 6.52
Max / Min: **12.29**
UG (adjacent pts): 3.18
CU: 0.44
No. of Points: 113

LUMINAIRE INFORMATION

Applied Circuits: J
No. of Luminaires: 8
Total Load: 4.64 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.



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 30



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	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
4	P1-P4	50'	0'	40'	TLC-LED-400	1	1	0	
				50'	TLC-LED-600	2	0	2	
4	TOTALS					12	4	8	

Mills High School Baseball Softball Pool
Millbrae, CA

GRID SUMMARY	
Name:	Pool Deck - Egress
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	7.83
Maximum:	16
Minimum:	1
Avg / Min:	13.08
Max / Min:	26.97
UG (adjacent pts):	4.53
CU:	0.52
No. of Points:	113
LUMINAIRE INFORMATION	
Applied Circuits:	K
No. of Luminaires:	4
Total Load:	1.6 kW



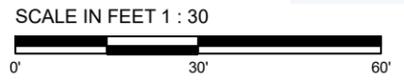
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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



EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	50'	0'	40'	TLC-LED-400	1	1	0
				50'	TLC-LED-600	2	0	2
4	TOTALS					12	4	8

GRID SUMMARY	
Name:	Pool Bleacher 1 - Egress
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

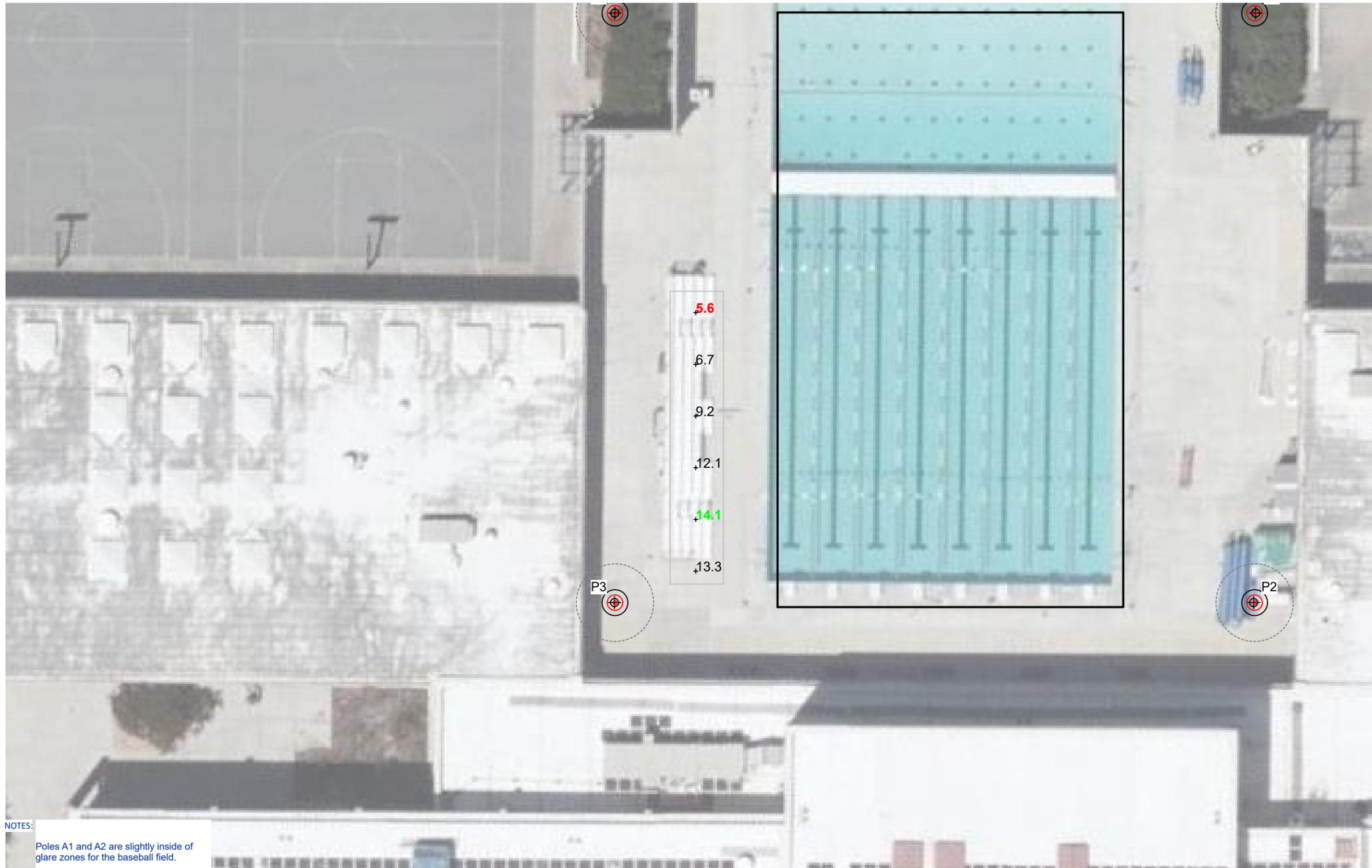
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	10.16
Maximum:	14
Minimum:	6
Avg / Min:	1.82
Max / Min:	2.52
UG (adjacent pts):	1.37
CU:	0.04
No. of Points:	6
LUMINAIRE INFORMATION	
Applied Circuits:	K
No. of Luminaires:	4
Total Load:	1.6 kW

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.



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	50'	0'	40'	TLC-LED-400	1	1	0
				50'	TLC-LED-600	2	0	2
4	TOTALS					12	4	8

Mills High School Baseball Softball Pool
Millbrae, CA

GRID SUMMARY	
Name:	Pool Bleacher 2 - Egress
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	4.88
Maximum:	6
Minimum:	4
Avg / Min:	1.29
Max / Min:	1.58
UG (adjacent pts):	1.31
CU:	0.02
No. of Points:	6
LUMINAIRE INFORMATION	
Applied Circuits:	K
No. of Luminaires:	4
Total Load:	1.6 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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 20



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

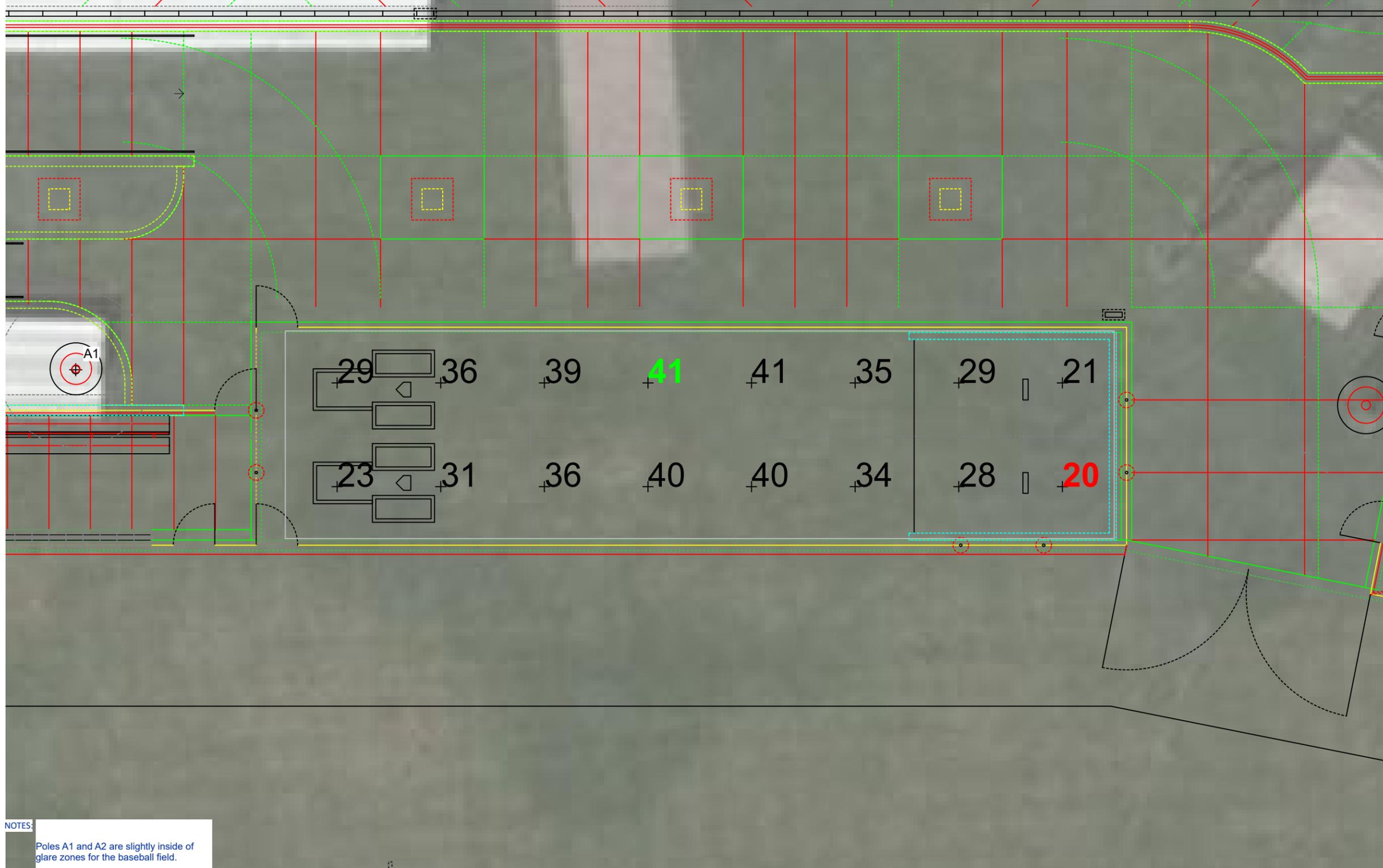


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EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID / OTHER GRIDS
1	A1	80'	0'	80'	TLC-LED-400	2*	0 / 2
				15.48'	TLC-BT-575	1	0 / 1
				50'	TLC-LED-1200	2	2 / 0
				80'	TLC-LED-1200	4	0 / 4
1	TOTALS					9	2 / 7

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



GRID SUMMARY	
Name:	erasedBaseball Batting Cage
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	32.78
Scan Average:	32.78
Maximum:	41
Minimum:	20
Avg / Min:	1.61
Max / Min:	2.03
UG (adjacent pts):	1.39
CU:	0.30
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	2
Total Load:	2.34 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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	0'	80'	TLC-LED-400	2*	2	0	0
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-1200	2	0	2	
				80'	TLC-LED-1200	4	0	4	
1	A2	80'	0'	80'	TLC-LED-400	2*	2	0	0
				15.48'	TLC-BT-575	1	0	1	
				80'	TLC-LED-1200	4	0	4	
				60'	TLC-LED-400	2*	2	0	
1	A3	60'	0'	60'	TLC-LED-400	2*	2	0	0
				15.5'	TLC-BT-575	1	0	1	
				50'	TLC-LED-600	1	0	1	
				60'	TLC-LED-900	3	0	3	
1	A4	60'	0'	60'	TLC-LED-900	2	0	2	0
				60'	TLC-LED-400	2*	2	0	
				15.5'	TLC-BT-575	1	0	1	
				50'	TLC-LED-1200	1	0	1	
				60'	TLC-LED-1200	1	0	1	
				90'	TLC-LED-900	2	0	2	
1	B1	90'	0'	90'	TLC-LED-900	2	0	2	0
				90'	TLC-LED-400	1*	1	0	
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-900	1	0	1	
				90'	TLC-LED-1500	4	0	4	
				90'	TLC-LED-1500	4	0	4	
1	B2	90'	0'	90'	TLC-LED-1500	4	0	4	0
				90'	TLC-LED-400	1*	1	0	
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-900	1	0	1	
				90'	TLC-LED-900	2	0	2	
				70'	TLC-LED-400	1*	1	0	
1	B3	70'	0'	70'	TLC-LED-400	1*	1	0	0
				20'	TLC-BT-575	1	0	1	
				50'	TLC-LED-600	1	0	1	
				70'	TLC-LED-1200	6	0	6	
1	B4	80'	0'	80'	TLC-LED-400	1	1	0	0
				15.5'	TLC-BT-575	1	0	1	
				80'	TLC-LED-1200	5	0	5	
1	B6	70'	0'	15.5'	TLC-BT-575	1	0	1	0
				60'	TLC-LED-600	1	1	0	
				70'	TLC-LED-1200	3	0	3	
9	TOTALS					69	13	56	

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



GRID SUMMARY	
Name:	Lower Egress Pathway
Spacing:	20.0' x 20.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	3.44
Maximum:	6
Minimum:	1
Avg / Min:	3.36
Max / Min:	5.94
UG (adjacent pts):	2.22
CU:	0.20
No. of Points:	89
LUMINAIRE INFORMATION	
Applied Circuits:	1
No. of Luminaires:	13
Total Load:	5.38 kW

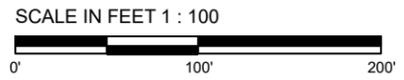
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	0'	80'	TLC-LED-400	2*	2	0	0
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-1200	2	0	2	
				80'	TLC-LED-1200	4	0	4	
1	A2	80'	0'	80'	TLC-LED-400	2*	2	0	0
				15.48'	TLC-BT-575	1	0	1	
				80'	TLC-LED-1200	4	0	4	
				60'	TLC-LED-400	2*	2	0	0
1	A3	60'	0'	60'	TLC-LED-400	2*	2	0	0
				15.5'	TLC-BT-575	1	0	1	
				50'	TLC-LED-600	1	0	1	
				60'	TLC-LED-900	3	0	3	
1	A4	60'	0'	60'	TLC-LED-900	2	0	2	0
				60'	TLC-LED-400	2*	2	0	0
				15.5'	TLC-BT-575	1	0	1	
				50'	TLC-LED-1200	1	0	1	
				60'	TLC-LED-1200	1	0	1	
1	B1	90'	0'	90'	TLC-LED-900	2	0	2	0
				90'	TLC-LED-400	1*	1	0	0
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-900	1	0	1	
				90'	TLC-LED-1500	4	0	4	
1	B2	90'	0'	90'	TLC-LED-1500	4	0	4	0
				90'	TLC-LED-400	1*	1	0	0
				15.48'	TLC-BT-575	1	0	1	
				50'	TLC-LED-900	1	0	1	
				90'	TLC-LED-900	2	0	2	
1	B3	70'	0'	70'	TLC-LED-400	1*	1	0	0
				20'	TLC-BT-575	1	0	1	
				50'	TLC-LED-600	1	0	1	
				70'	TLC-LED-1200	6	0	6	
1	B4	80'	0'	80'	TLC-LED-400	1	1	0	0
				15.5'	TLC-BT-575	1	0	1	
				60'	TLC-LED-600	1	1	0	0
				70'	TLC-LED-1200	3	0	3	
TOTALS						69	13	56	

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



GRID SUMMARY	
Name:	Upper Pathway Egress
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	5.64
Maximum:	15
Minimum:	1
Avg / Min:	6.70
Max / Min:	18.12
UG (adjacent pts):	4.36
CU:	0.28
No. of Points:	76
LUMINAIRE INFORMATION	
Applied Circuits:	1
No. of Luminaires:	13
Total Load:	5.38 kW

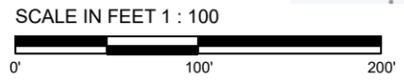
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

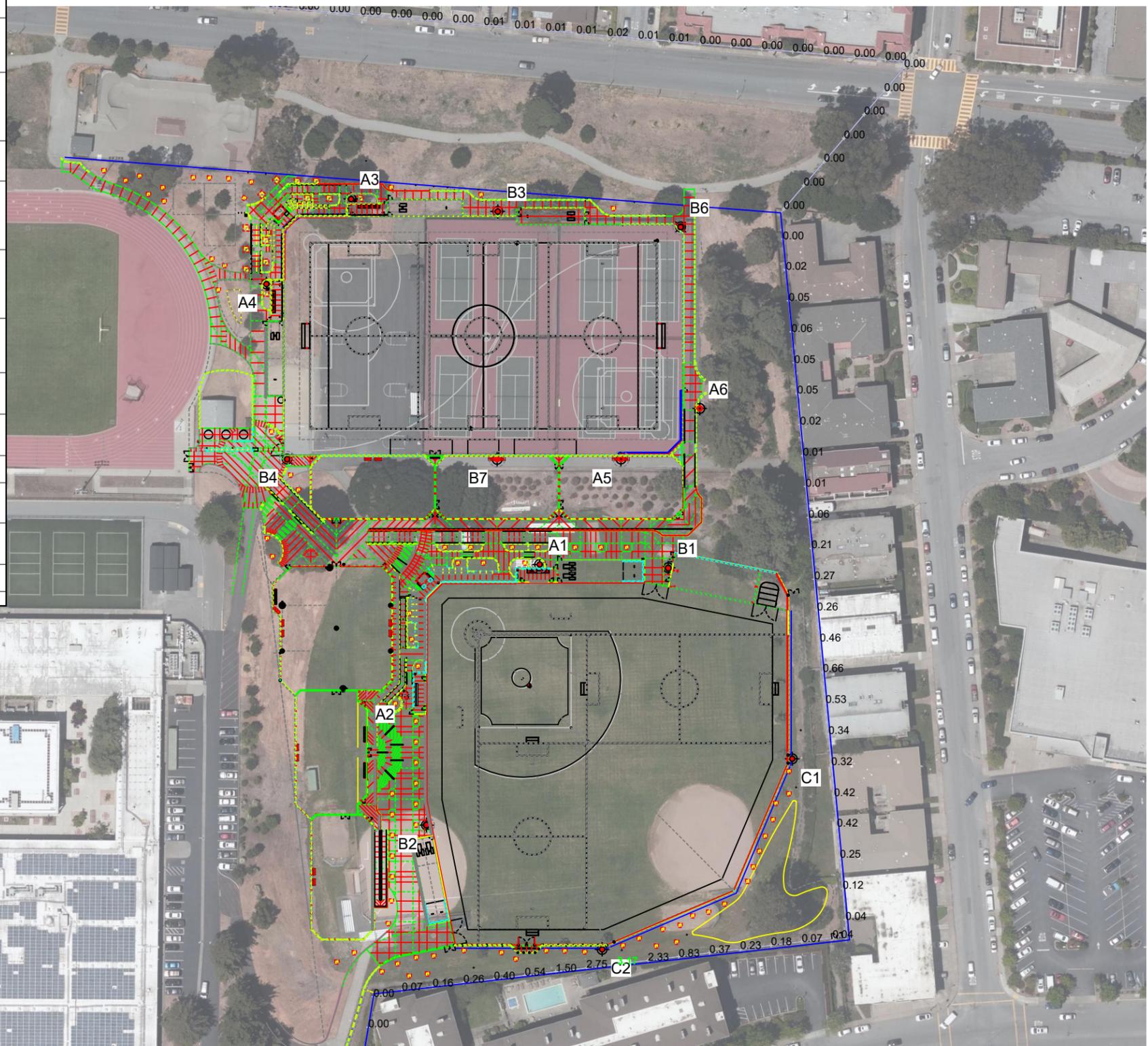
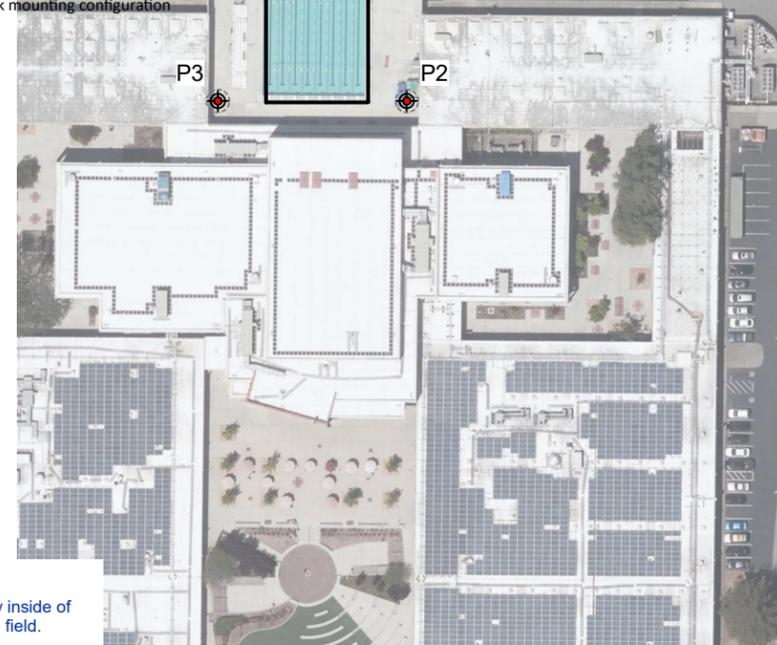


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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
				60.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-1500	4	4	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-900	2	2	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-600	2	2	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS					112	112	0	

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



GRID SUMMARY	
Name:	Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.2024
Maximum:	3.17
Minimum:	0.00
No. of Points:	87
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, I, J, K
No. of Luminaires:	112
Total Load:	99.39 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.

NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



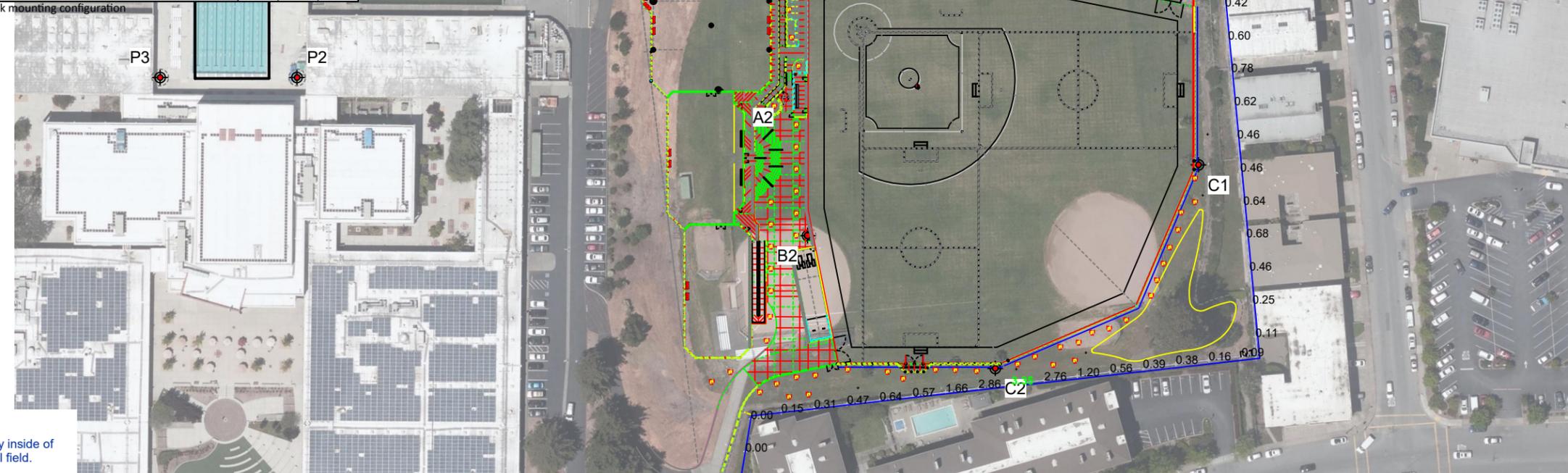
Pole location(s) ⚡ dimensions are relative to 0,0 reference point(s) ⊗



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
				60.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-1500	4	4	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-600	2	2	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS					112	112	0	

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



NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 120



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

GRID SUMMARY	
Name:	Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.2667
Maximum:	3.35
Minimum:	0.00
No. of Points:	87
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, I, J, K
No. of Luminaires:	112
Total Load:	99.39 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.



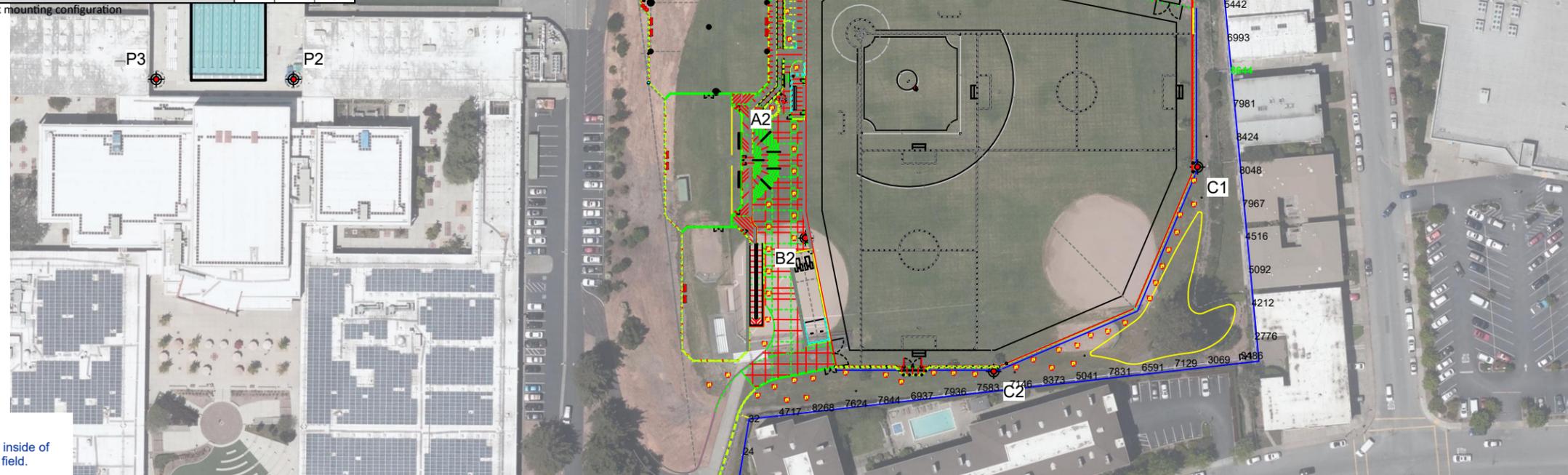
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
				60.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-1500	4	4	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-900	2	2	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-600	2	2	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS					112	112	0	

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



NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 120



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

GRID SUMMARY	
Name:	Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 2780.1143
Maximum:	8643.89
Minimum:	0.00
No. of Points:	87
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, I, J, K
No. of Luminaires:	112
Total Load:	99.39 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.

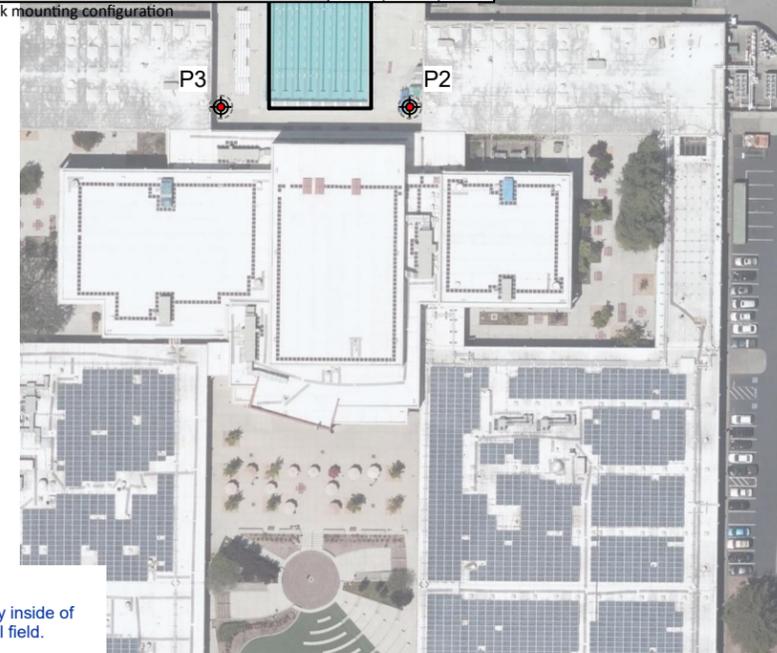


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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
				60.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-1500	4	4	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-400	1	1	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS					112	112	0	

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



NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 120



ENGINEERED DESIGN By: H.Sabers · File #201284N · 06-Apr-21



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

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.4' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 5.1499
Maximum:	47.00
Minimum:	0.00
No. of Points:	66
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, I, J, K
No. of Luminaires:	112
Total Load:	99.39 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.

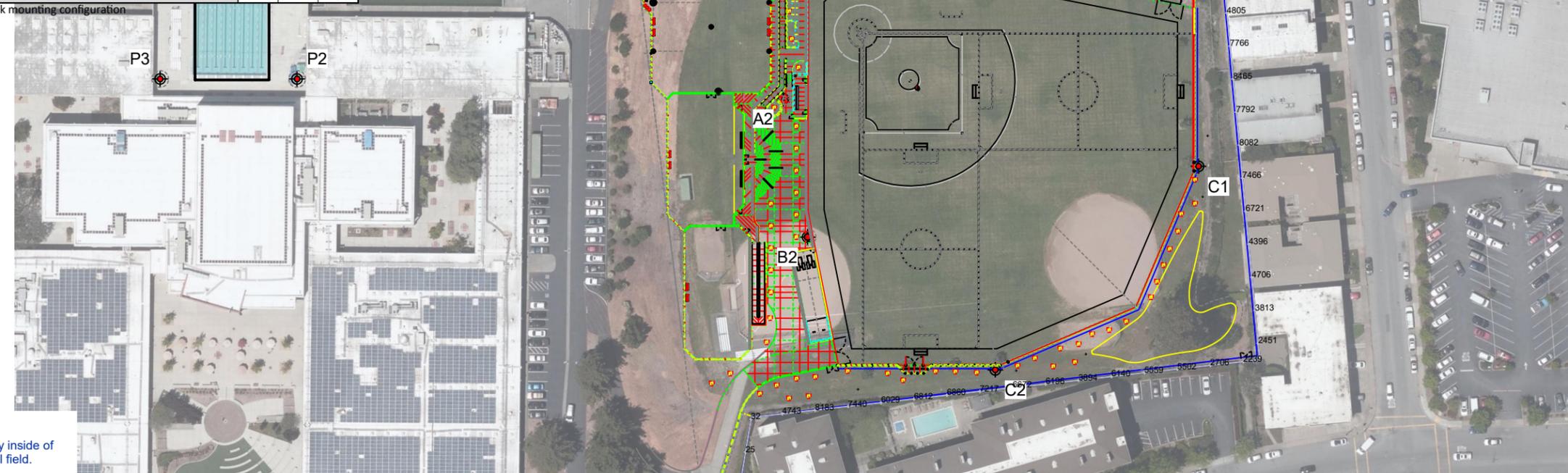


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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
				60.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-1500	4	4	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
				90.41'	TLC-LED-900	2	2	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-600	2	2	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS					112	112	0	

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



NOTES:
Poles A1 and A2 are slightly inside of glare zones for the baseball field.



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

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.4' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 34412.8750
Maximum:	244870.83
Minimum:	8.10
No. of Points:	66
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, I, J, K
No. of Luminaires:	112
Total Load:	99.39 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.

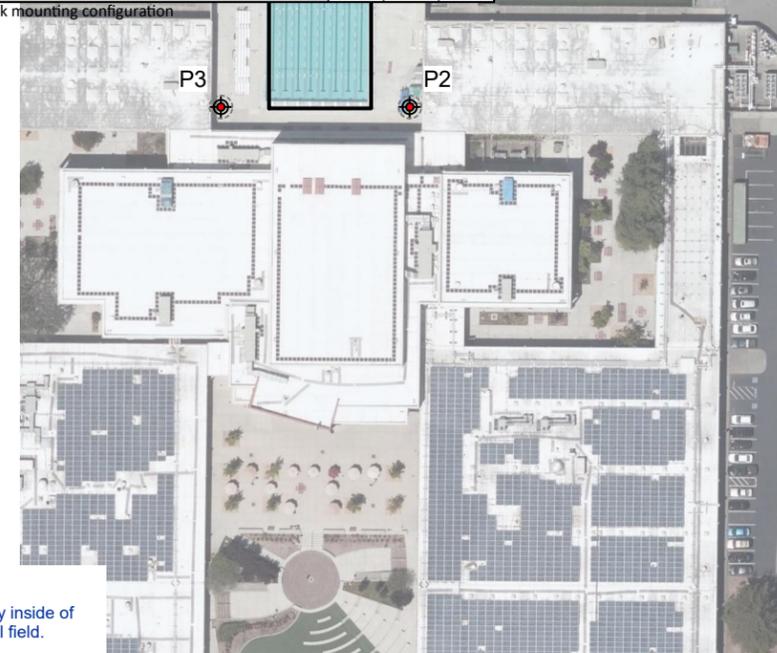


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EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires							
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-1200	2	2	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A2	80'	.41'	80.41'	TLC-LED-400	2*	2	0	
				15.91'	TLC-BT-575	1	1	0	
				80.41'	TLC-LED-1200	4	4	0	
				80.41'	TLC-LED-1200	4	4	0	
1	A3	60'	.43'	60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				60.43'	TLC-LED-900	3	3	0	
1	A4	60'	.43'	60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-400	2*	2	0	
				15.93'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-1200	1	1	0	
2	A5-A6	60'	.43'	60.43'	TLC-LED-1200	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-900	2	2	0	
				60.43'	TLC-LED-900	2	2	0	
1	B1	90'	.41'	90.41'	TLC-LED-900	2	2	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
1	B2	90'	.41'	90.41'	TLC-LED-1500	4	4	0	
				90.41'	TLC-LED-400	1*	1	0	
				15.91'	TLC-BT-575	1	1	0	
				50.41'	TLC-LED-900	1	1	0	
1	B3	70'	.43'	70.43'	TLC-LED-400	1*	1	0	
				20.43'	TLC-BT-575	1	1	0	
				50.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
1	B4	80'	.43'	80.43'	TLC-LED-400	1	1	0	
				15.93'	TLC-BT-575	1	1	0	
				80.43'	TLC-LED-1200	5	5	0	
				80.43'	TLC-LED-1200	5	5	0	
1	B6	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				60.43'	TLC-LED-600	1	1	0	
				70.43'	TLC-LED-1200	3	3	0	
				70.43'	TLC-LED-1200	3	3	0	
1	B7	70'	.43'	15.93'	TLC-BT-575	1	1	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
				70.43'	TLC-LED-1200	6	6	0	
1	C1	70'	.41'	70.41'	TLC-LED-900	2	2	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-1500	3	3	0	
				70.41'	TLC-LED-1500	3	3	0	
1	C2	70'	.41'	70.41'	TLC-LED-1500	1	1	0	
				15.91'	TLC-BT-575	2	2	0	
				70.41'	TLC-LED-900	6	6	0	
				70.41'	TLC-LED-900	6	6	0	
4	P1-P4	50'	.41'	40.41'	TLC-LED-400	1	1	0	
				40.41'	TLC-LED-400	1	1	0	
				50.41'	TLC-LED-600	2	2	0	
				50.41'	TLC-LED-600	2	2	0	
18	TOTALS						112	112	0

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



NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.

SCALE IN FEET 1 : 120



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

GRID SUMMARY

Name: Property Line Spill
Spacing: 30.0'
Height: 3.4' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

Scan Average: Entire Grid
Maximum: 3.4302
Minimum: 30.41
No. of Points: 66

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, I, J, K
No. of Luminaires: 112
Total Load: 99.39 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.



We Make It Happen.

NOTES:

Poles A1 and A2 are slightly inside of glare zones for the baseball field.



SCALE IN FEET 1 : 120



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

Mills High School Baseball Softball Pool
Millbrae, CA

EQUIPMENT LAYOUT

INCLUDES:

- Baseball
- Pool
- Soccer
- Softball 1
- Softball 2

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

QTY	LOCATION	Pole		Luminaires		QTY / POLE
		CLASS	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
1	A1	LSS80A	-	80'	TLC-LED-400	2*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-1200	2
				80'	TLC-LED-1200	4
1	A2	LSS80A	-	80'	TLC-LED-400	2*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-1200	2
				80'	TLC-LED-1200	4
1	A3	LSS60B	-	60'	TLC-LED-400	2*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-600	1
				60'	TLC-LED-900	3
1	A4	LSS60B	-	60'	TLC-LED-900	2
				60'	TLC-LED-400	2*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-1200	1
1	A5	LSS60A	-	60'	TLC-LED-1200	1
				15.5'	TLC-BT-575	1
				60'	TLC-LED-900	2
				60'	TLC-LED-900	2
1	A6	LSS60A	0'	60'	TLC-LED-1200	1
				15.5'	TLC-BT-575	1
				60'	TLC-LED-900	2
				60'	TLC-LED-900	2
1	B1	LSS90A	-	90'	TLC-LED-900	2
				15.5'	TLC-LED-400	1*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-900	1
1	B2	LSS90A	-	90'	TLC-LED-1500	4
				90'	TLC-LED-400	1*
				15.5'	TLC-BT-575	1
				50'	TLC-LED-900	1
1	B3	LSS70C	-	70'	TLC-LED-400	1*
				20'	TLC-BT-575	1
				50'	TLC-LED-600	1
				70'	TLC-LED-1200	6
1	B4	LSS80B	-	80'	TLC-LED-400	1
				15.5'	TLC-BT-575	1
				80'	TLC-LED-1200	5
				80'	TLC-LED-1200	5
1	B6	LSS70C	-	15.5'	TLC-BT-575	1
				60'	TLC-LED-600	1
				70'	TLC-LED-1200	3
				70'	TLC-LED-1200	3
1	B7	LSS70C	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-1200	6
				70'	TLC-LED-1200	6
				70'	TLC-LED-1200	6
1	C1	LSS70C	-	70'	TLC-LED-900	2
				15.5'	TLC-BT-575	2
				70'	TLC-LED-1500	3
				70'	TLC-LED-1500	3
1	C2	LSS70D	-	70'	TLC-LED-1500	1
				15.5'	TLC-BT-575	2
				70'	TLC-LED-900	6
				70'	TLC-LED-900	6
4	P1-P4	LSS50B	-	40'	TLC-LED-400	1
				50'	TLC-LED-600	2
18	TOTALS					112

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

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-1200	7.0	6.6	6.2	5.7	4.2	3.0
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3
TLC-LED-900	6.6	6.2	5.7	5.2	3.2	2.9
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8

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EQUIPMENT LAYOUT

Attachment B – Revised Mitigation Monitoring and Reporting Plan

MITIGATION MONITORING AND REPORTING PROGRAM – MILLS HIGH SCHOOL ATHLETICS FIELDS PROJECT

When adopting a Mitigated Negative Declaration, the CEQA Guidelines [Section 15074(d)] require that Lead Agencies adopt a program for reporting on or monitoring the changes that it has required in the project or made a condition of approval to mitigate or avoid significant environmental effects.

This monitoring program for mitigation measures identified by the Mitigated Negative Declaration includes:

1. A list of mitigation measures with a space for the completion date,
2. The full text of the mitigation measures, and
3. Monitoring details, including: 1) agency responsible for implementation, 2) timing of implementation and monitoring, and 3) monitoring verification.

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date

<i>BIOLOGICAL RESOURCES</i>						
Loss of active protected bird and bat nests	<p>Measure BIO-1: Prevent Loss of Active Bird Nests. A pre-construction survey for nesting birds shall be conducted by a qualified biologist within two weeks of construction activities, if activities are to occur within nesting/breeding season of native bird species (February- August). If active nests are identified within 300 feet of construction, and would be exposed to prolonged construction-related noise above normal levels, a buffer shall be implemented around nests during the breeding season, or until a biologist determines the young have fledged. The size of the buffer and the type of construction activity will depend on multiple factors including relative change in noise and disturbance during construction activity, amount of vegetative screening between activity and nest, and sensitivity of species.</p> <p>Measure BIO-2: Prevent Loss of Roosting Habitat for Bat Species. The potential of the large trees to provide suitable roosting habitat shall be assessed by a qualified bat biologist, and if necessary, a roosting bat protection plan shall be implemented. If bats are determined to be using the site, minimization measures shall include prohibiting night work activities (between 10pm and sunrise), and minimizing work activities to outside of</p>	SMUHSD Construction contractor	SMUHSD Project Manager/Consulting Biologist	Condition of construction contract; field verify implementation prior to start of construction		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date

	the most sensitive breeding (non-volant) period of April to August					
<i>CULTURAL RESOURCES</i>						
Potential impacts to archaeological deposits and human remains	<p><i>Mitigation Measure CULT-1: Archaeological Deposits.</i> If archaeological remains are encountered during project activities, project ground disturbances at the find and immediate vicinity shall be halted immediately until a qualified archaeologist can evaluate the finds (§15064.5 [f]). The archaeologist shall examine the finds and recommend mitigation measures which may include documentation in place, avoidance, testing, and/or data recovery. Project personnel should not collect cultural resources. Native American resources include chert or obsidian flakes, projectile points, mortars, and pestles; and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic-period resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, often located in old wells or privies.</p> <p><i>Mitigation Measure CULT-2: Human Remains.</i> California law recognizes the need to protect interred human remains,</p>	SMUHSD Project Manager	SMUHSD Project Manager	Construction contractors shall monitor during ground disturbing activities; if cultural resources are encountered, archaeologist and NAHC, as applicable, shall determine appropriate treatment for the resources.		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date
	<p>particularly Native American burials and associated items of patrimony, from vandalism and inadvertent destruction. The procedures for the treatment of discovered human remains are contained in California Health and Safety Code Section 7050.5 and Section 7052 and California Public Resources Code Section 5097.</p> <p>In accordance with the California Health and Safety Code, if human remains are uncovered during ground disturbing activities all such activities in the vicinity of the find shall be halted immediately and the District or the District's designated representative shall be notified. The District shall immediately notify the county coroner and a qualified professional archaeologist. The coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code Section 7050.5[b]). If the coroner determines that the remains are those of a Native American, he or she must contact the Native American Heritage</p>					

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date
	Commission (NAHC) by phone within 24 hours of making that determination (Health and Safety Code Section 7050[c]). The responsibilities of the District for acting upon notification of a discovery of Native American human remains are identified in detail in the California Public Resources Code Section 5097.9. The District or their appointed representative and the professional archaeologist will consult with a Most Likely Descendent determined by the NAHC regarding the removal or preservation and avoidance of the remains and determine if additional burials could be present in the vicinity.					
<i>GEOLOGIC HAZARDS</i>						
Geotechnical Hazards	Mitigation Measure GEO-1. The project's site clearing, site preparation, subgrade preparation and stabilization, fill, drainage, and any foundation systems shall be designed and constructed per the specifications set forth on the project geotechnical report.	SMUHSD Project Manager	SMUHSD/ Project geotechnical engineer	Prior to submittal of final design plans to Division of the State Architect		
Drainage, Erosion., Sedimentation	Mitigation Measure GEO-2. The project shall include a site drainage system to collect surface water and discharging it into an established storm drainage system.	SMUHSD Project Manager	SMUHSD/ Project civil engineer	Prior to submittal of final design plans to Division of the State Architect		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date
	The project Civil Engineer or Architect shall be responsible for designing the site drainage system and, an erosion control plan could be developed prior to construction per the current guidelines of the California Stormwater Quality Association's Best Management Practice Handbook.					
<i>HYDROLOGY AND WATER QUALITY</i>						
Impacts on Water Quality.	<p>Mitigation Measure HYD-1: Prior to the issuance of grading permits for the proposed Project, the Project engineers shall prepare a Stormwater Control Plan. The Stormwater Control Plan shall identify pollution prevention measures and practices to prevent polluted runoff from leaving the Project site.</p> <p>Mitigation Measure HYD-2: The District shall maintain in perpetuity the post-construction BMPs listed in the Stormwater Operations and Management Plan. The owner shall make changes or modifications to the BMPs to ensure peak performance. The owner shall be responsible for costs incurred in operating, maintaining, repairing, and replacing the BMPs. The owner shall conduct inspection and maintenance activities and complete annual reports.</p>	SMUHSD Project Manager	SMUHSD Project Manager/ Project Civil Engineer	Prior to submittal of final design plans to Division of the State Architect		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date

<i>NOISE</i>						
Construction Noise	<p><i>Mitigation Measure NOISE-1:</i> In order to minimize disruption and potential annoyance during construction, the following shall be implemented during construction:</p> <ul style="list-style-type: none"> • Construction activities for the project should be limited to the City's construction hours of Monday through Friday between 7:30 a.m. to 7:00 p.m., Saturday 8:00 a.m. to 6:00 p.m., and Sundays and holidays 9:00 a.m. to 6:00 p.m., unless otherwise authorized by the city. • All construction equipment shall be equipped with mufflers and sound control devices (e.g., intake silencers and noise shrouds) that are in good condition and appropriate for the equipment. • Maintain all construction equipment to minimize noise emissions. • Stationary equipment shall be located on the site so as to maintain the greatest possible distance to the sensitive receptors. • Unnecessary idling of internal 	SMUHSD Project Manager	Construction Manager	Include in construction contracts. Implement during construction.		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date
	<p>combustion engines should be strictly prohibited.</p> <ul style="list-style-type: none"> Neighbors located adjacent to the construction site shall be notified of the construction schedule in writing. The construction contractor shall provide the name and telephone number an on-site construction liaison. In the event that construction noise is intrusive to the community, the construction liaison shall investigate the source of the noise and require that reasonable measures be implemented to correct the problem. 					
Baseball Field Public Address System Noise	<p><i>Mitigation Measure NOISE-2:</i> The new baseball PA system shall be designed and operated to not exceed a L_{max} of 58 dBA at locations LT-1 and ST-1. This will require distributing highly directional and carefully aimed loudspeakers around the bleachers and field. The distance between the loudspeakers and the coverage area shall be minimized to reduce spill to the community. In addition, the PA system output volume shall be regulated by an audio processor with the ability to limit the audio output levels (e.g. compressor/limiter).</p>	SMUHSD Project Manager	SMUHSD Project Manager/ Acoustical Engineers	Design prior to installation of the PA system; Field verify and adjust after system installation, during testing.		

Identified Impact	Related Mitigation Measure	MONITORING			VERIFICATION	
		Implementation Entity	Monitoring and Verification Entity	Timing Requirements	Signature	Date