Appendix

Appendix E Lighting Plans for San Bernardino High School

Appendix

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San Bernardino High School Athletic Fields

San Bernardino,CA

Lighting System

Pole / Fixture	Summary					
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	80'	80'	4	TLC-LED-1200	4.68 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
A3-A4	70'	70'	1	TLC-LED-1200	1.17 kW	D
		70'	2	TLC-LED-900	1.78 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
B1-B2	90'	90'	8	TLC-LED-1500	11.44 kW	Α
		16'	1	TLC-BT-575	0.58 kW	А
B3-B4	70'	70'	5	TLC-LED-1500	7.15 kW	D
		70'	3	TLC-LED-1500	4.29 kW	I
		16'	2	TLC-BT-575	1.15 kW	D
C1-C2, D1-D2	80'	80'	4	TLC-LED-1500	5.72 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
P1-P4	60'	60'	1	TLC-LED-1200	1.17 kW	Е
		60'	2	TLC-LED-900	1.78 kW	Е
		50'	1	TLC-LED-600	0.58 kW	F
T1	60'	60'	3	TLC-LED-1200	3.51 kW	G
T2	60'	60'	3	TLC-LED-1200	3.51 kW	G
		60'	2	TLC-LED-1200	2.34 kW	Н
		60'	1	TLC-LED-900	0.89 kW	Н
T3	60'	60'	2	TLC-LED-1200	2.34 kW	Н
		60'	1	TLC-LED-900	0.89 kW	Н
T4	60'	60'	3	TLC-LED-1200	3.51 kW	Н
T5	70'	70'	4	TLC-LED-1200	4.68 kW	G
		70'	3	TLC-LED-1200	3.51 kW	Н
T6	70'	70'	3	TLC-LED-1200	3.51 kW	G
22			117		134.76 kW	

Circuit Summary							
Circuit	Description	Load	Fixture Qty				
A	Varsity Baseball	59.72 kW	48				
D	Varsity SB	23.65 kW	22				
E	Pool	11.8 kW	12				
F	Pool Egress	2.32 kW	4				
G	Tennis 1-4	15.21 kW	13				
Н	Tennis 5-8	13.48 kW	12				
I	Soccer Practice	8.58 kW	6				

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	37
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	48
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	14
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	A		Illumination	Max/Min	Ave/Min	Circuits	Fixture Qty
Diving Pool	Horizontal	Ave 58.7	Min 46	Max 67	1.43	1.28	Е	12
East Spill	Horizontal	0.09	0	0.38	1162.81		A,B,C,D,E, F,G,H	111
East Spill	Max Candela (by Fixture)	8661	1007	18889	18.77	8.60	A,B,C,D,E, F,G,H	111
East Spill	Max Vertical Illuminance Metric	0.22	0	0.86	185.39		A,B,C,D,E, F,G,H	111

From Hometown to Professional











San Bernardino High School Athletic Fields

San Bernardino,CA

Calculation Grid Summary								
Grid Name	Calculation Metric		Illumination					Fixture Qty
Cita Name		Ave	Min	Max	Max/Min	Ave/Min	Circuits	· intuit City
North Spill	Horizontal	0.15	0	0.74	0.00		A,B,C,D,E, F,G,H	111
North Spill	Max Candela (by Fixture)	8602	65.1	25239	387.50	132.07	A,B,C,D,E, F,G,H	111
North Spill	Max Vertical Illuminance Metric	0.28	0	1.23	7775.62		A,B,C,D,E, F,G,H	111
Pool Deck	Horizontal	40.1	15	67	4.47	2.67	E	12
Pool Egress	Horizontal	7.76	3	14	4.71	2.59	F	4
Soccer Practice	Horizontal Illuminance	9.83	2	30	16.87	4.92	I	6
Swimming Pool	Horizontal	55	38	68	1.76	1.45	E	12
Tennis 1-4	Horizontal Illuminance	53.3	35	64	1.81	1.52	G	13
Tennis 5-8	Horizontal Illuminance	50.5	34	63	1.84	1.48	Н	12
VBB 3rd Base Bullpen	Horizontal	20.8	15	27	1.82	1.39	А	48
Varsity Baseball (Infield)	Horizontal Illuminance	50.9	42	60	1.42	1.21	Α	48
Varsity Baseball (Outfield)	Horizontal Illuminance	33.4	21	49	2.39	1.59	А	48
Varsity Softball (Infield)	Horizontal Illuminance	55.7	45	68	1.50	1.24	C,D	22
Varsity Softball (Outfield)	Horizontal Illuminance	33.1	19	46	2.45	1.74	C,D	22

From Hometown to Professional











EQUIPMENT LIST FOR AREAS SHOWN LOCATION TLC-LED-1200 80' B1-B2 TLC-BT-575 15.5' TLC-LED-1500 TLC-LED-1500 TLC-BT-575 C1-C2 80' 80' D1-D2 15.5' TOTALS 48 48 0

SCALE IN FEET 1:60

ENGINEERED DESIGN By: · File #207898D · 03-Sep-21



San Bernardino High School Athletic Fields
San Bernardino,CA

GRID SUMMARY

Name: Varsity Baseball

No. of Luminaires: 48

Total Load: 59.72 kW

Size: Irregular 328' / 408' / 325'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY Infield Outfield **Guaranteed Average:** 33.43 Scan Average: 50.90 Maximum: 21 Minimum: Avg / Min: 1.22 1.63 Guaranteed Max / Min: 2.5 Max / Min: 1.42 2.39 1.73 UG (adjacent pts): 1.31 CU: 0.75 No. of Points: 120 25 Applied Circuits: A

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

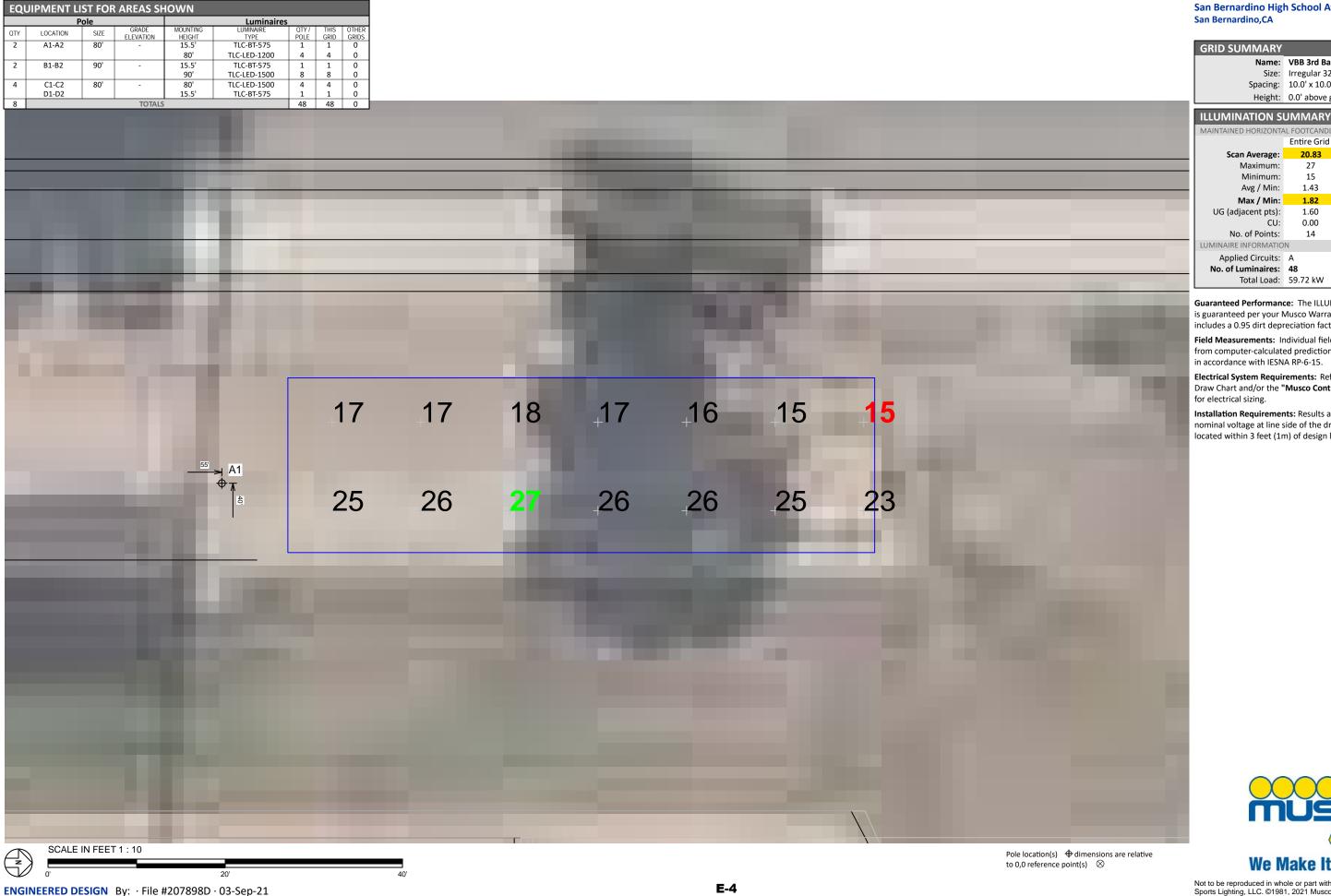
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



to 0,0 reference point(s) \otimes



San Bernardino High School Athletic Fields

Name: VBB 3rd Base Bullpen Size: Irregular 328' / 408' / 325'

Spacing: 10.0' x 10.0' Height: 0.0' above grade

MAINTAINED HORIZONTAL FOOTCANDLES Entire Grid Scan Average: Maximum: 27 15 Minimum: Avg / Min: 1.43 Max / Min: UG (adjacent pts): 1.60 CU: 0.00 No. of Points: 14 LUMINAIRE INFORMATION

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

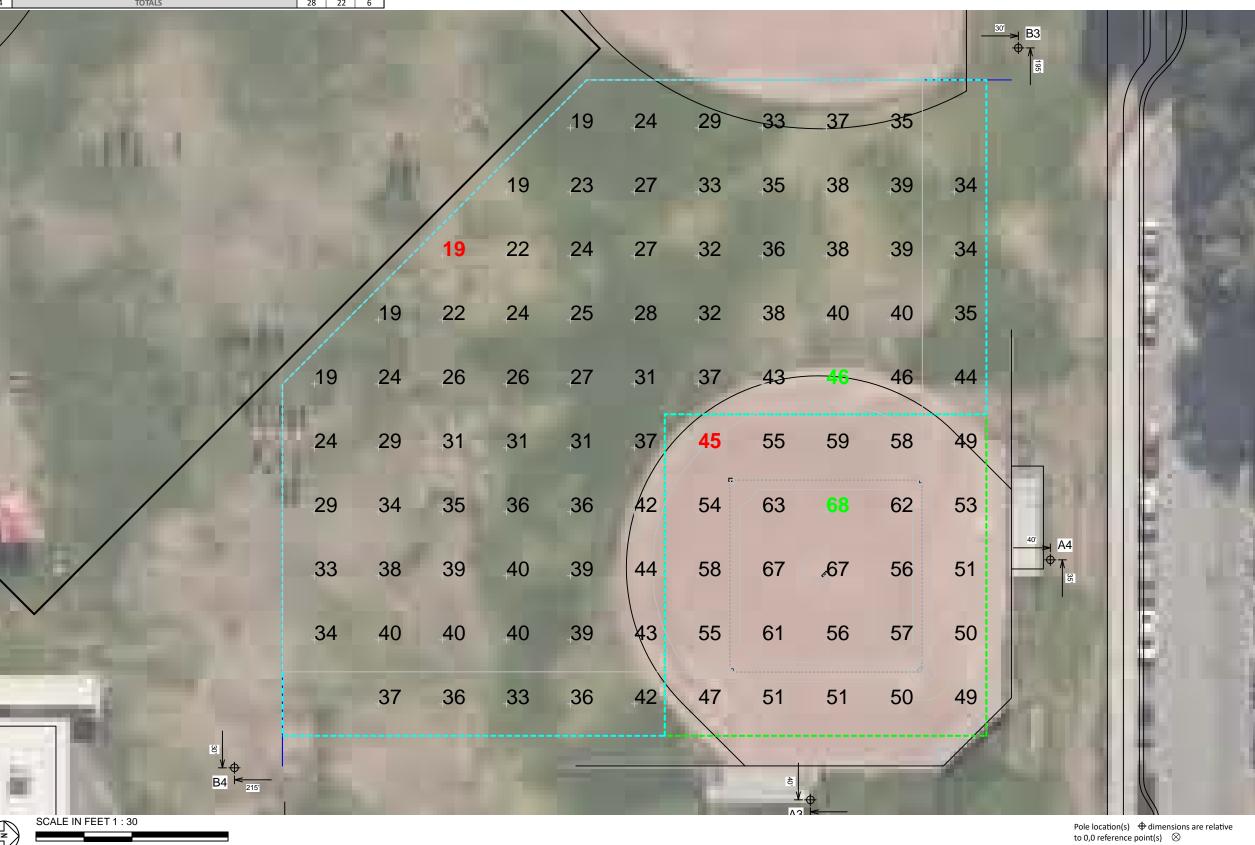
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary"

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



EQI	EQUIPMENT LIST FOR AREAS SHOWN								
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A3-A4	70'	-	70'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	1	1	0	
2	B3-B4	70'	-	15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-1500	8	5	3	
4	TOTALS					28	22	6	



San Bernardino High School Athletic Fields San Bernardino,CA

Rame:
Size:
Spacing:
Height:
Since:
Spacing:
Spa

ILLUMINATION SUMMARY						
MAINTAINED HORIZONTAL FOOTCANDLES						
	Infield	Outfield				
Guaranteed Average:	50	30				
Scan Average:	55.71	33.14				
Maximum:	68	46				
Minimum:	45	19				
Avg / Min:	1.23	1.75				
Guaranteed Max / Min:	2	2.5				
Max / Min:	1.50	2.45				
UG (adjacent pts):	1.21	1.28				
CU:	0.61					
No. of Points:	25	73				
LUMINAIRE INFORMATION						
Applied Circuits: No. of Luminaires: Total Load:	22					

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.



LOCATION TYPE TLC-LED-1200 TLC-LED-600 50' TLC-LED-900 TLC-LED-1200 P2-P3 60' 60' 50' TLC-LED-600 TLC-LED-900 TOTALS 60 58 56 61 63 64 60 56 59 64 65 **67** 55 59 65 66 65 56 60 60 63 63 55 59 60 58 54 50 55 55 52

EQUIPMENT LIST FOR AREAS SHOWN

SCALE IN FEET 1:20

ENGINEERED DESIGN By: · File #207898D · 03-Sep-21

San Bernardino High School Athletic Fields San Bernardino,CA

GRID SUMMARY

Name:
Size:
Size:
Spacing:
Height:
O.0' above grade

ILLUMINATION SUMMARY Entire Grid Guaranteed Average: Scan Average: 58.66 Maximum: 67 Minimum: Avg / Min: 1.26 Guaranteed Max / Min: Max / Min: 1.43 1.16 UG (adjacent pts): CU: 0.17 No. of Points: 35 LUMINAIRE INFORMATION Applied Circuits: E No. of Luminaires: 12 Total Load: 11.8 kW

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

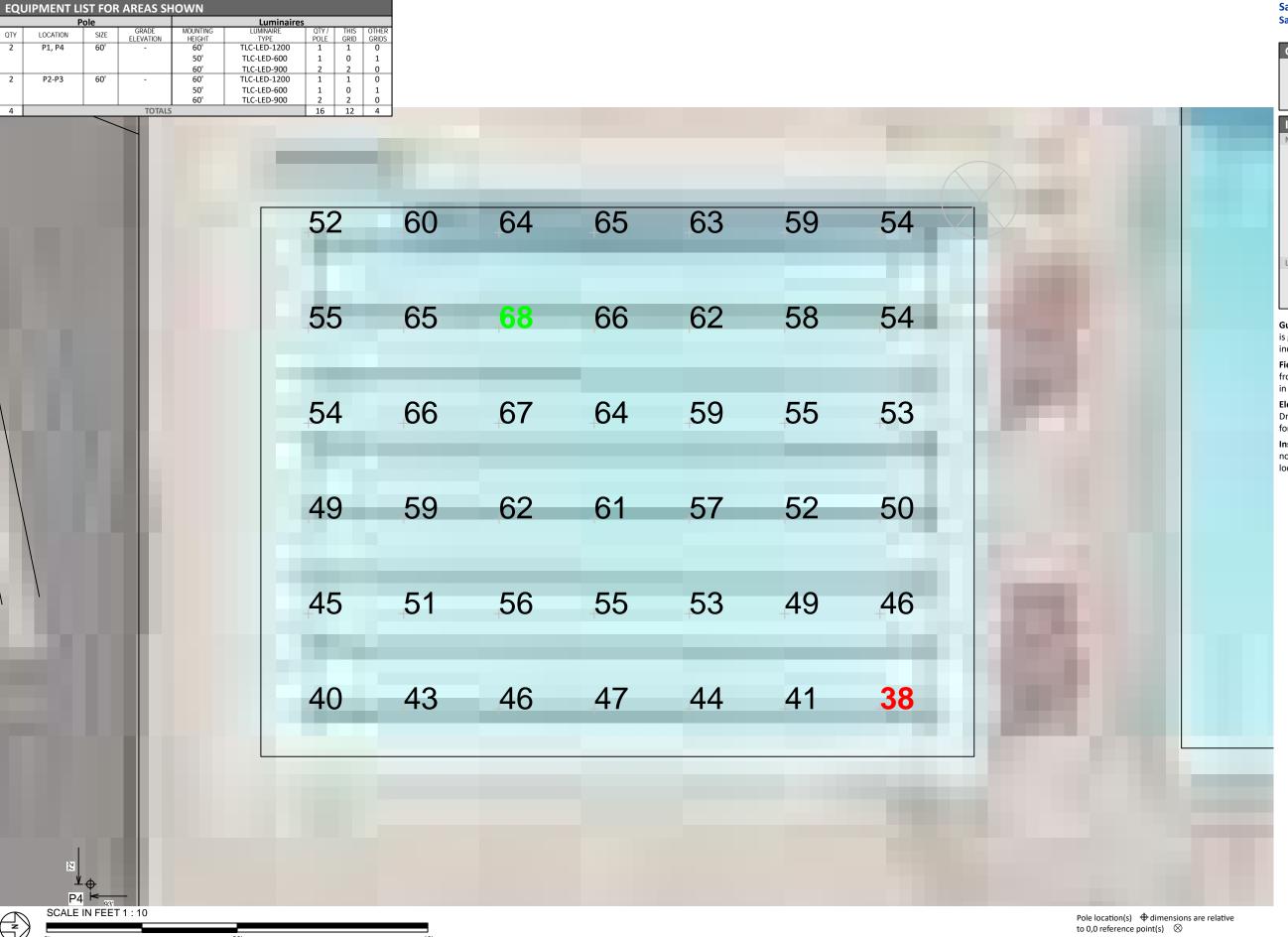
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



to 0,0 reference point(s) \otimes



San Bernardino High School Athletic Fields San Bernardino,CA

RID SUMMARY

Name: Swimming Pool
Size: 0' x 0'
Spacing: 10.0' x 10.0'
Height: 0.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: Minimum: 38 Avg / Min: 1.43 Max / Min: UG (adjacent pts): 1.22 CU: 0.19 No. of Points: 42 LUMINAIRE INFORMATION Applied Circuits: E No. of Luminaires: 12 Total Load: 11.8 kW

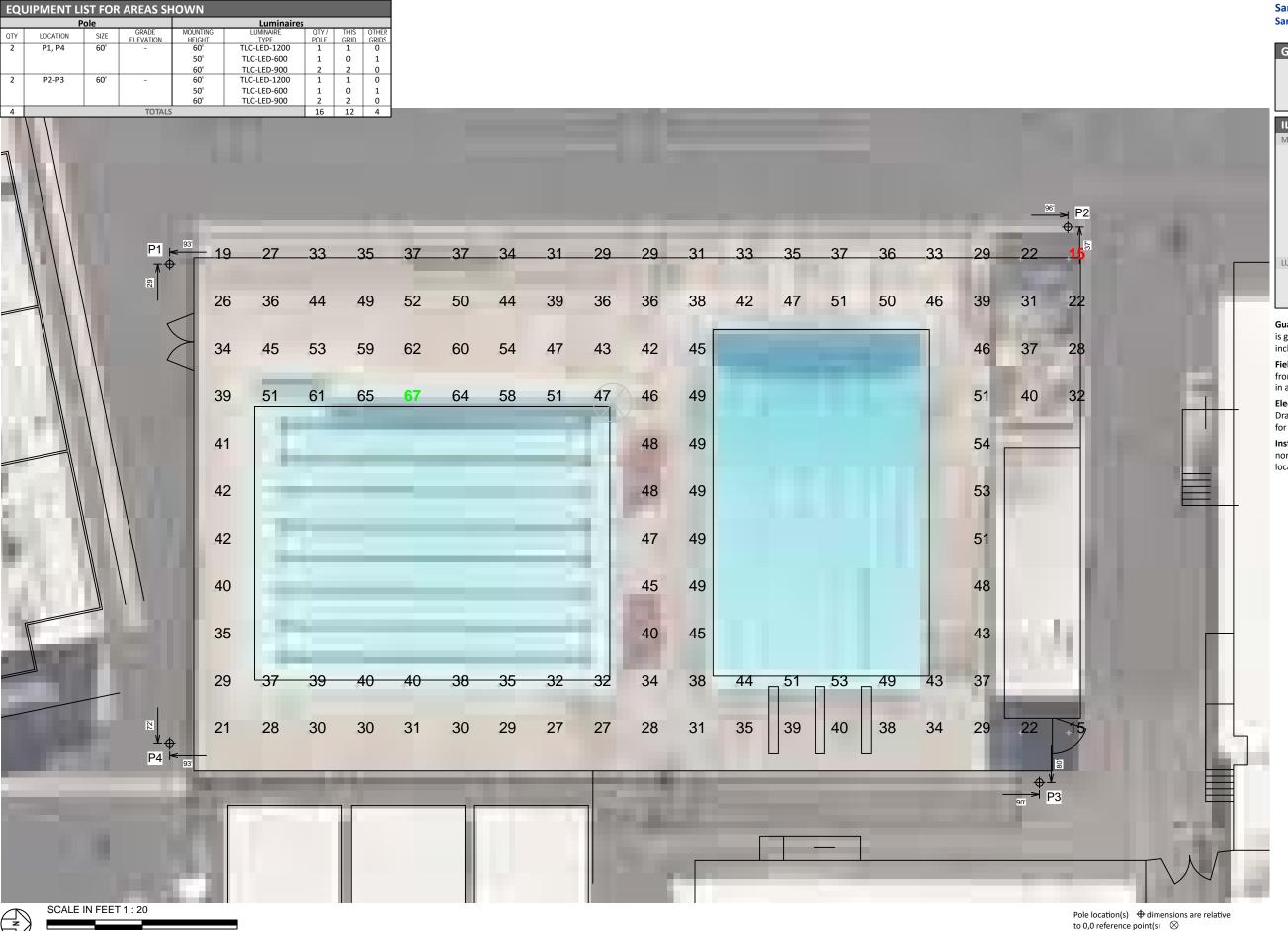
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.





San Bernardino High School Athletic Fields San Bernardino,CA

GRID SUMMARY

Name:
Size:
Spacing:
10.0' x 10.0'
10.0' x 10.0'
Height:
3.0' above grade

ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: Minimum: 15 Avg / Min: 2.68 Max / Min: UG (adjacent pts): 1.49 CU: 0.40 No. of Points: 122 LUMINAIRE INFORMATION Applied Circuits: E No. of Luminaires: 12 Total Load: 11.8 kW

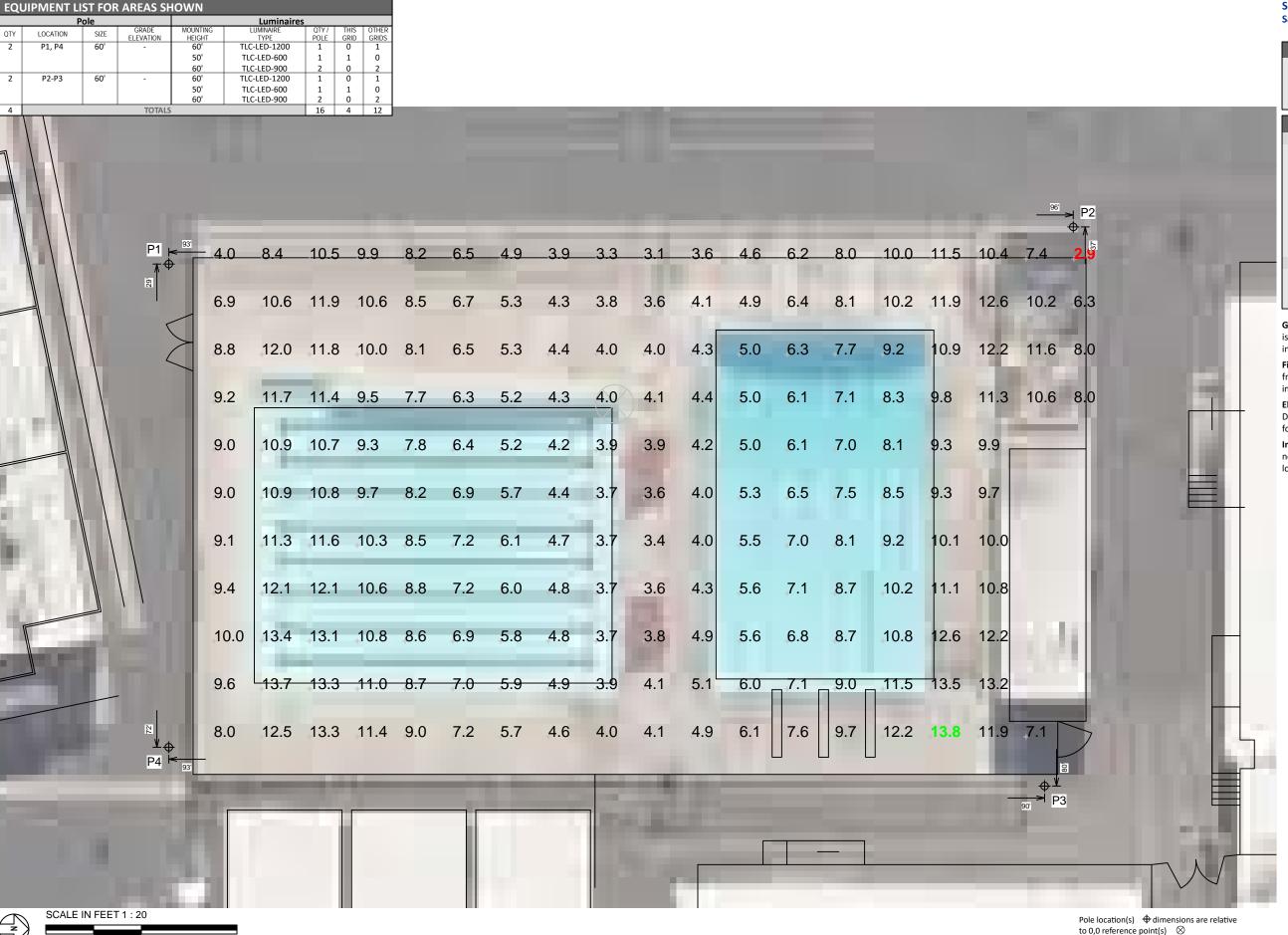
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

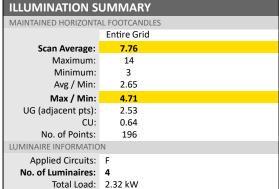
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





San Bernardino High School Athletic Fields San Bernardino,CA

Rame:
Size:
Spacing:
Height:
SRIP SPACE Spacing:
Spacing:
Holy Table Space Spa



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.



San Bernardino High School Athletic Fields San Bernardino,CA

Rame: Tennis 1-4
Size: 4 Court - 12' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Guaranteed Average: Scan Average: 53.32 Maximum: Minimum: Avg / Min: 1.51 Guaranteed Max / Min: Max / Min: 1.81 UG (adjacent pts): 0.00 CU: 0.75 No. of Points: Applied Circuits: G No. of Luminaires: 13 Total Load: 15.21 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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to 0,0 reference point(s) \otimes

LOCATION TLC-LED-1200 60' TLC-LED-900 TLC-LED-1200 TLC-LED-1200 TLC-LED-1200 4 19 12 7 48 43 42 60 53 55 49 41 39 52 62 58 47 53 62 50 48 54 59 59 52 43 51 51 53 47 42 50 50 52 46 38 49 56 50 55 53 60 42 60 53 55 54 62 60 44 43 53 60 61 57 48 49 36 45 SCALE IN FEET 1:30

EQUIPMENT LIST FOR AREAS SHOWN

ENGINEERED DESIGN By: · File #207898D · 03-Sep-21

San Bernardino High School Athletic Fields San Bernardino,CA

RID SUMMARY

Name: Tennis 5-8
Size: 4 Court - 12' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY Entire Grid Guaranteed Average: Scan Average: 50.45 Maximum: 63 Minimum: Avg / Min: 1.48 Guaranteed Max / Min: Max / Min: 1.84 0.00 UG (adjacent pts): CU: 0.82 No. of Points: 60 UMINAIRE INFORMATION Applied Circuits: H No. of Luminaires: 12 Total Load: 13.48 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 \pm 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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to 0,0 reference point(s) \otimes

EQI	EQUIPMENT LIST FOR AREAS SHOWN							
Pole Luminaires								
OTY	TY LOCATION SIZE	CITE	GRADE	MOUNTING	LUMINAIRE	QTY /	THIS	OTHER
QII		SIZE	ELEVATION	HEIGHT	TYPE	POLE	GRID	GRIDS
2	B3-B4	70'	-	15.5'	TLC-BT-575	2	0	2
				70'	TLC-LED-1500	8	3	5
2	TOTALS 20 6 14					14		



GRID SUMMARY Name: Soccer Practice Size: 250' x 150' Spacing: 30.0' x 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTA	AL FOOTCANDLES			
	Entire Grid			
Scan Average:	9.83			
Maximum:	30			
Minimum:	2			
Avg / Min:	5.52			
Max / Min:	16.87			
UG (adjacent pts):	2.26			
CU:	0.42			
No. of Points:	45			
LUMINAIRE INFORMATION				
Applied Circuits:	I			
No. of Luminaires:	6			
Total Load:	8.58 kW			

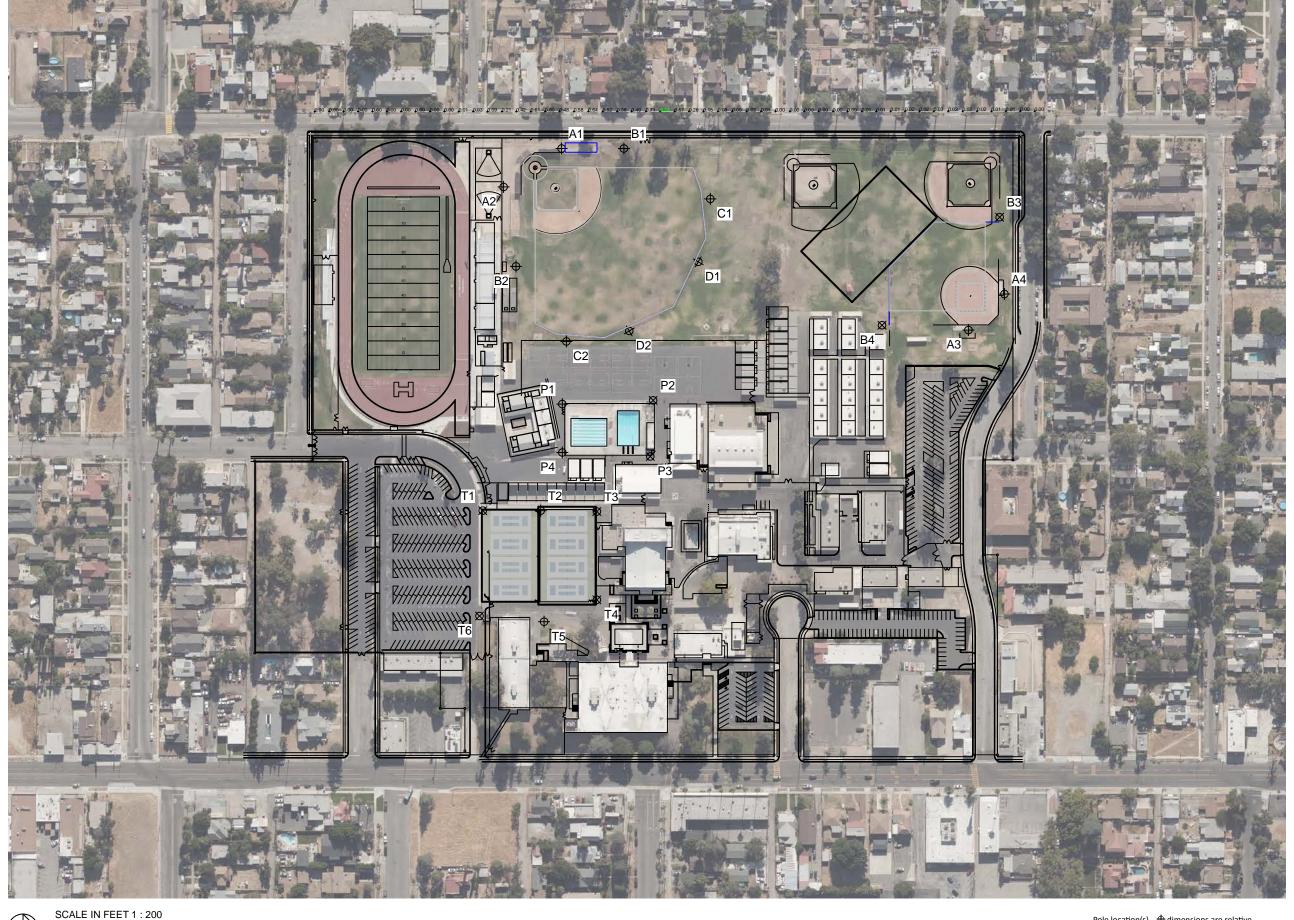
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.





San Bernardino High School Athletic Fields San Bernardino,CA

GRID SUMMARY

Name: North Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

Entire Grid

Scan Average: 0.1539 Maximum: Minimum: 0.00 No. of Points: 51

UMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H No. of Luminaires: 111 Total Load: 126.18 kW

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

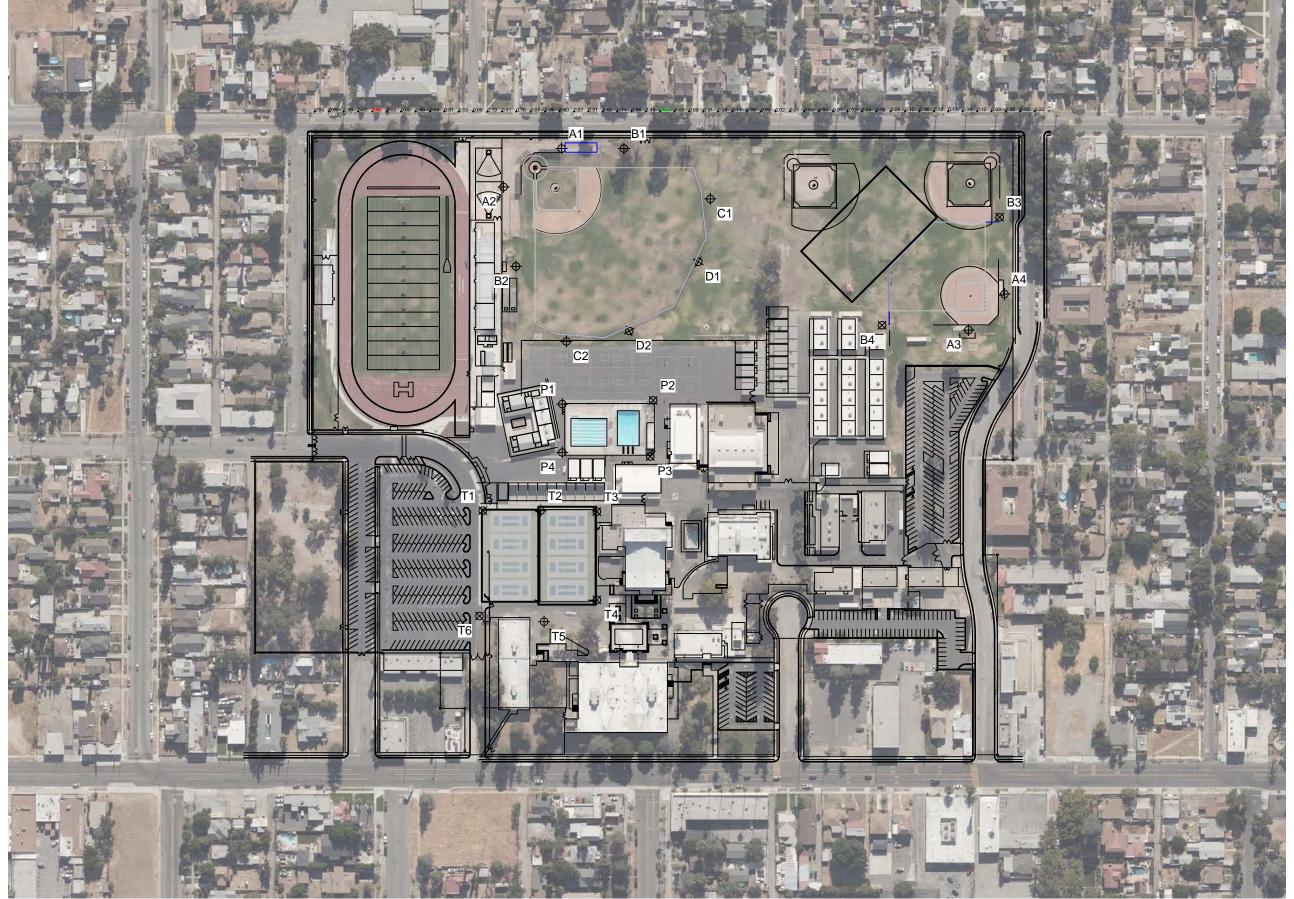
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

to 0,0 reference point(s) \otimes

We Make It Happen



GRID SUMMARY

Name: North Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

Scan Average: 0.2848
Maximum: 1.23
Minimum: 0.00
No. of Points: 51

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H

No. of Luminaires: 111

Total Load: 126.18 kW

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

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.

Light

to 0,0 reference point(s) \otimes

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GRID SUMMARY

Name: North Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid Scan Average: 8601.9717 Maximum: 25239.10 Minimum: 65.13 No. of Points:

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H No. of Luminaires: 111 Total Load: 126.18 kW

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

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.

to 0,0 reference point(s) \otimes

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GRID SUMMARY

Name: East Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

Entire Grid Scan Average: 0.0859 Maximum: Minimum: 0.00 No. of Points: UMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H

No. of Luminaires: 111 Total Load: 126.18 kW

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

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.

to 0,0 reference point(s) \otimes

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SCALE IN FEET 1:200

ENGINEERED DESIGN By: · File #207898D · 03-Sep-21

San Bernardino High School Athletic Fields San Bernardino,CA

GRID SUMMARY

Name: East Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

Scan Average: 0.2164
Maximum: 0.86
Minimum: 0.00
No. of Points: 25

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H

No. of Luminaires: 111

Total Load: 126.18 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.

Ligh

We Make It Happen

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



GRID SUMMARY

Name: East Spill Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid Scan Average: 8660.9854 Maximum: 18888.50 Minimum: 1006.51 No. of Points:

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G, H No. of Luminaires: 111 Total Load: 126.18 kW

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

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.

to 0,0 reference point(s) \otimes



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