Appendix

Appendix F Lighting Plans for San Gorgonio High School

Appendix

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Lighting System

Pole / Fixture						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	A
		16'	1	TLC-BT-575	0.58 kW	Α
A3-A4	60'	60'	3	TLC-LED-900	2.67 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
B1-B2	80'	80'	8	TLC-LED-1500	11.44 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
B3-B4	70'	70'	6	TLC-LED-1200	7.02 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
C1-C2, D1-D2	70'	70'	3	TLC-LED-1200	3.51 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
C3-C4	60'	60'	3	TLC-LED-1200	3.51 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
P1-P2	60'	60'	2	TLC-LED-400	0.80 kW	F
		60'	1	TLC-LED-600	0.58 kW	E
		60'	1	TLC-LED-900	0.89 kW	Е
P3-P4	60'	60'	2	TLC-LED-400	0.80 kW	F
		60'	2	TLC-LED-900	1.78 kW	E
T1, T6	50'	50'	2	TLC-LED-1200	2.34 kW	С
-		50'	1	TLC-LED-900	0.89 kW	С
T2	50'	50'	2	TLC-LED-1200	2.34 kW	С
		50'	2	TLC-LED-1200	2.34 kW	D
		50'	1	TLC-LED-900	0.89 kW	D
		50'	1	TLC-LED-900	0.89 kW	С
T3-T4	50'	50'	2	TLC-LED-1200	2.34 kW	D
		50'	1	TLC-LED-900	0.89 kW	D
T5	50'	50'	2	TLC-LED-1200	2.34 kW	D
-		50'	2	TLC-LED-1200	2.34 kW	С
		50'	1	TLC-LED-900	0.89 kW	С
		50'	1	TLC-LED-900	0.89 kW	D
24			114		116.27 kW	

Circuit Summ	nary		
Circuit	Description	Load	Fixture Qty
Α	Varsity Baseball	50.88 kW	44
В	Varsity Softball	29.85 kW	30
С	Tennis 1-4	12.92 kW	12
D	Tennis 5-8	12.92 kW	12
Е	Pool	6.5 kW	8
F	Pool Egress	3.2 kW	8

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	54
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	8
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	2
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	16
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	20
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14

Light Level Summary

Calculation Grid Summary	у							
Grid Name	Calculation Metric				Circuits	Fixture Qty		
		Ave	Min	Max	Max/Min	Ave/Min		
Baseball Spill Grid	Horizontal	0.35	0	2.39	0.00		A,B	74
Baseball Spill Grid	Max Candela (by Fixture)	9775	0.81	66186	82127.99	12067.66	A,B	74
Baseball Spill Grid	Max Vertical Illuminance Metric	0.55	0	3.24	0.00		A,B	74
Bullpen BB 1st baseline	Horizontal	14.2	6	20	3.24	2.36	Α	44
Bullpen BB 3rd Baseline	Horizontal	17.6	5	39	7.19	3.52	Α	44

From Hometown to Professional











Calculation Grid Summary	/							
Grid Name	Calculation Metric				Circuits	Fixture Qty		
		Ave	Min	Max	Max/Min	Ave/Min	* * * * * * * * * * * * * * * * * * * *	-
Bullpen SB 1st baseline	Horizontal	17	8	39	4.79	2.12	В	30
Bullpen SB 3rd baseline	Horizontal	18.3	8	43	5.19	2.29	В	30
Diving Pool	Horizontal	50.5	42	55	1.33	1.20	E,F	16
Pool Deck	Horizontal	39.2	22	59	2.68	1.78	E,F	16
Pool Egress	Horizontal	11.6	2	32	15.92	5.79	F	8
Swimming Pool	Horizontal	52.1	36	63	1.74	1.45	E,F	16
Tennis 1-4	Horizontal Illuminance	55.1	40	65	1.61	1.38	С	12
Tennis 5-8	Horizontal Illuminance	51.8	40	60	1.51	1.30	D	12
Tennis Spill Grid	Horizontal	0	0	0.01	0.00		C,D	24
Tennis Spill Grid	Max Candela (by Fixture)	596	0	3071	0.00		C,D	24
Tennis Spill Grid	Max Vertical Illuminance Metric	0.01	0	0.04	0.00		C,D	24
Varsity Baseball (Infield)	Horizontal Illuminance	52.6	42	59	1.40	1.25	Α	44
Varsity Baseball (Outfield)	Horizontal Illuminance	33.3	24	44	1.84	1.39	Α	44
Varsity Softball (Infield)	Horizontal Illuminance	53.3	45	61	1.34	1.18	В	30
Varsity Softball (Outfield)	Horizontal Illuminance	33.5	23	45	1.90	1.46	В	30

From Hometown to Professional

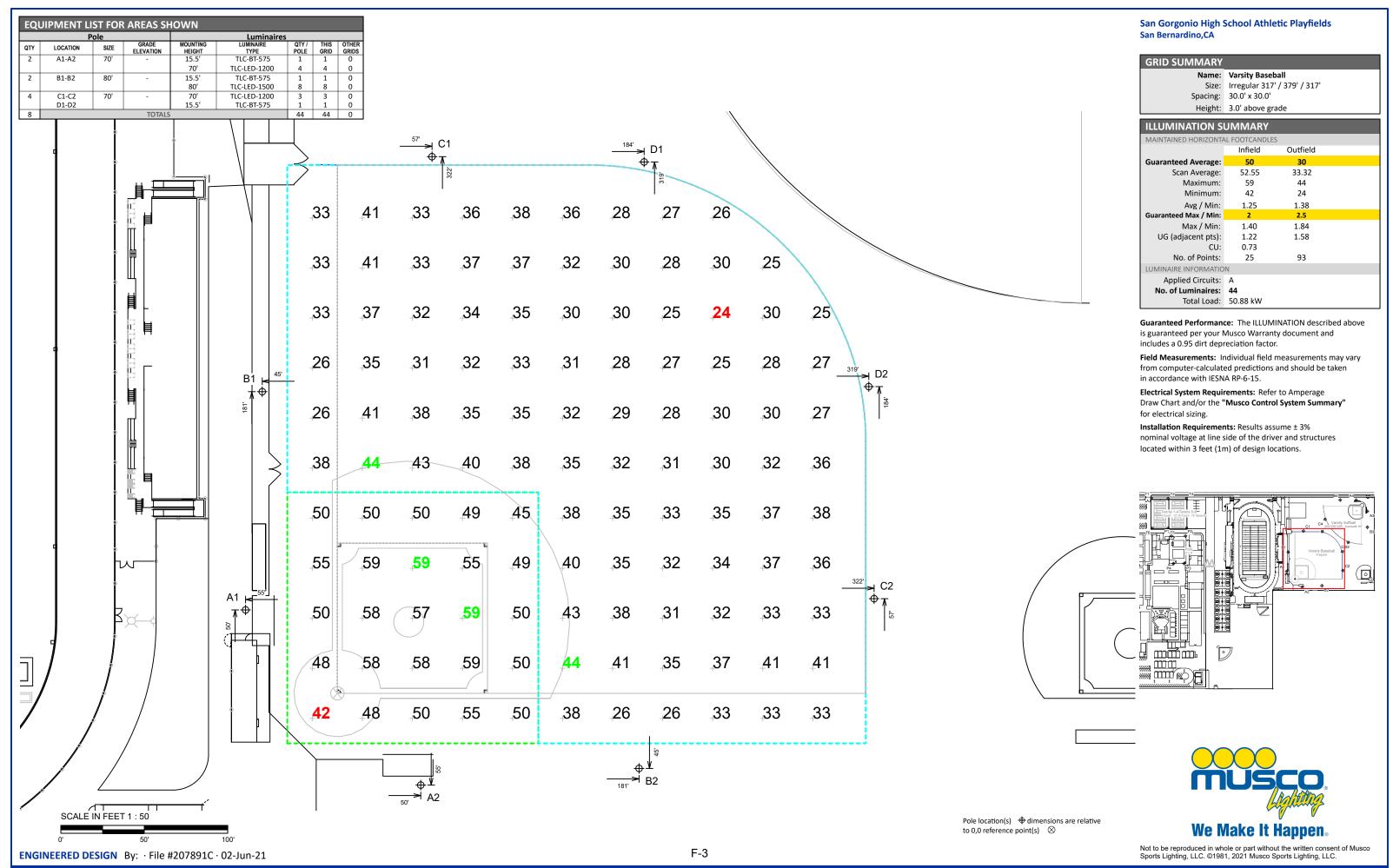








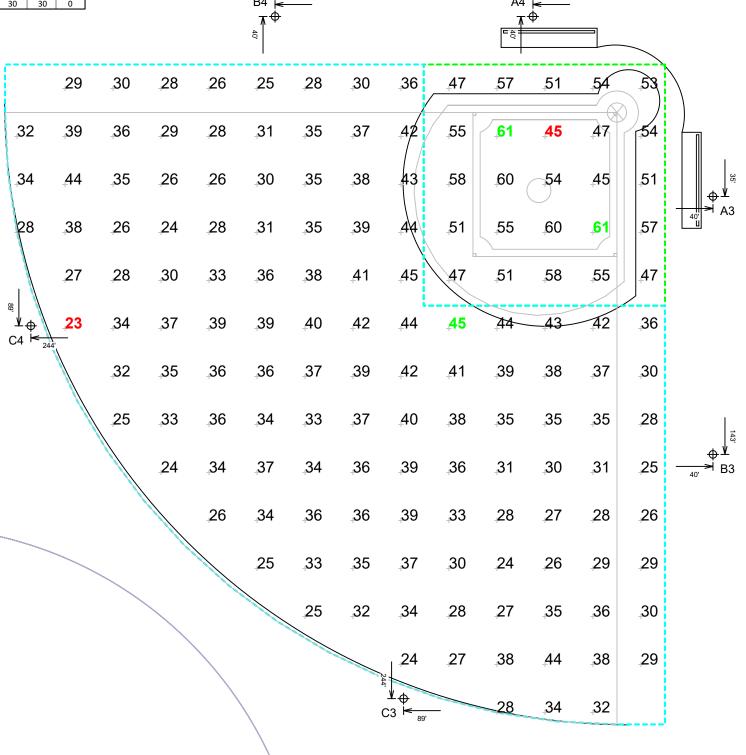




EQI	EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0		
				60'	TLC-LED-900	3	3	0		
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	6	6	0		
2	C3-C4	60'	-	15.5'	TLC-BT-575	1	1	0		
				60'	TLC-LED-1200	3	3	0		
6	6 TOTALS						30	0		

SCALE IN FEET 1:40

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

Rame:
Size:
Spacing:
Height:
Size:
Spacing:
Spacing:
Spacing:
Holight:
Spacing:
Spac

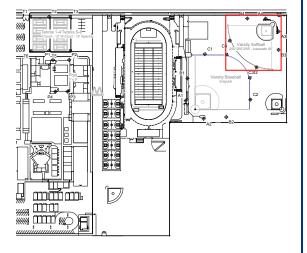
ILLUMINATION SUMMARY						
MAINTAINED HORIZONTAL FOOTCANDLES						
	Infield	Outfield				
Guaranteed Average:	50	30				
Scan Average:	53.26	33.54				
Maximum:	61	45				
Minimum:	45	23				
Avg / Min:	1.18	1.43				
Guaranteed Max / Min:	2	2.5				
Max / Min:	1.34	1.90				
UG (adjacent pts):	1.34	1.46				
CU:	0.70					
No. of Points:	25	127				
LUMINAIRE INFORMATIO	N					
Applied Circuits:	В					
No. of Luminaires:	30					
Total Load:	29.85 kW					

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

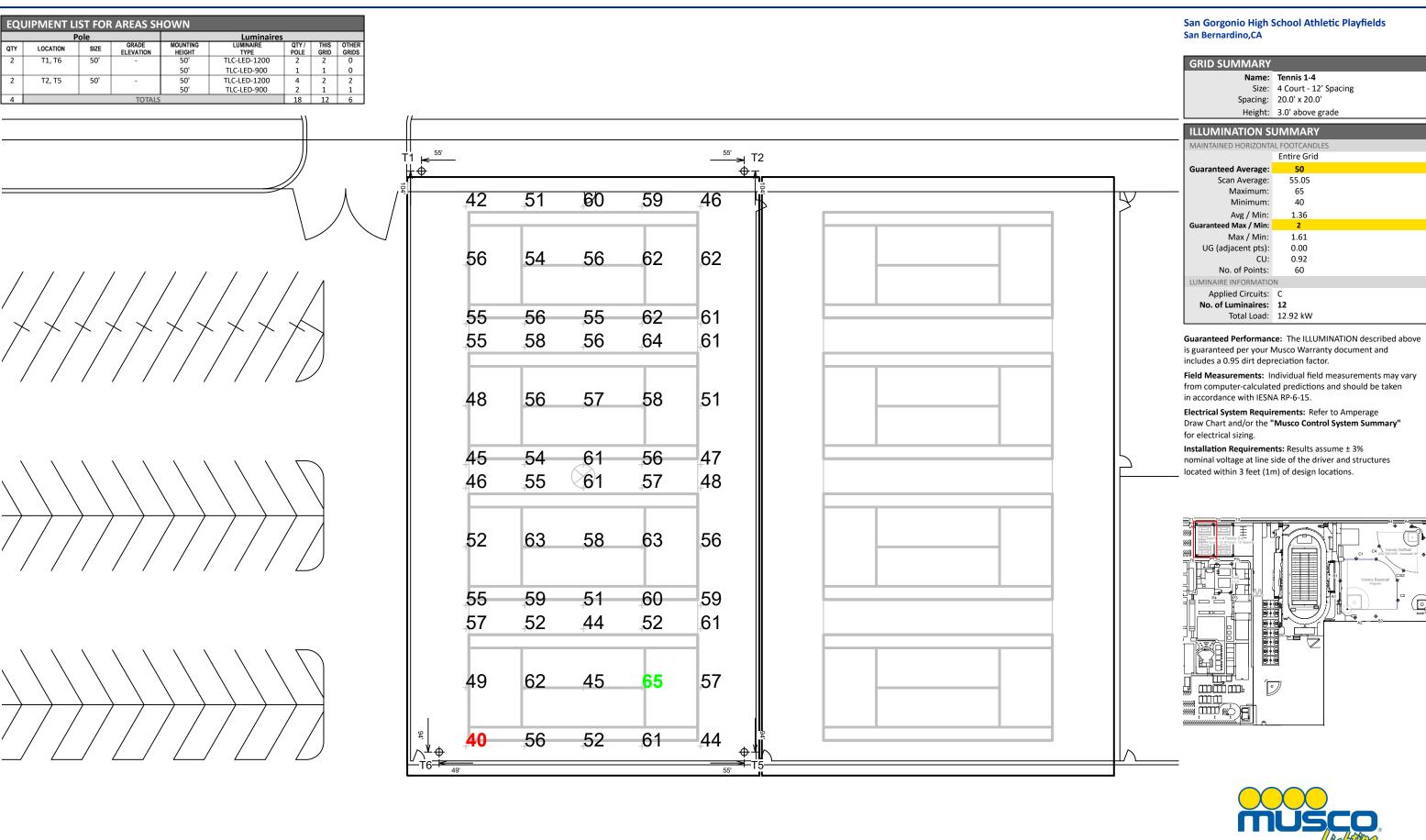
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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



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SCALE IN FEET 1:30

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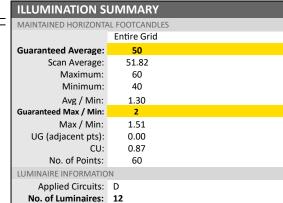
EQI	EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
2	T2, T5	50'	-	50'	TLC-LED-1200	4	2	2	
				50'	TLC-LED-900	2	1	1	
2	T3-T4	50'	-	50'	TLC-LED-1200	2	2	0	
				50'	TLC-LED-900	1	1	0	
4			TOTALS			18	12	6	

SCALE IN FEET 1:30

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San Gorgonio High School Athletic Playfields San Bernardino,CA

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



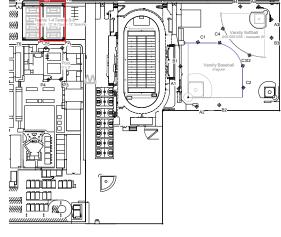
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Total Load: 12.92 kW

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.

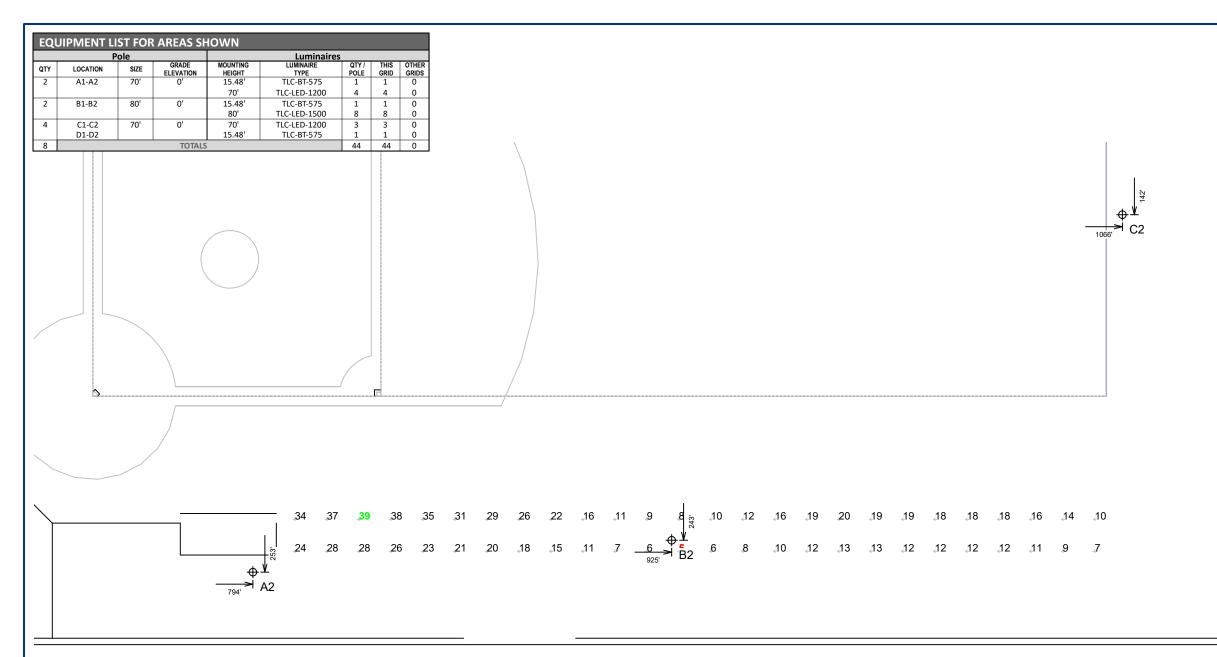
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





to 0,0 reference point(s) \otimes





RID SUMMARY

Name: Bullpen BB 3rd Baseline
Size: 0' x 0'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

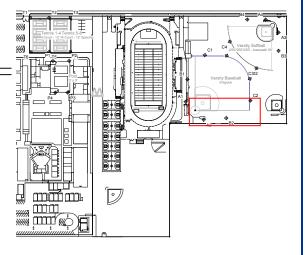
ILLUMINATION SUMMARY					
MAINTAINED HORIZONTAL FOOTCANDLES					
	Entire Grid				
Scan Average:	17.60				
Maximum:	39				
Minimum:	5				
Avg / Min:	3.28				
Max / Min:	7.19				
UG (adjacent pts):	1.57				
CU:	0.02				
No. of Points:	52				
LUMINAIRE INFORMATIO	N				
Applied Circuits:	A				
No. of Luminaires:	44				
Total Load:	50.88 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.

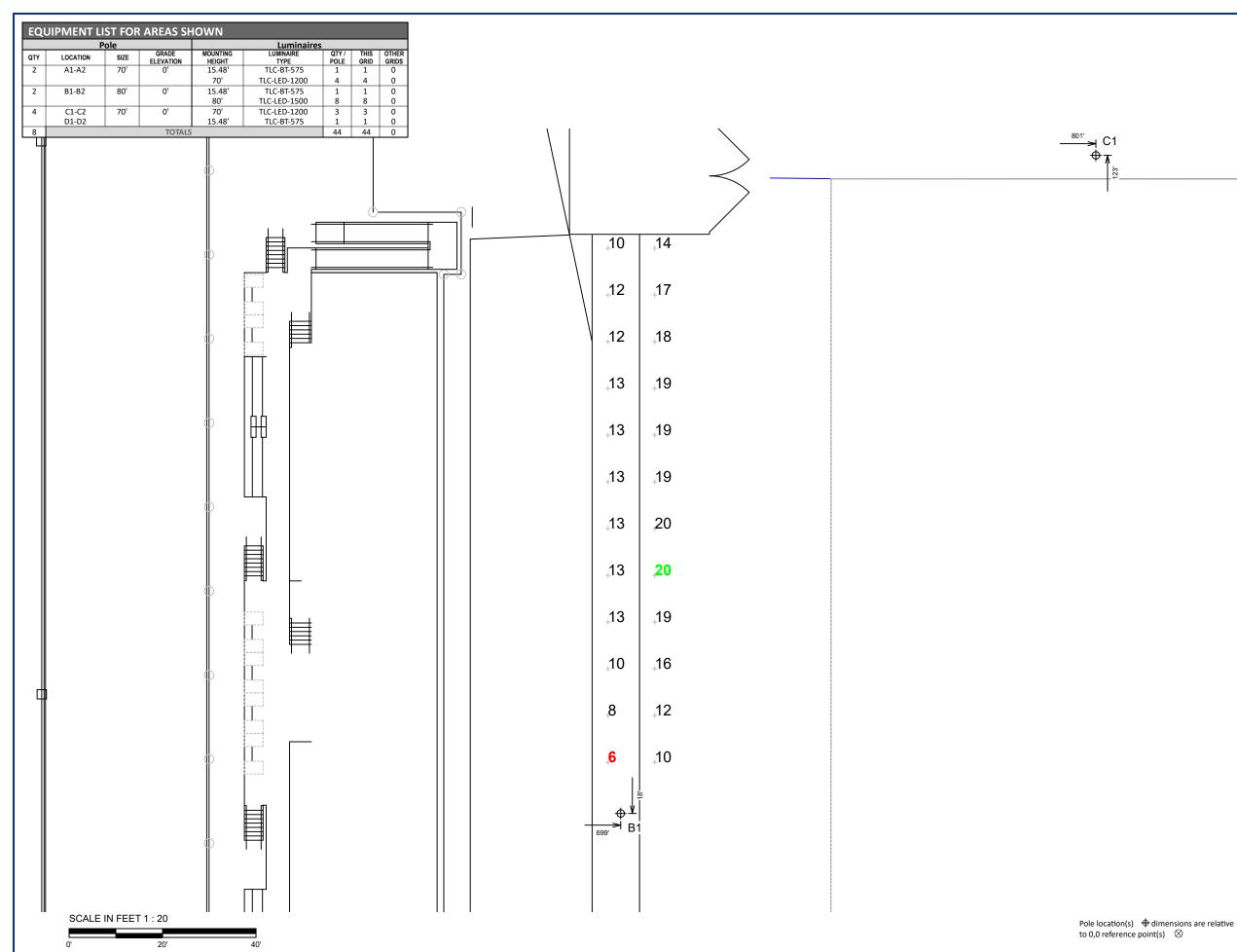




Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes



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San Gorgonio High School Athletic Playfields San Bernardino,CA

Rame:
Size:
Spacing:
Height:
SRID SUMMARY

Bullpen BB 1st baseline
0' x 0'
10.0' x 10.0'
3.0' above grade

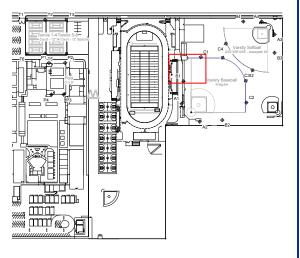
ILLUMINATION SUMMARY Entire Grid Scan Average: Maximum: 20 Minimum: Avg / Min: 2.28 Max / Min: UG (adjacent pts): 1.56 CU: 0.01 No. of Points: 24 LUMINAIRE INFORMATION Applied Circuits: A No. of Luminaires: 44 Total Load: 50.88 kW

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.





Pole Discovery Discover
2 83-94 70
2 C3-C4 60 - 15.5° TIC-6F575 1 1 3 0 0 0 TOTALS TOTAL
30 30 0 39 24 33 20 28 .17 26 .17 22 .15 .19 .12 .16 .10 .15
21 ,14 20 ,13 20 ,12 1101 C3 1101 C3 1101 A10 110

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San Gorgonio High School Athletic Playfields San Bernardino,CA

GRID SUMMARY	
Name:	Bullpen SB 3rd baseline
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

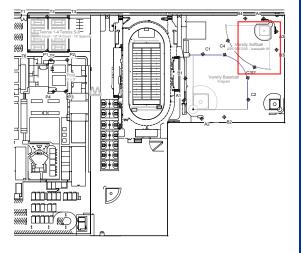
ILLUMINATION SUMMARY						
MAINTAINED HORIZONTAL FOOTCANDLES						
	Entire Grid					
Scan Average:	18.28					
Maximum:	43					
Minimum:	8					
Avg / Min:	2.19					
Max / Min:	5.19					
UG (adjacent pts):	1.69					
CU:	0.02					
No. of Points:	42					
LUMINAIRE INFORMATIO	N					
Applied Circuits:	В					
No. of Luminaires:	30					
Total Load:	29.85 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.





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

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	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	6	6	0
2	C3-C4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1200	3	3	0
6	TOTALS						30	0

GRID SUMMARY	
Name:	Bullpen SB 1st baseline
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

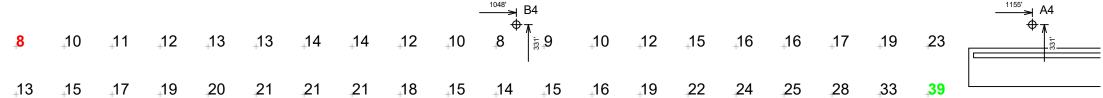
ILLUMINATION SUMMARY						
MAINTAINED HORIZONTAL FOOTCANDLES						
	Entire Grid					
Scan Average:	16.98					
Maximum:	39					
Minimum:	8					
 Avg / Min:	2.07					
Max / Min:	4.79					
UG (adjacent pts):	1.71					
CU:	0.02					
No. of Points:	40					
LUMINAIRE INFORMATIO	N					
Applied Circuits:	В					
No. of Luminaires:	30					
Total Load:	29.85 kW					

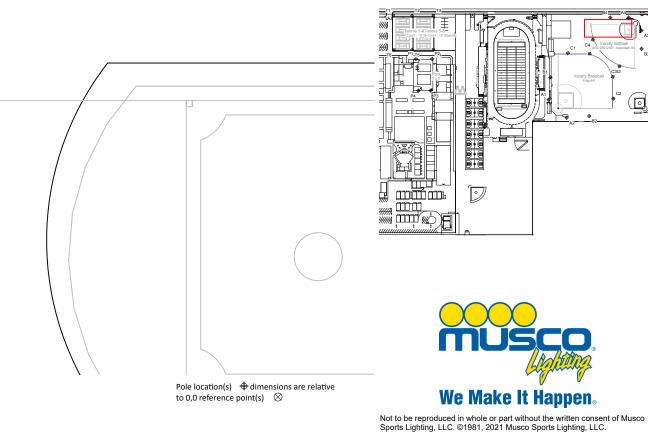
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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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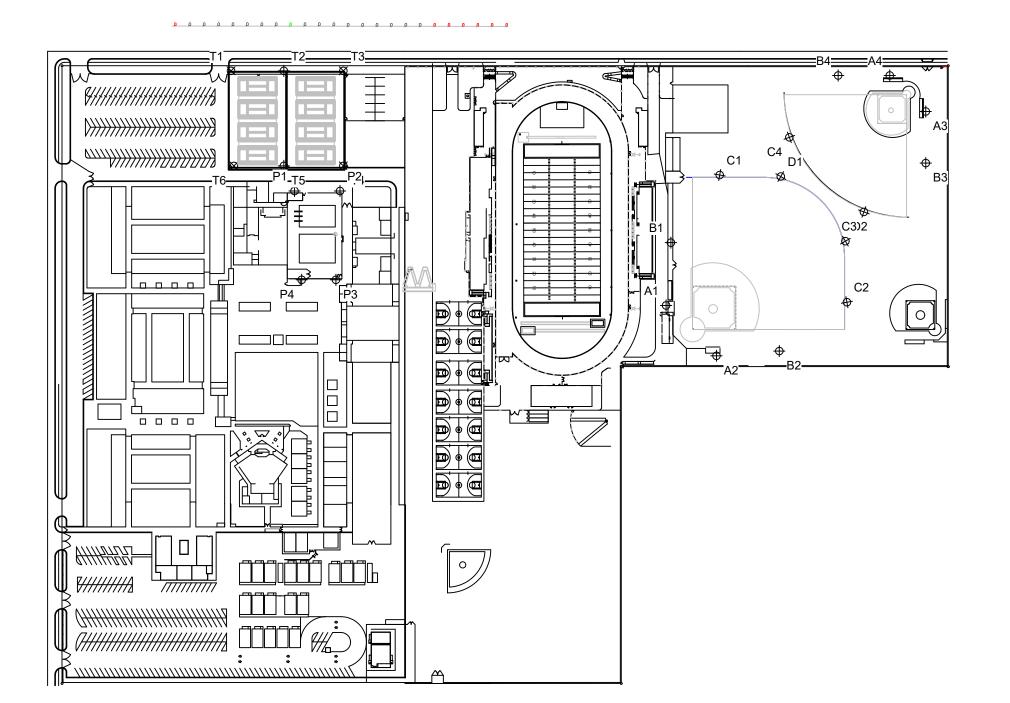
SCALE IN FEET 1:20

F-10

EQI	EQUIPMENT LIST FOR AREAS SHOWN									
Pole Luminaires										
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
4	T1, T3-T4	50'	-	50'	TLC-LED-900	1	1	0		
	T6			50'	TLC-LED-1200	2	2	0		
2	T2, T5	50'	-	50'	TLC-LED-1200	4	4	0		
				50'	TLC-LED-900	2	2	0		
6	TOTALS						24	0		

SCALE IN FEET 1:200

ENGINEERED DESIGN By: · File #207891C · 02-Jun-21



San Gorgonio High School Athletic Playfields San Bernardino,CA

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

ILLUMINATION SUMMARY					
HORIZONTAL FOOTCANDLES					
	Entire Grid				
Scan Average:	0.0015				
Maximum:	0.01				
Minimum:	0.00				
No. of Points:	24				
LUMINAIRE INFORMATION					
Applied Circuits:	C, D				
No. of Luminaires:	24				
Total Load:	25.84 kW				

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

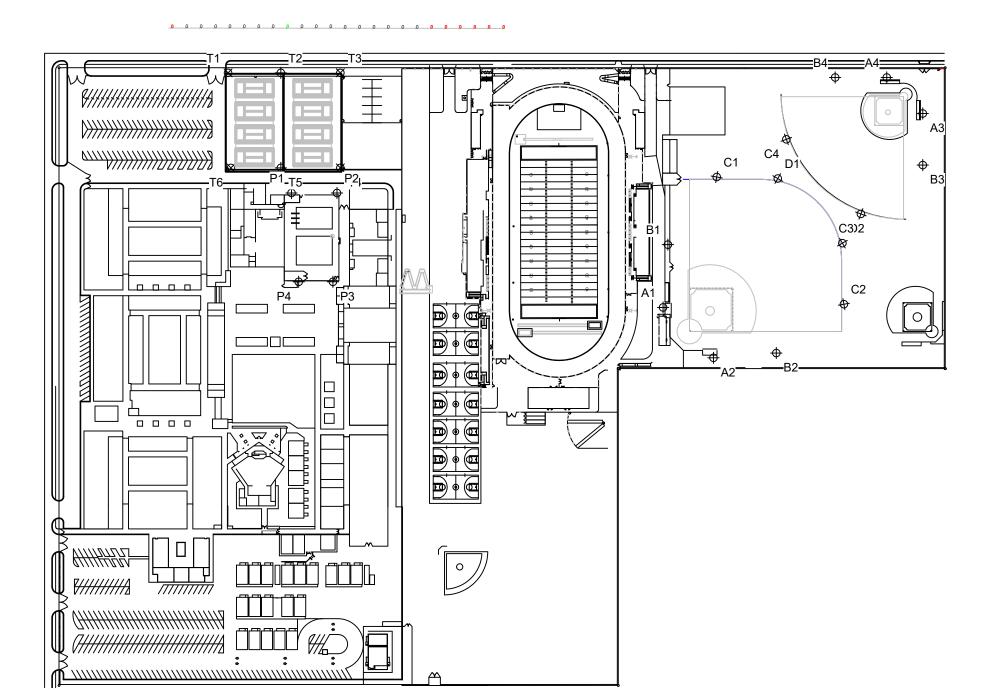
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQI	EQUIPMENT LIST FOR AREAS SHOWN								
Pole Luminaires									
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
4	T1, T3-T4	50'	-	50'	TLC-LED-900	1	1	0	
	T6			50'	TLC-LED-1200	2	2	0	
2	T2, T5	50'	-	50'	TLC-LED-1200	4	4	0	
				50'	TLC-LED-900	2	2	0	
6	TOTALS						24	0	



SCALE IN FEET 1 : 200 0' 200' 400' ENGINEERED DESIGN By: · File #207891C · 02-Jun-21

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

RRID SUMMARY Name: Tennis Spill Grid Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY						
MAX VERTICAL FOOTCANDLES						
Scan Average:	Entire Grid 0.0095					
Maximum:	0.04					
Minimum:	0.00					
No. of Points:	24					
LUMINAIRE INFORMATION						
Applied Circuits:	C, D					
No. of Luminaires: Total Load:	24 25.84 kW					

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

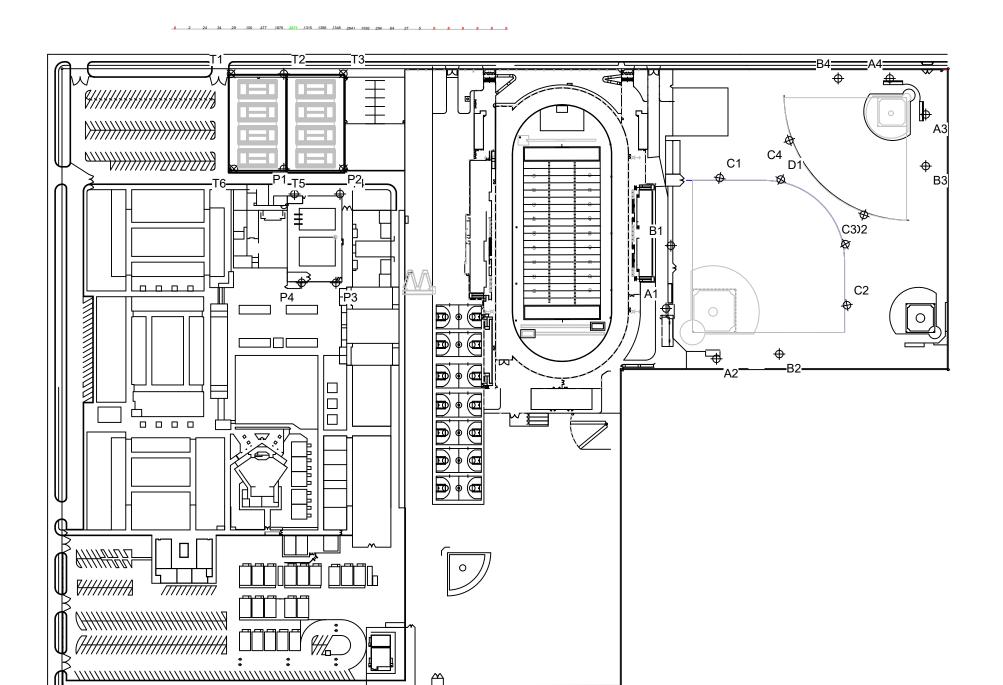
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQI	EQUIPMENT LIST FOR AREAS SHOWN								
Pole Luminaires									
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
4	T1, T3-T4	50'	-	50'	TLC-LED-900	1	1	0	
	T6			50'	TLC-LED-1200	2	2	0	
2	T2, T5	50'	-	50'	TLC-LED-1200	4	4	0	
				50'	TLC-LED-900	2	2	0	
6	TOTALS						24	0	



SCALE IN FEET 1 : 200 0' 200' 400' ENGINEERED DESIGN By: · File #207891C · 02-Jun-21

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

RID SUMMARY Name: Tennis Spill Grid Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY CANDELA (PER FIXTURE) Entire Grid 595.6179 Maximum: 3071.21 Minimum: 0.00 No. of Points: 24 LUMINAIRE INFORMATION Applied Circuits: C, D No. of Luminaires: 24 Total Load: 25.84 kW

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

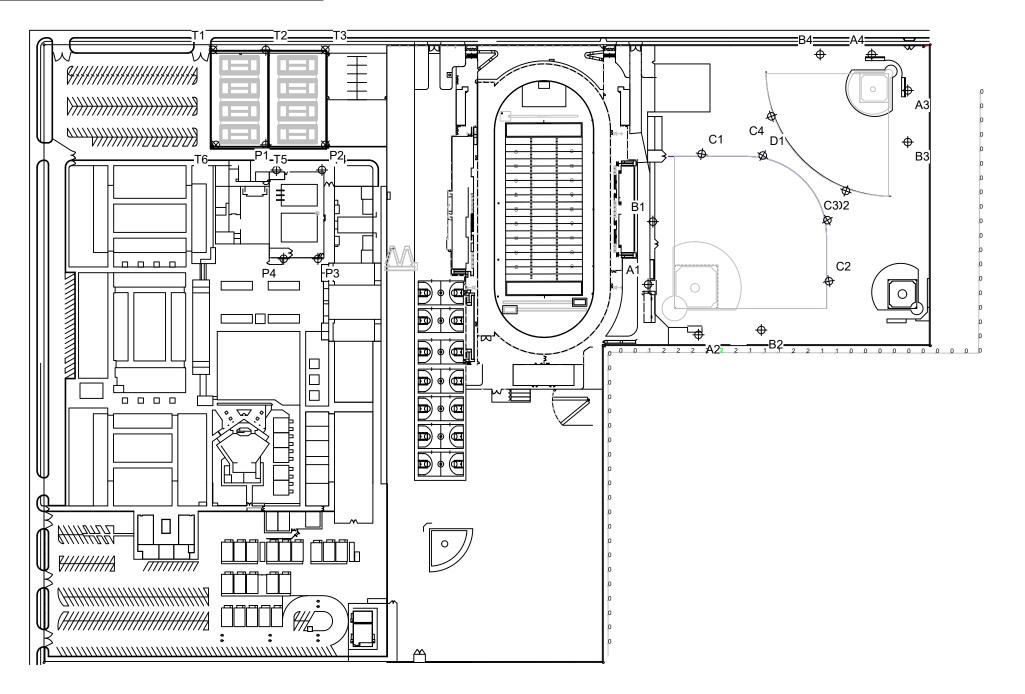
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



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	A1-A2	70'	0'	15.48'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	4	4	0	
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	3	3	0	
2	B1-B2	80'	0'	15.48'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	8	8	0	
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	6	6	0	
4	C1-C2	70'	0'	70'	TLC-LED-1200	3	3	0	
	D1-D2			15.48'	TLC-BT-575	1	1	0	
2	C3-C4	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-1200	3	3	0	
14	TOTALS						74	0	



SCALE IN FEET 1 : 200

0' 200' 400'

ENGINEERED DESIGN By: · File #207891C · 02-Jun-21

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

Rame:
Spacing:
Height:
30.0'
30.0' above grade

ILLUMINATION S	ILLUMINATION SUMMARY					
HORIZONTAL FOOTCAN	HORIZONTAL FOOTCANDLES					
	Entire Grid					
Scan Average	0.3516					
Maximum	2.39					
Minimum	: 0.00					
No. of Points	65					
LUMINAIRE INFORMATI	LUMINAIRE INFORMATION					
Applied Circuits	: A, B					
No. of Luminaires	74					
Total Load	: 80.73 kW					

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

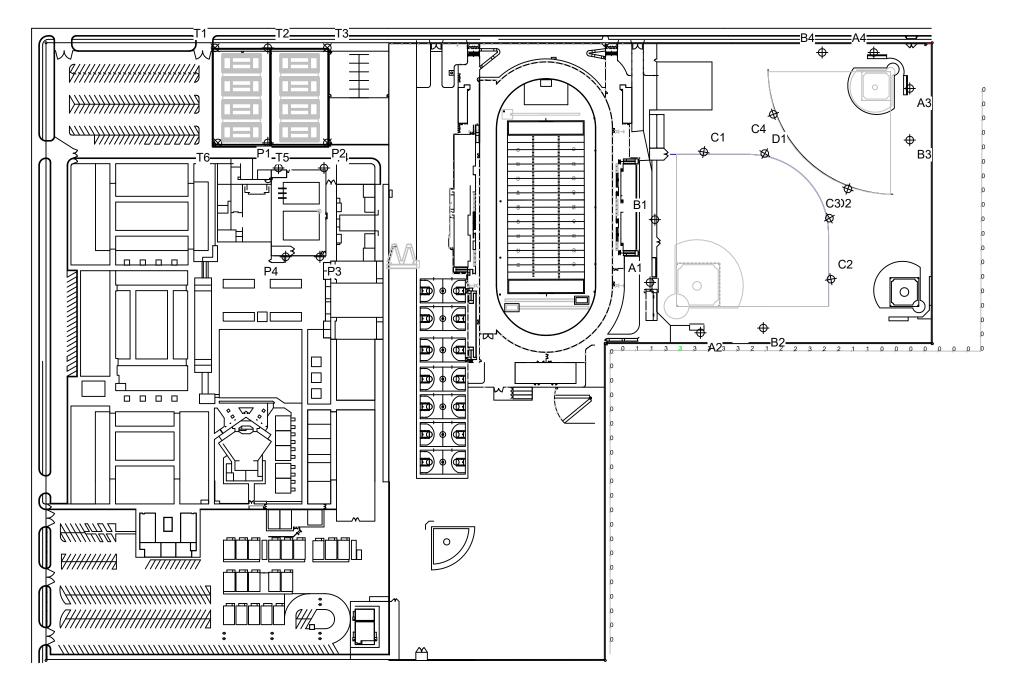
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING LUMINAIRE HEIGHT TYPE		QTY / POLE	THIS GRID	OTHER GRIDS	
2	A1-A2	70'	0'	15.48'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	4	4	0	
2	A3-A4	60'	-	15.5'	15.5' TLC-BT-575 1		1	0	
				60'	TLC-LED-900	3	3	0	
2	B1-B2	80'	0'	15.48' TLC-BT-575 1		1	0		
				80'	TLC-LED-1500	8	8	0	
2	B3-B4	70'	-	15.5' TLC-BT-575		1	1	0	
				70'	TLC-LED-1200	6	6	0	
4	C1-C2	70'	0'	70'	TLC-LED-1200	3	3	0	
	D1-D2			15.48'	TLC-BT-575	1	1	0	
2	C3-C4	60'	-	15.5' TLC-BT-575 1		1	1	0	
				60'	TLC-LED-1200	3	3	0	
14	TOTALS					74	74	0	



SCALE IN FEET 1 : 200

0' 200' 400'

ENGINEERED DESIGN By: · File #207891C · 02-Jun-21

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

Name: Baseball Spill Grid
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY						
MAX VERTICAL FOOTCAN	MAX VERTICAL FOOTCANDLES					
	Entire Grid					
Scan Average:	0.5525					
Maximum:	3.24					
Minimum:	0.00					
No. of Points:	65					
LUMINAIRE INFORMATION						
Applied Circuits:	А, В					
No. of Luminaires:	74					
Total Load:	80.73 kW					

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

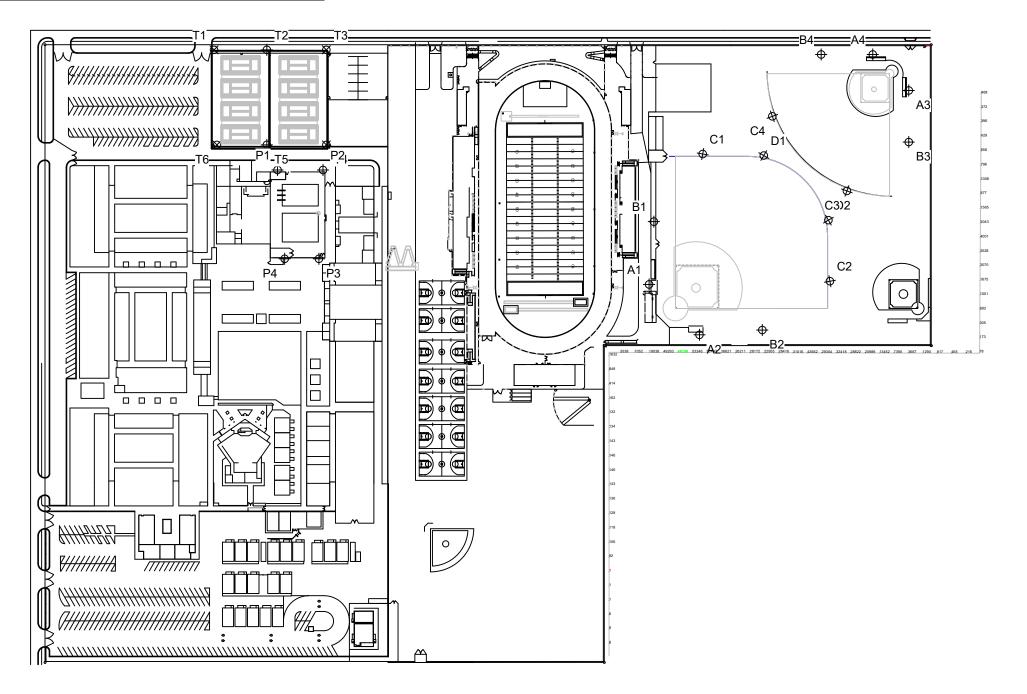
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	A1-A2	70'	0'	15.48'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	4	4	0		
2	A3-A4	60'	-	15.5'	15.5' TLC-BT-575		1	0		
				60'	TLC-LED-900	3	3	0		
2	B1-B2	80'	0'	15.48' TLC-BT-575 1		1	0			
				80'	TLC-LED-1500	8	8	0		
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	6	6	0		
4	C1-C2	70'	0'	70'	TLC-LED-1200	3	3	0		
	D1-D2			15.48'	TLC-BT-575	1	1	0		
2	C3-C4	60'	-	15.5' TLC-BT-575		1	1	0		
				60'	TLC-LED-1200	3	3	0		
14	TOTALS					74	74	0		



SCALE IN FEET 1 : 200

0' 200' 400'

ENGINEERED DESIGN By: · File #207891C · 02-Jun-21

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

San Gorgonio High School Athletic Playfields San Bernardino,CA

RID SUMMARY Name: Baseball Spill Grid Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid
9774.8037

Maximum: 66186.34

Minimum: 0.81

No. of Points: 65

LUMINAIRE INFORMATION

Applied Circuits: A, B

No. of Luminaires: 74

Total Load: 80.73 kW

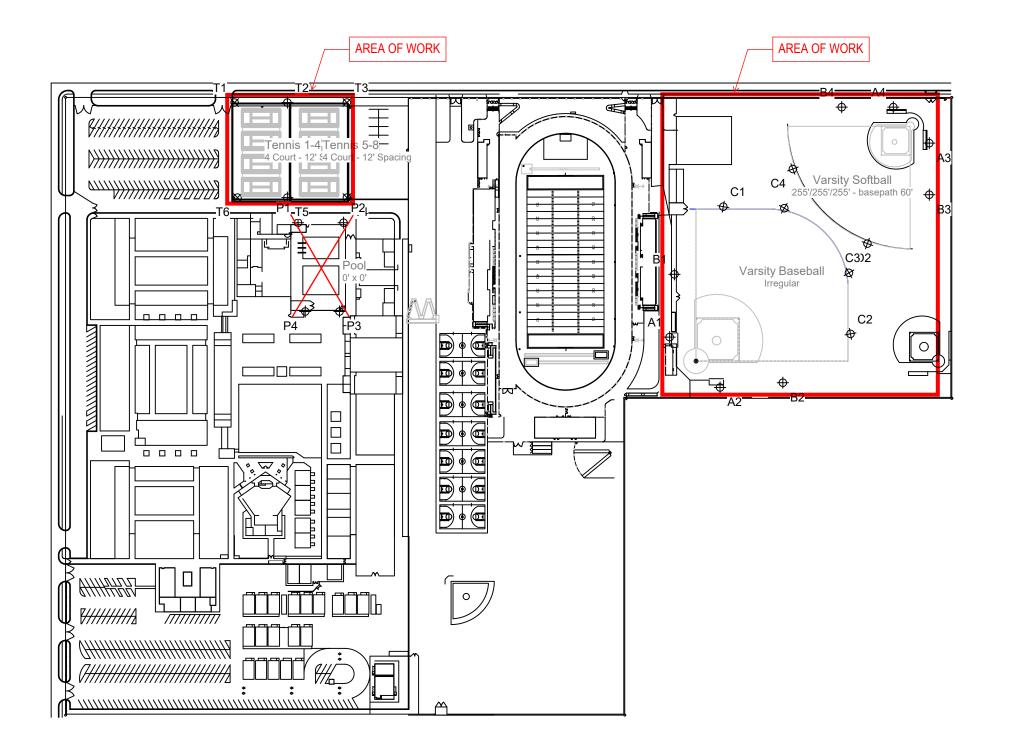
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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.





EQUIPMENT LAYOUT

INCLUDES:

· Pool

- · Tennis 1-4
- · Tennis 5-8
- · Varsity Baseball
- · Varsity Softball

Electrical System Requirements: Refer to Amperage

Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

SINGLE LUMINAIRE AMPERAGE DRAW CHART								
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)							
Single Phase Voltage	208	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0	
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0	
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5	
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7	
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3	
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5	



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