APPENDIX B

Photometric Study

Los Altos, CA

Lighting System

Pole / Fixture Summary								
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit		
F1	90'	90'	5	TLC-LED-1500	7.15 kW	Α		
		90'	4	TLC-LED-900	3.56 kW	Α		
		80'	1	TLC-LED-400	0.40 kW	В		
		16'	2	TLC-BT-575	1.15 kW	Α		
F2	90'	90'	5	TLC-LED-1500	7.15 kW	Α		
		90'	4	TLC-LED-900	3.56 kW	Α		
		80'	1	TLC-LED-400	0.40 kW	В		
		16'	2	TLC-BT-575	1.15 kW	Α		
		80'	1	TLC-LED-900	0.89 kW	В		
F3	90'	90'	6	TLC-LED-1500	8.58 kW	Α		
		90'	1	TLC-LED-900	0.89 kW	А		
		80'	1	TLC-LED-400	0.40 kW	В		
		16'	2	TLC-BT-575	1.15 kW	А		
		80'	1	TLC-LED-900	0.89 kW	В		
F4	90'	90'	6	TLC-LED-1500	8.58 kW	А		
		90'	1	TLC-LED-900	0.89 kW	Α		
		80'	1	TLC-LED-400	0.40 kW	В		
		16'	2	TLC-BT-575	1.15 kW	Α		
4			46		48.34 kW			

Circuit Summary						
Circuit	Description	Load	Fixture Qty			
Α	Football	44.96 kW	40			
В	Egress	3.38 kW	6			

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>81,000	>81,000	>81,000	12
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>81,000	>81,000	>81,000	22
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>81,000	>81,000	>81,000	8
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>81,000	>81,000	>81,000	4

Light Level Summary

Calculation Grid Summary								
Grid Name Calculation Metric				Illumination			Circuits	Fixture Qty
Ond Hamb	- Caroaration mound	Ave	Min	Max	Max/Min	Ave/Min	0000	· mus diy
Away Bleachers Egress	Horizontal Illuminance	7.07	2	13	5.88	3.54	В	6
Egress	Horizontal	3.80	1	11	12.32	3.80	В	6
Football	Horizontal Illuminance	41.3	29	48	1.66	1.42	Α	40
Home Bleacher Egress	Horizontal Illuminance	7.84	4	13	3.20	1.96	В	6
Path of Egress	Horizontal	3.99	0	10.5	25848.51		В	6
Property Spill	Horizontal	0	0	0.03	0.00		Α	40
Property Spill	Max Candela (by Fixture)	302	0	1259	0.00		Α	40
Property Spill	Max Vertical Illuminance Metric	0.01	0	0.06	0.00		A	40
Soccer	Horizontal Illuminance	40.1	26	48	1.84	1.54	Α	40
Track	Horizontal Illuminance	13.4	2	28	12.69	6.68	Α	40

From Hometown to Professional











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EQUIPMENT LIST FOR AREAS SHOWN LOCATION 80' TLC-LED-400 15.5' 90' TLC-BT-575 TLC-LED-900 TLC-LED-900 F2 90' 90' 80' 4 0 TLC-LED-400 15.5' 80' TLC-BT-575 TLC-LED-900 90' TLC-LED-1500 TLC-LED-900 TLC-LED-400 F3 90' 90' 80' TLC-BT-575 15.5' 80' TLC-LED-900 TLC-LED-1500 TLC-LED-900 80' TLC-LED-400 15.5' TLC-BT-575 90' TLC-LED-1500 400 42⁰€► 440ε 440ε 420 7 420 29 35

Los Altos HS Football

Los Altos, CA

GRID SUMMARY

Name: Football
Size: 360' x 160'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY						
MAINTAINED HORIZONTA	MAINTAINED HORIZONTAL FOOTCANDLES					
	Entire Grid					
Guaranteed Average:	40					
Scan Average:	41.32					
Maximum:	48					
Minimum:	29					
Avg / Min:	1.42					
Guaranteed Max / Min:	Guaranteed Max / Min: 2.5					
Max / Min:	1.66					
UG (adjacent pts):	1.31					
CU:	0.55					
No. of Points:	72					
LUMINAIRE INFORMATIO	N					
Color / CRI:	5700K - 75 CF	RI				
Luminaire Output:	89,600 / 160,	000 / 52,000 lu	mens			
No. of Luminaires:	40					
Total Load:	44.96 kW					
		Lum	en Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs			
TLC-LED-900	>81,000	>81,000	>81,000			
TLC-LED-1500	>81,000 >81,000 >81,000					
TLC-BT-575	>81,000	>81,000	>81,000			
Reported per TM-21-11. See luminaire datasheet for details.						

Guaranteed Performance: The ILLUMINATION described

above is guaranteed per your Musco Warranty document and includes a 0.95

dirt depreciation factor.

to 0,0 reference point(s) \otimes

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 LOCATION SIZE 80' TLC-LED-400 TLC-BT-575 15.5' TLC-LED-900 TLC-LED-900 F2 90' 90' 80' TLC-LED-400 0 15.5' 80' TLC-BT-575 TLC-LED-900 TLC-LED-1500 90' TLC-LED-900 TLC-LED-400 F3 90' 90' 80' 15.5' 80' TLC-BT-575 TLC-LED-900 TLC-LED-1500 TLC-LED-900 80' TLC-LED-400 15.5' TLC-BT-575 90' TLC-LED-1500 39 29 30 39 11142111

SCALE IN FEET 1:60

ENGINEERED DESIGN By: Daniel Lohman • File #193131D • 02-Jan-20

Los Altos HS Football

ILLUMINATION SUMMARY

Scan Average:

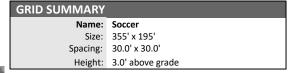
Maximum:

Minimum:

TLC-LED-1500

TLC-BT-575

Los Altos, CA



Entire Grid

48

26

	Avg / Min:	1.53				
	Max / Min:	1.84				
	UG (adjacent pts):	1.42				
	CU:	0.63				
	No. of Points:	84				
	LUMINAIRE INFORMATION					
	Color / CRI:	5700K - 75 CRI				
763	Luminaire Output:	89,600 / 160,	000 / 52,000 lu	mens		
4	No. of Luminaires:	40				
	Total Load:	44.96 kW				
	Lumen Maintenance					
	Luminaire Type	L90 hrs	L80 hrs	L70 hrs		
	TLC-LED-900	>81,000	>81,000	>81,000		

>81,000

>81,000

>81,000 >81,000

>81,000

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

Reported per TM-21-11. See luminaire datasheet for details.

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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EQUIPMENT LIST FOR AREAS SHOWN LOCATION SIZE 80' TLC-LED-400 TLC-BT-575 15.5' 90' TLC-LED-900 TLC-LED-900 F2 90' 4 0 90' 80' TLC-LED-400 15.5' 80' TLC-BT-575 TLC-LED-900 90' TLC-LED-1500 TLC-LED-900 TLC-LED-400 F3 90' 90' 80' 15.5' 80' TLC-BT-575 TLC-LED-900 TLC-LED-1500 TLC-LED-900 80' TLC-LED-400 15.5' TLC-BT-575 90' TLC-LED-1500 430

Los Altos HS Football

ILLUMINATION SUMMARY

Luminaire Type TLC-LED-900

TLC-LED-1500

TLC-BT-575

dirt depreciation factor.

MAINTAINED HORIZONTAL FOOTCANDLES

Scan Average: 13.36

Los Altos, CA



Sci.	Maximum:	28		
	Minimum:	2		
2	Avg / Min:	6.03		
	Max / Min:	12.69		
	UG (adjacent pts):	0.00		
	CU:	0.12		
	No. of Points:	47		
	LUMINAIRE INFORMATIO	N		
9	Color / CRI:	5700K - 75 CF	RI	
70	Luminaire Output:	89,600 / 160,	000 / 52,000 lu	mens
5	No. of Luminaires:	40		
	Total Load:	44.96 kW		
			Lum	en Maintenance
	Luminaire Type	L90 hrs	L80 hrs	L70 hrs

Entire Grid

Reported per TM-21-11. See luminaire datasheet for details. Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95

>81,000

>81,000

>81,000

>81,000

>81,000 >81,000

>81,000

>81,000

>81,000

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

EQUIPMENT LIST FOR AREAS SHOWN LOCATION SIZE ELEVATION 80' TLC-LED-400 TLC-BT-575 15.5' TLC-LED-900 F2 90' TLC-LED-900 90' 80' TLC-LED-400 15.5' 80' TLC-BT-575 TLC-LED-900 90' TLC-LED-1500 F3 90' 90' 80' TLC-LED-900 1.6 2.4 3.5 4.0 3.9 3.5 3.0 2.6 2.3 2.0 1.7 1.3 TLC-LED-400 TLC-BT-575 15.5' 80' TLC-LED-900 TLC-LED-1500 TLC-LED-900 2.3 3.9 80' TLC-LED-400 15.5' TLC-BT-575 90' TLC-LED-1500 40 02⊳ \Box U.S 1.5 2.3 3.1 3.8 4.1 5.1 6.0 6.2 5.8 3.8 4.1 4.2 3.8 3.2 3.0 2 1.5 2.1 2.6 3.2 4.0 4.8 5.2 5.3 5.0 4.5 4.0 3.5 2.9 2.4 1.9 1.7 1.5 2.0 2.5 2.9 3.2 3.1 2.8 2.4 1.9 1.5 1.2 **0.9**

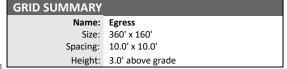
SCALE IN FEET 1:60

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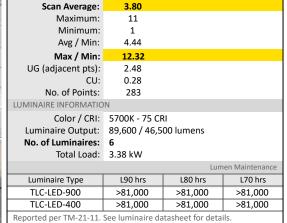
Los Altos HS Football

ILLUMINATION SUMMARY

Los Altos, CA



Entire Grid



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.

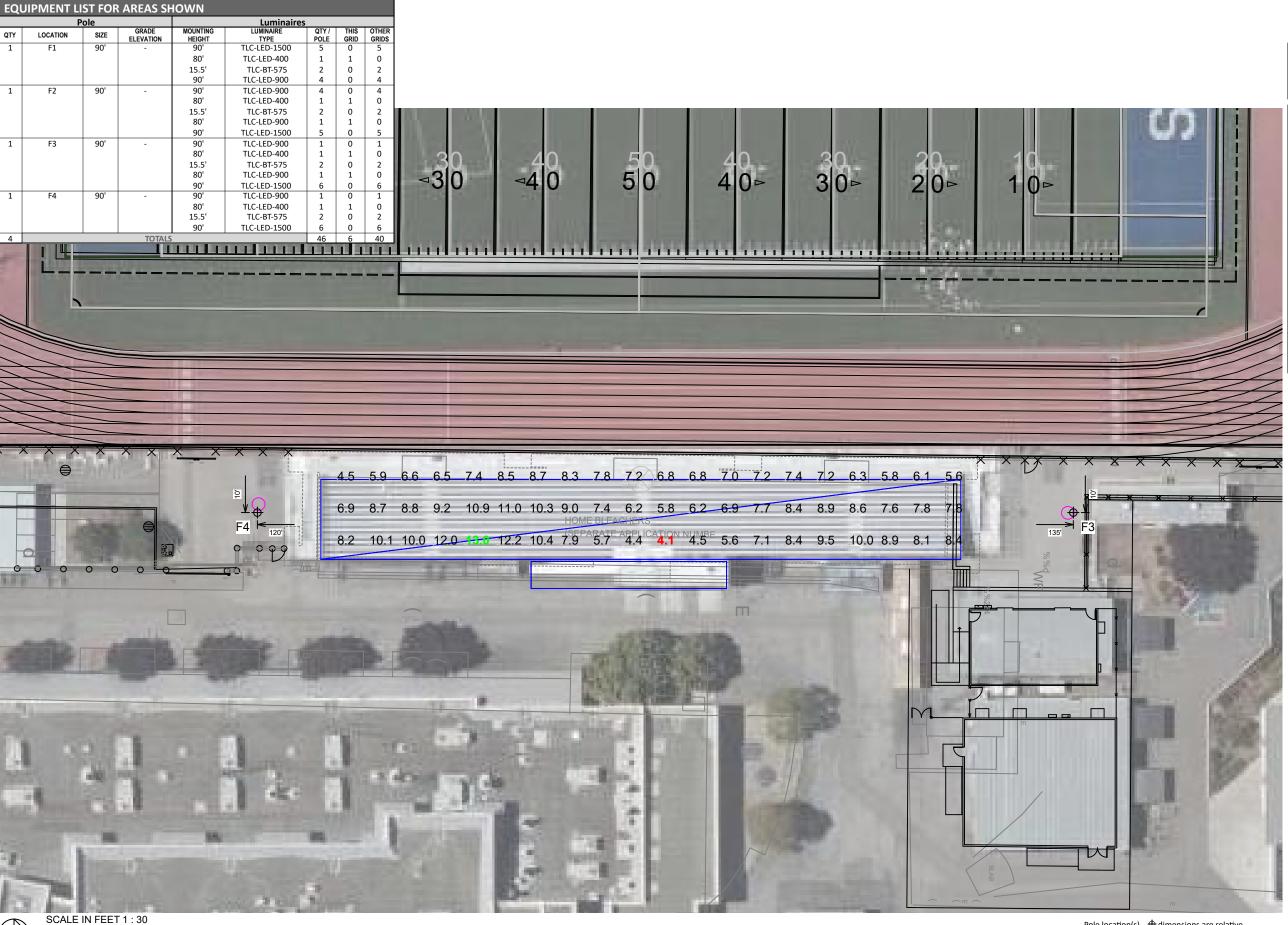
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY

to 0,0 reference point(s) \otimes



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Los Altos HS Football

ILLUMINATION SUMMARY

Los Altos, CA

GRID SUMMARY Name: Home Bleacher Egress Spacing: 10.0' x 10.0' Height: 18.2' above grade

Entire Grid Scan Average: Maximum: 13 Minimum: Avg / Min: 1.92 Max / Min: 3.20 0.00 UG (adjacent pts): CU: 0.12 No. of Points: LUMINAIRE INFORMATION Color / CRI: 5700K - 75 CRI Luminaire Output: 89,600 / 46,500 lumens No. of Luminaires: 6 Total Load: 3.38 kW L70 hrs Luminaire Type L90 hrs L80 hrs TLC-LED-900 >81,000 >81,000 >81,000 TLC-LED-400 >81,000 >81,000 >81,000 Reported per TM-21-11. See luminaire datasheet for details

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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EQUIPMENT LIST FOR AREAS SHOWN LOCATION 80' TLC-LED-400 15.5' 90' TLC-BT-575 TLC-LED-900 TLC-LED-900 TLC-LED-400 F2 90' 80' 15.5' 80' TLC-BT-575 TLC-LED-900 90' TLC-LED-1500 TLC-LED-900 TLC-LED-400 F3 90' 90' 80' TLC-BT-575 15.5' 80' TLC-LED-900 TLC-LED-1500 TLC-LED-900 80' TLC-LED-400 15.5' TLC-BT-575 TLC-LED-1500 Field Measurements: Individual field measurements may vary from 8.7 11.6 13.2 11.8 9.1 6.2 4.6 4.0 4.2 5.2 6.4 8.8 10.3 11.3 11.1 9.9 8.3 6.4 5.4 5.0 5.1 5.8 to 0,0 reference point(s) \otimes

ENGINEERED DESIGN By: Daniel Lohman • File #193131D • 02-Jan-20

Los Altos HS Football

Los Altos, CA

GRID SUMMARY	
Name:	Away Bleachers Egress
Spacing:	10.0' x 10.0'
Height:	8.2' above grade

MAINTAINED HORIZONTA	AL FOOTCANDLES	5		
	Entire Grid			
Scan Average:	7.07			
Maximum:	13			
Minimum:	2			
Avg / Min:	3.16			
Max / Min:	5.88			
UG (adjacent pts):	0.00			
CU:	0.06			
No. of Points:	33			
LUMINAIRE INFORMATIO	N			
Color / CRI:	5700K - 75 CF	RI		
Luminaire Output:	89,600 / 46,5	00 lumens		
No. of Luminaires:	6			
Total Load:	3.38 kW			
		Lun	nen Maintenance	
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-900	>81,000	>81,000	>81,000	
TLC-LED-400	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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

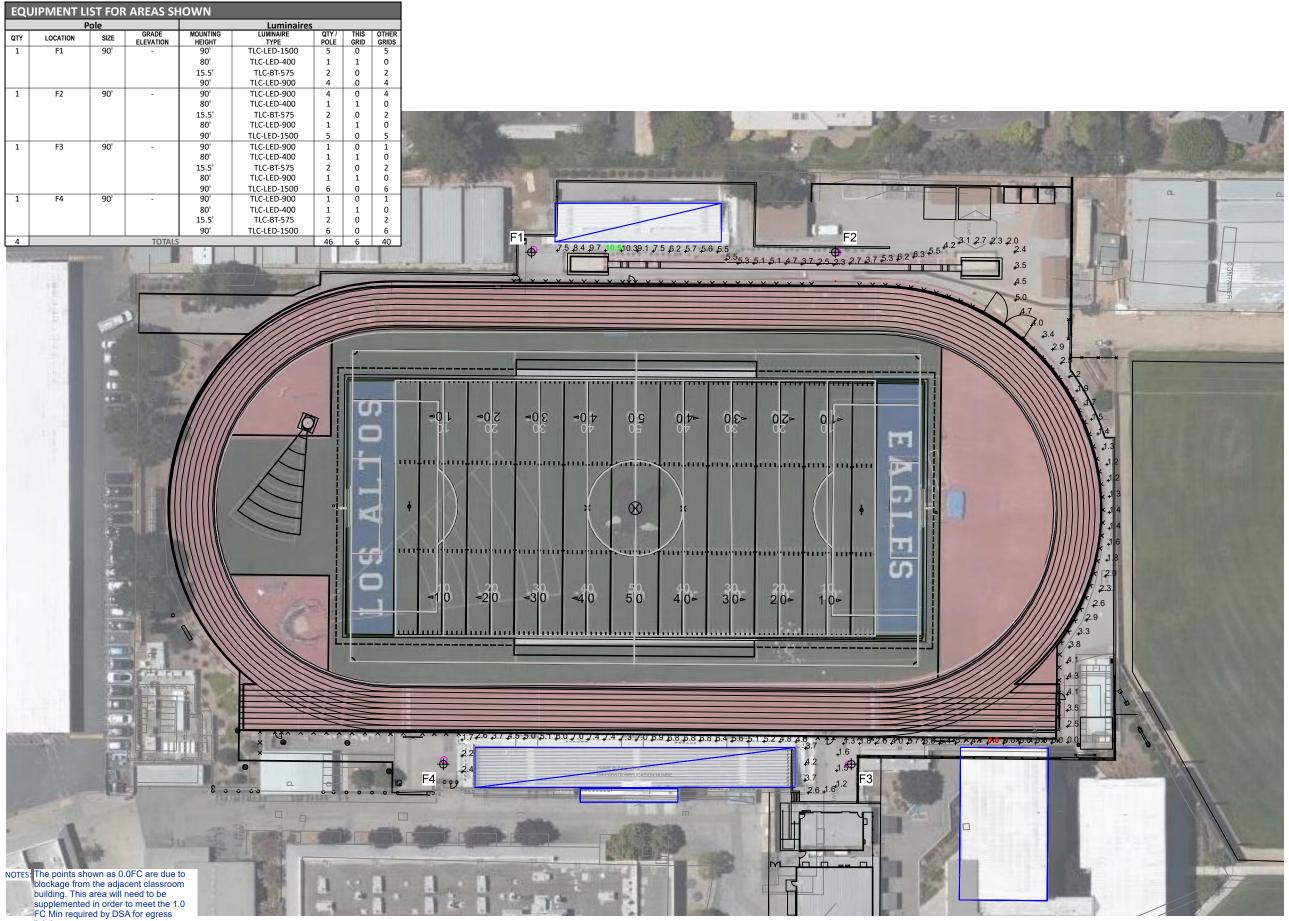
computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

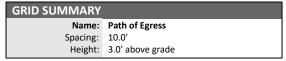
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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Los Altos, CA



ILLUMINATION SUMMARY					
HORIZONTAL FOOTCAND	LES				
	Entire Grid				
Scan Average:	3.9903				
Maximum:	10.49				
Minimum:	: 0.00				
No. of Points:	110				
LUMINAIRE INFORMATIO	N				
Color / CRI: Luminaire Output: No. of Luminaires:					
Total Load:	3.38 kW				
		Lum	en Maintenance		
Luminaire Type	L90 hrs	L80 hrs	L70 hrs		
TLC-LED-900	>81,000	>81,000	>81,000		
TLC-LED-400	>81,000	>81,000	>81,000		
Reported per TM-21-11 See luminaire datasheet for details					

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.

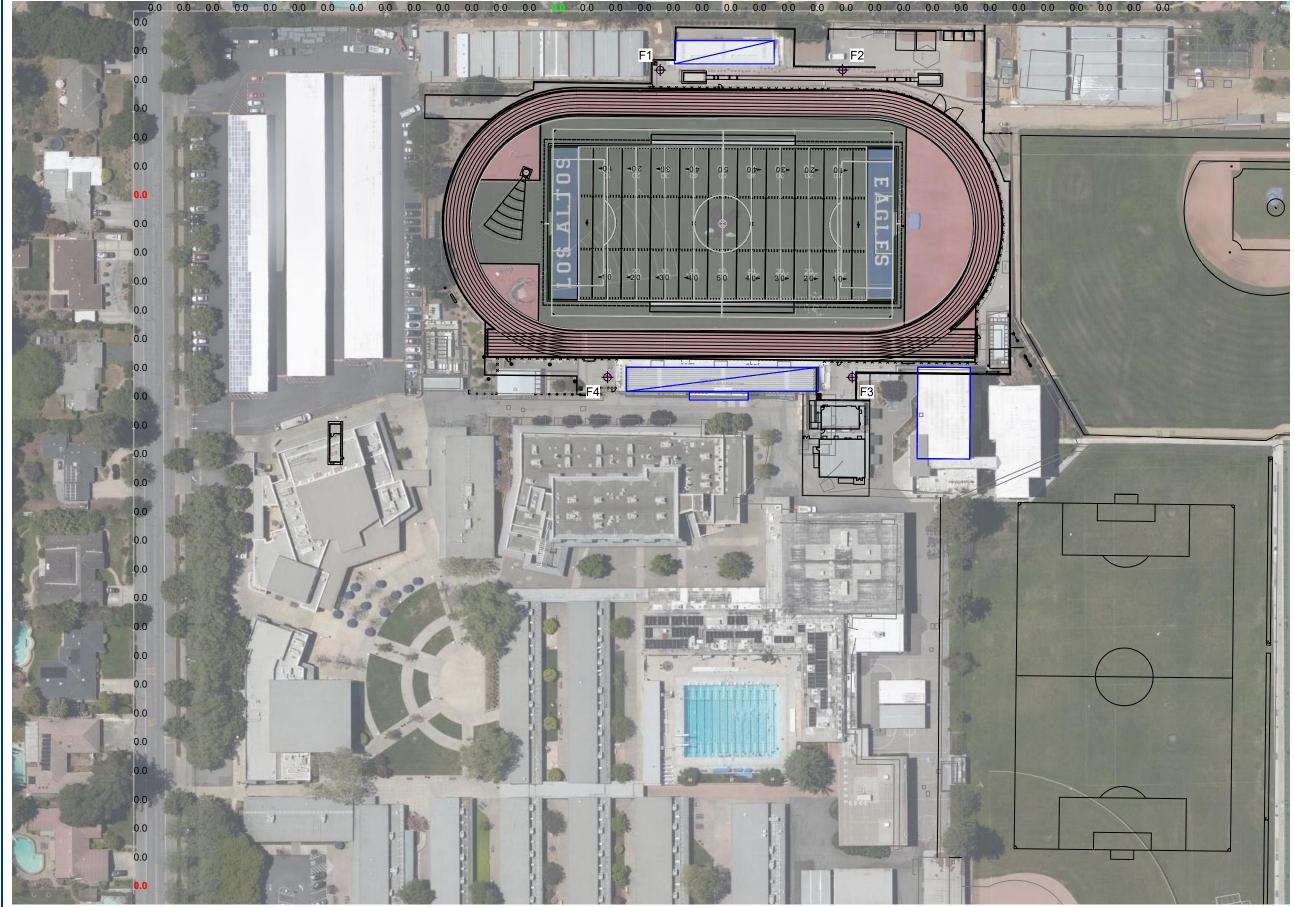
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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to 0,0 reference point(s) \otimes

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ILLUMINATION SUMMARY

Los Altos, CA

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

Entire Grid Scan Average: 0.0044 Minimum: 0.00 No. of Points: 67 LUMINAIRE INFORMATION Color / CRI: 5700K - 75 CRI Luminaire Output: 89,600 / 160,000 / 52,000 lumens No. of Luminaires: 40 Total Load: 44.96 kW L80 hrs L70 hrs L90 hrs Luminaire Type TLC-LED-900 >81,000 >81,000 >81,000 TLC-LED-1500 >81,000 >81,000 >81,000

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

Reported per TM-21-11. See luminaire datasheet for details.

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

>81,000 >81,000

>81,000

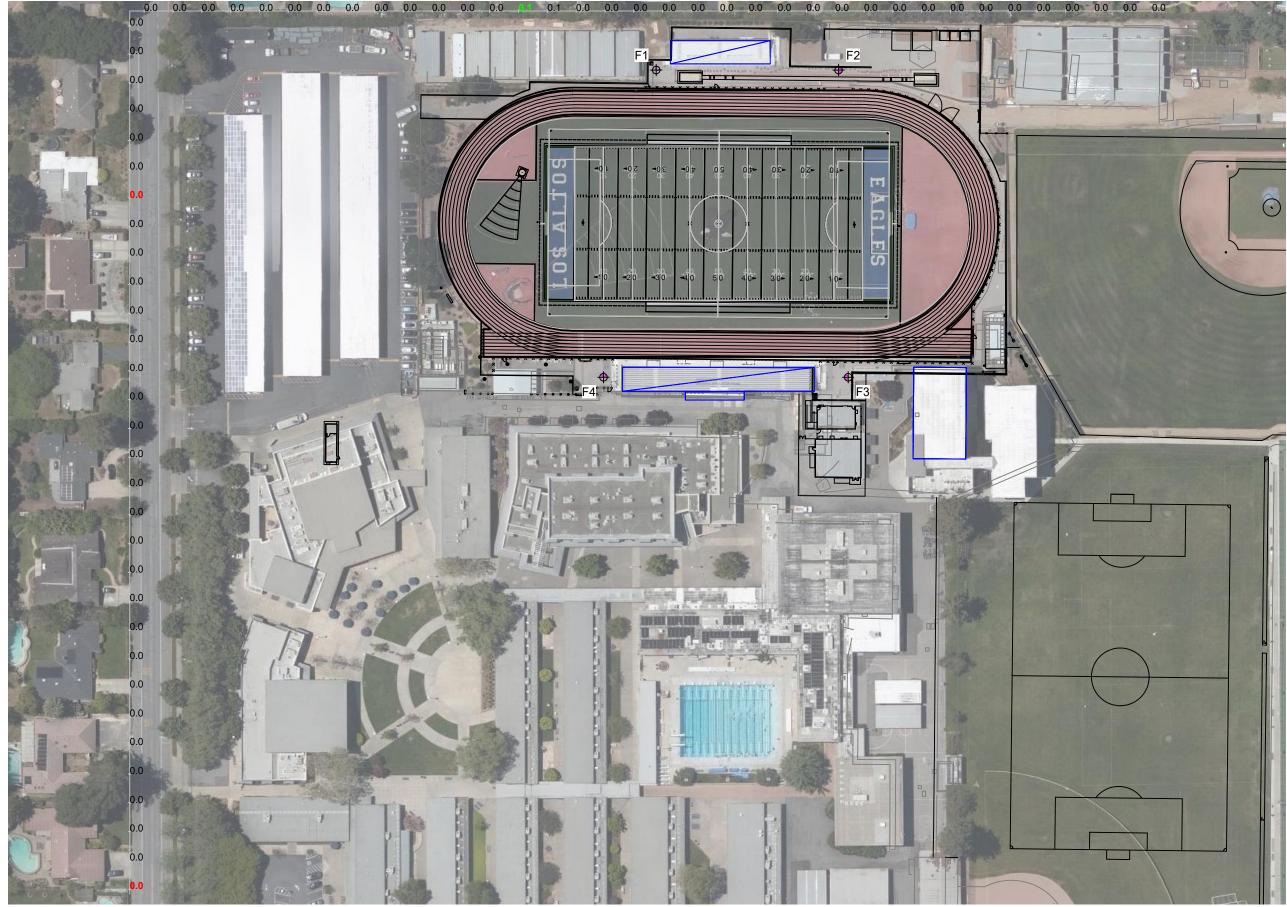
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



Los Altos, CA



ILLUMINATION SUMMARY					
MAX VERTICAL FOOTCANDLES					
Entire Grid					
Scan Average:	can Average: 0.0095				
Maximum:	0.06				
Minimum:	0.00				
No. of Points:	67				
LUMINAIRE INFORMATIO	N				
Color / CRI:	5700K - 75 CF	RI			
Luminaire Output:	89,600 / 160,	000 / 52,000 lu	mens		
No. of Luminaires:	40				
Total Load:	44.96 kW				
Lumen Maintenance					
Luminaire Type	L90 hrs	L80 hrs	L70 hrs		
TLC-LED-900	>81,000	>81,000	>81,000		

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

>81,000

TLC-LED-1500

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

>81,000

>81,000 >81,000

>81,000

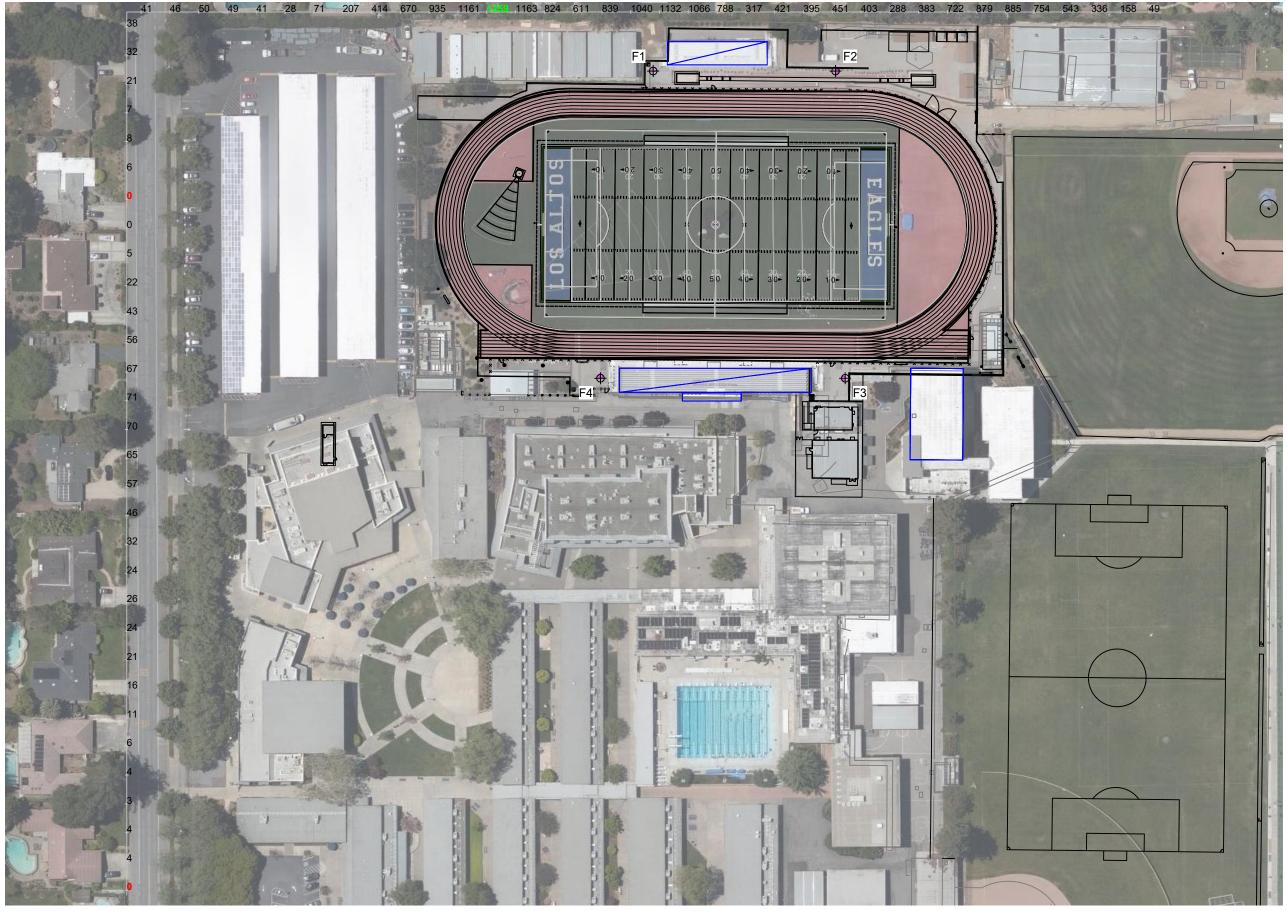
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



Los Altos, CA

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

ILLUMINATION SUMMARY					
CANDELA (PER FIXTURE)					
Entire Grid					
Scan Average:	301.5890				
Maximum:	1258.74				
Minimum:	0.00				
No. of Points:	67				
LUMINAIRE INFORMATIO	N				
Color / CRI:	5700K - 75 CF	RI			
Luminaire Output:	89,600 / 160,	000 / 52,000 lu	mens		
No. of Luminaires:	40				
Total Load:	tal Load: 44.96 kW				
		Lum	en Maintenance		
Luminaire Type	L90 hrs	L80 hrs	L70 hrs		
TLC-LED-900	>81,000	>81,000	>81,000		

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

Reported per TM-21-11. See luminaire datasheet for details.

>81,000

>81,000

>81,000 >81,000 >81,000

TLC-LED-1500

TLC-BT-575

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

0|8>/ 0 2⊳

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

Los Altos HS Football

Los Altos, CA

EQUIPMENT LAYOUT

INCLUDES:

· Bleachers · Football

Soccer Track

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					
1	F1	90'	-	90'	TLC-LED-1500	5					
				80'	TLC-LED-400	1					
				15.5'	TLC-BT-575	2					
				90'	TLC-LED-900	4					
1	F2	90'	-	90'	TLC-LED-900	4					
				80'	TLC-LED-400	1					
				15.5'	TLC-BT-575	2					
				80'	TLC-LED-900	1					
				90'	TLC-LED-1500	5					
1	F3	90'	-	90'	TLC-LED-900	1					
				80'	TLC-LED-400	1					
				15.5'	TLC-BT-575	2					
				80'	TLC-LED-900	1					
				90'	TLC-LED-1500	6					
1	F4	90'	-	90'	TLC-LED-900	1					
				80'	TLC-LED-400	1					
				15.5'	TLC-BT-575	2					
				90'	TLC-LED-1500	6					
4 TOTALS											

SINGLE LUMINAIRE AMPERAGE DRAW CHART										
Ballast Specifications (.90 min power factor)										
Single Phase Voltage	208	220 (60)	240 (60)	277	347 (60)	380	480 (60)			
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3			
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7			
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5			
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0			



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