Appendices

Appendix B Lighting Report

Appendices

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La Crescenta,CA

Lighting System

Pole / Fixture	Pole / Fixture Summary								
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit			
F1-F2	100'	100'	9	TLC-LED-1500	12.87 kW	Α			
		100'	1	TLC-LED-900	0.89 kW	Α			
		16'	2	TLC-BT-575	1.15 kW	Α			
F3-F4	100'	100'	8	TLC-LED-1500	11.44 kW	Α			
		100'	2	TLC-LED-900	1.78 kW	Α			
		16'	2	TLC-BT-575	1.15 kW	Α			
4			48		58.56 kW				

Circuit Summary							
Circuit	Description	Load	Fixture Qty				
Α	Football	58.56 kW	48				

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	34
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	6

Light Level Summary

Grid Name	Calculation Metric			Illumination			Circuits	Fixture Qty
Grid Name	Calculation Metric		Min	Max	Max/Min	Ave/Min	Circuits	Tixture Qty
Football	Horizontal Illuminance	51.8	37	59	1.61	1.40	Α	48
Residential Spill	Horizontal	0.22	0	0.77	0.00		Α	48
Residential Spill	Max Candela (by Fixture)	5626	0.05	14861	286028.50	112529.60	Α	48
Residential Spill	Max Vertical Illuminance Metric	0.39	0	1.27	0.00		Α	48
Soccer	Horizontal Illuminance	50.8	36	59	1.62	1.41	Α	48
Spill @ I-210	Horizontal	0.21	0	0.98	0.00		Α	48
Spill @ I-210	Max Candela (by Fixture)	13721	0	123924	0.00		Α	48
Spill @ I-210	Max Vertical Illuminance Metric	0.38	0	2.11	0.00		Α	48
Spill @ Mayfield Ave	Horizontal	0	0	0.03	0.00		Α	48
Spill @ Mayfield Ave	Max Candela (by Fixture)	656	0	3474	0.00		Α	48
Spill @ Mayfield Ave	Max Vertical Illuminance Metric	0.01	0	0.07	0.00		Α	48
Spill @ Ramsdell Ave	Horizontal	0	0	0.01	0.00		Α	48
Spill @ Ramsdell Ave	Max Candela (by Fixture)	349	0	966	0.00		Α	48
Spill @ Ramsdell Ave	Max Vertical Illuminance Metric	0.01	0	0.03	0.00		Α	48
Walking Track	Horizontal Illuminance	19.9	1	47	50.54	19.94	A	48

From Hometown to Professional

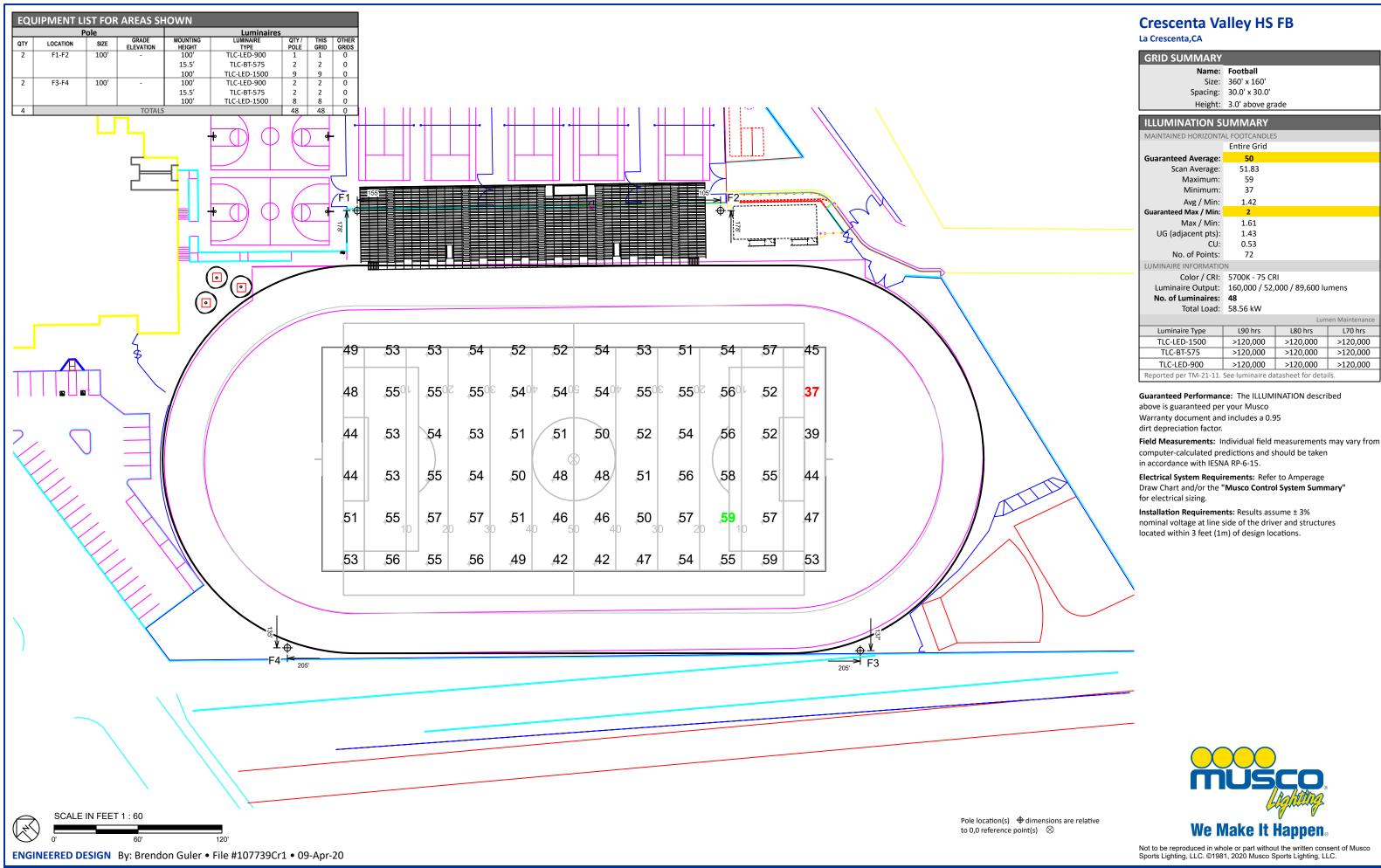




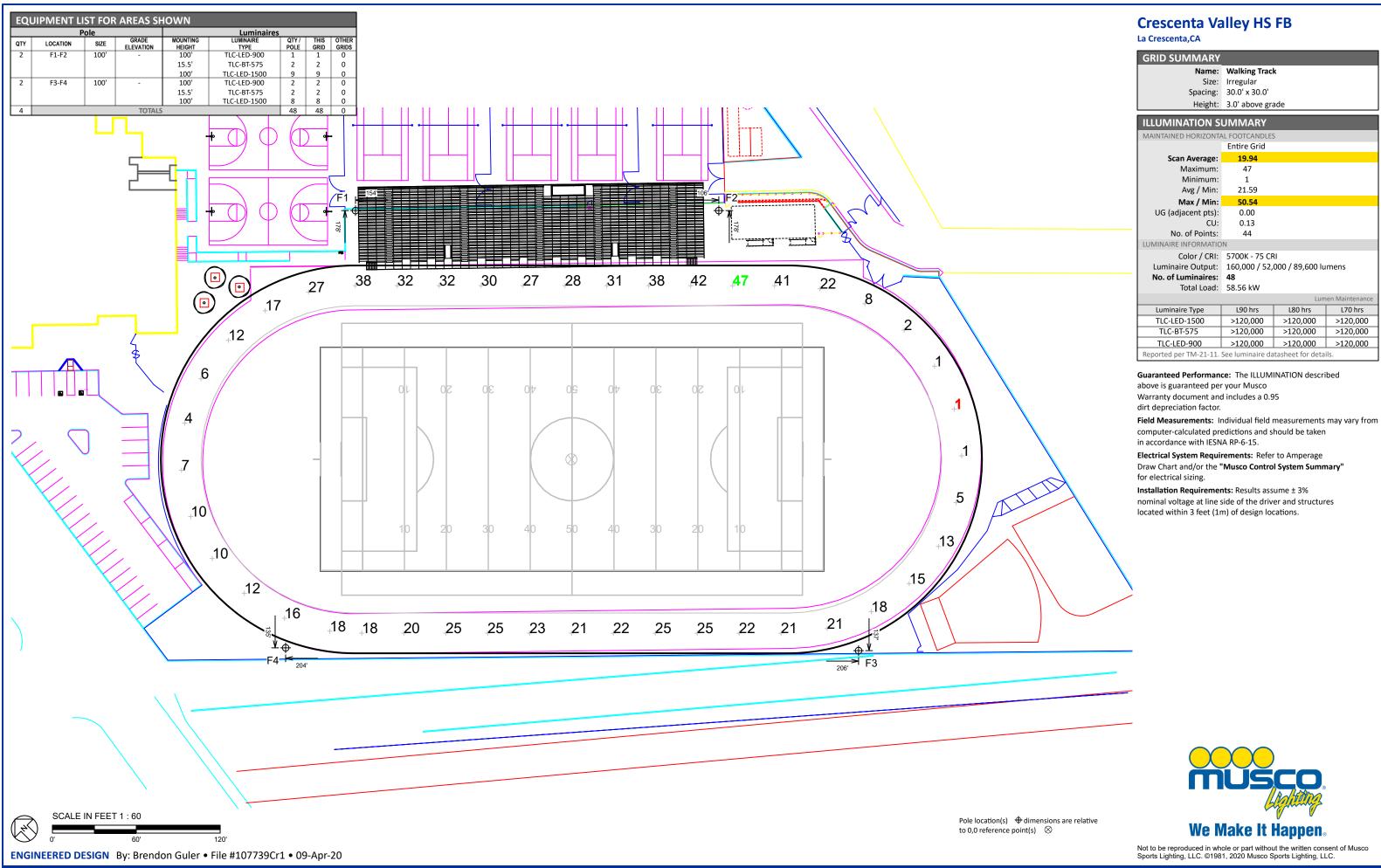




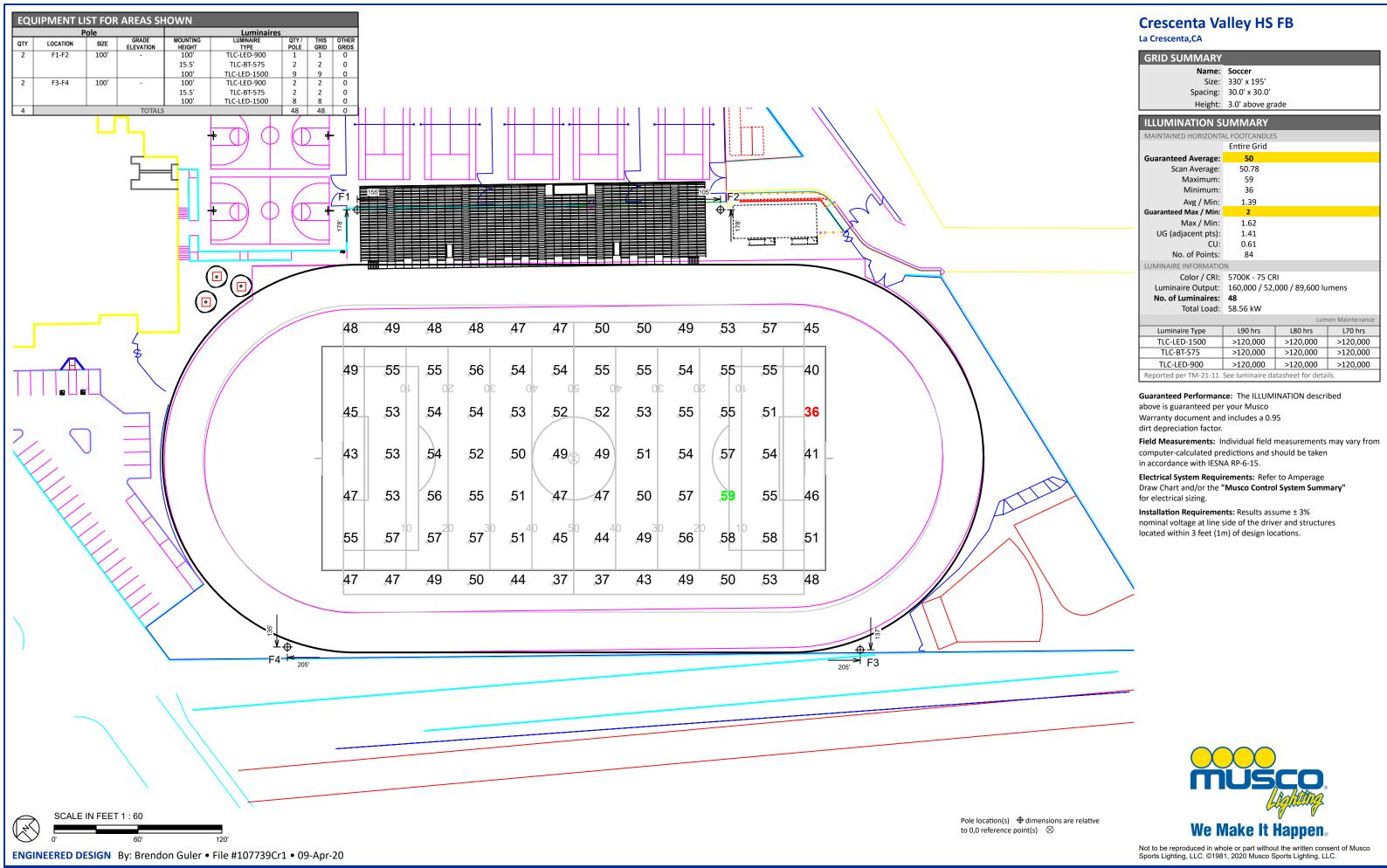




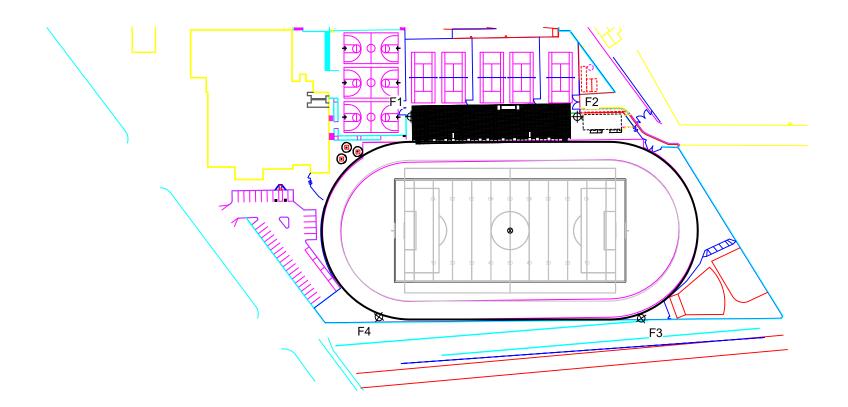
ILLUMINATION SUMMARY



ILLUMINATION SUMMARY



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	F1-F2	100'	-	100'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	2	2	0
				100'	TLC-LED-1500	9	9	0
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
				100'	TLC-LED-1500	8	8	0
4			TOTALS			48	48	0



Crescenta Valley HS FB La Crescenta,CA

GRID SUMMARY	
Name:	Spill @ Mayfield Ave
Spacing:	30.0'
Height:	-41.0' above grade

ILLUMINATION SUMMARY						
HORIZONTAL FOOTCANDLES						
	Entire Grid					
Scan Average:	0.0039					
Maximum:	0.03					
Minimum:	0.00					
No. of Points:	54					
LUMINAIRE INFORMATIO	N					
Color / CRI:	5700K - 75 CRI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens			
No. of Luminaires:	48					
Total Load:	58.56 kW					
		Lum	en Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs			
TLC-LED-1500	>120,000	>120,000	>120,000			
TLC-BT-575	>120,000	>120,000	>120,000			
TLC-LED-900	>120,000	>120,000	>120,000			
Reported per TM-21-11. See luminaire datasheet for details.						

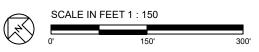
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty

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

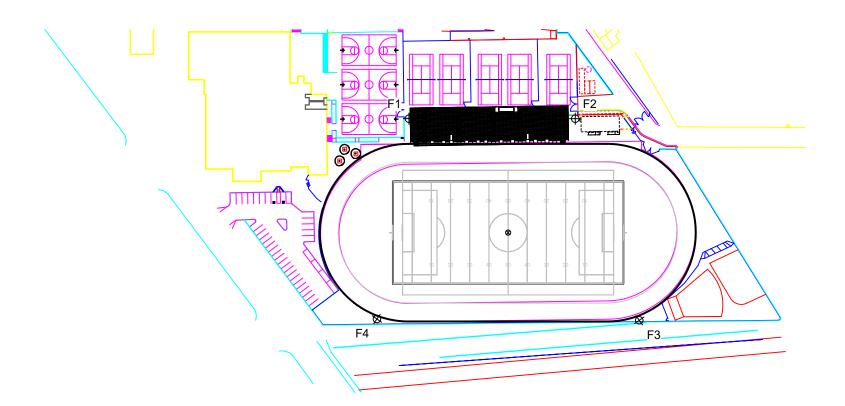
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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	F1-F2	100'	-	100'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	2	2	0
				100'	TLC-LED-1500	9	9	0
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
				100'	TLC-LED-1500	8	8	0
4	TOTALS					48	48	0



Crescenta Valley HS FB La Crescenta,CA

GRID SUMMARY	
Name:	Spill @ Mayfield Ave
Spacing:	30.0'
Height:	-41.0' above grade

ILLUMINATION SUMMARY						
MAX VERTICAL FOOTCANDLES						
	Entire Grid					
Scan Average:	0.0105					
Maximum:	0.07					
Minimum:	0.00					
No. of Points:	54					
LUMINAIRE INFORMATIO	N					
Color / CRI:	5700K - 75 CRI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens			
No. of Luminaires:	48					
Total Load:	58.56 kW					
		Lum	en Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs			
TLC-LED-1500	>120,000	>120,000	>120,000			
TLC-BT-575	>120,000	>120,000	>120,000			
TLC-LED-900	>120,000	>120,000	>120,000			
Reported per TM-21-11. See luminaire datasheet for details.						

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.

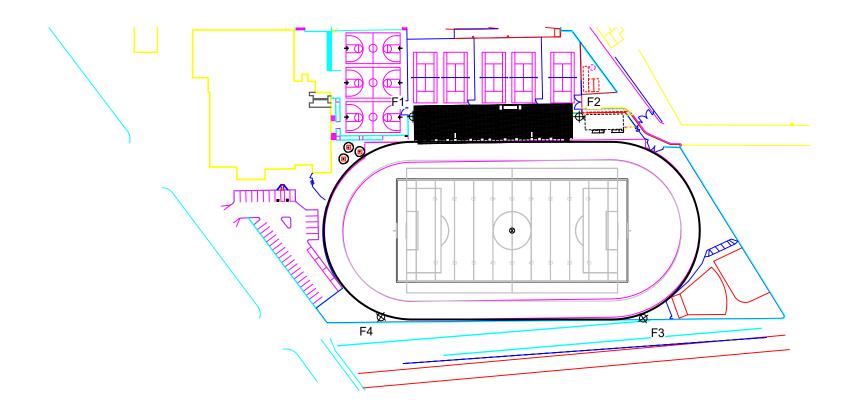
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



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

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	F1-F2	100'	-	100'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	9	9	0	
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	8	8	0	
4	TOTALS					48	48	0	





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

Crescenta Valley HS FB

La Crescenta,CA

GRID SUMMARY	
Name:	Spill @ Mayfield Ave
Spacing:	30.0'
Height:	-41.0' above grade

ILLUMINATION SUMMARY							
CANDELA (PER FIXTURE)							
	Entire Grid						
Scan Average:	655.7317						
Maximum:	3473.55						
Minimum:	0.00						
No. of Points:	54						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
Reported per TM-21-11.	See luminaire da	tasheet for deta	ils.				

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.

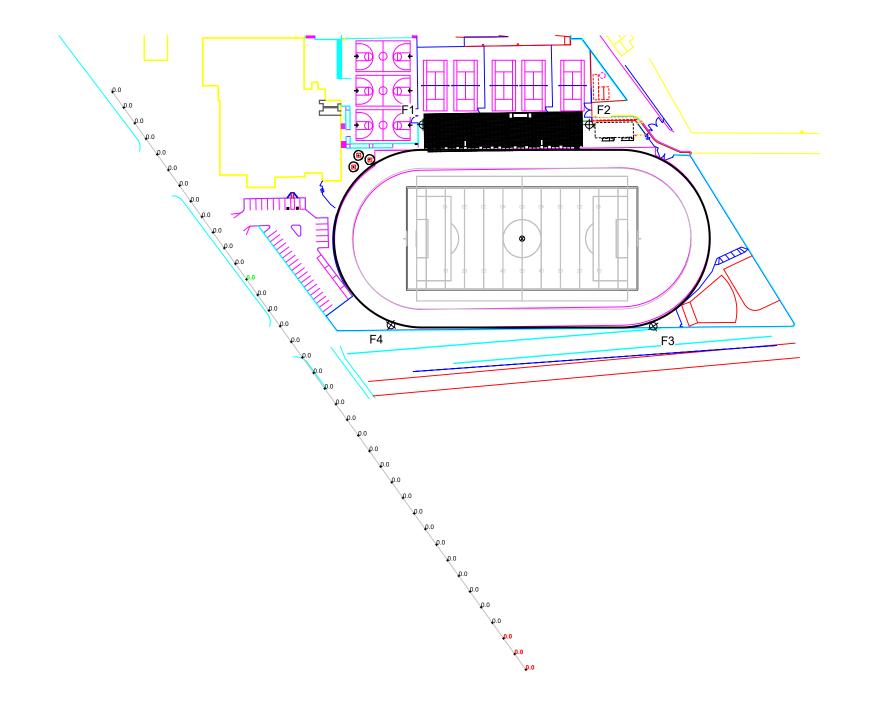
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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SCALE IN FEET 1:150

EQUIPMENT LIST FOR AREAS SHOWN									
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	9	9	0	
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	8	8	0	
4			TOTALS			48	48	0	



SCALE IN FEET 1 : 150 0' 150' 300

ENGINEERED DESIGN By: Brendon Guler • File #107739Cr1 • 09-Apr-20

to 0,0 ref

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

Crescenta Valley HS FB

La Crescenta,CA

GRID SUMMARY	
Name:	Spill @ Ramsdell Ave
Spacing:	30.0'
Height:	-14.0' above grade

ILLUMINATION SUMMARY							
HORIZONTAL FOOTCANDLES							
	Entire Grid	Entire Grid					
Scan Average:	0.0023						
Maximum:	0.01						
Minimum:	0.00						
No. of Points:	38						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
Reported per TM-21-11.	See luminaire da	tasheet for deta	ils.				

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

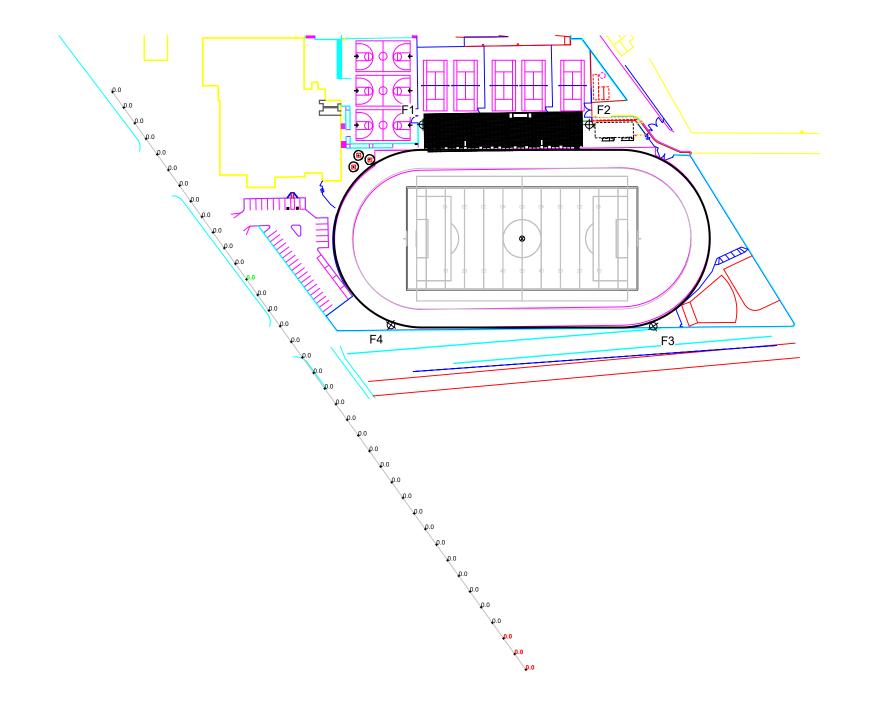
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 LIST FOR AREAS SHOWN									
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	9	9	0	
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	8	8	0	
4			TOTALS			48	48	0	



SCALE IN FEET 1 : 150 0' 150' 300'

ENGINEERED DESIGN By: Brendon Guler • File #107739Cr1 • 09-Apr-20

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

Crescenta Valley HS FB

La Crescenta,CA

Rame: Spacing: 30.0'
Height: -14.0' above grade

ILLUMINATION SUMMARY							
MAX VERTICAL FOOTCANDLES							
	Entire Grid						
Scan Average:	0.0067						
Maximum:	0.03						
Minimum:	0.00						
No. of Points:	38						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	imens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	nen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
Reported per TM-21-11.	See luminaire da	tasheet for deta	ils.				

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

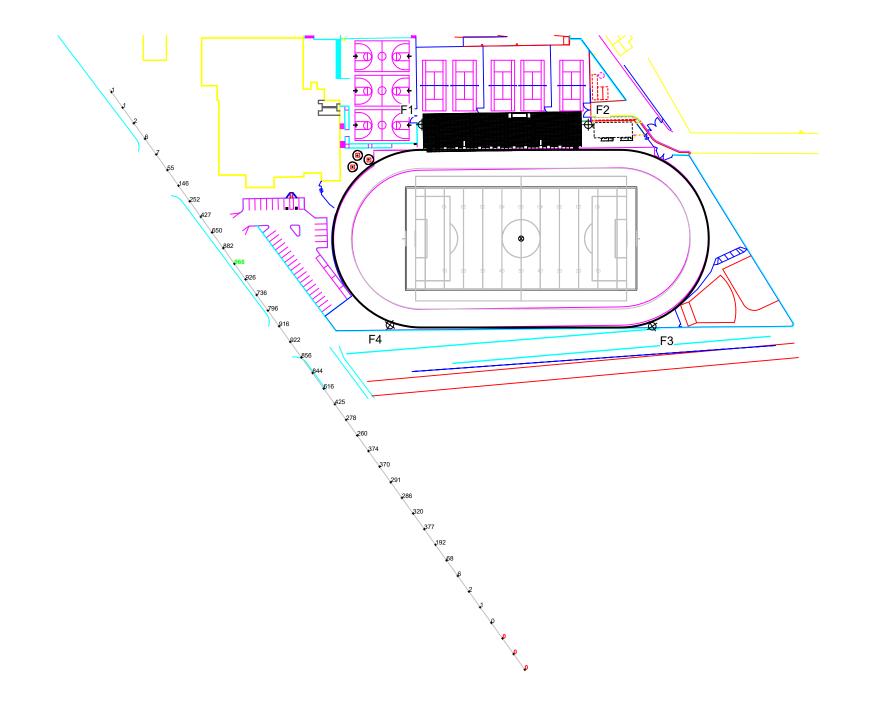
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 LIST FOR AREAS SHOWN									
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	9	9	0	
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	8	8	0	
4			TOTALS			48	48	0	





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

Crescenta Valley HS FB

La Crescenta,CA

Rame: Spacing: 30.0'
Height: -14.0' above grade

ILLUMINATION SUMMARY							
CANDELA (PER FIXTURE)							
	Entire Grid	Entire Grid					
Scan Average:	348.9518						
Maximum:	966.03						
Minimum:	0.00						
No. of Points:	38						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
Reported per TM-21-11.	See luminaire da	tasheet for deta	ils.				

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

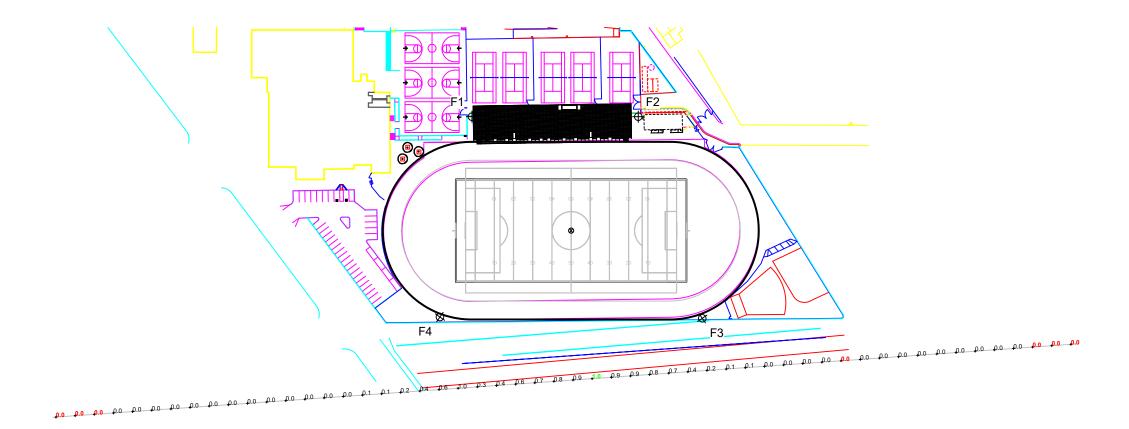
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	9	9	0		
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	8	8	0		
4	4 TOTALS					48	48	0		



La Crescenta,CA



ILLUIVIINATION SUIVIIVIARY							
HORIZONTAL FOOTCANDLES							
	Entire Grid						
Scan Average:	0.2103						
Maximum:	0.98						
Minimum:	0.00						
No. of Points:	54						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	રા					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
Reported per TM-21-11. See luminaire datasheet for details.							

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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.

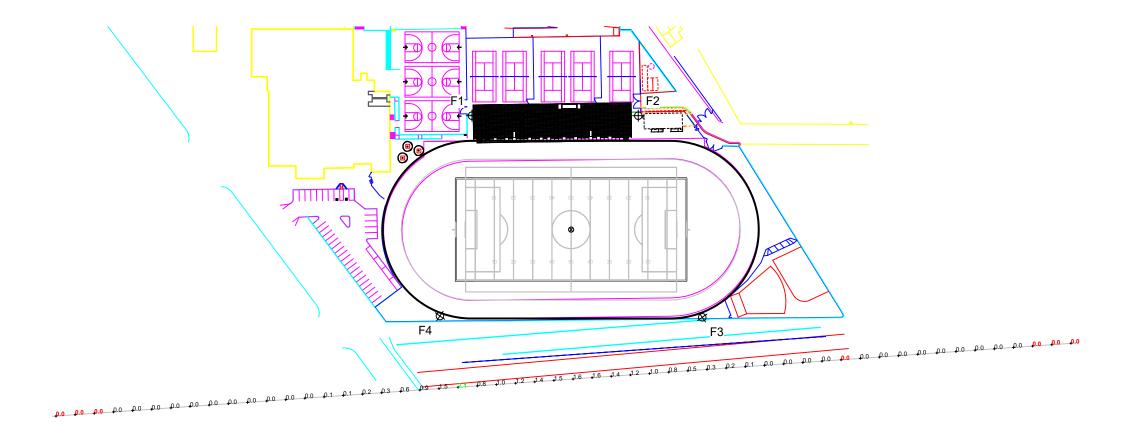
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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



EQI	EQUIPMENT LIST FOR AREAS SHOWN										
	Pole Luminaires										
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS			
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0			
				15.5'	TLC-BT-575	2	2	0			
				100'	TLC-LED-1500	9	9	0			
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0			
				15.5'	TLC-BT-575	2	2	0			
				100'	TLC-LED-1500	8	8	0			
4			TOTALS			48	48	0			



La Crescenta,CA



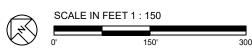
ILLUMINATION SUMMARY								
MAX VERTICAL FOOTCANDLES								
	Entire Grid							
Scan Average:	0.3811							
Maximum:	2.11							
Minimum:	0.00							
No. of Points:	54							
LUMINAIRE INFORMATIO	N							
Color / CRI:	5700K - 75 CF	RI						
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens					
No. of Luminaires:	48							
Total Load:	58.56 kW							
		Lum	en Maintenance					
Luminaire Type	L90 hrs	L80 hrs	L70 hrs					
TLC-LED-1500	>120,000	>120,000	>120,000					
TLC-BT-575	>120,000	>120,000	>120,000					
TLC-LED-900	>120,000	>120,000	>120,000					
Reported per TM-21-11.	See luminaire da	tasheet for deta	ils.					

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.

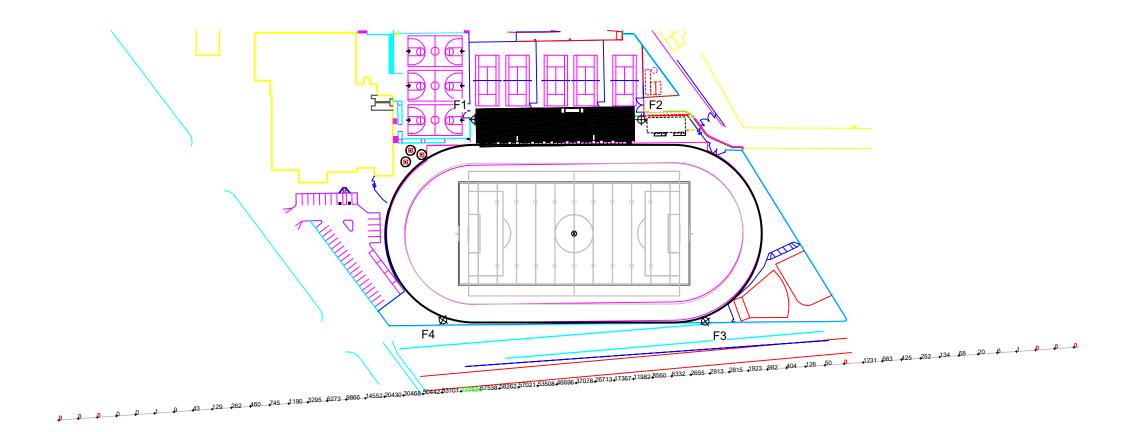
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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



EQUIPMENT LIST FOR AREAS SHOWN										
Pole					Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	9	9	0		
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	8	8	0		
4	4 TOTALS					48	48	0		



La Crescenta,CA



ILLUMINATION SUMMARY							
CANDELA (PER FIXTURE)							
	Entire Grid						
Scan Average:	13721.0400						
Maximum:	123923.63						
Minimum:	0.00						
No. of Points:	54						
LUMINAIRE INFORMATIO	LUMINAIRE INFORMATION						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
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.

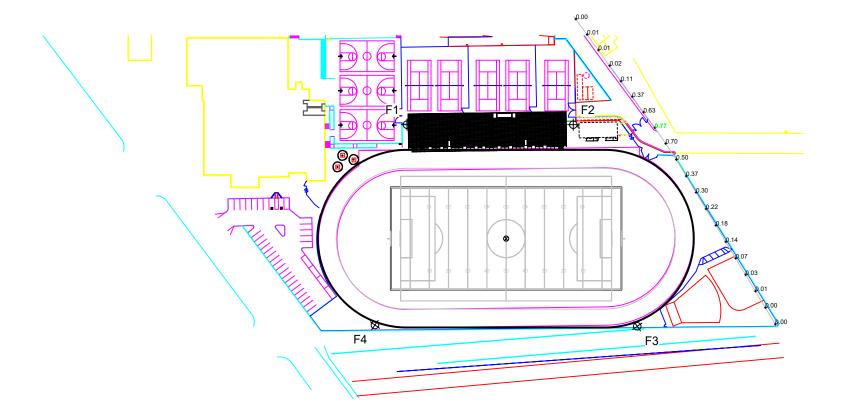
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



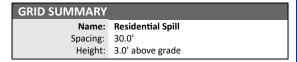
Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes



EQUIPMENT LIST FOR AREAS SHOWN										
Pole					Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	9	9	0		
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	8	8	0		
4	TOTALS					48	48	0		



La Crescenta,CA



ILLUMINATION SUMMARY							
HORIZONTAL FOOTCANDLES							
	Entire Grid						
Scan Average:	0.2217						
Maximum:	0.77						
Minimum:	0.00	0.00					
No. of Points:	20	20					
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	imens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	nen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
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.

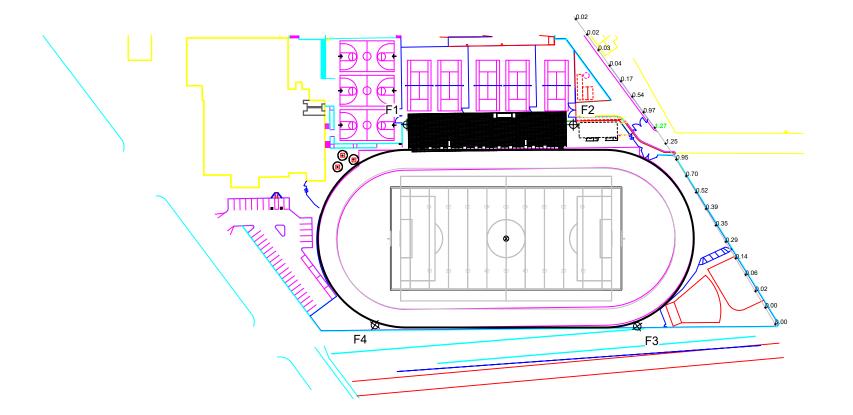
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



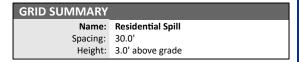
Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes



EQUIPMENT LIST FOR AREAS SHOWN										
Pole					Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS		
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	9	9	0		
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	2	2	0		
				100'	TLC-LED-1500	8	8	0		
4	TOTALS					48	48	0		



La Crescenta,CA



ILLUMINATION SUMMARY							
MAX VERTICAL FOOTCANDLES							
	Entire Grid						
Scan Average:	0.3865						
Maximum:	1.27						
Minimum:	0.00	0.00					
No. of Points:	20						
LUMINAIRE INFORMATIO	N						
Color / CRI:	5700K - 75 CF	RI					
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens				
No. of Luminaires:	48						
Total Load:	58.56 kW						
		Lum	en Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs				
TLC-LED-1500	>120,000	>120,000	>120,000				
TLC-BT-575	>120,000	>120,000	>120,000				
TLC-LED-900	>120,000	>120,000	>120,000				
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.

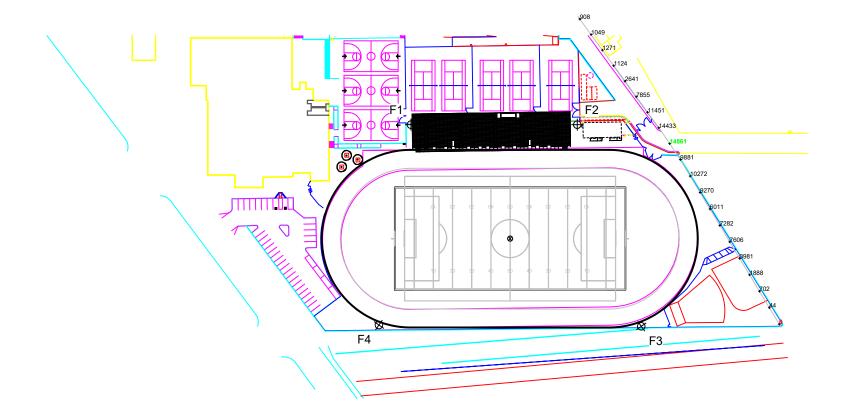
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

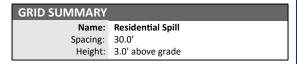




EQUIPMENT LIST FOR AREAS SHOWN									
Pole					Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	100'	-	100'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	9	9	0	
2	F3-F4	100'	-	100'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				100'	TLC-LED-1500	8	8	0	
4	4 TOTALS					48	48	0	



La Crescenta,CA



ILLUMINATION SUMMARY								
CANDELA (PER FIXTURE)								
	Entire Grid							
Scan Average:	5626.4810							
Maximum:	14861.49							
Minimum:	0.05							
No. of Points:	20							
LUMINAIRE INFORMATIO	N							
Color / CRI:	5700K - 75 CF	RI						
Luminaire Output:	160,000 / 52,	000 / 89,600 lu	mens					
No. of Luminaires:	48							
Total Load:	58.56 kW							
		Lum	en Maintenance					
Luminaire Type	L90 hrs	L80 hrs	L70 hrs					
TLC-LED-1500	>120,000	>120,000	>120,000					
TLC-BT-575	>120,000	>120,000	>120,000					
TLC-LED-900	>120,000	>120,000	>120,000					
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.



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



Walking Track/ Soccer 330' x 195'

Crescenta Valley HS FB

La Crescenta,CA

EQUIPMENT LAYOUT

INCLUDES: · Football

·Soccer

· Walking 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.

EQ	EQUIPMENT LIST FOR AREAS SHOWN									
Pole					Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE				
2	F1-F2	100'	-	100'	TLC-LED-900	1				
				15.5'	TLC-BT-575	2				
				100'	TLC-LED-1500	9				
2	F3-F4	100'	-	100'	TLC-LED-900	2				
				15.5'	TLC-BT-575	2				
				100'	TLC-LED-1500	8				
4 TOTALS						48				

SINGLE LUMINAIRE AMPERAGE DRAW CHART									
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)								
Single Phase Voltage	208	220	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)		
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-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3		



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

