

Appendix C Lighting Plans

Appendices

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La Quinta High School Athletic Fields

Westminster, CA

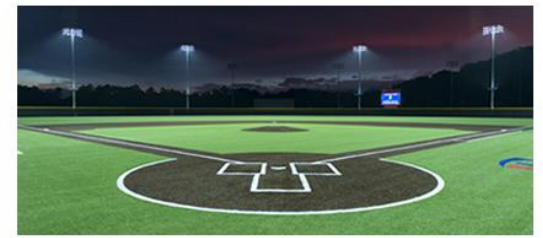
Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	3	TLC-LED-1200	3.51 kW	A
		70'	2	TLC-LED-900	1.78 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A3-A4	60'	60'	3	TLC-LED-1200	3.51 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		70'	4	TLC-LED-1500	5.72 kW	A
B1	70'	70'	2	TLC-LED-900	1.78 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		80'	10	TLC-LED-1500	14.30 kW	C
B2	80'	80'	5	TLC-LED-1500	7.15 kW	A
		80'	1	TLC-LED-900	0.89 kW	A
		80'	1	TLC-LED-900	0.89 kW	C
		16'	2	TLC-BT-575	1.15 kW	C
		16'	1	TLC-BT-575	0.58 kW	A
B3	70'	70'	5	TLC-LED-1500	7.15 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
B4	90'	90'	5	TLC-LED-1500	7.15 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		90'	5	TLC-LED-1500	7.15 kW	D
C1-C2	70'	70'	5	TLC-LED-1500	7.15 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
F2-F4	80'	80'	10	TLC-LED-1500	14.30 kW	C
		80'	1	TLC-LED-900	0.89 kW	C
		16'	2	TLC-BT-575	1.15 kW	C
S1	90'	90'	5	TLC-LED-1500	7.15 kW	D
S3-S4	70'	70'	4	TLC-LED-1500	5.72 kW	D
		70'	1	TLC-LED-900	0.89 kW	D
T1-T2	50'	50'	1	TLC-LED-600	0.58 kW	E
		50'	2	TLC-LED-900	1.78 kW	E
T3	50'	50'	1	TLC-LED-600	0.58 kW	E
		50'	1	TLC-LED-600	0.58 kW	F
		50'	2	TLC-LED-900	1.78 kW	E
		50'	2	TLC-LED-900	1.78 kW	F
		50'	1	TLC-LED-600	0.58 kW	F
T4	50'	50'	1	TLC-LED-600	0.58 kW	E
		50'	1	TLC-LED-600	0.58 kW	E
		50'	2	TLC-LED-900	1.78 kW	F
		50'	2	TLC-LED-900	1.78 kW	E
T5-T6	50'	50'	1	TLC-LED-600	0.58 kW	F
		50'	2	TLC-LED-900	1.78 kW	F
22			156		180.40 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Baseball	45.02 kW	40
B	Softball	23.62 kW	20
C	Football	65.36 kW	52
D	Soccer	27.52 kW	20
E	North Tennis	9.44 kW	12
F	South Tennis	9.44 kW	12

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	29
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	12
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	87
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	20
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	8

From Hometown to Professional



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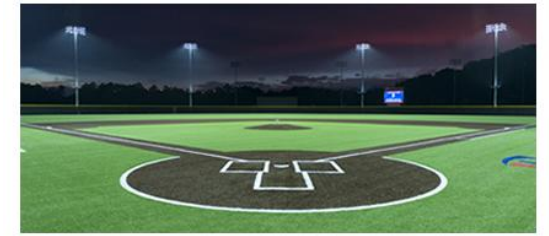
La Quinta High School Athletic Fields

Westminster, CA

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Baseball (Infield)	Horizontal Illuminance	50.7	36	63	1.78	1.41	A	40
Baseball (Outfield)	Horizontal Illuminance	31.9	19	47	2.44	1.68	A	40
Football	Horizontal Illuminance	52.3	41	60	1.44	1.28	C	52
North Tennis	Horizontal Illuminance	54.3	46	63	1.35	1.18	E	12
Property Line Spill	Horizontal	0.67	0	6.13	0.00		A,B,C,D,E, F	156
Property Line Spill	Max Candela (by Fixture)	6562	0	35535	0.00		A,B,C,D,E, F	156
Property Line Spill	Max Vertical Illuminance Metric	0.84	0	6.91	0.00		A,B,C,D,E, F	156
SB LF Bull Pen	Horizontal	31.7	28	36	1.30	1.13	B	20
SB RF Bull Pen	Horizontal	32.2	26	35	1.31	1.24	B	20
Soccer	Horizontal Illuminance	31.3	25	36	1.44	1.25	D	20
Softball (Infield)	Horizontal Illuminance	52.7	38	63	1.66	1.39	B	20
Softball (Outfield)	Horizontal Illuminance	30.2	18	43	2.42	1.68	B	20
South Tennis	Horizontal Illuminance	54.9	46	64	1.39	1.19	F	12
Track	Horizontal Illuminance	25.8	2	48	20.31	12.89	C	52

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EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	70'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	2	2	0
1	B1	70'	-	70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	4	4	0
				80'	TLC-LED-1500	5/10*	5	10
1	B2	80'	-	15.5'	TLC-BT-575	2/1*	1	2
				80'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	2	0
2	C1-C2	70'	-	15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	5	5	0
6	TOTALS					53	40	13

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

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	Baseball
Size:	Irregular 315' / 353' / 313'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

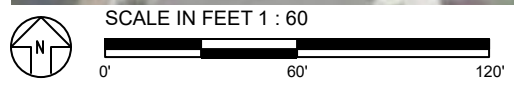
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.70	31.86
Maximum:	63	47
Minimum:	36	19
Avg / Min:	1.42	1.66
Guaranteed Max / Min:	2	2.5
Max / Min:	1.78	2.44
UG (adjacent pts):	1.47	1.52
CU:	0.74	
No. of Points:	25	87
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	40	
Total Load:	45.02 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) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-1200	3	3	0	
1	B3	70'	-	15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1500	5	5	0	
1	B4	90'	-	15.5'	TLC-BT-575	1	1	0	
				90'	TLC-LED-1500	5/5*	5	5	
4	TOTALS					25	20	5	

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

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	Softball
Size:	Irregular 214' / 224' / 202'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

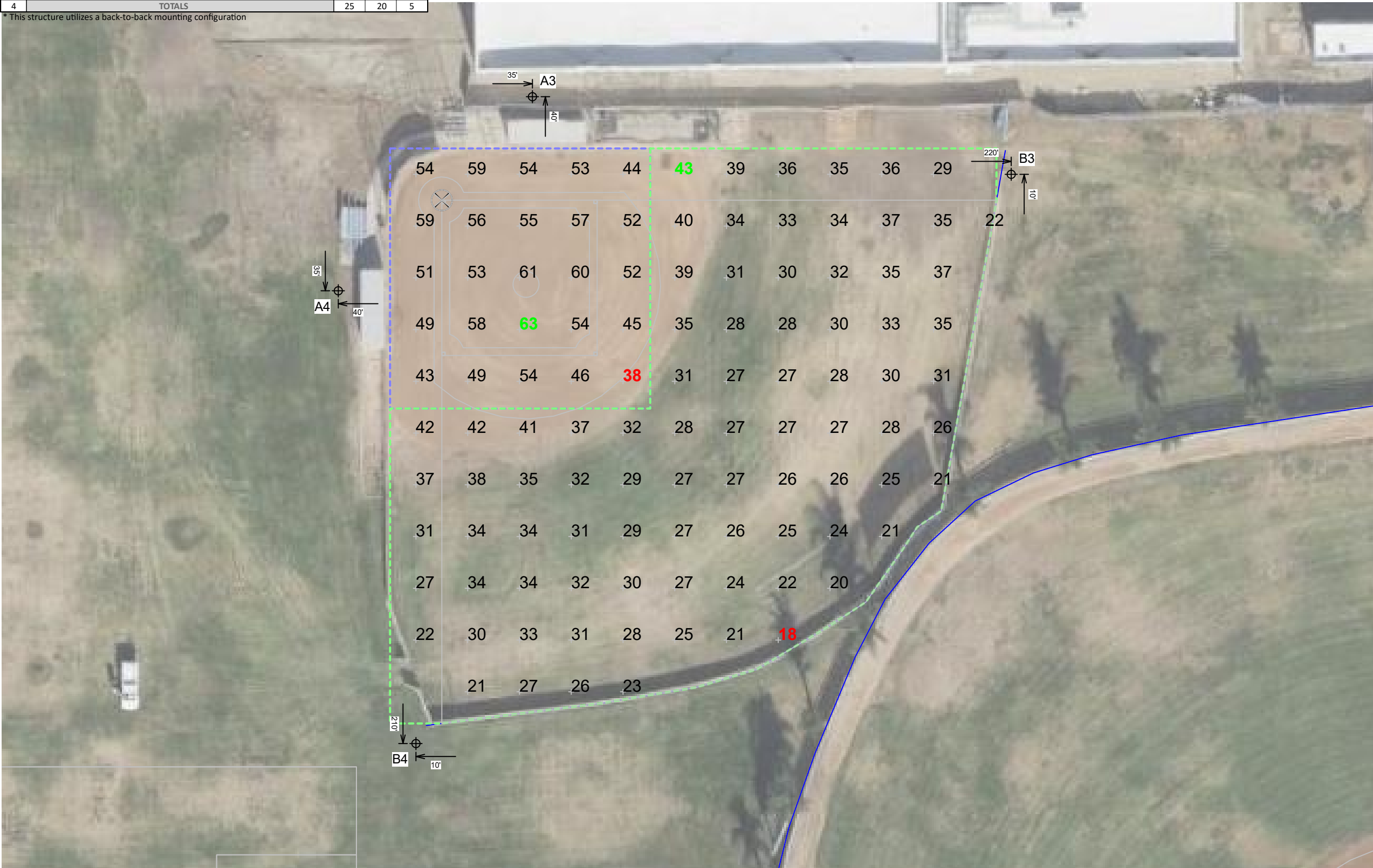
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	52.66	30.17
Maximum:	63	43
Minimum:	38	18
Avg / Min:	1.40	1.71
Guaranteed Max / Min:	2	2.5
Max / Min:	1.66	2.42
UG (adjacent pts):	1.22	1.58
CU:	0.60	
No. of Points:	25	84
LUMINAIRE INFORMATION		
Applied Circuits:	B	
No. of Luminaires:	20	
Total Load:	23.62 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) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗



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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1200	3	3	0
1	B3	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	5	5	0
1	B4	90'	-	15.5'	TLC-BT-575	1	1	0
				90'	TLC-LED-1500	5/5*	5	5
4	TOTALS					25	20	5

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

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	SB LF Bull Pen
Size:	Irregular 214' / 224' / 202'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	31.65
Maximum:	36
Minimum:	28
Avg / Min:	1.14
Max / Min:	1.30
UG (adjacent pts):	1.08
CU:	0.01
No. of Points:	6
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	20
Total Load:	23.62 kW

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

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

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

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



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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1200	3	3	0
1	B3	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	5	5	0
1	B4	90'	-	15.5'	TLC-BT-575	1	1	0
				90'	TLC-LED-1500	5/5*	5	5
4	TOTALS					25	20	5

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

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	SB RF Bull Pen
Size:	Irregular 214' / 224' / 202'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

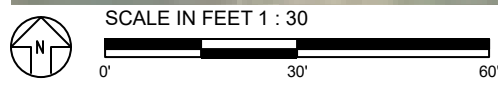
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	32.21
Maximum:	35
Minimum:	26
Avg / Min:	1.22
Max / Min:	1.31
UG (adjacent pts):	1.16
CU:	0.01
No. of Points:	6
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	20
Total Load:	23.62 kW

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

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

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

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



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EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	B2	80'	0'	80'	TLC-LED-1500	5/10*	10	5
				15.48'	TLC-BT-575	2/1*	2	1
				80'	TLC-LED-900	1/1*	1	1
3	F2-F4	80'	-	80'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
				TOTALS				

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

La Quinta High School Athletic Fields
Westminster, CA

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

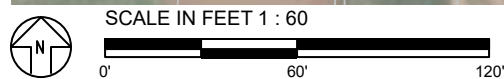
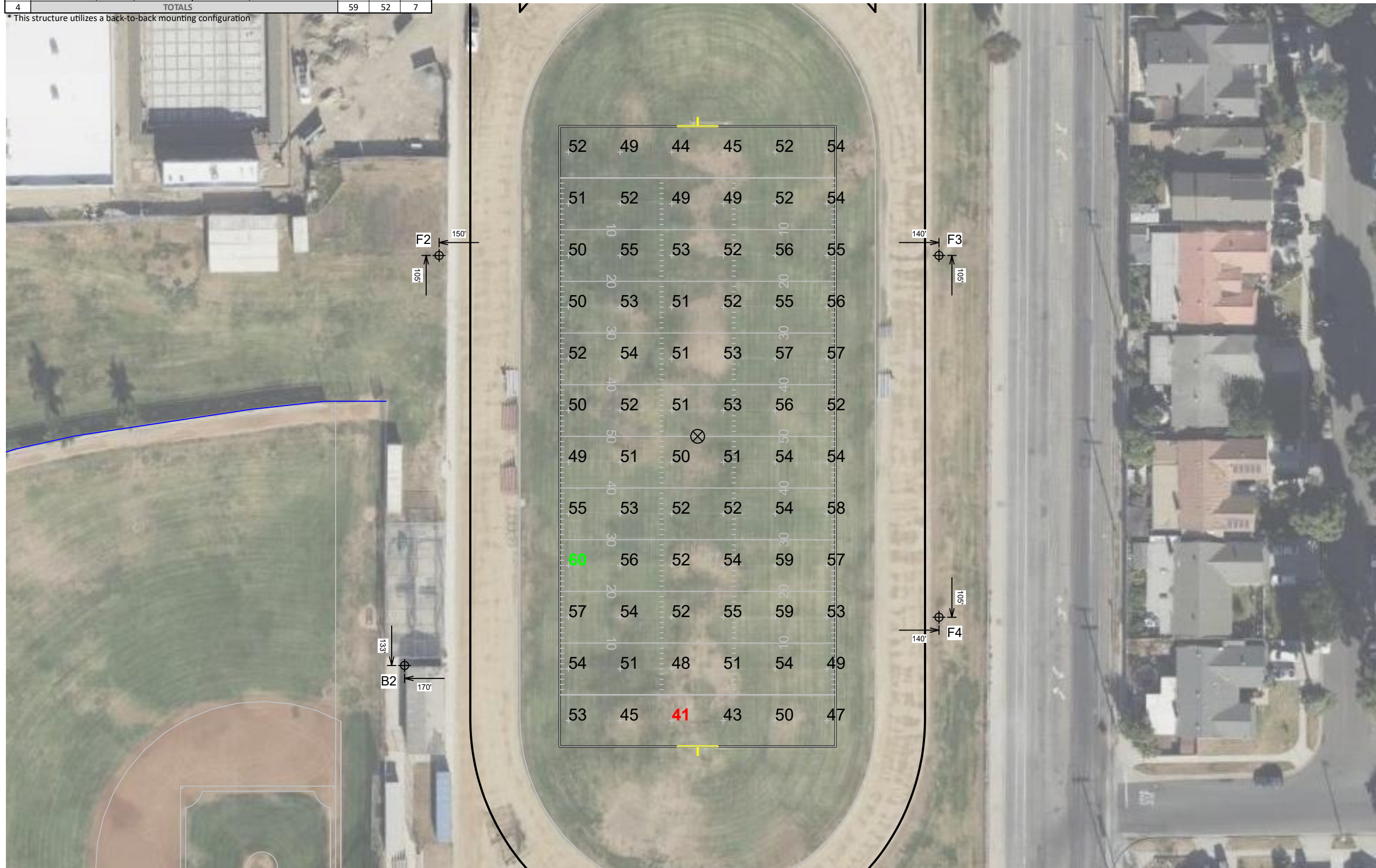
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	52.34
Maximum:	60
Minimum:	41
Avg / Min:	1.26
Guaranteed Max / Min:	2
Max / Min:	1.44
UG (adjacent pts):	1.17
CU:	0.49
No. of Points:	72
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	52
Total Load:	65.36 kW

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

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

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

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



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EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	B2	80'	-	80'	TLC-LED-1500	5/10*	10	5
				15.5'	TLC-BT-575	2/1*	2	1
				80'	TLC-LED-900	1/1*	1	1
3	F2-F4	80'	0'	80'	TLC-LED-900	1	1	0
				15.52'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
4	TOTALS					59	52	7

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



La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	Track
Size:	Irregular
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

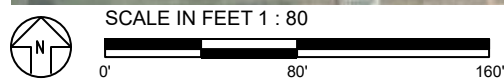
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	25.78
Maximum:	48
Minimum:	2
Avg / Min:	10.90
Max / Min:	20.31
UG (adjacent pts):	0.00
CU:	0.16
No. of Points:	48
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	52
Total Load:	65.36 kW

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



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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	B4	90'	-	15.5'	TLC-BT-575	1	0	1
				90'	TLC-LED-1500	5/5*	5	5
1	S1	90'	-	90'	TLC-LED-1500	5	5	0
1	S3	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-900	1	1	0
1	S4	70'	-	70'	TLC-LED-900	1	1	0
				70'	TLC-LED-1500	4	4	0
4	TOTALS					26	20	6

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

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	Soccer
Size:	330' x 200'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

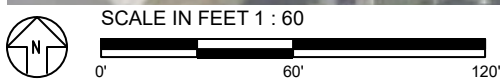
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	31.26
Maximum:	36
Minimum:	25
Avg / Min:	1.24
Guaranteed Max / Min:	2.5
Max / Min:	1.44
UG (adjacent pts):	1.26
CU:	0.73
No. of Points:	77
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	20
Total Load:	27.52 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) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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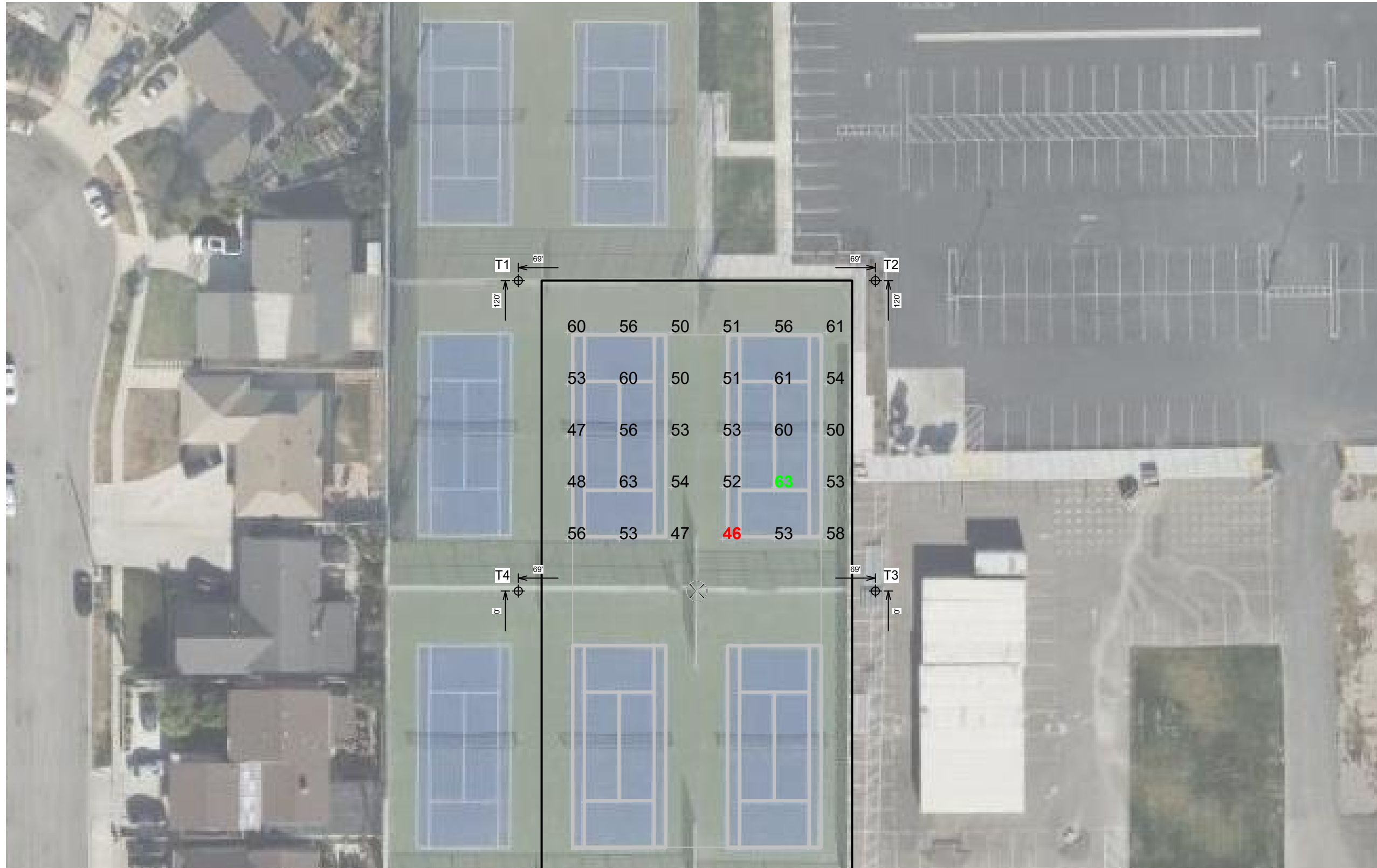
EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T1-T2	50'	-	50'	TLC-LED-600	1	1	0
				50'	TLC-LED-900	2	2	0
2	T3-T4	50'	-	50'	TLC-LED-600	2	1	1
				50'	TLC-LED-900	4	2	2
4	TOTALS					18	12	6

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	North Tennis
Size:	4 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	54.31
Maximum:	63
Minimum:	46
Avg / Min:	1.17
Guaranteed Max / Min:	2
Max / Min:	1.35
UG (adjacent pts):	0.00
CU:	0.69
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	12
Total Load:	9.44 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) ⓧ dimensions are relative to 0,0 reference point(s) ⊗



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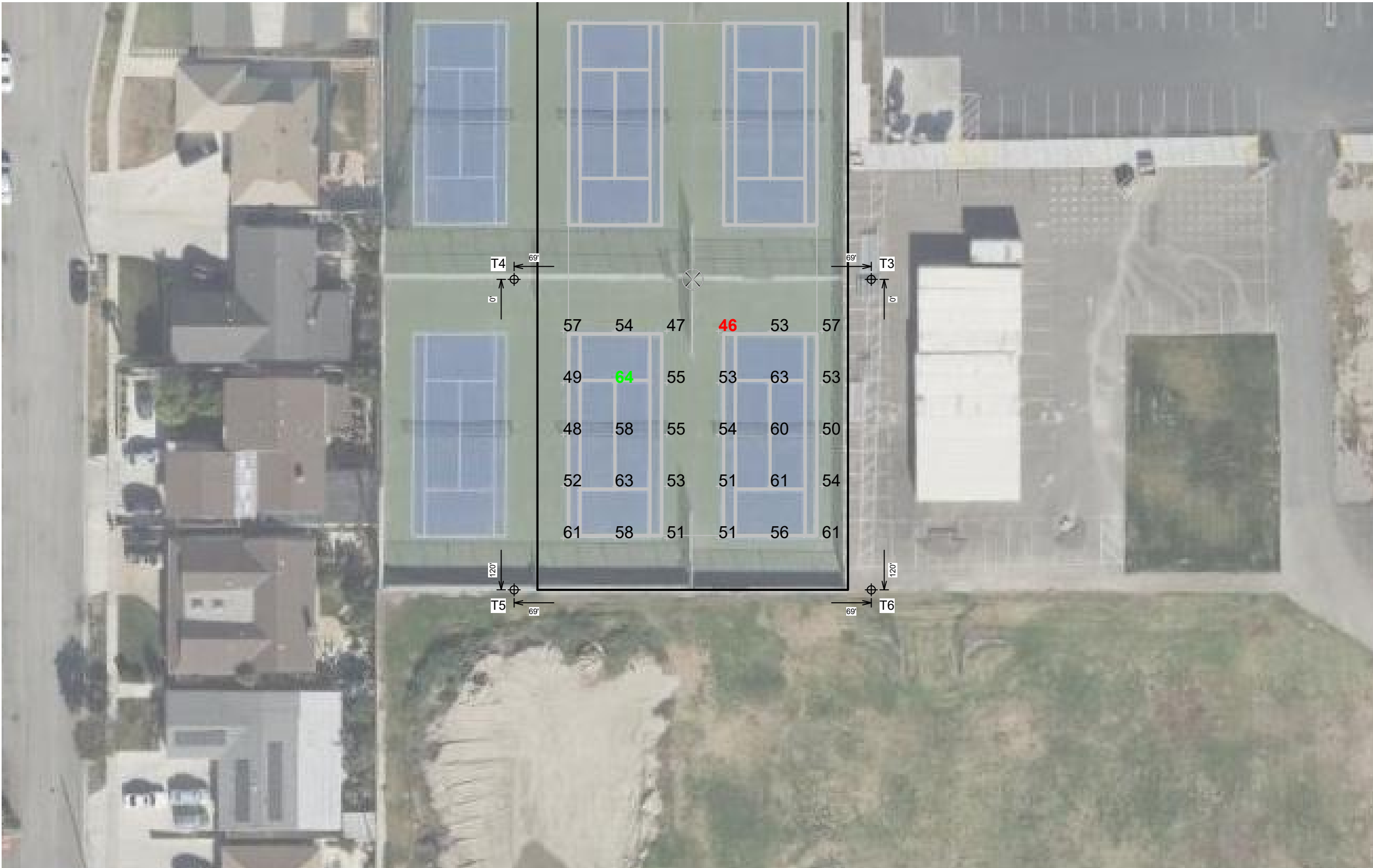
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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T3-T4	50'	-	50'	TLC-LED-600	2	1	1
				50'	TLC-LED-900	4	2	2
2	T5-T6	50'	-	50'	TLC-LED-600	1	1	0
				50'	TLC-LED-900	2	2	0
4	TOTALS					18	12	6

La Quinta High School Athletic Fields
Westminster, CA

GRID SUMMARY	
Name:	South Tennis
Size:	4 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	54.90
Maximum:	64
Minimum:	46
Avg / Min:	1.19
Guaranteed Max / Min:	2
Max / Min:	1.39
UG (adjacent pts):	0.00
CU:	0.70
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	12
Total Load:	9.44 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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Pole location(s) Ⓧ dimensions are relative to 0,0 reference point(s) ⊗



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

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.6734
Maximum:	6.13
Minimum:	0.00
No. of Points:	133
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	156
Total Load:	180.4 kW

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

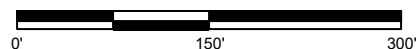
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



SCALE IN FEET 1 : 150



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



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

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.8418
Maximum:	6.91
Minimum:	0.00
No. of Points:	133
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	156
Total Load:	180.4 kW

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

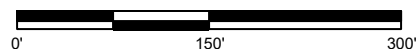
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



SCALE IN FEET 1 : 150



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



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

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 6561.7583
Maximum:	35534.53
Minimum:	0.00
No. of Points:	133
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	156
Total Load:	180.4 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.



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



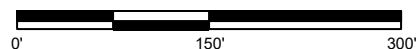
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ILLUMINATION SUMMARY



SCALE IN FEET 1 : 150



EQUIPMENT LAYOUT

INCLUDES:

- Baseball
- Football
- Soccer
- Softball
- Tennis
- Track

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

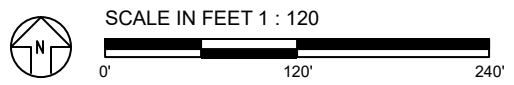
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	A1-A2	70'	-	70'	TLC-LED-1200	3
				15.5'	TLC-BT-575	1
				70'	TLC-LED-900	2
2	A3-A4	60'	-	15.5'	TLC-BT-575	1
				60'	TLC-LED-1200	3
				70'	TLC-LED-900	2
1	B1	70'	-	70'	TLC-LED-900	2
				15.5'	TLC-BT-575	1
				70'	TLC-LED-1500	4
1	B2	80'	-	80'	TLC-LED-1500	5/10*
				15.5'	TLC-BT-575	2/1*
				80'	TLC-LED-900	1/1*
1	B3	70'	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-1500	5
				70'	TLC-LED-1500	5
1	B4	90'	-	15.5'	TLC-BT-575	1
				90'	TLC-LED-1500	5/5*
				70'	TLC-LED-1500	2
2	C1-C2	70'	-	15.5'	TLC-BT-575	2
				70'	TLC-LED-1500	5
				70'	TLC-LED-900	1
3	F2-F4	80'	-	80'	TLC-LED-900	1
				15.5'	TLC-BT-575	2
				80'	TLC-LED-1500	10
1	S1	90'	-	90'	TLC-LED-1500	5
1	S3	70'	-	70'	TLC-LED-1500	4
1	S4	70'	-	70'	TLC-LED-900	1
4	T1-T2	50'	-	50'	TLC-LED-900	2
				50'	TLC-LED-600	1
				50'	TLC-LED-600	2
2	T3-T4	50'	-	50'	TLC-LED-600	2
				50'	TLC-LED-900	4
				TOTALS		
22						156

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

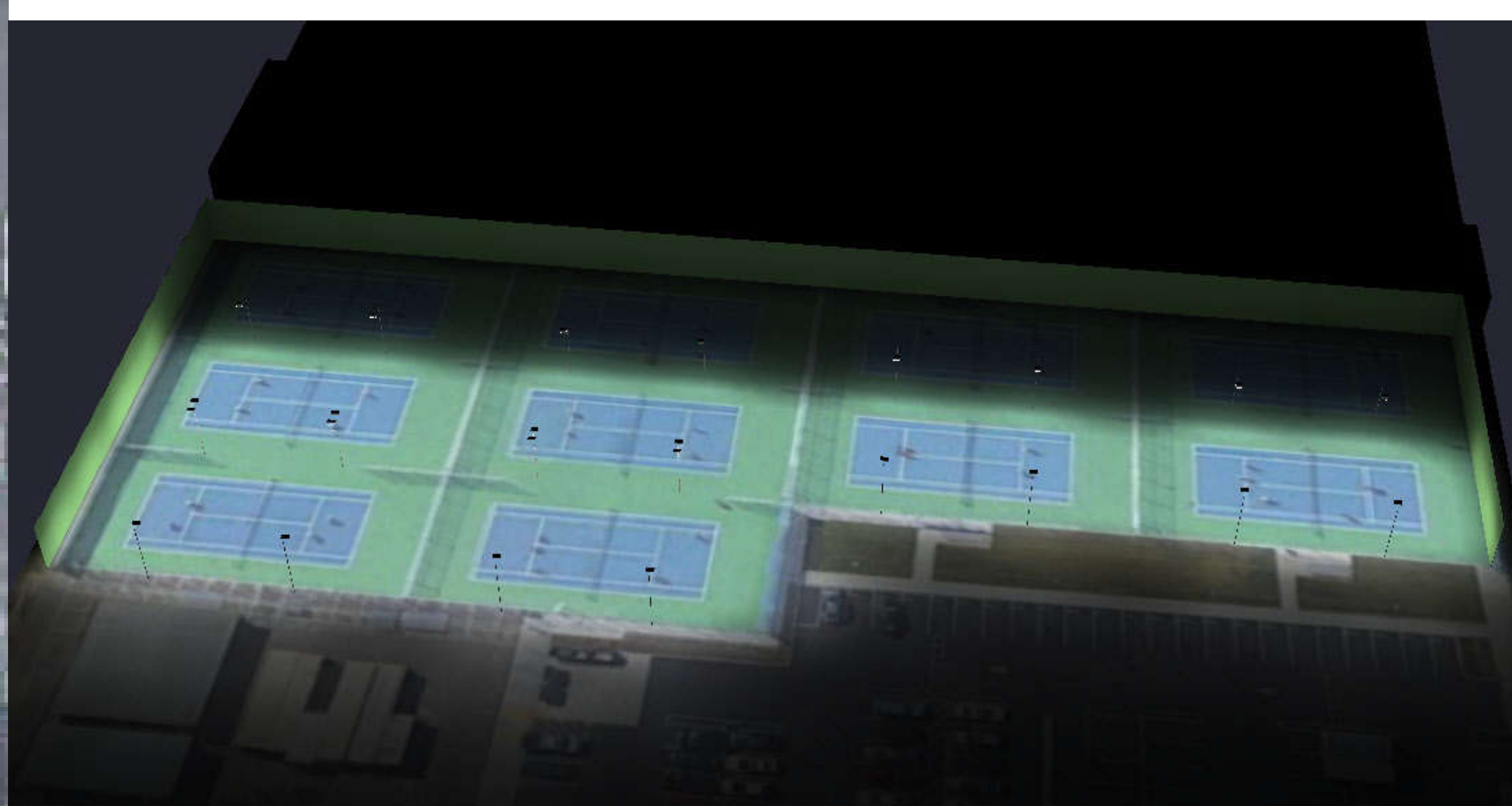
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9



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



Modified Tennis Court Lighting Plan



Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Calc Points @ 3' AFF	Illuminance	Fc	29.57	81.4	0.2	147.85	407.00
Spill	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
Court 10	Illuminance	Fc	57.72	71.6	40.5	1.43	1.77
Court 4	Illuminance	Fc	61.05	81.2	47.6	1.28	1.71
Court 6	Illuminance	Fc	62.77	81.2	48.6	1.29	1.67
PPA Court 10	Illuminance	Fc	57.33	78.9	35.7	1.61	2.21
PPA Court 4	Illuminance	Fc	57.83	81.2	27.2	2.13	2.99
PPA Court 6	Illuminance	Fc	59.80	81.2	27.2	2.20	2.99

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Lum. Lumens	BUG Rating	Lum. Watts
	8	C	SINGLE	0.950	VISIONAIRE BLX-II_8_T4T_256LC_10_5K-VOLT-KM SINGLE @ 24' MTG. HT. 10° TILT (N)	105925	B5-U0-G5	884
	8	C-HS	SINGLE	0.950	VISIONAIRE BLX-II_8_T4T_256LC_10_5K_HS-VOLT-KM SINGLE @ 24' MTG. HT. 4' TNS ARM (N)	91120	B5-U1-G5	884
	4	C2	2 @ 180 DEGREES	0.950	VISIONAIRE BLX-II_8_T4T_256LC_10_5K-VOLT-KM SINGLE @ 24' MTG. HT. 10° TILT (N)	211850	B5-U0-G5	884

DRAWING NUMBER : **LS011322PLS-LAQUINTA HIGH SCHOOL TENNIS COURTS-03**

LAYOUT DESIGNER : **LS**

DESIGNER EMAIL : **Lsalgado@visionairelighting.com**

PROJECT DATE : **01/13/22**

REVISION DATE : **04/28/22**

REP : **PERFORMANCE LIGHTING**

NOTE/S: **-**

DISCLAIMER
 BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE PROJECT ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS. THE LIGHTING DATA REPRESENTS ILLUMINATION LEVELS TAKEN FROM A LABORATORY SETTING UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL PERFORMANCE MAY VARY DUE TO VARIATIONS IN ELECTRICAL VOLTAGE, INSTALLATION TOLERANCES, BUILDINGS, OTHER LIGHTING AND OTHER VARIABLES THAT WERE NOT CONSIDERED WHEN THIS PHOTOMETRIC REPORT WAS CREATED. IT IS THE RESPONSIBILITY OF THE OWNER OR PROJECT ENGINEER TO ENSURE COMPLIANCE OF ALL STANDARDS IN EFFECT. THIS PHOTOMETRIC LAYOUT IS THE PROPERTY OF VISIONAIRE LIGHTING AND IT CANNOT BE USED FOR INSTALLATION OF PRODUCTS OTHER THAN SPECIFIED.
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 19645 Rancho Way-Rancho Dominguez, CA. 90220
 POINT-BY-POINT CALCULATION
 Illuminance at Grade (Footcandles), unless otherwise specified.

