EQ	EQUIPMENT LIST FOR AREAS SHOWN												
	P	ole		Luminaires									
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS					
4	T1-T4	50'	-	50'	1500W MZ	3	3	0					
4		12	12	0									



MY	PROJECT	

Name: Free State High School Tennis

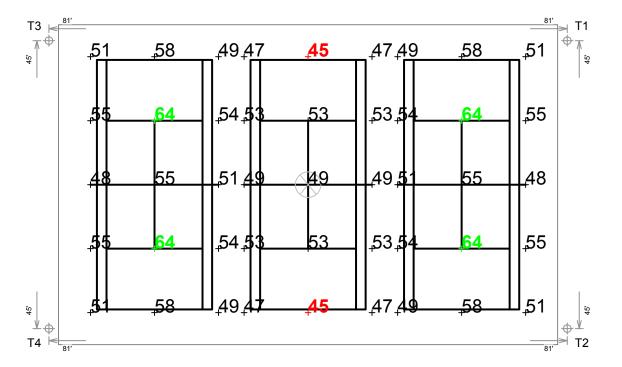
Location: Lawrence,KS

## **GRID SUMMARY**

Name: Tennis 1-3

Size: 3 Court - 12' Spacing Spacing: 20.0' x 20.0'

Height: 3.0' above grade



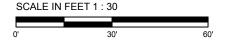
CONSTANT ILLUM	MINATION
SUMMARY	HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	50
Scan Average:	52.9
Maximum:	64
Minimum:	45
Avg / Min:	1.17
Max / Min:	1.41
UG (adjacent pts):	0.00
CV:	0.09
No. of Points:	45
LUMINAIRE INFORMATIO	)N
Luminaire Type:	Green Generation
Rated Lamp Life:	5,000 hours
Avg Lumens / Lamp:	134,000
Avg Lamp Tilt Factor:	1.000
No. of Luminaires:	12
Avg KW:	18.77 (20.4 max)

**Guaranteed Performance:** The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

**Field Measurements:** Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

**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 ballast and structures located within 3 feet (1m) of design locations.



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

 ENGINEERED DESIGN

 By: Brett Morris

 File # / Date:
 158418
 22-May-12

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EQ	EQUIPMENT LIST FOR AREAS SHOWN												
	P	ole		Luminaires									
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS					
4	T1-T4	50'	-	50'	1500W MZ	3	3	0					
4		12	12	0									



MY	PROJECT	

Name: Free State High School Tennis

Location: Lawrence,KS

## **GRID SUMMARY**

Name: Blanket Grid
Size: 3 Court - 12' Spacing
Spacing: 20.0' x 20.0'

Height: 3.0' above grade

CONSTANT ILLUMINATION								
SUMMARY	HORIZONTAL FOOTCANDLES							
	Entire Grid							
Scan Average:	0.9							
Maximum:	16							
Minimum:	0							
Avg / Min:	112.78							
Max / Min:	2031.25							
UG (adjacent pts):	5.86							
CV:	2.59							
No. of Points:	459							
LUMINAIRE INFORMATION	N							
Luminaire Type:	Green Generation							
Rated Lamp Life:	5,000 hours							
Avg Lumens / Lamp:	134,000							
Avg Lamp Tilt Factor:	1.000							
No. of Luminaires:	12							
Avg KW:	18.77 (20.4 max)							

**Guaranteed Performance:** The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

**Field Measurements:** Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

**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 ballast and structures located within 3 feet (1m) of design locations.

₽.	0.0 0	₽.0	₽.0	₽.0	₽.0	₽.0	₽.0	₽.1	₽.1	₽.1	₽.1	<b>0</b> .1	₽.1	<b>0</b> .1	₽.0	₽.0	0.0	₽.0	₽.0	₽.0	₽.0	₽.0
₽.	0.0	₽.0	₽.0	₽.0	₽.0	₽.1	₽.1	₽.1	<b>p</b> .1	₽.1	₽.1	₽.1	₽.1	₽.1	₽.1	₽.0	0.0	₽.0	₽.0	₽.0	₽.0	₽.0
₽.	0.0 €	₽.0	₽.0	₽.0	₽.1	<b>D</b> .1	<b>.</b> 0.1	₽.1	₽.2	₽.2	₽.2	0.2	₽.1	<b>p</b> .1	<b>p</b> .1	₽.1	<b>D</b> .1	₽.0	₽.0	₽.0	₽.0	0.0
₽.	0.0	₽.0	₽.1	<b>.</b> 0.1	₽.1	₽.1	0.2	₽.2	<b>p</b> .3	₽.3	₽.3	<b>p</b> .3	₽.2	₽.2	<b>p</b> .2	₽.1	0.1	₽.1	₽.0	0.0	0.0	0.0
₽.	0.0	0.0	₽.1	₽.1	₽.2	0.2	0.3	₽.4	₽.5	₽.5	₽.5	ρ.5	₽.5	0.4	₽.3	₽.2	<b>.</b> 0.1	₽.1	₽.1	₽.0	₽.0	₽.0
₽.	0.0 μ.0	<b>.</b> 0.1	₽.1	0.2	₽.3	0.4	₽.6	₽.9	1.1	<b>1</b> .3	<b>1</b> .2	1.3	<b>1</b> .0	₽.8	₽.5	₽.3	0.2	₽.1	₽.1	0.1	₽.0	₽.0
₽.	0 .0.1	₽.1	₽.1	<b>p</b> .3	₽.5	₽.8	1.4	2.5	3.8	<b>4</b> .1	<b>4</b> .1	<b>4</b> .0	3.4	<b>1</b> .8	<b>1</b> .1	₽.6	0.4	₽.2	<b>p</b> .1	<b>p</b> .1	₽.0	0.0
₽.	0 .0.1	<b>.</b> 0.1	₽.2	₽.4	₽.8	<b>1</b> .7	3.4	₽.0	<b>1</b> 1.4	<b>1</b> 0.6	<b>1</b> 0.4	<b>1</b> 1.0	<b>1</b> 1.0	6.4	<b>2</b> .5	<b>₊</b> 1.2	₽.6	₽.3	<b>p</b> .1	<b>p</b> .1	₽.1	₽.0
₽.	1 .0.1	<b>D</b> .1	₽.2	0.6	1.5	Т3	8	1'					8	31'	ιT	1 <sup>2.4</sup>	1.1	₽.4	₽.2	<b>D</b> .1	₽.1	₽.0
₽.	1 .0.1	₽.2	₽.4	<b>.</b> 1.1	2.8	<u></u>			_	_				7	÷ <sub>⋆</sub>		<b>.</b> 1.9	₽.6	₽.3	₽.1	₽.1	₽.1
₽.	1	₽.2	₽.4	1.4	5.4 K	2	╽╟	_	4		ᆀ	L	_	4		<b>4</b> 15′9		₽.9	₽.3	0.2	₽.1	0.1
₽.	1 .0.1	0.2		<b>1</b> .8				4	#	₽		. ∦	1	#		<b>,</b> 15.9	4.5	₽.8	₽.3	<b>p</b> .2	₽.1	<b>0</b> .1
₽.	1 .Δ.1	₽.2	₽.4	<b>1</b> .5	.5.8 ū		╽╟		11.4	L	Щ	╠		1				₽.9	₽.3	₽.2	₽.1	<b>0</b> .1
₽.	1 .0.1	0.2	₽.4	1.1	<b>2</b> .9	f V	, L		╝	L		L		ر لا	<b>₩</b>	<b>5</b> .8	2.0	₽.6	₽.3	<b>p</b> .1	₽.1	0.1
₽.	1 .0.1	₽.1	₽.2	₽.7	1.6	T4	PC  ≪8.	41						>41	Ψ T	2 <sup>2.7</sup>	<b>.</b> 1.1	₽.4	0.2	₽.1	₽.1	0.1
₽.	0	₽.1	₽.2	0.4	₽.9	<b>1</b> .8	•		<b>1</b> 2.7	<b>1</b> 1.7	<b>1</b> 1.4	<b>1</b> 2.2	<b>↓</b> 12.4	7.4	2.7	<b>↓</b> 1.2	₽.7	₽.3	₽.1	₽.1	₽.1	₽.0
ρ.	0 μ.1	<b>p</b> .1	₽.1	0.3	₽.5	0.9	<b>1</b> .5	2.8	4.3	<b>4</b> .6	<b>4</b> .6	4.5	<b>3</b> .9	2.0	1.2	₽.6	0.4	₽.2	₽.1	<b>D</b> .1	₽.0	₽.0
₽.	0.0 μ	₽.1	₽.1	₽.2	₽.3	₽.4	₽.7	₽.9	<b>.</b> 1.3	41.4	41.4	<b>.</b> 1.4	<b>4</b> .1	₽.8	₽.6	₽.3	₽.2	₽.1	₽.1	₽.1	₽.0	₽.0
ρ.	0.0 μ.0	₽.0	₽.1	<b>.</b> 0.1	₽.2	0.2	0.3	₽.4	0.5	₽.5	₽.5	0.5	₽.5	0.4	<b>p</b> .3	₽.2	<b>D</b> .1	₽.1	<b>.</b> 0.1	₽.0	₽.0	0.0
ρ.	0.0 μ.0	₽.0	₽.1	<b>p</b> .1	₽.1	₽.1	₽.2	₽.2	0.3	₽.3	₽.3	₽.3	₽.3	0.2	0.2	₽.1	<b>D</b> .1	₽.1	₽.0	₽.0	₽.0	₽.0
₽.	0.0 μ.0	₽.0	₽.0	<b>.</b> 0.1	₽.1	<b>D</b> .1	₽.1	₽.1	₽.2	₽.2	₽.2	0.2	₽.2	<b>0</b> .1	<b>D</b> .1	₽.1	<b>D</b> .1	₽.0	₽.0	₽.0	₽.0	₽.0
ρ.	0.0	₽.0	₽.0	₽.0	₽.0	₽.1	<b>D</b> .1	₽.1	0.1	0.1	<b>D</b> .1	0.1	<b>0</b> .1	0.1	₽.1	₽.1	0.0	₽.0	0.0	₽.0	₽.0	₽.0

ENGINEERED DESIGN

By: Brett Morris
File # / Date: 158418

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22-May-12

SCALE IN FEET 1 : 100										
)'	10	00'	200'							

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





Name: Free State High School Tennis

Location: Lawrence,KS

## **EQUIPMENT LAYOUT**

## INCLUDES:

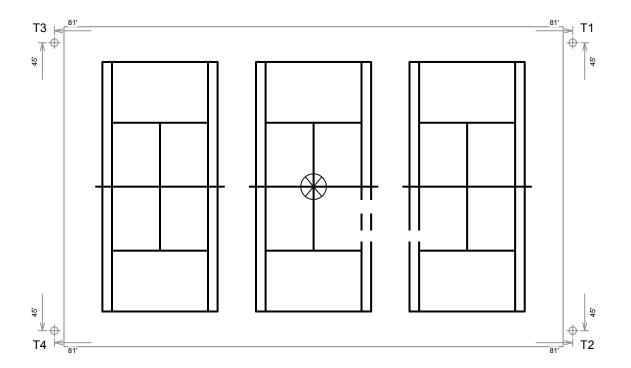
· Tennis 1-3

**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 ballast and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN												
	Po	ole		Luminaires								
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE						
4	T1-T4	50'	-	50'	1500W MZ	3						
4	TOTALS											

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	480					
1500 watt MZ	8.6	7.7	7.5	6.5	5.1	-	3.7					



SCALE IN FEET 1 : 30

0' 30' 60'

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

 ENGINEERED DESIGN

 By:
 Brett Morris

 File # / Date:
 158418
 22-May-12

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