

Sheri Gagnon Memorial Park Tennis

Raymond, ME

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1-T4	60'	60'	2	TLC-LED-550	1.08 kW	A
4			8		4.32 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis	4.32 kW	8

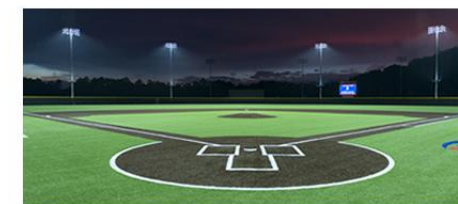
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	8

Single Luminaire Amperage Draw Chart								
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)							
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4	

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Pickleball	Horizontal Illuminance	20.68	12	28	2.25	1.66	A	8	
Property Line Spill	Horizontal	0.00	0	0	-	-	A	8	
Property Line Spill	Max Vertical Illuminance Metric	0.00	0	0	-	-	A	8	
Property Line Spill (Cd)	Max Candela (by Fixture)	86.40	0	1837	72750.73	3421.00	A	8	
Tennis	Horizontal Illuminance	21.57	17	26	1.51	1.24	A	8	
Zero Grid	Horizontal Illuminance	4.88	0	28	151961.91	26704.28	A	8	

From Hometown to Professional



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Equipment List For Areas Shown								
Pole				Luminaire				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T1-T4	60'	-	60'	TLC-LED-550	2	2	0
4	Totals					8	8	0

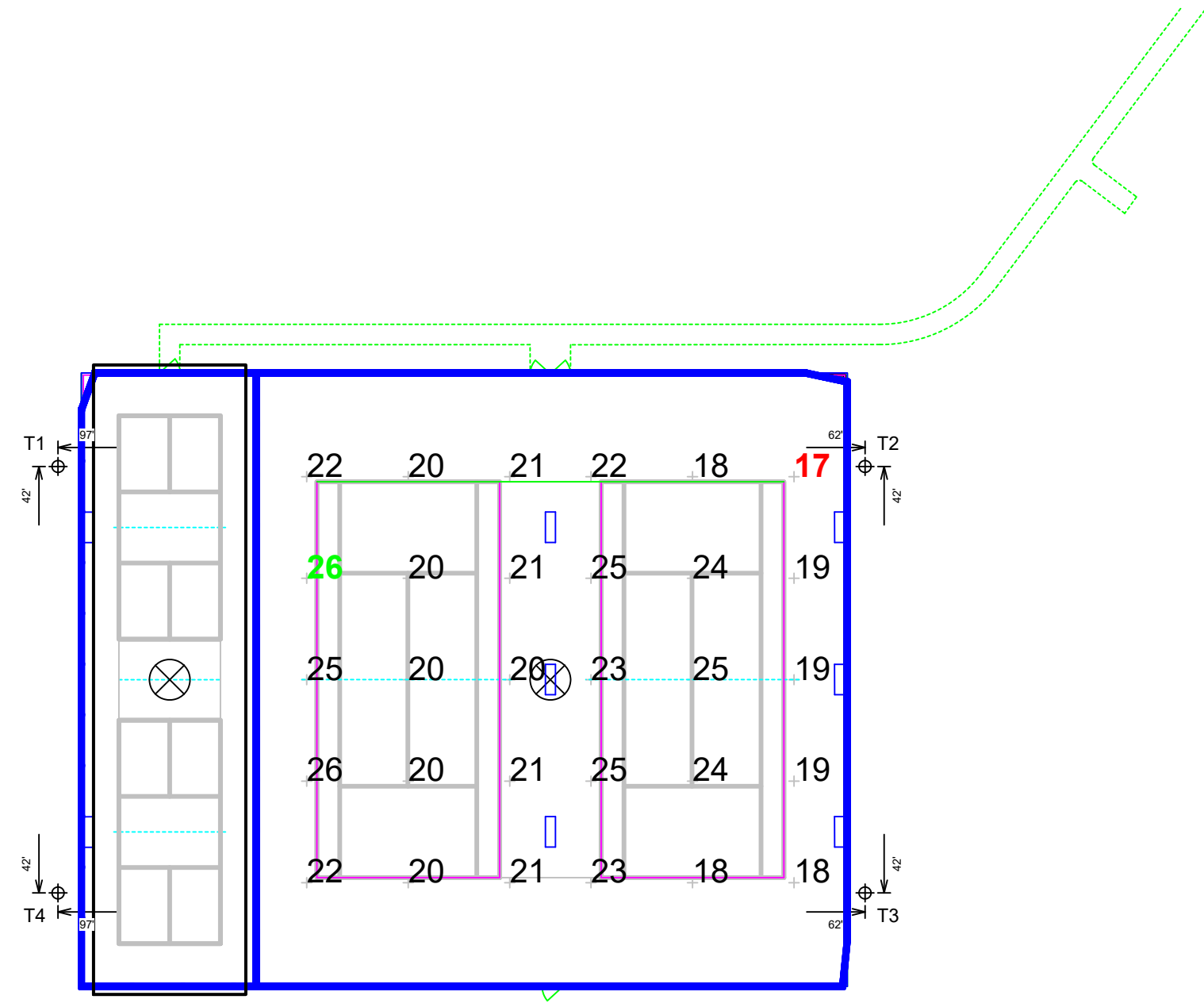
*Above Grade level relative to the field

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Raymond, ME

Grid Summary	
Name	Tennis
Size	2 Court - 20' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	20
Scan Average	21.57
Maximum	26
Minimum	17
Avg/Min	1.24
Guaranteed Max/Min	3
Max/Min	1.51
UG (adjacent pts)	0.00
CU	0.51
No. of Points	30
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

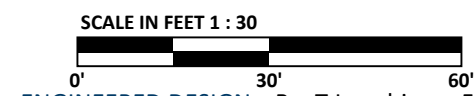


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T1-T4	60'	-	60'	TLC-LED-550	2	2	0
4	Totals					8	8	0

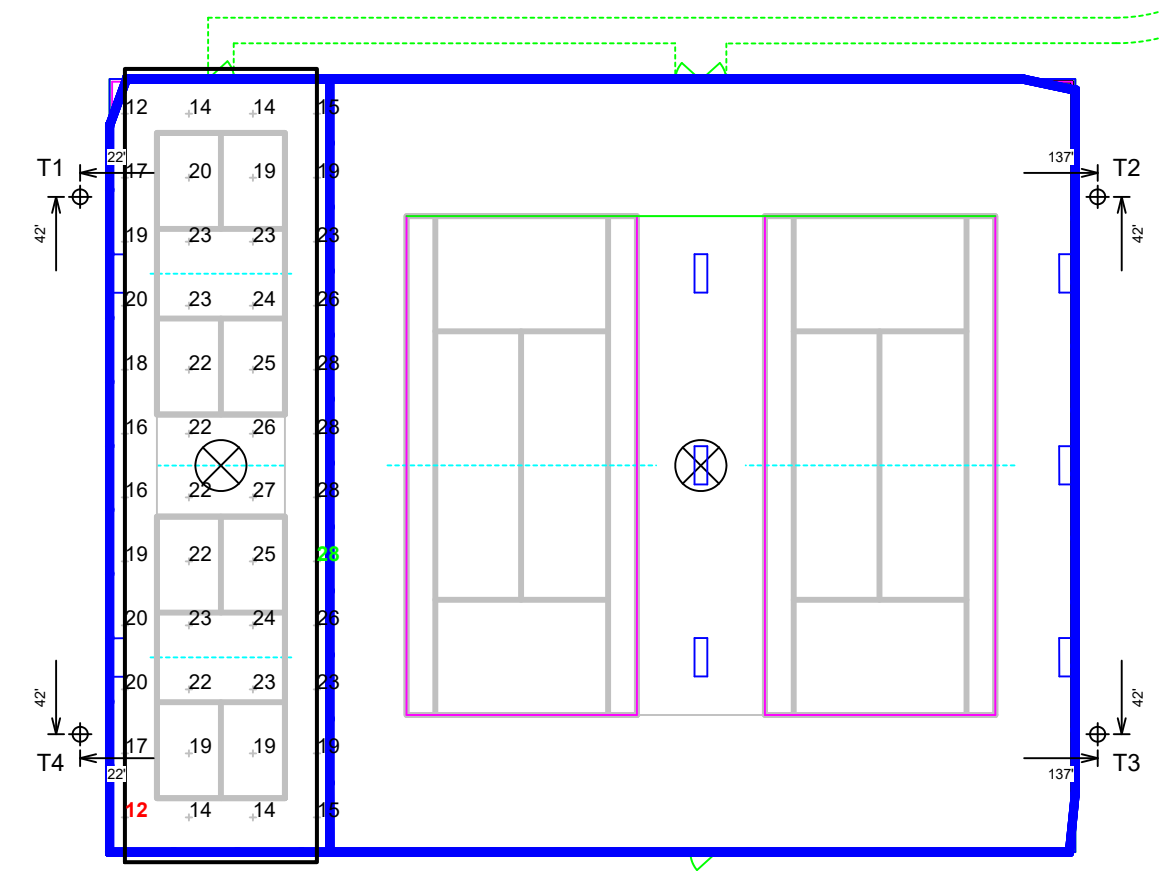
*Above Grade level relative to the field

Sheri Gagnon Memorial Park Tennis

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Grid Summary	
Name	Pickleball
Size	30' x 124'
Spacing	10.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	20
Scan Average	20.68
Maximum	28
Minimum	12
Avg/Min	1.66
Guaranteed Max/Min	3
Max/Min	2.25
UG (adjacent pts)	1.43
CU	0.19
No. of Points	48
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

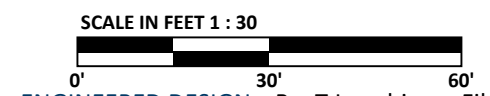


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Grid Summary	
Name	Zero Grid
Spacing	10.0' x 10.0'
Height	3.0' above grade

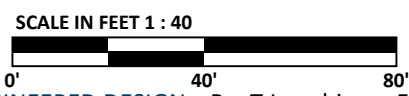
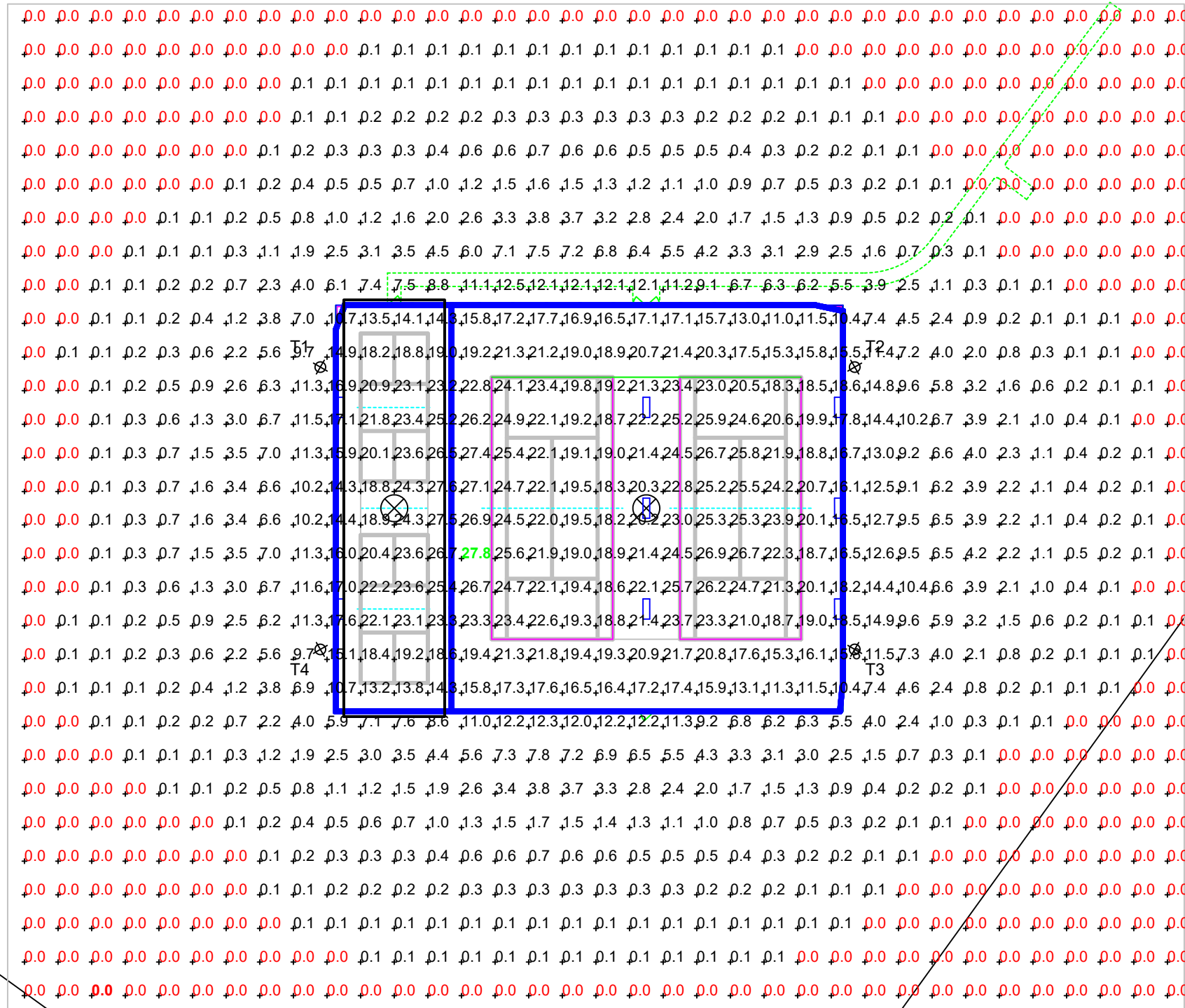
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	4.88
Maximum	28
Minimum	0
Avg/Min	26704.28
Max/Min	151961.91
UG (adjacent pts)	7.68
CU	1.00
No. of Points	400
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

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Grid Summary	
Name	Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

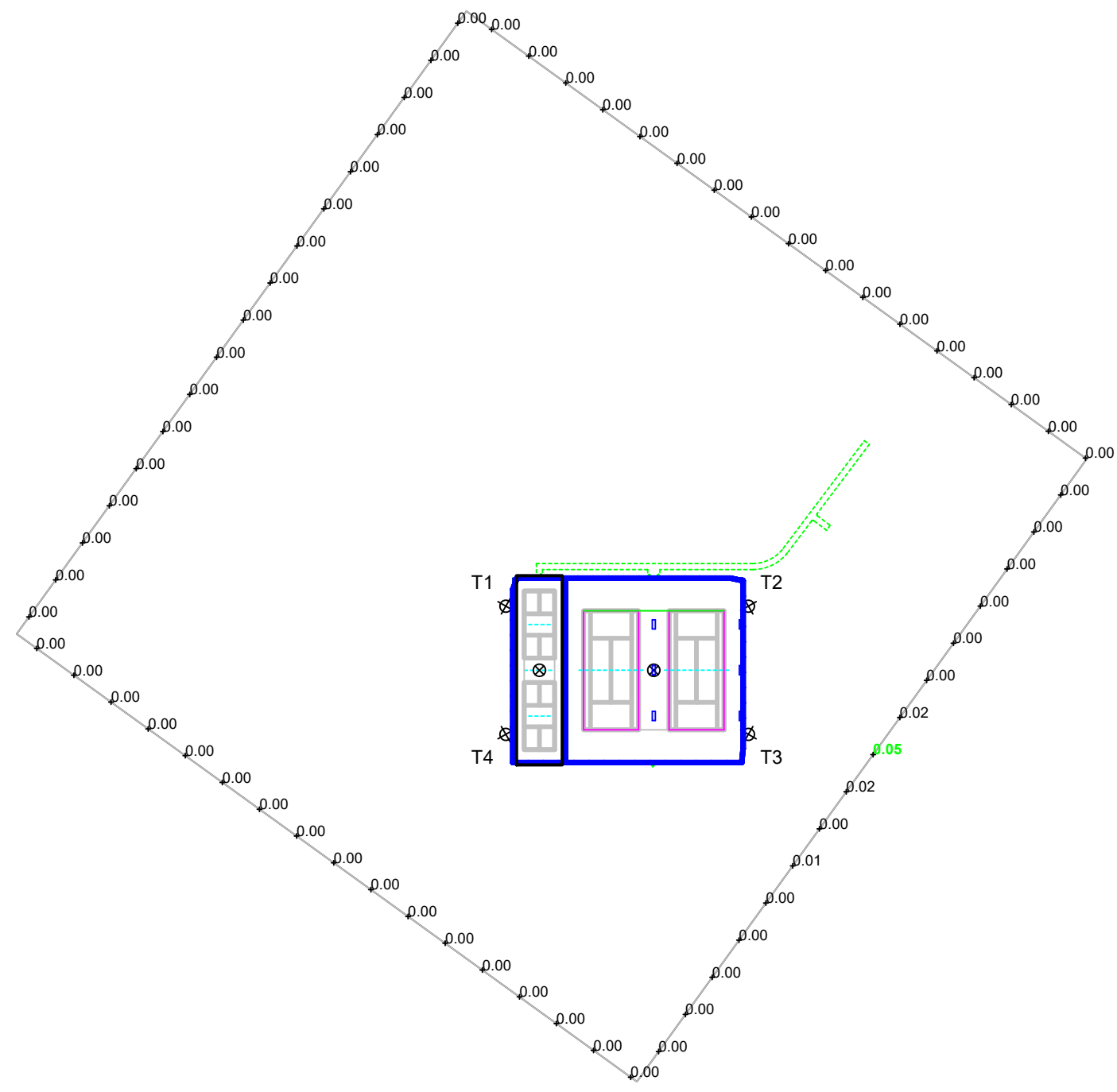
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	67
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

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

SCALE IN FEET 1 : 100
 0' 100' 200'
 ENGINEERED DESIGN By: T.Lanphier • File #225091B • 11-Jun-24



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ILLUMINATION SUMMARY

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Grid Summary	
Name	Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

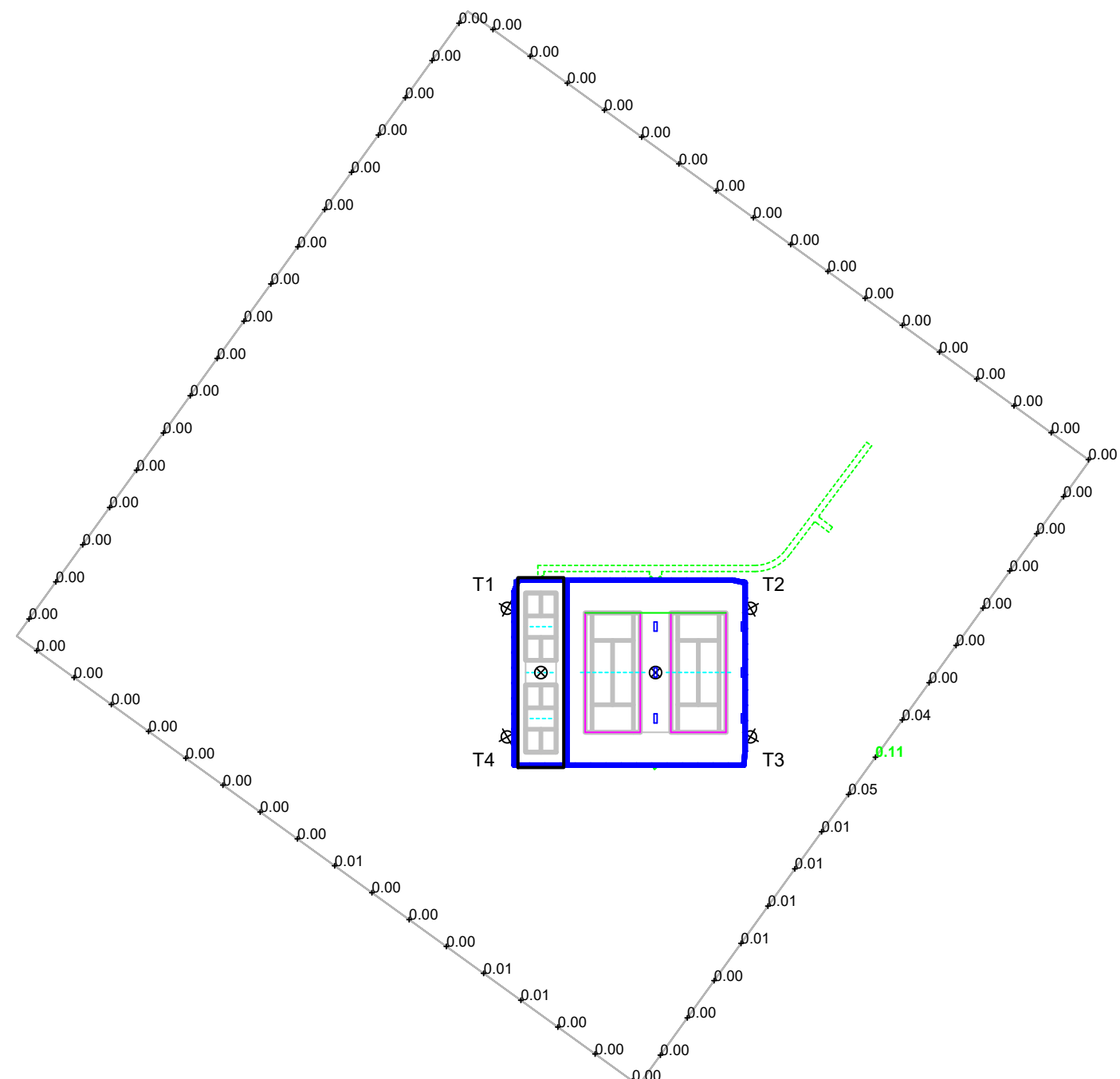
Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	67
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

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Grid Summary	
Name	Property Line Spill (Cd)
Spacing	30.0' x 10.0'
Height	5.0' above grade

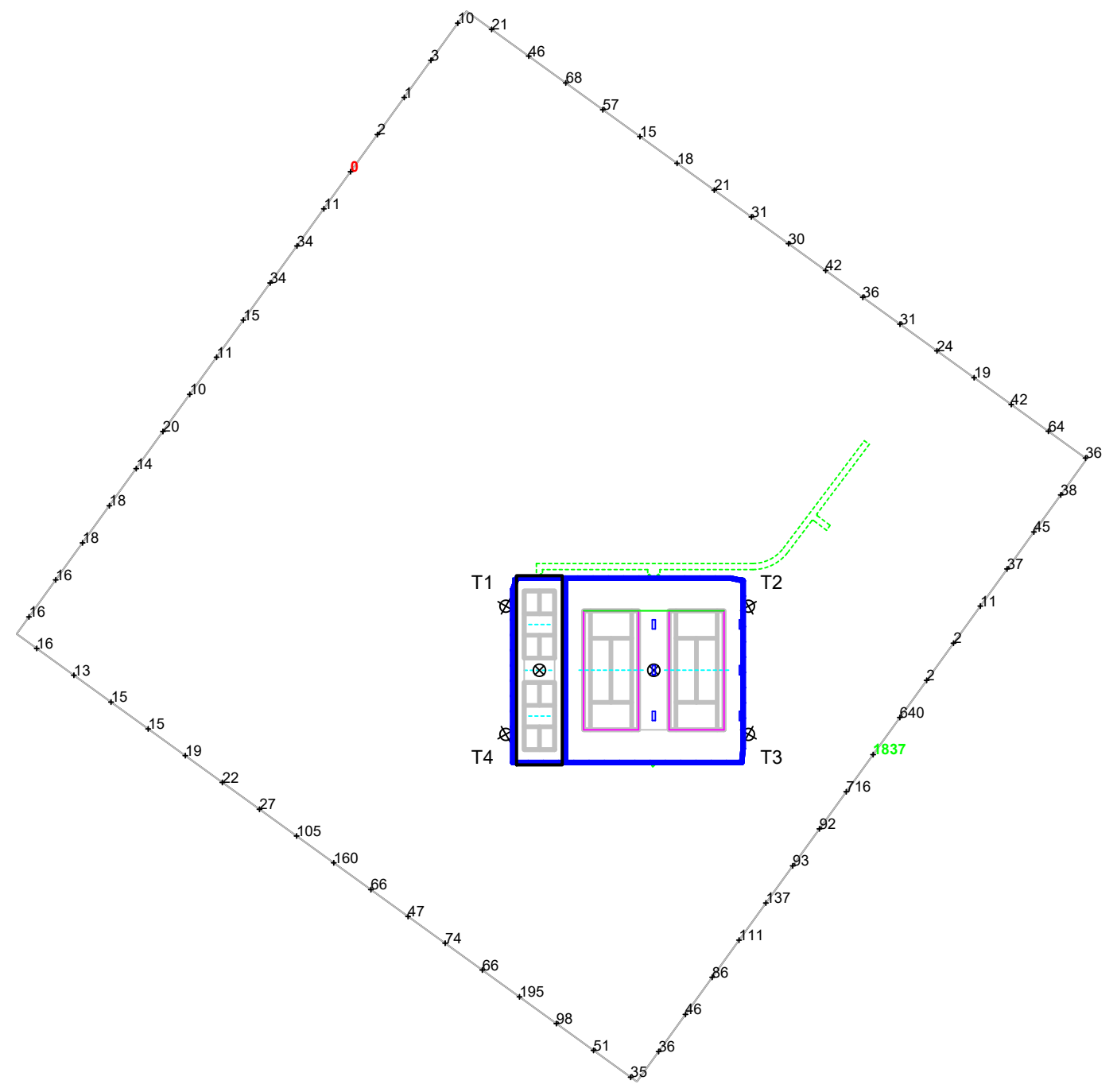
Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	86.40
Maximum	1837
Minimum	0
Avg/Min	3421.00
Max/Min	72750.73
UG (adjacent pts)	0.00
CU	0.00
No. of Points	67
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	4.32 kW

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Equipment Layout

INCLUDES:
 · Pickleball
 · Tennis

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

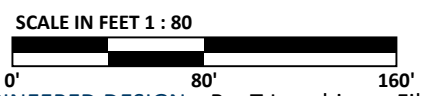
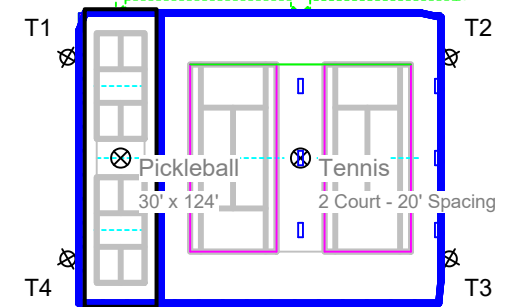
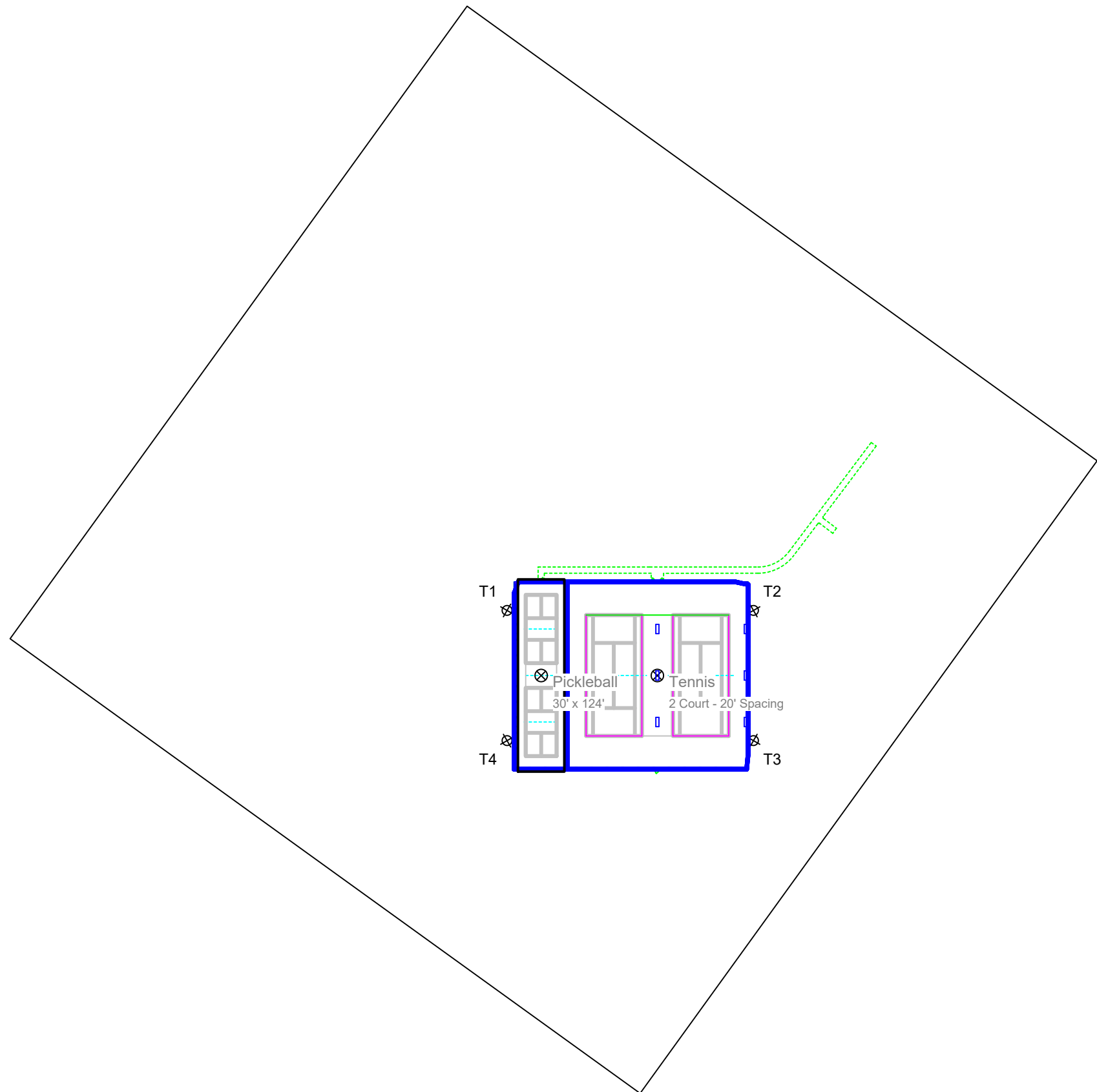
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Equipment List For Areas Shown

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
4	T1-T4	60'	-	60'	TLC-LED-550	2
4	Totals					8

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



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