

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1, T4-T5, T8	50'	50'	2	TLC-LED-1150	2.30 kW	A
T2-T3, T6-T7	50'	50'	4	TLC-LED-1150	4.60 kW	A
T9, T12-T13, T16	50'	50'	2	TLC-LED-1150	2.30 kW	B
T10-T11, T14-T15	50'	50'	4	TLC-LED-1150	4.60 kW	B
T17, T20-T21, T24	50'	50'	2	TLC-LED-1150	2.30 kW	C
T18-T19, T22-T23	50'	50'	4	TLC-LED-1150	4.60 kW	C
24			72		82.80 kW	

Circuit Summary				
Circuit	Description	Load	Fixture Qty	
A	Tennis 1	27.6 kW	24	
B	Tennis 2	27.6 kW	24	
C	Tennis 3	27.6 kW	24	

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1150	LED 5700K - 75 CRI	1150W	121,000	>51,000	>51,000	>51,000	72

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Center 1	Horizontal Illuminance	78.6	67	88	1.32	1.17	B	24	
Center 2	Horizontal Illuminance	83.1	75	91	1.22	1.11	B	24	
Center 3	Horizontal Illuminance	78.9	66	88	1.34	1.20	B	24	
Center Tennis 1-3	Horizontal Illuminance	80.2	66	91	1.38	1.22	B	24	
Court C 1 Area	Horizontal	71.6	35	91	2.60	2.05	B	24	
Court C 2 Area	Horizontal	79.7	52	95	1.83	1.53	B	24	
Court C 3 Area	Horizontal	71.9	34	90	2.61	2.11	B	24	
Court N 1 Area	Horizontal	71	35	90	2.57	2.03	A	24	
Court N 2 Area	Horizontal	82	49	100	2.03	1.67	A	24	
Court N 3 Area	Horizontal	71.7	35	91	2.59	2.05	A	24	
Court S 1 Area	Horizontal	72.1	33	91	2.75	2.18	C	24	
Court S 2 Area	Horizontal	80.7	52	96	1.83	1.55	C	24	
Court S 3 Area	Horizontal	71.6	35	88	2.54	2.05	C	24	
North 1	Horizontal Illuminance	78.1	66	87	1.31	1.18	A	24	
North 2	Horizontal Illuminance	86.7	77	98	1.27	1.13	A	24	
North 3	Horizontal Illuminance	78.2	67	89	1.33	1.17	A	24	
North Tennis 1-3	Horizontal Illuminance	81	66	98	1.49	1.23	A	24	
South 1	Horizontal Illuminance	79.2	65	89	1.37	1.22	C	24	
South 2	Horizontal Illuminance	84.4	75	93	1.23	1.12	C	24	
South 3	Horizontal Illuminance	78.2	67	87	1.31	1.17	C	24	
South Tennis 1-3	Horizontal Illuminance	80.6	65	93	1.44	1.24	C	24	

ENGINEERED DESIGN By: • File #189850A • 04-Apr-18

From Hometown to Professional



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PROJECT SUMMARY

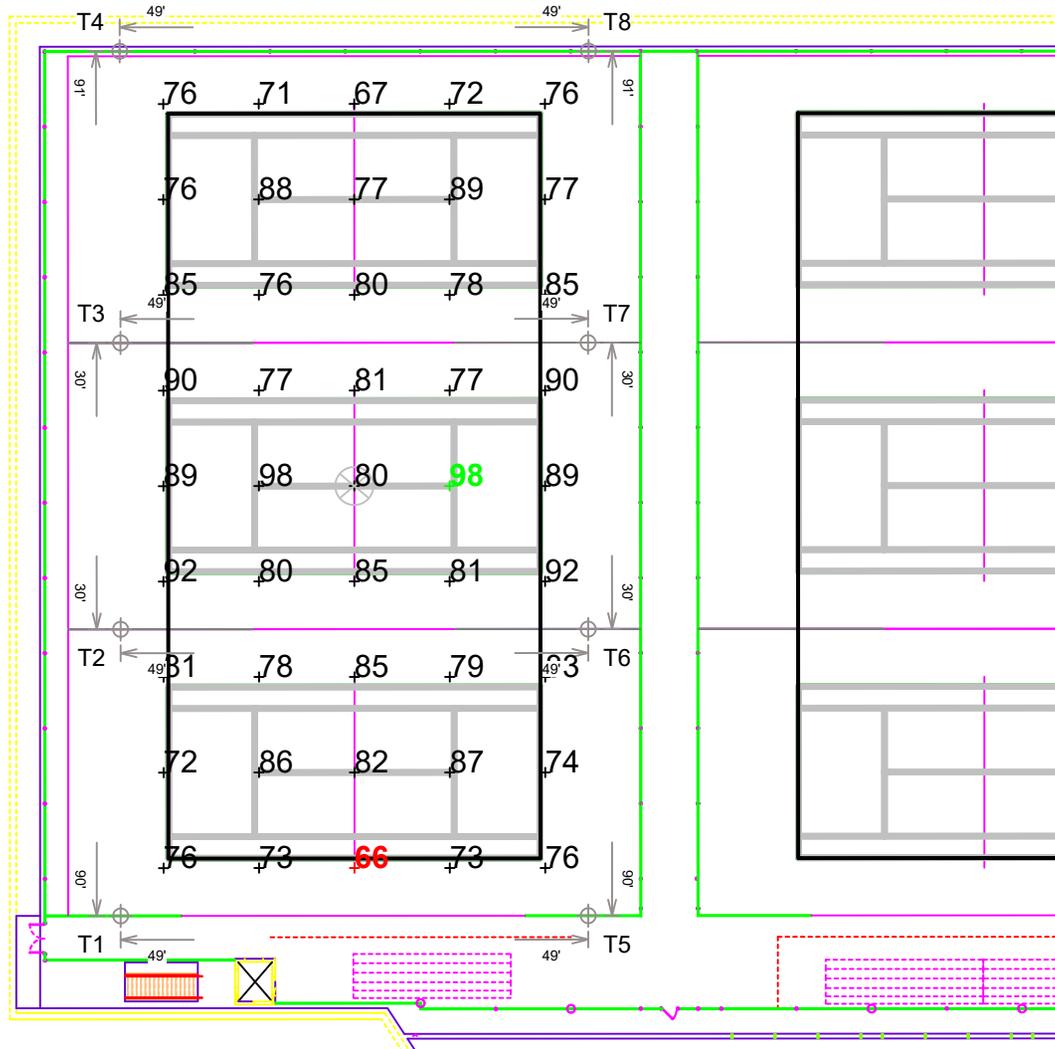
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	North Tennis 1-3
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Guaranteed Average:	75		
Scan Average:	80.98		
Maximum:	98		
Minimum:	66		
Avg / Min:	1.23		
Guaranteed Max / Min:	1.7		
Max / Min:	1.49		
UG (adjacent pts):	0.00		
CU:	0.78		
No. of Points:	45		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
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.



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ILLUMINATION SUMMARY

SCALE IN FEET 1 : 40



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
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Center Tennis 1-3
Size: 3 Court - 24' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Guaranteed Average:	75
Scan Average:	80.21
Maximum:	91
Minimum:	66
Avg / Min:	1.22
Guaranteed Max / Min:	1.7
Max / Min:	1.38
UG (adjacent pts):	0.00
CU:	0.77
No. of Points:	45

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 24
Total Load: 27.6 kW

Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

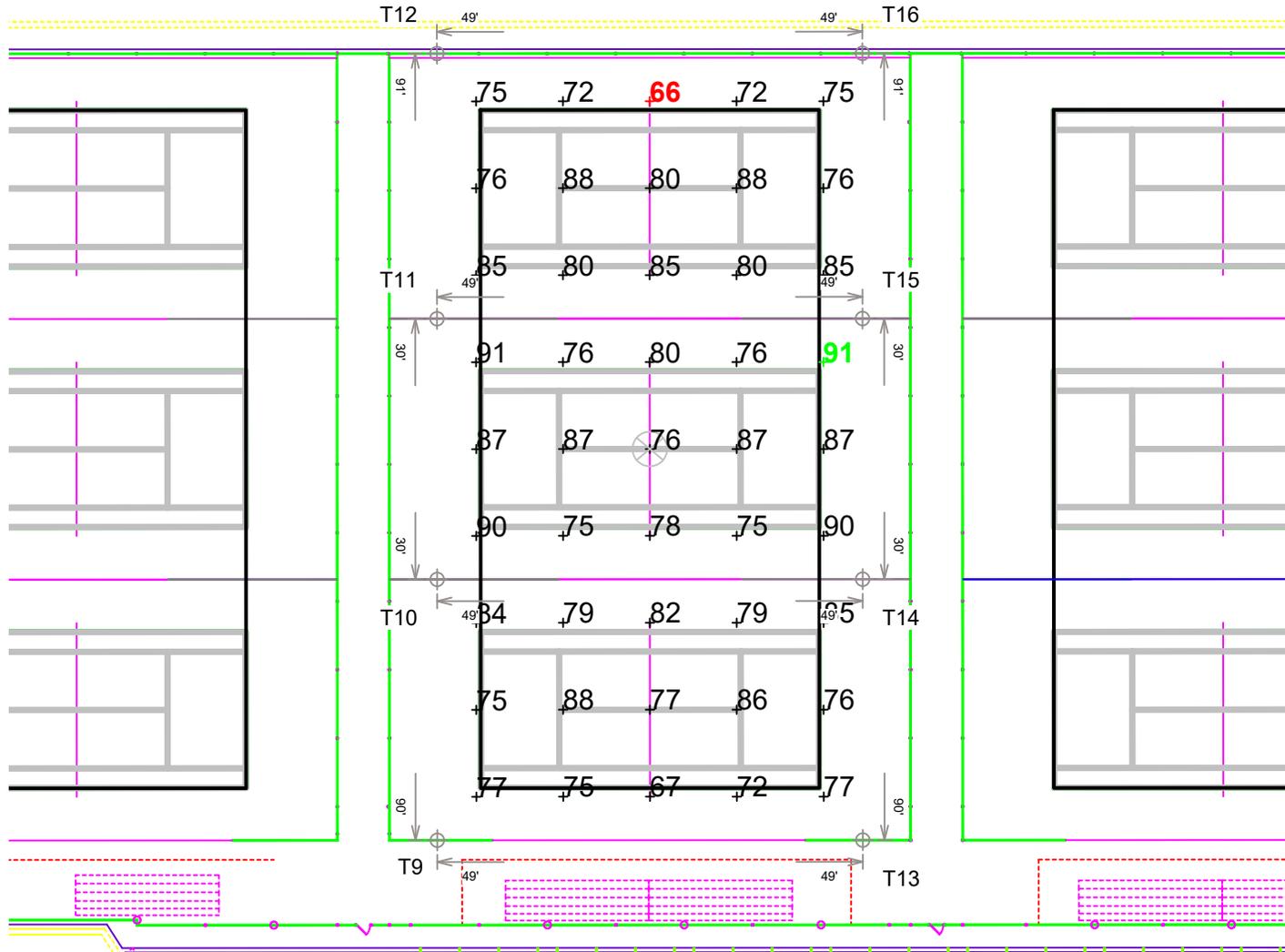
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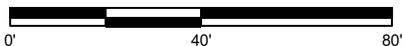
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SCALE IN FEET 1 : 40



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	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

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GRID SUMMARY

Name: South Tennis 1-3
Size: 3 Court - 24' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Guaranteed Average:	75
Scan Average:	80.60
Maximum:	93
Minimum:	65
Avg / Min:	1.25
Guaranteed Max / Min:	1.7
Max / Min:	1.44
UG (adjacent pts):	0.00
CU:	0.78
No. of Points:	45

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 24
Total Load: 27.6 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

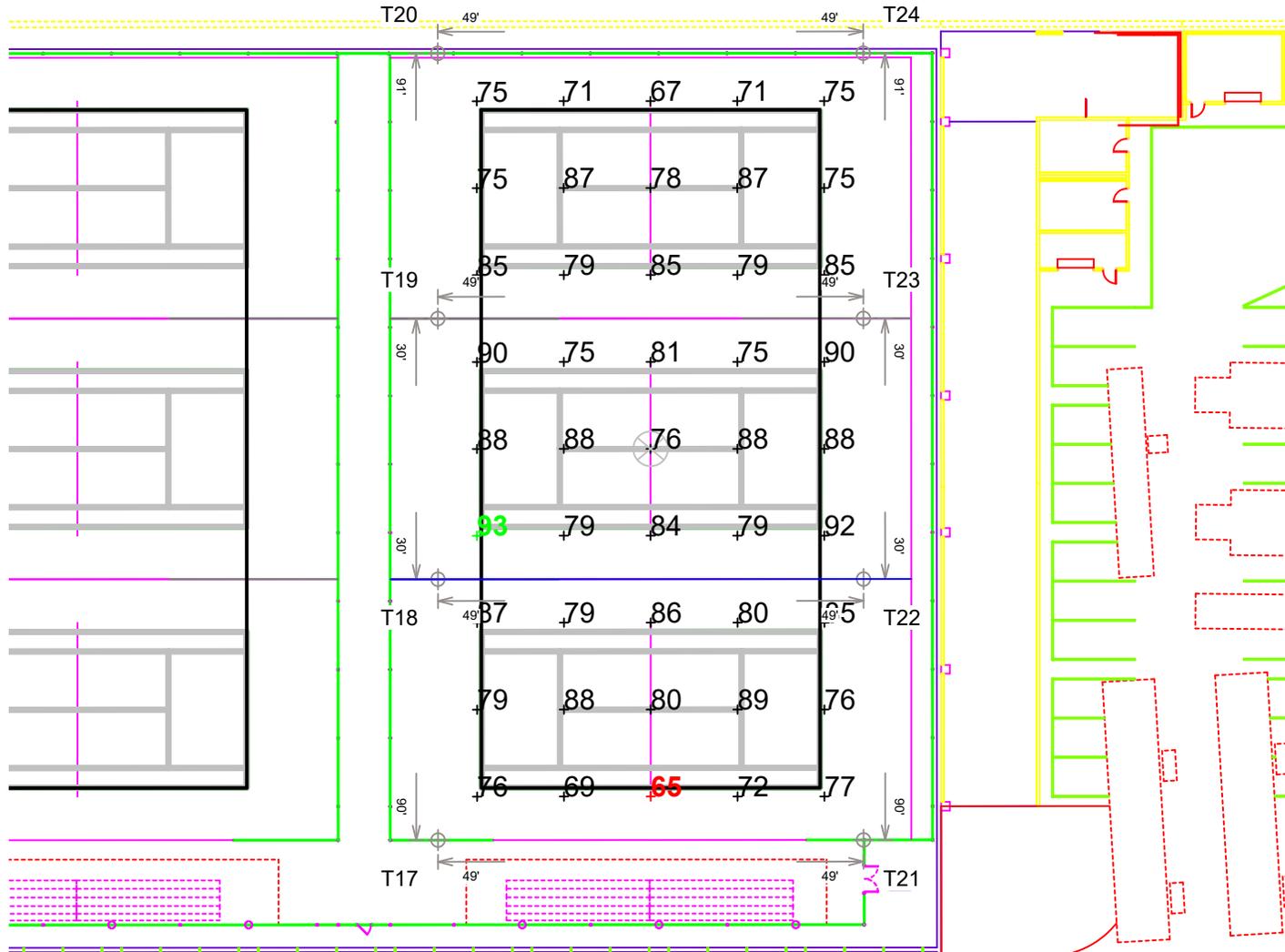
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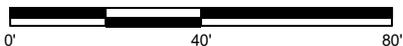
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SCALE IN FEET 1 : 40



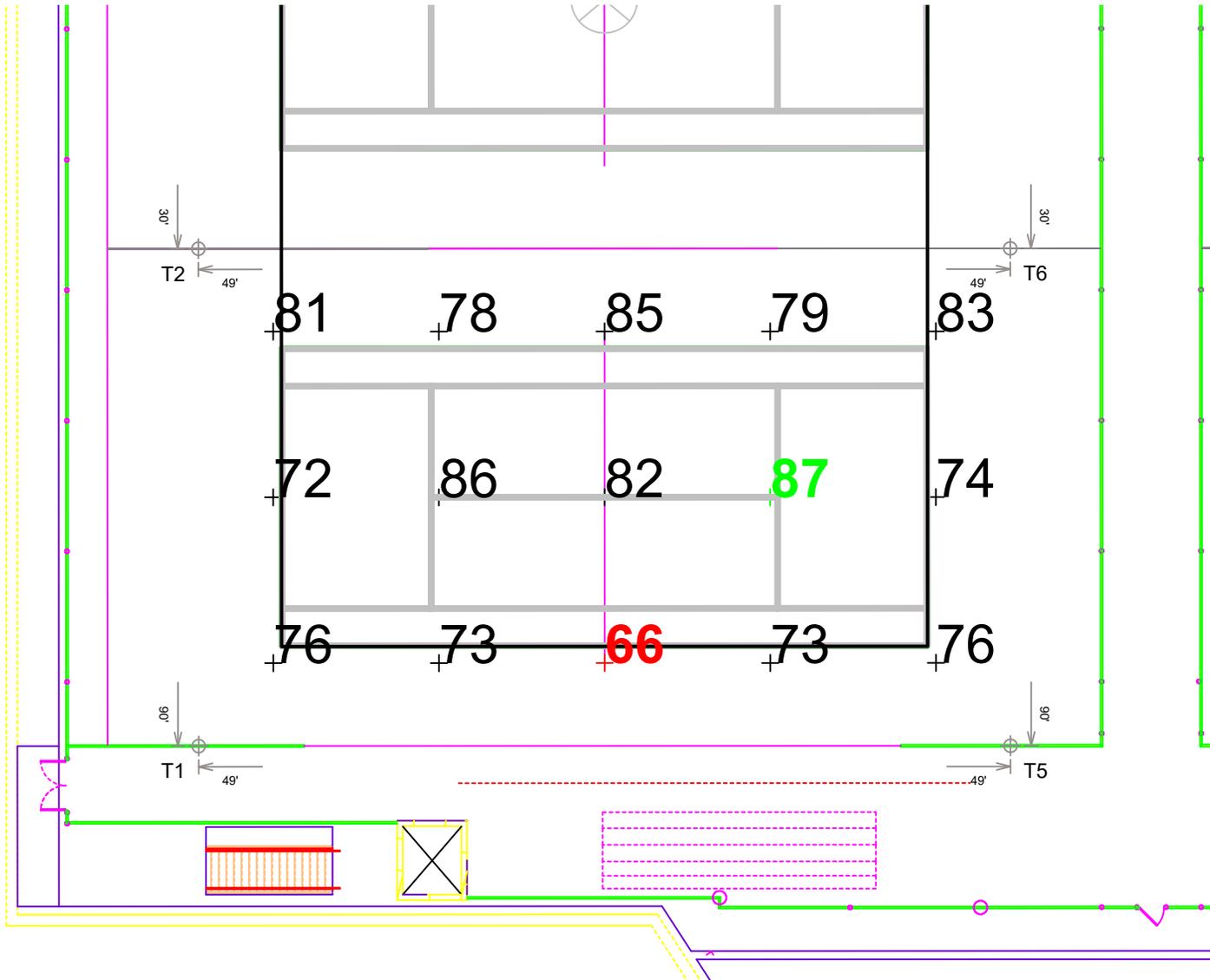
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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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
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0



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Walnut, CA

GRID SUMMARY	
Name:	North 1
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	78.05		
Maximum:	87		
Minimum:	66		
Avg / Min:	1.18		
Max / Min:	1.31		
UG (adjacent pts):	1.24		
CU:	0.25		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			

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ILLUMINATION SUMMARY

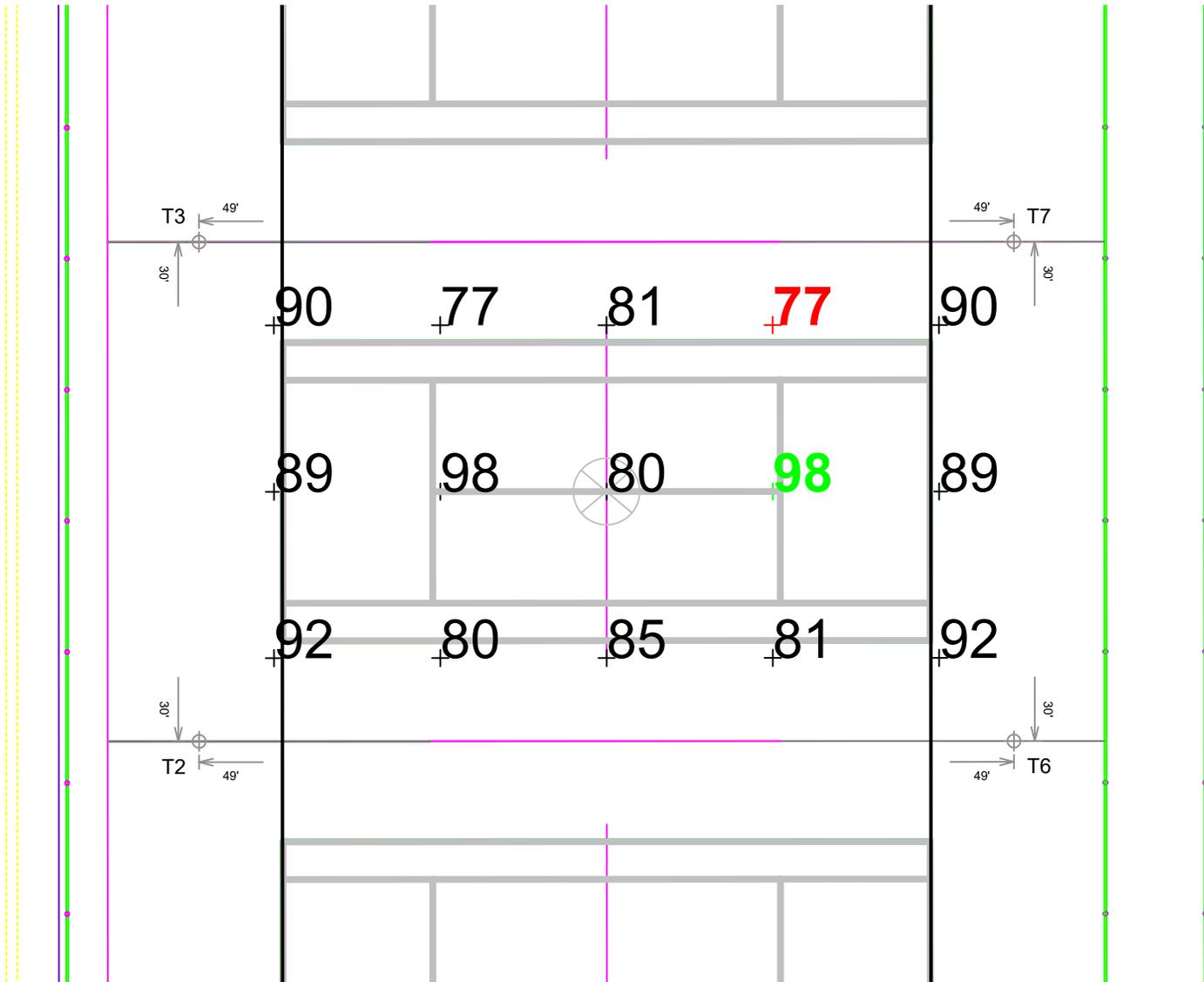
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

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Walnut, CA

GRID SUMMARY	
Name:	North 2
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	86.66		
Maximum:	98		
Minimum:	77		
Avg / Min:	1.13		
Max / Min:	1.27		
UG (adjacent pts):	1.27		
CU:	0.28		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			

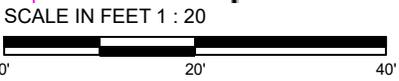


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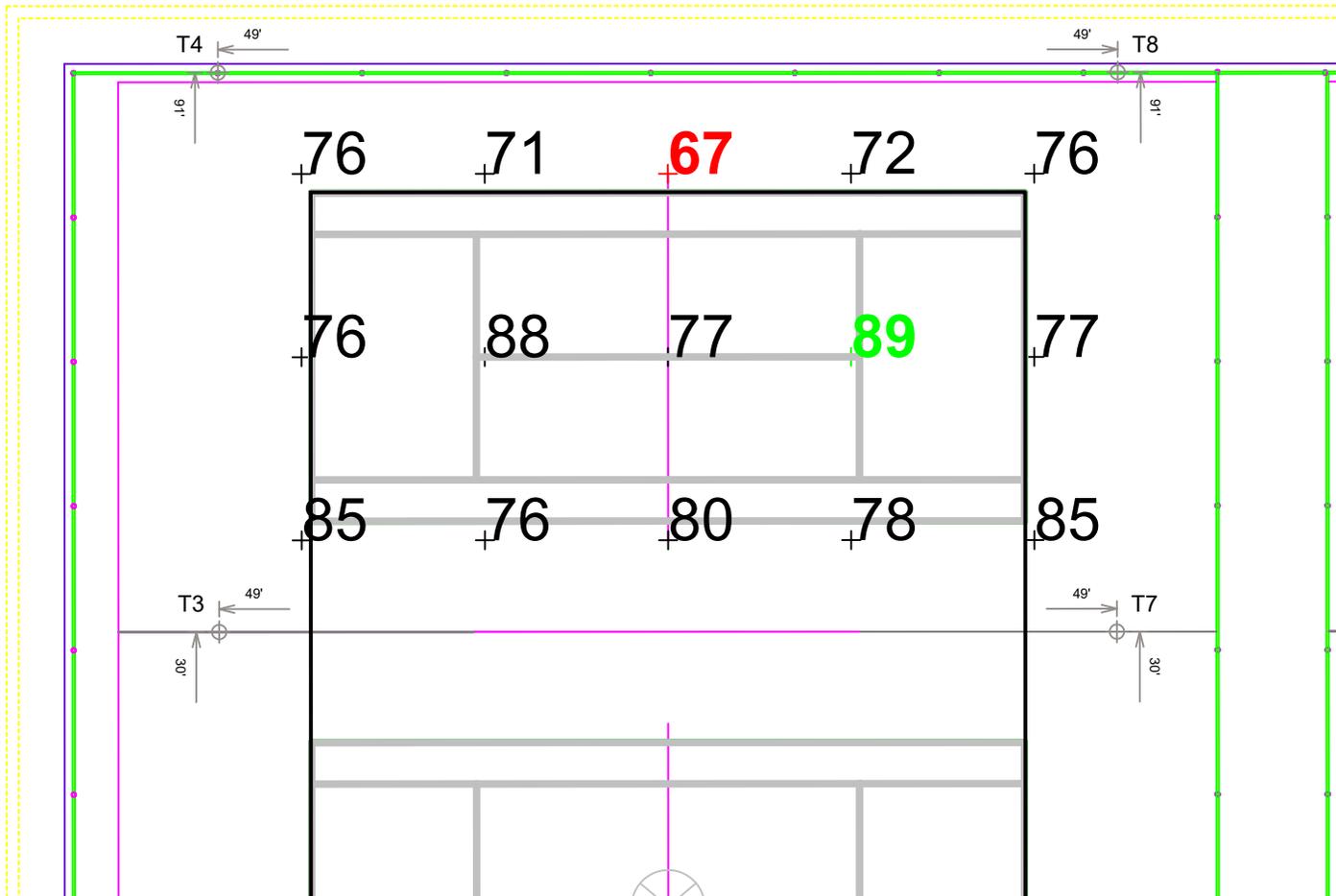
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	North 3
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
	Entire Grid		
Scan Average:	78.23		
Maximum:	89		
Minimum:	67		
Avg / Min:	1.17		
Max / Min:	1.33		
UG (adjacent pts):	1.24		
CU:	0.25		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			



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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court N 1 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid	
Scan Average:	70.99
Maximum:	90
Minimum:	35
Avg / Min:	2.03
Max / Min:	2.57
No. of Points:	72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 24
Total Load: 27.6 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

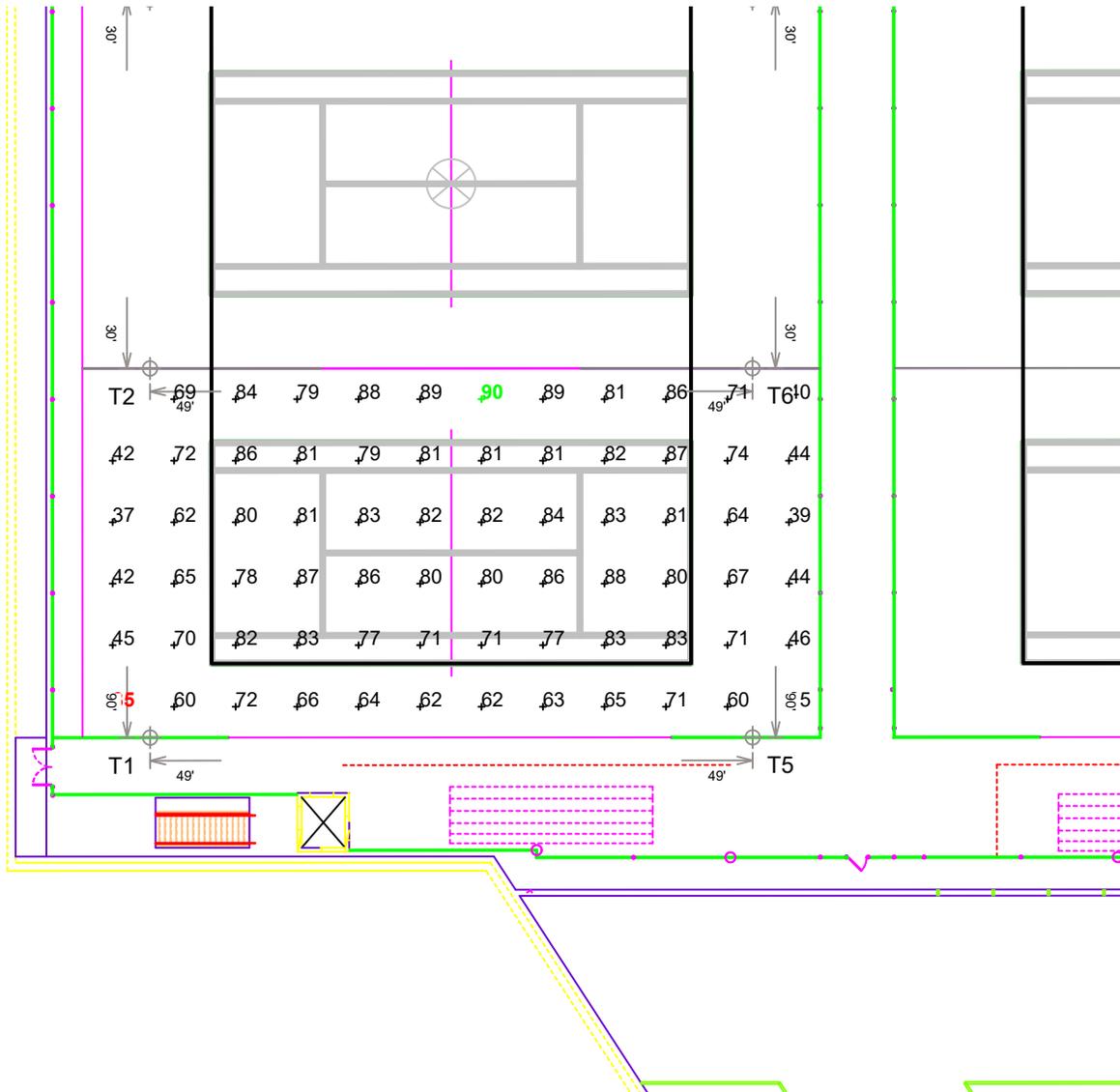
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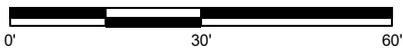
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SCALE IN FEET 1 : 30



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



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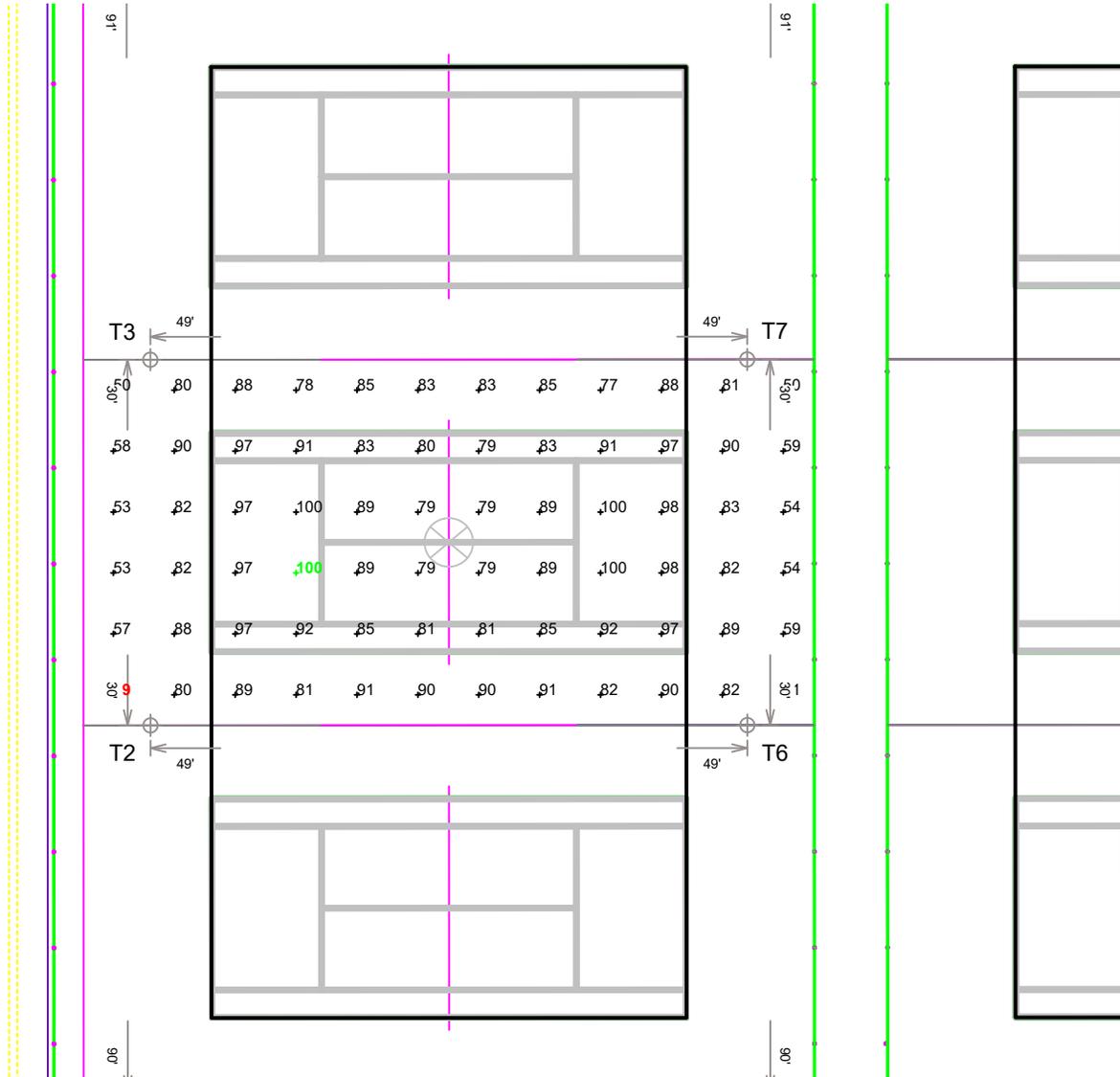
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T1, T4-T5 T8	50'	-	50'	TLC-LED-1150	2	2	0
4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	Court N 2 Area
Size:	3 Court - 24' Spacing
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	81.95		
Maximum:	100		
Minimum:	49		
Avg / Min:	1.66		
Max / Min:	2.03		
UG (adjacent pts):	1.62		
CU:	0.32		
No. of Points:	72		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			



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Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
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4	T2-T3 T6-T7	50'	-	50'	TLC-LED-1150	4	4	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court N 3 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 71.68

Maximum: 91

Minimum: 35

Avg / Min: 2.05

Max / Min: 2.59

UG (adjacent pts): 1.80

CU: 0.28

No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

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

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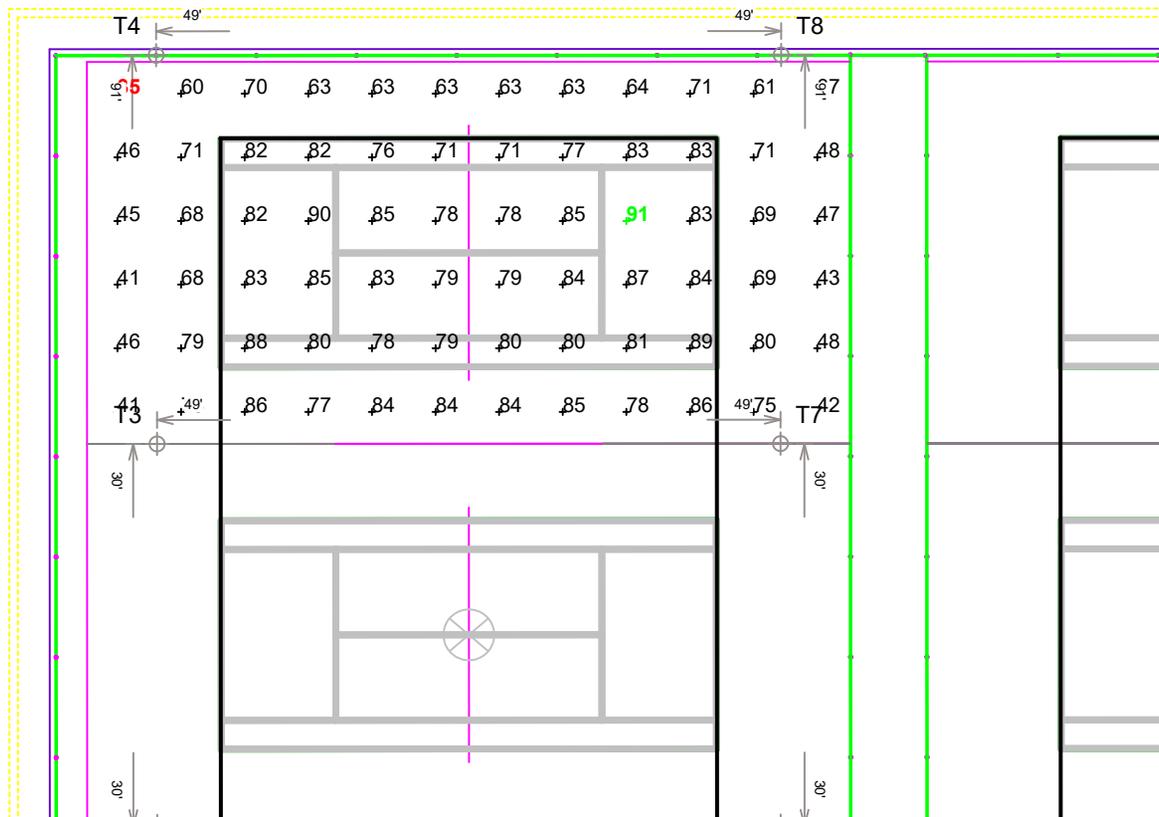
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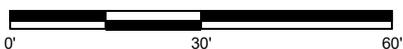


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SCALE IN FEET 1 : 30



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
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Center 1
Size: 3 Court - 24' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 78.64

Maximum: 88

Minimum: 67

Avg / Min: 1.17

Max / Min: 1.32

UG (adjacent pts): 1.18

CU: 0.25

No. of Points: 15

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

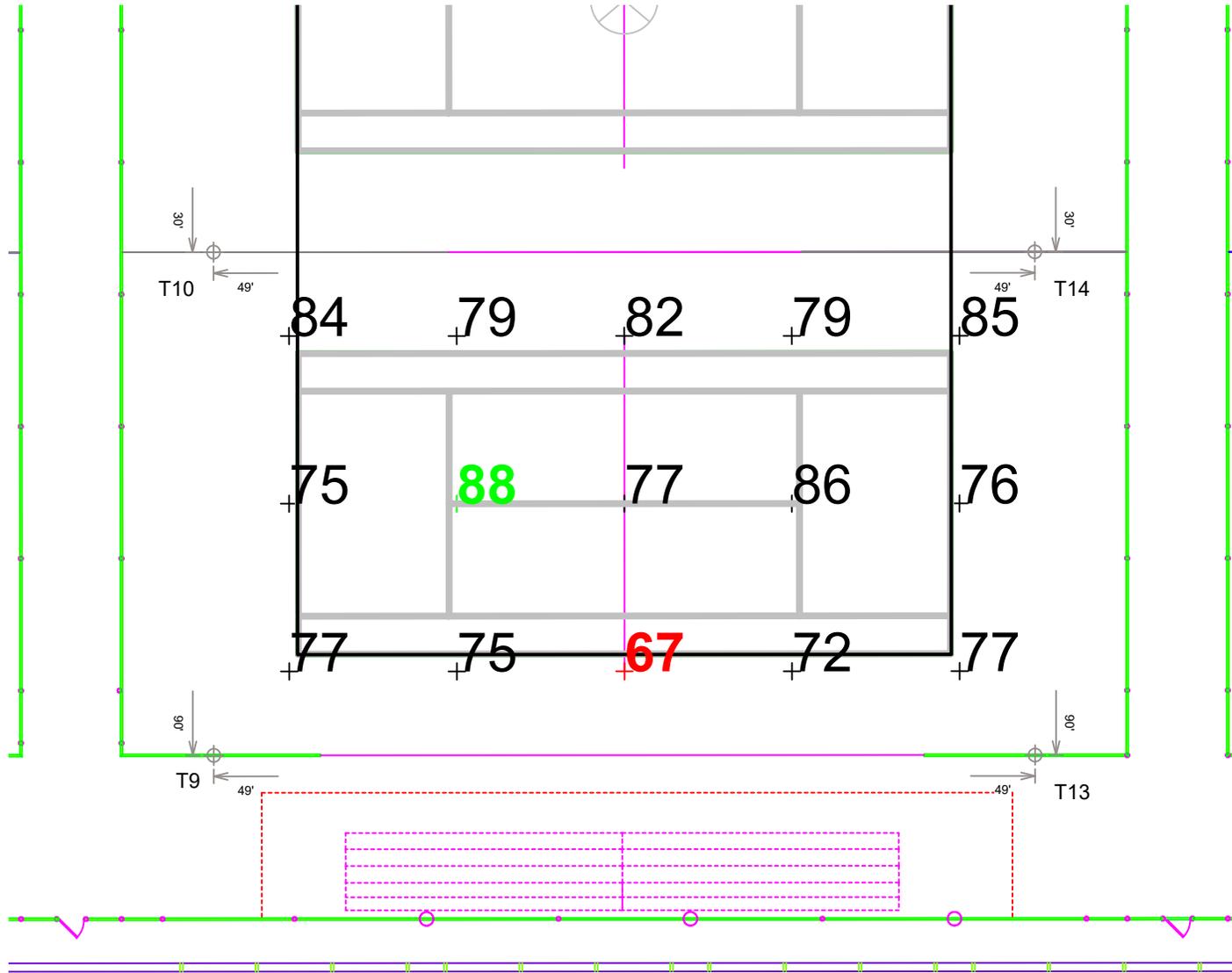
Reported per TM-21-11. See luminaire datasheet for details.

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.



SCALE IN FEET 1 : 20



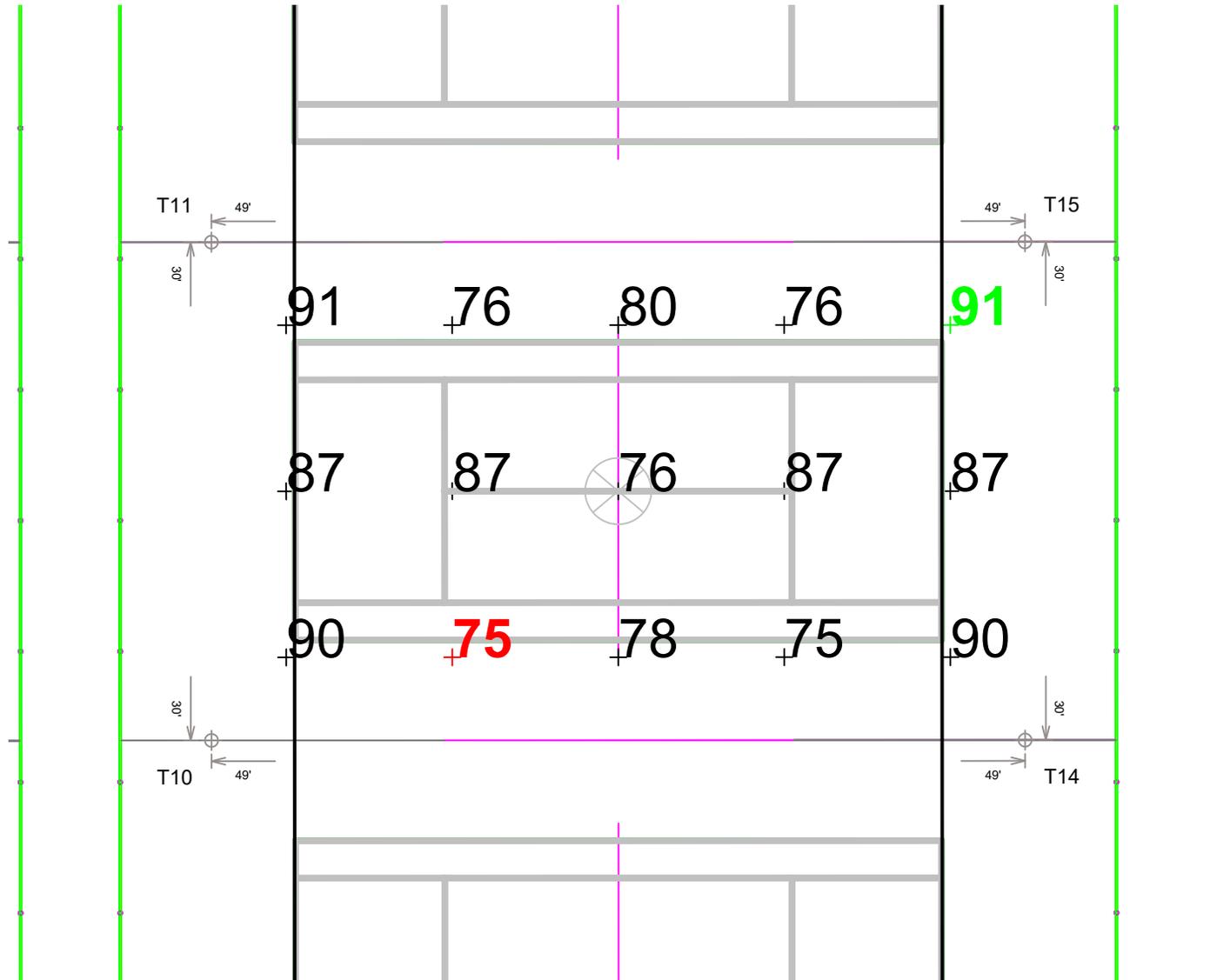
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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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
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0



SCALE IN FEET 1 : 20



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

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY

Name: Center 2
Size: 3 Court - 24' Spacing
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 83.13

Maximum: 91

Minimum: 75

Avg / Min: 1.11

Max / Min: 1.22

UG (adjacent pts): 1.21

CU: 0.27

No. of Points: 15

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

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.

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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.



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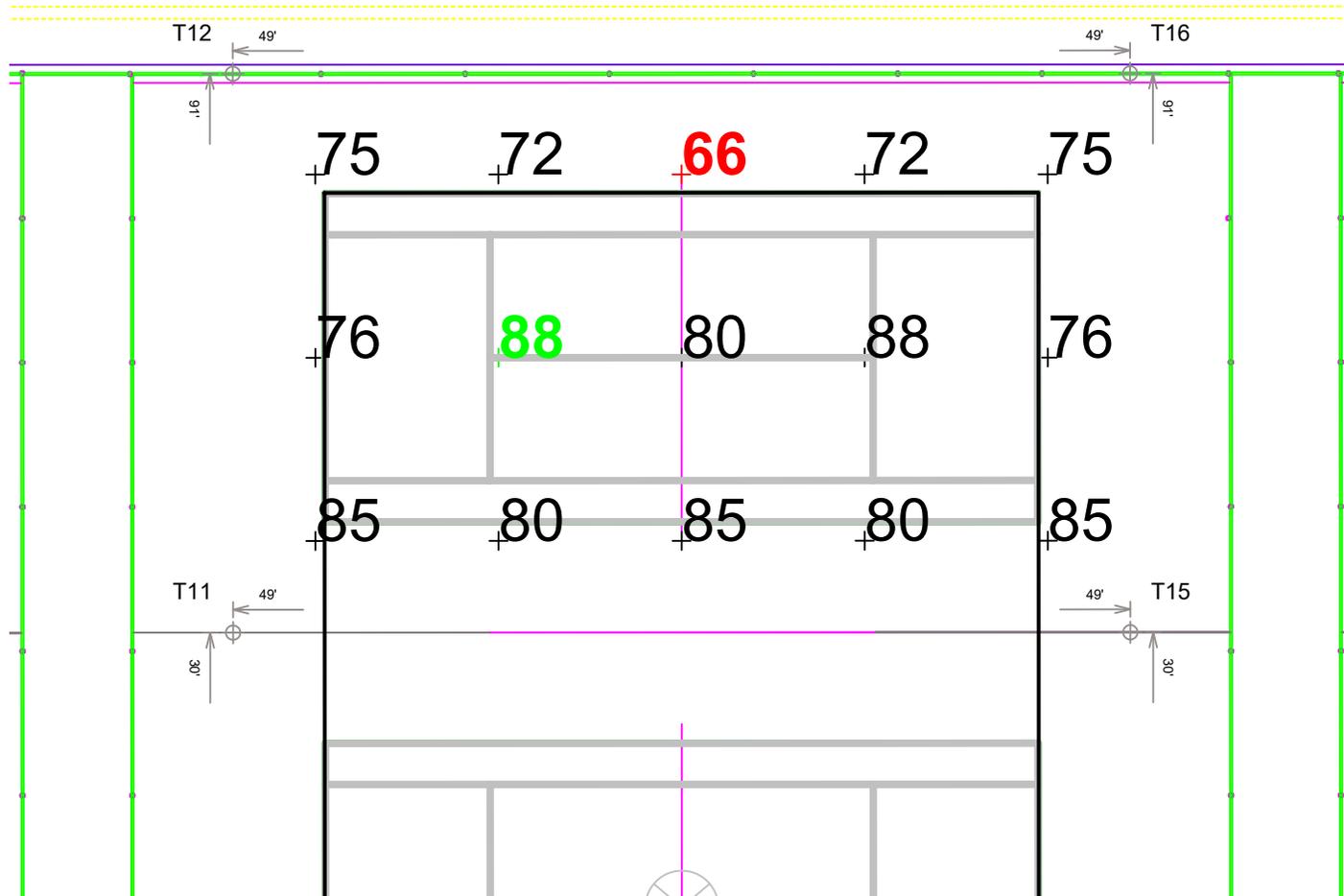
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	Center 3
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	78.88		
Maximum:	88		
Minimum:	66		
Avg / Min:	1.20		
Max / Min:	1.34		
UG (adjacent pts):	1.23		
CU:	0.25		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
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.



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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
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court C 1 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 71.62
 Maximum: 91
 Minimum: 35
 Avg / Min: 2.05
Max / Min: 2.60
 UG (adjacent pts): 1.83
 CU: 0.28
 No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 121,000 lumens
No. of Luminaires: 24
Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

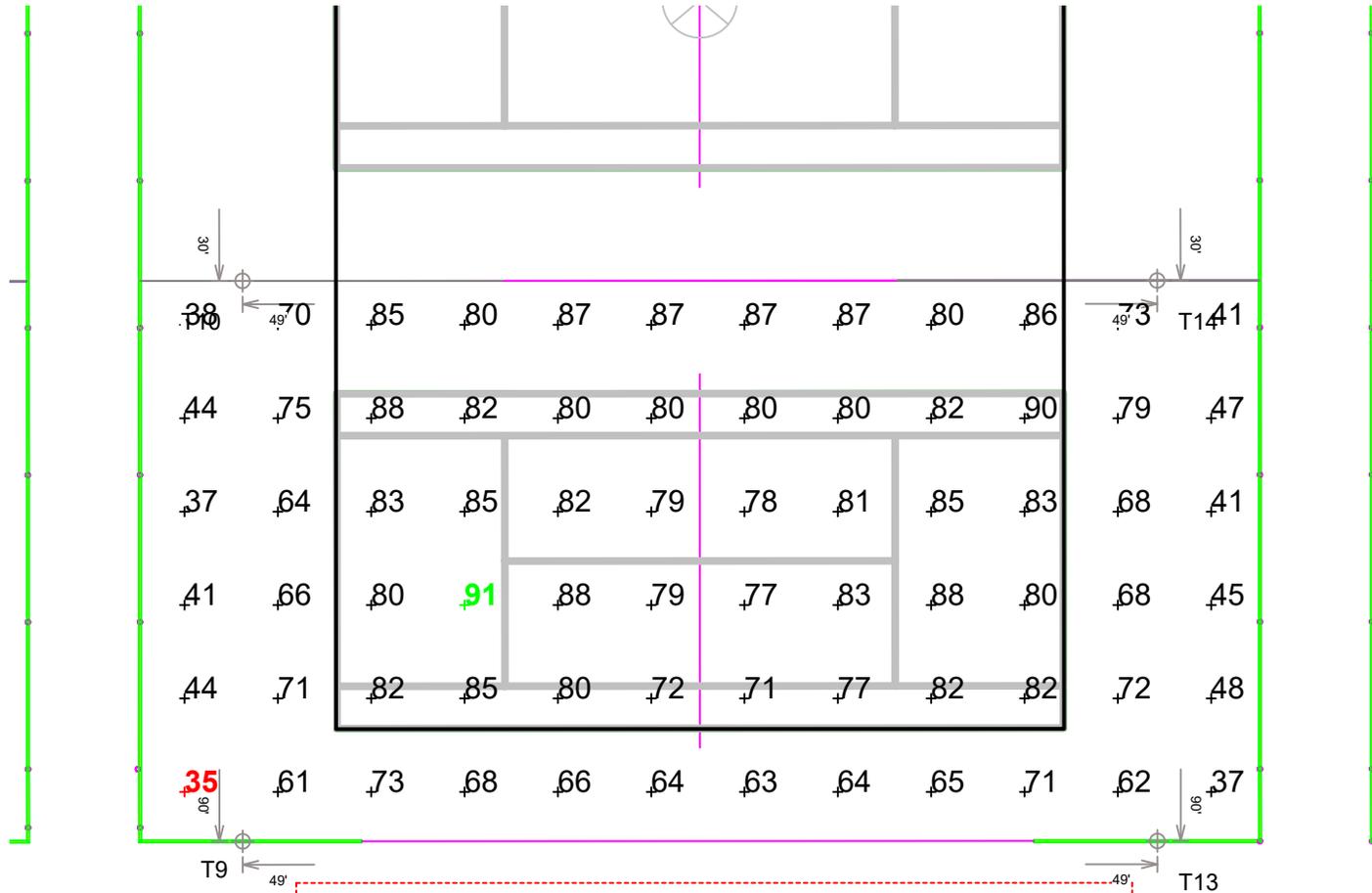
Reported per TM-21-11. See luminaire datasheet for details.

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SCALE IN FEET 1 : 20



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



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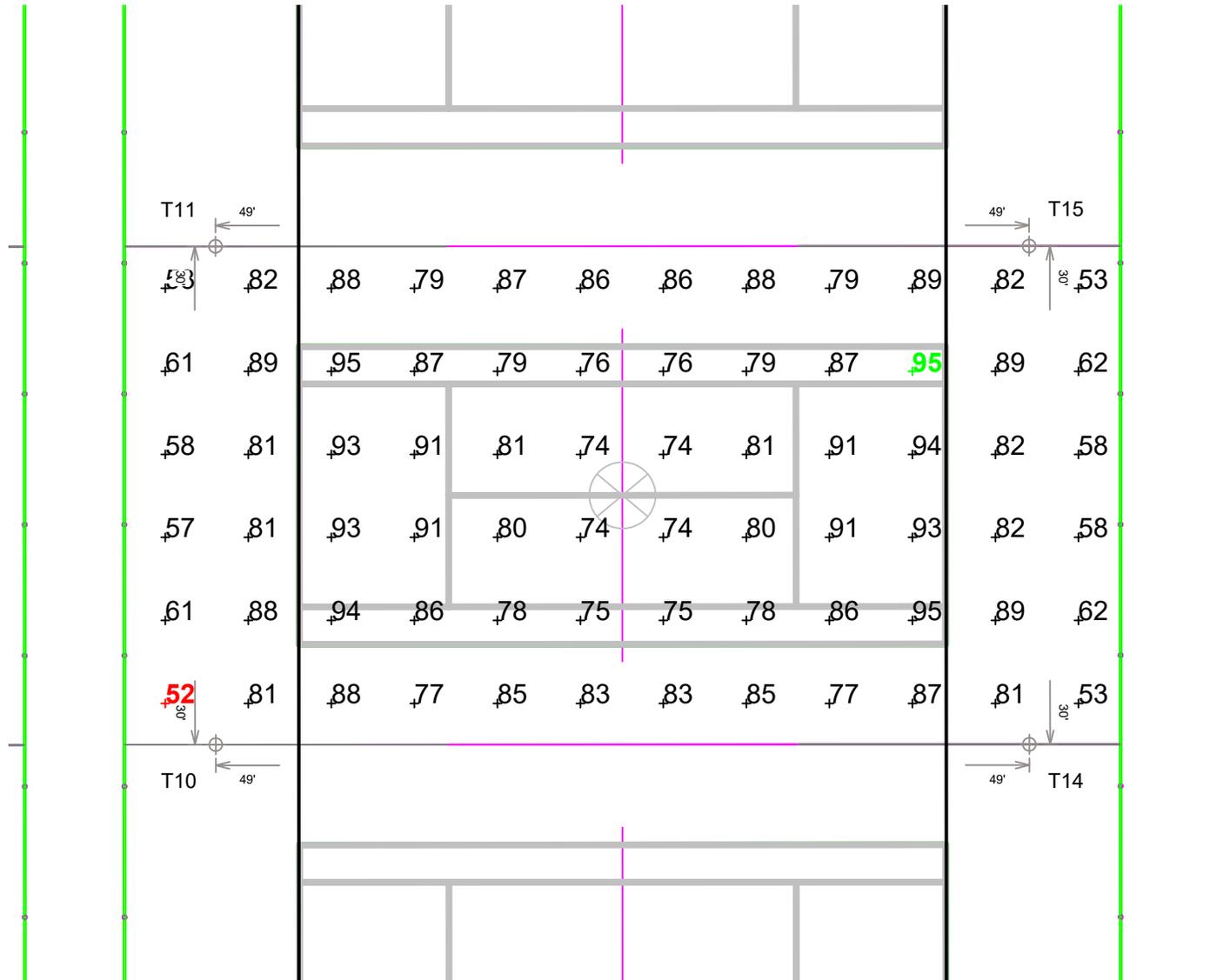
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	Court C 2 Area
Size:	3 Court - 24' Spacing
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	79.70		
Maximum:	95		
Minimum:	52		
Avg / Min:	1.53		
Max / Min:	1.83		
UG (adjacent pts):	1.56		
CU:	0.31		
No. of Points:	72		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
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.

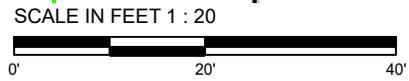
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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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
4	T10-T11 T14-T15	50'	-	50'	TLC-LED-1150	4	4	0
4	T16 T9, T12-T13	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court C 3 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 71.86

Maximum: 90

Minimum: 34

Avg / Min: 2.09

Max / Min: 2.61

UG (adjacent pts): 1.78

CU: 0.28

No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

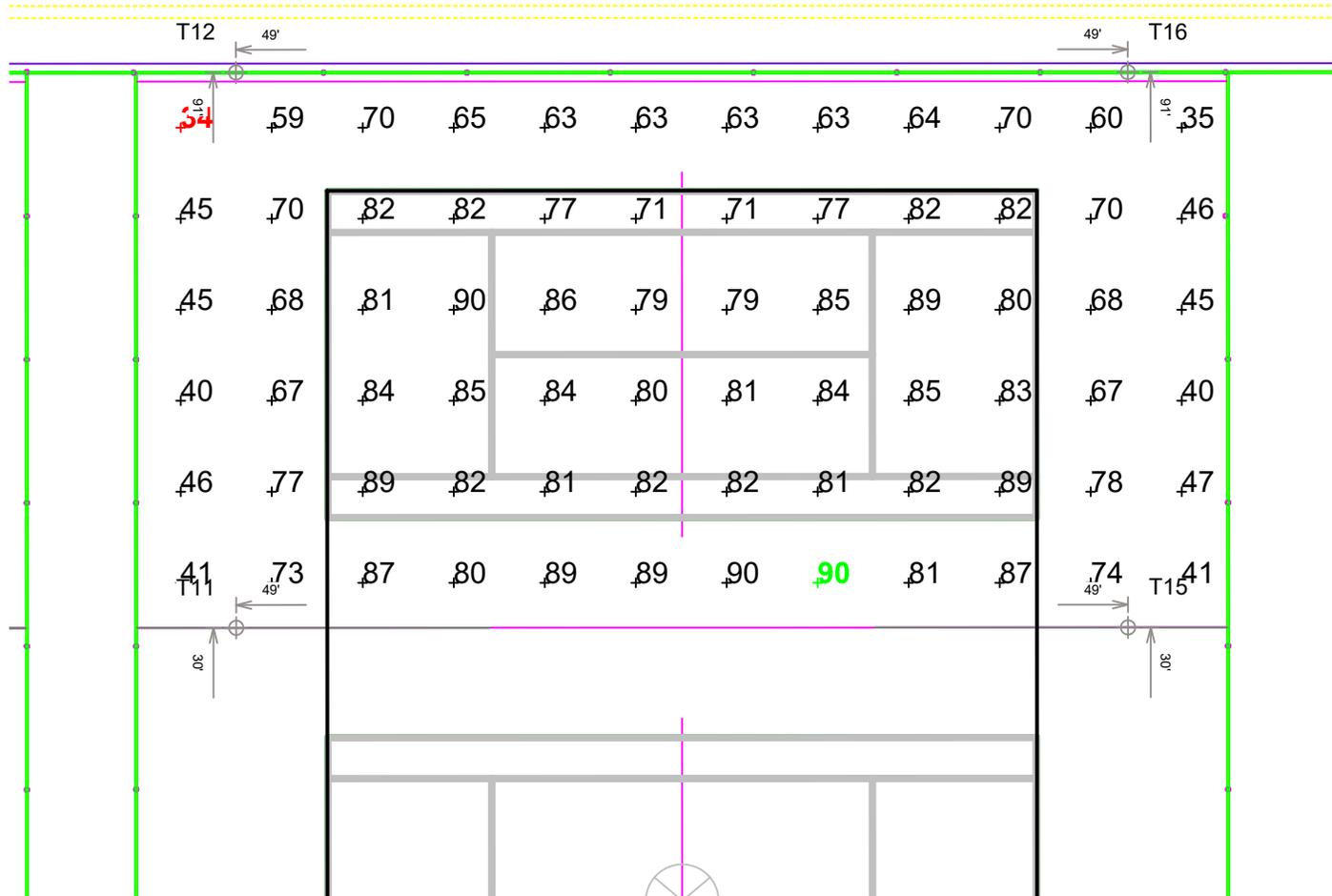
Reported per TM-21-11. See luminaire datasheet for details.

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SCALE IN FEET 1 : 20



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



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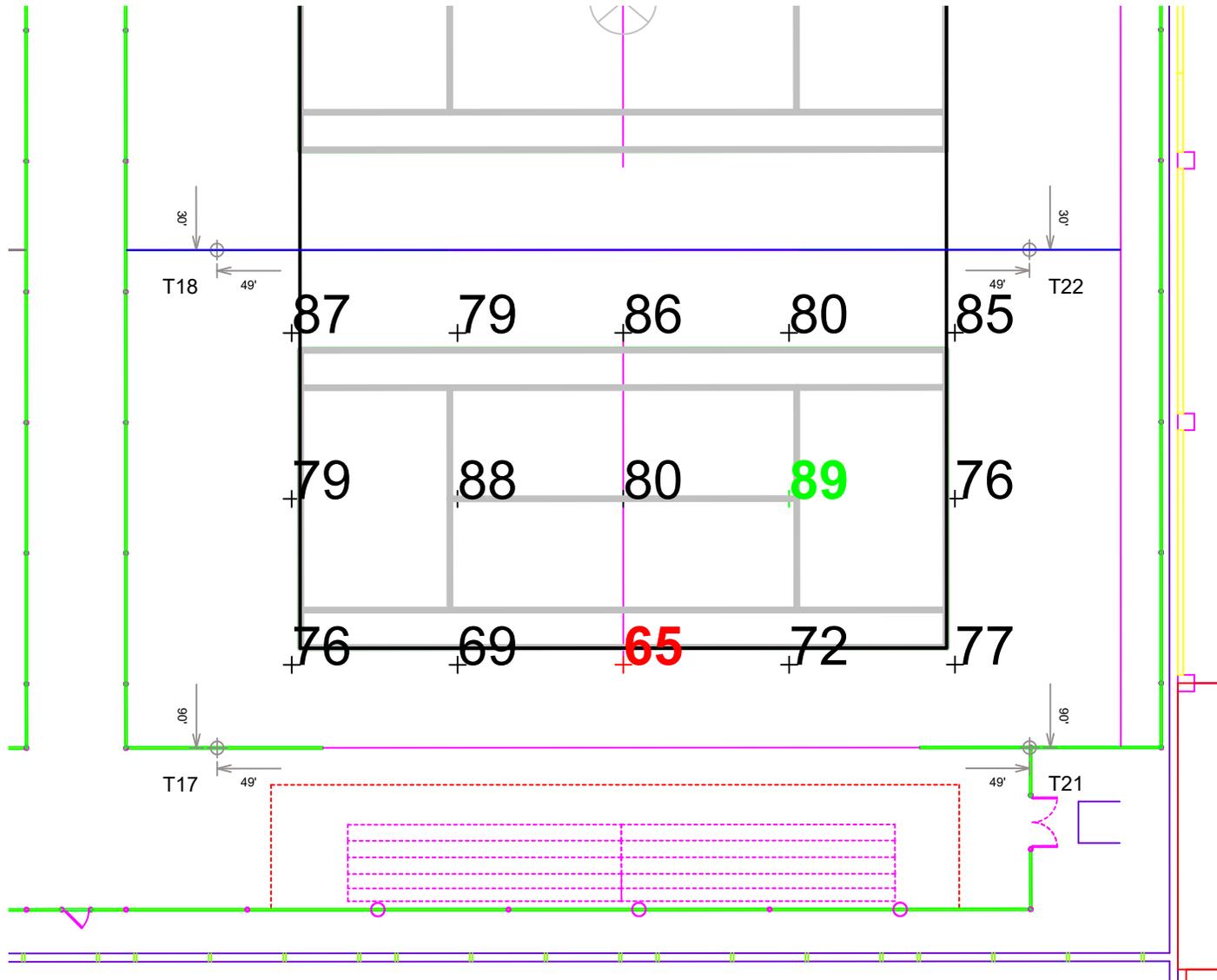
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	South 1
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	79.20		
Maximum:	89		
Minimum:	65		
Avg / Min:	1.22		
Max / Min:	1.37		
UG (adjacent pts):	1.27		
CU:	0.25		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
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.

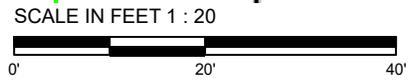
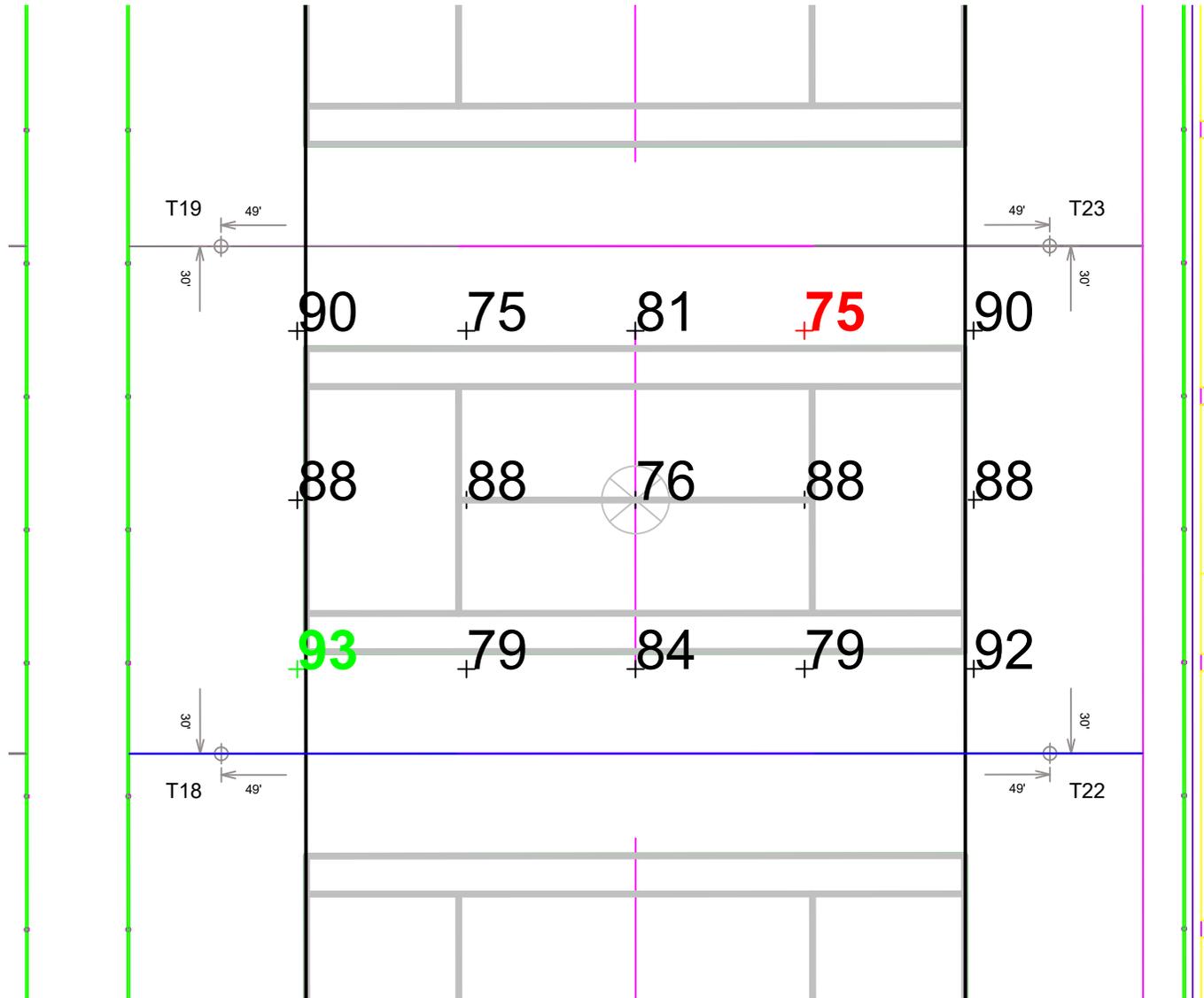
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0



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

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	South 2
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	84.37		
Maximum:	93		
Minimum:	75		
Avg / Min:	1.12		
Max / Min:	1.23		
UG (adjacent pts):	1.19		
CU:	0.27		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			

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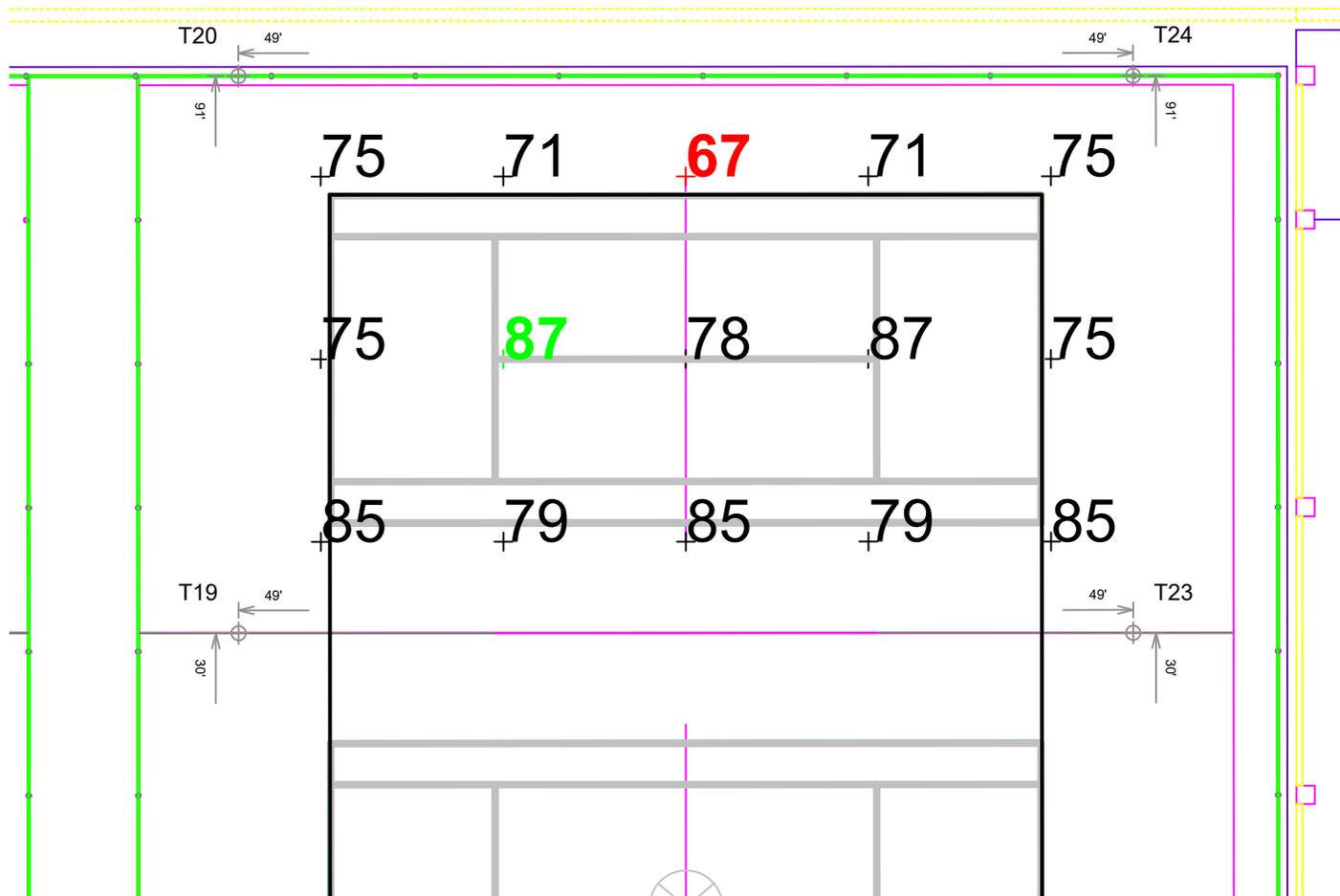
EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

GRID SUMMARY	
Name:	South 3
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	78.24		
Maximum:	87		
Minimum:	67		
Avg / Min:	1.17		
Max / Min:	1.31		
UG (adjacent pts):	1.23		
CU:	0.25		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	24		
Total Load:	27.6 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000
Reported per TM-21-11. See luminaire datasheet for details.			



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



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court S 1 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 72.05

Maximum: 91

Minimum: 33

Avg / Min: 2.17

Max / Min: 2.75

UG (adjacent pts): 1.82

CU: 0.28

No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

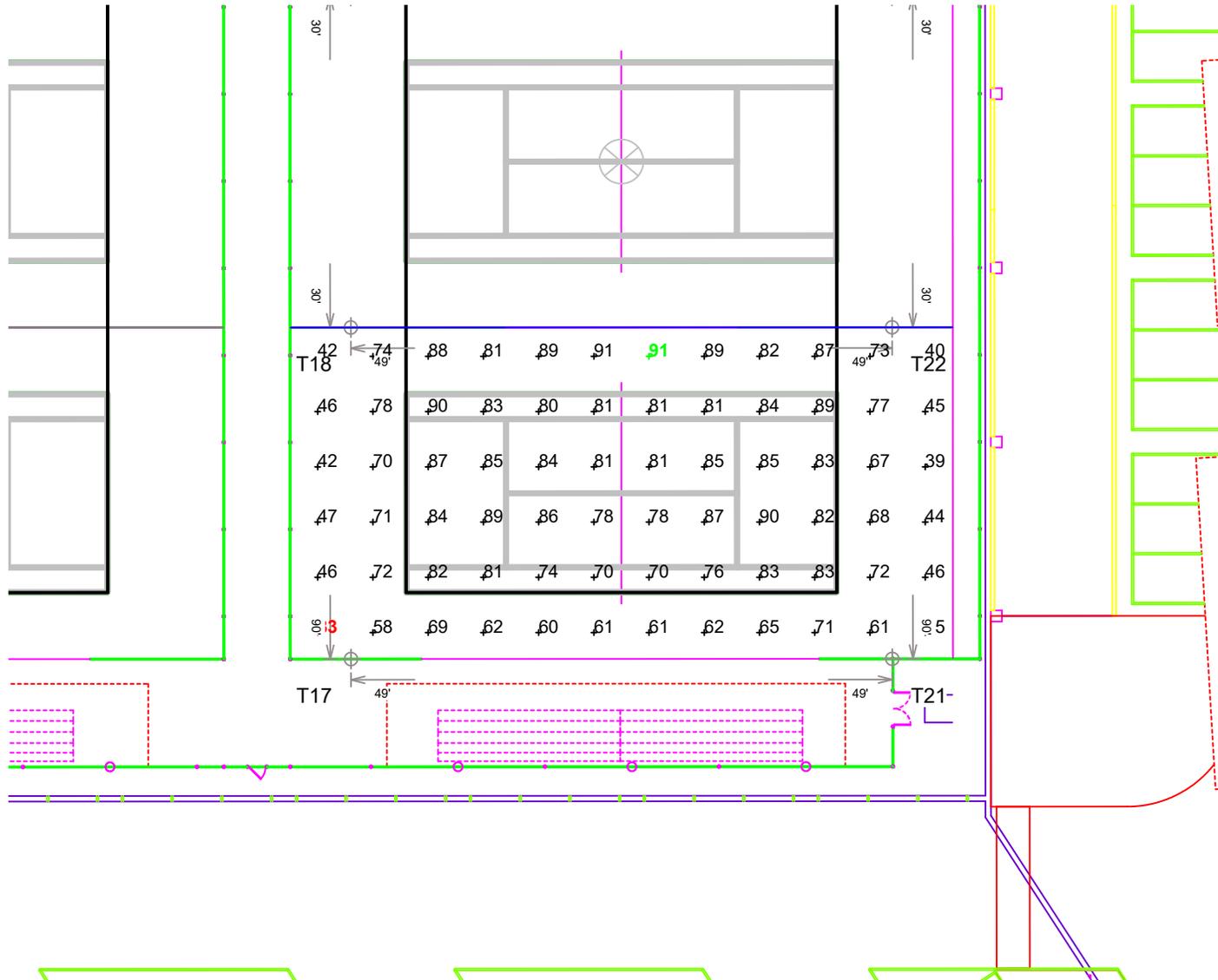
Reported per TM-21-11. See luminaire datasheet for details.

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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.



SCALE IN FEET 1 : 30



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



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court S 2 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 80.68

Maximum: 96

Minimum: 52

Avg / Min: 1.54

Max / Min: 1.83

UG (adjacent pts): 1.56

CU: 0.31

No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

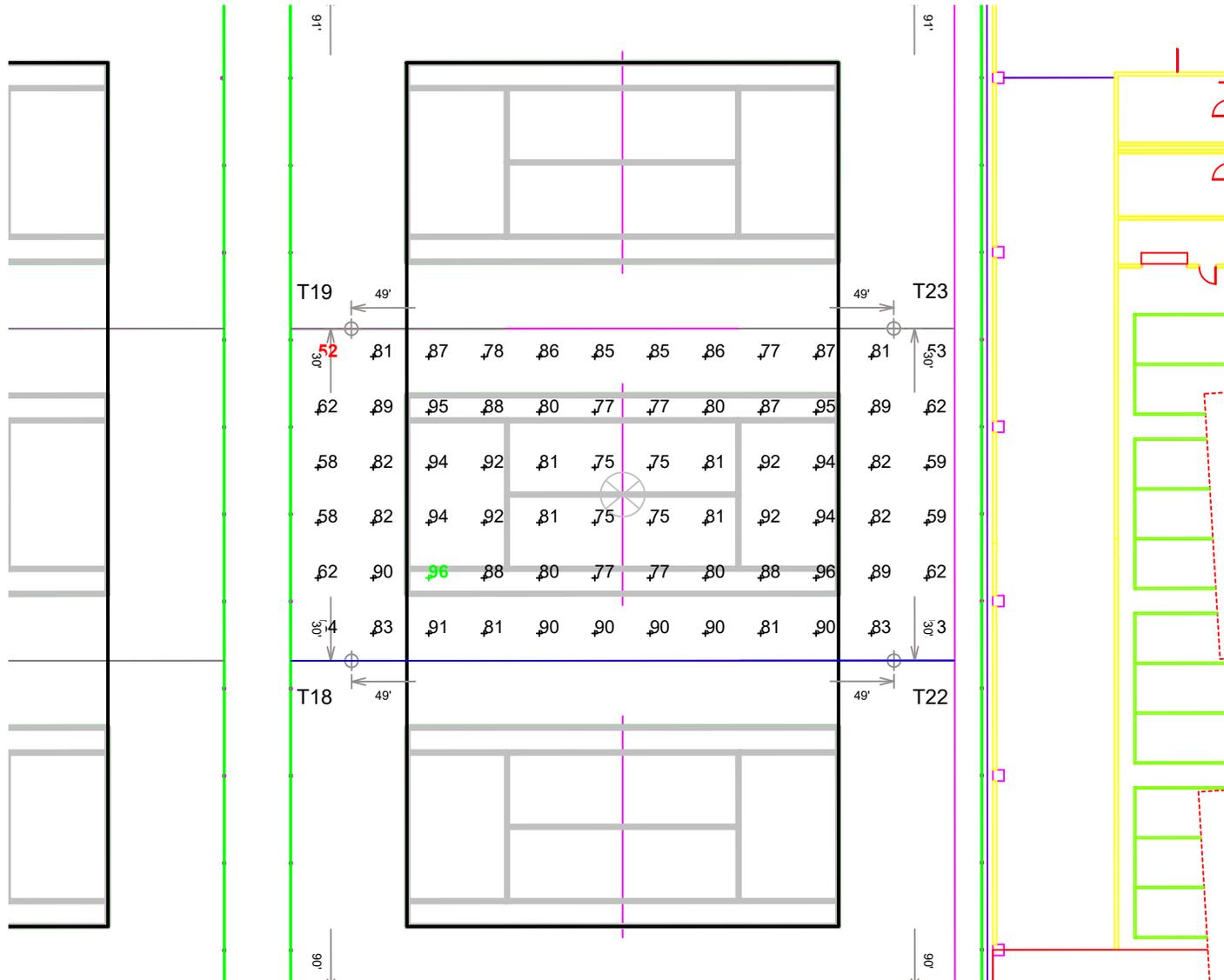
Reported per TM-21-11. See luminaire datasheet for details.

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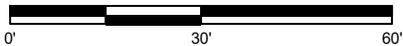
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



SCALE IN FEET 1 : 30



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



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T17, T21	50'	-	50'	TLC-LED-1150	2	2	0
4	T18-T19 T22-T23	50'	-	50'	TLC-LED-1150	4	4	0
2	T20, T24	50'	-	50'	TLC-LED-1150	2	2	0
8	TOTALS					24	24	0

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

GRID SUMMARY

Name: Court S 3 Area
Size: 3 Court - 24' Spacing
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 71.58

Maximum: 88

Minimum: 35

Avg / Min: 2.06

Max / Min: 2.54

UG (adjacent pts): 1.80

CU: 0.28

No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 121,000 lumens

No. of Luminaires: 24

Total Load: 27.6 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>51,000	>51,000	>51,000

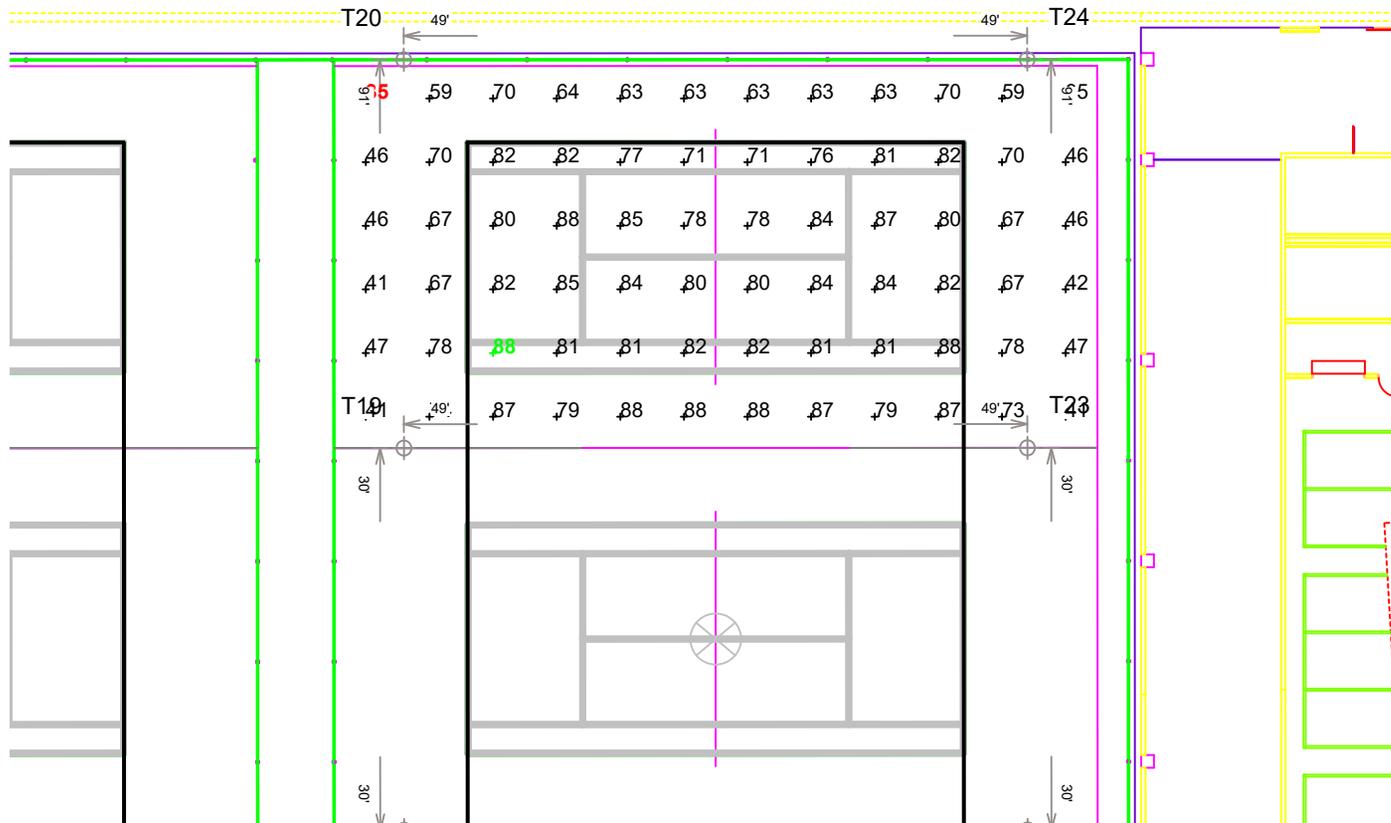
Reported per TM-21-11. See luminaire datasheet for details.

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

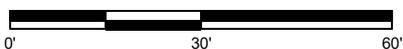
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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 : 30



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[DSA] Mt SAC Tennis Lot R Project
Walnut, CA

EQUIPMENT LAYOUT

INCLUDES:

- Center Tennis 1-3
- North Tennis 1-3
- South 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 driver and structures located within 3 feet (1m) of design locations.



EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole			Luminaires		
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
12	T1, T4-T5 T12-T13 T16-T17 T20-T21 T24 T8-T9	50'	-	50'	TLC-LED-1150	2
12	T10-T11 T14-T15 T18-T19 T2-T3 T22-T23 T6-T7	50'	-	50'	TLC-LED-1150	4
24	TOTALS					72

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1150	6.8	6.5	5.9	5.1	4.1	3.7	3.0



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

[DSA] Mt SAC Tennis Lot R Project

Walnut, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1, T4-T5, T8	50'	50'	2	TLC-LED-1150	2.30 kW	A
T2-T3, T6-T7	50'	50'	4	TLC-LED-1150	4.60 kW	A
T9, T12-T13, T16	50'	50'	2	TLC-LED-1150	2.30 kW	B
T10-T11, T14-T15	50'	50'	4	TLC-LED-1150	4.60 kW	B
T17, T20-T21, T24	50'	50'	2	TLC-LED-1150	2.30 kW	C
T18-T19, T22-T23	50'	50'	4	TLC-LED-1150	4.60 kW	C
24			72		82.80 kW	

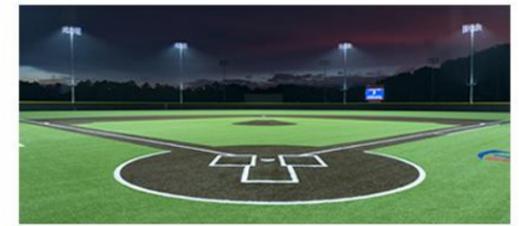
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis 1	27.6 kW	24
B	Tennis 2	27.6 kW	24
C	Tennis 3	27.6 kW	24

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1150	LED 5700K - 75 CRI	1150W	121,000	>63,500	>63,500	>63,500	72

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Center 1	Horizontal Illuminance	78.2	67	87	1.30	1.17	B	24
Center 2	Horizontal Illuminance	83.8	76	91	1.21	1.10	B	24
Center 3	Horizontal Illuminance	78.9	66	88	1.34	1.20	B	24
Center Tennis 1-3	Horizontal Illuminance	80.3	66	91	1.38	1.22	B	24
Court C 1 Area	Horizontal	71.1	34	89	2.64	2.09	B	24
Court C 2 Area	Horizontal	80.4	52	95	1.83	1.55	B	24
Court C 3 Area	Horizontal	71.9	34	90	2.61	2.11	B	24
Court N 1 Area	Horizontal	71.5	35	96	2.74	2.04	A	24
Court N 2 Area	Horizontal	82.8	49	100	2.03	1.69	A	24
Court N 3 Area	Horizontal	72.2	35	96	2.76	2.06	A	24
Court S 1 Area	Horizontal	72	33	92	2.83	2.18	C	24
Court S 2 Area	Horizontal	80.8	52	96	1.83	1.55	C	24
Court S 3 Area	Horizontal	71.6	35	88	2.54	2.05	C	24
North 1	Horizontal Illuminance	78.8	66	90	1.37	1.19	A	24
North 2	Horizontal Illuminance	88.6	77	98	1.27	1.15	A	24
North 3	Horizontal Illuminance	79	67	93	1.39	1.18	A	24
North Tennis 1-3	Horizontal Illuminance	82.1	66	98	1.49	1.24	A	24
Property Line Spill	Horizontal Illuminance	0	0	0	0.00		A,B,C	72
Property Line Spill	Max Vertical Illuminance Metric	0	0	0	0.00		A,B,C	72
South 1	Horizontal Illuminance	79.2	65	88	1.35	1.22	C	24
South 2	Horizontal Illuminance	84.4	75	92	1.22	1.13	C	24
South 3	Horizontal Illuminance	78.2	67	87	1.31	1.17	C	24
South Tennis 1-3	Horizontal Illuminance	80.6	65	92	1.40	1.24	C	24

From Hometown to Professional

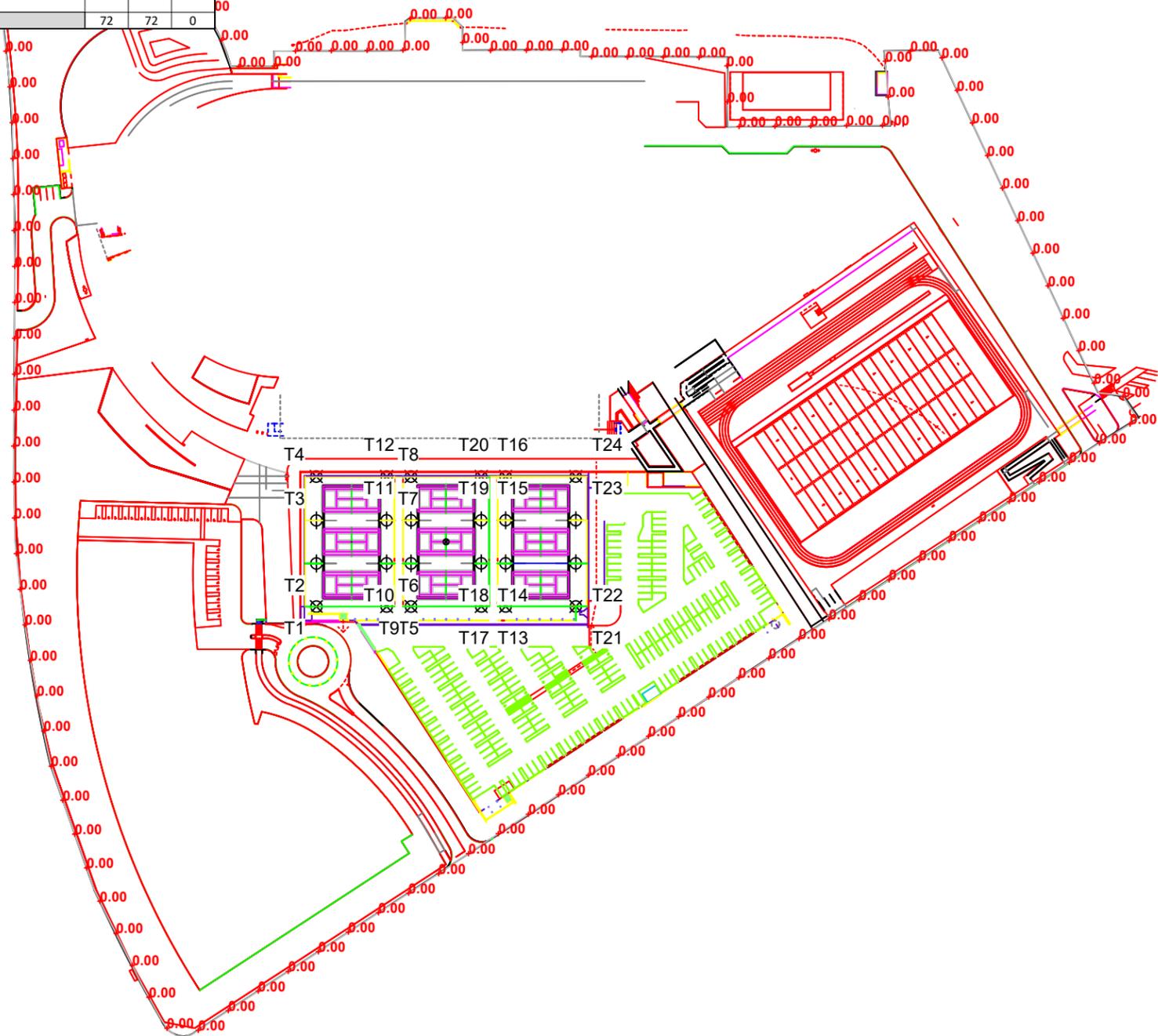


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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
12	T1, T4-T5 T12-T13 T16-T17 T20-T21 T24 T8-T9	50'	12'	62'	TLC-LED-1150	2	2	0
12	T10-T11 T14-T15 T18-T19 T2-T3 T22-T23 T6-T7	50'	12'	62'	TLC-LED-1150	4	4	0
24	TOTALS					72	72	0



GRID SUMMARY	
Name:	Property Line Spill
Spacing:	50.0'
Height:	0.0' above grade

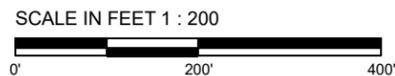
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
		Entire Grid	
Scan Average:	0.0000		
Maximum:	0.00		
Minimum:	0.00		
No. of Points:	107		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	72		
Total Load:	82.8 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>63,500	>63,500	>63,500
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.



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

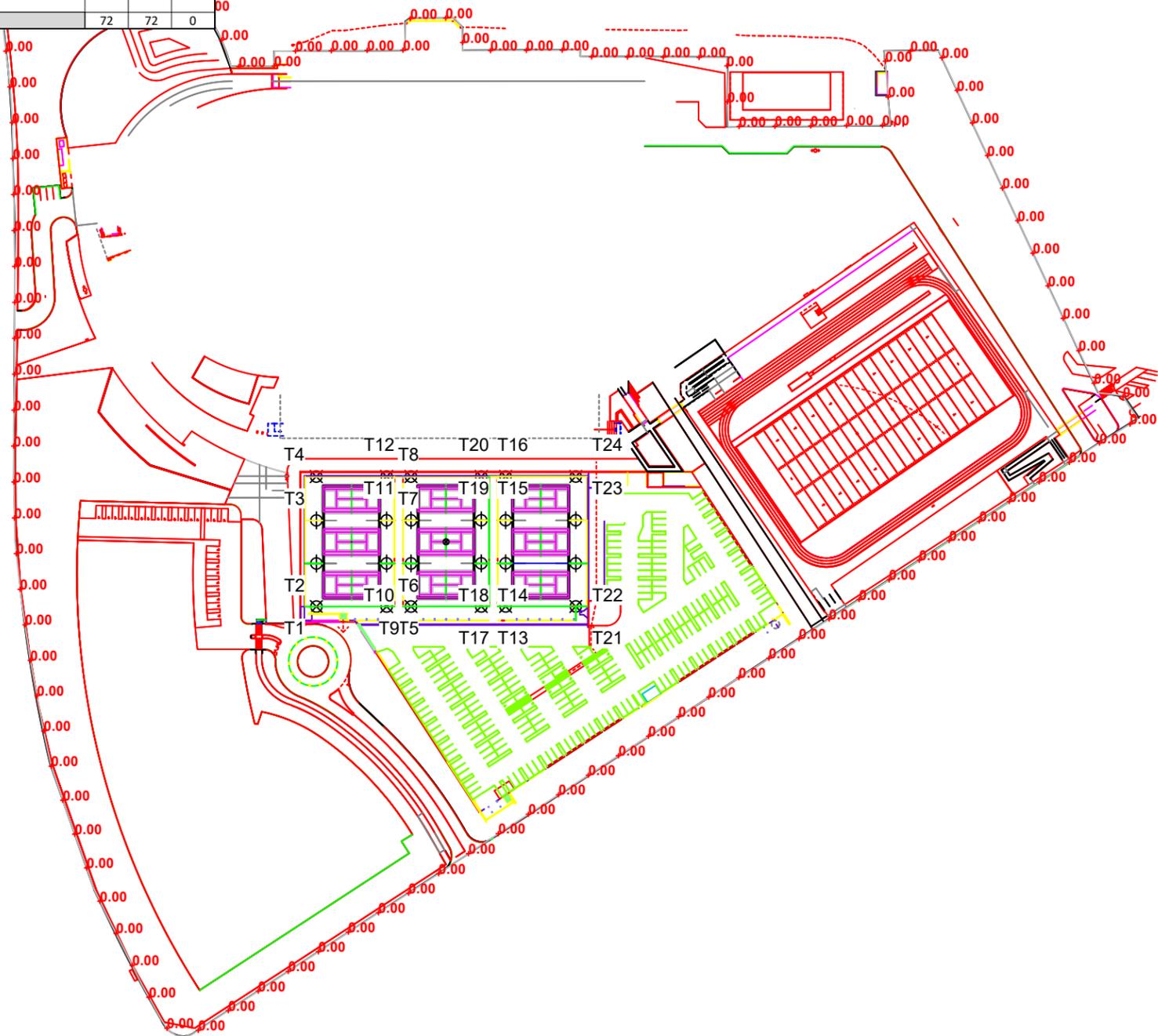


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Pole			Luminaires					
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12	T10-T11 T14-T15 T18-T19 T2-T3 T22-T23 T6-T7	50'	12'	62'	TLC-LED-1150	4	4	0
24	TOTALS					72	72	0



GRID SUMMARY	
Name:	Property Line Spill
Spacing:	50.0'
Height:	0.0' above grade

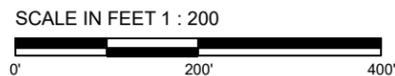
ILLUMINATION SUMMARY			
MAINTAINED MAX VERTICAL FOOTCANDLES			
Entire Grid			
Scan Average:	0.0000		
Maximum:	0.00		
Minimum:	0.00		
No. of Points:	107		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	121,000 lumens		
No. of Luminaires:	72		
Total Load:	82.8 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1150	>63,500	>63,500	>63,500
Reported per TM-21-11. See luminaire datasheet for details.			

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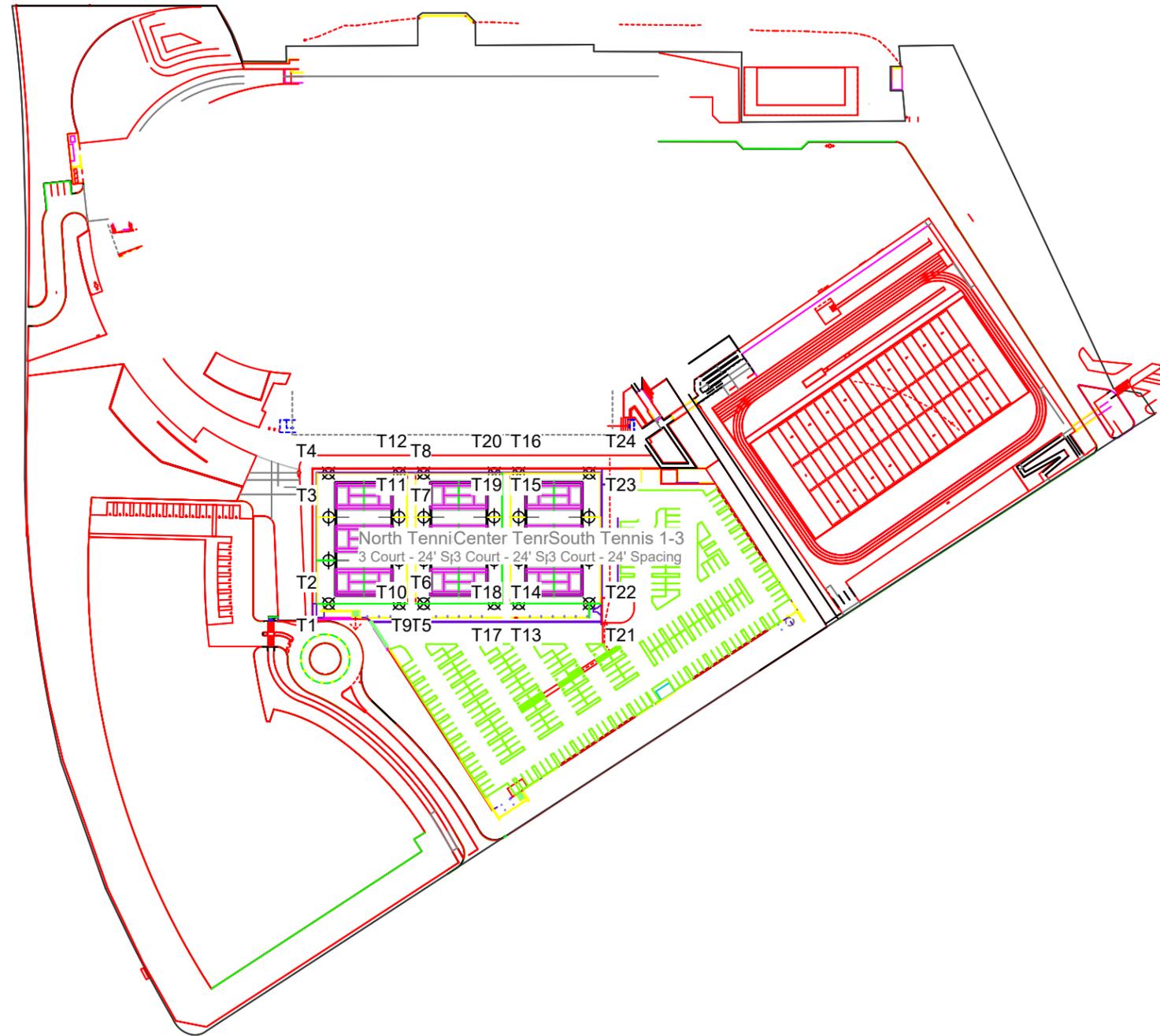
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EQUIPMENT LAYOUT

INCLUDES:

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12	T10-T11 T14-T15 T18-T19 T22-T23 T6-T7	50'	-	50'	TLC-LED-1150	4
24	TOTALS					72

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast 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)
TLC-LED-1150	6.8	6.5	5.9	5.1	4.1	3.7	3.0



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



GLARE IMPACT
Summary

Map indicates the maximum candela an observer would see when facing the brightest light source from any direction.

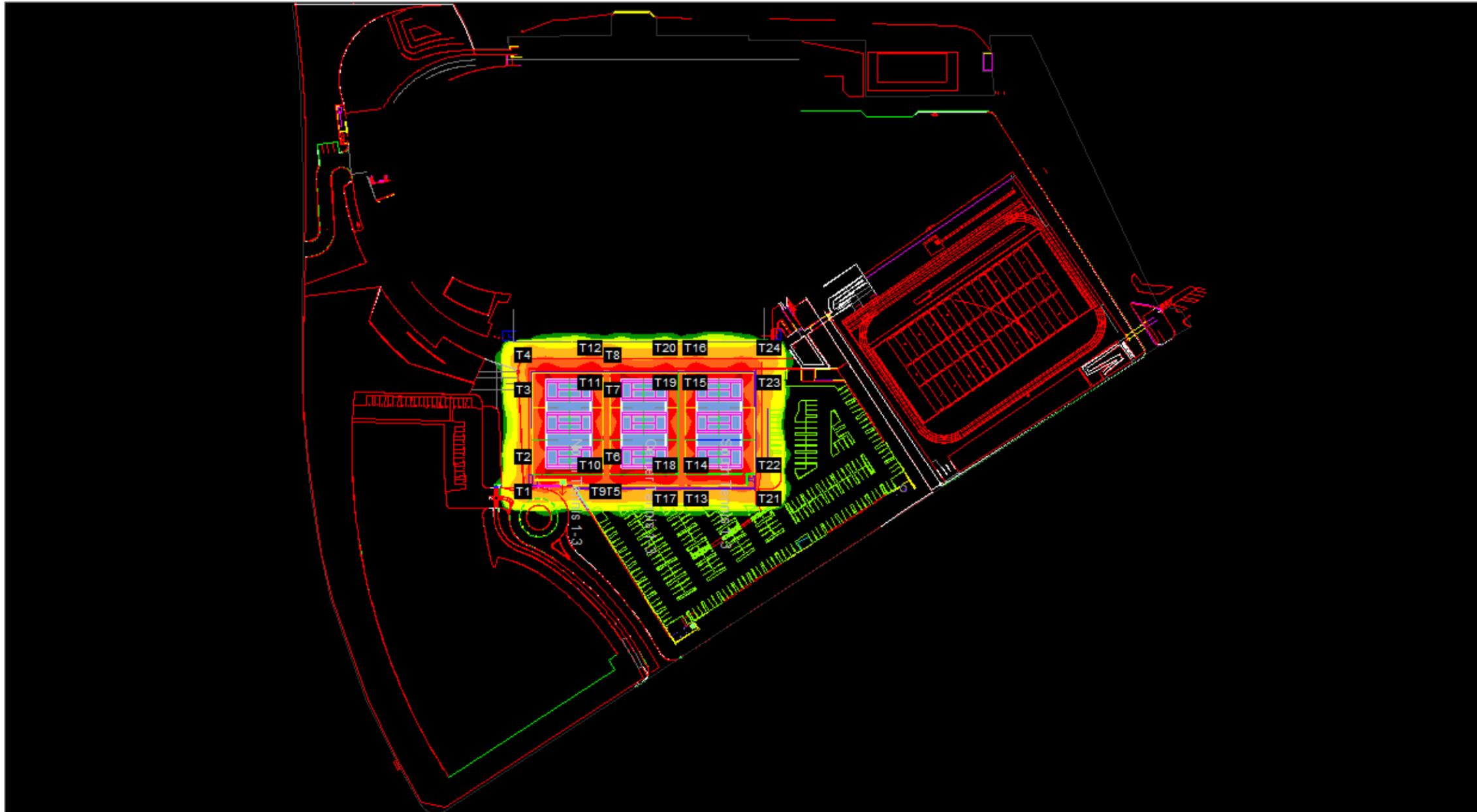
A well-designed lighting system controls light to provide maximum useful on-field illumination with minimal destructive off-site glare.

GLARE
Candela Levels

High Glare: 150,000 or more candela
Should only occur on or very near the lit area where the light source is in direct view. Care must be taken to minimize high glare zones.

Significant Glare: 25,000 to 75,000 candela
Equivalent to high beam headlights of a car.

Minimal to No Glare: 500 or less candela
Equivalent to 100W incandescent light bulb.



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