

Scotland Hall Road MCFC

Manchester,North West

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	10.0	9.2	2	TLC-LED-400	0.80 kW	A
P2	10.0	9.2	1	TLC-LED-400	0.40 kW	A
P3	10.0	9.2	1	TLC-LED-400	0.40 kW	A
		7.5	1	CREE OSQ	0.13 kW	B
P4	10.0	9.2	2	TLC-LED-400	0.80 kW	A
		7.5	1	CREE OSQ	0.13 kW	B
P5-P8	1.0	1.0	1	CREE PWY	0.03 kW	B
8			12		2.80 kW	

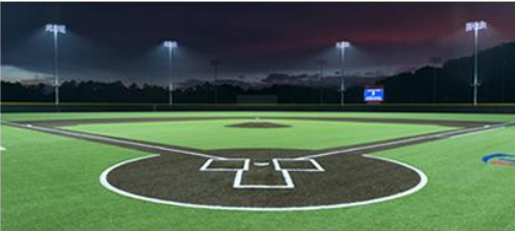
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A		2.4 kW	6
B		0.4 kW	6

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
CREE PWY	LED 5700K - 70 CRI	34W	2,301	--	--	--	4
CREE OSQ	LED 5700K - 70 CRI	130W	16,599	--	--	--	2
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>81,000	>81,000	>81,000	6

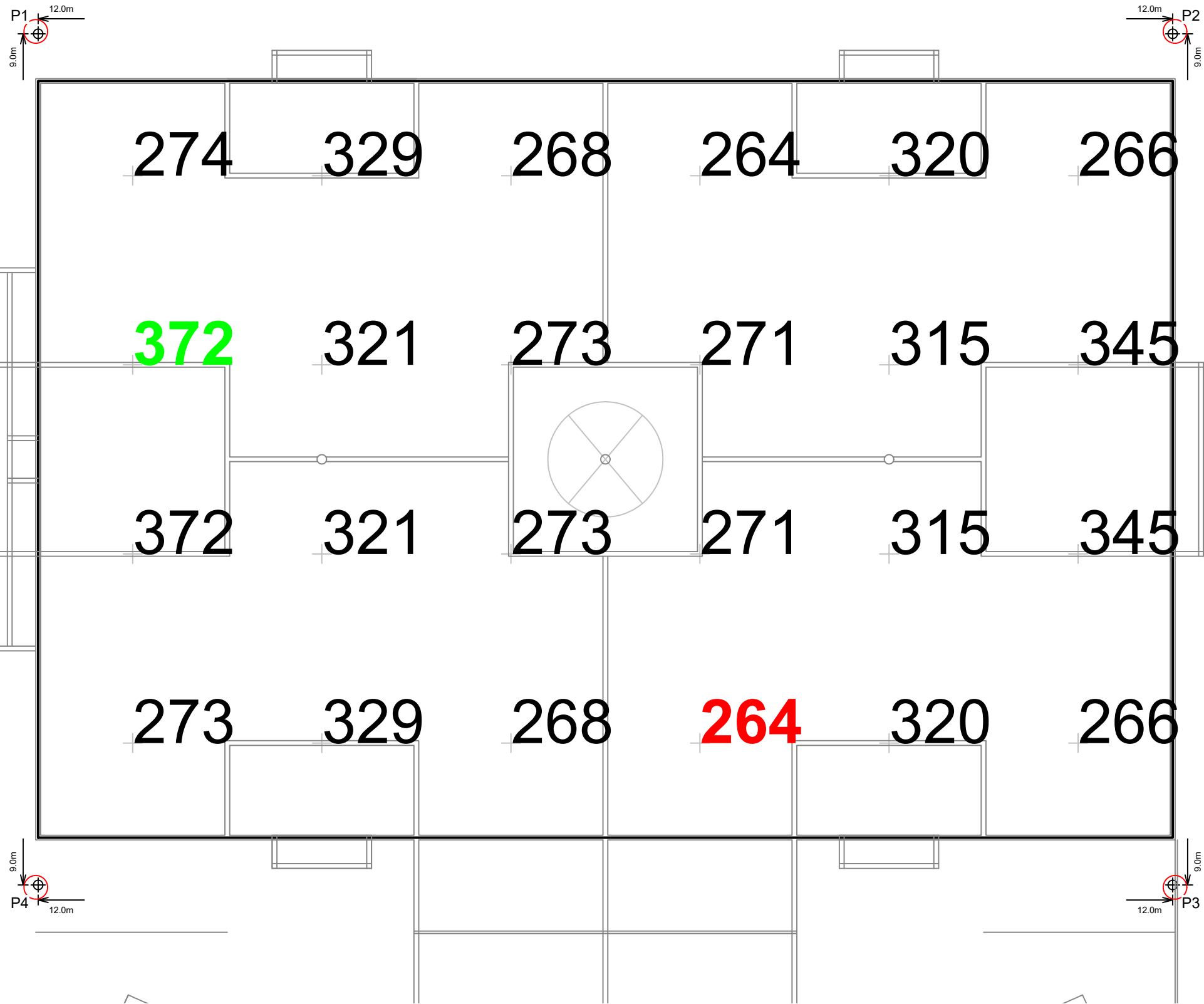
Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
Ancillary Area	Horizontal	247	160	357	0.45	0.65	A	6
Mini Football Spill	Horizontal Illuminance	7.38	0	363	0.00	0.00	A,B	12
Mini Football	Horizontal Illuminance	301	264	372	0.71	0.88	A	6
Pathway	Horizontal	29	3	147	0.02	0.10	B	6

From Hometown to Professional



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P1	10m	-	10m	TLC-LED-400	2	2	0
1	P2	10m	-	10m	TLC-LED-400	1	1	0
1	P3	10m	-	7.5m	CREE OSQ	1	0	1
				10m	TLC-LED-400	1	1	0
1	P4	10m	-	7.5m	CREE OSQ	1	0	1
				10m	TLC-LED-400	2	2	0
4	TOTALS					8	6	2



Scotland Hall Road MCFC

Manchester, North West

GRID SUMMARY	
Name:	Mini Football
Size:	24.0m x 16.0m
Spacing:	4.0m x 4.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	200		
Scan Average:	301.46		
Maximum:	372		
Minimum:	264		
Guaranteed Min / Avg:	0.6		
Min / Avg:	0.87		
Min / Max:	0.71		
UG (adjacent pts):	1.36		
CU:	0.45		
No. of Points:	24		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 lumens		
No. of Luminaires:	6		
Total Load:	2.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2020 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P1	10m	-	10m	TLC-LED-400	2	2	0
1	P2	10m	-	10m	TLC-LED-400	1	1	0
1	P3	10m	-	7.5m	CREE OSQ	1	0	1
				10m	TLC-LED-400	1	1	0
1	P4	10m	-	7.5m	CREE OSQ	1	0	1
				10m	TLC-LED-400	2	2	0
4	TOTALS					8	6	2

Scotland Hall Road MCFC
Manchester, North West

GRID SUMMARY	
Name:	Ancillary Area
Spacing:	4.0m x 4.0m
Height:	1.0m above grade

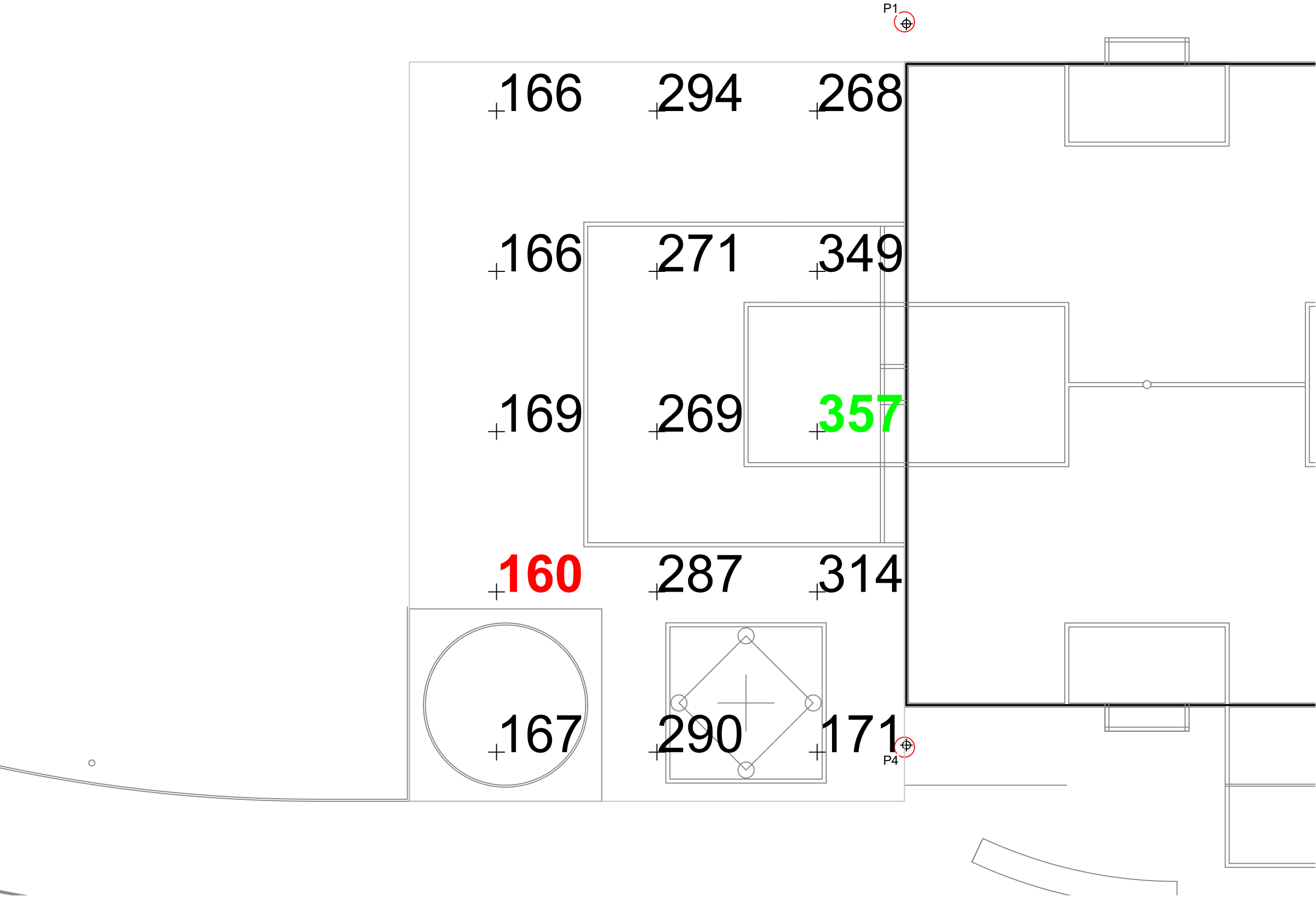
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
Scan Average:	Entire Grid 246.50		
Maximum:	357		
Minimum:	160		
Min / Avg:	0.65		
Min / Max:	0.45		
UG (adjacent pts):	1.84		
CU:	0.23		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 lumens		
No. of Luminaires:	6		
Total Load:	2.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
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.

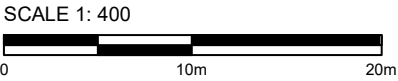
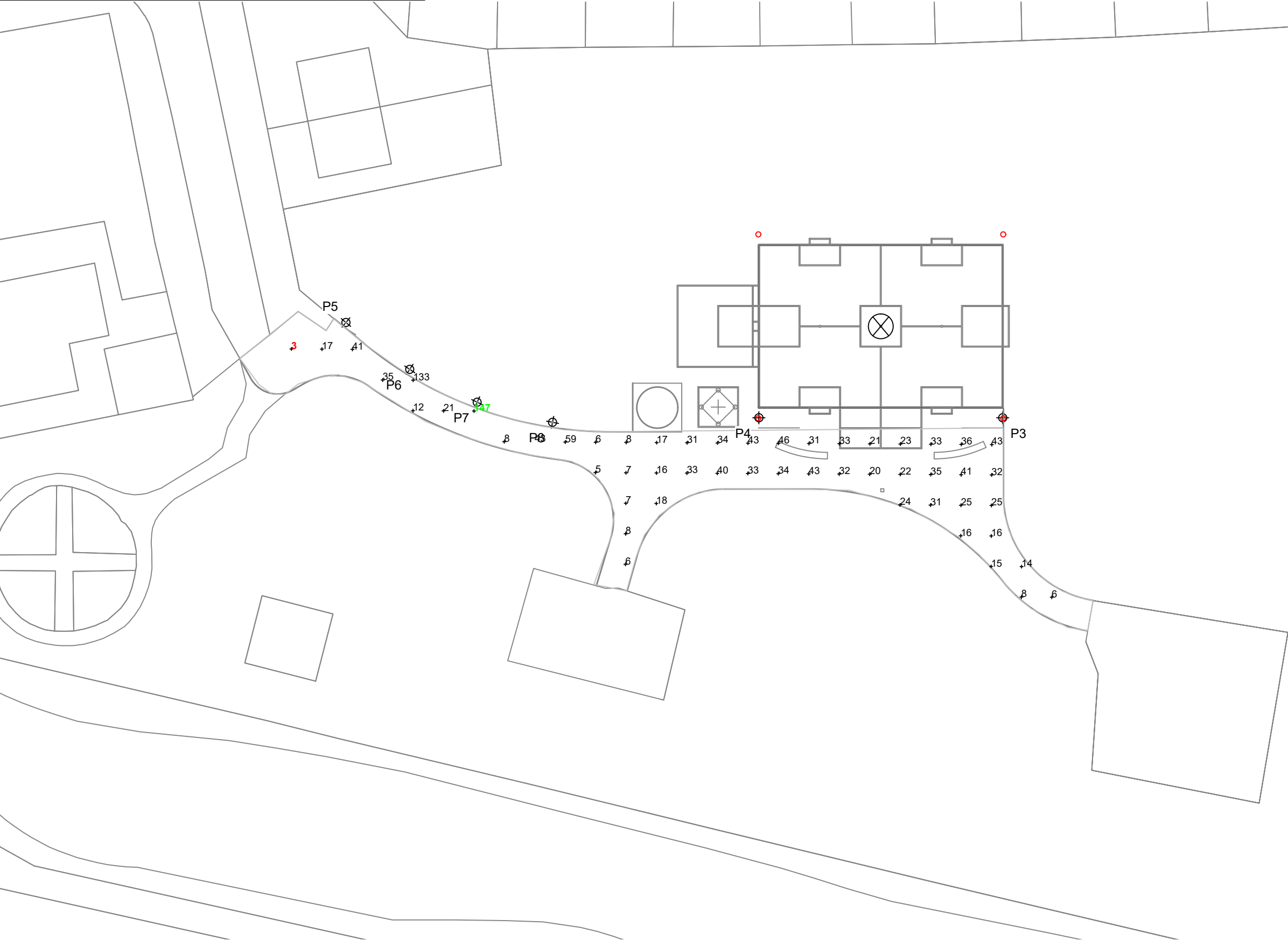
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P3	10m	-	7.5m	CREE OSQ	1	1	0
				10m	TLC-LED-400	1	0	1
1	P4	10m	-	7.5m	CREE OSQ	1	1	0
				10m	TLC-LED-400	2	0	2
4	P5-P8	1.0m	-	1.2m	CREE PWY	1	1	0
6	TOTALS					9	6	3



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

Scotland Hall Road MCFC
Manchester,North West

GRID SUMMARY	
Name:	Pathway
Spacing:	3.0m x 3.0m
Height:	0.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Scan Average:	28.96		
Maximum:	147		
Minimum:	3		
Min / Avg:	0.10		
Min / Max:	0.02		
UG (adjacent pts):	11.32		
CU:	0.32		
No. of Points:	53		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 70 CRI		
Luminaire Output:	2,301 / 16,599 lumens		
No. of Luminaires:	6		
Total Load:	0.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
CREE PWY	--	--	--
CREE OSQ	--	--	--
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.

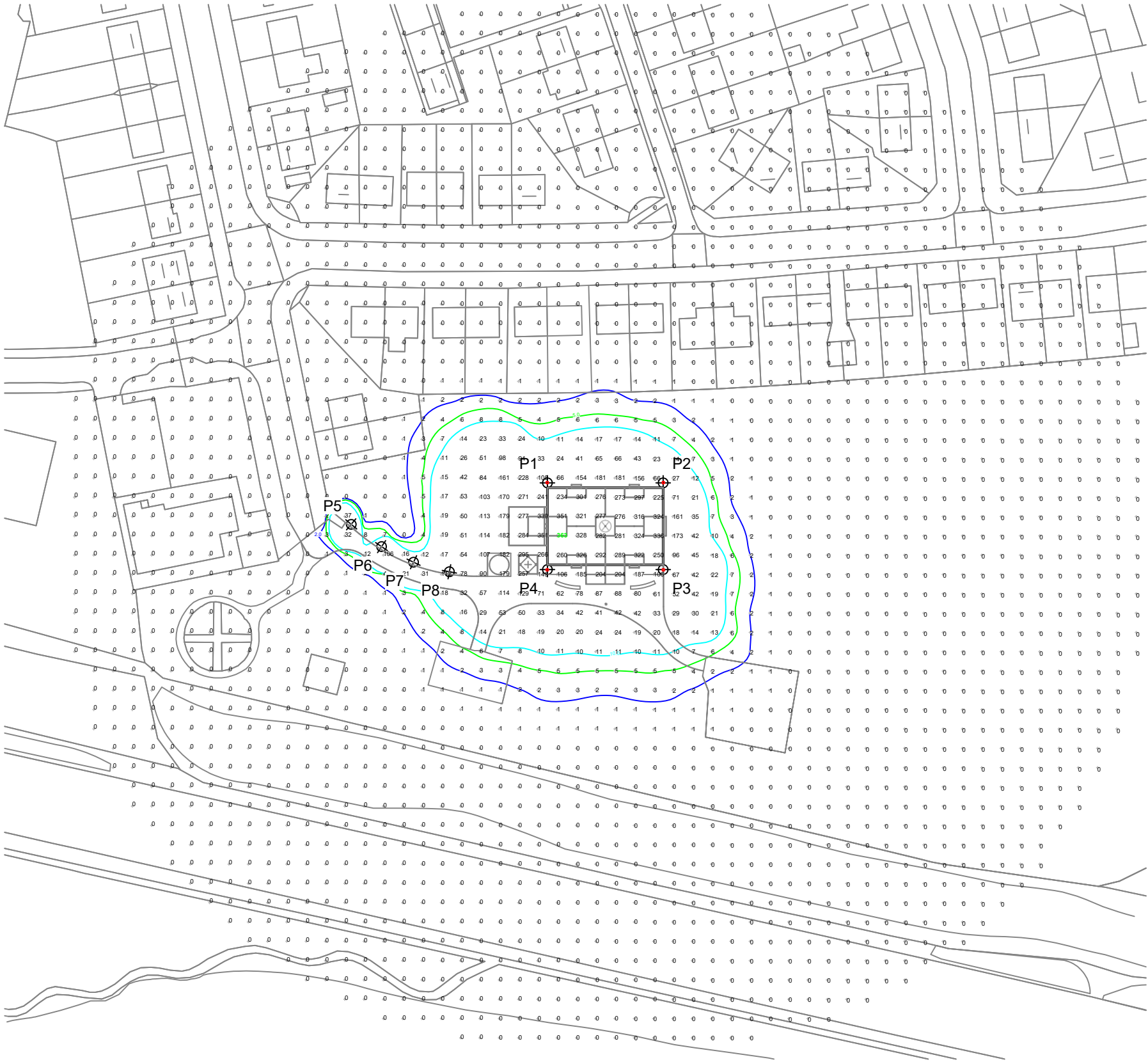
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2020 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P1	10m	-	10m	TLC-LED-400	2	2	0
1	P2	10m	-	10m	TLC-LED-400	1	1	0
1	P3	10m	-	7.5m	CREE OSQ	1	1	0
				10m	TLC-LED-400	1	1	0
1	P4	10m	-	7.5m	CREE OSQ	1	1	0
				10m	TLC-LED-400	2	2	0
4	P5-P8	1.0m	-	1.2m	CREE PWY	1	1	0
8	TOTALS					12	12	0



Scotland Hall Road MCFC

Manchester,North West

GRID SUMMARY	
Name:	Mini Football Spill
Size:	24.0m x 16.0m
Spacing:	4.0m x 4.0m
Height:	0.0m above grade

ILLUMINATION SUMMARY

HORIZONTAL LUX

Scan Average:

Maximum:

Minimum:

CU:

No. of Points:

Entire Grid

7.3762

363.09

0.00

0.99

2500

LUMINAIRE INFORMATION

Color / CRI:

Luminaire Output:

No. of Luminaires:

Total Load:

5700K - 70 CRI / 5700K - 75 CRI

2,301 / 16,599 / 46,500 lumens

12

2.8 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
CREE PWY	--	--	--
CREE OSQ	--	--	--
TLC-LED-400	>81,000	>81,000	>81,000

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.



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2020 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

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

Scotland Hall Road MCFC
Manchester, North West

EQUIPMENT LAYOUT

INCLUDES:

· Mini Football

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

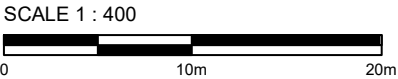
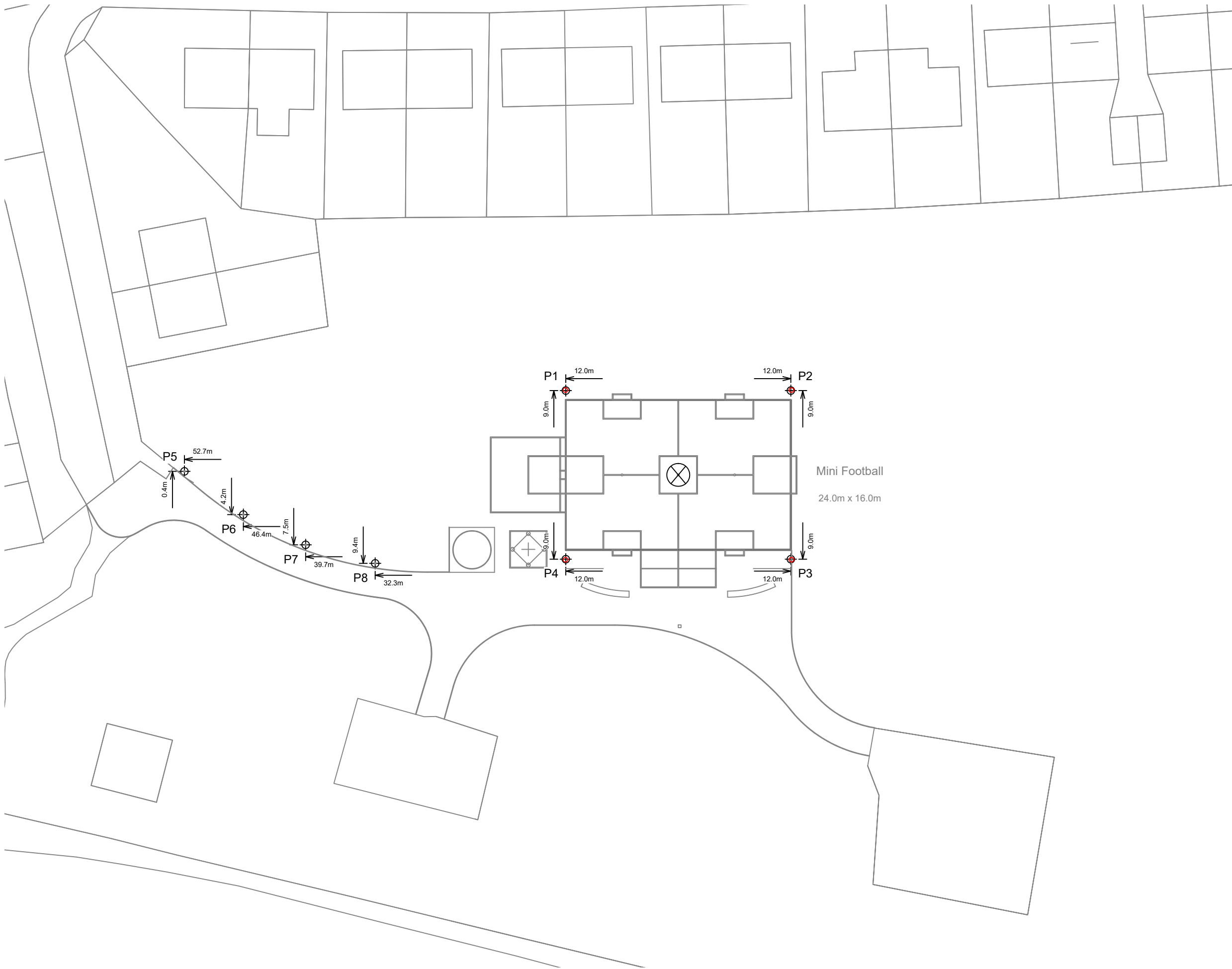
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	Pole			Luminaires		QTY / POLE
	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
1	P1	10m	-	10m	TLC-LED-400	2
1	P2	10m	-	10m	TLC-LED-400	1
1	P3	10m	-	7.5m	CREE OSQ	1
				10m	TLC-LED-400	1
1	P4	10m	-	7.5m	CREE OSQ	1
				10m	TLC-LED-400	2
4	P5-P8	1.0m	-	1.0m	CREE PWY	1
8	TOTALS					12

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	220 (50)	230 (50)	240 (50)	380 (50)	400 (50)	415 (50)
Single Phase Voltage						
Cree PWY	-	-	-	-	-	-
Cree OSQ	-	-	-	-	-	-
TLC-LED-400	2.2	2.1	2.0	1.3	1.2	1.2



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



We Make It Happen®

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2020 Musco Sports Lighting, LLC.