

Ladybarn Park MCFC

Manchester, North West

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1, P4	10	10	1	TLC-LED-600	0.58 kW	A
P2-P3	10	10	1	TLC-LED-400	0.40 kW	A
		10	1	TLC-LED-600	0.58 kW	A
4			6		3.12 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A		3.12 kW	6

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>81,000	>81,000	>81,000	2
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>81,000	>81,000	>81,000	4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
100m Spill Grid	Horizontal Illuminance	7.65	0	358	0.00	0.00	A	6
Ancillary Area	Horizontal	151	76	252	0.30	0.50	A	6
Mini Football	Horizontal Illuminance	245	189	364	0.52	0.77	A	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
2	P1, P4	10.0m	-	9.14m	TLC-LED-600	1	1
2	P2-P3	10.0m	-	9.14m	TLC-LED-600	1	1
				9.14m	TLC-LED-400	1	1
4	TOTALS					6	6

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GRID SUMMARY	
Name:	Mini Football
Size:	32.0m x 20.0m
Spacing:	4.0m x 4.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	200		
Scan Average:	244.93		
Maximum:	364		
Minimum:	189		
Guaranteed Min / Avg:	0.6		
Min / Avg:	0.77		
Min / Max:	0.52		
UG (adjacent pts):	1.52		
CU:	0.48		
No. of Points:	40		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 / 65,600 lumens		
No. of Luminaires:	6		
Total Load:	3.12 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
TLC-LED-600	>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.

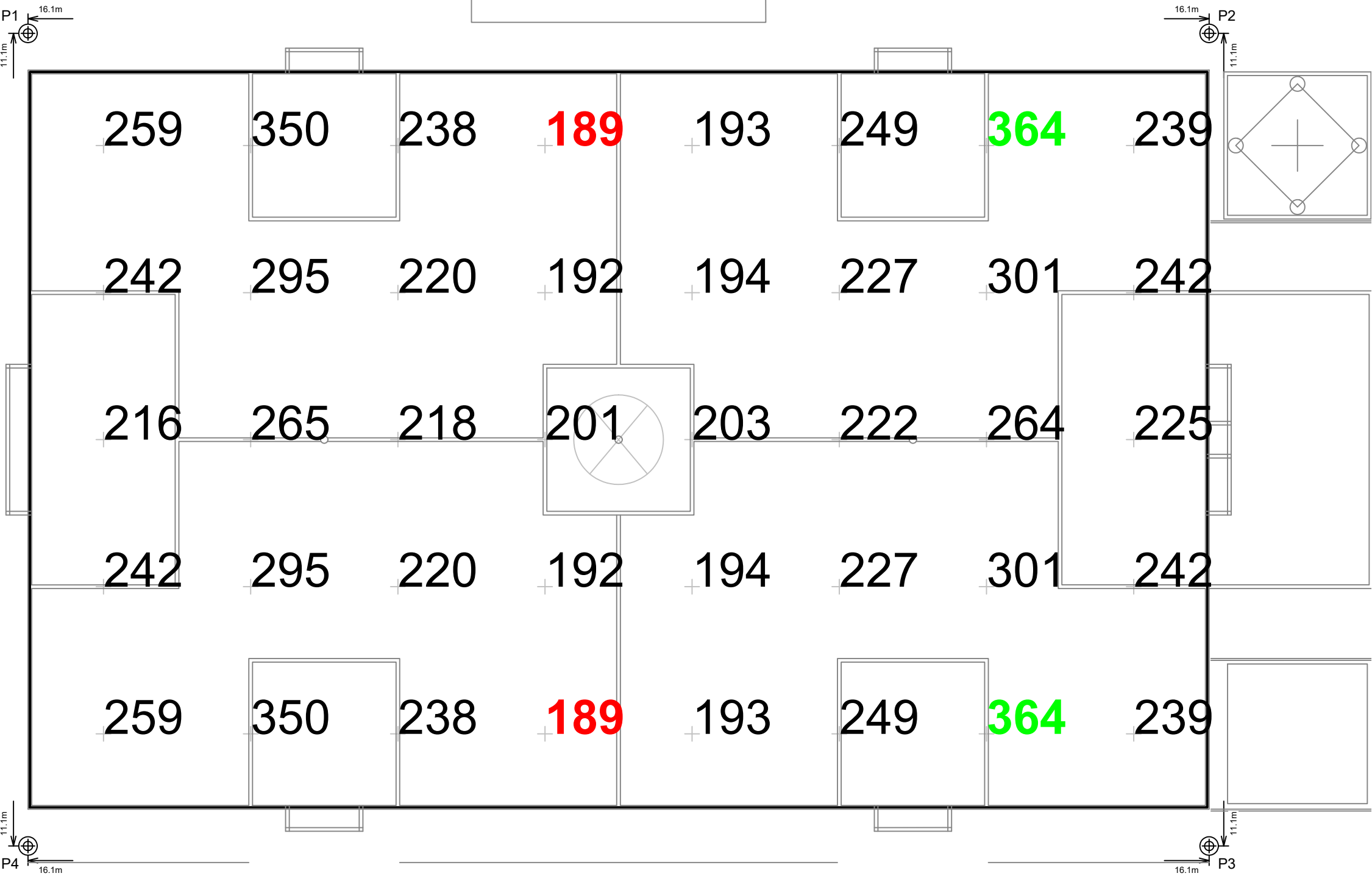
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



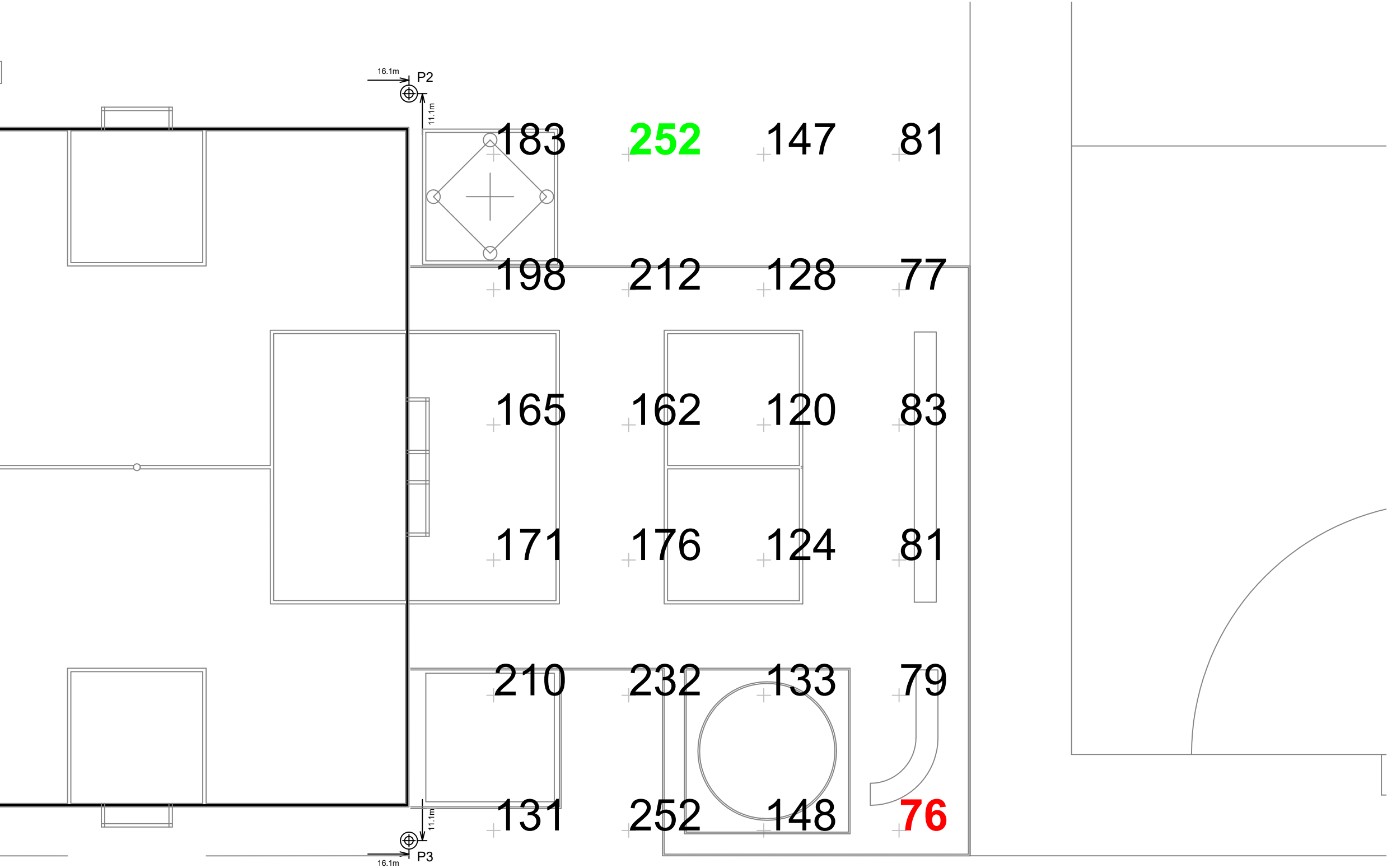
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ILLUMINATION SUMMARY



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
2	P1, P4	10.0m	-	9.14m	TLC-LED-600	1	1
2	P2-P3	10.0m	-	9.14m	TLC-LED-600	1	1
				9.14m	TLC-LED-400	1	1
4	TOTALS					6	6



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GRID SUMMARY	
Name:	Ancillary Area
Size:	32.0m x 20.0m
Spacing:	4.0m x 4.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
		Entire Grid		
Scan Average:	150.99			
Maximum:	252			
Minimum:	76			
Min / Avg:	0.50			
Min / Max:	0.30			
UG (adjacent pts):	1.95			
CU:	0.18			
No. of Points:	24			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	46,500 / 65,600 lumens			
No. of Luminaires:	6			
Total Load:	3.12 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	>81,000	>81,000	>81,000	
TLC-LED-600	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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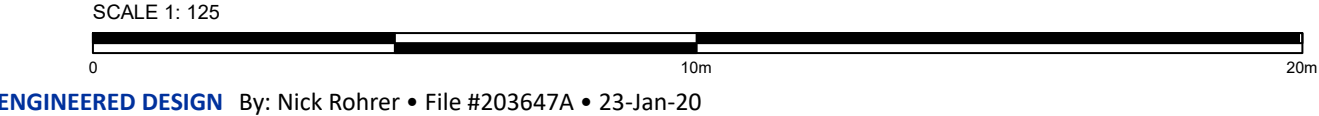
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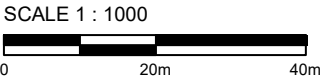
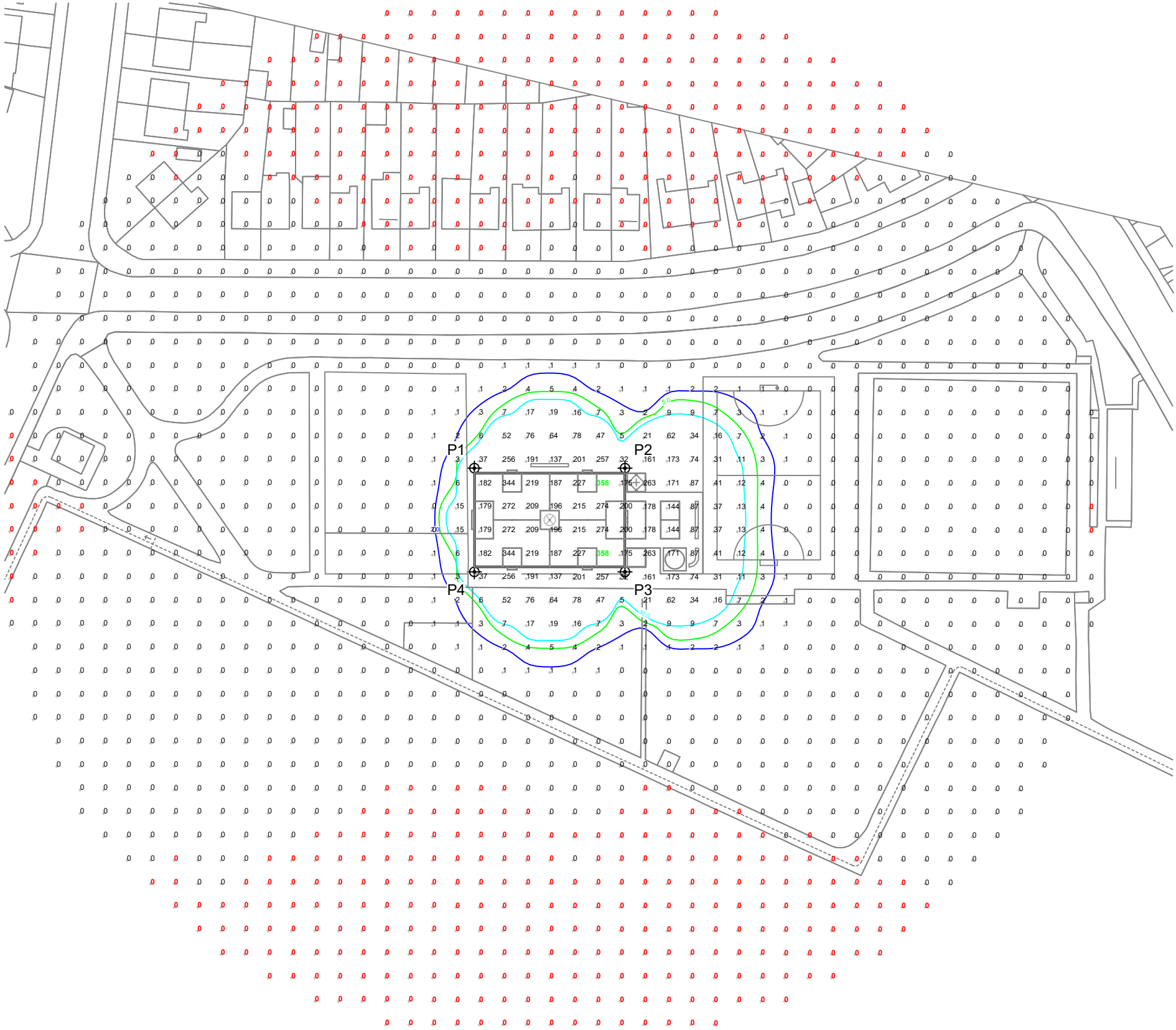
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ILLUMINATION SUMMARY



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
2	P1, P4	10.0m	-	9.14m	TLC-LED-600	1	1
2	P2-P3	10.0m	-	9.14m	TLC-LED-600	1	1
				9.14m	TLC-LED-400	1	1
4	TOTALS					6	6



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

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GRID SUMMARY	
Name:	100m Spill Grid
Size:	32.0m x 20.0m
Spacing:	5.0m x 5.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
HORIZONTAL LUX			
Entire Grid			
Scan Average:	7.6515		
Maximum:	357.99		
Minimum:	0.00		
CU:	1.00		
No. of Points:	1696		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 / 65,600 lumens		
No. of Luminaires:	6		
Total Load:	3.12 kW		
		Lumen Maintenance	
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
TLC-LED-600	>81,000	>81,000	>81,000
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.



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EQUIPMENT LAYOUT

INCLUDES:

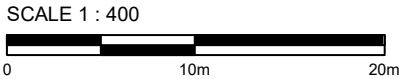
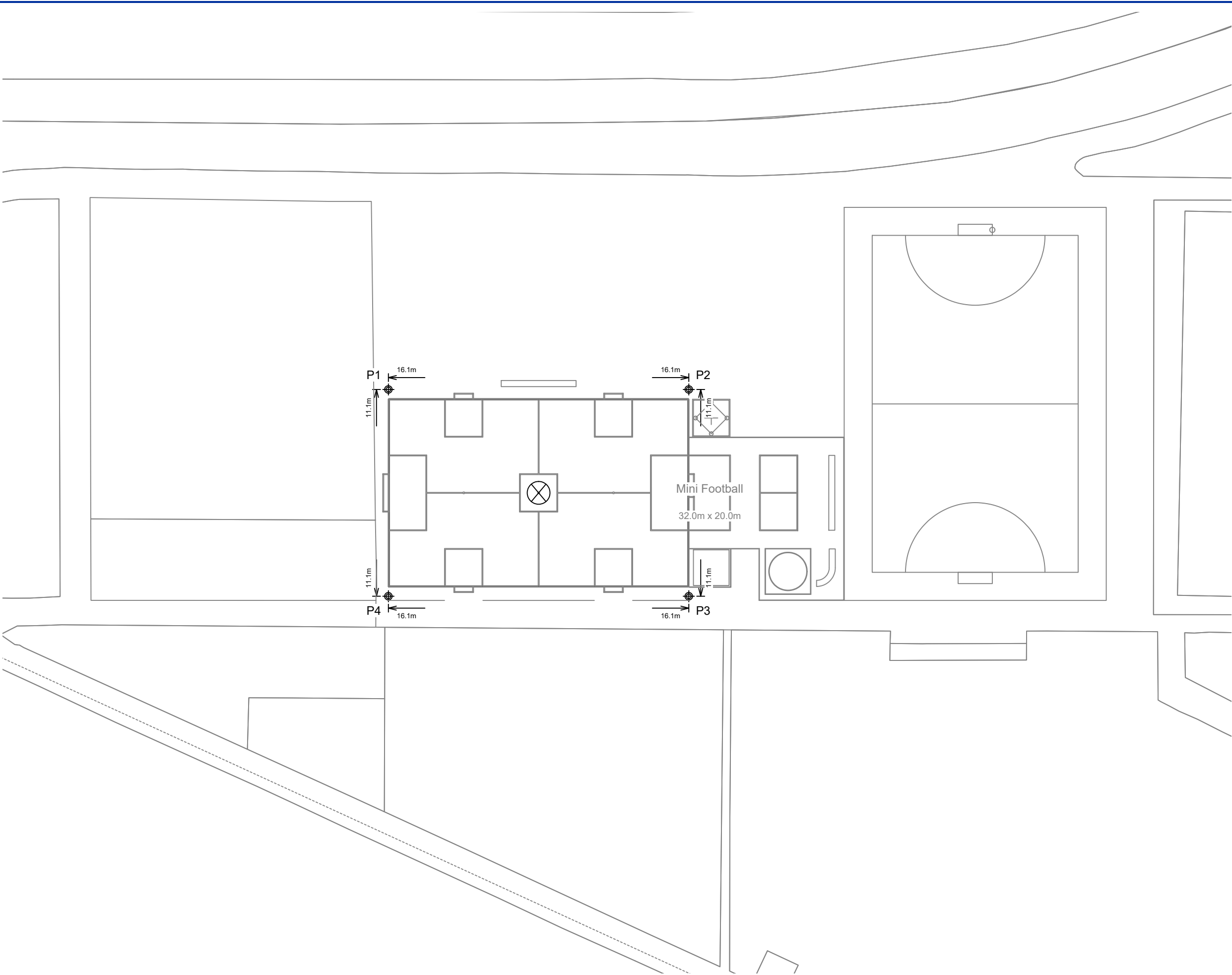
- Mini Football

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						
Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	P1, P4	9.14m	-	10.0m	TLC-LED-600	1
2	P2-P3	9.14m	-	10.0m	TLC-LED-600	1
				10.0m	TLC-LED-400	1
4	TOTALS					6

SINGLE LUMINAIRE AMPERAGE DRAW CHART						
Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)				
Single Phase Voltage		220 (50)	230 (50)	240 (50)	380 (50)	400 (50)
TLC-LED-400		2.2	2.1	2.0	1.3	1.2
TLC-LED-600		3.2	3.1	3.0	1.9	1.8



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



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