

New Liverpool Training Ground

Liverpool,North West

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type		Circuit
S1-S6	20.0	20.0	8	TLC-LED-1200		D
6			48			56.16 kW

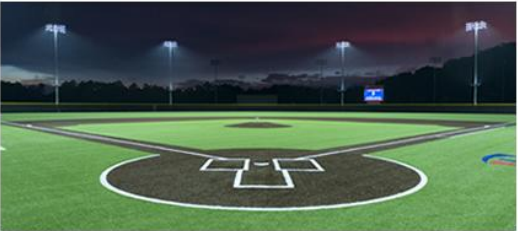
Circuit Summary			
Circuit	Description	Load	Fixture Qty
D	Pitch C	56.16 kW	48

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	48

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
01 Pitch C	Horizontal Illuminance	605	508	766	0.66	0.84	D	48
02 TI- Simonswood Ln - Southbound	TI: @ 170	0	0	0.04	0.00	0.00	D	48
03 TI- Simonswood Ln - Northbound	TI: @ -10	0	0	0.04	0.00	0.00	D	48
04 LTW @ 1.5m - Simonswood Lane 1	Horizontal	0	0	0	0.00	0.00	D	48
04 LTW @ 1.5m - Simonswood Lane 1	Max Candela (by Fixture)	41.4	21.2	58	0.37	0.51	D	48
04 LTW @ 1.5m - Simonswood Lane 1	Max Vertical Illuminance Metric	0	0	0	0.00	0.00	D	48
05 LTW @ 1.5m - Simonswood Lane 2	Horizontal	0.01	0	0.07	0.00	0.00	D	48
05 LTW @ 1.5m - Simonswood Lane 2	Max Candela (by Fixture)	131	37.2	485	0.08	0.28	D	48
05 LTW @ 1.5m - Simonswood Lane 2	Max Vertical Illuminance Metric	0.04	0	0.25	0.00	0.00	D	48
06 LTW @ 1.5m - Simonswood Lane 3	Horizontal	0	0	0	0.00		D	48
06 LTW @ 1.5m - Simonswood Lane 3	Max Candela (by Fixture)	7.04	0	34	0.00	0.00	D	48
06 LTW @ 1.5m - Simonswood Lane 3	Max Vertical Illuminance Metric	0	0	0	0.00	0.00	D	48
07 LTW @1.5m - Arbour Lane 1	Horizontal	0	0	0	0.00		D	48
07 LTW @1.5m - Arbour Lane 1	Max Candela (by Fixture)	1.70	0	10.9	0.00	0.00	D	48
07 LTW @1.5m - Arbour Lane 1	Max Vertical Illuminance Metric	0	0	0	0.00		D	48
08 LTW @1.5m - Arbour Lane 2	Horizontal	0	0	0	0.00		D	48
08 LTW @1.5m - Arbour Lane 2	Max Candela (by Fixture)	15.5	0.04	26.3	0.00	0.00	D	48
08 LTW @1.5m - Arbour Lane 2	Max Vertical Illuminance Metric	0	0	0	0.00	0.00	D	48
09 Pitch C Spill	Horizontal Illuminance	13.6	0	277	0.00	0.00	D	48
09 Pitch C Spill	Max Vert Illuminance (by Light Bank)	17.6	0	348	0.00	0.00	D	48

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
6	S1-S6	20m	-	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

New Liverpool Training Ground
Liverpool, North West

GRID SUMMARY	
Name:	01 Pitch C
Size:	105.0m x 68.0m
Spacing:	9.5m x 9.7m
Height:	1.0m above grade

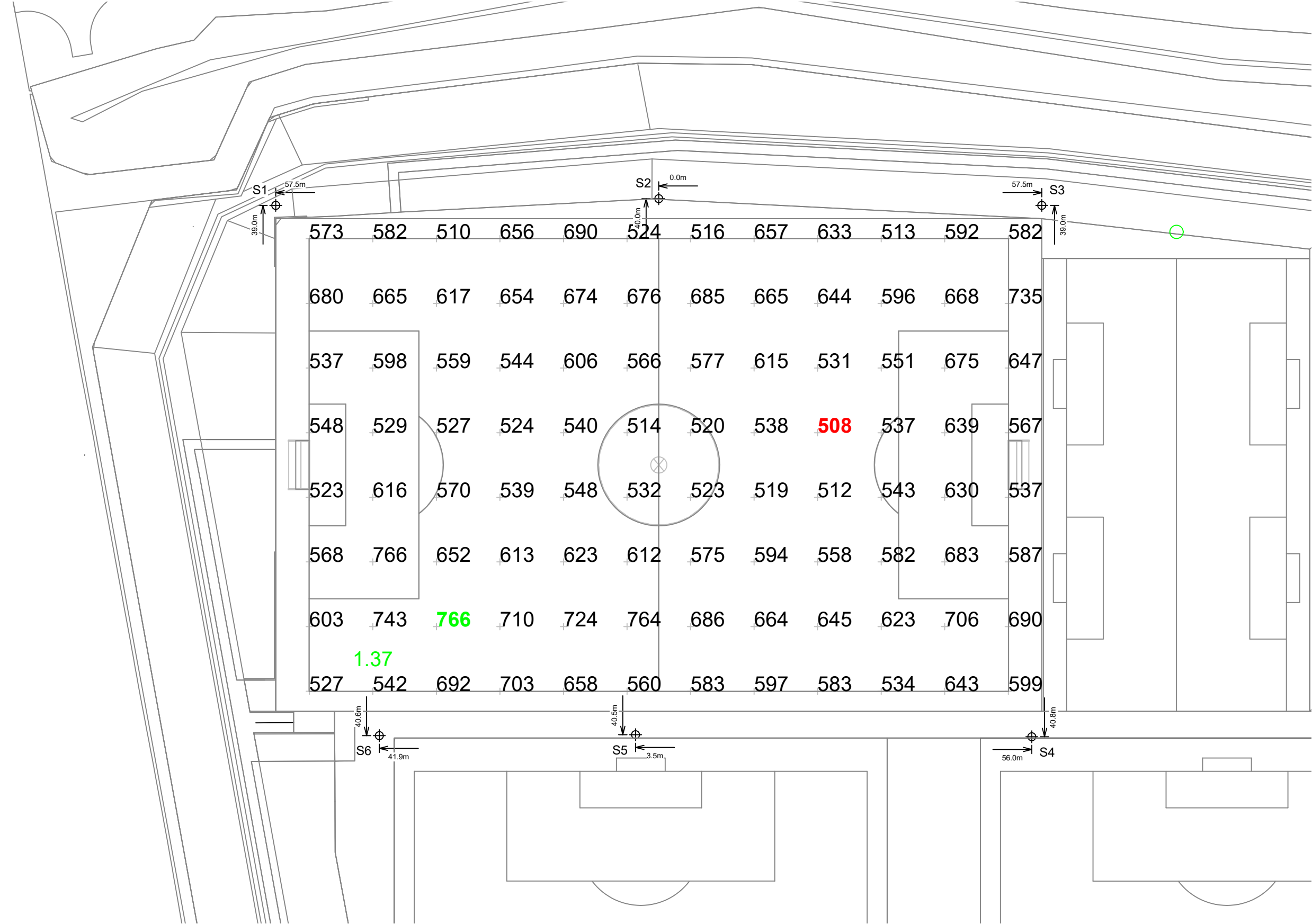
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
	Entire Grid
Guaranteed Average:	600
Scan Average:	604.53
Maximum:	766
Minimum:	508
Guaranteed Min / Avg:	0.7
Min / Avg:	0.84
Min / Max:	0.66
UG (adjacent pts):	1.37
CU:	0.85
No. of Points:	96
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 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) ⊗



Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

Liverpool,North West

Name:	02 TI- Simonswood Ln - Southbound
Spacing:	5.0m
Height:	1.5m above grade

THRESHOLD INCREMENT: @ 170

Entire Grid	
Scan Average:	0.0014
Maximum:	0.04
Minimum:	0.00
No. of Points:	127

LUMINAIRE INFORMATION

Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.



Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

New Liverpool Training Ground
Liverpool, North West

GRID SUMMARY	
Name:	03 TI- Simonswood Ln - Northbound
Spacing:	5.0m
Height:	1.5m above grade

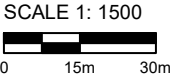
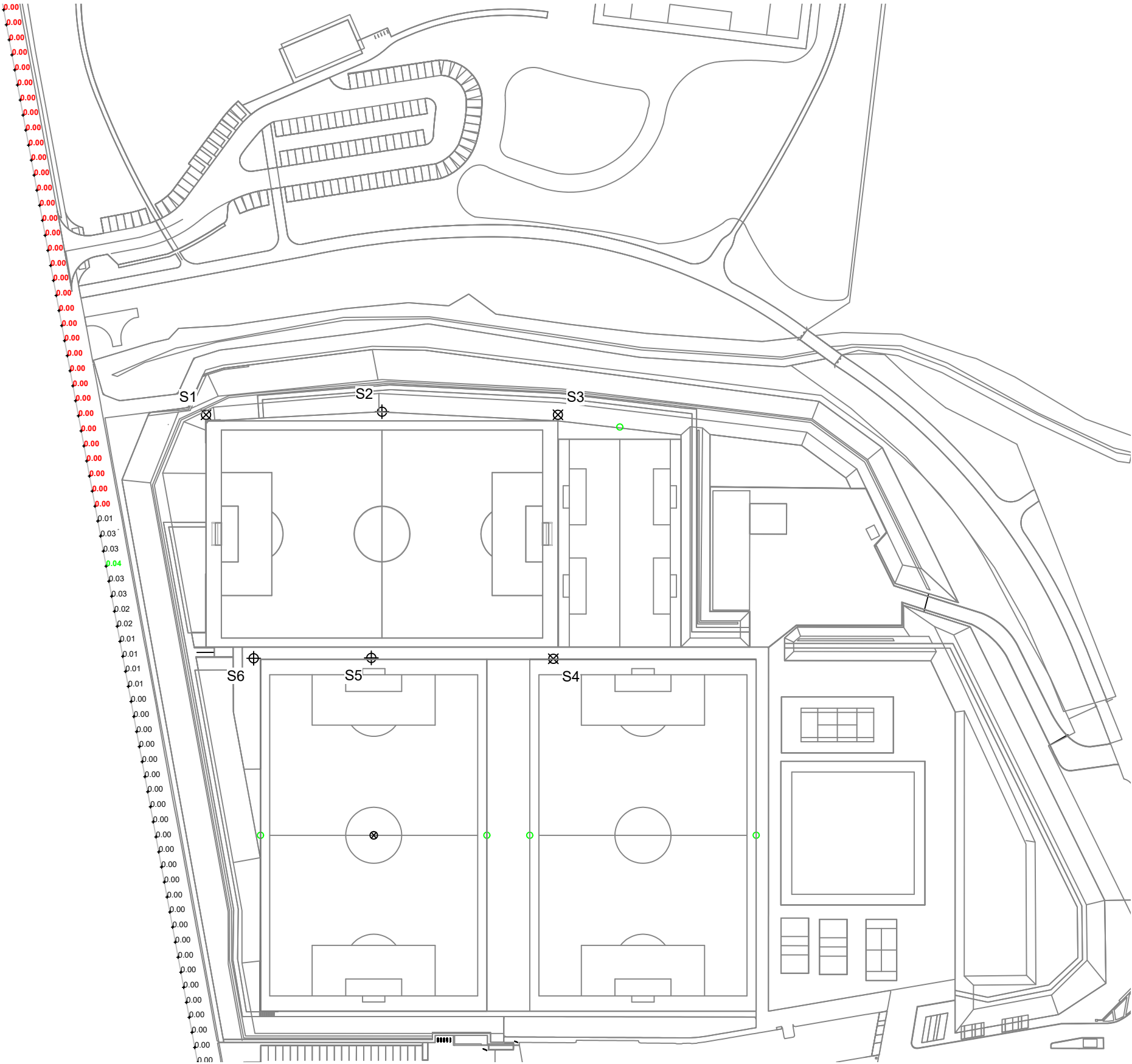
ILLUMINATION SUMMARY	
THRESHOLD INCREMENT: @ -10	
Scan Average:	Entire Grid 0.0021
Maximum:	0.04
Minimum:	0.00
No. of Points:	127
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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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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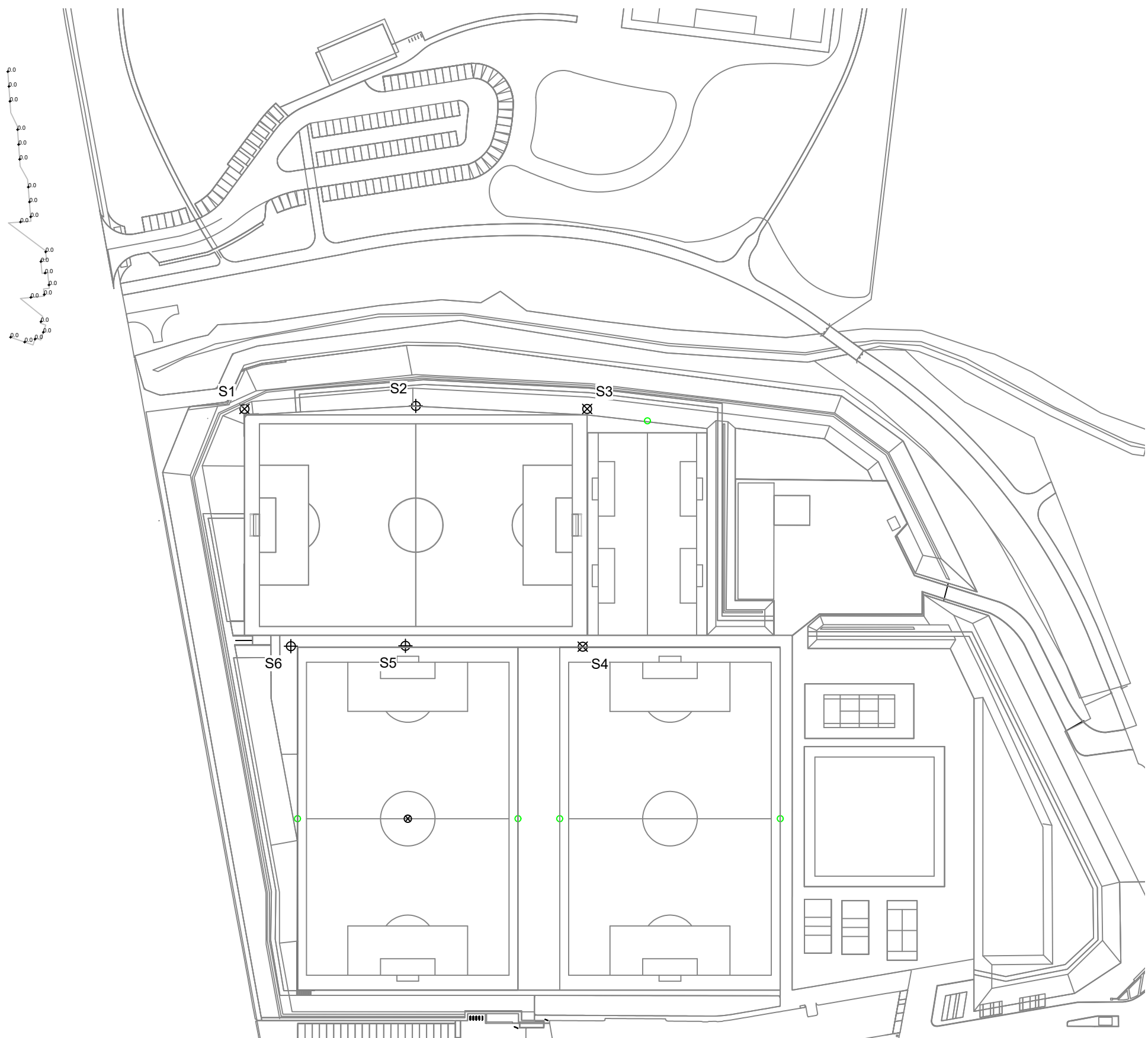


Pole location(s) ⦿ dimensions are relative to 0,0 reference point(s) ⊗



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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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0



New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	04 LTW @ 1.5m - Simonswood Lane 1
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.0001
Maximum:	0.00
Minimum:	0.00
No. of Points:	21
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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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.

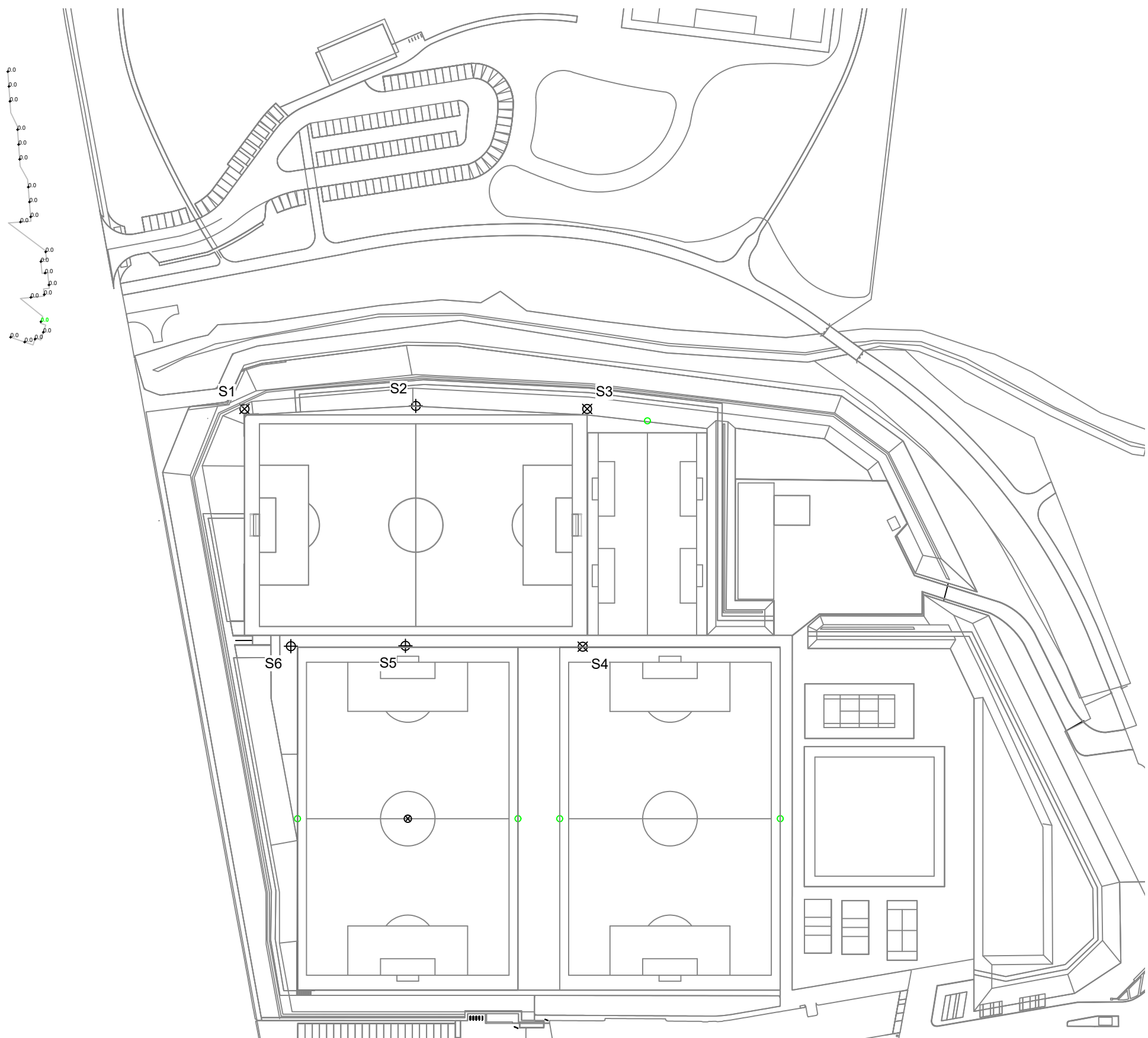


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0



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

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	04 LTW @ 1.5m - Simonswood Lane 1
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
MAX VERTICAL LUX	
Scan Average:	Entire Grid 0.0010
Maximum:	0.00
Minimum:	0.00
No. of Points:	21
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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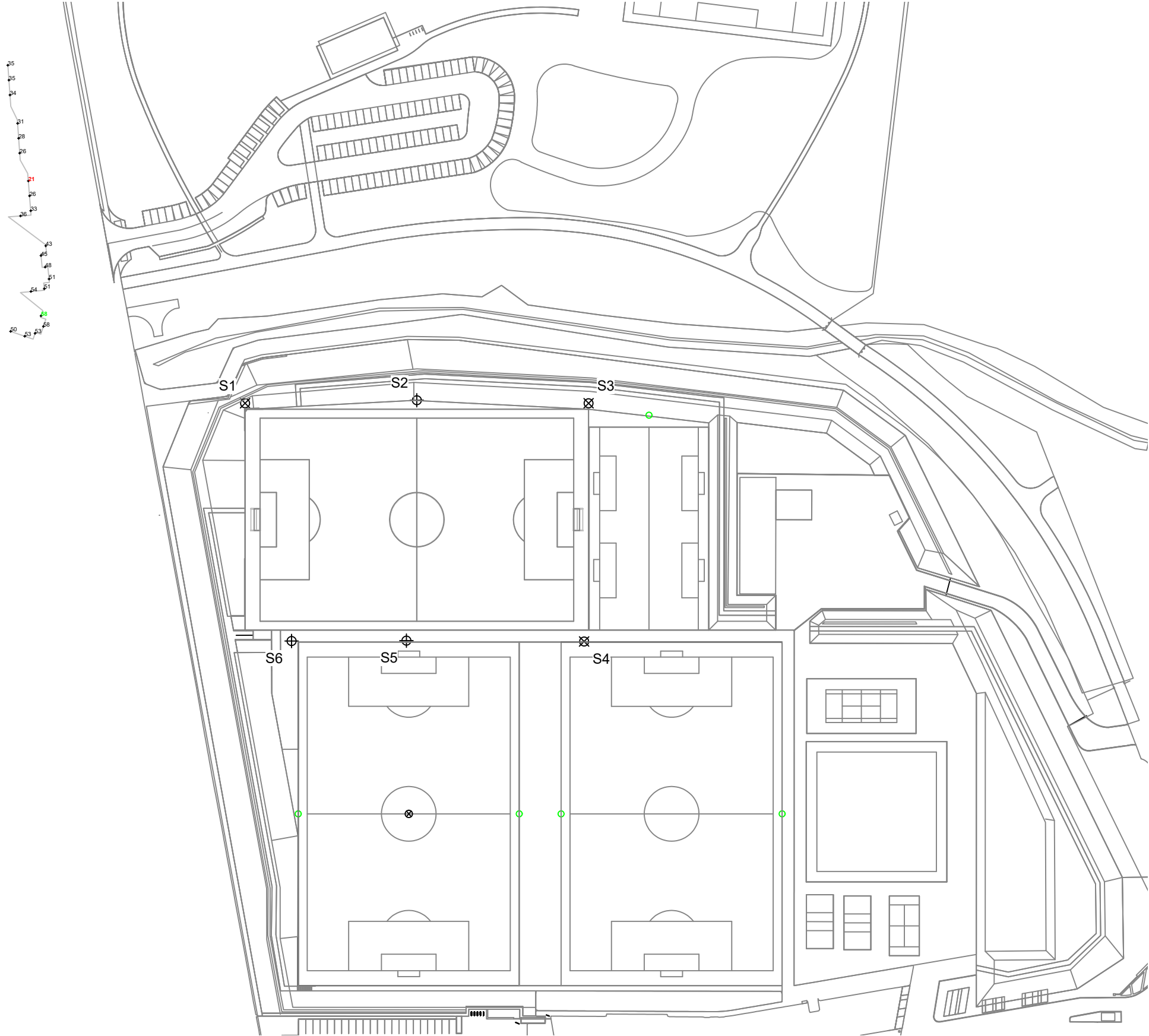


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0



New Liverpool Training Ground

Liverpool, North West

GRID SUMMARY	
Name:	04 LTW @ 1.5m - Simonswood Lane 1
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average:	41.3717
Maximum:	57.97
Minimum:	21.15
No. of Points:	21
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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



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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	05 LTW @ 1.5m - Simonswood Lane 2
Spacing:	5.0m
Height:	1.5m above grade

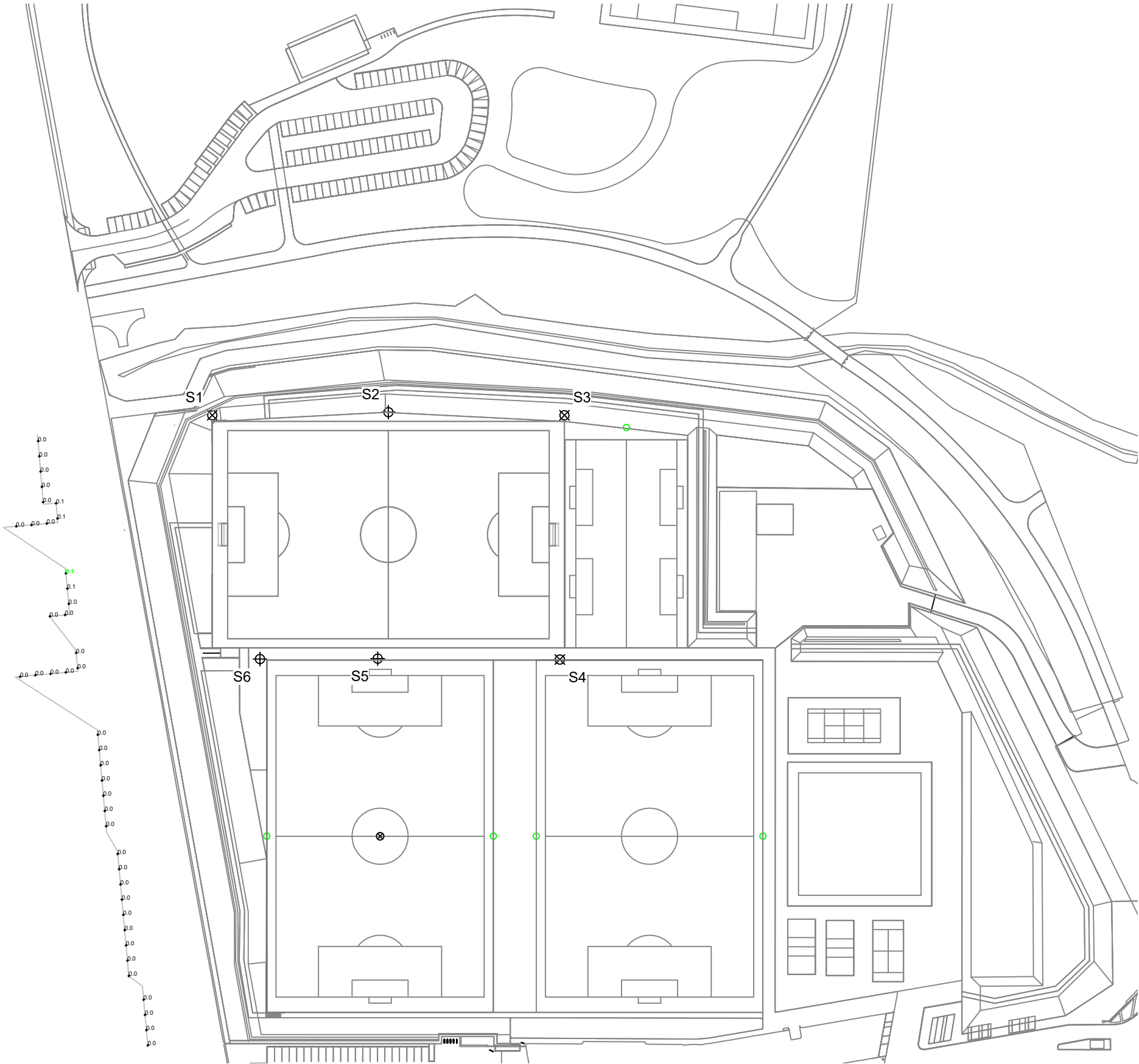
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.0126
Maximum:	0.07
Minimum:	0.00
No. of Points:	41
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	05 LTW @ 1.5m - Simonswood Lane 2
Spacing:	5.0m
Height:	1.5m above grade

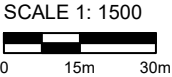
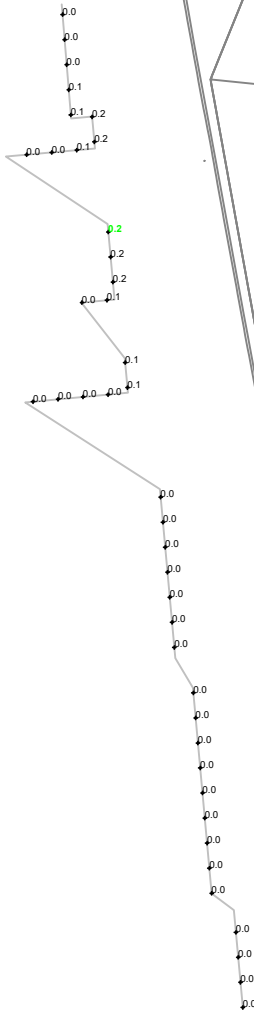
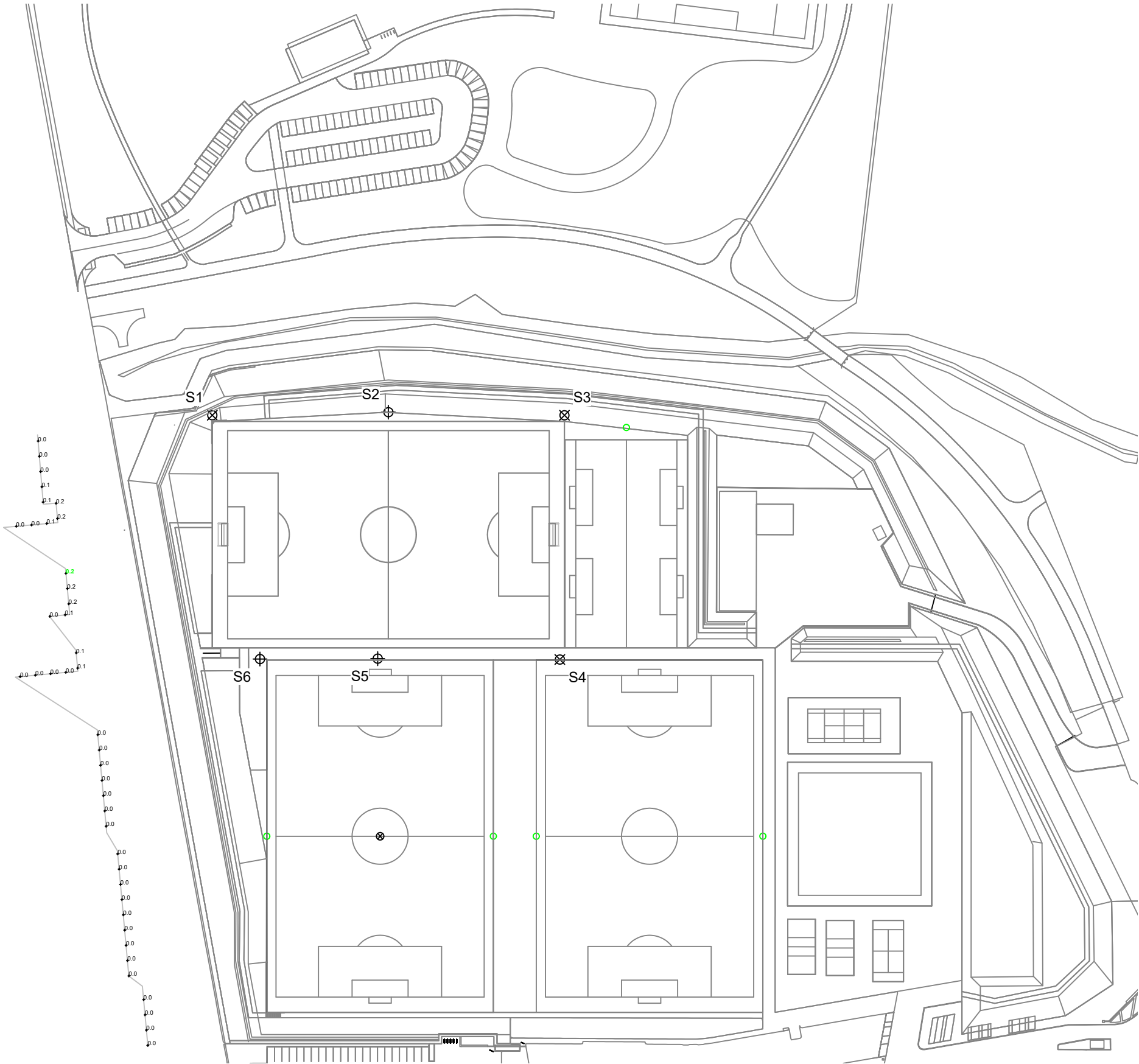
ILLUMINATION SUMMARY	
MAX VERTICAL LUX	
Scan Average:	Entire Grid 0.0441
Maximum:	0.25
Minimum:	0.00
No. of Points:	41
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.

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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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	05 LTW @ 1.5m - Simonswood Lane 2
Spacing:	5.0m
Height:	1.5m above grade

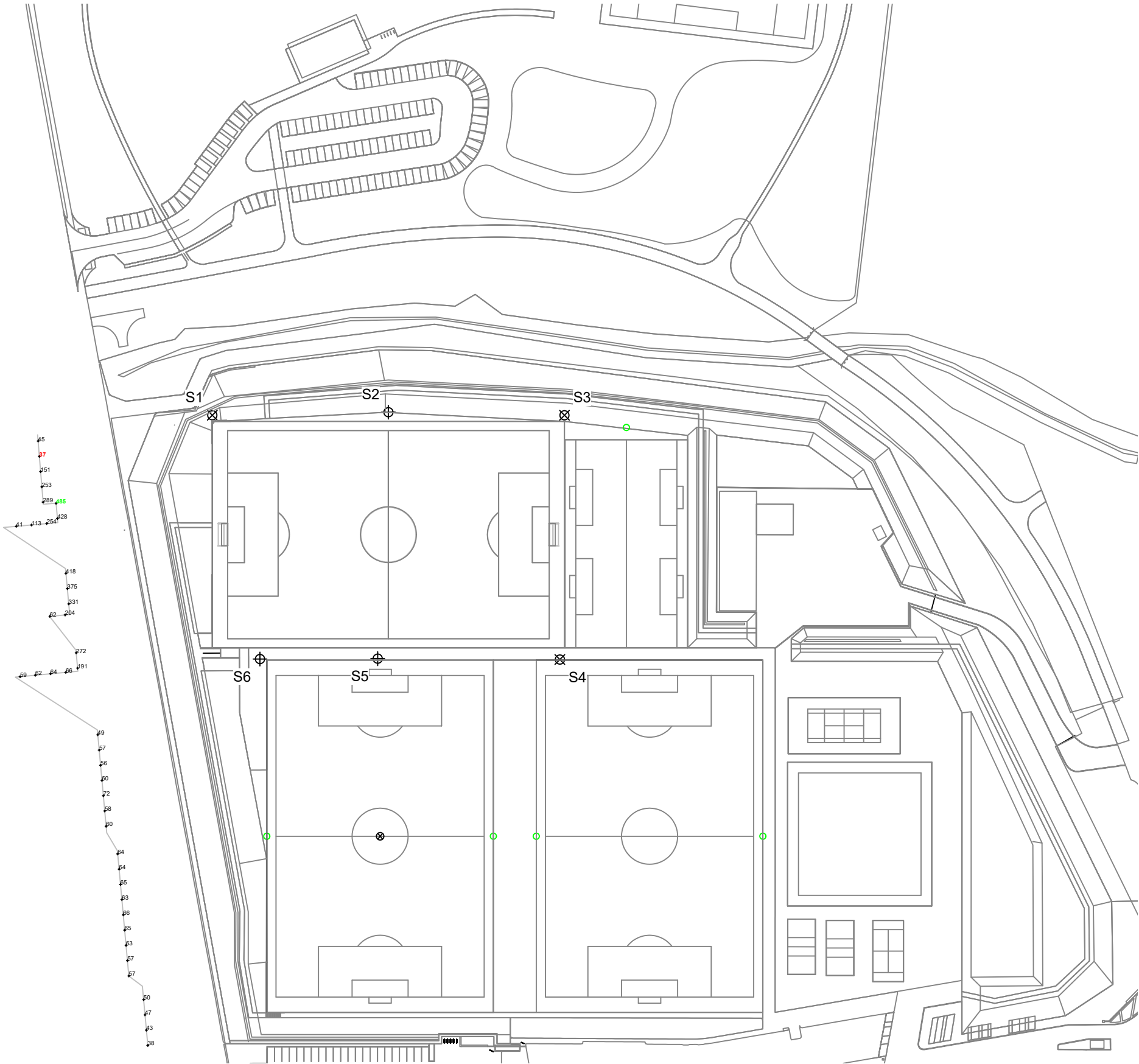
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 130.5438
Maximum:	484.74
Minimum:	37.16
No. of Points:	41
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.

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

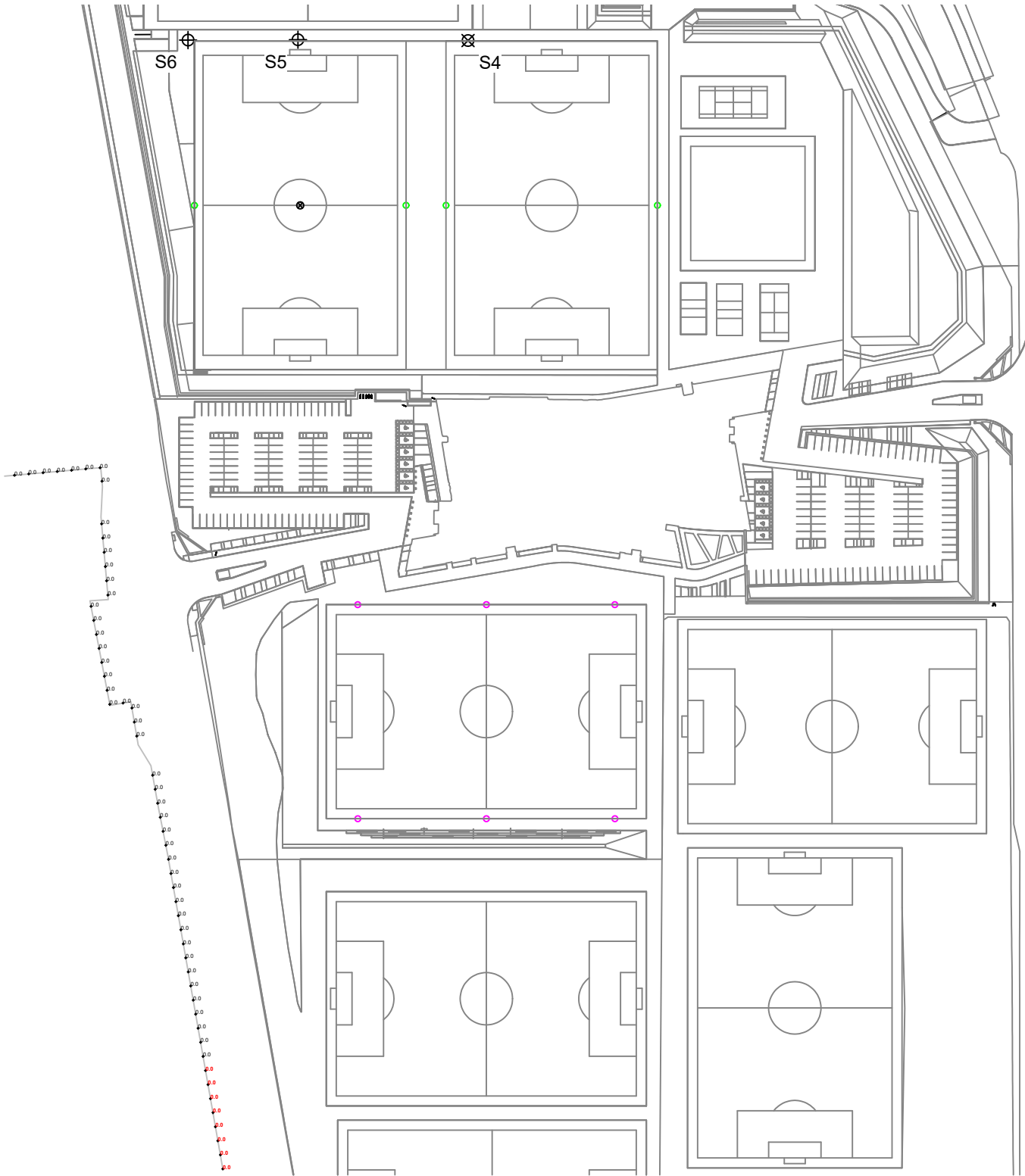


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



ENGINEERED DESIGN By: Nick Rohrer · File #209789C · 19-Feb-21

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	06 LTW @ 1.5m - Simonswood Lane 3
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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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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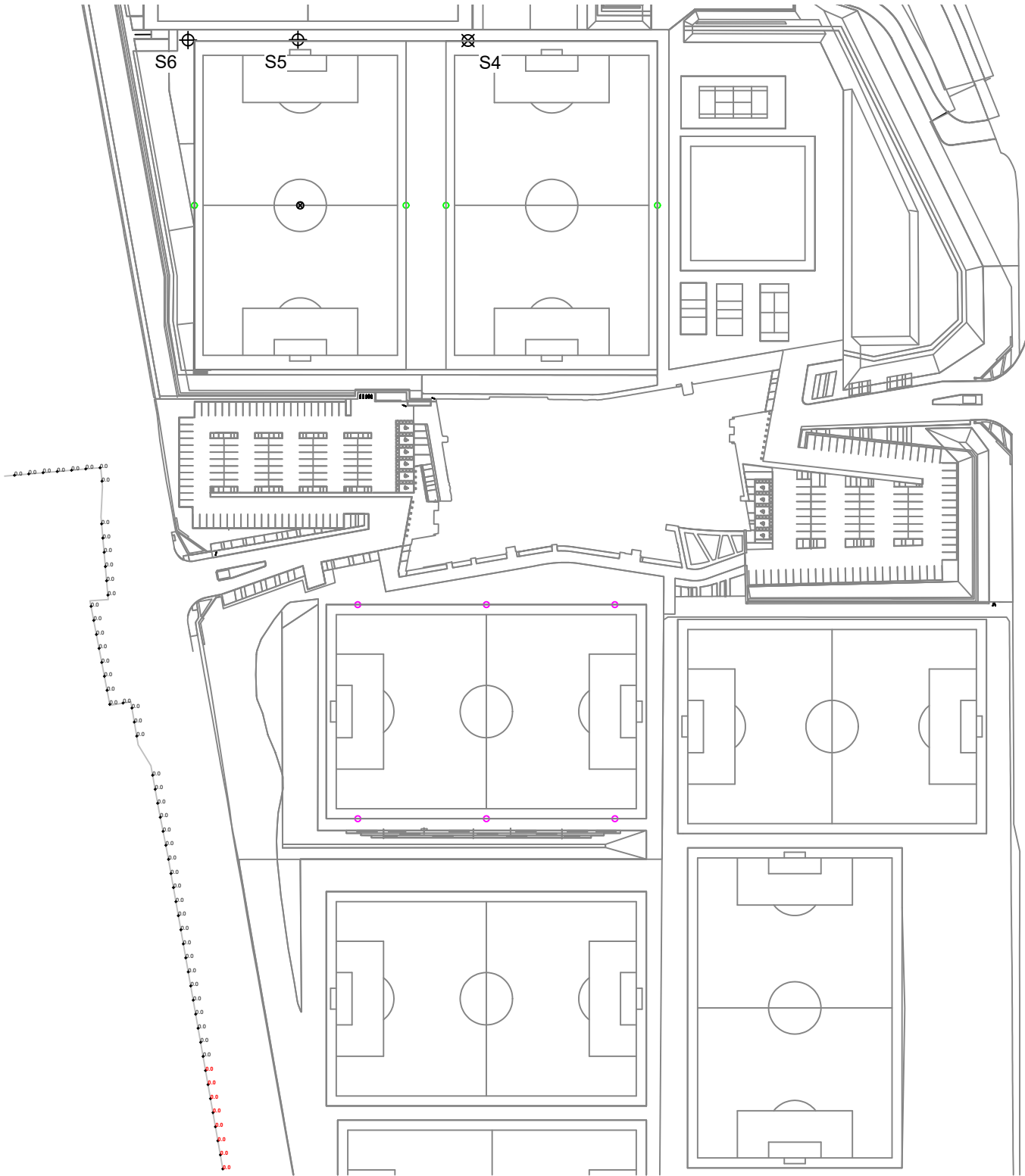
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ILLUMINATION SUMMARY

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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	06 LTW @ 1.5m - Simonswood Lane 3
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
MAX VERTICAL LUX	
Scan Average:	Entire Grid 0.0001
Maximum:	0.00
Minimum:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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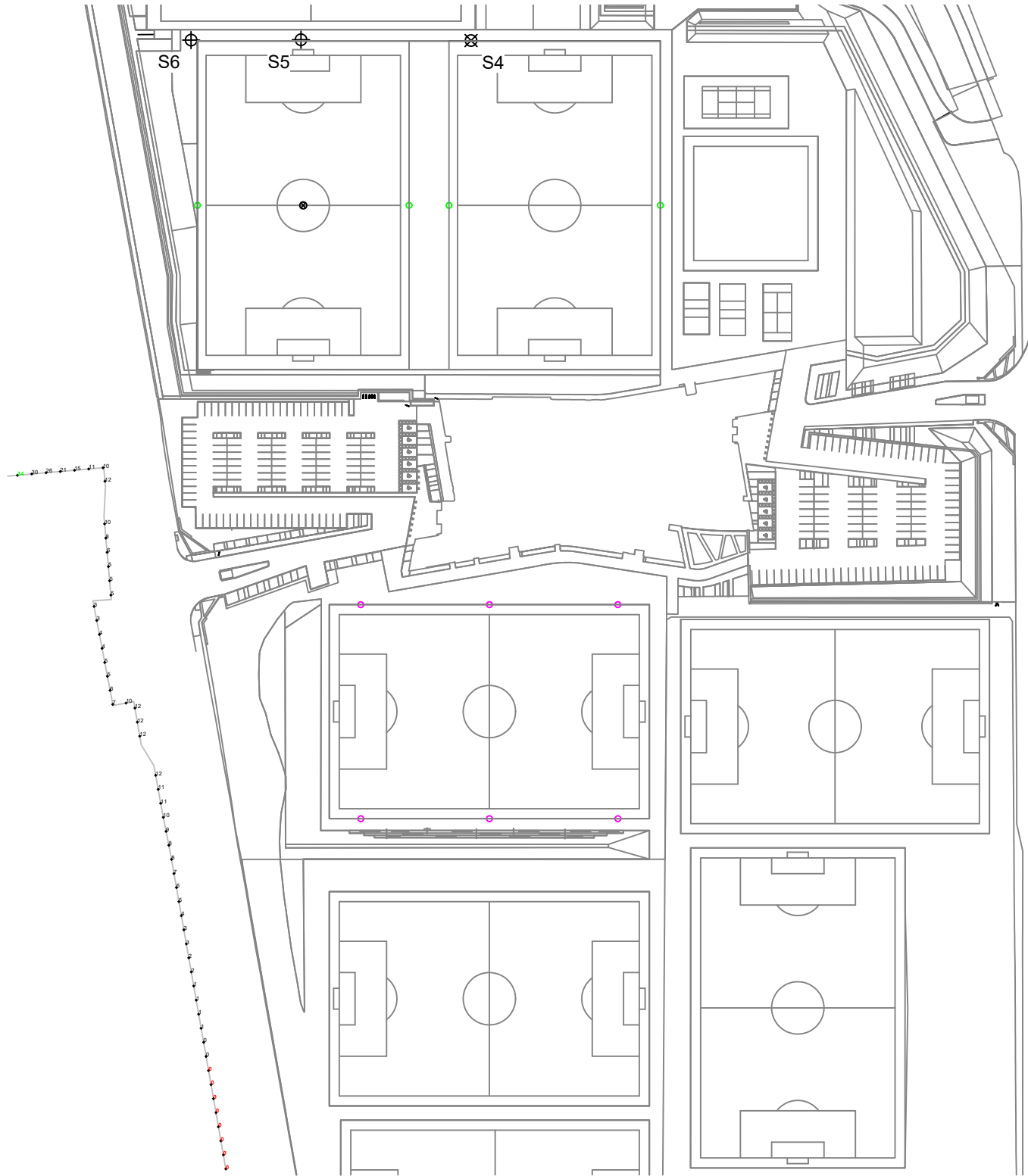
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ILLUMINATION SUMMARY

SCALE 1: 2000

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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	06 LTW @ 1.5m - Simonswood Lane 3
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 7.0390
Maximum:	34.02
Minimum:	0.00
No. of Points:	55
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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ILLUMINATION SUMMARY

SCALE 1: 2000
0 20m 40m

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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	07 LTW @1.5m - Arbour Lane 1
Spacing:	5.0m
Height:	1.5m above grade

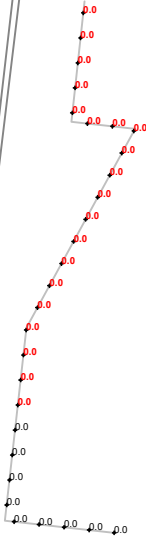
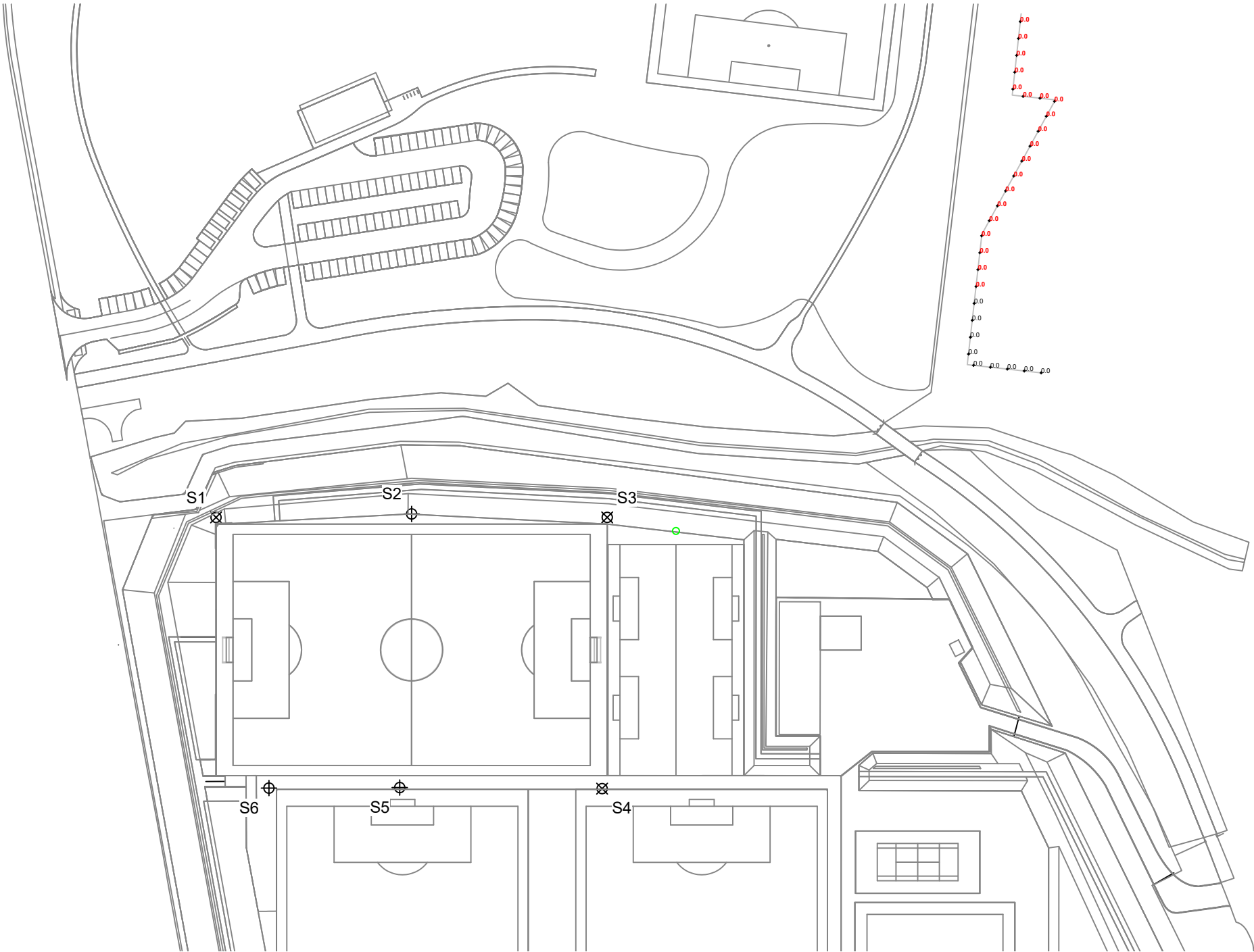
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	29
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.



SCALE 1: 1500

0 15m 30m

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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	07 LTW @1.5m - Arbour Lane 1
Spacing:	5.0m
Height:	1.5m above grade

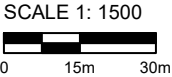
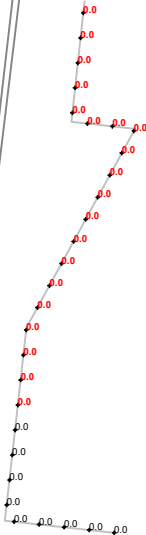
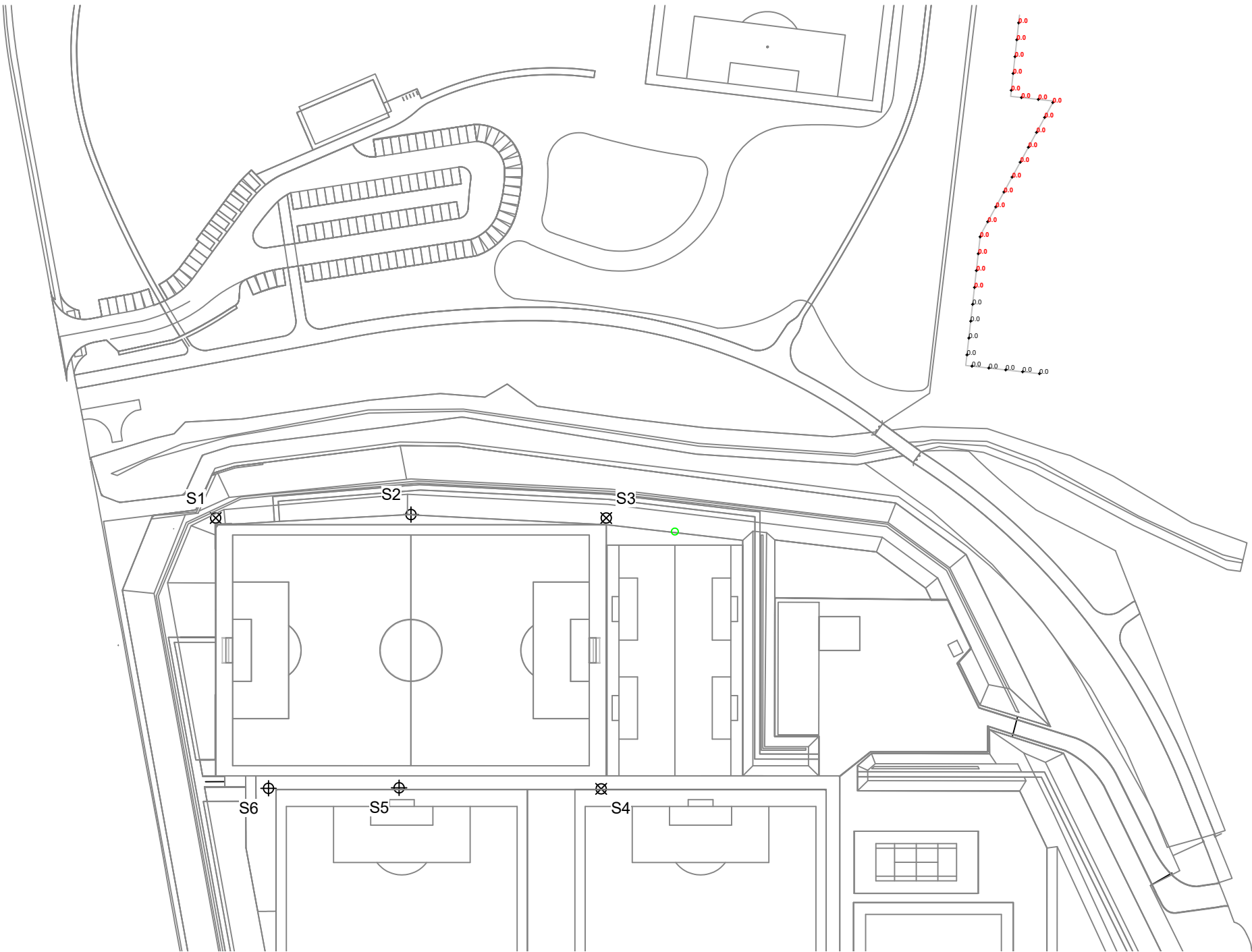
ILLUMINATION SUMMARY	
MAX VERTICAL LUX	
Scan Average:	Entire Grid 0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	29
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.



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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0

New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	07 LTW @1.5m - Arbour Lane 1
Spacing:	5.0m
Height:	1.5m above grade

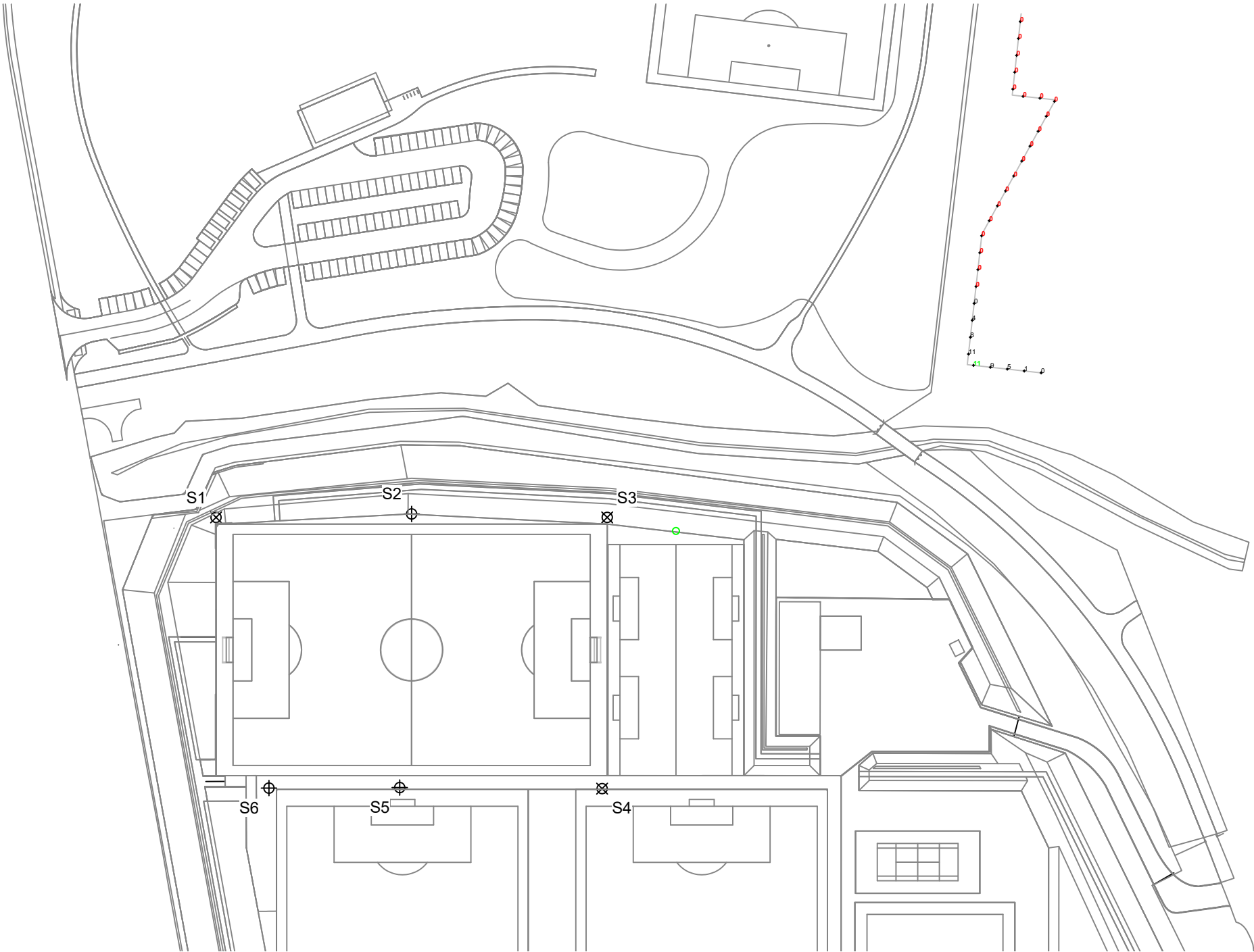
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
	Entire Grid
Scan Average:	1.7016
Maximum:	10.90
Minimum:	0.00
No. of Points:	29
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.



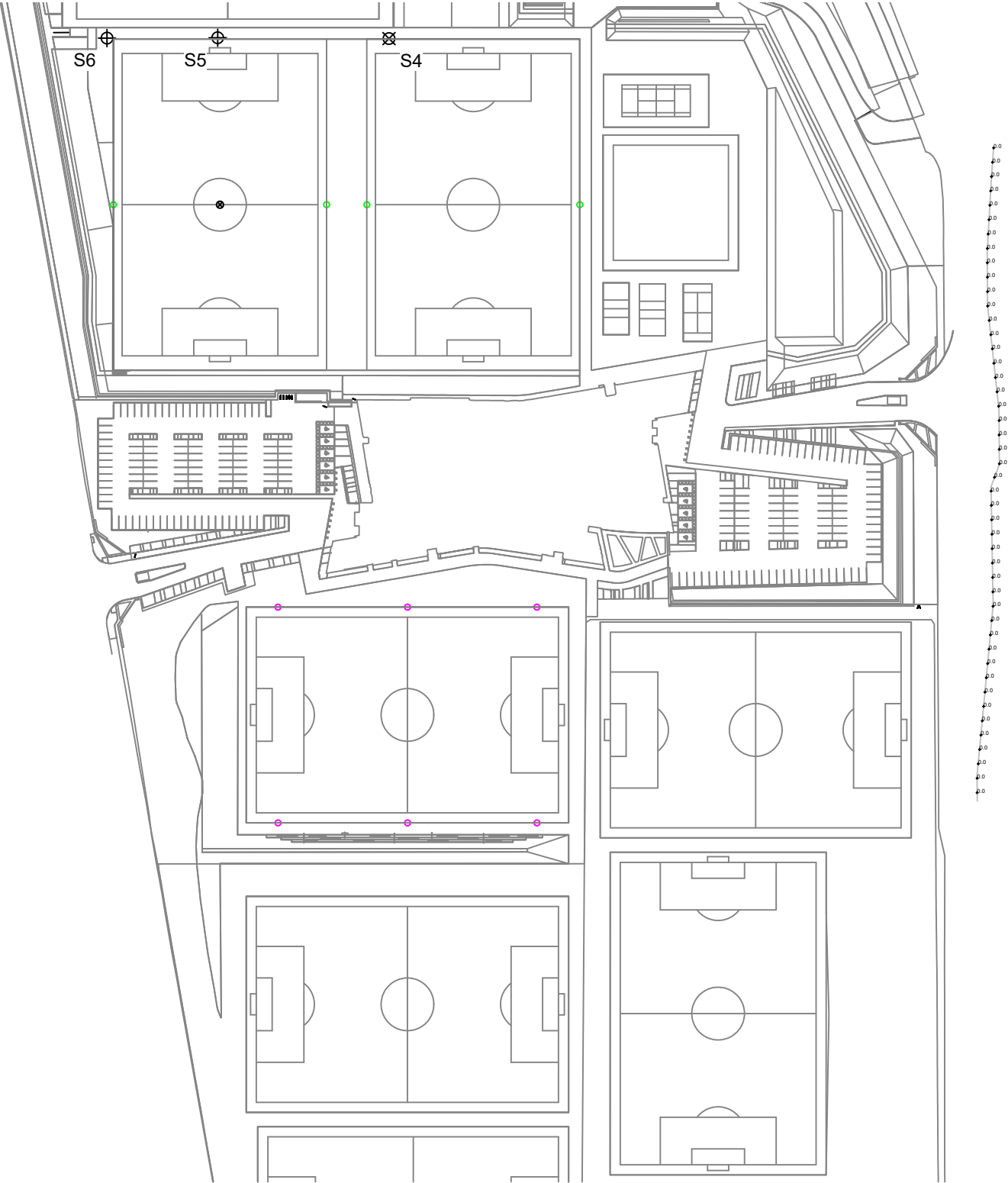
Pole location(s) ⦿ dimensions are relative to 0,0 reference point(s) ⊗



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EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



New Liverpool Training Ground
Liverpool, North West

GRID SUMMARY	
Name:	08 LTW @1.5m - Arbour Lane 2
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.0000
Maximum:	0.00
Minimum:	0.00
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.

SCALE 1: 2000
0 20m 40m

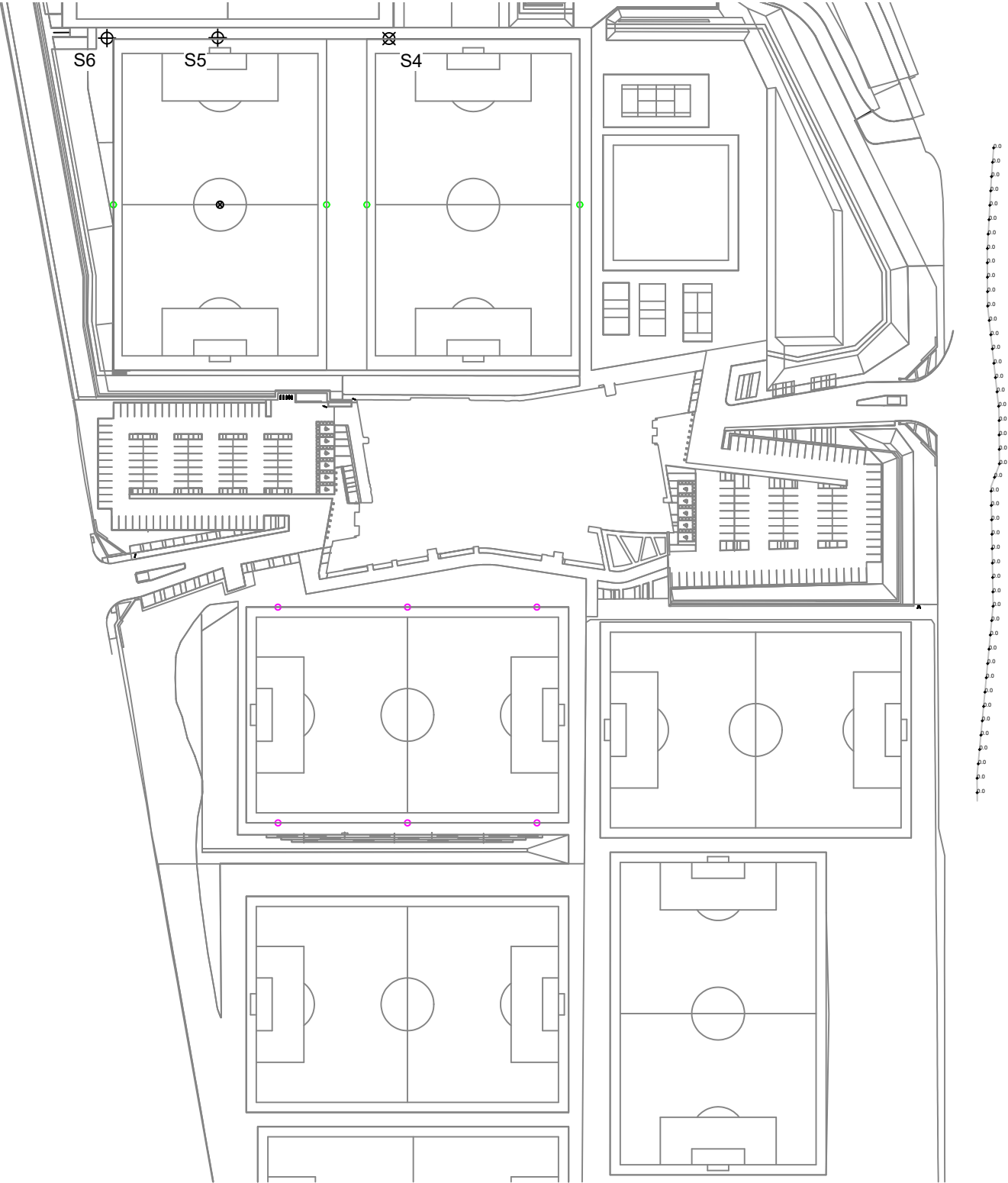
Pole location(s) ⦿ dimensions are relative to 0,0 reference point(s) ⊗



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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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	08 LTW @1.5m - Arbour Lane 2
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
MAX VERTICAL LUX	
Scan Average:	Entire Grid 0.0001
Maximum:	0.00
Minimum:	0.00
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.

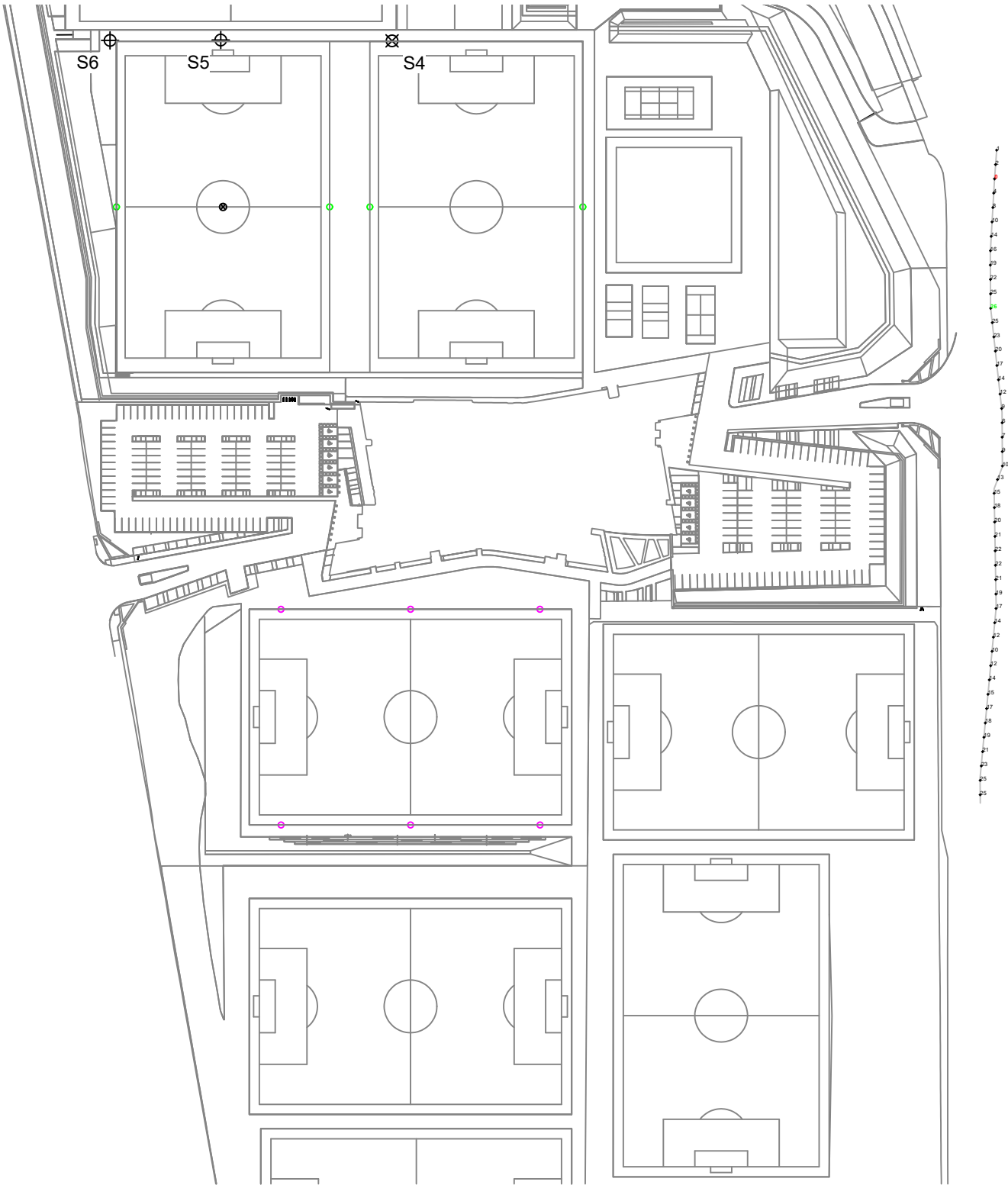
SCALE 1: 2000
0 20m 40m

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
6	S1-S6	20m	0m	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
							0



New Liverpool Training Ground

Liverpool,North West

GRID SUMMARY	
Name:	08 LTW @1.5m - Arbour Lane 2
Spacing:	5.0m
Height:	1.5m above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 15.4774
Maximum:	26.31
Minimum:	0.04
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.

SCALE 1: 2000
0 20m 40m

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
6	S1-S6	20m	-	20m	TLC-LED-1200	8	8
6	TOTALS					48	48
						0	0

New Liverpool Training Ground

Liverpool, North West

GRID SUMMARY	
Name:	09 Pitch C Spill
Size:	105.0m x 68.0m
Spacing:	9.5m x 9.7m
Height:	1.0m above grade

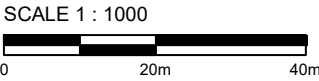
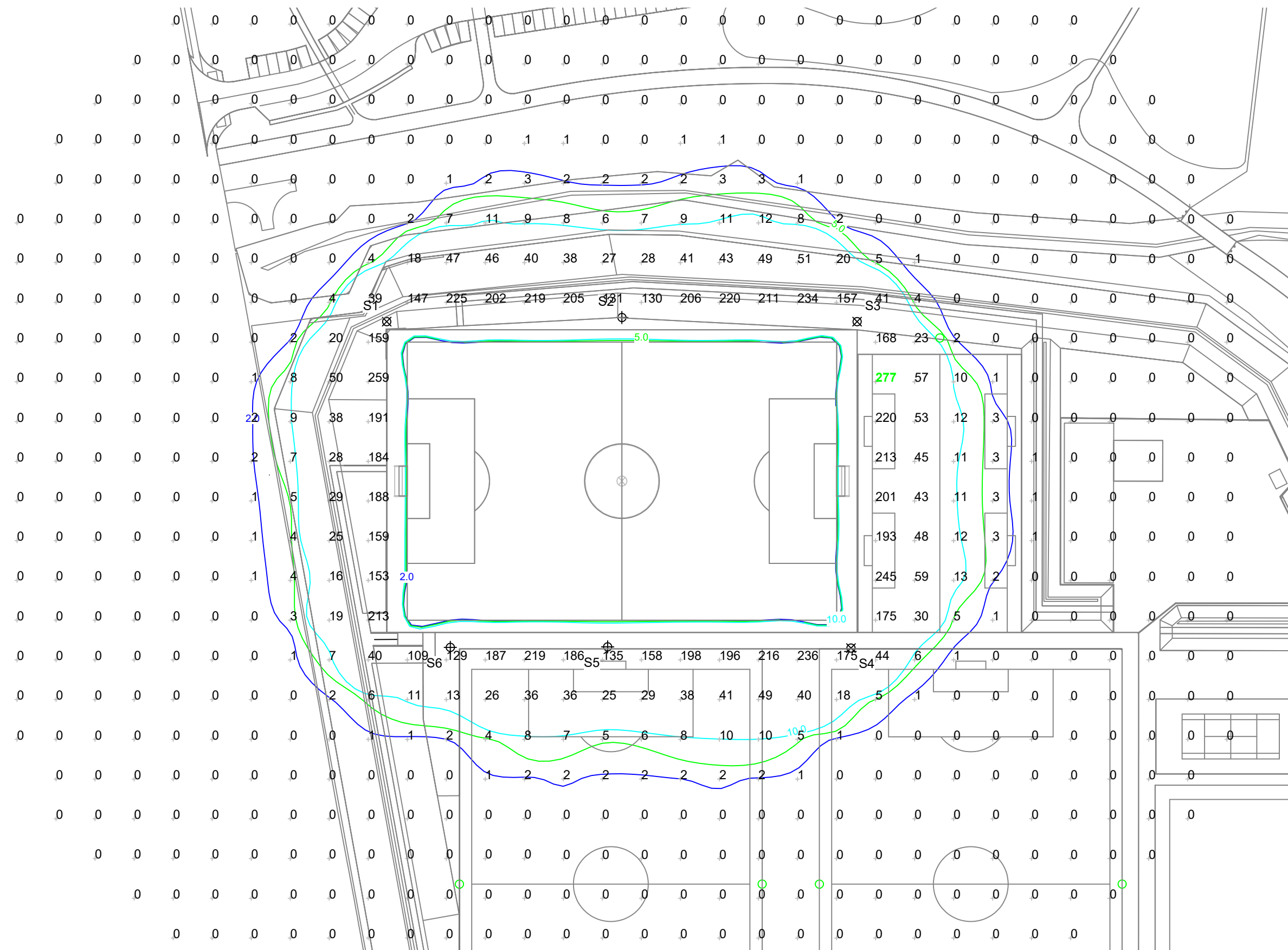
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	13.6346
Maximum:	277.21
Minimum:	0.00
CU:	0.14
No. of Points:	704
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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.



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



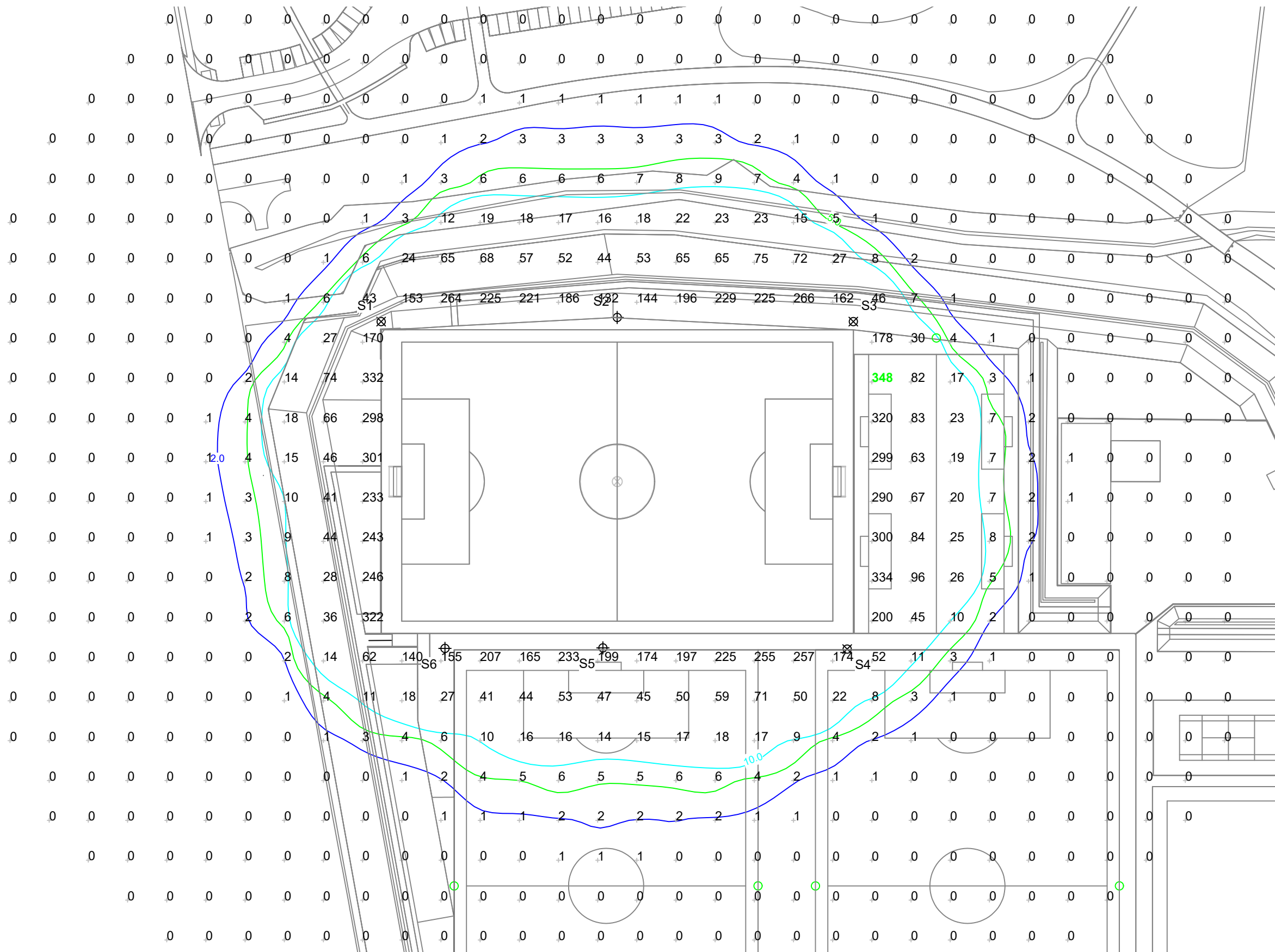
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
6	S1-S6	20m	-	20m	TLC-LED-1200	8	8	0
6	TOTALS					48	48	0

Liverpool, North West

Name:	09 Pitch C Spill
Size:	105.0m x 68.0m
Spacing:	9.5m x 9.7m
Height:	1.0m above grade

MAX VERTICAL LUX	
	Entire Grid
Scan Average:	17.6483
Maximum:	348.12
Minimum:	0.00
CU:	0.14
No. of Points:	704
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	48
Total Load:	56.16 kW

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



A horizontal number line is shown with tick marks at 0, 20m, and 40m. The segment between 0 and 20m is divided into two equal parts by a tick mark at 10m. Each of these two parts is labeled "10m". The segment between 20m and 40m is labeled "20m".

Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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ILLUMINATION SUMMARY

New Liverpool Training Ground
Liverpool, North West

EQUIPMENT LAYOUT

INCLUDES:
· Pitch C

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

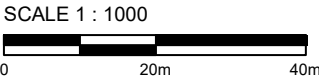
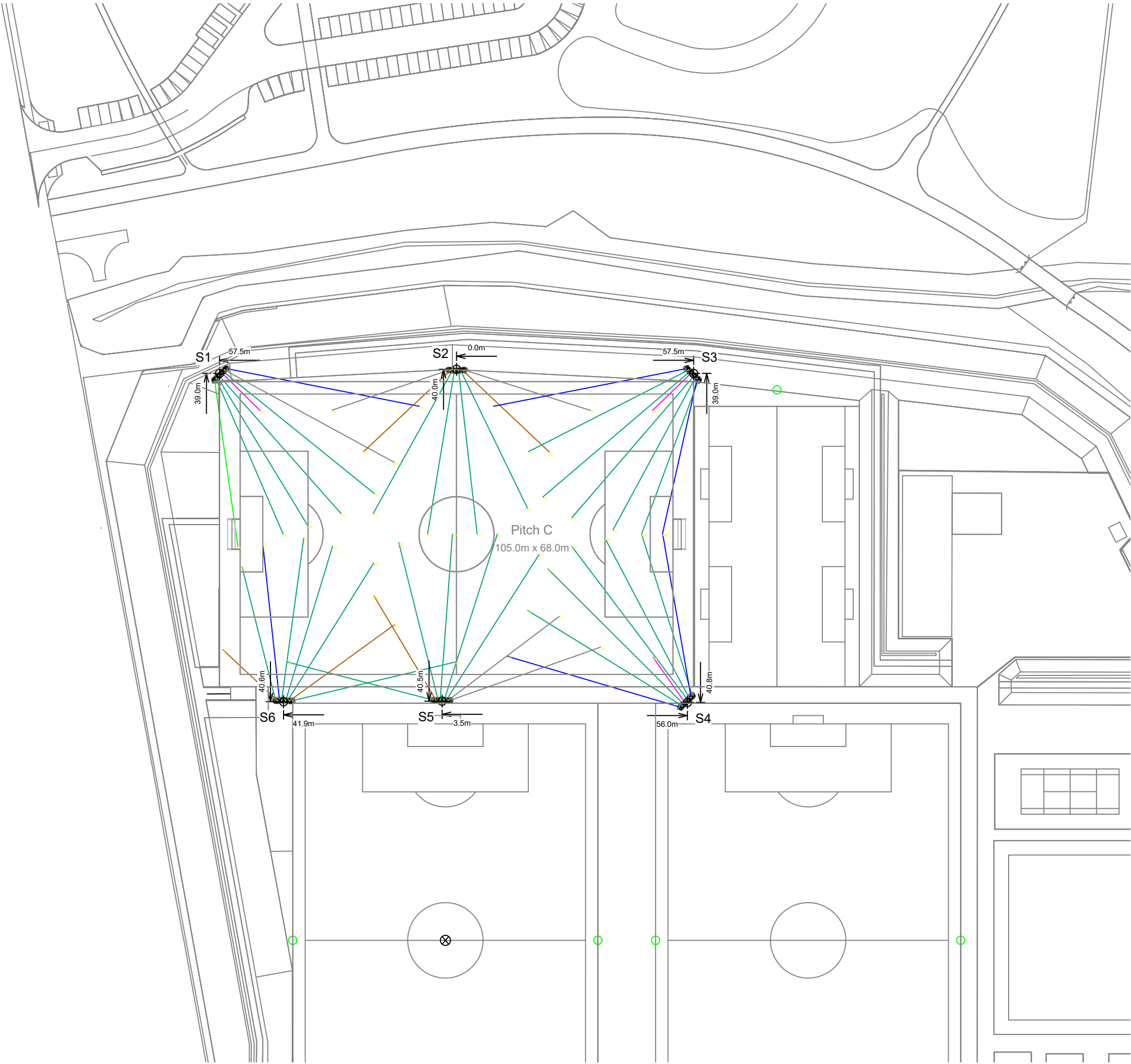
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
6	S1-S6	20m	-	20m	TLC-LED-1200	8
6	TOTALS					48

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)	415 (50)
TLC-LED-1200	6.6	6.3	6.1	4.0	3.8	3.7



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



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Pole ID	Dimensioned From	Pole Location		Light Bank Mounting Height	Reflector NEMA Type	Number	Aiming Point			Aiming Angle		Circuit
		X	Y				X	Y	Z	HOR	VER	
S1	Pitch C	-57.50	38.99	20.00	3	201	-53.06	-2.93	0.00	R 37.0	25.63	D
						204	-9.04	31.03	0.00	L 33.9	22.26	D
						202	-36.09	2.07	0.00	R 13.7	24.88	D
						203	-19.93	9.85	0.00	L 6.1	22.53	D
						205	-42.07	0.06	0.00	R 21.6	24.60	D
						208	-15.10	17.45	0.00	L 16.5	21.88	D
						206	-28.02	5.01	0.00	R 3.5	22.84	D
						207	-47.65	29.98	0.00	L 0.5	55.13	D
S2	Pitch C	-0.00	40.00	20.00	5	209	-30.20	30.08	0.00	R 71.0	33.24	D
						212	32.46	30.04	0.00	L 72.3	31.43	D
						210	-20.24	5.03	0.00	R 29.0	26.24	D
						211	17.22	6.28	0.00	L 25.9	27.75	D
						213	-22.56	20.05	0.00	R 46.9	33.10	D
						216	22.51	19.96	0.00	L 46.7	33.07	D
						214	-7.03	0.04	0.00	R 9.3	25.06	D
						215	4.99	0.04	0.00	L 6.5	25.22	D
S3	Pitch C	57.50	38.99	20.00	4	217	8.96	31.03	0.00	R 34.0	22.22	D
						220	44.89	0.07	0.00	L 24.7	26.15	D
						218	20.93	9.03	0.00	R 4.5	22.63	D
						219	37.96	1.05	0.00	L 16.6	24.90	D
						221	17.45	20.03	0.00	R 18.0	23.35	D
						224	49.97	0.23	0.00	L 32.4	26.05	D
						222	47.55	30.03	0.00	R 0.9	55.05	D
						223	27.96	4.01	0.00	L 4.2	22.48	D
S4	Pitch C	56.00	-40.81	20.00	4	225	44.89	0.02	0.00	R 27.6	25.42	D
						228	12.25	-29.59	0.00	L 28.6	23.97	D
						226	36.00	-0.97	0.00	R 17.2	23.96	D
						227	22.17	-8.41	0.00	L 0.1	22.79	D
						229	49.97	0.17	0.00	R 35.2	24.99	D
						232	17.22	-18.48	0.00	L 13.3	23.09	D
						230	27.97	-2.97	0.00	R 7.9	21.93	D
						231	47.65	-29.81	0.00	R 9.9	54.03	D
S5	Pitch C	-3.50	-40.51	20.00	5	233	34.95	-27.41	0.00	R 70.6	26.84	D
						236	-41.03	-30.99	0.00	L 75.3	28.02	D
						234	20.08	-4.84	0.00	R 32.5	24.98	D
						235	-14.02	-2.00	0.00	L 14.0	26.40	D
						237	24.93	-19.94	0.00	R 53.0	29.14	D
						240	-20.05	-14.97	0.00	L 30.8	32.58	D
						238	9.91	0.02	0.00	R 17.8	23.99	D
						239	-1.02	-0.03	0.00	R 4.2	25.02	D
S6	Pitch C	-41.95	-40.64	20.00	4	241	-0.04	-30.94	0.00	R 76.6	25.48	D
						244	-52.03	-7.95	0.00	L 14.1	30.31	D
						242	-20.10	-6.97	0.00	R 32.0	26.41	D
						243	-47.06	-1.95	0.00	L 6.1	26.83	D
						245	-15.08	-21.97	0.00	R 54.0	30.95	D
						248	-56.72	-27.99	0.00	L 47.0	45.94	D
						246	-30.08	-2.93	0.00	R 16.9	25.68	D
						247	-37.07	-0.97	0.00	R 7.7	25.30	D

New Liverpool Training Ground
Liverpool,North West

Zone Description	Circuits
Zone1	D

