



Parks & Landscape Services Section, Municipal Services Department

**Proposed Development of a Running Track & Associated Facilities at St. Thomas Estate, Tibradden Road, Rathfarnham, Dublin 16 in Proximity to a Protected Structure (St. Thomas House)
PC/PKS/01/19**

Appendix 8 – Floodlighting Design

DSDAC Athletics Centre

Dublin,Leinster

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P2	18.3	18.3	3	TLC-LED-1200	3.69 kW	B
		18.3	2	TLC-LED-1500	3.00 kW	A
T1-T4	21.3	21.3	3	TLC-LED-1200	3.69 kW	B
		21.3	4	TLC-LED-1500	6.00 kW	A
6			38		52.14 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Infield	30.0 kW	20
B	Track	22.14 kW	18

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1230W	132,300	>81,000	>81,000	>81,000	18
TLC-LED-1500	LED 5700K - 75 CRI	1500W	156,100	>81,000	>81,000	>81,000	20

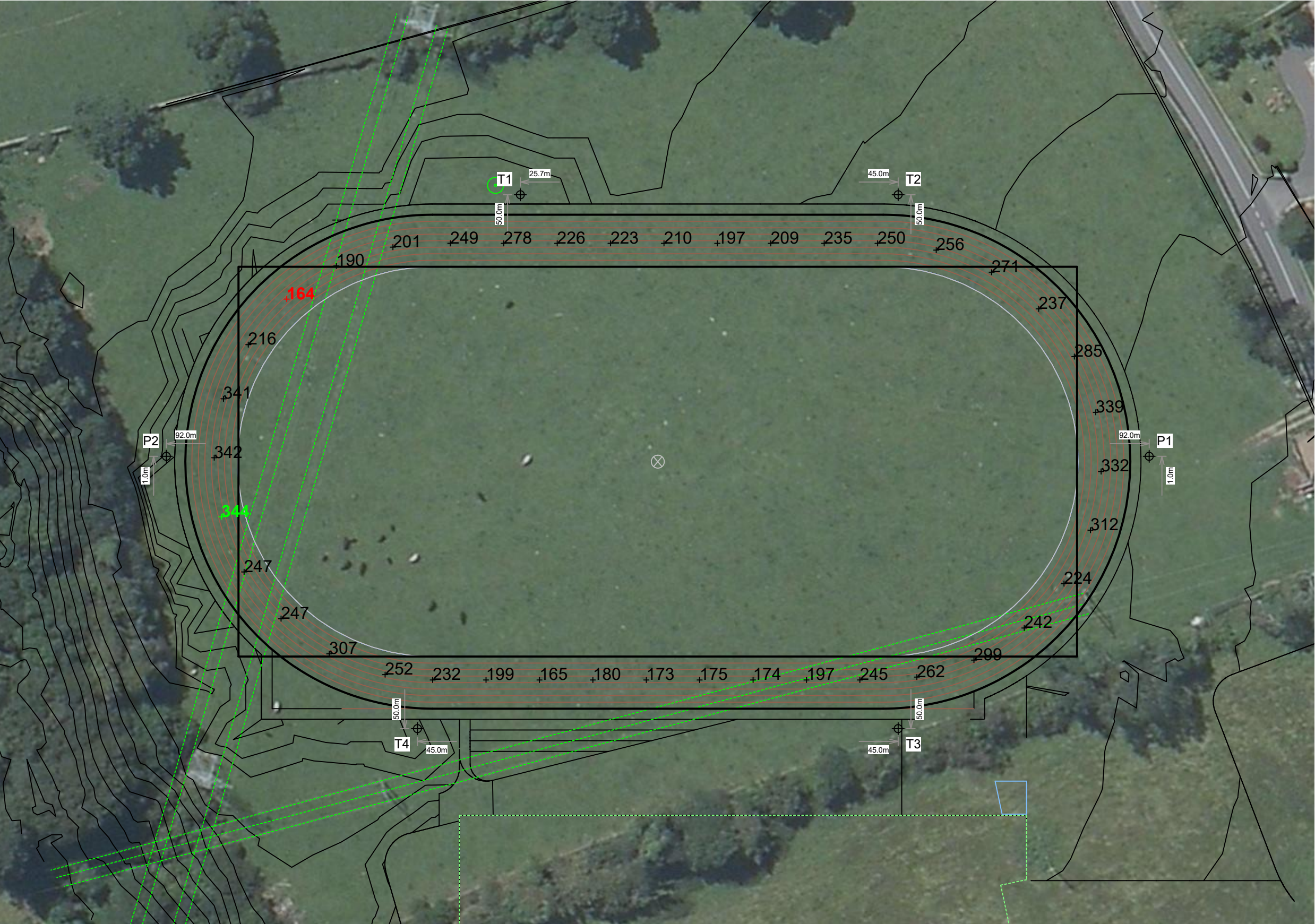
Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
Infield	Horizontal Illuminance	225	149	333	0.45	0.66	A	20
Road Spill	Horizontal	0.30	0	1.16	0.00	0.00	A,B	38
Road Spill	Max Vertical Illuminance Metric	0.75	0	2.87	0.00	0.00	A,B	38
Spill Grid	Horizontal	42.9	0	634	0.00	0.00	A,B	38
Spill Grid	Max Vert Illuminance (by Light Bank)	56.1	0	763	0.00	0.00	A,B	38
Track	Horizontal Illuminance	243	164	344	0.48	0.67	B	18
Tree Spill	Horizontal	6.96	0	41.1	0.00	0.00	A,B	38
Tree Spill	Max Vertical Illuminance Metric	9.32	0	49.2	0.00	0.00	A,B	38

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-P2	18.29m	-	18.29m	TLC-LED-1500	2	0
				18.29m	TLC-LED-1200	3	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	0
				21.34m	TLC-LED-1200	3	3
6	TOTALS					38	18
							20



DSDAC Athletics Centre
Dublin,Leinster

GRID SUMMARY	
Name:	Track
Size:	Irregular
Spacing:	10.0m x 10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
		Entire Grid		
Scan Average:	243.19			
Maximum:	343.86			
Minimum:	163.76			
Min / Avg:	0.67			
Min / Max:	0.48			
UG (adjacent pts):	0.00			
CU:	0.42			
No. of Points:	40			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	156,100 / 132,300 lumens			
No. of Luminaires:	18			
Total Load:	22.14 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-1500	>81,000	>81,000	>81,000	
TLC-LED-1200	>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.



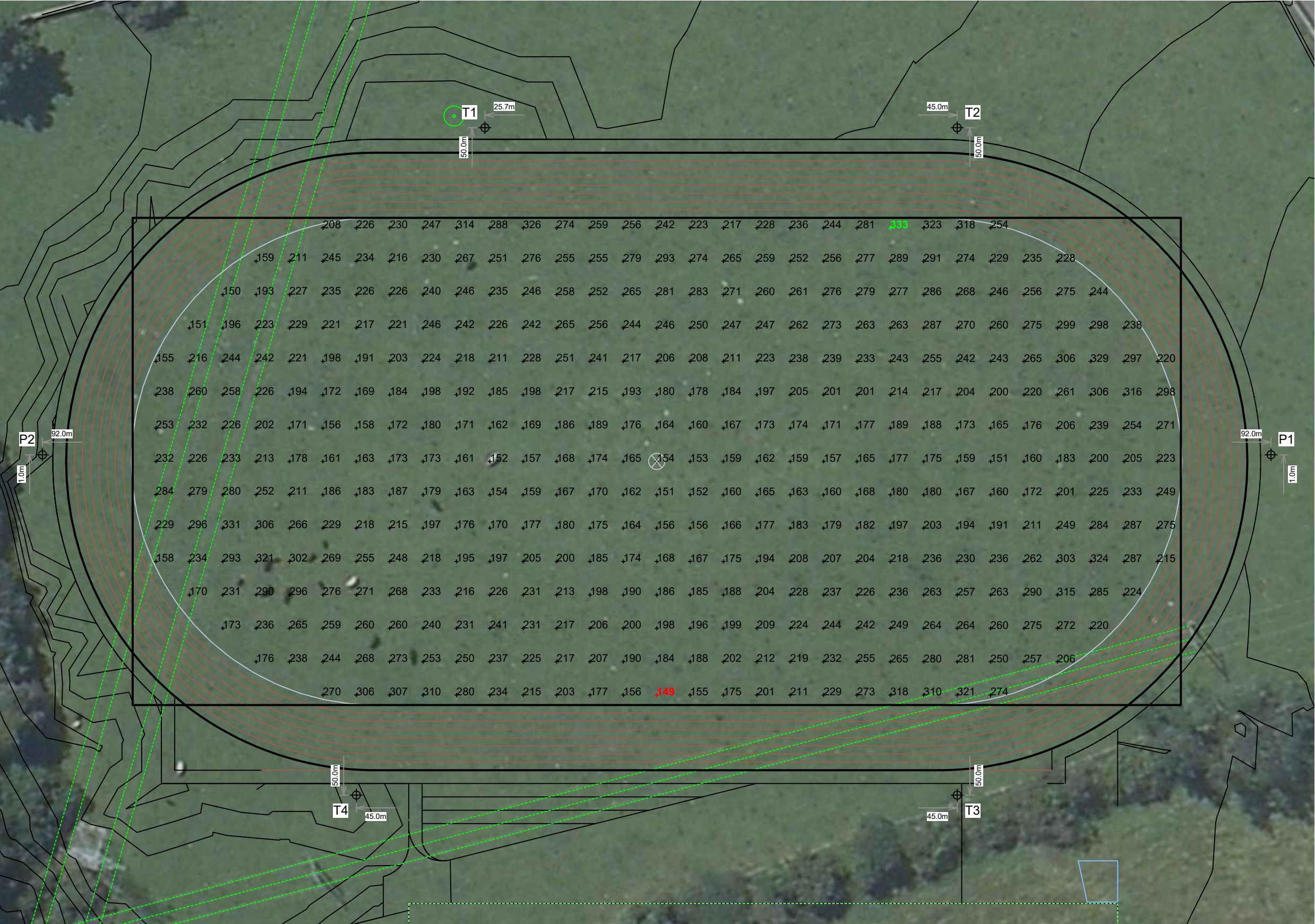
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ILLUMINATION SUMMARY



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	OTHER GRIDS
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2	0
				18.29m	TLC-LED-1200	3	0	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4	0
				21.34m	TLC-LED-1200	3	0	3
6	TOTALS					38	20	18



DSDAC Athletics Centre

Dublin,Leinster

GRID SUMMARY	
Name:	Infield
Size:	157.0m x 73.0m
Spacing:	5.0m x 5.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Scan Average:	224.92			
Maximum:	332.58			
Minimum:	148.93			
Min / Avg:	0.66			
Min / Max:	0.45			
UG (adjacent pts):	1.54			
CU:	0.74			
No. of Points:	421			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	156,100 lumens			
No. of Luminaires:	20			
Total Load:	30.0 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-1500	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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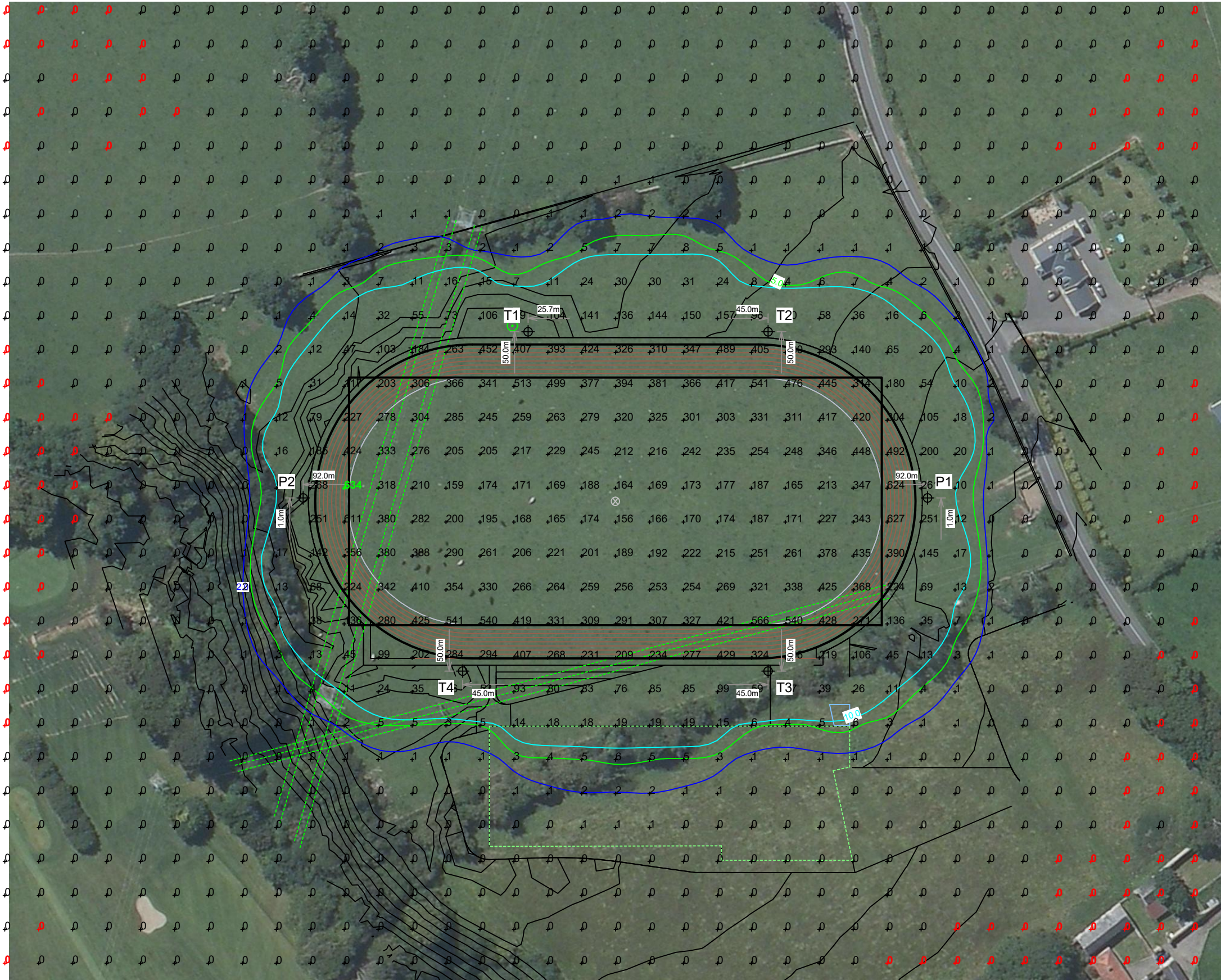
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ILLUMINATION SUMMARY



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-P2	18.29m	-	18.29m	TLC-LED-1500	2	2
				18.29m	TLC-LED-1200	3	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4
				21.34m	TLC-LED-1200	3	3
6	TOTALS					38	38



DSDAC Athletics Centre

Dublin, Leinster

GRID SUMMARY	
Name:	Spill Grid
Size:	157.0m x 73.0m
Spacing:	10.0m x 10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Scan Average:	42.88		
Maximum:	634.28		
Minimum:	0.00		
Min / Avg:	0.00		
Min / Max:	0.00		
UG (adjacent pts):	111.02		
CU:	1.00		
No. of Points:	1296		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	156,100 / 132,300 lumens		
No. of Luminaires:	38		
Total Load:	52.14 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1500	>81,000	>81,000	>81,000
TLC-LED-1200	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

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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.

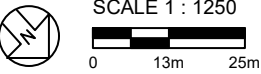
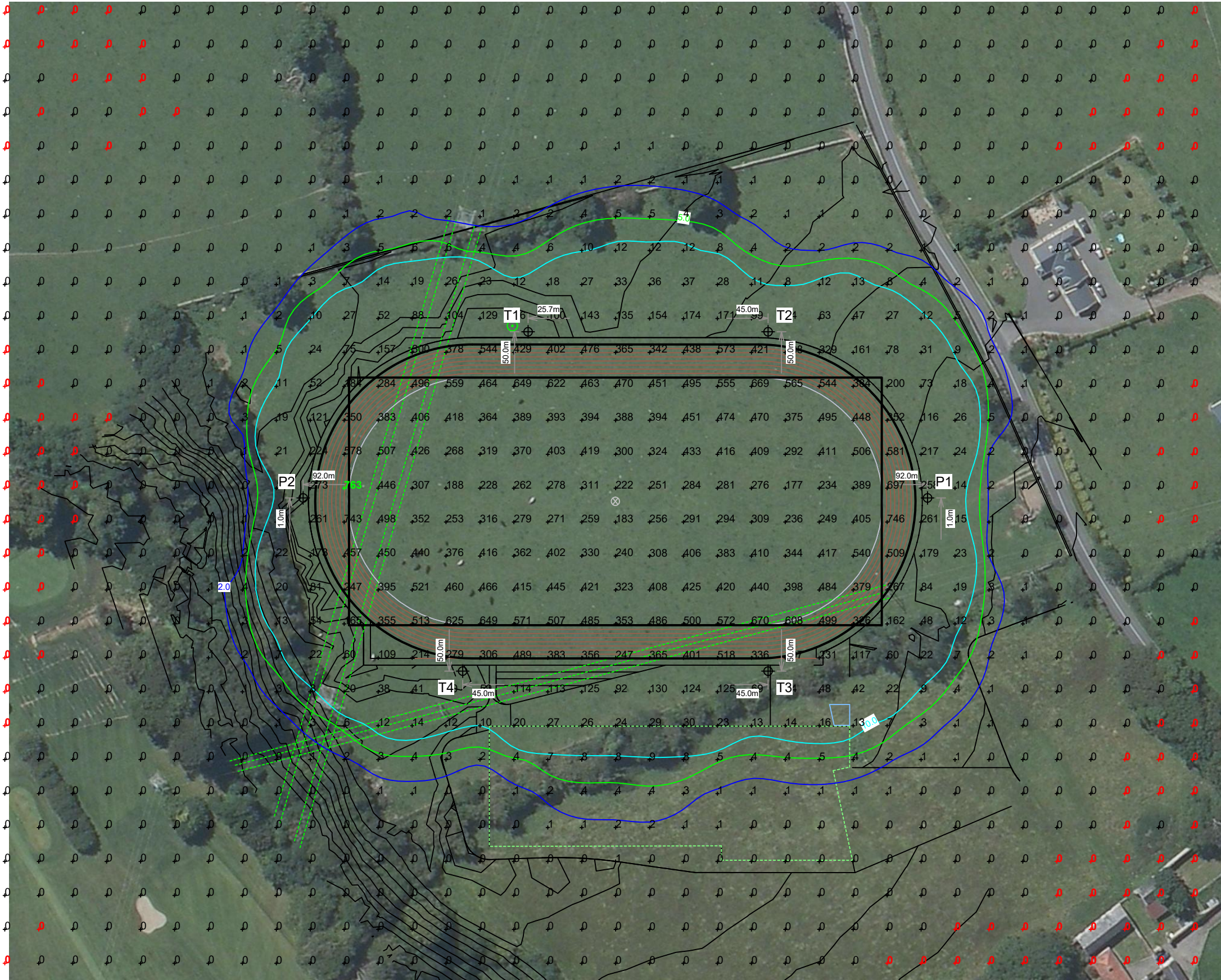


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN							
Pole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2
				18.29m	TLC-LED-1200	3	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4
				21.34m	TLC-LED-1200	3	3
6	TOTALS					38	38
						0	0



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

DSDAC Athletics Centre

Dublin,Leinster

GRID SUMMARY	
Name:	Spill Grid
Size:	157.0m x 73.0m
Spacing:	10.0m x 10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED MAX VERTICAL LUX			
	Entire Grid		
Scan Average:	56.11		
Maximum:	762.62		
Minimum:	0.00		
Min / Avg:	0.00		
Min / Max:	0.00		
UG (adjacent pts):	341.14		
CU:	1.00		
No. of Points:	1296		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	156,100 / 132,300 lumens		
No. of Luminaires:	38		
Total Load:	52.14 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1500	>81,000	>81,000	>81,000
TLC-LED-1200	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

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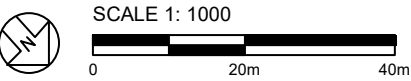
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2	0
				18.29m	TLC-LED-1200	3	3	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4	0
				21.34m	TLC-LED-1200	3	3	0
6	TOTALS					38	38	0



ENGINEERED DESIGN By: W.Svarverud • File #198067B • 21-Mar-19

DSDAC Athletics Centre

Dublin,Leinster

GRID SUMMARY	
Name:	Road Spill
Spacing:	10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
HORIZONTAL LUX				
Scan Average:		Entire Grid		
		0.2986		
Maximum:		1.1600		
Minimum:		0.0002		
No. of Points:		19		
LUMINAIRE INFORMATION				
Color / CRI:		5700K - 75 CRI		
Luminaire Output:		156,100 / 132,300 lumens		
No. of Luminaires:		38		
Total Load:		52.14 kW		
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-1500	>81,000	>81,000	>81,000	
TLC-LED-1200	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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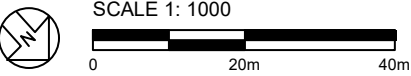
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2	0
				18.29m	TLC-LED-1200	3	3	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4	0
				21.34m	TLC-LED-1200	3	3	0
6	TOTALS					38	38	0



DSDAC Athletics Centre

Dublin,Leinster

GRID SUMMARY	
Name:	Road Spill
Spacing:	10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
MAX VERTICAL LUX				
		Entire Grid		
Scan Average:		0.7510		
Maximum:		2.8698		
Minimum:		0.0020		
No. of Points:		19		
LUMINAIRE INFORMATION				
Color / CRI:		5700K - 75 CRI		
Luminaire Output:		156,100 / 132,300 lumens		
No. of Luminaires:		38		
Total Load:		52.14 kW		
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-1500	>81,000	>81,000	>81,000	
TLC-LED-1200	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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

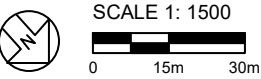
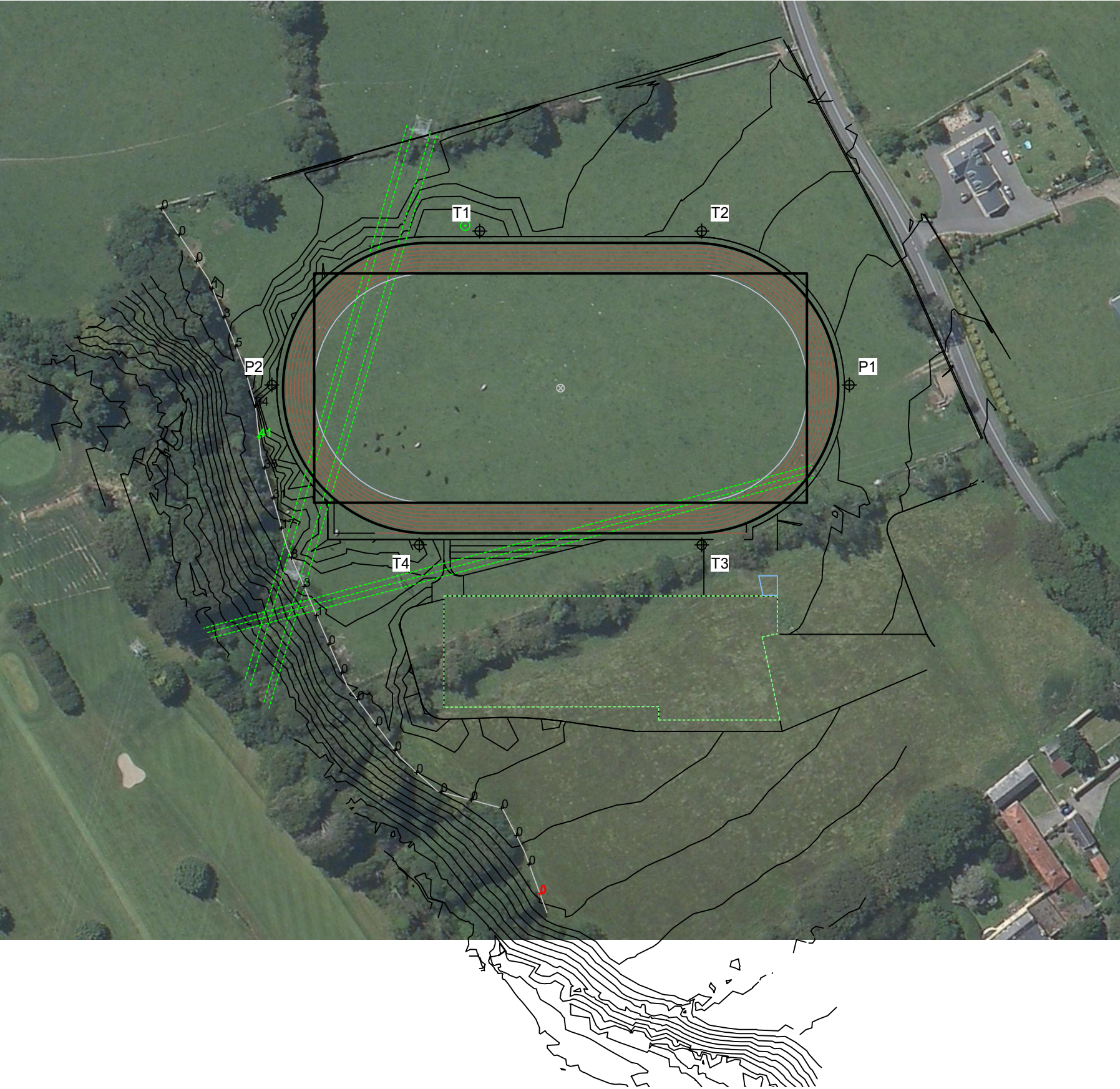
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN							
Pole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2
				18.29m	TLC-LED-1200	3	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4
				21.34m	TLC-LED-1200	3	3
6	TOTALS					38	38
							0



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

DSDAC Athletics Centre
Dublin,Leinster

GRID SUMMARY	
Name:	Tree Spill
Spacing:	10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY				
HORIZONTAL LUX				
Scan Average:		Entire Grid		
		6.9603		
Maximum:		41.1370		
Minimum:		0.0000		
No. of Points:		27		
LUMINAIRE INFORMATION				
Color / CRI:		5700K - 75 CRI		
Luminaire Output:		156,100 / 132,300 lumens		
No. of Luminaires:		38		
Total Load:		52.14 kW		
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-1500	>81,000	>81,000	>81,000	
TLC-LED-1200	>81,000	>81,000	>81,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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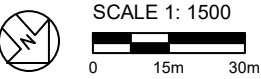
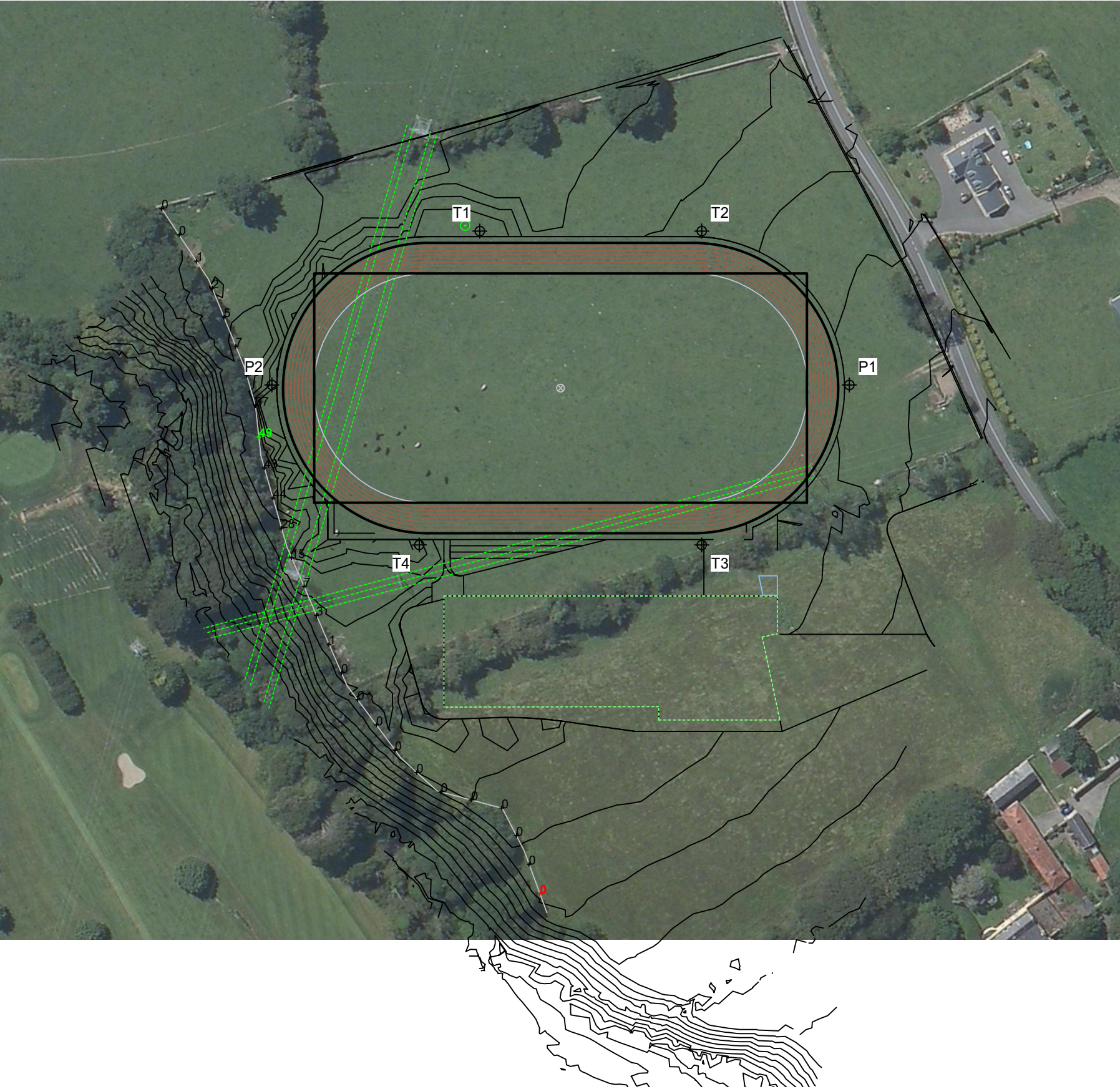
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EQUIPMENT LIST FOR AREAS SHOWN							
Pole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2	2
				18.29m	TLC-LED-1200	3	3
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4	4
				21.34m	TLC-LED-1200	3	3
6	TOTALS					38	38
							0



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

DSDAC Athletics Centre

Dublin,Leinster

GRID SUMMARY	
Name:	Tree Spill
Spacing:	10.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAX VERTICAL LUX			
		Entire Grid	
Scan Average:	9.3174		
Maximum:	49.2437		
Minimum:	0.0000		
No. of Points:	27		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	156,100 / 132,300 lumens		
No. of Luminaires:	38		
Total Load:	52.14 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1500	>81,000	>81,000	>81,000
TLC-LED-1200	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

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ILLUMINATION SUMMARY



DSDAC Athletics Centre

Dublin, Leinster

EQUIPMENT LAYOUT

INCLUDES:

- Infield
- Track

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.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	P1-P2	18.29m	-	18.29m	TLC-LED-1500	2
4	T1-T4	21.34m	-	21.34m	TLC-LED-1500	4
6	TOTALS					38

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)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-1200	7.3	6.9	6.3	5.5	4.4	3.2
TLC-LED-1500	9.0	8.5	7.8	6.7	5.4	3.9

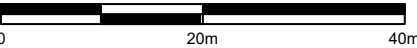


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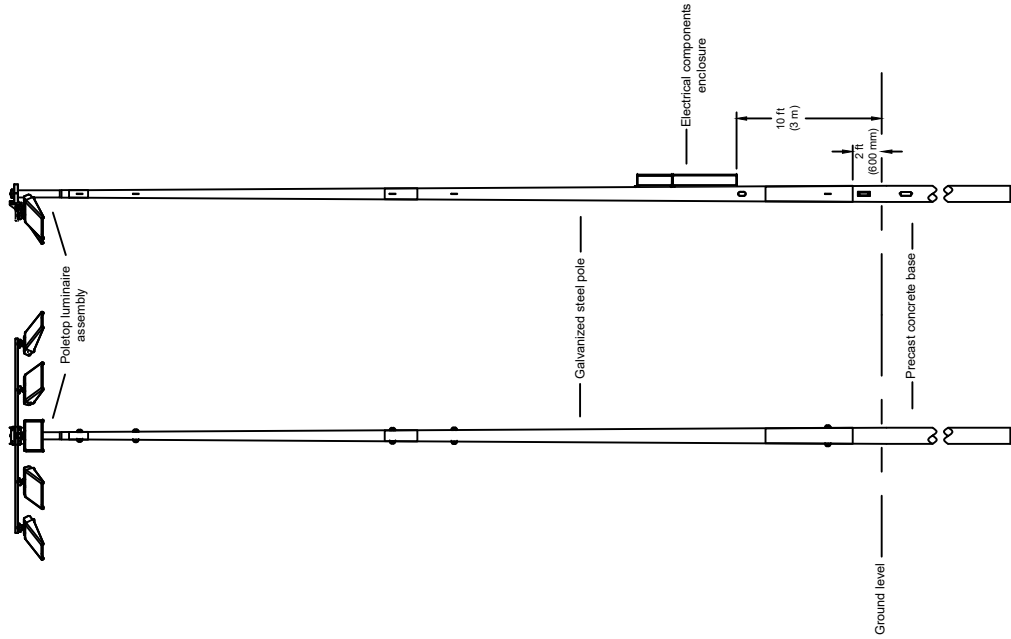
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SCALE 1: 750



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



POLE(S): P1, P2
 Musco 60FT Light-Structure System™ pole
 TLC for LED™ luminaires

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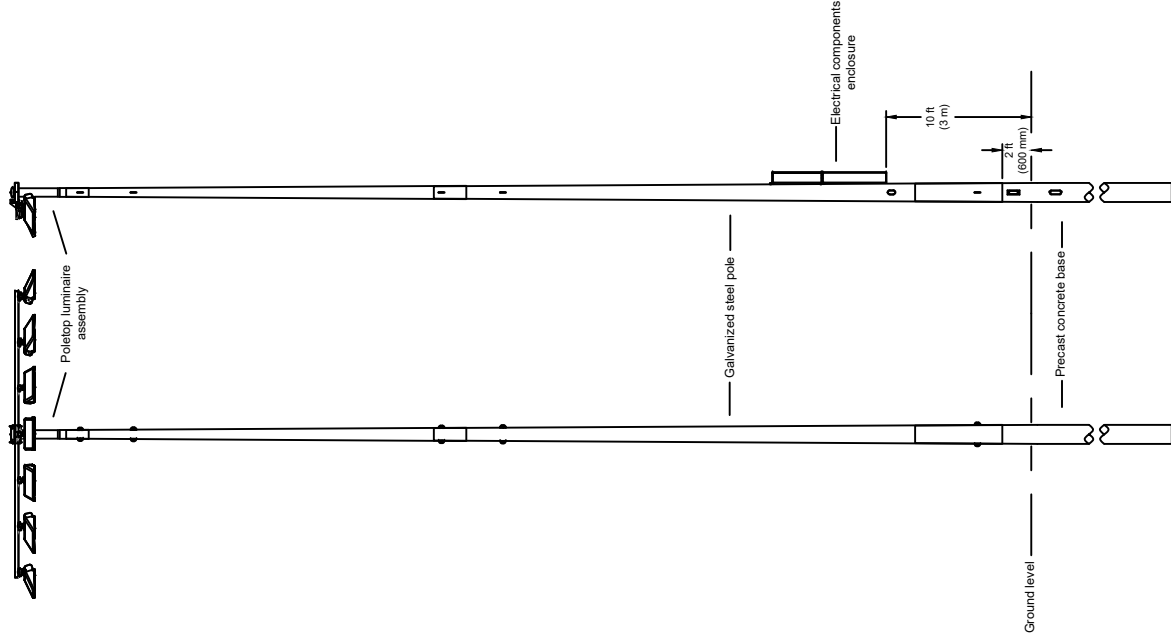
PROJECT NUMBER:	198067
DRAWN BY:	W.Svarverud
SCALE:	NTS
DATE:	04/09/2019
DRAWING NUMBER:	198067P1
1 OF 4 SHEETS	

DATE:	BY:	RL

musco
Lighting

CORPORATE OFFICE:
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 100 1st Avenue West
 Muskegon, Michigan 49577
 USA
 TEL: 231-923-0201
 FAX: 231-923-0411

DSDAC Athletics Centre
Dublin, Leinster
 Pole Configuration Drawing



POLE(S): T1, T3
Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires

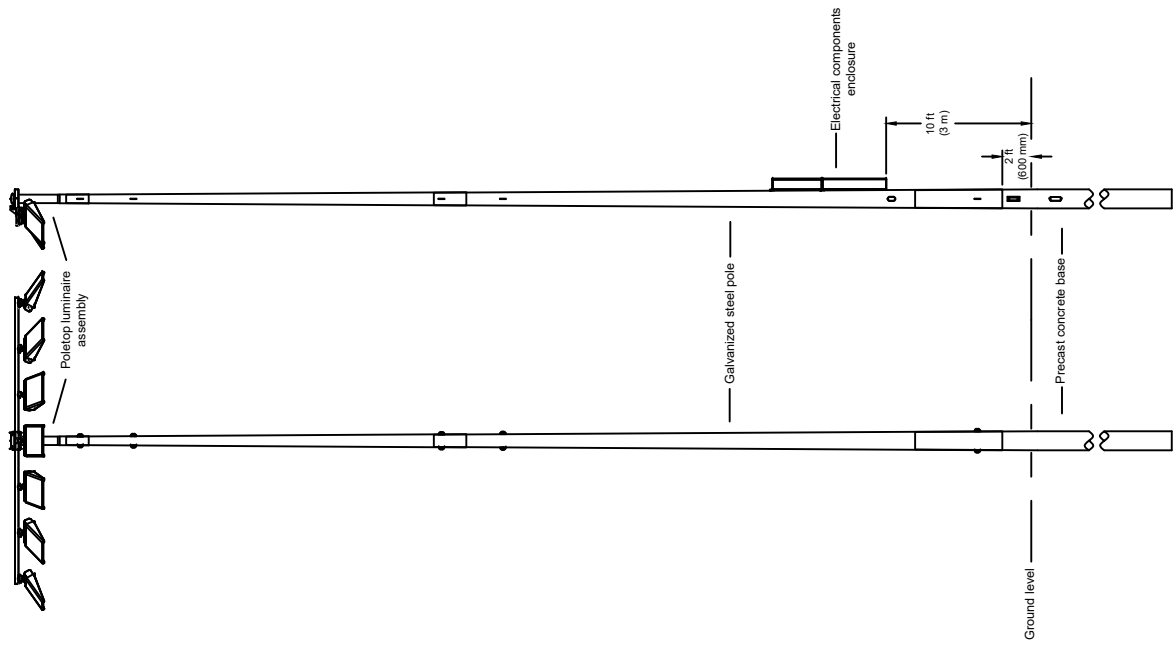
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PROJECT NUMBER: 198067	
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SCALE: NTS	
DATE: 04/09/2019	
DRAWING NUMBER: 198067P1	
2 OF 4 SHEETS	

DATE:	BY: R.L.	REVISIONS:

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+1-841-272-0411	

DSDAC Athletics Centre	
Dublin, Leinster	
Pole Configuration Drawing	



POLE(S): T2
 Musco 70FT Light-Structure System™ pole
 TLC for LED™ luminaires

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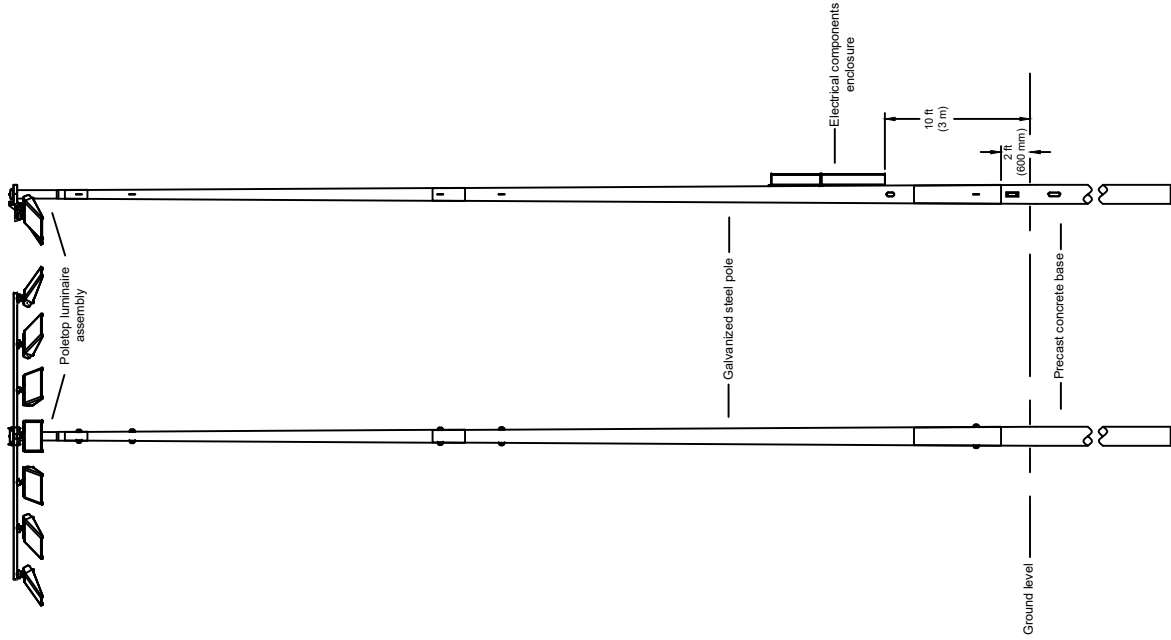
DSDAC Athletics Centre
 Dublin, Leinster
 Pole Configuration Drawing

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PROJECT NUMBER:
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DRAWN BY:
 W.Svarverud
SCALE:
 NTS
DATE:
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POLE(S): T4
Musco 70FT Light-Structure System™ pole
TLC for LED™ luminaires

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DRAWN BY:	W.Svarverud
SCALE:	NTS
DATE:	04/09/2019
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DSDAC Athletics Centre Dublin, Leinster Pole Configuration Drawing
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