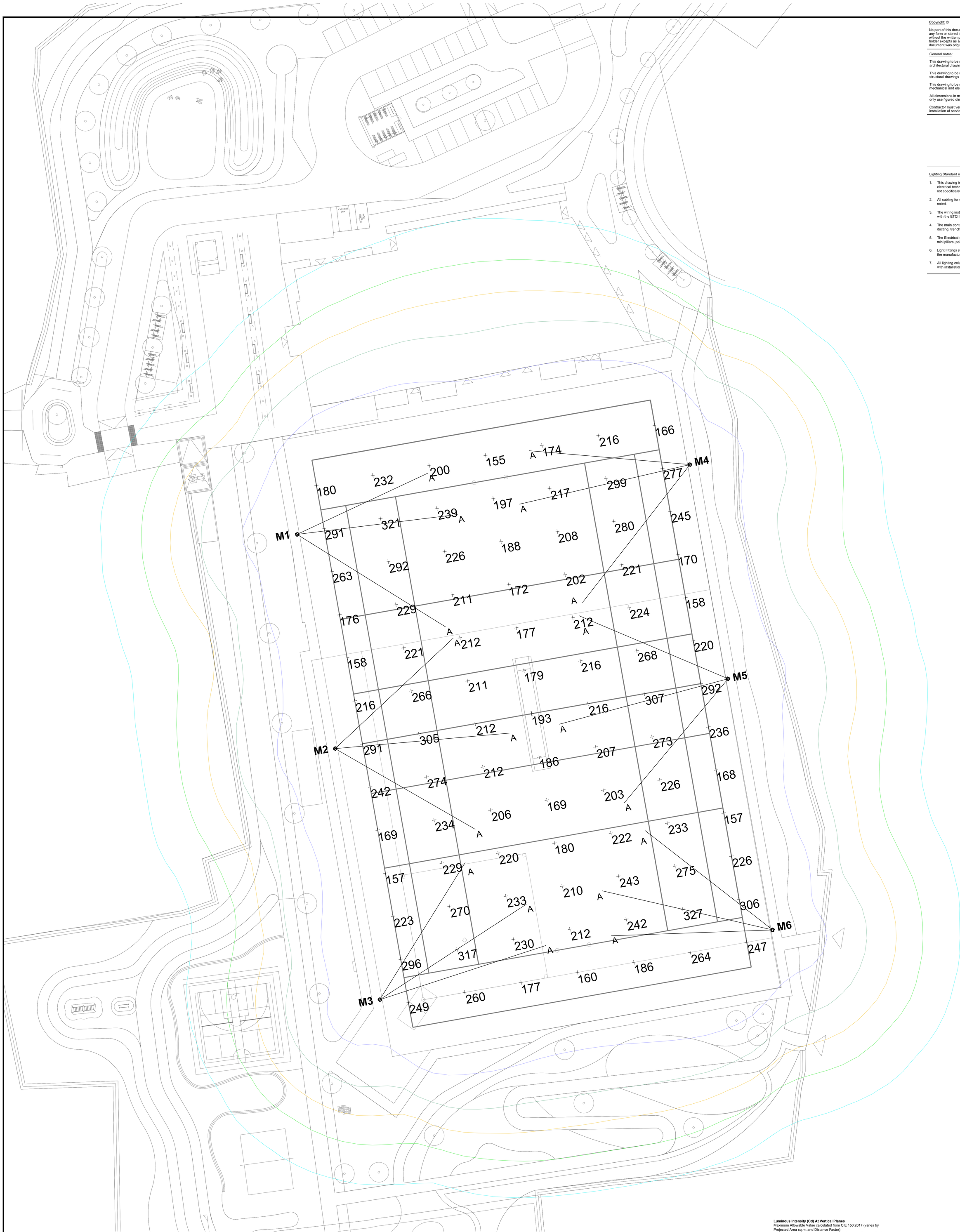

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General notes:

This drawing to be read in conjunction with all relevant architectural drawings and specifications.

This drawing to be read in conjunction with all relevant structural drawings and specifications.

This drawing to be read in conjunction with all relevant mechanical and electrical drawings and specifications.

All dimensions in millimeters. do not scale from this drawing. only use figured dimensions only.

Contractor must verify all dimensions on site prior to installation of services and production of working drawings.

Lighting Standard notes:

1. This drawing is to be read in conjunction with the electrical technical specification which mentions items not specifically mentioned on contract drawings.
2. All cabling for external lighting circuits to be as per noted.
3. The wiring installation must be installed in accordance with the ETCI IS10101
4. The main contractor shall be responsible for all ducting, trenching, drawchambers, pull ropes.
5. The Electrical contractor shall be responsible for all mini pillars, poles.
6. Light Fittings shall be installed in strict accordance with the manufactures instructions.
7. All lighting columns shall be installed in accordance with installation guides.

Lighting Schedule Project Total (for mast arrangements see table/s below)						
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts	Luminaire Lumens
•	A	18	AL6102_15830S + FS2 + RS2 Challenger 1 LED	20	1539.1	139111

Mast Arrangement						
M1 - M6						
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts	Luminaire Lumens
•	A	3	AL6102_15830S + FS2 + RS2 Challenger 1 LED	20	1539.1	139111

Horizontal Illuminance Levels				
IRFU Match Specification				
Label	CalcType	Units	Avg	Min/Avg
Rugby Pitch	Illuminance	Lux	200	0.60

Calculation Summary							
Initial Calculations							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Rugby Pitch	Illuminance	Lux	226	327	155	0.69	0.47

Calculation Summary							
Maintained Calculations							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Rugby Pitch	Illuminance	Lux	203	294	140	0.69	0.47

Area Summary	
Label	Total Watts
Rugby Pitch	27,704

Glare Summary	
Label	GR*max*
Glare Rating	40

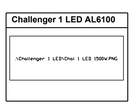
Calculation Grid Intervals	
Label	Grid
Rugby Pitch (Including 5m Trylines)	13 x 7

Area Dimensions		
Area	L (m)	W (m)
Rugby Pitch (Post to Post)	94	68

Isoline Legend	
Illuminance (Lux)	
Colour	Value
	2
	5
	10
	20
	50

Maintenance Factor 0.9
Dirt depreciation factor:
BS5489-1:2020 Table C.1
12 month cleaning intervals

Challenger 1 LED AL6100



Obtrusive Light - Compliance Report
CIE 150:2017, E3-Medium District Brightness, Pre-Curfew
Filename: LS4070310B Kington Park and Millers Lane - Rugby
24/09/2025 09:42:31

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (37):

Calculation Label	Test Results	Max. Illum.
Altan Apartments_Ill_Seg1	PASS	0
Clybaun Ct_1_Ill_Seg1	PASS	0
Clybaun Ct_10_Ill_Seg1	PASS	0
Clybaun Ct_11_Ill_Seg1	PASS	0
Clybaun Ct_12_Ill_Seg1	PASS	0
Clybaun Ct_13_Ill_Seg1	PASS	0
Clybaun Ct_14_Ill_Seg1	PASS	0
Clybaun Ct_2_Ill_Seg1	PASS	0
Clybaun Ct_3_Ill_Seg1	PASS	0
Clybaun Ct_4_Ill_Seg1	PASS	0
Clybaun Ct_5_Ill_Seg1	PASS	0
Clybaun Ct_6_Ill_Seg1	PASS	0
Clybaun Ct_7_Ill_Seg1	PASS	0
Clybaun Ct_8_Ill_Seg1	PASS	0
Clybaun Ct_9_Ill_Seg1	PASS	0
Clybaun Ct_Ill_Seg1	PASS	0
Doire Gheal_1_Ill_Seg1	PASS	0
Doire Gheal_2_Ill_Seg1	PASS	0
Doire Gheal_3_Ill_Seg1	PASS	0
Doire Gheal_4_Ill_Seg1	PASS	0
Doire Gheal_5_Ill_Seg1	PASS	0
Doire Gheal_6_Ill_Seg1	PASS	0
Doire Gheal_7_Ill_Seg1	PASS	0
Doire Gheal_8_Ill_Seg1	PASS	0
Doire Gheal_9_Ill_Seg1	PASS	0
Gort Siar_1_Ill_Seg1	PASS	0
Gort Siar_2_Ill_Seg1	PASS	0
Gort Siar_3_Ill_Seg1	PASS	0
Gort Siar_4_Ill_Seg1	PASS	0
Gort Siar_5_Ill_Seg1	PASS	0
Gort Siar_6_Ill_Seg1	PASS	0
Gort Siar_7_Ill_Seg1	PASS	0
Kingston Gardens_1_Ill_Seg1	PASS	0
Kingston Gardens_2_Ill_Seg1	PASS	0
Kingston Gardens_3_Ill_Seg1	PASS	0
Kingston Gardens_4_Ill_Seg1	PASS	0
Kingston Gardens_Ill_Seg1	PASS	1

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value calculated from CIE 150:2017 (varies by Projected Area sq.m. and Distance Factor)
For E3-Medium District Brightness, Projected Area and Distance Factors:
(0.002, 0.86) (0.01, 1.9) (0.03, 3.8) (0.13, 7.5) (0.5, 15)

Calculations Tested (37):

Calculation Label	Test Results
Altan Apartments_Cd_Seg1	PASS
Clybaun Ct_1_Cd_Seg1	PASS
Clybaun Ct_10_Cd_Seg1	PASS
Clybaun Ct_11_Cd_Seg1	PASS
Clybaun Ct_12_Cd_Seg1	PASS
Clybaun Ct_13_Cd_Seg1	PASS
Clybaun Ct_14_Cd_Seg1	PASS
Clybaun Ct_2_Cd_Seg1	PASS
Clybaun Ct_3_Cd_Seg1	PASS
Clybaun Ct_4_Cd_Seg1	PASS
Clybaun Ct_5_Cd_Seg1	PASS
Clybaun Ct_6_Cd_Seg1	PASS
Clybaun Ct_7_Cd_Seg1	PASS
Clybaun Ct_8_Cd_Seg1	PASS
Clybaun Ct_9_Cd_Seg1	PASS
Clybaun Ct_Cd_Seg1	PASS
Doire Gheal_1_Cd_Seg1	PASS
Doire Gheal_2_Cd_Seg1	PASS
Doire Gheal_3_Cd_Seg1	PASS
Doire Gheal_4_Cd_Seg1	PASS
Doire Gheal_5_Cd_Seg1	PASS
Doire Gheal_6_Cd_Seg1	PASS
Doire Gheal_7_Cd_Seg1	PASS
Doire Gheal_8_Cd_Seg1	PASS
Doire Gheal_9_Cd_Seg1	PASS
Gort Siar_1_Cd_Seg1	PASS
Gort Siar_2_Cd_Seg1	PASS
Gort Siar_3_Cd_Seg1	PASS
Gort Siar_4_Cd_Seg1	PASS
Gort Siar_5_Cd_Seg1	PASS
Gort Siar_6_Cd_Seg1	PASS
Gort Siar_7_Cd_Seg1	PASS
Kingston Gardens_1_Cd_Seg1	PASS
Kingston Gardens_2_Cd_Seg1	PASS
Kingston Gardens_3_Cd_Seg1	PASS
Kingston Gardens_4_Cd_Seg1	PASS
Kingston Gardens_Cd_Seg1	PASS

Notes:
This scheme has been designed based upon a flat and open area.
Shadowing from obstructions have not been taken into account.

Drawing and mast locations converted from satellite image, please check dimensions before ordering and installing.

Customer to confirm suitability and structural integrity of existing masts prior to placing an order.

Initial levels shown on drawing.

N

Rev	Description	Date
P1	Issued for Planning	18/09/2025

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Client: Galway City Council

Architect: DRLA Landscape Architects 12 Barrington St. Limerick

Project: Kingston Park and Millers Lane – Public Park and Urban Realm Project

Drawing: Electrical Installation
Site Lighting & Lux Levels
Kingston Park - Multi-Sport Pitch Lighting

Proj Ref | 24.2812	Drg Ref | P-E101	Scale | 1:250 A0
Drawn | GJA	Checked | JM	Approved | MF

Drawing Status:
Preliminary ☐ Planning Stage ✓ Tender Issue ☐
For Information ☐ Construction Stage ☐ Contract Issue ☐