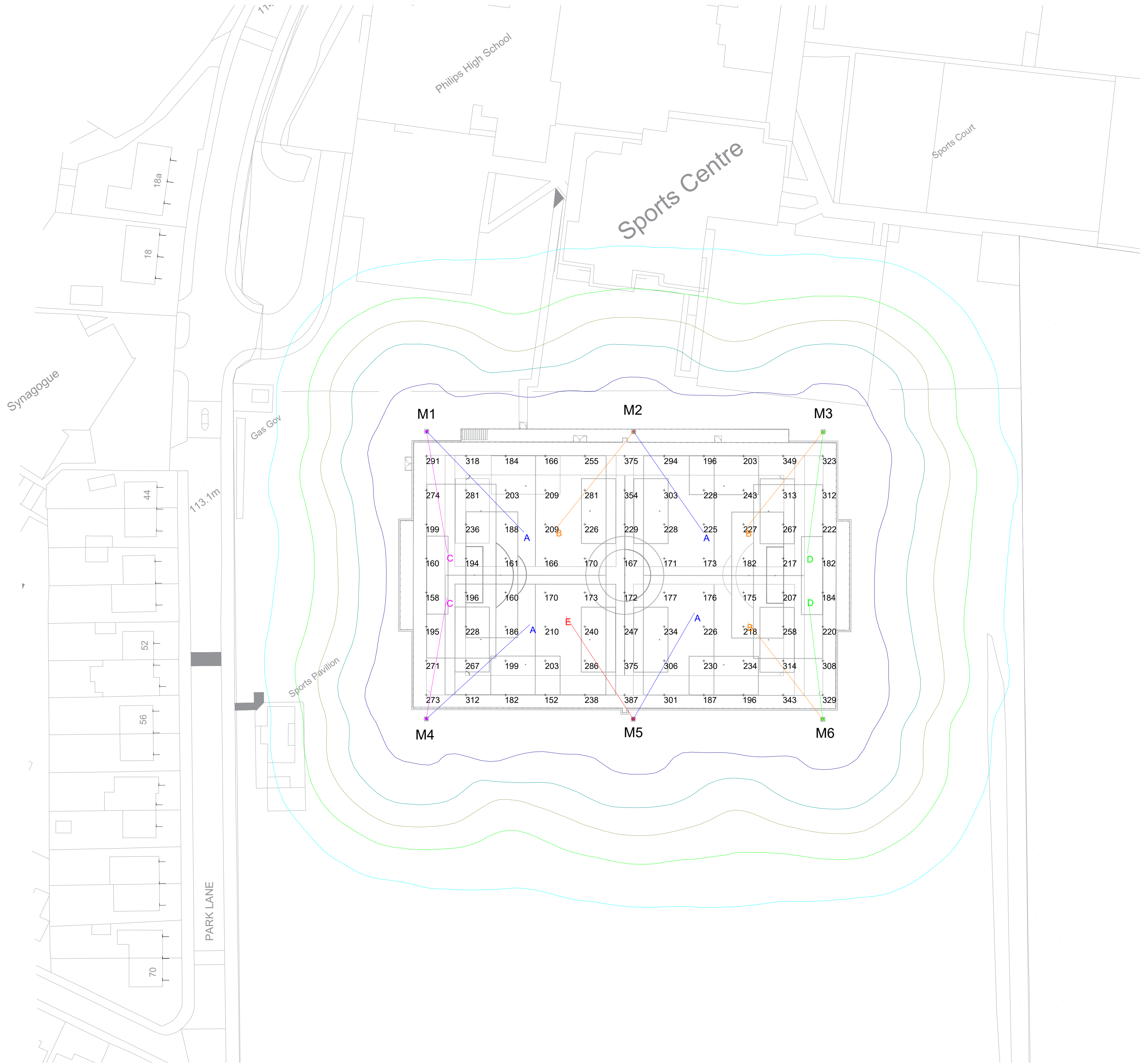




Lighting Schedule Project Total (for mast arrangements see table(s) below)					
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts Luminaire Lumens
	A	4	AL6102_15752S Challenger 1 LED	15	1539 203437
	B	3	AL6102_15752S + FS1 Challenger 1 LED	15	1532.6 187137
	C	2	AL6201_10752S + FS2 Challenger 1 LED	15	1010 110539
	D	2	AL6201_10752S Challenger 1 LED	15	1016 129087
	E	1	AL6102_15752S + FS2 Challenger 1 LED	15	1527.9 167971

Mast Arrangement					
M1,M4					
Symbol	Tag	Qty	Description	Mounting Height	Luminaire Watts Luminaire Lumens
	A	1	AL6102_15752S Challenger 1 LED	15	1539 203437
	C	1	AL6201_10752S + FS2 Challenger 1 LED	15	1010 110539

Mast Arrangement					
M2					
Symbol	Tag	Qty	Description	Mounting Height	Luminaire Watts Luminaire Lumens
	A	1	AL6102_15752S Challenger 1 LED	15	1539 203437
	B	1	AL6102_15752S + FS1 Challenger 1 LED	15	1532.6 187137

Mast Arrangement					
M3,M6					
Symbol	Tag	Qty	Description	Mounting Height	Luminaire Watts Luminaire Lumens
	B	1	AL6102_15752S + FS1 Challenger 1 LED	15	1532.6 187137
	D	1	AL6201_10752S Challenger 1 LED	15	1016 129087

Mast Arrangement					
M5					
Symbol	Tag	Qty	Description	Mounting Height	Luminaire Watts Luminaire Lumens
	A	1	AL6102_15752S Challenger 1 LED	15	1539 203437
	E	1	AL6102_15752S + FS2 Challenger 1 LED	15	1527.9 167971

Horizontal Illuminance Levels				
Customer Specification				
Label	CalcType	Units	Avg	Min/Avg
Football Pitch	Illuminance	Lux	200	0.60

Calculation Summary							
Initial Calculations							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Football Pitch	Illuminance	Lux	235	387	152	0.65	0.39

Calculation Summary							
Maintained Calculations							
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Football Pitch	Illuminance	Lux	211	348	136	0.65	0.39

Area Summary		Calculation Grid Intervals	
Label	Total Watts	Label	Grid
Football Pitch	16,333	Football Pitch	11 x 8

Glare Summary		Area Dimensions	
Label	GRmax	Area	L (m) W (m)
Glare Rating	42	Football Pitch	91 55

Isoline Legend

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

Maintenance Factor 0.9

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

Challenger 1 LED AL6100

Challenger 1 LED AL6200

Obtrusive Light - Compliance Report

CIE 150:2017, E3-Medium District Brightness, Pre-Curlew
Filename: LS4071519 Philips High School
17/02/2026 11:24:35

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (37):

Calculation Label	Test Results	Max. Illum.
Park Lane _1_III_Seg1	PASS	0
Park Lane _1_III_Seg2	PASS	0
Park Lane _1_III_Seg3	PASS	0
Park Lane _1_III_Seg4	PASS	0
Park Lane _1_III_Seg5	PASS	0
Park Lane _1_III_Seg6	PASS	0
Park Lane _1_III_Seg7	PASS	0
Park Lane _10_III_Seg1	PASS	0
Park Lane _11_III_Seg1	PASS	0
Park Lane _2_III_Seg1	PASS	0
Park Lane _3_III_Seg1	PASS	0
Park Lane _4_III_Seg1	PASS	0
Park Lane _5_III_Seg1	PASS	0
Park Lane _6_III_Seg1	PASS	1
Park Lane _7_III_Seg2	PASS	0
Park Lane _8_III_Seg1	PASS	1
Park Lane _9_III_Seg1	PASS	1
Park Lane _III_Seg1	PASS	0
Park Lane _III_Seg2	PASS	0
Park Lane _III_Seg3	PASS	0

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 (35):

Calculation Label	Test Results
Park Lane _1_Cd_Seg1	PASS
Park Lane _1_Cd_Seg2	PASS
Park Lane _1_Cd_Seg3	PASS
Park Lane _1_Cd_Seg4	PASS
Park Lane _1_Cd_Seg5	PASS
Park Lane _1_Cd_Seg6	PASS
Park Lane _1_Cd_Seg7	PASS
Park Lane _10_Cd_Seg1	PASS
Park Lane _11_Cd_Seg1	PASS
Park Lane _2_Cd_Seg1	PASS
Park Lane _3_Cd_Seg1	PASS
Park Lane _4_Cd_Seg1	PASS
Park Lane _5_Cd_Seg2	PASS
Park Lane _6_Cd_Seg1	PASS
Park Lane _7_Cd_Seg2	PASS
Park Lane _8_Cd_Seg1	PASS
Park Lane _9_Cd_Seg1	PASS
Park Lane _Cd_Seg1	PASS
Park Lane _Cd_Seg2	PASS
Park Lane _Cd_Seg3	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 CAD File, please check dimensions before ordering and installing.

Initial levels shown on drawing.