LiAS Design Notes

This preliminary design is produced by the Lighting Application Specialist (LiAS) team of Signify UK based on information supplied by the Customer for the purpose of identifying suitable products and costing the proposal. This design cannot be used for Construction, as this design does not purport to eliminate health and safety risks as a CDM Regulation risk assessment has not been undertaken.

Depending on the level of information received, a number of assumptions may have been applied in order to create an indicative lighting proposal and costing model, according to lighting industry guidelines and incorporating industry best practice methods. These assumptions are documented below and will require confirmation by the Principal Designer (which is not Signify UK) during the detailed design phase.

Project Specific Design Comments:

- Preliminary Design proposals produced by the Signify LiAS Team are not to be used for installation purposes. It is the responsibility of the Principal Designer and/or Principal Contractor to ensure all Installation and Maintenance can be done in a safe manner, carried out by competent persons, based on their agreed Risk Assessments and Method Statements.
- The Luminaire Maintenance Factors have been based on 6-year cleaning intervals within an E3/E4 Environmental Zone and it is assumed that lamp/luminaire failures will be replaced on a 'spot replacement'.
- Energy consumptions have been based on the luminaire/s having Constant Light Output (CLO) enabled and the quoted wattage/s are the average over 100,000 hours (without dimming).
- The design calculations produced by Signify do not account for the effect obstructions, such as trees, will cause.
- Signify has not been provided with utility plans showing Buried, Above Ground or Overhead utilities. Therefore, all column/luminaire locations are indicative and are subject to review/verification by the Principal Designer.
- Unless stated otherwise, Signify has not visited site. Therefore, all column/luminaire locations are indicative and are subject to an onsite verification arranged/performed by the Principal Designer.
- Signify has not produced any Private Cable Network electrical calculations or reviewed the DNO network to confirm power supplies to the proposed lighting.
- Signify has not performed any asset condition testing and therefore assumes that any existing lighting columns/wall mounted brackets are structurally capable of supporting the weight & windage of the proposed luminaire/s. This must be verified by the Principal Designer before installation works commence.
- Unless stated otherwise, Signify is not supplying the new lighting columns (including brackets etc) and therefore it is the responsibility of the Principal Designers to confirm that all proposed equipment is suitable for the intended locations (e.g. raise & lower, ground condition, foundation type, saline environment, etc).
- Unless stated otherwise, luminaires will be supplied in their standard colour.

Luminaire Schedule

Luma Gen2 Medium BGP704 80 LED DM10 18KLM NW
lamp(s): LED-HB 5.2S 740
candela file 'Luma Gen2 Medium_BGP704_DM10_18000_80LED_5.2S_CLO_L90_740.ies'
1 lamp(s) per luminaire, 18000 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 99
Outreach (from mounting axis to photometric center)= 500 mm
mounting height= 6 m
number locations= 6, number luminaires= 6

Luma Gen2 Medium BGP704 80 LED DX10 15KLM NW
lamp(s): LED-HB 5.2S 740
candela file 'Luma Gen2 Medium_BGP704_DX10_15000_80LED_5.2S_CLO_L90_740.ies'
1 lamp(s) per luminaire, 15000 initial lumens per lamp
Maintenance Factor = 0.760, watts per luminaire = 82
Outreach (from mounting axis to photometric center)= 500 mm
mounting height= 6 m
number locations= 5, number luminaires= 5

Car Park
564 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX

Average	25.52
Maximum	99.19
Minimum	7.12
Min/Avg(Uo)	0.279
Min/Max	0.072
Coef Var	0.596
UnifGrad	1.63

Drive Thru
290 points at z=0, sp 1.5m by 1.5m
HORIZONTAL LUX

Average	50.52
Maximum	125.86
Minimum	13.81
Min/Avg(Uo)	0.273
Min/Max	0.110
Coef Var	0.520
UnifGrad	1.65

Lighting Proposal Terms and Conditions of Use

These terms apply to the use of this preliminary proposal produced by Signify UK. This "**Proposal**" is understood to mean this document, a CAD drawing, lighting calculations, written documents, verbal conversations or any medium used to demonstrate or communicate the proposed lighting scheme using products from Signify's brands. A "**Customer**" is the person or organisation for whom the Proposal is intended. The "**CDM Regulations**" means The Construction, Design and Management Regulations 2015, the Safety, Health & Welfare at Work Act 2005, The Construction (Design & Management) Regulations (Northern Ireland) 2015.

This Proposal is for guidance only and cannot be relied upon for purposes of installation or Health and Safety.

The supply and installation of this lighting scheme are subject to a contract being agreed between Customer and Signify.

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-465054	INITIAL PROPOSAL	24.06.22	CP	EH

Project Number
O-1640078

Scale & Sheet Size
NTS @ A3

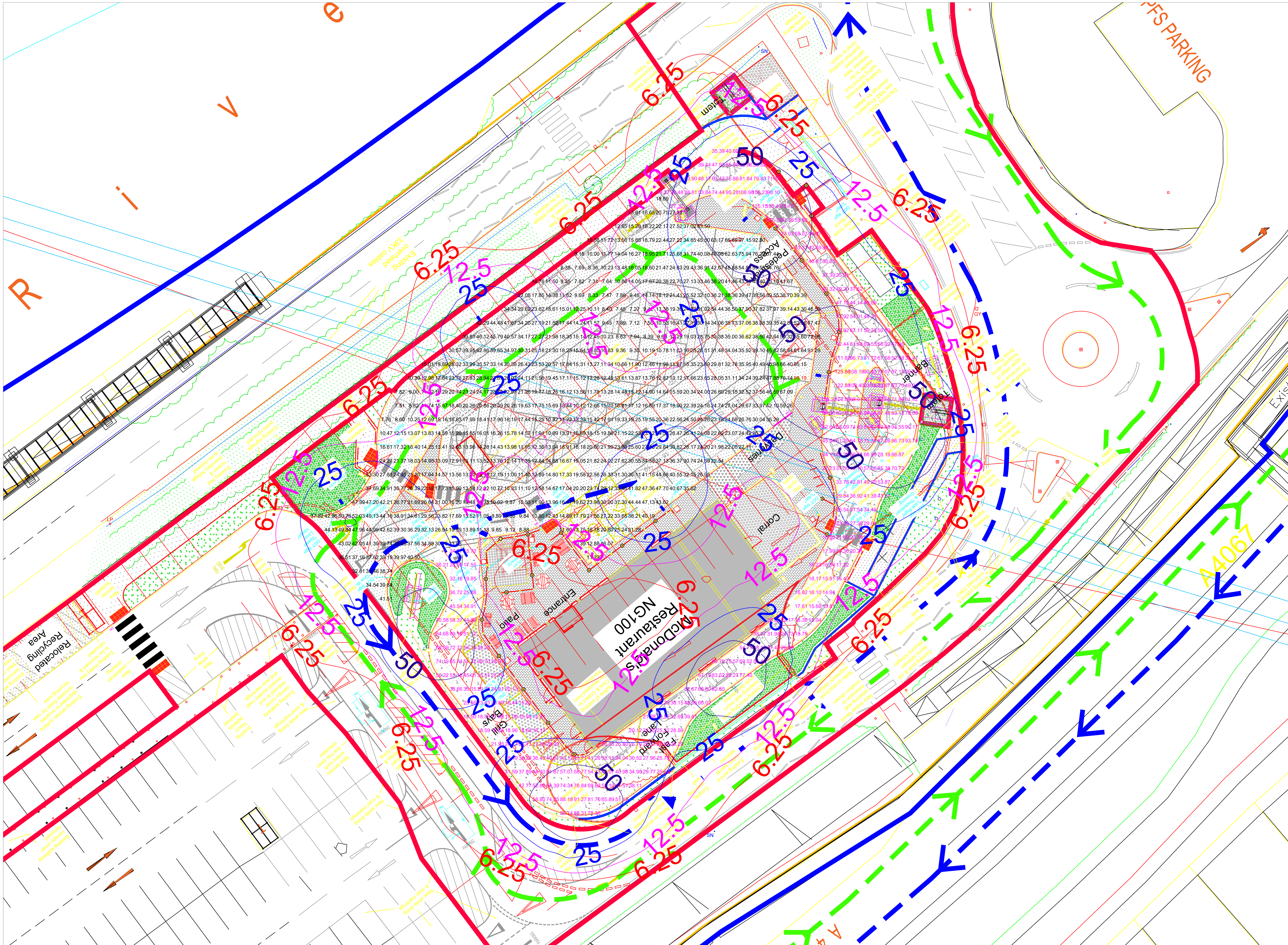
Sheet No
DWG 00

Project Name
MCDONALDS TESCO, PONTARDAWE

Drawing Name
LiAS DESIGN NOTES & LUMINAIRE SCHEDULE

Signify
PHILIPS interact PHILIPS hue
LIGHT COLORKINETICS

Superseded



Luma Gen2 Medium BGP704 80 LED DM10 18KLM NW
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Signify — PHILIPS — interact — PHILIPS hue — LIGHT — COLOR KINETICS

Notes:

1) Unless agreed otherwise, the lighting proposal produced by the Lighting Application Specialist (LiAS) team of Signify UK&I is not intended for construction purposes, as it does not take into account the elimination of health and safety risks at this stage. For further details please refer to sheet number **DWG 00**

2) Do not scale for this drawing

PROPOSAL
(NOT FOR CONSTRUCTION)

Rev	DSR no.	Comment	Date	LiAS	KAM
0	D-465054	INITIAL PROPOSAL	24.06.22	CP	EH

Project Number: O-1640078
Scale & Sheet Size: 1:200 @ A1
Sheet No: DWG 01
Project Name: MCDONALDS TESCO, PONTARDAWE
Drawing Name: PROPOSED LIGHTING LAYOUT

Superseded