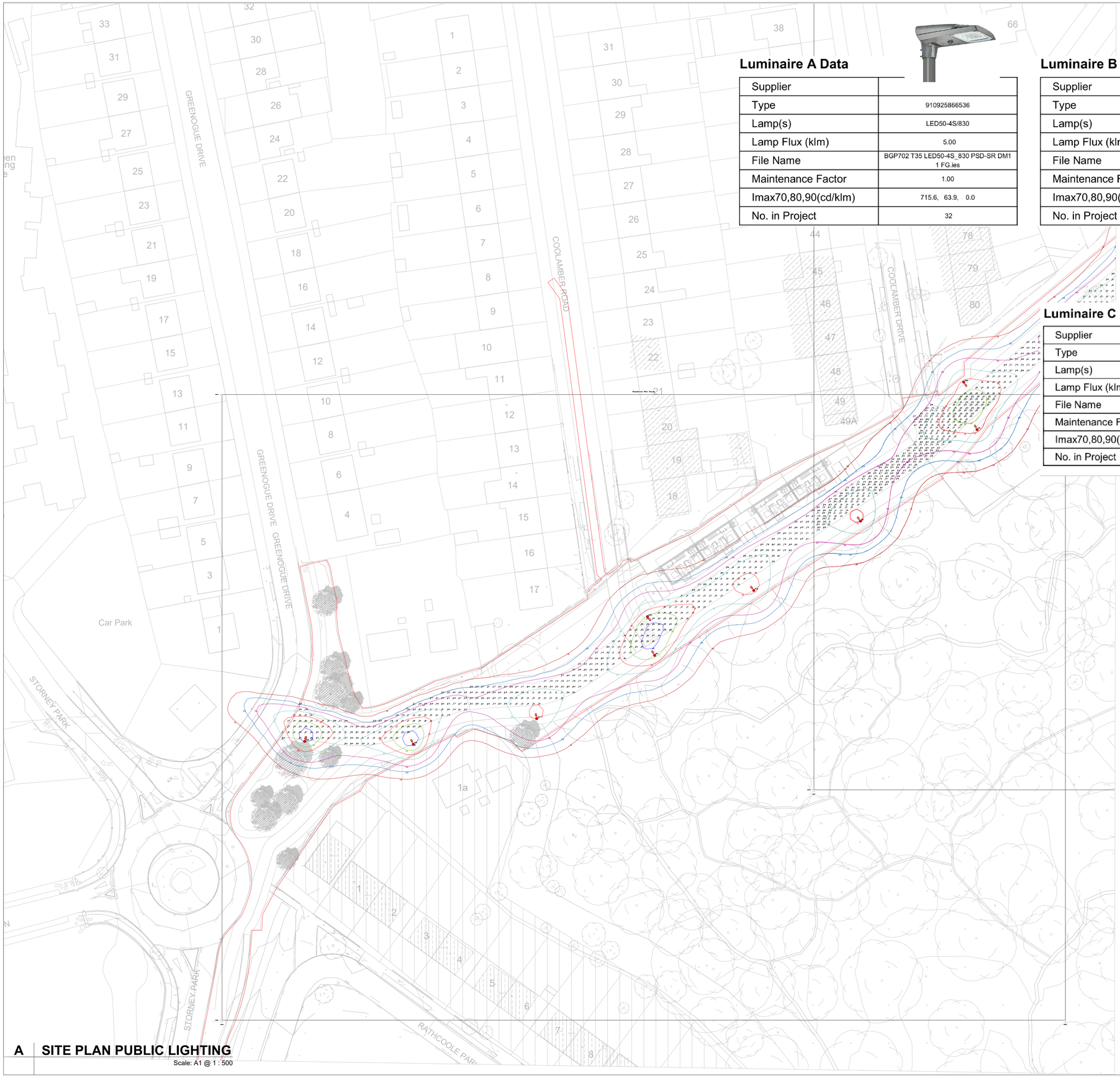
Project Management Initials: Designer: PK Checked: KF Approved: RR ISO A1 594mm x 841mm

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Luminaire A Data

Supplier	
Type	910925866536
Lamp(s)	LED50-4S/830
Lamp Flux (klm)	5.00
File Name	BGP702 T35 LED50-4S_830 PSD-SR DM1 1 FG.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	715.6, 63.9, 0.0
No. in Project	32

Luminaire B Data



Supplier	
Type	BGP281N-7c0d776f-3d53-4f7a-a555-7fcf41e861bf
Lamp(s)	LED35-CLO-4S/730
Lamp Flux (klm)	3.43
File Name	BGP291-LED35-4S-730-DX50-FG-AR-CLO_IES-file (1).ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	530.7, 56.1, 0.0
No. in Project	8

Luminaire C Data



Supplier	
Type	BDS300I-b9de8304-2cd4-4956-ad55-8f80678d8bc0
Lamp(s)	LED27-CLO-1P/727
Lamp Flux (klm)	2.63
File Name	BDS300-LED27-1P-727-PSA-DM16P-PL1-D13_IES-file.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	419.0, 10.5, 0.0
No. in Project	18

A SITE PLAN PUBLIC LIGHTING

Scale: A1 @ 1 : 500

AECOM

Project

SDCC RATHCOOLE

Client

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Consultant

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Issue/Revision

Rev	Date	Description
P03	20261007	Part 10 Submission
P02	20260828	Issued For Information
P01	20260817	Issued For Information

Key Plan

Suitability Status

Part 10 Submission

Project Number

60765651

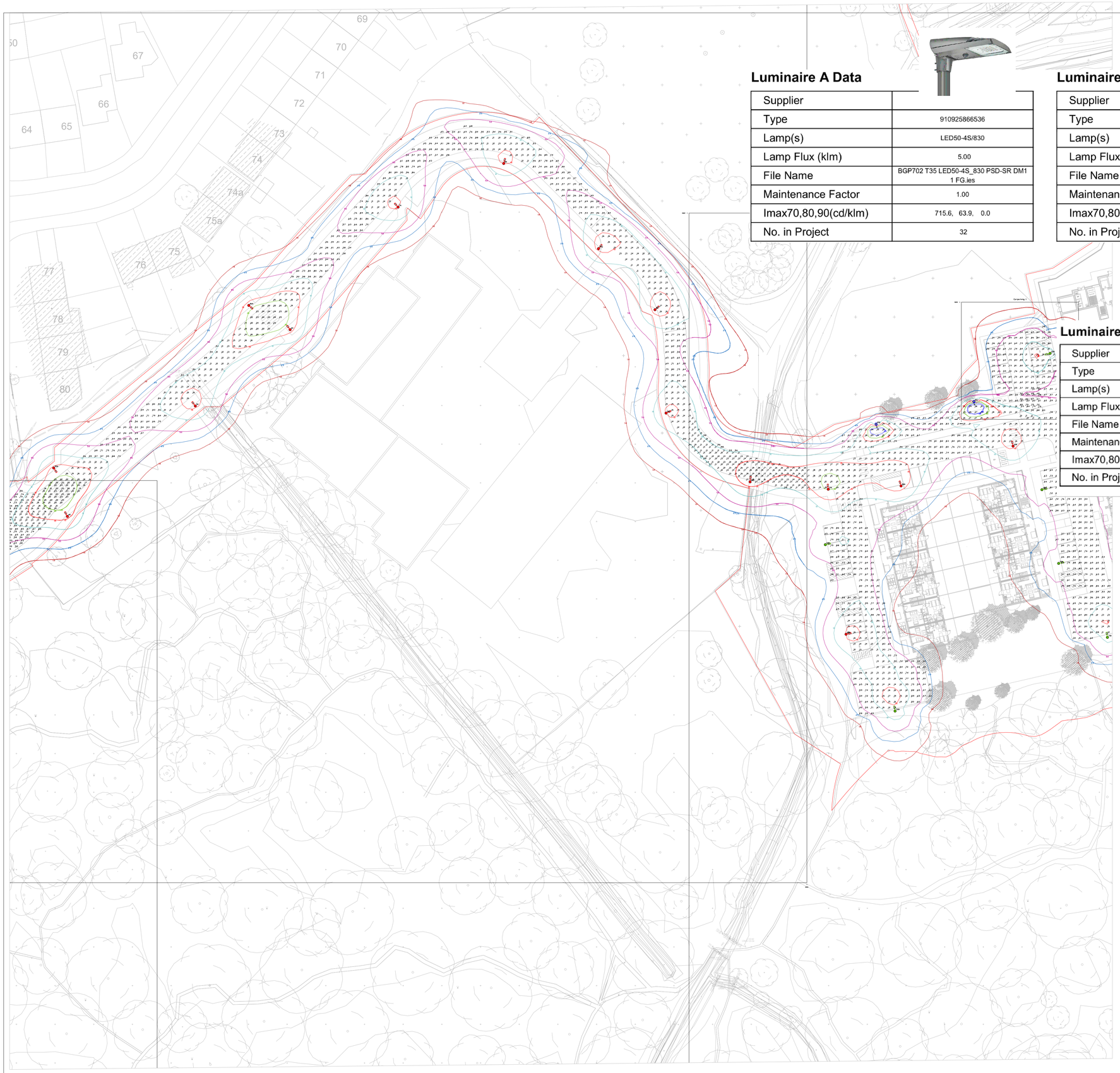
Sheet Title

SITE PLAN
SITE LIGHTING LAYOUT
SHEET 1 OF 3

Sheet Number

60765651-ACM-ZZ-ZZ-DR-EL-021001

Scale: A1 @ 1 : 500 **Rev:** P03



Luminaire A Data

Supplier	
Type	910925866536
Lamp(s)	LED50-4S/830
Lamp Flux (klm)	5.00
File Name	BGP702 T35 LED50-4S_830 PSD-SR DM1 1 FG.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	715.6, 63.9, 0.0
No. in Project	32

Luminaire B Data



Supplier	
Type	BGP281N-7c0d776f-3d53-4f7a-a555-7fcf41e861bf
Lamp(s)	LED35-CLO-4S/730
Lamp Flux (klm)	3.43
File Name	BGP291-LED35-4S-730-DX50-FG-AR-CLO_IES-file (1).ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	530.7, 56.1, 0.0
No. in Project	8

Luminaire C Data



Supplier	
Type	BDS300I-b9de8304-2cd4-4956-ad55-8f80678d8bc0
Lamp(s)	LED27-CLO-1P/727
Lamp Flux (klm)	2.63
File Name	BDS300-LED27-1P-727-PSA-DM16P-PL1-D13_IES-file.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	419.0, 10.5, 0.0
No. in Project	18

Residential Main Roads
Results - Horizontal Illuminance (lux)
Eav= 11.67
Emin= 2.14
Emax= 27.66
Emin/Emax= 0.08
Emin/Eav= 0.18
Emax/Eav= 2.37

School area - Future Planning
Results - Horizontal Illuminance (lux)
Eav= 10.79
Emin= 2.85
Emax= 24.35
Emin/Emax= 0.12
Emin/Eav= 0.26
Emax/Eav= 2.26

Residential Main Roads
Results - Horizontal Illuminance (lux)
Eav= 10.35
Emin= 2.04
Emax= 43.57
Emin/Emax= 0.05
Emin/Eav= 0.20
Emax/Eav= 4.21

Carparking 1
Results - Horizontal Illuminance (lux)
Eav= 7.29
Emin= 2.52
Emax= 15.79
Emin/Emax= 0.16
Emin/Eav= 0.35
Emax/Eav= 2.16

Carparking 2
Results - Horizontal Illuminance (lux)
Eav= 9.20
Emin= 2.47
Emax= 18.84
Emin/Emax= 0.13
Emin/Eav= 0.27
Emax/Eav= 2.05

Carparking 3
Results - Horizontal Illuminance (lux)
Eav= 8.59
Emin= 3.69
Emax= 16.83
Emin/Emax= 0.22
Emin/Eav= 0.43
Emax/Eav= 1.96

Carparking 4
Results - Horizontal Illuminance (lux)
Eav= 7.67
Emin= 2.10
Emax= 15.62
Emin/Emax= 0.13
Emin/Eav= 0.27
Emax/Eav= 2.04

Carparking 5
Results - Horizontal Illuminance (lux)
Eav= 10.75
Emin= 2.14
Emax= 36.82
Emin/Emax= 0.06
Emin/Eav= 0.20
Emax/Eav= 3.43

Luminaire Data
Luminaire A 910925866536 Lamp LED50-4S/830 MF 1.00
Luminaire B BGP281N Lamp LED35-CLO-4S/730 MF 1.00
Luminaire C BDS300I Lamp LED27-CLO-1P/727 MF 1.00

Key
- Luminaire A Column
- Luminaire B Column
- Luminaire C Column
- Beam Aiming Target
- Photometric Centre

Project Management Initials: Designer: PK Checked: KF Approved: RR ISO A1 594mm x 841mm

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AECOM

Project

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Issue/Revision

Rev	Date	Description
P03	20261007	Part 10 Submission
P02	20260828	Issued For Information
P01	20260817	Issued For Information

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

SITE PLAN
SITE LIGHTING LAYOUT
SHEET 2 OF 3

Sheet Number

RATH-ACM-ZZ-ZZ-DR-EL-021002

Scale: A1 @ 1 : 500 **Rev:** P03

ISO A1 594mm x 841mm
Approved: RR
Checked: KF
Designer: PK
Project Management Initials:



Luminaire A Data

Supplier	
Type	910925866536
Lamp(s)	LED50-4S/830
Lamp Flux (klm)	5.00
File Name	BGP702 T35 LED50-4S_830 PSD-SR DM1 1 FG.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	715.6, 63.9, 0.0
No. in Project	32

Luminaire B Data



Supplier	
Type	BGP281N-7c0d776f-3d53-4f7a-a555-7fcf41e861bf
Lamp(s)	LED35-CLO-4S/730
Lamp Flux (klm)	3.43
File Name	BGP291-LED35-4S-730-DX50-FG-AR-CLO_IES-file (1).ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	530.7, 56.1, 0.0
No. in Project	8

Luminaire C Data



Supplier	
Type	BDS300l-b9de8304-2cd4-4956-ad55-8f80678d8bc0
Lamp(s)	LED27-CLO-1P/727
Lamp Flux (klm)	2.63
File Name	BDS300-LED27-1P-727-PSA-DM16P-PL1-D13_IES-file.ies
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	419.0, 10.5, 0.0
No. in Project	18

Residential Main Roads
Results - Horizontal Illuminance (lux)
Eav= 11.67
Emin= 2.14
Emax= 27.66
Emin/Emax= 0.08
Emin/Eav= 0.18
Emax/Eav= 2.37

School area - Future Planning
Results - Horizontal Illuminance (lux)
Eav= 10.79
Emin= 2.85
Emax= 24.35
Emin/Emax= 0.12
Emin/Eav= 0.26
Emax/Eav= 2.26

Residential Main Roads
Results - Horizontal Illuminance (lux)
Eav= 10.35
Emin= 2.04
Emax= 43.57
Emin/Emax= 0.05
Emin/Eav= 0.20
Emax/Eav= 4.21

Carparking 1
Results - Horizontal Illuminance (lux)
Eav= 7.29
Emin= 2.52
Emax= 15.79
Emin/Emax= 0.16
Emin/Eav= 0.35
Emax/Eav= 2.16

Carparking 2
Results - Horizontal Illuminance (lux)
Eav= 9.20
Emin= 2.47
Emax= 18.84
Emin/Emax= 0.13
Emin/Eav= 0.27
Emax/Eav= 2.05

Carparking 3
Results - Horizontal Illuminance (lux)
Eav= 8.59
Emin= 3.69
Emax= 16.83
Emin/Emax= 0.22
Emin/Eav= 0.43
Emax/Eav= 1.96

Carparking 4
Results - Horizontal Illuminance (lux)
Eav= 7.67
Emin= 2.10
Emax= 15.62
Emin/Emax= 0.13
Emin/Eav= 0.27
Emax/Eav= 2.04

Carparking 5
Results - Horizontal Illuminance (lux)
Eav= 10.75
Emin= 2.14
Emax= 36.82
Emin/Emax= 0.06
Emin/Eav= 0.20
Emax/Eav= 3.43

Luminaire Data
Luminaire A 910925866536 Lamp LED50-4S/830 MF 1.00
Luminaire B BGP281N Lamp LED35-CLO-4S/730 MF 1.00
Luminaire C BDS300l Lamp LED27-CLO-1P/727 MF 1.00

Key
- Luminaire A Column
- Luminaire B Column
- Luminaire C Column
- Beam Aiming Target
- Photometric Centre

A SITE PLAN PUBLIC LIGHTING

Scale: A1 @ 1 : 500

AECOM

Project

SDCC RATHCOOLE

Client

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Issue/Revision

Rev	Date	Description
P03	20261007	Part 10 Submission
P02	20260828	Issued For Information
P01	20260817	Issued For Information

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

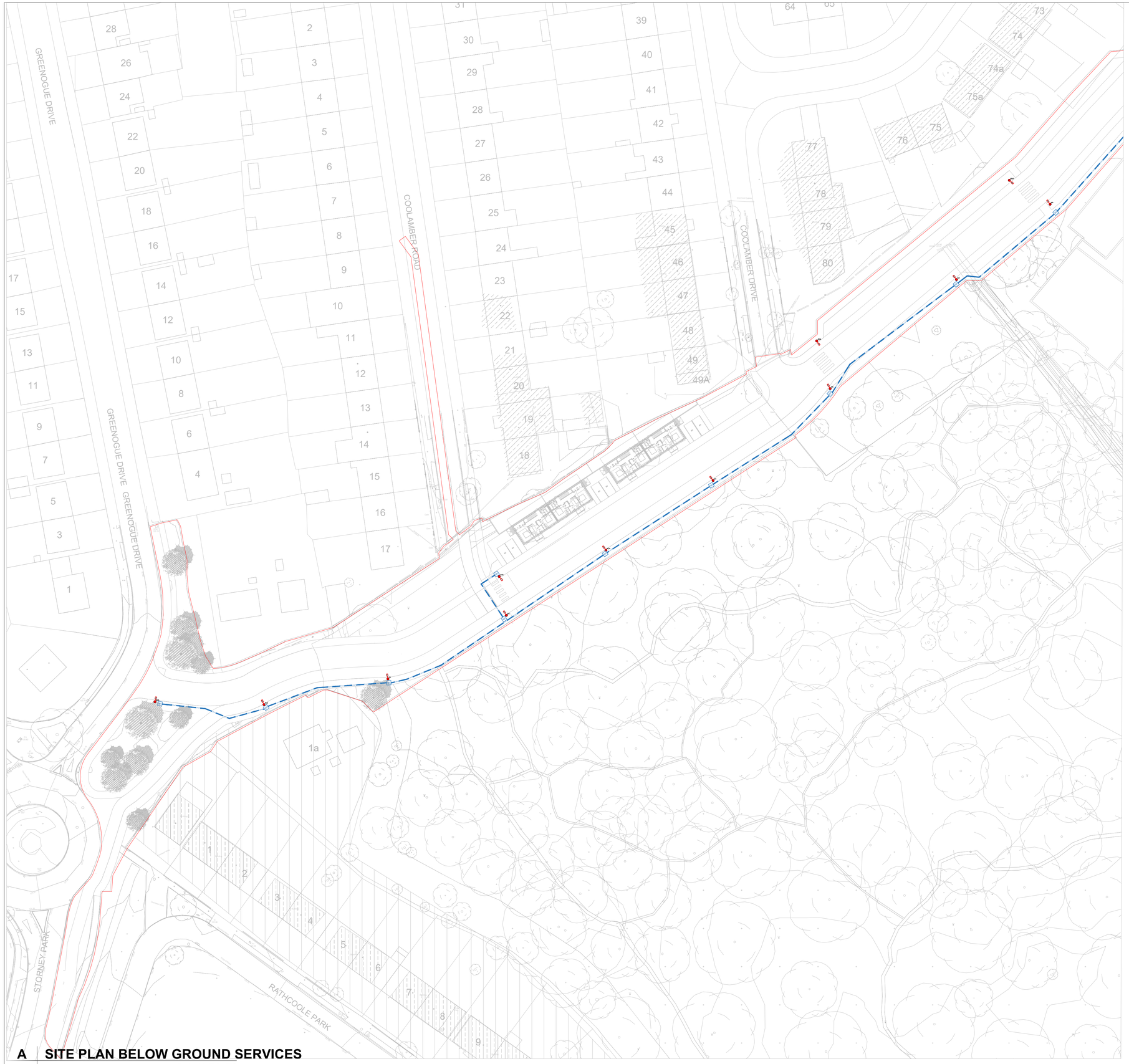
SITE PLAN
SITE LIGHTING LAYOUT
SHEET 3 OF 3

Sheet Number

RATH-ACM-ZZ-ZZ-DR-EL-021003

Scale: A1 @ 1 : 500 **Rev:** P03

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A **SITE PLAN BELOW GROUND SERVICES**

Scale: A1 @ 1 : 500

LEGEND

- 1x110mm PUBLIC LIGHTING DUCTING
- ESB 125mm LV CABLING (TO MINIPILLARS)
- ESB 50mm LV SERVICE DUCT (TO DWELLINGS)
- ESB 125mm LV CABLING (TO METER ROOMS)
- ESB 125mm MV DUCTING (TO SUBSTATION)
- SHARED TELECOM INFRASTRUCTURE 4 x 110mm DUCTING 1NR EIR, 1NR VM, 1NR SIRO & 1NR SPARE
- SHARED TELECOM INFRASTRUCTURE 1 x 63mm DUCT (TO DWELLING)
- 125mm EVC DUCTING
- 100mm CCTV DUCTING

- MH — SHARED TELECOM INFRASTRUCTURE MANHOLE - JB4 1110x1090mm
- MH — PUBLIC LIGHTING MANHOLE - JB1 385x260mm
- LP — PUBLIC LIGHTING MICRO-PILLAR (UN-METERED)
- MH — CCTV MANHOLE - 600x600mm
- FP — EVC FEEDER PILLAR
- MH — EVC MANHOLE - 600x600mm
- MH — LV MANHOLE - 1000x800mm
- LV EARTH PIT
- METER — ESB METER CABINET (DWELLING)
- ESB VAULT / EMP — ESB MINIPILLAR & CABLE VAULT
- EVC — ELECTRIC VEHICLE CHARGER
- EVC (FUTURE) — ELECTRIC VEHICLE CHARGER (CABLE DUCTS ONLY)



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Issue/Revision

Rev	Date	Description
P01	20261007	Part 10 Submission

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

SITE PLAN
SITE SERVICES LAYOUT
SHEET 1 OF 4

Sheet Number

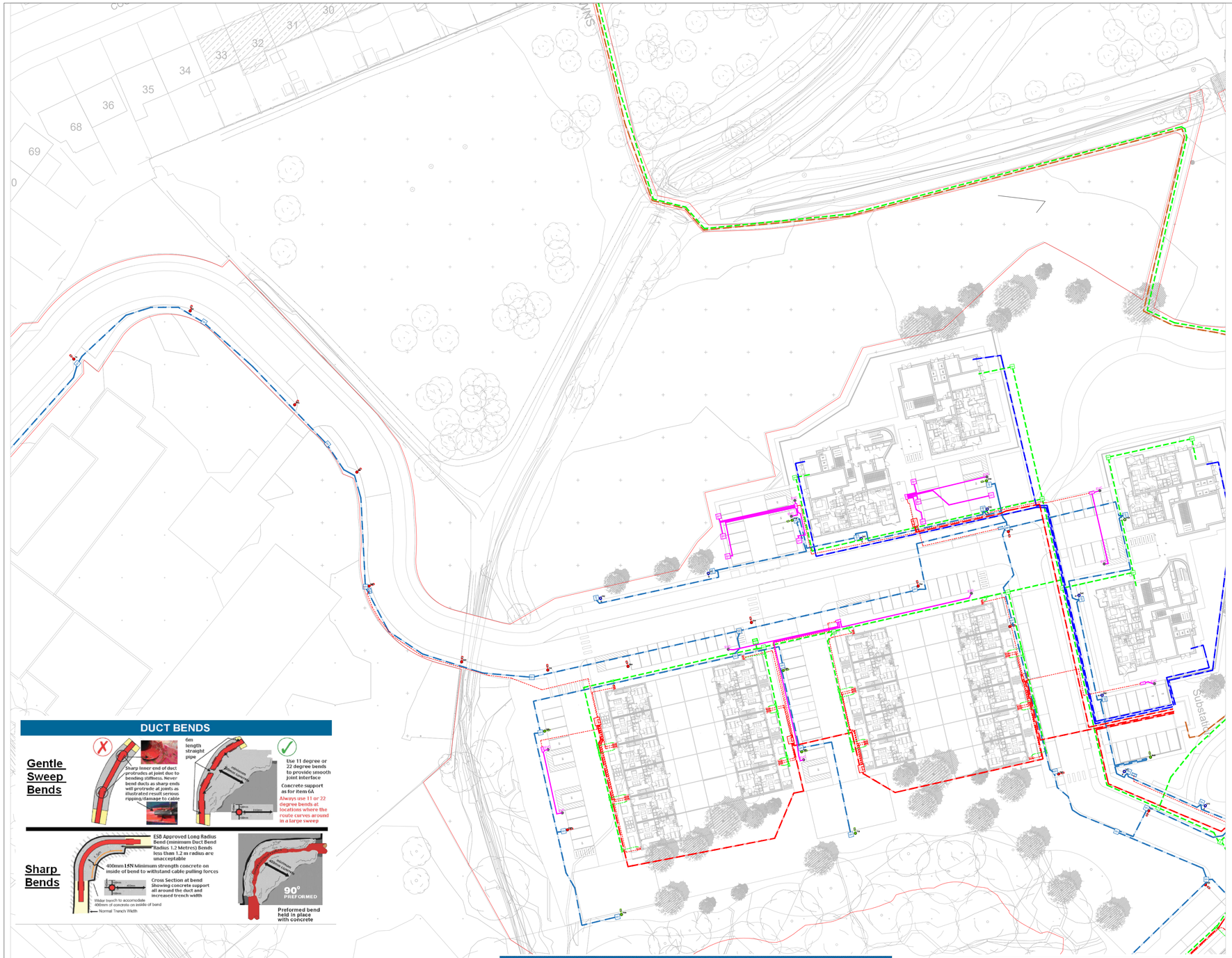
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Scale: A1 @ 1 : 500 **Rev:** P01

Project Management Initials: Designer: PK Checked: KF Approved: RR ISO A1 594mm x 841mm

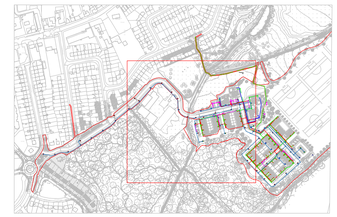
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Project Management Initials: Designer: PK Checked: KF Approved: RR ISO A1 594mm x 841mm



LEGEND

- 1x110mm PUBLIC LIGHTING DUCTING
- ESB 125mm LV CABLING (TO MINIPILLARS)
- ESB 50mm LV SERVICE DUCT (TO DWELLINGS)
- ESB 125mm LV CABLING (TO METER ROOMS)
- ESB 125mm MV DUCTING (TO SUBSTATION)
- SHARED TELECOM INFRASTRUCTURE 4 x 110mm DUCTING 1NR EIR, 1NR VM, 1NR SIRO & 1NR SPARE
- SHARED TELECOM INFRASTRUCTURE 1 x 63mm DUCT (TO DWELLING)
- 125mm EVC DUCTING
- 100mm CCTV DUCTING
- MH — SHARED TELECOM INFRASTRUCTURE MANHOLE - JB4 1110x1090mm
- MH — PUBLIC LIGHTING MANHOLE - JB1 385x260mm
- LP — PUBLIC LIGHTING MICRO-PILLAR (UN-METERED)
- MH — CCTV MANHOLE - 600x600mm
- FP — EVC FEEDER PILLAR
- MH — EVC MANHOLE - 600x600mm
- MH — LV MANHOLE - 1000x800mm
- LV EARTH PIT
- METER — ESB METER CABINET (DWELLING)
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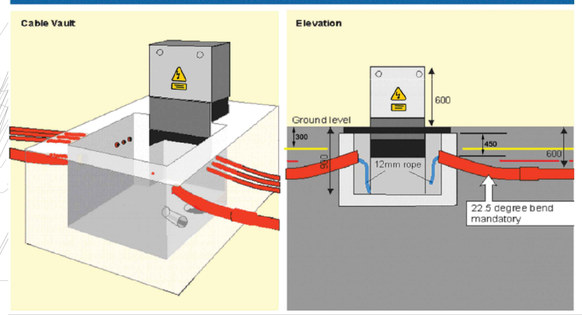


DUCT BENDS

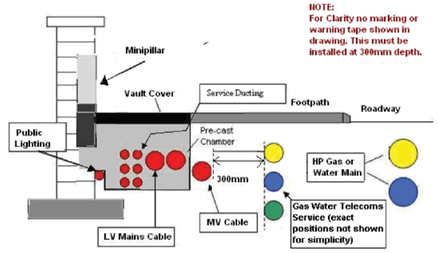
Gentle Sweep Bends

Sharp Bends

MINIPILLAR VAULTS

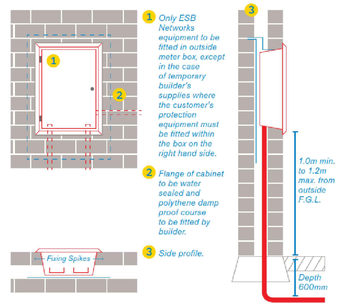


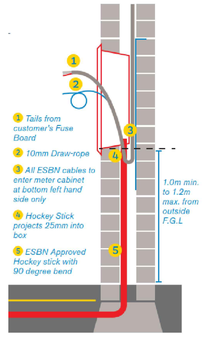
Position and Spacing of ESB Networks Ducting in relation to other Utility Ducts and Pipes in Housing Schemes/Developments



Normal standard clearance = 300mm. Clearance from High Pressure pipes = 600mm

INSTALLATION





A SITE PLAN BELOW GROUND SERVICES

Scale: A1 @ 1 : 500

AECOM

Project

SDCC RATHCOOLE

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Issue/Revision

Rev	Date	Description
P01	20261007	Part 10 Submission

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

SITE PLAN
SITE SERVICES LAYOUT
SHEET 2 OF 4

Sheet Number

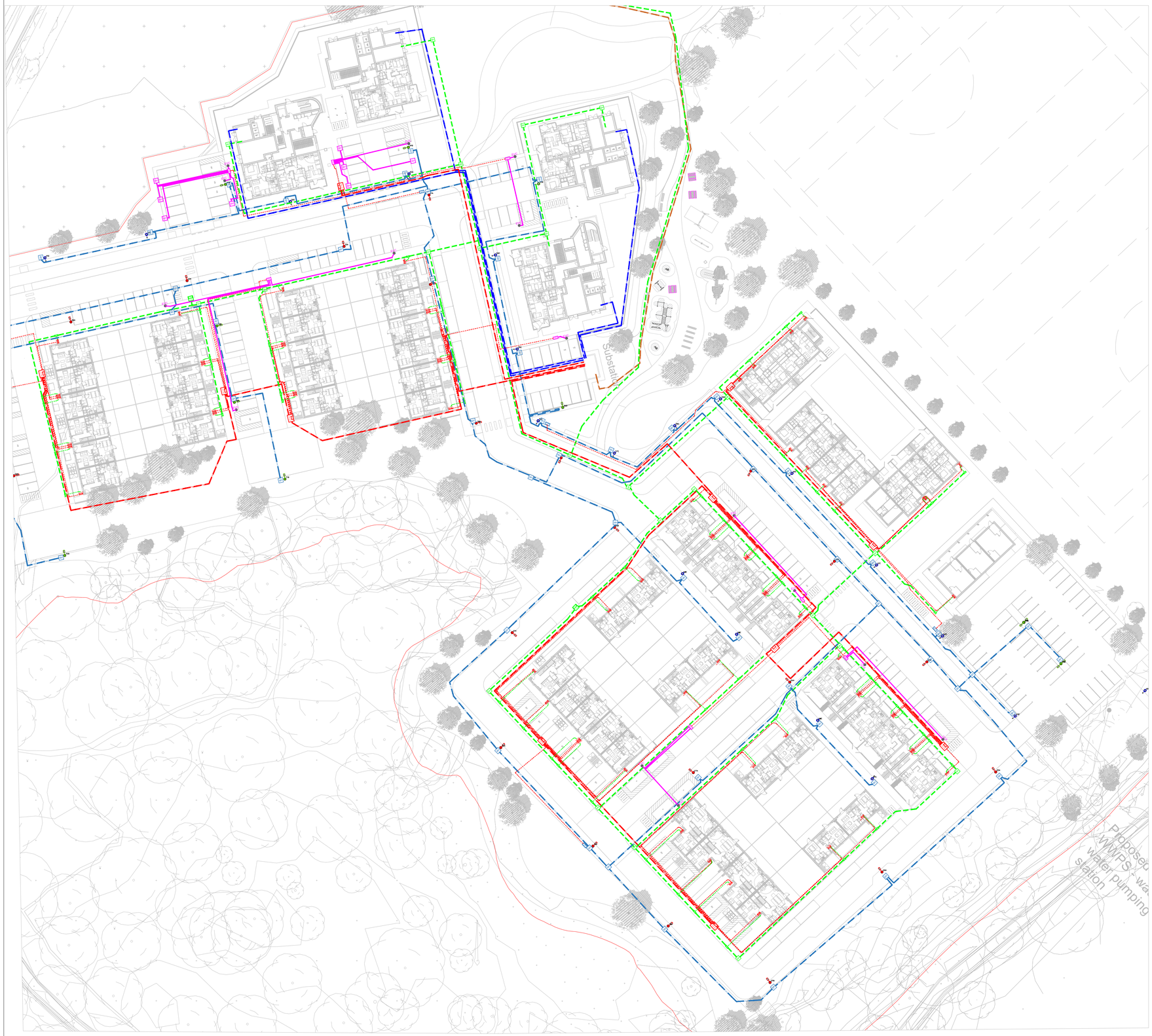
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Scale: A1 @ 1 : 500 **Rev:** P01

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ISO A1 594mm x 841mm

Project Management Initials: Designer: PK Checked: KF Approved: RR



LEGEND

- 1x110mm PUBLIC LIGHTING DUCTING
- ESB 125mm LV CABLING (TO MINIPILLARS)
- ESB 50mm LV SERVICE DUCT (TO DWELLINGS)
- ESB 125mm LV CABLING (TO METER ROOMS)
- ESB 125mm MV DUCTING (TO SUBSTATION)
- SHARED TELECOM INFRASTRUCTURE 4 x 110mm DUCTING 1NR EIR, 1NR VIA, 1NR SIRO & 1NR SPARE
- SHARED TELECOM INFRASTRUCTURE 1 x 63mm DUCT (TO DWELLING)
- 125mm EVC DUCTING
- 100mm CCTV DUCTING
- MH — SHARED TELECOM INFRASTRUCTURE MANHOLE - JB4 1110x1090mm
- MH — PUBLIC LIGHTING MANHOLE - JB1 385x260mm
- LP — PUBLIC LIGHTING MICRO-PILLAR (UN-METERED)
- MH — CCTV MANHOLE - 600x600mm
- EP — EVC FEEDER PILLAR
- MH — EVC MANHOLE - 600x600mm
- MH — LV MANHOLE - 1000x800mm
- LV EARTH PIT
- METER — ESB METER CABINET (DWELLING)
- ESB VAULT / EMP — ESB MINIPILLAR & CABLE VAULT
- EVC — ELECTRIC VEHICLE CHARGER
- EVC (FUTURE) — ELECTRIC VEHICLE CHARGER (CABLE DUCTS ONLY)



A SITE PLAN BELOW GROUND SERVICES

Scale: A1 @ 1 : 500

AECOM

Project

SDCC RATHCOOLE

Client

SOUTH DUBLIN COUNTY COUNCIL

Consultant

AECOM
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Notes

1. THIS DRAWING IS TO BE READ IN CONJUCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS, ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF THE DESIGNER.
2. DO NOT SCALE, ALL MEASUREMENTS AND COORDINATES TO BE CHECKED ON SITE.
3. NOTE THAT CABLING TO BE USED FOR PUBLIC LIGHTING 2 x 6mmsq XLPE/SWA/PVC + INTEGRAL EARTH.
4. DUCTING SHALL COMPLY WITH LATEST VERSION OF IS EN 61386-1-21-22-23-24 AND SHALL BE SINGLE WALL, COLOURED RED AND MANUFACTURED FROM HIGH-DENSITY POLYETHYLENE. THE NOMINAL EXTERNAL DIAMETER OF THE DUCT SHALL BE 107 MM WITH A MINIMAL WALL THICKNESS OF 5 MM. EACH LENGTH OF DUCT SHALL BE STAMPED WITH THE WORDS "PUBLIC LIGHTING" OR "STREET LIGHTING", IN 18 MM BLACK LETTERING REPEATED AT 1-METRE INTERVALS. DUCTS SHALL BE LAID WITH THIS LEGEND FACING UPWARDS.

Issue/Revision

Rev	Date	Description
P01	20261007	Part 10 Submission

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

SITE PLAN
SITE SERVICES LAYOUT
SHEET 3 OF 4

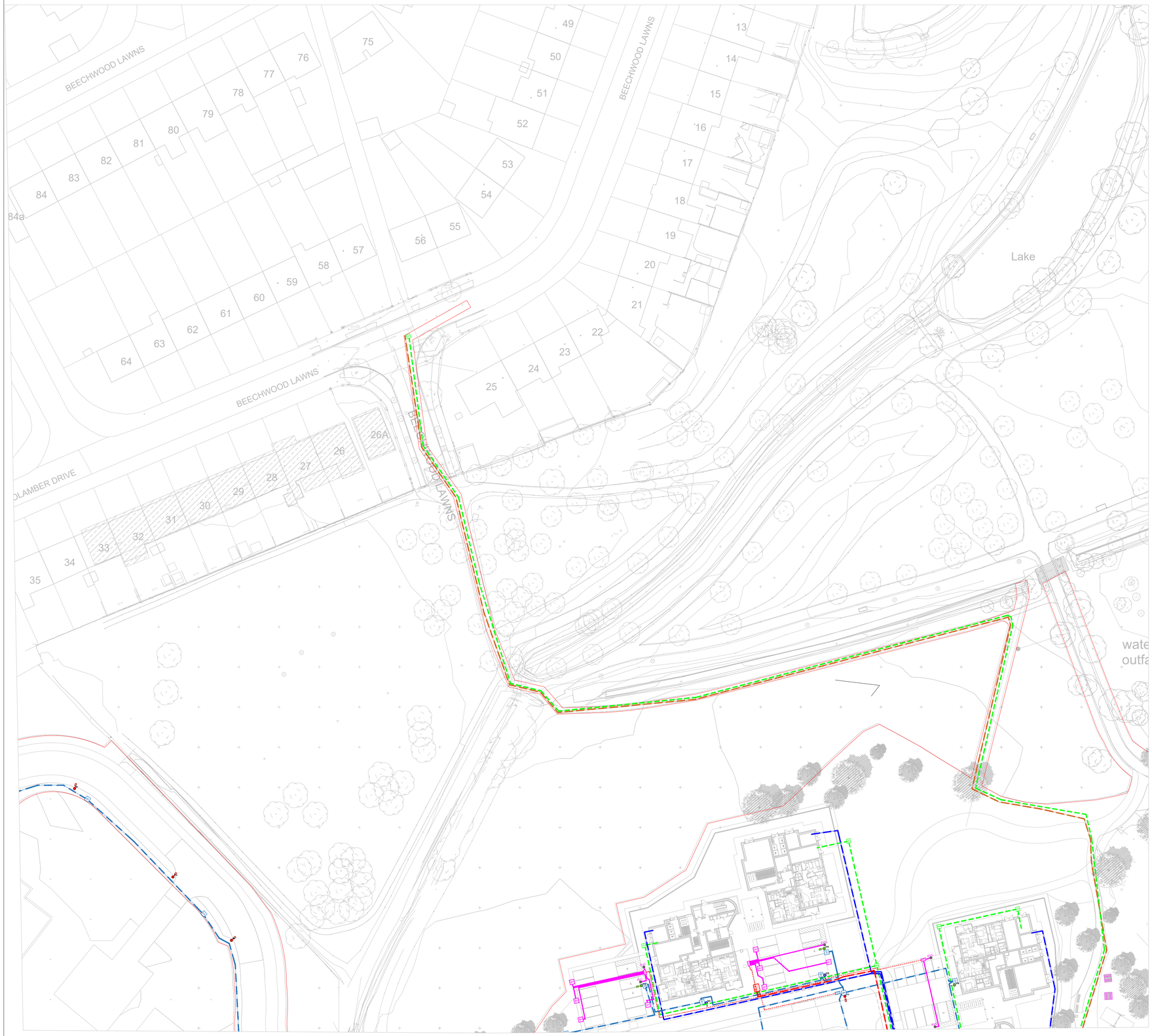
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Project Management Initials: Designer: PK Checked: KF Approved: RR ISO A1 594mm x 841mm



LEGEND

- 1x110mm PUBLIC LIGHTING DUCTING
- ESB 125mm LV CABLING (TO MINIPILLARS)
- ESB 50mm LV SERVICE DUCT (TO DWELLINGS)
- ESB 125mm LV CABLING (TO METER ROOMS)
- ESB 125mm MV DUCTING (TO SUBSTATION)
- SHARED TELECOM INFRASTRUCTURE 4 x 110mm DUCTING 1NR EIR, 1NR VIA, 1NR SIRO & 1NR SPARE
- SHARED TELECOM INFRASTRUCTURE 1 x 63mm DUCT (TO DWELLING)
- 125mm EVC DUCTING
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- MH — SHARED TELECOM INFRASTRUCTURE MANHOLE - JB4 1110x1090mm
- MH — PUBLIC LIGHTING MANHOLE - JB1 385x260mm
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- MH — CCTV MANHOLE - 600x600mm
- EP — EVC FEEDER PILLAR
- MH — EVC MANHOLE - 600x600mm
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- LV EARTH PIT
- METER — ESB METER CABINET (DWELLING)
- ESB VAULT / EMP — ESB MINIPILLAR & CABLE VAULT
- EVC — ELECTRIC VEHICLE CHARGER
- EVC (FUTURE) — ELECTRIC VEHICLE CHARGER (CABLE DUCTS ONLY)



A SITE PLAN BELOW GROUND SERVICES

Scale: A1 @ 1 : 500

AECOM

Project

SDCC RATHCOOLE

Client

SOUTH DUBLIN COUNTY COUNCIL

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Issue/Revision

Rev	Date	Description
P01	20261007	Part 10 Submission

Key Plan

Suitability Status

PART 10 SUBMISSION

Project Number

60765651

Sheet Title

SITE PLAN
SITE SERVICES LAYOUT
SHEET 4 OF 4

Sheet Number

RATH-ACM-ZZ-ZZ-DR-EL-021007

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