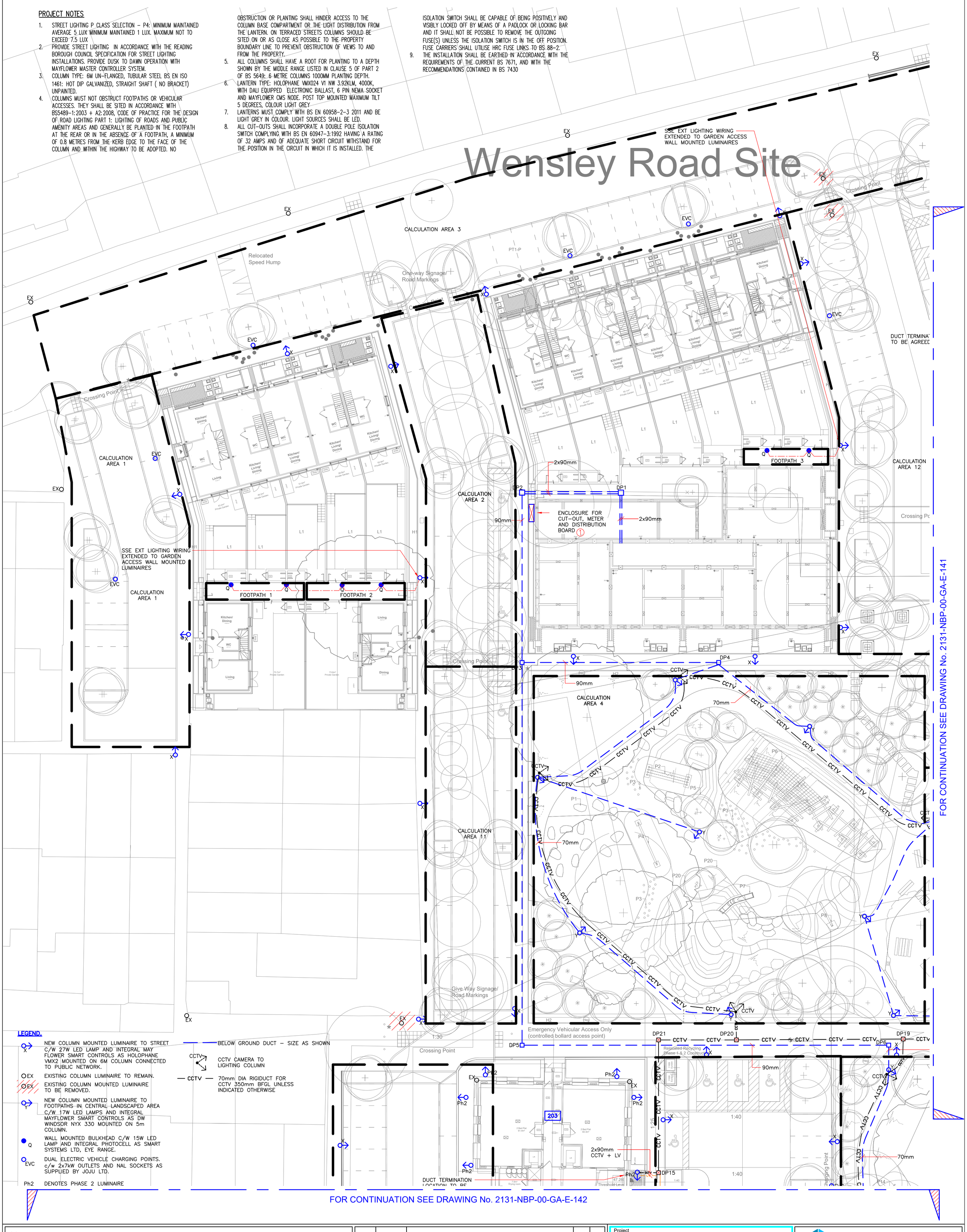
COMPANY OF ORIGIN		ARCHITECTS DRAWING No.	
???		?? NO TITLE SHEET	
ORIGINAL FILE NAME	M43794-ARC-XX-XX-M2-A-9000_A-Site Layout-220922		
ORIGINAL DRAWING TITLE		REV.	DATE RECEIVED
SITE LAYOUT		??	22-09-22

PROJECT NOTES

1. STREET LIGHTING P CLASS SELECTION – P4: MINIMUM MAINTAINED AVERAGE 5 LUX MINIMUM MAINTAINED 1 LUX. MAXIMUM NOT TO EXCEED 7.5 LUX
2. PROVIDE STREET LIGHTING IN ACCORDANCE WITH THE READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING INSTALLATIONS. PROVIDE DUSK TO DAWN OPERATION WITH MAYFLOWER MASTER CONTROLLER SYSTEM.
3. COLUMN TYPE: 6M UN-FLANGED, TUBULAR STEEL BS EN ISO 1461: HOT DIP GALVANIZED, STRAIGHT SHAFT (NO BRACKET) UNPAINTED.
4. COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESSES. THEY SHALL BE SITED IN ACCORDANCE WITH BS5489-1:2003 + A2:2008, CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING PART 1: LIGHTING OF ROADS AND PUBLIC AMENITY AREAS AND GENERALLY BE PLANTED IN THE FOOTPATH AT THE REAR OR IN THE ABSENCE OF A FOOTPATH, A MINIMUM OF 0.8 METRES FROM THE KERB EDGE TO THE FACE OF THE COLUMN AND WITHIN THE HIGHWAY TO BE ADOPTED. NO OBSTRUCTION OR PLANTING SHALL HINDER ACCESS TO THE COLUMN BASE COMPARTMENT OR THE LIGHT DISTRIBUTION FROM THE LANTERN. ON TERRACED STREETS COLUMNS SHOULD BE SITED ON OR AS CLOSE AS POSSIBLE TO THE PROPERTY BOUNDARY LINE TO PREVENT OBSTRUCTION OF VIEWS TO AND FROM THE PROPERTY.
5. ALL COLUMNS SHALL HAVE A ROOT FOR PLANTING TO A DEPTH SHOWN BY THE MIDDLE RANGE LISTED IN CLAUSE 5 OF PART 2 OF BS 5649: 6 METRE COLUMNS 1000MM PLANTING DEPTH.
6. LANTERN TYPE: HOLOPHANE VMX024 V1 NW 3.92KLM, 4000K, WITH DALI EQUIPPED ELECTRONIC BALLAST, 6 PIN NEMA SOCKET AND MAYFLOWER CMS NODE. POST TOP MOUNTED MAXIMUM TILT 5 DEGREES, COLOUR LIGHT GREY
7. LANTERNS MUST COMPLY WITH BS EN 60958-2-3 2011 AND BE LIGHT GREY IN COLOUR. LIGHT SOURCES SHALL BE LED.
8. ALL CUT-OUTS SHALL INCORPORATE A DOUBLE POLE ISOLATION SWITCH COMPLYING WITH BS EN 60947-3:1992 HAVING A RATING OF 32 AMPS AND OF ADEQUATE SHORT CIRCUIT WITHSTAND FOR THE POSITION IN THE CIRCUIT IN WHICH IT IS INSTALLED. THE ISOLATION SWITCH SHALL BE CAPABLE OF BEING POSITIVELY AND VISIBLY LOCKED OFF BY MEANS OF A PADLOCK OR LOCKING BAR AND IT SHALL NOT BE POSSIBLE TO REMOVE THE OUTGOING FUSE(S) UNLESS THE ISOLATION SWITCH IS IN THE OFF POSITION. FUSE CARRIERS SHALL UTILISE HRC FUSE LINKS TO BS 88-2.
9. THE INSTALLATION SHALL BE EARTHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, AND WITH THE RECOMMENDATIONS CONTAINED IN BS 7430



LEGEND.

- X — NEW COLUMN MOUNTED LUMINAIRE TO STREET C/W 27W LED LAMP AND INTEGRAL MAY FLOWER SMART CONTROLS AS HOLOPHANE VMX2 MOUNTED ON 6M COLUMN CONNECTED TO PUBLIC NETWORK.
- EX — EXISTING COLUMN LUMINAIRE TO REMAIN.
- EX — EXISTING COLUMN MOUNTED LUMINAIRE TO BE REMOVED.
- Y — NEW COLUMN MOUNTED LUMINAIRE TO FOOTPATHS IN CENTRAL LANDSCAPED AREA C/W 17W LED LAMPS AND INTEGRAL MAYFLOWER SMART CONTROLS AS DW WINDSOR NYX 330 MOUNTED ON 5m COLUMN.
- Q — WALL MOUNTED BULKHEAD C/W 15W LED LAMP AND INTEGRAL PHOTOCELL AS SMART SYSTEMS LTD, EYE RANGE.
- EVC — DUAL ELECTRIC VEHICLE CHARGING POINTS. c/w 2x7kW OUTLETS AND NAL SOCKETS AS SUPPLIED BY JOJU LTD.
- Ph2 — DENOTES PHASE 2 LUMINAIRE
- BELOW GROUND DUCT – SIZE AS SHOWN
- CCTV — CCTV CAMERA TO LIGHTING COLUMN
- CCTV — 70mm DIA RIGIDUCT FOR CCTV 350mm BFGL UNLESS INDICATED OTHERWISE

Notes

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER ENGINEERING AND ARCHITECTURAL DRAWINGS.
2. EXACT POSITIONS AND MOUNTING HEIGHTS OF ALL EQUIPMENT TO BE AGREED WITH THE ARCHITECT BEFORE THE INSTALLATION IS COMMENCED.

DP1 TO DP2 600x600x800D
DP3 TO DP6 450x450x600D
DP7 TO DP16 600x600x600 CCTV + LV
DP17 TO DP22 450x450x450 CCTV

DP CABLE PITS TO BE AS ADVANCED EASY PIT CONNECT COMPLETE WITH MEDIUM DUTY DUCTILE IRON COVER AND FRAME. COVER SPECIFICATION TO BE AGREED WITH LANDSCAPE ARCHITECT.

Rev	Date	Revision	Dwn	Chk
C12	21.09.23	REVISED TO INCORPORATE COMMENTS	CH	MR
C11	08.09.23	REVISED TO SUIT CLIENT COMMENTS.	CH	MR
C10	05.09.23	REPEATED 'X' TYPE LUMINAIRES REMOVED	CH	MR
C9	25.07.23	COLUMN MOUNTED LUMINAIRES ADDED.	CH	MR
C8	15.06.23	REVISED TO SUIT CLIENT COMMENTS.	LT	MR
C7	21.03.23	COLUMN MOUNTED LUMINAIRES ADDED.	DP	MR
C6	09.02.23	CCTV AND LV ADDED AS REQUESTED.	DP	MR
C5	01.02.23	STREET LIGHTING RELOCATED AS REQUESTED.	DP	MR
C4	23.09.22	LATEST SITE LAYOUT ADDED.	DP	MR
C3	16.05.22	CAR CHARGING LOCATIONS REVISED AS REQUESTED.	DP	MR
C2	05.05.22	CCTV DUCTS ADDED.	DP	MR
C1	26.07.21	CONSTRUCTION ISSUE	LT	MR

Project
WENSLEY ROAD, READING

Client
READING BOROUGH COUNCIL

Title
EXTERNAL ELECTRICAL SITE SERVICES LAYOUT (SHEET 1 OF 3)

NORMAN BROMLEY PARTNERSHIP
Consulting Engineers
Bridge House,
97-101 High Street,
Tonbridge,
Kent. TN9 1DR
Tel. No. (01732) 773737 Fax No. (01732) 773353
Email: mail@normanbromley.co.uk

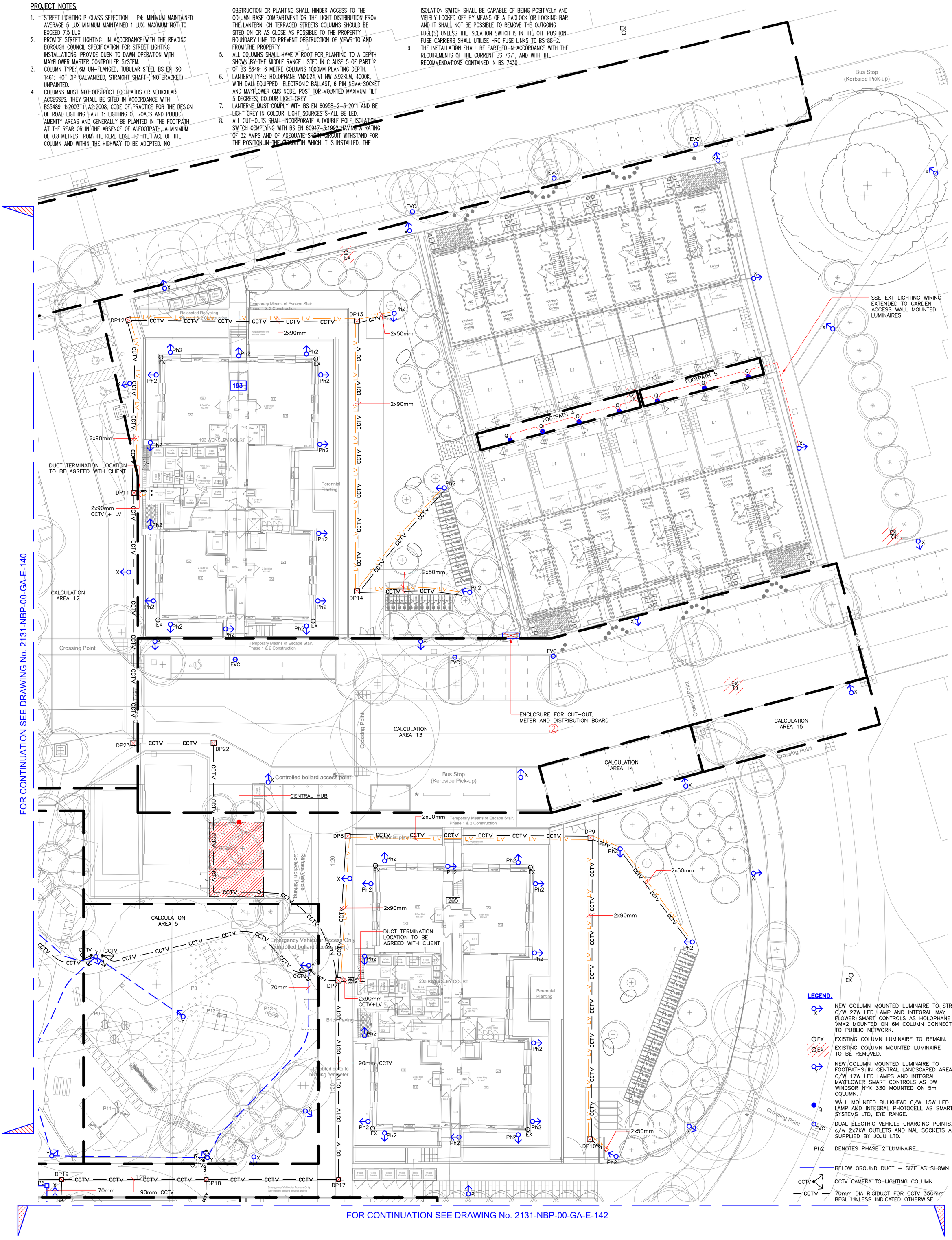
Scale	Date	Drawn	Approved
1:200@A1	MAR'21	DP	MR

Drawing No. 2131-NBP-XX-XX-GA-E-140
Rev. C12

COMPANY OF ORIGIN		ARCHITECTS DRAWING No.	
???		?? NO TITLE SHEET	
ORIGINAL FILE NAME	M43794-ARC-XX-XX-M2-A-9000_A-Site Layout-220922		
ORIGINAL DRAWING TITLE		REV.	DATE RECEIVED
SITE LAYOUT		??	22-09-22

PROJECT NOTES

1. STREET LIGHTING P CLASS SELECTION – P4: MINIMUM MAINTAINED AVERAGE 5 LUX MINIMUM MAINTAINED 1 LUX. MAXIMUM NOT TO EXCEED 7.5 LUX
2. PROVIDE STREET LIGHTING IN ACCORDANCE WITH THE READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING INSTALLATIONS. PROVIDE DUSK TO DAWN OPERATION WITH MAYFLOWER MASTER CONTROLLER SYSTEM.
3. COLUMN TYPE: 6M UN-FLANGED, TUBULAR STEEL BS EN ISO 1461: HOT DIP GALVANIZED, STRAIGHT SHAFT (NO BRACKET) UNPAINTED.
4. COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESSES. THEY SHALL BE SITED IN ACCORDANCE WITH BS5489-1:2003 + A2:2008, CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING PART 1: LIGHTING OF ROADS AND PUBLIC AMENITY AREAS AND GENERALLY BE PLANTED IN THE FOOTPATH AT THE REAR OR IN THE ABSENCE OF A FOOTPATH, A MINIMUM OF 0.8 METRES FROM THE KERB EDGE TO THE FACE OF THE COLUMN AND WITHIN THE HIGHWAY TO BE ADOPTED. NO OBSTRUCTION OR PLANTING SHALL HINDER ACCESS TO THE COLUMN BASE COMPARTMENT OR THE LIGHT DISTRIBUTION FROM THE LANTERN. ON TERRACED STREETS COLUMNS SHOULD BE SITED ON OR AS CLOSE AS POSSIBLE TO THE PROPERTY BOUNDARY LINE TO PREVENT OBSTRUCTION OF VIEWS TO AND FROM THE PROPERTY.
5. ALL COLUMNS SHALL HAVE A ROOT FOR PLANTING TO A DEPTH SHOWN BY THE MIDDLE RANGE LISTED IN CLAUSE 5 OF PART 2 OF BS 5649: 6 METRE COLUMNS 1000MM PLANTING DEPTH.
6. LANTERN TYPE: HOLOPHANE VMX024 V1 NW 3.92KLM, 4000K, WITH DALI EQUIPPED ELECTRONIC BALLAST, 6 PIN NEMA SOCKET AND MAYFLOWER CMS NODE. POST TOP MOUNTED MAXIMUM TILT 5 DEGREES, COLOUR LIGHT GREY
7. LANTERNS MUST COMPLY WITH BS EN 60958-2-3 2011 AND BE LIGHT GREY IN COLOUR. LIGHT SOURCES SHALL BE LED.
8. ALL CUT-OUTS SHALL INCORPORATE A DOUBLE POLE ISOLATION SWITCH COMPLYING WITH BS EN 60947-3:1992 HAVING A RATING OF 32 AMPS AND OF ADEQUATE SHORT CIRCUIT WITHSTAND FOR THE POSITION IN THE CIRCUIT IN WHICH IT IS INSTALLED. THE ISOLATION SWITCH SHALL BE CAPABLE OF BEING POSITIVELY AND VISIBLY LOCKED OFF BY MEANS OF A PADLOCK OR LOCKING BAR AND IT SHALL NOT BE POSSIBLE TO REMOVE THE OUTGOING FUSE(S) UNLESS THE ISOLATION SWITCH IS IN THE OFF POSITION. FUSE CARRIERS SHALL UTILISE HRC FUSE LINKS TO BS 88-2.
9. THE INSTALLATION SHALL BE EARTHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, AND WITH THE RECOMMENDATIONS CONTAINED IN BS 7430



LEGEND.

- X — NEW COLUMN MOUNTED LUMINAIRE TO STREET C/W 27W LED LAMP AND INTEGRAL MAY FLOWER SMART CONTROLS AS HOLOPHANE VMX2 MOUNTED ON 6M COLUMN CONNECTED TO PUBLIC NETWORK.
- EX — EXISTING COLUMN LUMINAIRE TO REMAIN.
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- Q — WALL MOUNTED BULKHEAD C/W 15W LED LAMP AND INTEGRAL PHOTOCELL AS SMART SYSTEMS LTD, EYE RANGE.
- EVC — DUAL ELECTRIC VEHICLE CHARGING POINTS. c/w 2x7kW OUTLETS AND NAL SOCKETS AS SUPPLIED BY JOJU LTD.
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- BELOW GROUND DUCT – SIZE AS SHOWN
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Notes

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER ENGINEERING AND ARCHITECTURAL DRAWINGS.
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DP1 TO DP2 600x600x800D
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DP7 TO DP16 600x600x600 CCTV + LV
DP17 TO DP22 450x450x450 CCTV

DP CABLE PITS TO BE AS ADVANCED EASY PIT CONNECT COMPLETE WITH MEDIUM DUTY DUCTILE IRON COVER AND FRAME. COVER SPECIFICATION TO BE AGREED WITH LANDSCAPE ARCHITECT.

Rev	Date	Revision	Dwn	Chk
C13	21.09.23	REVISED TO INCORPORATE COMMENTS	CH	MR
C12	05.09.23	REPEATED 'X' TYPE LUMINAIRES REMOVED	CH	MR
C11	25.07.23	COLUMN MOUNTED LUMINAIRES ADDED.	CH	MR
C10	15.06.23	REVISED TO SUIT CLIENT COMMENTS.	LT	MR
C9	21.03.23	COLUMN MOUNTED LUMINAIRES ADDED.	DP	MR
C8	09.02.23	CCTV AND LV ADDED AS REQUESTED.	DP	MR
C7	01.02.23	STREET LIGHTING RELOCATED AS REQUESTED.	DP	MR
C6	25.11.22	LIGHTING DESIGN AMENDED	CH	MR
C5	23.09.22	LATEST SITE LAYOUT ADDED.	DP	MR
C4	25.08.22	CCTV MODIFIED AS CLIENTS MARK-UP	LT	MR
C3	16.05.22	CAR CHARGING LOCATIONS REVISED AS REQUESTED.	DP	MR
C2	05.05.22	CCTV DUCTS ADDED.	DP	MR
C1	26.07.21	CONSTRUCTION ISSUE	LT	MR

Project
WENSLEY ROAD, READING

Client
READING BOROUGH COUNCIL

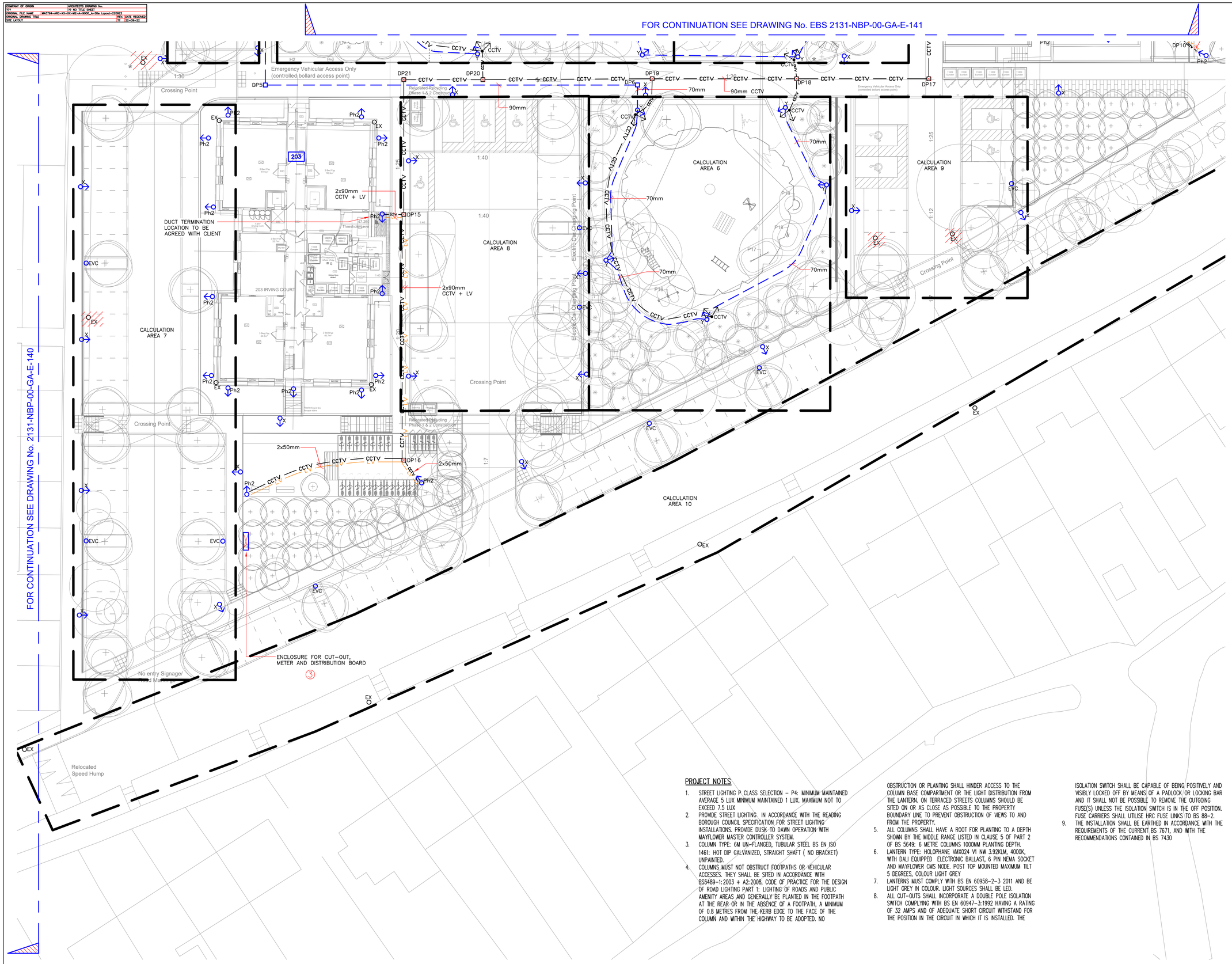
Title
EXTERNAL ELECTRICAL SITE SERVICES LAYOUT (SHEET 2 OF 3)

NORMAN BROMLEY PARTNERSHIP
Consulting Engineers
Bridge House,
97-101 High Street,
Tonbridge,
Kent. TN9 1DR
Tel. No. (01732) 773737 Fax No. (01732) 773353
Email: mail@normanbromley.co.uk

Scale	Date	Drawn	Approved
1:200@A1	MAR'21	DP	MR

Drawing No. 2131-NBP-XX-XX-GA-E-141
Rev. C13

COMPANY OF ORIGIN	ARCHITECTS DRAWING No.
???	?? NO TITLE SHEET
ORIGINAL FILE NAME MA3794-ARC-XX-XX-M2-A-8000_A-Site Layout-220922	
ORIGINAL DRAWING TITLE	REV. DATE RECEIVED
SITE LAYOUT	?? 22-09-22



PROJECT NOTES

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LEGEND.

- X — NEW COLUMN MOUNTED LUMINAIRE TO STREET C/W 27W LED LAMP AND INTEGRAL MAY FLOWER SMART CONTROLS AS HOLOPHANE VMX2 MOUNTED ON 6M COLUMN CONNECTED TO PUBLIC NETWORK.
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DP1 TO DP2 600x600x800D
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DP CABLE PITS TO BE AS ADVANCED EASY PIT CONNECT COMPLETE WITH MEDIUM DUTY DUCTILE IRON COVER AND FRAME. COVER SPECIFICATION TO BE AGREED WITH LANDSCAPE ARCHITECT.

Rev	Date	Notes	Dwn	Chk
C12	21.09.23	REVISED TO INCORPORATE COMMENTS	CH	MR
C11	05.09.23	REPEATED 'X' TYPE LUMINAIRES REMOVED	CH	MR
C10	25.07.23	COLUMN MOUNTED LUMINAIRES ADDED.	CH	MR
C9	15.06.23	REVISED TO SUIT CLIENT COMMENTS.	LT	MR
C8	21.03.23	COLUMN MOUNTED LUMINAIRES ADDED.	DP	MR
C7	09.02.23	CCTV AND LV ADDED AS REQUESTED.	DP	MR
C6	01.02.23	STREET LIGHTING RELOCATED AS REQUESTED.	DP	MR
C5	25.11.22	LIGHTING DESIGN AMENDED	CH	MR
C4	27.09.22	COLUMN RELOCATED ONTO PATH & UPDATED SITE LAYOUT DP11 & DP12 ADDED	DP	MR
C3	16.05.22	CAR CHARGING LOCATIONS REVISED AS REQUESTED.	DP	MR
C2	05.05.22	CCTV DUCTS ADDED.	DP	MR
C1	26.07.21	CONSTRUCTION ISSUE	LT	MR

NORMAN BROMLEY PARTNERSHIP
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Client
READING BOROUGH COUNCIL

Project
WENSLEY ROAD, READING

Service
ELECTRICAL ENGINEERING

Title
EXTERNAL ELECTRICAL SITE SERVICES LAYOUT
(SHEET 3 OF 3)

Scale	Date	Drawn	Approved
1:200@A1	MAR'21	DP	MR

Drawing No.	Rev.
2131-NBP-XX-XX-GA-E-142	C12