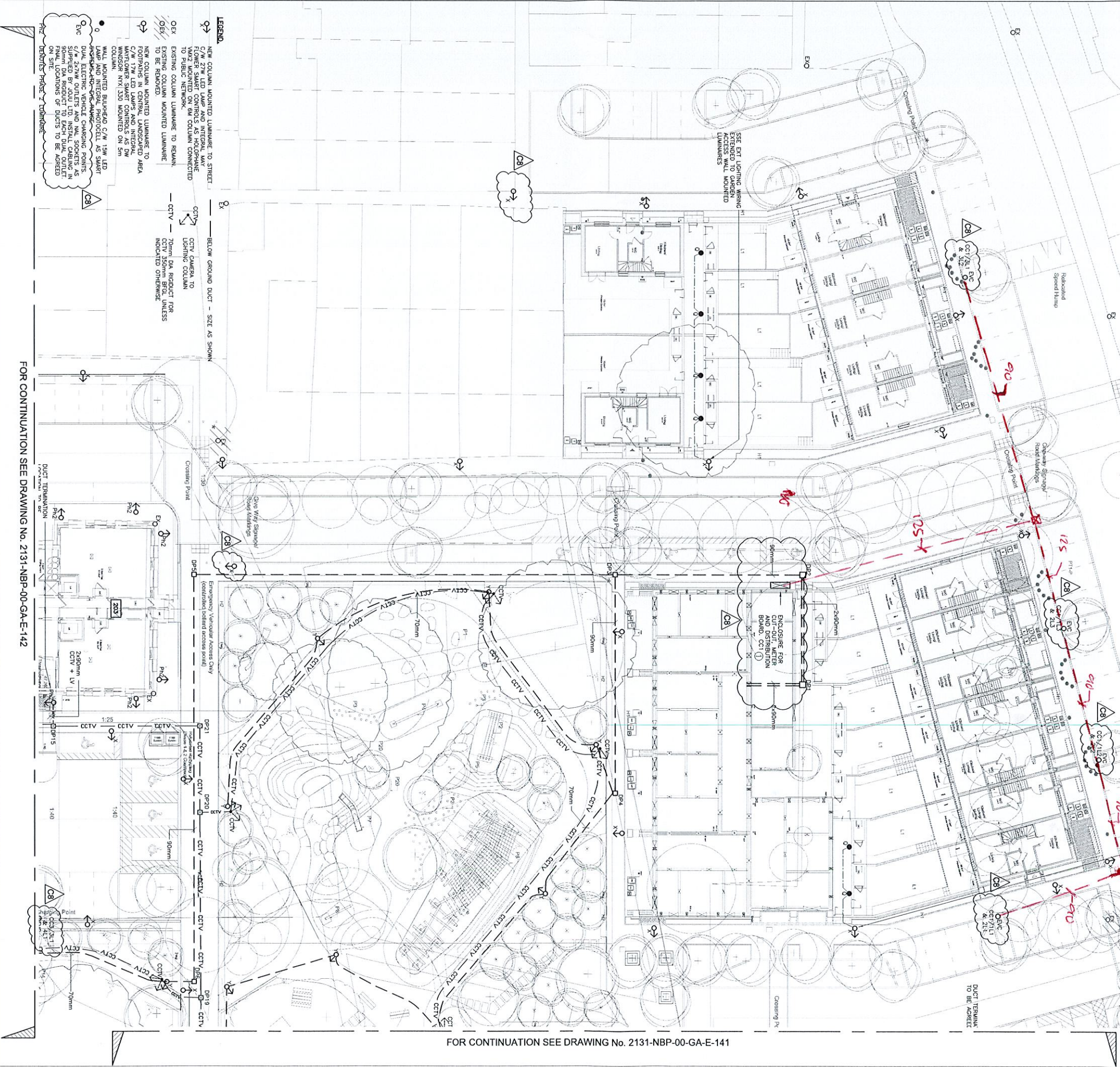


- PROJECT NOTES**
1. STREET LIGHTING P CLASS SELECTION - P4. MINIMUM MAINTAINED AVERAGE 3 LUX. MINIMUM MAINTAINED 1 LUX. MINIMUM NOT TO EXCEED 2.5 LUX.
 2. LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING INSTALLATIONS. PROVIDE DATA TO DAWN OPERATOR WITH MINIMUM MASTER CONTROLLED SYSTEM.
 3. COLUMN TYPE: 60 UN-FLANGED TUBULAR STEEL BS EN ISO 1461. HOT DIP GALVANIZED. STRAIGHT SHAFT (NO BRACKET) UNPAINTED.
 4. ACCESS: THE SHAFT BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.
 5. THE SHAFT SHALL BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.
 6. ACCESS: THE SHAFT BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.
 7. ACCESS: THE SHAFT BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.
 8. ACCESS: THE SHAFT BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.
 9. ACCESS: THE SHAFT BE STAY IN ACCORDANCE WITH READING BOROUGH COUNCIL SPECIFICATION FOR STREET LIGHTING. ALL COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS.

Wensley Road Site



FOR CONTINUATION SEE DRAWING No. 2131-NBP-00-GA-E-141

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 LIGHTING AND CCTV SHALL BE AS SHOWN ON THE DRAWING BEFORE THE INSTALLATION IS COMMENCED.
3. DP1 TO DP2 600x600x800
4. DP3 TO DP4 600x600x800
5. DP5 TO DP6 600x600x800
6. DP7 TO DP8 600x600x800
7. DP9 TO DP10 600x600x800
8. DP11 TO DP12 600x600x800
9. DP13 TO DP14 600x600x800
10. DP15 TO DP16 600x600x800
11. DP17 TO DP18 600x600x800
12. DP19 TO DP20 600x600x800
13. DP21 TO DP22 600x600x800
14. DP23 TO DP24 600x600x800
15. DP25 TO DP26 600x600x800
16. DP27 TO DP28 600x600x800
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18. DP31 TO DP32 600x600x800
19. DP33 TO DP34 600x600x800
20. DP35 TO DP36 600x600x800
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24. DP43 TO DP44 600x600x800
25. DP45 TO DP46 600x600x800
26. DP47 TO DP48 600x600x800
27. DP49 TO DP50 600x600x800
28. DP51 TO DP52 600x600x800
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302. DP599 TO DP600 600x600x800

FOR CONTINUATION SEE DRAWING No. 2131-NBP-00-GA-E-142

Rev	Date	Revision
C1	20/03/21	REVISION TO INCORPORATE COMMENTS
C2	06/04/21	CONSTRUCTION ISSUE
C3	16/04/21	CAR CHANGING LOCATIONS REVISED AS REQUESTED
C4	22/04/21	LATEST SITE LAYOUT ADOPTED
C5	01/05/21	STREET LIGHTING RELOCATED AS REQUESTED
C6	09/05/21	CCTV AND LV ADDED AS REQUESTED
C7	21/05/21	REVISION TO SUIT CLIENT COMMENTS
C8	20/06/21	COLUMN MOUNTED LUMINAIRES ADDED

Project
WENSLEY ROAD, READING

Client
READING BOROUGH COUNCIL

Scale
1:200@A1

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

Consulting Engineers
Bridge House,
30/31 High Street,
Reading, RG1 1JH
Tel: 0118 7733 7733
Email: info@normanbromley.co.uk

Norman Bromley
Partnership

Scale
1:200@A1

Date
MAR 21

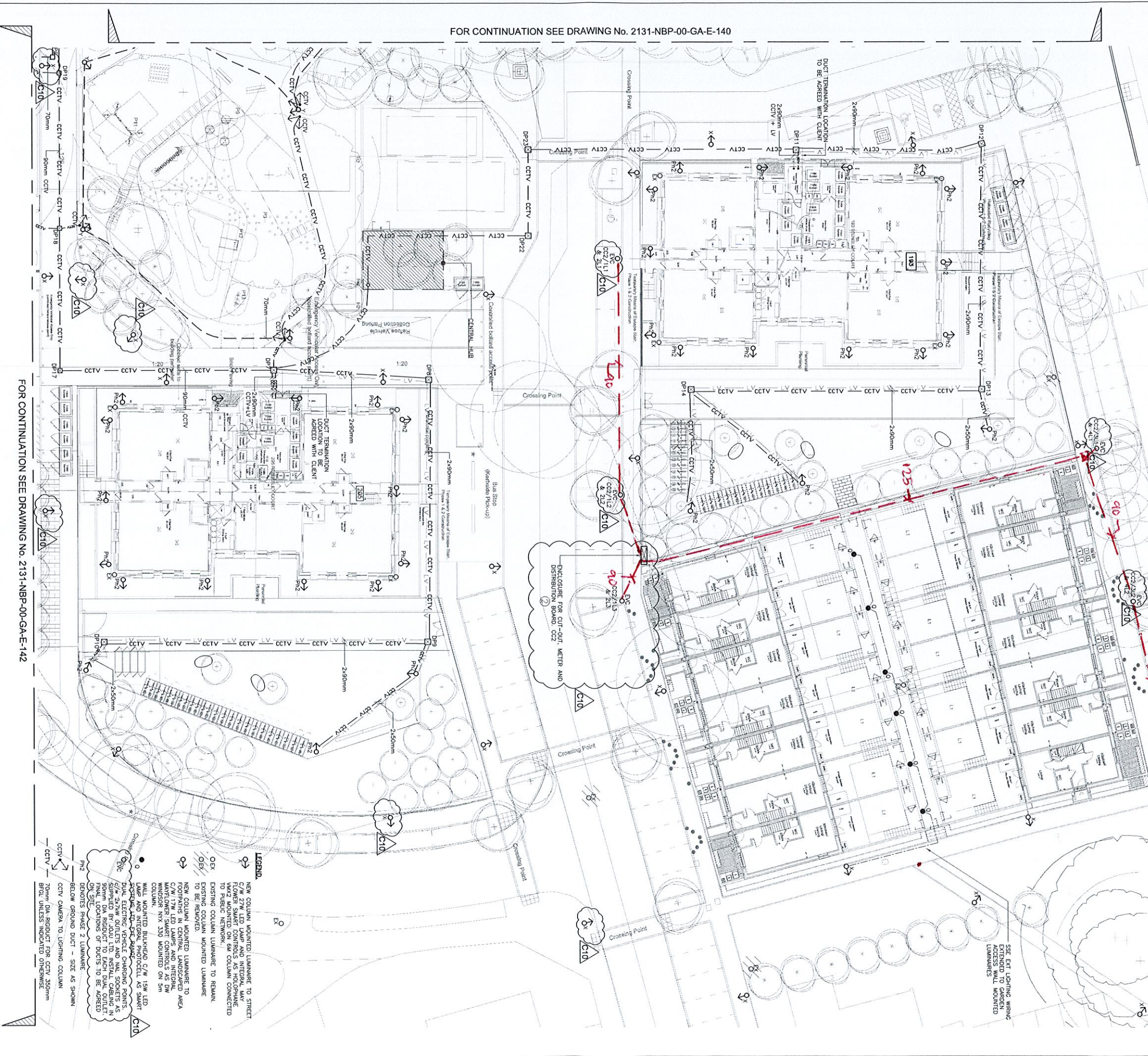
Drawn
DP

Approved
MR

Revised EVC Ducts

- PROJECT NOTES**
1. STREET LIGHTING P CLASS SECTION - P4. MINIMUM MAINTAINED AVERAGE 5 LUX MINIMUM MAINTAINED 1 LUX MINIMUM NOT TO EXCEED 7.5 LUX
 2. PROVIDE STREET LIGHTING IN ACCORDANCE WITH THE READING INSTANTANEOUS FOOT CANDLE FOR STREET LIGHTING WITH MINIMUM MASTER CONTROLLER SYSTEM
 3. COLUMN TYPE: 6M DIA-FLANGED, TUBULAR STEEL BS EN ISO 1461: HOT DIP GALVANIZED STRAIGHT SHEET (NO BRACKET)
 4. COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESS. THEY SHALL BE SITED IN ACCORDANCE WITH BS5836-1:2003 + A2:2008 CODE OF PRACTICE FOR THE DESIGN AND INSTALLATION OF STREET LIGHTING
 5. ALL COLUMNS SHALL HAVE A FOOT FOR PLANTING 10% OF DEPTH OF BS 5649: 6 METRE COLUMNS 1000MM PLANTING DEPTH. LANTERN TYPE: HOLOPHONE WAXOZA V1 W/ 3.52KVA 4000K WITH DALI EQUIPPED ELECTRONIC BALLAST, 6 PIN HEAVY SOCKET AND MOUNTING CANS MADE POST TOP MOUNTED MAXIMUM TILT 5 DEGREES. COLUMN SHAPE PER BS EN 60598-2-3:2011 AND BE LIGHT CREST IN COLOUR LIGHT SQUARES SHALL BE LIT
 6. ALL OUT-GOITS 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 RELOCATE THE LOCKING BAR(S) UNLESS THE ISOLATION SWITCH IS IN THE OFF POSITION. THE INSTALLATION SHALL BE CARRIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, AND WITH THE RECOMMENDATIONS CONTAINED IN BS 7430.
 7. DISTURBANCE OR PLANTING SHALL HINDER ACCESS TO THE COLUMN BASE COMPARTMENT OR THE LIGHT DISTRIBUTION FROM THE LANTERN ON TERNED STREET COLUMNS SHOULD BE SITED ON OR AS CLOSE AS POSSIBLE TO THE PROPERTY AND FROM THE PROPERTY PREVENT OBSTRUCTION OF WHEELS TO AND FROM THE PROPERTY
 8. ALL COLUMNS SHALL HAVE A FOOT FOR PLANTING 10% OF DEPTH OF BS 5649: 6 METRE COLUMNS 1000MM PLANTING DEPTH. LANTERN TYPE: HOLOPHONE WAXOZA V1 W/ 3.52KVA 4000K WITH DALI EQUIPPED ELECTRONIC BALLAST, 6 PIN HEAVY SOCKET AND MOUNTING CANS MADE POST TOP MOUNTED MAXIMUM TILT 5 DEGREES. COLUMN SHAPE PER BS EN 60598-2-3:2011 AND BE LIGHT CREST IN COLOUR LIGHT SQUARES SHALL BE LIT
 9. ALL OUT-GOITS 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 RELOCATE THE LOCKING BAR(S) UNLESS THE ISOLATION SWITCH IS IN THE OFF POSITION. THE INSTALLATION SHALL BE CARRIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, AND WITH THE RECOMMENDATIONS CONTAINED IN BS 7430.

FOR CONTINUATION SEE DRAWING No. 2131-NBP-00-GA-E-140



FOR CONTINUATION SEE DRAWING No. 2131-NBP-00-GA-E-142

Notes

1. THIS DRAWING SHALL BE USED 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.
3. DP1 TO DP2 600x600x8000
4. DP3 TO DP6 450x450x6000
5. DP7 TO DP12 450x450x4500
6. DP17 TO DP22 450x450x4500
7. DP CABLE PITS TO BE AS ADVANCED EAST PIT CONNECT COMPLETE WITH MEDIUM DUTY DUCTILE IRON COVER AND LANDSCAPE ARCHITECT

Rev	Date	Revision
C10	20/08/23	REVISED TO SUIT CLIENT COMMENTS, COLUMN MOUNTED LUMINAIRE ADDED, CCTV AND LV ADDED AS REQUESTED.
C9	08/02/23	STREET LIGHTING RELOCATED AS REQUESTED.
C8	01/02/23	LATEST SITE LAYOUT ADDED.
C7	20/11/22	CCTV ADDED AS CLIENTS MARKUP.
C6	20/08/22	CAR CHARGING LOCATIONS REVISED AS REQUESTED.
C5	16/06/22	CCTV PLANTS ADDED.
C4	06/06/22	CONSTRUCTION ISSUE
C3	26/07/21	REVISED TO INCORPORATE COMMENTS
C2		
C1		

Project	WENSLEY ROAD, READING
Client	READING BOROUGH COUNCIL
Drawn	DP
Checked	MR
Approved	MR
Scale	1:2000 GA1
Drawing No.	2131-NBP-XX-XX-GA-E-141
Rev.	C10

Proposed EVC DUCTS



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.

LEGEND.

-  NEW COLUMN MOUNTED LUMINAIRE TO STREET
 C/W 27W LED LAMP AND INTEGRAL MAY
 FLOWER SMART CONTROLS AS HOLOPHONE
 VMK2 MOUNTED ON 6M COLUMN CONNECTED
 TO PUBLIC NETWORK.
- OEX EXISTING COLUMN LUMINAIRE TO REMAIN.
 EXISTING COLUMN MOUNTED LUMINAIRE
 TO BE REMOVED.
-  NEW COLUMN MOUNTED LUMINAIRE TO
 FOOTPATHS IN CENTRAL LANDSCAPED AREA
 C/W 17W LED LAMPS AND INTEGRAL
 MAYFLOWER SMART CONTROLS AS DW
 MOUNTED NYX 330 MOUNTED ON 5m
 COLUMN.
-  C9 WALL MOUNTED BULKHEAD C/W 15W LED
 LAMP AND INTEGRAL PHOTOCELL AS SMART
 "WIDE" 120° BEAM RANGE.
-  EVC DUAL ELECTRIC VEHICLE CHARGING POINTS.
 C/W 2x7Wm OUTLETS AND NAL SOCKETS AS
 SUPPLIED BY JOUI LU. INSTALL CABLING IN
 90mm DIA RIGIDDUCT TO EACH DUAL OUTLET.
 FINAL LOCATIONS OF DUCTS TO BE AGREED
 ON SITE.
- Ph2 DENOTES PHASE 2 LUMINAIRE
-  BELOW GROUND DUCT - SIZE AS SHOWN
-  CCTV CAMERA TO LIGHTING COLUMN
-  70mm DIA RIGIDUCT FOR CCTV 350mm
 BFLG UNLESS INDICATED OTHERWISE
- 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 COUPLER AND
 FRAME. COVER SPECIFICATION TO BE AGREED WITH
 LANDSCAPE ARCHITECT.

C9	20.06.23	REVISED TO SUIT CLIENT COMMENTS.	LT	MR
C8	27.03.23	COLUMN MOUNTED LUMINAIRES ADDED.	DP	MR
C7	08.03.23	CCTV AND LV ADDED AS REQUESTED.	DP	MR
C6	27.02.23	STRIP LIGHTING RELOCATED AS REQUESTED.	DP	MR
C5	25.11.22	LIGHTING DESIGN AMENDED	CH	MR
C4	27.08.22	COLUMN RELOCATED ONTO PATH & UPDATED SITE LAYOUT DP11 & DP12 ADDED	DP	MR
C3	18.06.22	CAR CHARGING LOCATIONS REVISED AS REQUESTED.	DP	MR
C2	05.06.22	CCTV DUCTS ADDED.	DP	MR
C1	26.01.21	<u>CONSTRUCTION ISSUE</u> REVISED TO INCORPORATE COMMENTS	LT	MR

Rev	Date	Notes	Dwn	Chk
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Kent TN9 1DR

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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 1:200@A1	Date MAR'21	Drawn DP	Approved MR
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Drawing No.	Rev.
2131-NBP-XX-XX-GA-E-142	C9

PROJECT NOTES

1. STREET LIGHTING P. CLASS SELECTION – P4. MINIMUM MAINTAINED AVERAGE S LUX MINIMUM MAINTAINED 1 LUX. MAXIMUM NOT TO EXCEED 7.5 LUX
2. PROVIDE STREET LIGHTING, IN ACCORDANCE WITH THE READING, BROUGH LEICHTING SPECIFICATION FOR STREET LIGHTING INSTALLATIONS. PROVIDE DUSK TO DAWN OPERATION WITH MAYFLOWER MASTER CONTROLLER SYSTEM
3. COLUMN TYPE: 6M UN-PLATED, TUBULAR STEEL BS EN ISO 1461 HOT DIP GALVANIZED, STRAIGHT SHAFT (NO BRACKET) UNPAINTED.
4. COLUMNS MUST NOT OBSTRUCT FOOTPATHS OR VEHICULAR ACCESSSES 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 OPEN AREAS AND GENERALLY BE PLANTED IN THE FOOTPATH AT THE REAR OR IN THE ABSENCE OF A FOOTPATH, A MINIMUM OF 0.9 METRES FROM THE KERB EDGE TO THE FACE OF THE COLUMN AND WITHIN THE HIGHWAY TO BE ADJOINED. 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 WX024 V1 NW 3.92KLW, 4000K, WITH DIAL EQUIPPED: ELECTRONIC BALLAST, 6 PM NEMA SOCKET, AND MAYFLOWER COME ONE. POST TOP MOUNTED MAXIMUM TILT 5 DEGREES, COLOUR LIGHT GREY.
7. LANTERNS MUST COMPLY WITH BS EN 60598-2-3 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. THE INSTALLATION SHALL BE EARTHED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT BS 7671, AND WITH THE RECOMMENDATIONS CONTAINED IN BS 7430

PROPOSED EVC DUCTS