

NOTES

- ALL EXTERIOR LIGHTING SHALL COMPLY WITH CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING BS5489-1:2013, EN13201-2015, DUN LAOGHAIRE RATHDOWN COUNTY COUNCIL PUBLIC LIGHTING INSTALLATION IN RESIDENTIAL AND INDUSTRIAL AREA'S GUIDANCE DOCUMENT 2014, NATIONAL RULES FOR ELECTRICAL INSTALLATION ET101:2008- PART 1 GENERAL REQUIREMENTS & PART 2.3 PARTICULAR REQUIREMENTS FOR PUBLIC LIGHTING INSTALLATIONS.
- THE EXTERNAL LIGHTING LAYOUT HAS BEEN DESIGNED IN ACCORDANCE WITH BS 5489-1:2013 AND EN 13201-2015 STANDARDS
- DUCTING SHALL COMPLY WITH BSEN 50086-1-2:3-4 LATEST EDITION & SHALL BE SINGLE WALL, COLORED RED & MANUFACTURED FROM HIGH DENSITY POLYPROPYLENE. THE NOMINAL EXTERNAL DIAMETER OF THE DUCT SHALL BE 107mm WITH A MINIMAL WALL THICKNESS OF 5mm. EACH LENGTH OF DUCT SHALL BE STAMPED WITH THE WORDS "PUBLIC LIGHTING" OR ALTERNATIVELY "STREET LIGHTING", IN 18mm BLACK LETTERING AT 0 DEGREES, AT ONE METRE INTERVALS. DUCT SHALL BE LAID WITH THIS LEGEND FACING UPWARDS. DUCT SHALL BE LAID IN A STRAIGHT LINE CLOSE TO THE LINE OF THE COLUMN LOCATIONS & SHALL CONTAIN A CONTINUOUS DRAW WIRE OF 8KN STRENGTH. ALL DUCTS SHALL BE PROVEN WITH BRUSH AND MANDRILL. POLYPROPYLENE ROPED AND PLUGGED AND COMPLIANT WITH ET101 REQUIREMENTS RED DUCT SHALL BE USED FOR EXTERIOR LIGHTING CABLES.
- A MINIMUM DEPTH OF 600mm COVER IS REQUIRED IN URBAN PATHWAYS & A MINIMUM OF 600mm COVER IS REQUIRED FOR GRASS MARGINS, PEDESTRIAN WAYS, LANEWAYS & GATEWAY ENTRANCES & A MINIMUM DEPTH OF 750mm IS REQUIRED AT ROAD CROSSINGS OR IN CARRIAGEWAYS.
- ALL CABLE DRAW INSPECTION PITS SHALL BE OF DUCTILE IRON GALVANISED STEEL FRAME WITH FRAME OPENING OF 500mmx500mm TO CONFORM TO EN1248125 MARKED "PUBLIC LIGHTING" OR TRAFFIC WITH M16 STAINLESS STEEL LOCKING BOLT. ALL CABLE DRAW INSPECTION PITS FOR USE ON CARRIAGEWAYS SHALL BE OF THE SAME DIMENSION AS ABOVE WITH HIGH STRENGTH ENGINEERING OR STU/ CONCRETE. COVERS AND FRAMES SHALL BE APPROVED BY LICENSED BODY NSAI OR BRITISH STANDARDS INSTITUTE OF QUALITY ASSURANCE SERVICES.
- ALL EQUIPMENT TO BE SUITABLY IP RATED FOR THE ENVIRONMENT THEY ARE BEING INSTALLED.
- LIGHT COLUMN SETBACK SHALL BE 0.8M FROM KERB IN ACCORDANCE WITH BS5489-1 TABLE 2
- LIGHT COLUMNS CLOSE TO APARTMENT BLOCK 2 WILL COME WITH LIGHT BAFFLES TO BLOCK OBTRUSIVE LIGHT INTO APARTMENTS' WINDOWS

SCHEDULE OF SYMBOLS

	950mm PVC CONDUIT CONCEALED UNDERGROUND
	1No 50mm ESB MV DUCTS
	ESB MINI-PILLAR FOR PUBLIC LIGHTING
	MICRO PILLAR

SCHEDULE OF SYMBOLS ROAD LIGHTING

EX1		EXISTING LIGHTING POLE - 8m HIGH LANTERN NOT DETERMINED 72W
EX2		EXISTING LIGHTING POLE - 6m HIGH LANTERN NOT DETERMINED 52W
X1		POLE MOUNTED DOWN LIGHT TYPE X1 (6m HIGH) Thorn 92900586 CQ 24L50-740 EWSC CLO BPS CL2 M60 ADC [STD] (3000 lm; 37.0 W; 1xUser defined)
X1 + BAFFLE		POLE MOUNTED DOWN LIGHT TYPE X1 (6m HIGH) Thorn 92900586 CQ 24L50-740 EWSC CLO BPS CL2 M60 ADC [STD] (3000 lm; 37.0 W; Light baffle; 1xUser defined)

SCHEDULE OF SYMBOLS SUPPLEMENTARY LIGHTING

X2		POLE MOUNTED AMENITY DOWN LIGHT TYPE X2 (4m HIGH) Thorn 96290024 AVENUE F2 35W HIE-CE E27CL1 PM D76 LI [STD] (3000 lm; 44.0 W; 1xUser defined)
X3		BOLLARD LIGHT TYPE X3 (0.8m HIGH) Thorn 96262 101 D-CO LED BOLLARD 700 30L50 830 CL1 [STD] (507 lm; 14.0 W; 1xUser defined)

NOTE: No Ducting Shown for supplementary lighting, refer to the mechanical and electrical site services layout. Dwg P017-PMP-00-00-DR-ME-01

P8	PLANNING	RP	RP	RH	28/06/19
P7	PLANNING ISSUE	RP	RP	RH	12/06/19
P6	PLANNING ISSUE	RP	RP	RH	10/06/19
P5	PRE-APPLICATION ISSUE	RP	RP	RH	28/05/19
P4	PRE-APPLICATION ISSUE	RP	PF	RH	21/05/19
P3	PRE-APPLICATION ISSUE	TS	RP	RH	14/05/19
P2	PRE-APPLICATION ISSUE	TS	RF	RF	15/03/19
P1	PRELIMINARY ISSUE	TS	RF	RF	28/02/19
REV	DESCRIPTION	DRN	ENG	APP	DATE

**PMP consulting**

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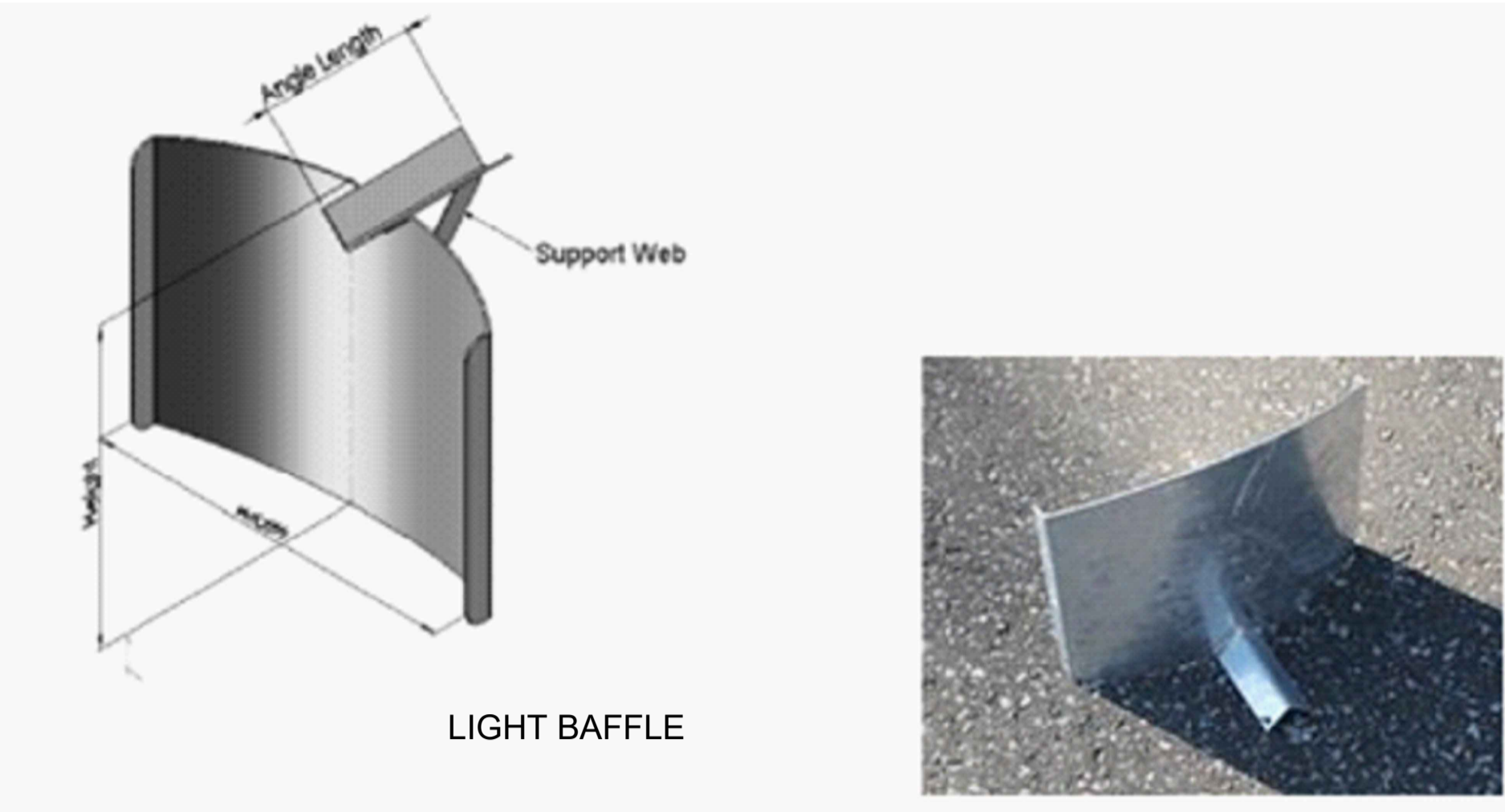
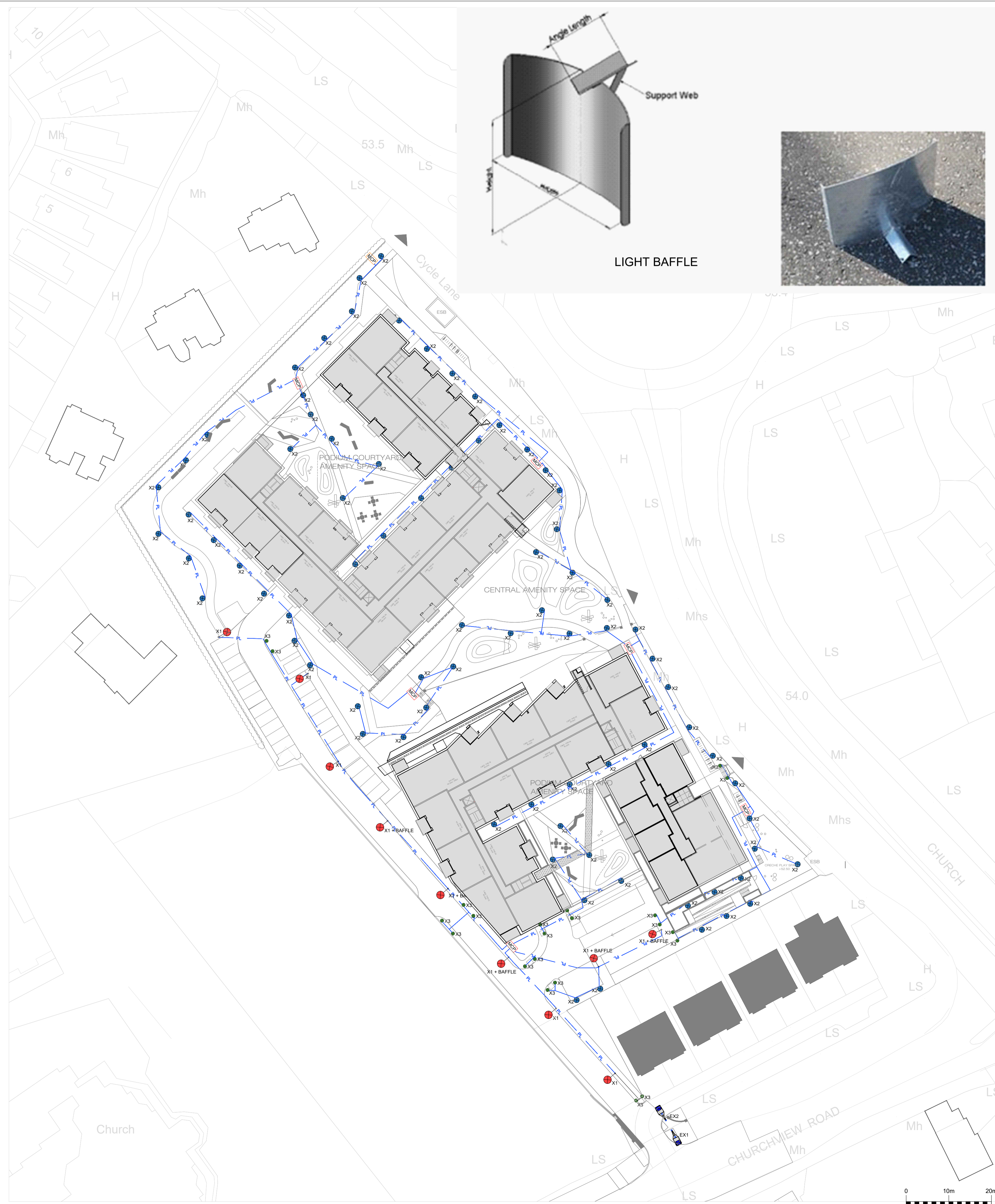
PROJECT  
**RESIDENTIAL DEVELOPMENT AT CHURCHVIEW ROAD, KILLINEY, CO DUBLIN**

CLIENT  
**STRAND COURT LIMITED**

ARCHITECT  
**OMAHONY PIKE ARCHITECTS URBAN DESIGNERS INTERIOR DESIGNERS**

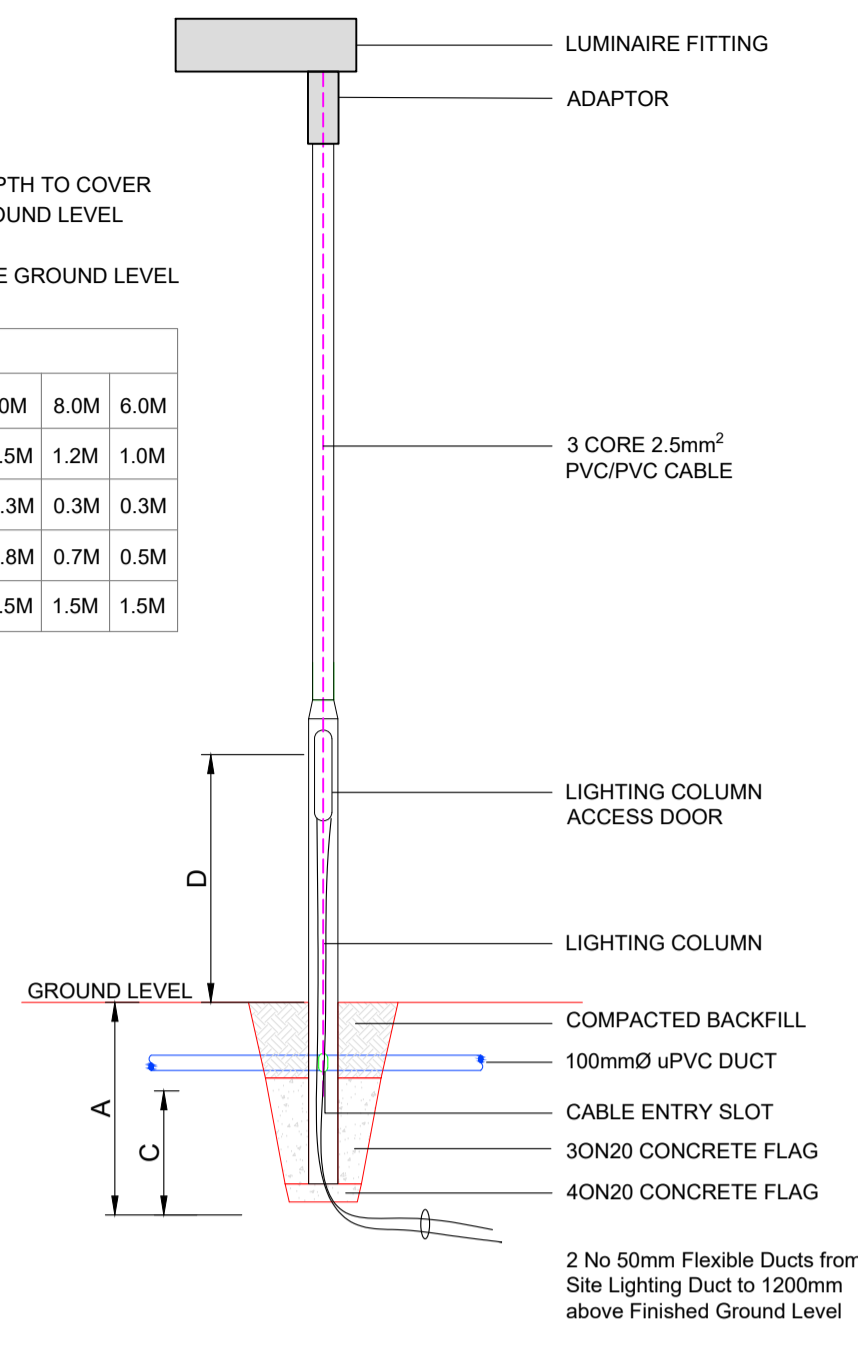
DRAWING TITLE  
**ELECTRICAL SERVICES INSTALLATION SITE LIGHTING SERVICES**

SCALE 1:1000 @ A3 1:500 @ A1	SHEET SIZE A1	DRAWING No. P017-PMP-00-00-DR-E-00	REV. P8
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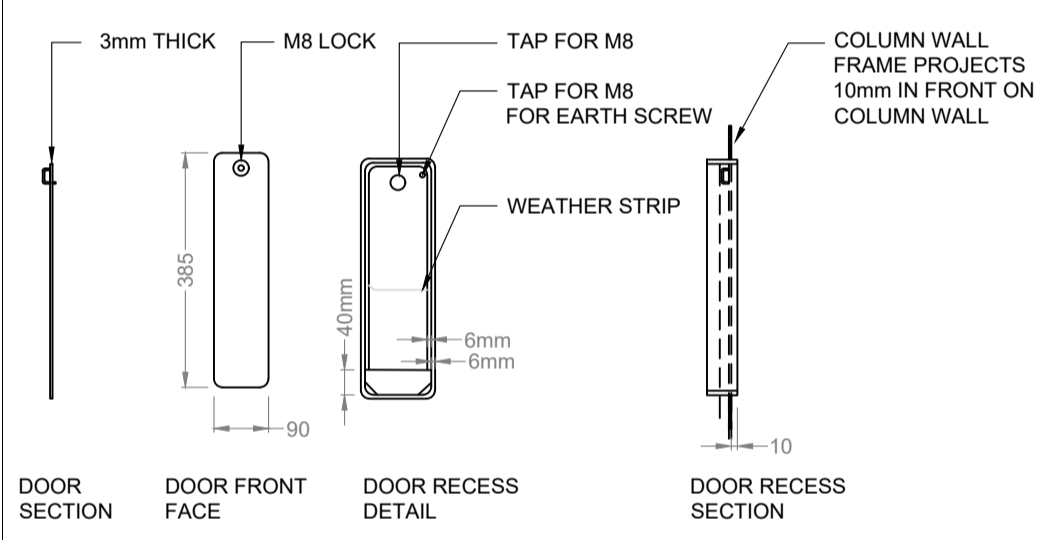
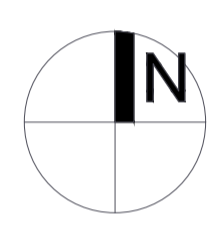


- NOTES:
- STEEL TO BS4360 GRADE 43 C (min thickness is 3mm)
  - BITUMINOUS PRESERVATION TO COVER PLANTING DEPTH TO COVER PLANTING DEPTH AND TO EXTEND TO 250mm ABOVE GROUND LEVEL (1250mm IN TOTAL)
  - BOTTOM OF THE DOOR OPENING TO BE 1300mm ABOVE GROUND LEVEL

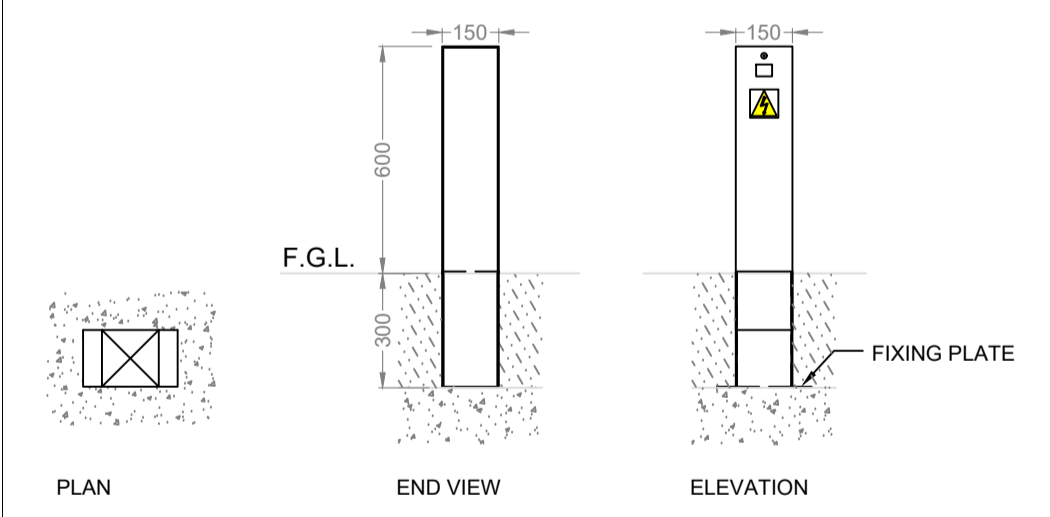
COLUMN MOUNTING HEIGHT:	14M	13M	12M	10M	8.0M	6.0M
ROOT DEPTH - A	2.0M	2.0M	1.7M	1.5M	1.2M	1.0M
CABLE ENTRY DEPTH - B	0.3M	0.3M	0.3M	0.3M	0.3M	0.3M
ROOTING CONCRETE DEPTH - C	1.3M	1.3M	1.0M	0.8M	0.7M	0.5M
HEIGHT OF COLUMN DOOR - D	1.5M	1.5M	1.5M	1.5M	1.5M	1.5M



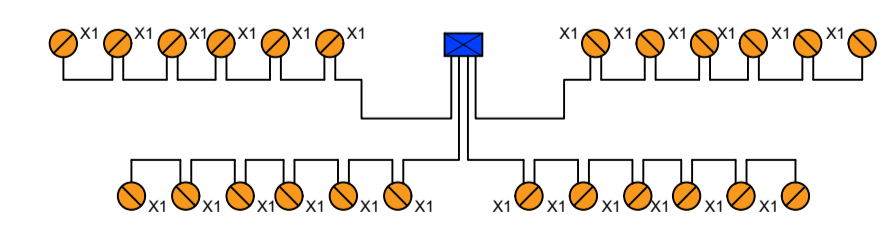
LIGHTING COLUMN DETAIL (SCALE N.T.S.)



LIGHTING COLUMN ACCESS DOOR DETAIL (SCALE N.T.S.)



MICRO PILLAR DETAIL (SCALE N.T.S.)



- MICRO PILLAR FOR PUBLIC LIGHTING
- STREET/EXTERNAL LUMINAIRE

- NOTES:
- A MAXIMUM OF 4No. CIRCUIT PER MICRO PILLAR
  - A MAXIMUM OF 8No. LUMINAIRE FITTINGS PER CIRCUIT
  - MICRO PILLAR MUST BE LOCATED A MINIMUM OF 2.0M AWAY FROM AN ESB NETWORKS MINI PILLAR
  - MICRO PILLAR MUST BE LOCATED A MINIMUM OF 10.0M AWAY FROM AN ESB NETWORKS STATION.

MICRO PILLAR CIRCUITRY DETAIL (SCALE N.T.S.)