

**NOTES**

- ALL EXTERIOR LIGHTING SHALL COMPLY WITH CODE OF PRACTICE FOR THE DESIGN OF ROAD LIGHTING BS5489-1:2013, EN13201-2015, LOCAL COUNCIL PUBLIC LIGHTING INSTALLATION IN RESIDENTIAL AND INDUSTRIAL AREAS, 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 IS EN 13201-2015 & CIBSE GUIDE LG-06 GUIDELINES.
- DUCTING SHALL COMPLY WITH BS EN 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 6mm. 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 80N 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 EXTERIORS 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 615mm x 615mm TO CONFORM TO EN124B125 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 SITU CONCRETE COVERS AND FRAMES SHALL BE APPROVED BY LICENSED ECNY NSAI OR BRITISH STANDARDS INSTITUTE OF QUALITY ASSURANCE SERVICES.
- ALL EQUIPMENT TO BE SUITABLY IP & IK RATED FOR THE ENVIRONMENT THEY ARE BEING INSTALLED.
- LIGHT COLUMNS TO BE LOCATED AT BACK OF FOOTPATH IN RESIDENTIAL AREAS.
- LIGHT COLUMN SETBACK SHALL BE 0.8M FROM KERB IN ACCORDANCE WITH BS5489-1 TABLE 2 & LOCAL COUNTY COUNCIL PUBLIC LIGHTING SPECIFICATION.
- SITE LIGHTING CABLE TO TERMINATE IN SITE MINI PILLARS AS INDICATED.
- PUBLIC LIGHTING COLUMNS TO BE CONSTRUCTED OF GALVANISED STEEL AND COMPLY WITH LOCAL COUNTY COUNCIL PUBLIC LIGHTING SPECIFICATION REQUIREMENTS & EN40 STANDARDS.

**SCHEDULE OF SYMBOLS**

- LUMINAIRE A (TRUCK YARDS)  
OSQ H0, 4ME OPTIC, 4SL, C8, 3K  
LAMP 24MDSA14033K C8  
POLE MOUNTED AT 6, 8 & 10M AFFL.
- LUMINAIRE B (CAR PARKS)  
TRSA-02-200-6L30821W  
LAMP 12L6L21W3K  
POLE MOUNTED AT 6M AFFL.
- LUMINAIRE C (THROUGH ROADS)  
TRMA-02-15015L308106  
LAMP 3221SL106V150  
POLE MOUNTED AT 10M AFFL.
- LUMINAIRE A (TRUCK YARDS)  
OSQ H0, 4ME OPTIC, 4SL, C8, 3K  
LAMP 24MDSA14033K C8  
WALL MOUNTED AT 8M AFFL.
- LUMINAIRE B (CAR PARKS)  
TRSA-02-200-6L30821W  
LAMP 12L6L21W3K  
WALL MOUNTED AT 6M AFFL.

**ISOLINES**

- 1.0 lx
- 2.0 lx
- 5.0 lx
- 7.0 lx
- 10.0 lx
- 20.0 lx
- 50.0 lx

P3	ISSUED FOR PLANNING	FB	ST	NP	04/04/22
P2	UPDATED ARCH LAYOUT/ISSUED FOR PLANNING	FB	ST	NP	30/03/22
P1	PRELIMINARY ISSUE	FB	ST	NP	28/02/22
REV	DESCRIPTION	DRN	ENG	APP	DATE

**PMEP**  
Penston MEP Consulting

HEALTH & SAFETY  
ISO 9001:2015  
NSAI Certified

QUALITY  
ISO 9001:2015  
NSAI Certified

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PROJECT CALMOUNT RD - WAREHOUSING/ LOGISTICS, OFFICE AND CAFE / RESTUARANT DEVELOPMENT

CLIENT **BLACKWIN LIMITED** ARCHITECT **TOTP Architects**

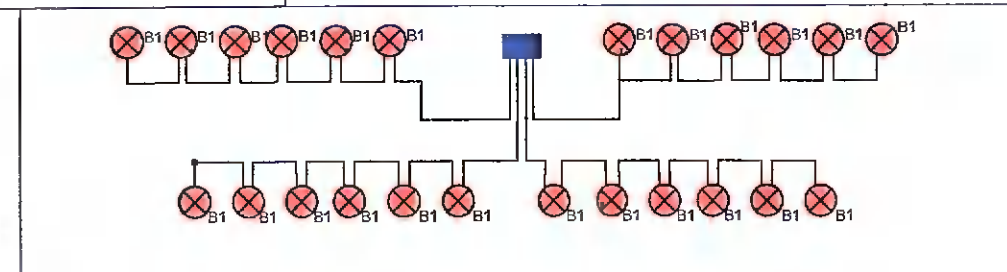
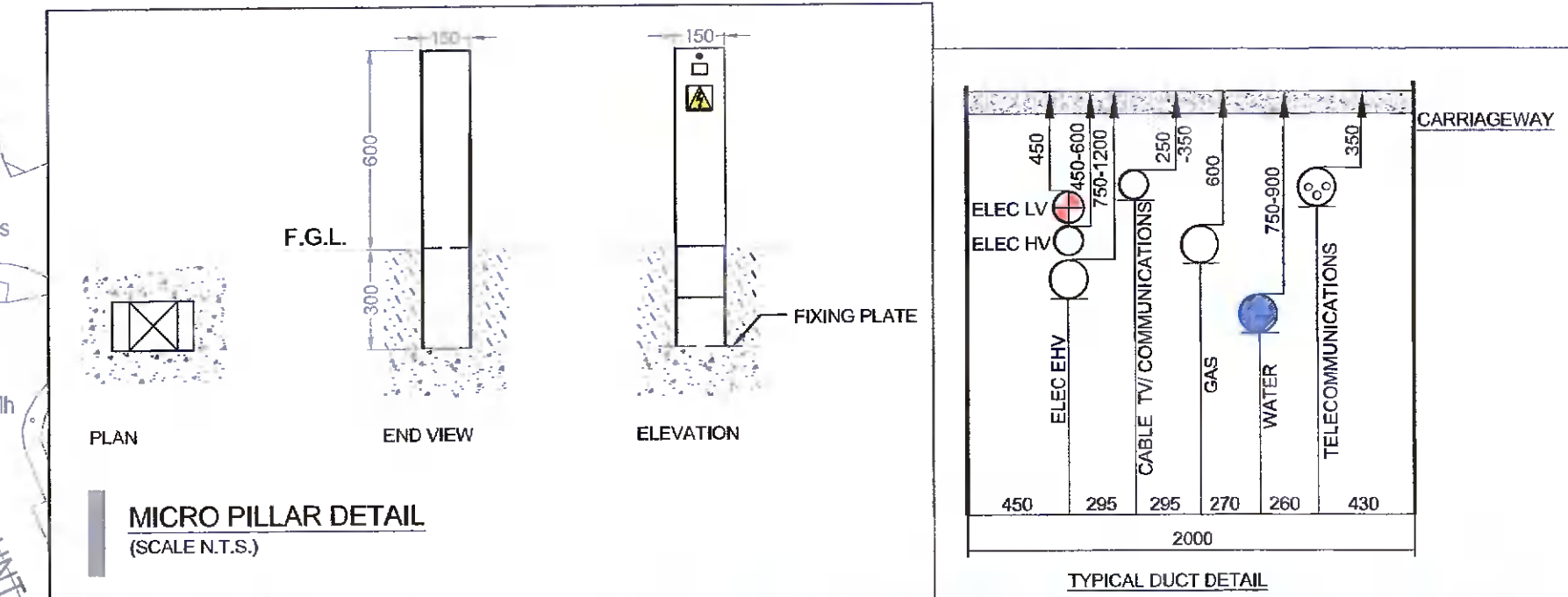
DRAWING TITLE **ELECTRICAL SERVICES INSTALLATION SITE LIGHTING LAYOUT**

SCALE 1:750@A1 1:1500@A3	SHEET SIZE A1	DRAWING No. P048-PMEP-00-00-DR-E-01	REV P3
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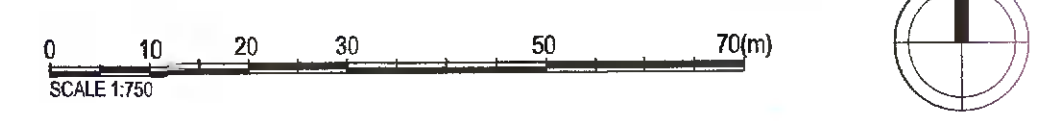
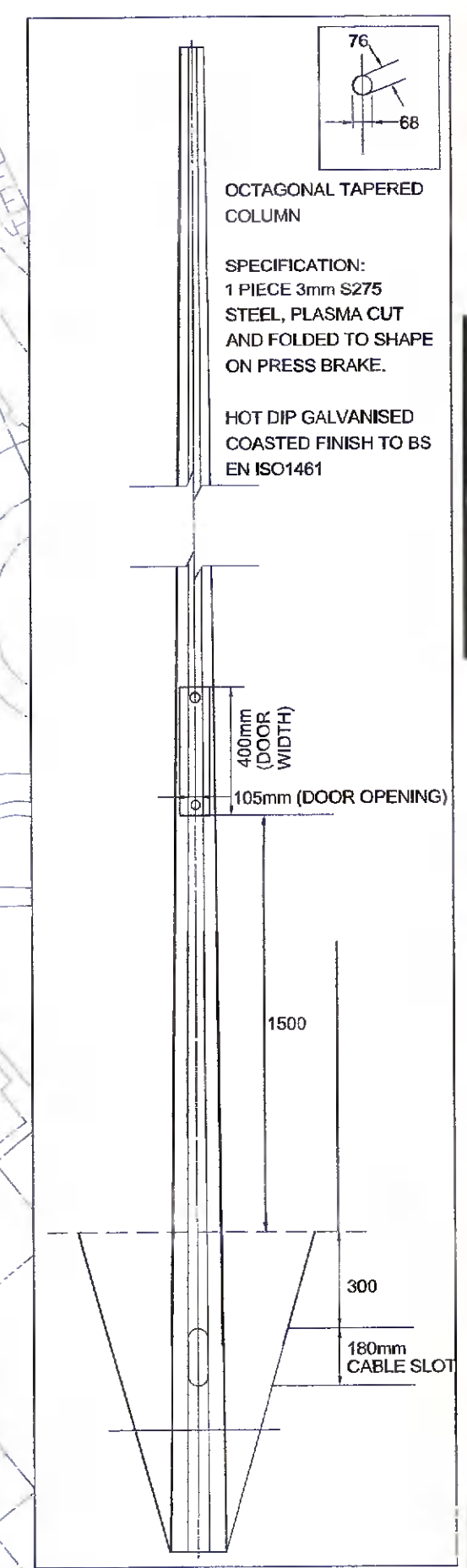
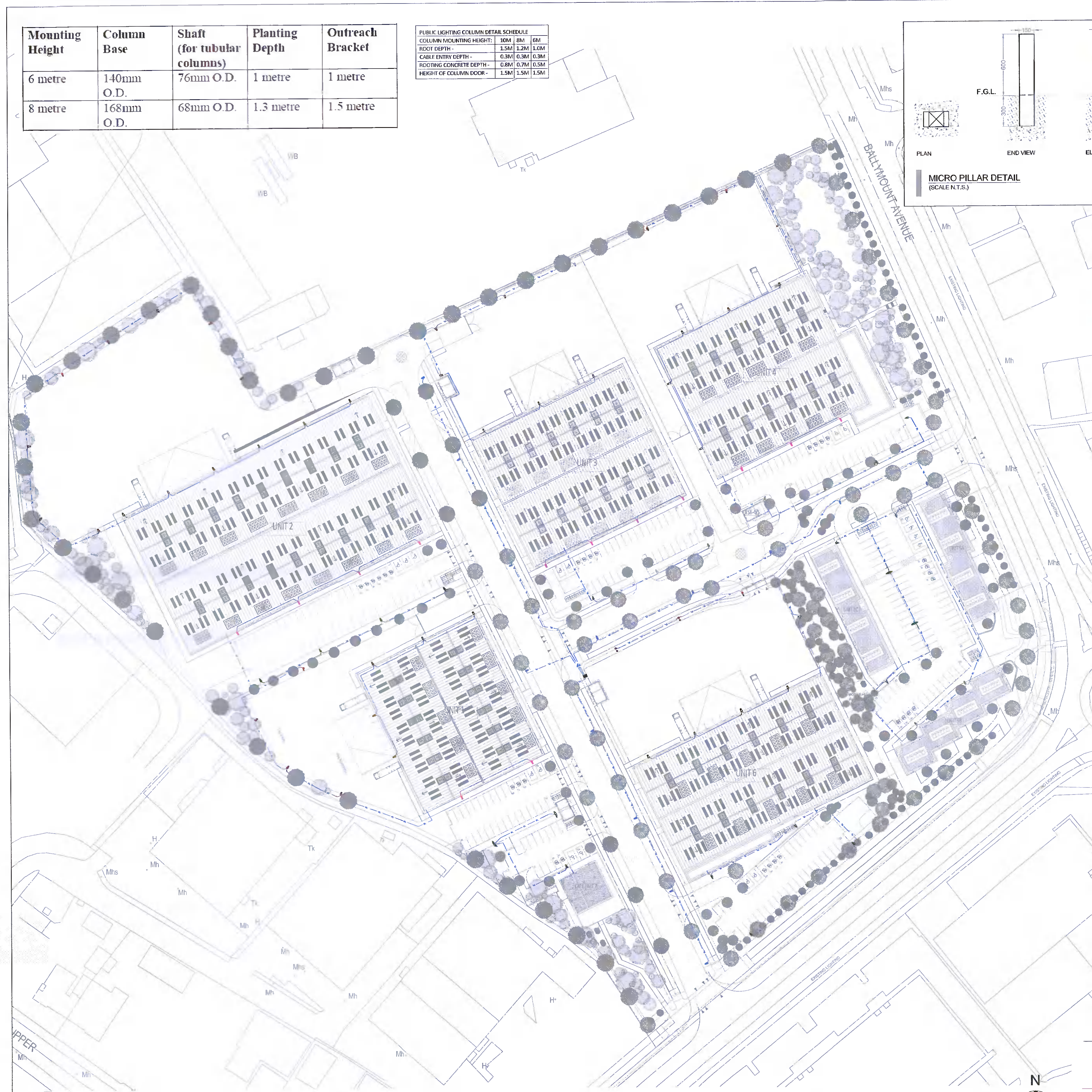
**PUBLIC LIGHTING COLUMN DETAIL SCHEDULE**

COLUMN MOUNTING HEIGHT:	3.0M	3.5M	4.0M
ROOT DEPTH:	1.5M	1.2M	1.0M
CABLE ENTRY DEPTH:	0.3M	0.3M	0.3M
ROOTING CONCRETE DEPTH:	0.8M	0.7M	0.5M
HEIGHT OF COLUMN DOOR:	1.5M	1.5M	1.5M

Mounting Height	Column Base O.D.	Shaft (for tubular columns)	Planting Depth	Outreach Bracket
6 metre	140mm O.D.	76mm O.D.	1 metre	1 metre
8 metre	168mm O.D.	68mm O.D.	1.3 metre	1.5 metre



- MINI PILLAR FOR PUBLIC LIGHTING
  - ESB MIDI PILLAR FOR PUBLIC LIGHTING
  - STREET/EXTERNAL LUMINAIRE (REFER TO EQUIPMENT SCHEDULE & DRAWING LEGEND).
- NOTES:**
- A MAXIMUM OF 4No. CIRCUIT PER MICRO PILLAR
  - A MAXIMUM OF 6No. STREETLIGHT LUMINAIRE FITTINGS PER CIRCUIT.
  - MINI PILLAR TO BE LOCATED AT BACK OF FOOTPATH AND ROOT MOUNTED, OF GALVANISED STEEL CONSTRUCTION TO LOCAL COUNTY COUNCIL SPECIFICATION.
  - MINI PILLAR MUST BE LOCATED A MINIMUM OF 2.0M AWAY FROM AN ESB NETWORKS MINI PILLAR.
  - MINI PILLAR MUST BE LOCATED A MINIMUM OF 10.0M AWAY FROM AN ESB NETWORKS STATION.
  - MINI PILLAR SUPPLIED FROM ESB MIDI PILLAR AS INDICATED.



**SITE PLAN**  
SCALE 1:750