

Calculation Summary
Project: Otrusive Light Calculations

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
House 1_Cd_Seg1	Otrusive - Cd	N.A.	228.13	482	54	0.24	0.11
House 1_III_Seg1	Otrusive - III	Lux	0.00	0	0	N.A.	N.A.
House 2_Cd_Seg1	Otrusive - Cd	N.A.	66.25	178	9	0.14	0.05
House 2_III_Seg1	Otrusive - III	Lux	0.00	0	0	N.A.	N.A.
House 3_Cd_Seg1	Otrusive - Cd	N.A.	26.83	45	12	0.45	0.27
House 3_III_Seg1	Otrusive - III	Lux	0.00	0	0	N.A.	N.A.
House 4_Cd_Seg1	Otrusive - Cd	N.A.	32.92	52	15	0.46	0.29
House 4_III_Seg1	Otrusive - III	Lux	0.00	0	0	N.A.	N.A.

Calculation Summary
Project: Lux Levels

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Mupa	Illuminance	Lux	209.50	341	125	0.60	0.37
Path	Illuminance	Lux	21.06	48	5	0.24	0.10

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description
⊗	4	A	SINGLE	1 x 450w Amnis Flood with WST Optic Mounted @ 8m
⊗	3	C	SINGLE	1 x 15w LED Viva City Pro 4000k 320mA with AY70 Optic @ 3m
⊗	2	B	SINGLE	1 x 450w LED 2700k Amnis Match Flood with NST Optic @ 8m

Notes :-
DO NOT SCALE FROM THIS DRAWING
ANY DISCREPANCIES TO BE REPORTED TO THE CONTRACT ADMINISTRATOR
CONTRACTOR TO CHECK DIMENSIONS ON SITE
DRAWINGS ISSUED WITHOUT STATUS ARE DRAFT ONLY

Otrusive Light - Compliance Report
CIE 150:2017, E3-Medium District Brightness, Pre-Curfew
Filename: NP11 SLH
29/07/2022 15:58:37

Illuminance
Maximum Allowable Value: 10 Lux

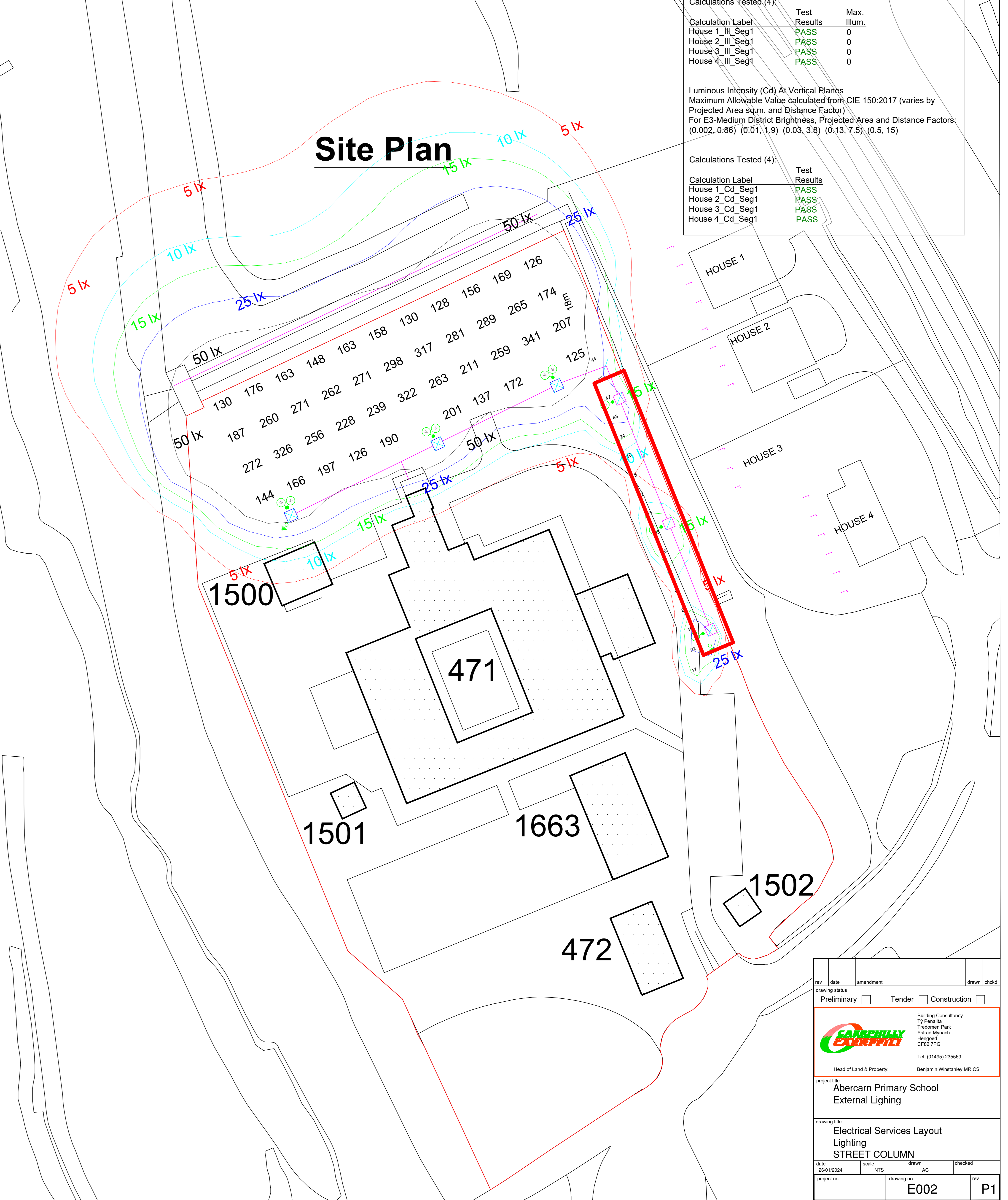
Calculations Tested (4):

Calculation Label	Test Results	Max. Illum.
House 1_III_Seg1	PASS	0
House 2_III_Seg1	PASS	0
House 3_III_Seg1	PASS	0
House 4_III_Seg1	PASS	0

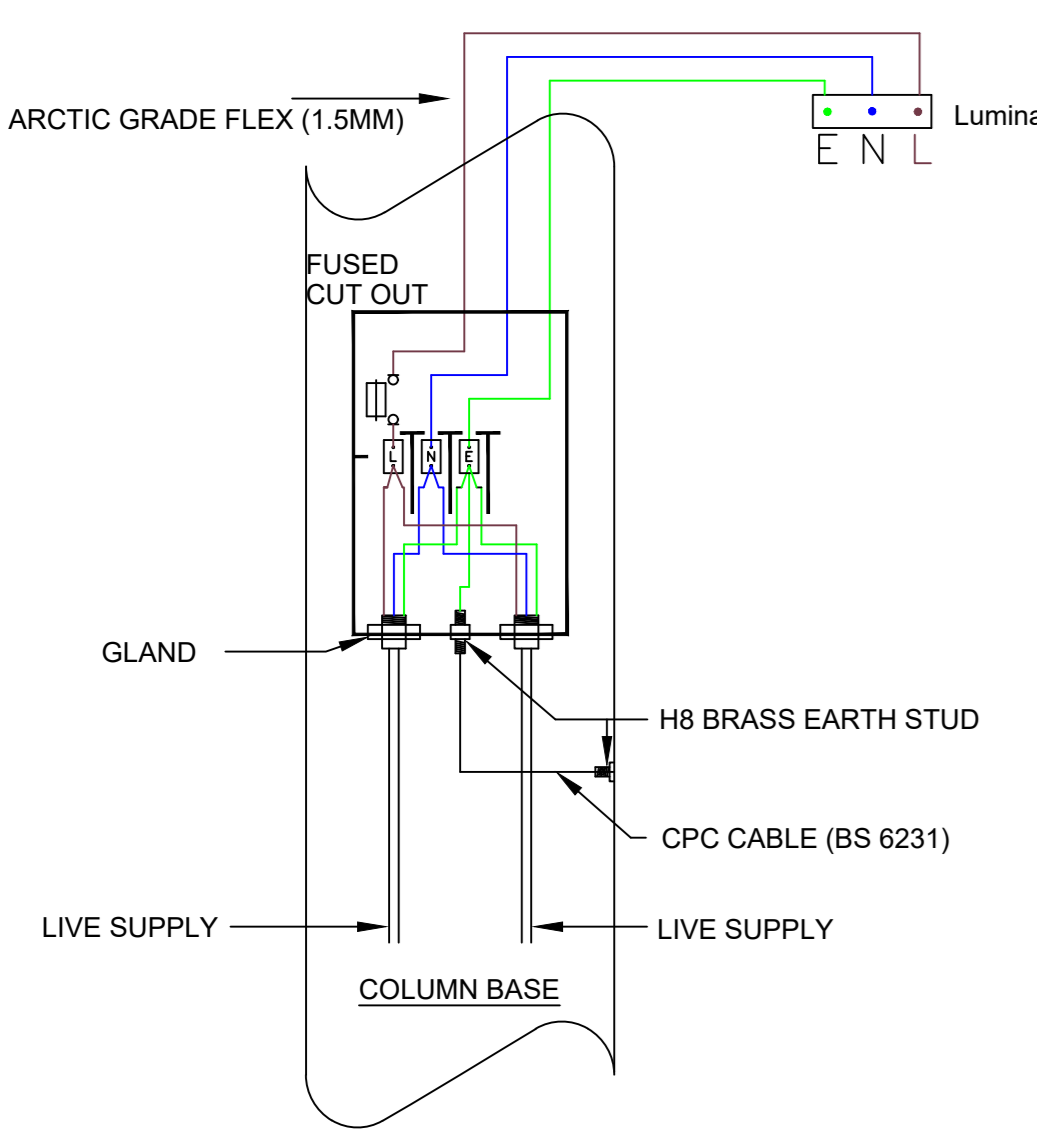
Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value calculated from CIE 150:2017 (varies by Projected Area sq.m. and Distance Factor)
For E3-Medium District Brightness, Projected Area and Distance Factors: (0.002, 0.86) (0.01, 1.9) (0.03, 3.8) (0.13, 7.5) (0.5, 15)

Calculations Tested (4):

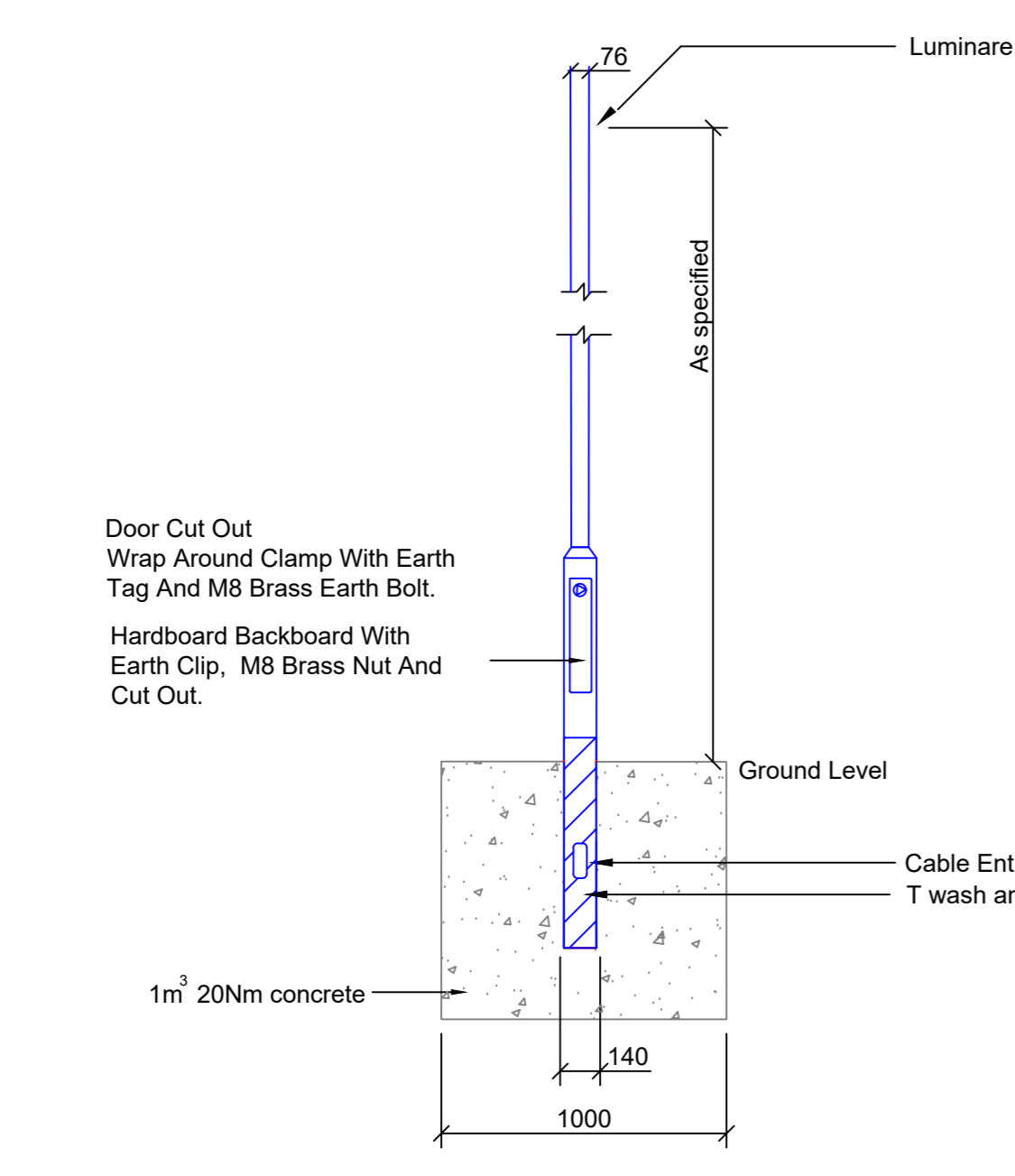
Calculation Label	Test Results
House 1_Cd_Seg1	PASS
House 2_Cd_Seg1	PASS
House 3_Cd_Seg1	PASS
House 4_Cd_Seg1	PASS



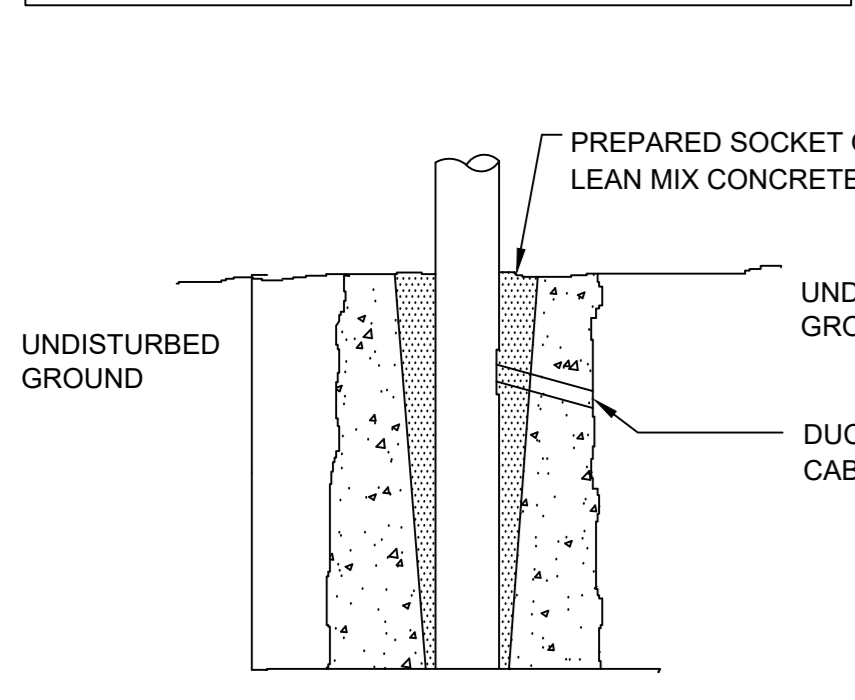
DETAIL A - SITE LIGHTING INTERNAL COLUMN BASE DETAIL



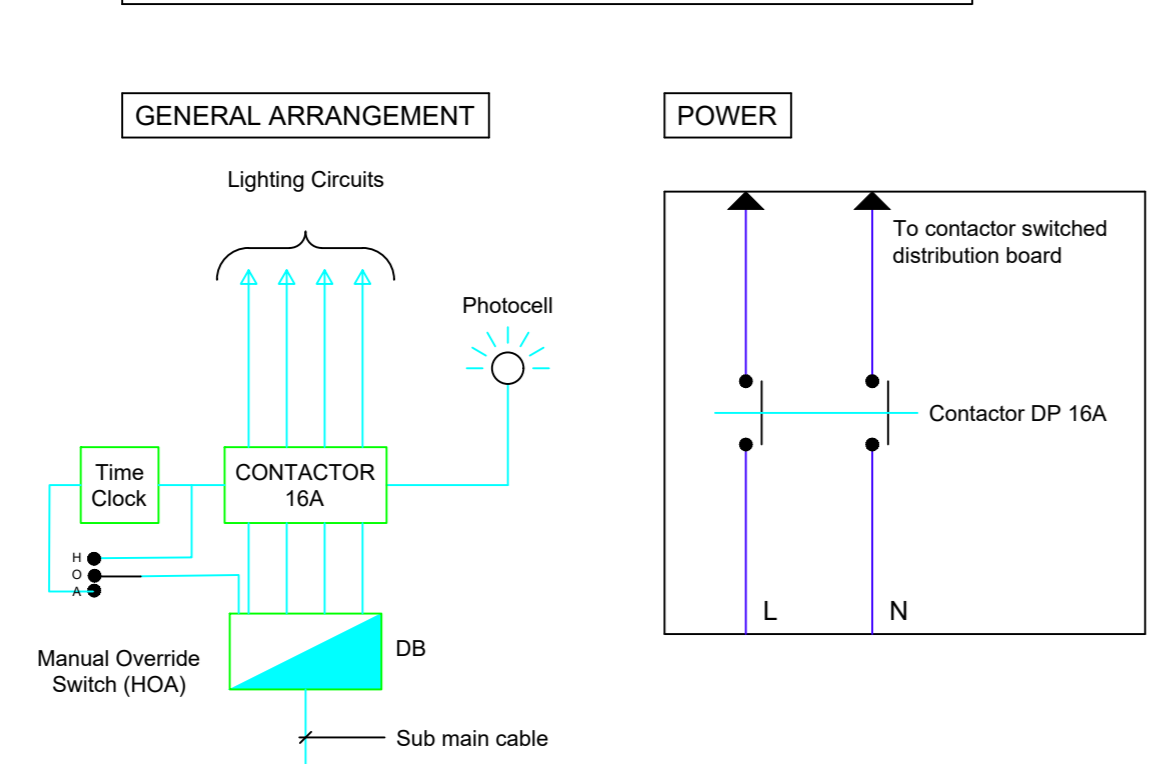
DETAIL 'C' - TYPICAL LIGHTING COLUMN FOUNDATION DETAILS



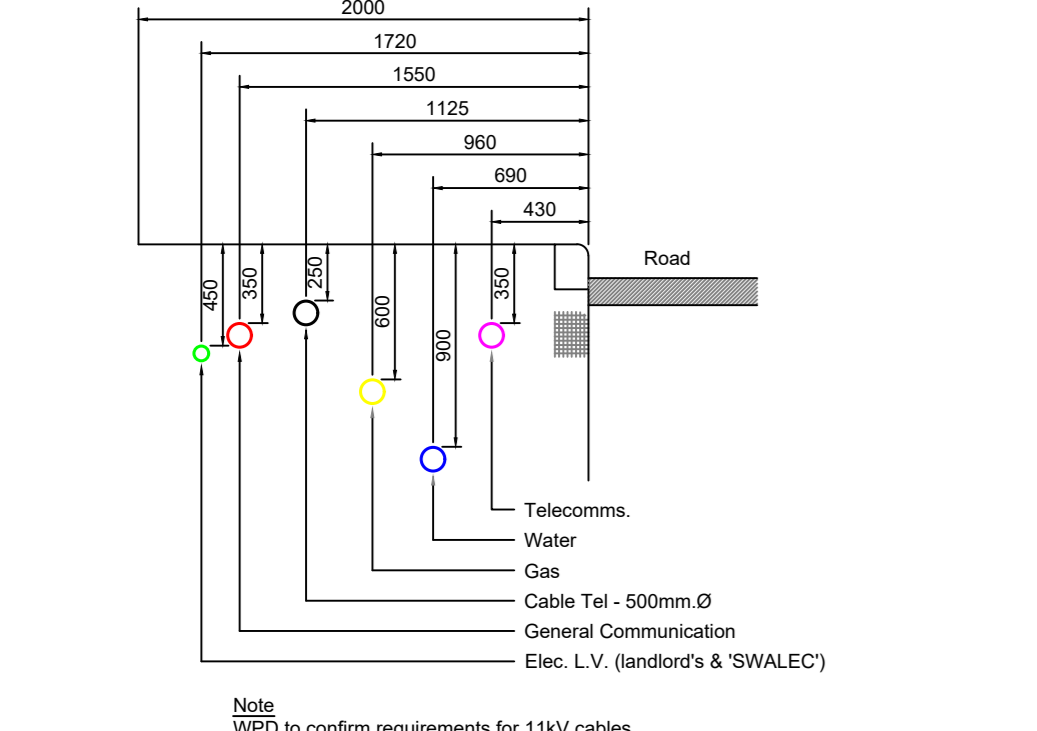
DETAIL B - SITE LIGHTING COLUMN BASE DETAIL



DETAIL D - EXTERNAL LIGHTING CONTROL



DETAIL E - TYPICAL ARRANGEMENT OF MAINS IN FOOTPATH / CARPARK



- Legend**
- ⊗ LIGHT FITTING - SEE LIGHTING SCHEDULE
 - CABLE ROUTE - BURIED / DUCTED AS PER SPECIFICATION.
 - ⊗ 8m Lighting Column (Wind down)
 - ⊗ 3m Lighting Column
 - ⊗ End of line Earth Rod
 - ⊗ Caution - Existing Underground Services

Notes
All Works on this drawings must comply with the relevant CLAW Specifications.

rev	date	amendment	drawn	checked
drawing status: Preliminary <input type="checkbox"/> Tender <input type="checkbox"/> Construction <input type="checkbox"/>				
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Head of Land & Property: Benjamin Winstanley MRICS				
project title: Abercorn Primary School External Lighting				
drawing title: Electrical Services Layout Lighting STREET COLUMN				
date	scale	NTS	drawn	checked
20/01/2024			AC	
project no.	drawing no.		rev	
	E002		P1	