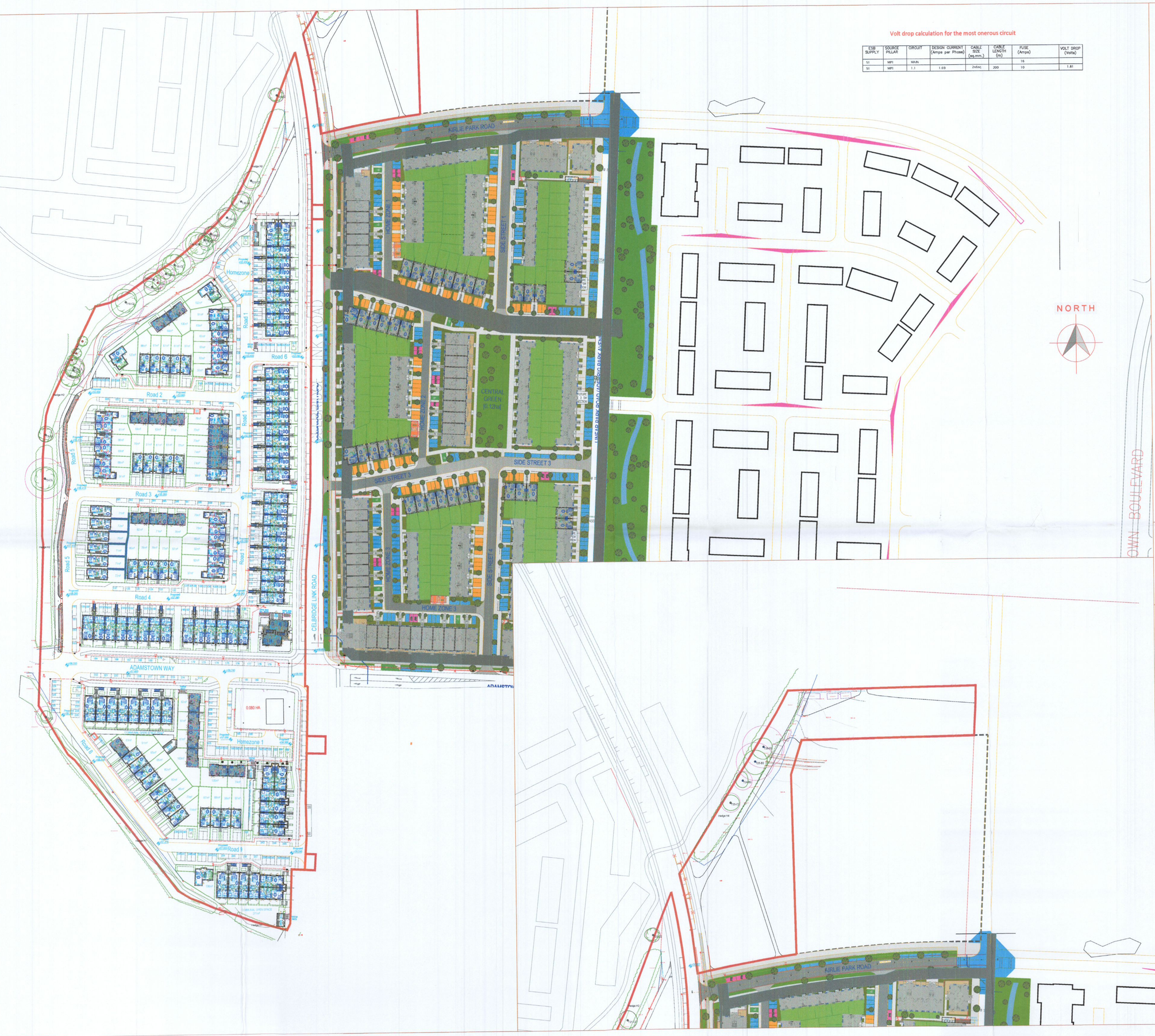
Volt drop calculation for the most onerous circuit

ESB SUPPLY	SOURCE PILLAR	CIRCUIT	DESIGN CURRENT (Amps per Phase)	CABLE SIZE (sq.mm.)	CABLE LENGTH (m)	FUSE (Amps)	VOLT DROP (Volts)
3Ø	MP1	MAIN				16	
3Ø	MP1	1.1	1.6/9	2x6sq	200	10	1.81



TYPE A COLUMN DETAILS

HEIGHT	:	6m
BRACKET LENGTH	:	Post-top
INCLINATION	:	0 Degrees
COLUMN QUANTITY	:	54

LANTERN DETAILS

AVERAGE WATTAGE (CLO)	:	17w LED
MAKE & MODEL	:	C.U.Phosco P852-12-P4-NW-CB0400

TYPE B COLUMN DETAILS

HEIGHT	:	6m ABACUS Raise & lower type
BRACKET LENGTH	:	Post-top
INCLINATION	:	0 Degrees
COLUMN QUANTITY	:	11

LANTERN DETAILS

AVERAGE WATTAGE (CLO)	:	9w LED
MAKE & MODEL	:	C.U.Phosco P852-12-R3B-NW-CB0200

TYPE C COLUMN DETAILS

HEIGHT	:	6m
BRACKET LENGTH	:	Post-top
INCLINATION	:	0 Degrees
COLUMN QUANTITY	:	1

LANTERN DETAILS

AVERAGE WATTAGE (CLO)	:	25w LED
MAKE & MODEL	:	C.U.Phosco P852-12-F2-NW-CB0650

TYPE D COLUMN DETAILS

HEIGHT	:	10m
BRACKET LENGTH	:	Post-top
INCLINATION	:	0 Degrees
COLUMN QUANTITY	:	24

LANTERN DETAILS

AVERAGE WATTAGE (CLO)	:	64w LED

Notes:
All LED lanterns must have Constant Light Output (CLO).
Automatically dimmed to 75% each night from 12 midnight to 6am.
(U14 Profile)
All lanterns to have 7pin NEMA sockets fitted.
Electronic Photocells switched at 35/18lux
All columns, luminaires, cable and pillars, shall comply with Local Authority General Specification for Public Lighting.
No trees to be located within falling distance of P/L columns.
Minimum set-back of columns is 600mm from face of kerb.

Public lighting cable chamber as per Local Authority P/L Dept. specification.

2X6sq NYCY cable laid in ducting to I.S.10101:2020.
Single wall ducting, colour red to be used manufactured from high density polyethylene (H.D.P.E.).
107mm external diameter, having a wall thickness of 5mm.
This ducting to have the words "Street Lighting" stamped on, letter size 9mm at 1m intervals. The lettering to face uppermost in the trench. All works to Local Authority specification.
This is a circuit layout and not indicative of where ducts are to be laid.

Public Lighting Pillar (located at least 2m from ESB pillar)

Sabre
ELECTRICAL SERVICES LTD.
Specialist Contractors
PUBLIC LIGHTING - FLOOD LIGHTING - SPORTS LIGHTING

UNIT 11,
BELLVUE INDUSTRIAL ESTATE,
FINGLAS,
DUBLIN 11.
E - MAIL: graham@sabrelighting.ie PH: 01-811 0875

REV	DESCRIPTION	INITS	CHK'D	DATE
-	?	GS	CHK	----------
-	?	GS	CHK	----------
-	?	GS	CHK	----------
-	?	GS	CHK	----------
-	?	GS	CHK	----------
-	?	GS	CHK	----------
-	?	GS	CHK	----------

CLIENT/CUSTOMER
Quintain Ireland

PROJECT
Aderrig Phase 3

TITLE
Public Lighting ISOLUX

DRAWN	SCALE	DATE
G.S	1:1000@a1	30-09-22
DRAWING NUMBER		ISSUE
SES 14322		1

BASE DRAWING NUMBER: edit
DRAWING ORIGIN: edit

DO NOT SCALE FROM THIS DRAWING