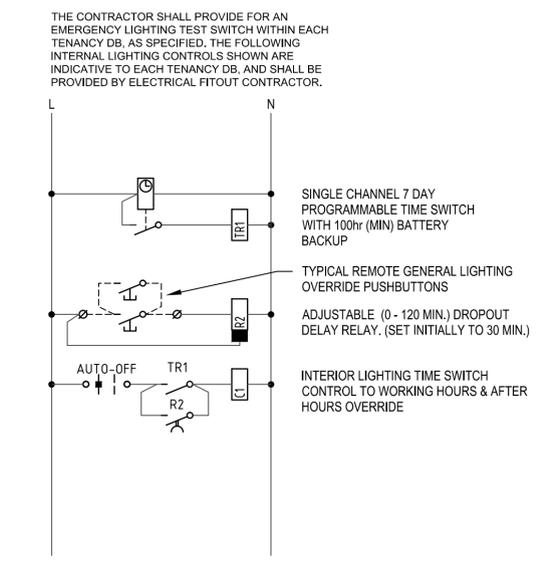
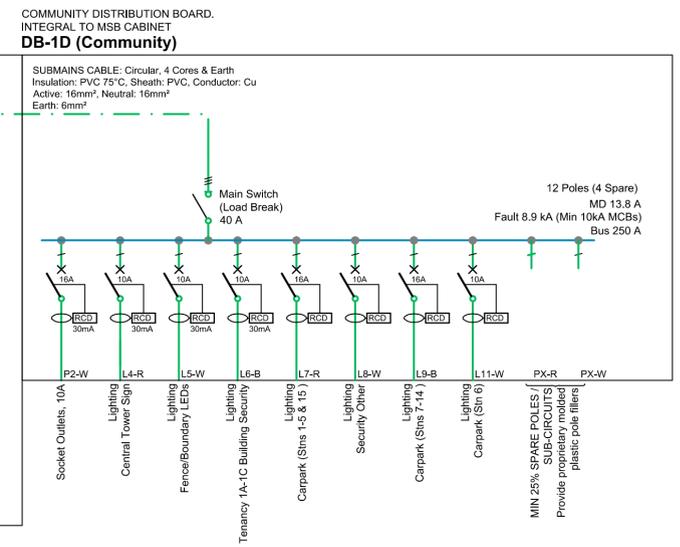
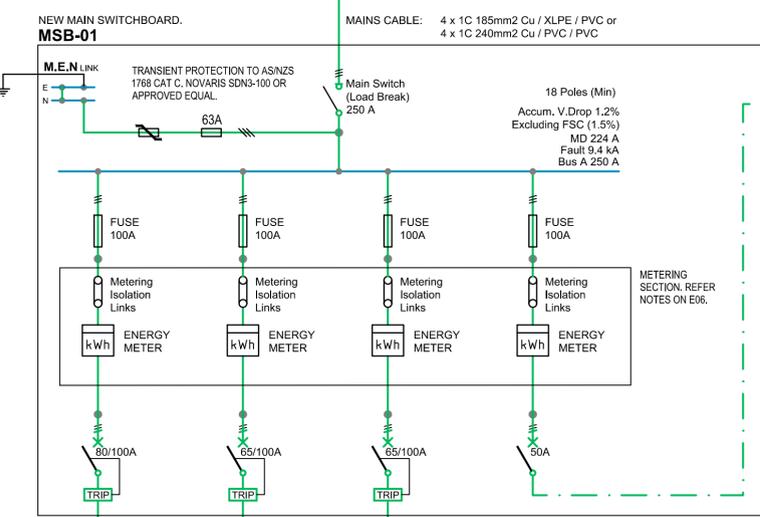


ERAGON SUBSTATION
 PADMOUNT TFR (500 kVA?) BEHIND BCF
 SUB No. 9204 / 13197

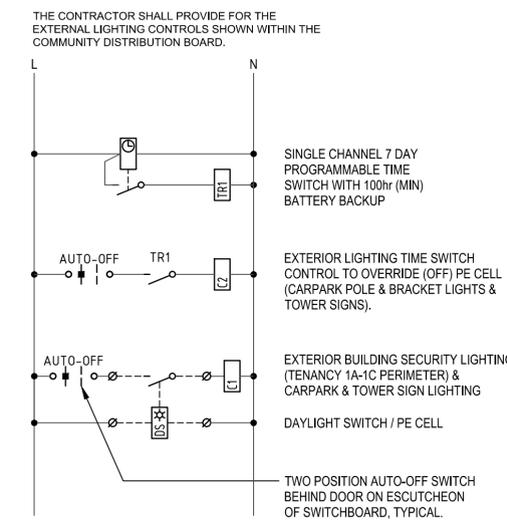
L.V. Terminals 400 V
 I_{sc} = 19.6 kA

EXISTING ERAGON 125A FUSES (SUPPLY TO CARWASH) STAGE 1 - UPGRADE TO 160A
 STAGE 2 - UPGRADE TO 250A (MAY REQUIRE TFR UPGRADE)

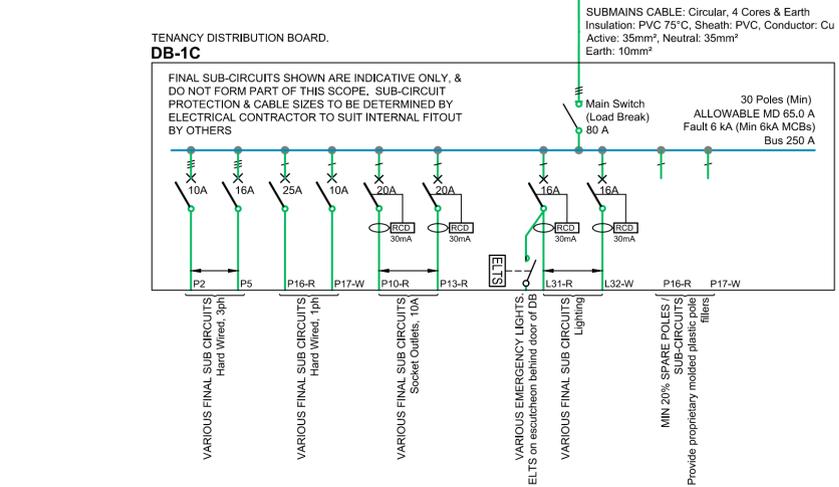
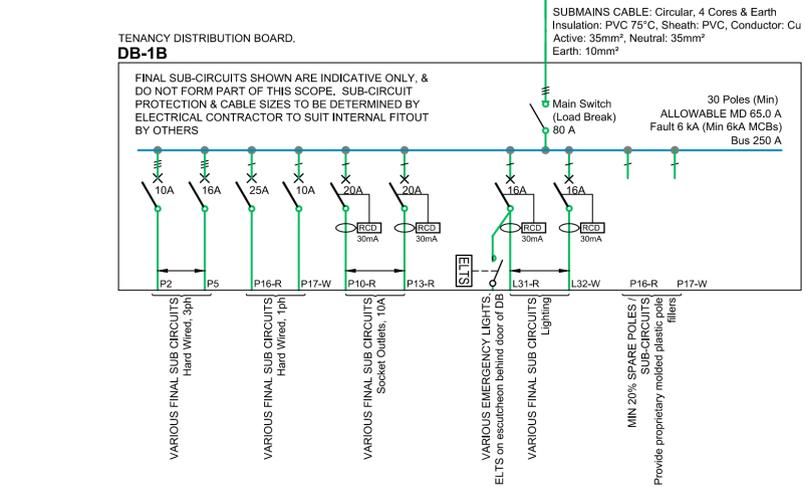
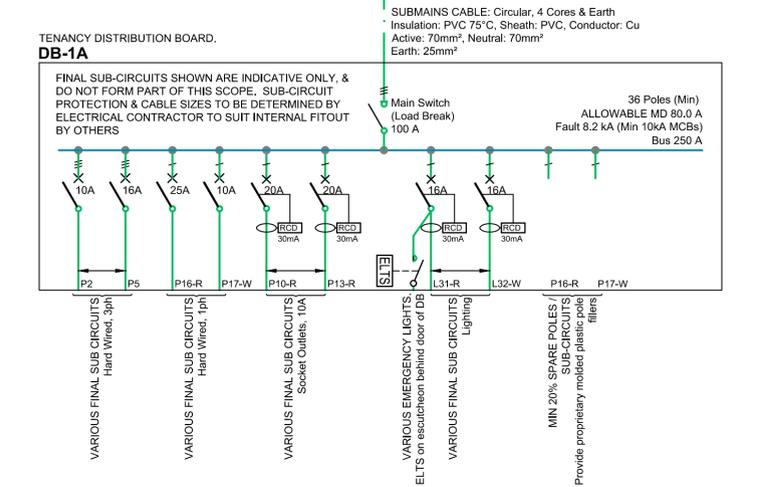
MAINS CABLE: 4 x 1C 185mm² Cu / XLPE / PVC or 4 x 1C 240mm² Cu / PVC / PVC



TYPICAL INTERNAL LIGHTING CONTROL
 (TENANCY DB-1A, 1B & 1C)



TYPICAL EXTERNAL LIGHTING CONTROL
 (COMMUNITY DB-1D)



BOARD REF: MSB-01		LOCATION: NORTH EAST CORNER OF NEW TENANCY 1A-1C COMPLEX											
CIRCUIT No.	PHASE	LOAD DESCRIPTION	PROTECTIVE DEVICE				CABLE				COMMENTS		
			TYPE	RATING	TRIP	TRIP UNIT	SIZE	INSUL	SHEATH	CONDUCTOR	TYPE		
BUS: A		R Phase: MD 224 Amps W Phase: MD 224 Amps B Phase: MD 224 Amps										9.4 kA	18 Poles
2	R	FUSE	100A										
5	W	FUSE	100A										
8	B	FUSE	100A										
11	R	FUSE	80A										
BUS: B		R Phase: MD 80 Amps W Phase: MD 80 Amps B Phase: MD 80 Amps										9.4 kA	3 Poles
2	W	MCCB	63-100A	96A	100	70mm ²	PVC 75°C	PVC	Cu	Circ. 4CAE	Earth: 25mm ²		
BUS: C		R Phase: MD 65 Amps W Phase: MD 65 Amps B Phase: MD 65 Amps										9.4 kA	3 Poles
5	W	MCCB	63-100A	62A	63	35mm ²	PVC 75°C	PVC	Cu	Circ. 4CAE	Earth: 10mm ²		
BUS: D		R Phase: MD 65 Amps W Phase: MD 65 Amps B Phase: MD 65 Amps										9.4 kA	3 Poles
8	W	MCCB	63-100A	63A	100	35mm ²	PVC 75°C	PVC	Cu	Circ. 4CAE	Earth: 10mm ²		
BUS: E		R Phase: MD 13.4 Amps W Phase: MD 13.4 Amps B Phase: MD 13.8 Amps										9.4 kA	3 Poles
11	W	MCB	50A			16mm ²	PVC 75°C	PVC	Cu	Circ. 4CAE	Earth: 6mm ²		

Note: Unless stated otherwise, active, neutral and earth conductors are all the same size.

MSB-01 PROTECTION & CABLE SCHEDULE
 MAXIMUM DEMAND & BUS NUMBERS INDICATIVE ONLY

BOARD REF: DB-1D (Community)		R Phase: MD 13.4 Amps W Phase: MD 13.4 Amps B Phase: MD 13.8 Amps										8.9 kA	12 Poles
CIRCUIT No.	PHASE	LOAD DESCRIPTION	PROTECTIVE DEVICE				CABLE				COMMENTS		
			TYPE	RATING	TRIP	TRIP UNIT	SIZE	INSUL	SHEATH	CONDUCTOR	TYPE		
1	R	SPARE											
2	W	Socket Outlets, 10A	RCD	20A	30mA	2.5mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE			
3	B	SPARE											
4	R	Lighting - SIGN	RCD	16A	30mA	2.5mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE			
5	W	Lighting - FENCE / BOUNDARY LEADS	RCD	16A	30mA	6mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE	Earth: 2.5mm ²		
6	B	Lighting - BUILDING SECURITY 1	RCD	16A	30mA	2.5mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE			
7	R	Lighting - CARPARK LIGHTS (STNS 1-5 & 15)	RCD	16A	30mA	16mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE	Earth: 6mm ²		
8	W	Lighting - BUILDING SECURITY 2	RCD	16A	30mA	2.5mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE			
9	B	Lighting - CARPARK LIGHTS (STNS 7-14)	RCD	16A	30mA	18mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE	Earth: 6mm ²		
10	R	SPARE											
11	W	Lighting - CARPARK LIGHT (STN 6)	RCD	16A	30mA	2.5mm ²	PVC 90°C	PVC	Cu	Circ. 2CAE			
12	B	SPARE											

Note: Unless stated otherwise, active, neutral and earth conductors are all the same size.

Upstream Spk Bus: MSB-01 (Bus E)

COMMUNITY DB PROTECTION & CABLE SCHEDULE