

Martello Café & Public Toilets, Seaford

Building Engineering Services – Electrical Equipment Schedules

SCOPE OF WORKS - APPENDIX 2

Suitability: D2
Revision: P03
Ref: 21060-DGE-XX-XX-SP-E-3200

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General Document Notes




These notes are to be read in conjunction with the electrical schedules herein, and all other associated documentation.





1. Where luminaires have an "E" suffix, as detailed on the accompanying drawings, the fitting shall be supplied complete with integral 3hr emergency battery provision, unless powered from the central battery system.
2. All illuminated exit signage legends and directional arrows shall comply with BS EN ISO 7010.
3. The contractor shall allow to provided samples of all accessories and luminaires to the design team for review prior to installation.
4. The contractor shall liaise with the architect prior to procuring any luminaires to confirm the final fixture colour.
5. Where RCD protection is detailed as a requirement, this shall be achieved by means of RCBO's unless otherwise stated.

Luminaire Schedule

schedule ref

21060-DGE-XX-XX-SH-E-3201

Ref	Image	Luminaire Lumen Output (lm)	Watts (W)	Eff. (lm/W)	Dimming; (DALI, DSI, etc.)	Clr. Temp.	Rating		CRI	UGR	Dims (mm)	Manufacturer & Reference	Comments
							IP	IK					
Internal Lighting													
A		4530	35.2	129	Non-dimmable	4000K	66	08	>80	-	1100 x 92 x 90	Thorn Lighting, Aquaforce Pro S	
B		2037	17.7	115	Non-dimmable	4000K	66	20	>80	-	455 Ø x 115	Designplan lighting, Basilica	Complete with integral presence detection. In smooth white finish.
C		1400	11.7	120	Non-dimmable	4000K	65	10	>80	-	307 Ø x 58	Thorn Lighting, Katona	Complete with integral presence detection.

Ref	Image	Luminaire Lumen Output (lm)	Watts (W)	Eff. (lm/W)	Dimming; (DALI, DSI, etc.)	Clr. Temp.	Rating		CRI	UGR	Dims (mm)	Manufacturer & Reference	Comments
							IP	IK					
E		-	4	-	Non-dimmable	-	40	-	-	-	327 x 65 x 197	Thorn Lighting, Voyager Sigma	Complete with legend, in silver finish.
E1		130	4	-	Non-dimmable	-	40	-	-	-	146 x 146 x 34	Thorn Lighting, Voyager Star	Surface mounted with open area optic, in silver finish.
External Lighting													
X1		363.6	6	60.6	Non-dimmable	4000K	66	10++	>80	-	260 x 134 x 130	Thorlux Lighting, Realta Micro	Where emergency version required these shall be non-maintained with integral battery. Complete with coastal protection for installation at seafront location.
L1		250 – 460	14	-	Non-dimmable	5500K	67	-	>90	-	15 x 15mm	Atmospheric Zone, Top View 1515 LumiFlex	Single colour output. Complete with all power packs and required fixings to achieve Architectural details.

Distribution Board Schedules

Cable Type References

A	=	LSF Single Core
B	=	LSF/XLPE Multi Core
C	=	LSF/XLPE/SWA Multi Core
D	=	Enhanced fire-resisting FP 200 rated
E	=	LSF Twin & Earth, 6242B

Cables marked with a * shall be contactor controlled circuits.

Distribution Board Schedules

schedule ref

19069-DGE-XX-XX-SH-E-3204

Ref: **DB1** Size: 2 + 16 way Rating: 250A Type: MCB /RCBO
 Location: Elec Intake hybrid TP&N

Circ	Phase	Prot'Ve Device (A)	Prot'Ve Device Type	Cable Size (mm ²)	Cable Type	Prot'Ve Cond'tr (mm ²)	Ring / Radial (Rg/Rd)	RCD / RCBO	Description
High Load MCB Section									
1	L1	100	C	25.0	C	25.0	Rd	N	Sub-main to DB 2
1	L2								
1	L3								
2	L1								
2	L2								
2	L3								
Standard MCB Section									
3	L1	16	B	2.5	E	Integral	Rd	Y	Hoist
3	L2	16	B	2.5	E	Integral	Rd	Y	Changing bench
3	L3	16	B	2.5	E	Integral	Rd	Y	Wash basin
4	L1	16	B	2.5	E	Integral	Rd	Y	Toilet
4	L2	50	B	16	E	Integral	Rd	Y	Electric shower
4	L3	16	B	2.5	D	Integral	Rd	Y	WC alarm
5	L1	16	C	2.5	E	Integral	Rd	Y	Cat 5 water booster
5	L2	16	B	2.5	E	Integral	Rd	Y	Water heater *
5	L3	16	B	2.5	E	Integral	Rd	Y	Water conditioner
6	L1	16	B	2.5	E	Integral	Rd	Y	Radiant Panels 1 *
6	L2								
6	L3	16	B	2.5	E	Integral	Rd	Y	Sensor taps
7	L1	16	B	2.5	D	Integral	Rd	Y	WC alarm
7	L2	32	B	2.5	E	Integral	Rg	Y	Hand dryers 1
7	L3	32	B	2.5	E	Integral	Rg	Y	Hand dryers 2
8	L1	32	B	2.5	E	Integral	Rg	Y	Hand dryers 3
8	L2	32	B	2.5	E	Integral	Rg	Y	Hand dryers 4
8	L3	10	C	1.5	E	Integral	Rd	Y	Changing rooms lighting
9	L1	10	C	1.5	E	Integral	Rd	Y	WC lighting
9	L2	10	C	1.5	E	Integral	Rd	Y	External lighting
9	L3	16	B	2.5	E	Integral	Rd	Y	Trace Heating
10	L1	16	C	2.5	C	2.5	Rd	N	Toilet Extract Fan
10	L2	32	C	10.0	C	10.0	Rd	N	External Ltg & Concessions Stand
10	L3								
11	L1								
11	L2								
11	L3								

Circ	Phase	Prot've Device (A)	Prot've Device Type	Cable Size (mm ²)	Cable Type	Prot've Cond'tr (mm ²)	Ring / Radial (Rg/Rd)	RCD / RCBO	Description
12	L1								
12	L2								
12	L3								
13	L1								
13	L2								
13	L3								
14	L1								
14	L2								
14	L3								
15	L1								
15	L2								
15	L3								
16	L1								
16	L2								
16	L3								
17	L1								
17	L2								
17	L3								
18	L1								
18	L2								
18	L3								

Distribution Board Schedules

schedule ref

19069-DGE-XX-XX-SH-E-3204

Ref: **DB2** Size: 18 way Rating: 125A Type: MCB /RCBO
 Location: Kitchen TP&N

Circ	Phase	Prot've Device (A)	Prot've Device Type	Cable Size (mm ²)	Cable Type	Prot've Cond'tr (mm ²)	Ring / Radial (Rg/Rd)	RCD / RCBO	Description
1	L1	32	B	2.5	E	Integral	Rg	Y	Power in cafe
1	L2	32	B	2.5	E	Integral	Rg	Y	Power in kitchen
1	L3	16	B	2.5	E	Integral	Rd	Y	Power for roller shutters
2	L1	16	C	2.5	E	Integral	Rd	Y	Power for fcu
2	L2	16	C	2.5	E	Integral	Rd	Y	Power for AHU
2	L3	16	B	2.5	E	Integral	Rd	Y	Water heater *
3	L1	16	B	2.5	E	Integral	Rd	Y	Water conditioner
3	L2	16	B	2.5	E	Integral	Rd	Y	Intruder alarm
3	L3	16	B	2.5	D	Integral	Rd	Y	Fire alarm panel
4	L1	20	C	4.0	C	4.0	Rd	N	Condensor
4	L2								
4	L3								
5	L1	10	C	1.5	E	Integral	Rd	Y	Café Emergency lighting
5	L2								
5	L3								
6	L1	20	D	4.0	C	4.0	Rd	N	Kitchen Extract AHU
6	L2			4.0					
6	L3			4.0					
7	L1								
7	L2								
7	L3								
8	L1								
8	L2								
8	L3								
9	L1								
9	L2								
9	L3								
10	L1								
10	L2								
10	L3								
11	L1								
11	L2								
11	L3								
12	L1								
12	L2								

Circ	Phase	Prot've Device (A)	Prot've Device Type	Cable Size (mm ²)	Cable Type	Prot've Cond'tr (mm ²)	Ring / Radial (Rg/Rd)	RCD / RCBO	Description
12	L3								
13	L1								
13	L2								
13	L3								
14	L1								
14	L2								
14	L3								
15	L1								
15	L2								
15	L3								
16	L1								
16	L2								
16	L3								
17	L1								
17	L2								
17	L3								
18	L1								
18	L2								
18	L3								