

Electrical
Technical Schedules
(Forms Section 15 of the Specification)

Piccadilly Warehouse
Manchester

Beech Design & Build

Issued For Tender
Date: 16/04/21

Revision T1

Parker Wilson Consulting
Burnham House
373 Bury New Road
Manchester
M25 1AW

T: 00 44(0)161 773 1177
F: 00 44 (0)161 773 9977

E: manchester@parker-wilson.co.uk

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Parker Wilson Consulting
2nd Floor
72 Cannon Street
London
EC4N 6AE

T: 00 44 (0) 207 251 4500
E: london@parker-wilson.co.uk

REVISION INFORMATION



REVISION	DATE	SECTION	DESCRIPTION
T1	16/04/2021	ALL	ISSUED FOR TENDER

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2.0 Luminaire Schedule

DISTRIBUTION BOARD			SB-01		12-WAY			REV	T1	ISSUED	DATE				
REFERENCE								PREPARED BY & DATE:		DM	16/04/2021				
Integral Isolator rating			400A					CHECKED BY & DATE:		AL	16/04/2021				
CIRCUIT NO	Load Details				MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE				
	Description			CCT Type	RATING	Type	RCD								
1	L1	DB-T-1			L	125A	-	N/A	50	F	-	3			
	L2														
	L3														
2	L1	DB-L-1			L	63A	-	N/A	16	F	-	3			
	L2														
	L3														
3	L1	Fire Alarm Panel			L	6A	-	-	2.5	G	2.5	5			
	L2	SPARE													
	L3	SPARE													
4	L1	DB-T-2			L	125A	-	N/A	50	F	-	3			
	L2														
	L3														
5	L1	Hot Water Cylinder 01			L	63A	-	-	10.0	F	10.0	3			
	L2														
	L3														
6	L1	SURGE PROTECTION													
	L2														
	L3														
7	L1	DB-T-3			L	125A	-	N/A	50	F	-	3			
	L2														
	L3														
8	L1	DB-T-4			L	125A	-	N/A	50	F	-	3			
	L2														
	L3														
9	L1	DB-L-B			L	63A	-	N/A	16	F	-	3			
	L2														
	L3														
10	L1	DB-L-R			L	63A	-	N/A	16	F	-	3			
	L2														
	L3														
11	L1	SPARE													
	L2												SPARE		
	L3												SPARE		
12	L1	SPARE													
	L2												SPARE		
	L3												SPARE		
FEEDER CABLE		95mm² 1x1x4C XLPE/SWA/LSF CABLE													

Notes

1. Where RCD's are indicated single module combined MCB/RCD units shall be provided

PHASE CABLE TYPES

A = PVC SINGLES IN TRUNKING / CONDUIT
 B = LSF TWIN AND EARTH CABLE
 C = LSF SINGLES IN TRUNKING / CONDUIT
 D = PVC/SWA/PVC MULTICORE
 E = XLPE/SWA/PVC MULTICORE
 F = XLPE/SWA/LSF MULTICORE
 G = CWZ/LSF
 H = UNARMoured MULTICORE

CIRCUIT PROTECTIVE CONDUCTOR TYPES

1 = PVC SINGLE
 2 = LSF SINGLE
 3 = CABLE ARMOUR
 4 = CABLE CORE
 5 = MICC SHEATH

CIRCUIT TYPE X = RING
 L = RADIAL

DISTRIBUTION BOARD		DB-T-1	8-Way				REV	T1	ISSUED	DATE
REFERENCE							PREPARED BY & DATE:		DM	16/04/2021
Integral Isolator rating		125A				CHECKED BY & DATE:		AL	16/04/2021	
CIRCUIT NO.	Load Details			MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE
	Description	CCT Type	RATING	Type	RCD					
1	L1	CU-001	L	63A	B	-	16	F	-	3
	L2	CU-002	L	63A	B	-	16	F	-	3
	L3	CU-003	L	63A	B	-	16	F	-	3
2	L1	CU-004	L	63A	B	-	16	F	-	3
	L2	CU-005	L	63A	B	-	16	F	-	3
	L3	CU-006	L	63A	B	-	16	F	-	3
3	L1	CU-007	L	63A	B	-	16	F	-	3
	L2	CU-008	L	63A	B	-	16	F	-	3
	L3	CU-009	L	63A	B	-	16	F	-	3
4	L1	CU-010	L	63A	B	-	16	F	-	3
	L2	SPARE								
	L3	SPARE								
5	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
6	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
7	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
8	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
LOCATION OF BOARD										
Ground Floor Plant Room										
BOARD FED FROM:										
SB-01										
FEEDER CABLE	50mm² 1x1x4C XLPE/SWA/LSF CABLE									

Notes

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A = PVC SINGLES IN TRUNKING / CONDUIT
 B = LSF TWIN AND EARTH CABLE
 C = LSF SINGLES IN TRUNKING / CONDUIT
 D = PVC/SWA/PVC MULTICORE
 E = XLPE/SWA/PVC MULTICORE
 F = XLPE/SWA/LSF MULTICORE
 G = ENHANCED
 H = UNARMoured MULTICORE

CIRCUIT PROTECTIVE CONDUCTOR TYPES

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DISTRIBUTION BOARD		DB-T-2		8-Way			REV	T1	ISSUED	DATE
REFERENCE							PREPARED BY & DATE:		DM	16/04/2021
Integral Isolator rating		125A					CHECKED BY & DATE:		AL	16/04/2021
CIRCUIT NO.	Load Details			MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE
	Description	CCT Type	RATING	Type	RCD					
1	L1	CU-0011	L	63A	B	-	16	F	-	3
	L2	CU-0012	L	63A	B	-	16	F	-	3
	L3	CU-0013	L	63A	B	-	16	F	-	3
2	L1	CU-0014	L	63A	B	-	16	F	-	3
	L2	CU-0015	L	63A	B	-	16	F	-	3
	L3	SPARE								
3	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
4	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
5	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
6	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
7	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
8	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
LOCATION OF BOARD										
Ground Floor Plant Room										
BOARD FED FROM:										
SB-01										
FEEDER CABLE	50mm² 1x1x4C XLPE/SWA/LSF CABLE									

Notes

1. Where RCD's are indicated single module combined MCB/RCD units shall be provided

PHASE CABLE TYPES

A = PVC SINGLES IN TRUNKING / CONDUIT
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CIRCUIT PROTECTIVE CONDUCTOR TYPES

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CIRCUIT TYPE X = RING
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DISTRIBUTION BOARD		DB-T-3		8-Way			REV	T1	ISSUED	DATE
REFERENCE							PREPARED BY & DATE:		DM	
Integral Isolator rating		125A					CHECKED BY & DATE:		AL	16/04/2021
CIRCUIT NO.	Load Details			MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE
	Description	CCT Type	RATING	Type	RCD					
1	L1	CU-0016	L	63A	B	-	16	F	-	3
	L2	CU-0017	L	63A	B	-	16	F	-	3
	L3	CU-0018	L	63A	B	-	16	F	-	3
2	L1	CU-0019	L	63A	B	-	16	F	-	3
	L2	CU-0020	L	63A	B	-	16	F	-	3
	L3	SPARE								
3	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
4	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
5	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
6	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
7	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
8	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
LOCATION OF BOARD										
Ground Floor Plant Room										
BOARD FED FROM:										
SB-01										
FEEDER CABLE	50mm² 1x1x4C XLPE/SWA/LSF CABLE									

Notes

- Where RCD's are indicated single module combined MCB/RCD units shall be provided

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CIRCUIT TYPE X = RING
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DISTRIBUTION BOARD		DB-T-4		8-Way			REV	T1	ISSUED	DATE
REFERENCE							PREPARED BY & DATE:		DM	16/04/2021
Integral Isolator rating		125A					CHECKED BY & DATE:		AL	16/04/2021
CIRCUIT NO.	Load Details			MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE
	Description	CCT Type	RATING	Type	RCD					
1	L1	CU-0021	L	63A	B	-	16	F	-	3
	L2	CU-0022	L	63A	B	-	16	F	-	3
	L3	CU-0023	L	63A	B	-	16	F	-	3
2	L1	CU-0024	L	63A	B	-	16	F	-	3
	L2	CU-0025	L	63A	B	-	16	F	-	3
	L3	SPARE								
3	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
4	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
5	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
6	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
7	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
8	L1	SPARE								
	L2	SPARE								
	L3	SPARE								
LOCATION OF BOARD										
Ground Floor Plant Room										
BOARD FED FROM:										
SB-01										
FEEDER CABLE	50mm² 1x1x4C XLPE/SWA/LSF CABLE									

Notes

1. Where RCD's are indicated single module combined MCB/RCD units shall be provided

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CIRCUIT PROTECTIVE CONDUCTOR TYPES

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 5 = MICC SHEATH

CIRCUIT TYPE X = RING
 L = RADIAL

DISTRIBUTION BOARD			DB-L-1			16-Way			REV	T1	ISSUED	DATE
REFERENCE									PREPARED BY & DATE		DM	16/04/2021
Integral Isolator rating			63A						CHECKED BY & DATE		AL	16/04/2021
CIRCUIT NO.	Load Details					MCB			CABLE SIZE (mm²)	CABLE TYPE	CPC SIZE (mm²)	CPC TYPE
		Description	CCT Type	RATING	Type	RCD						
1	L1	Lighting	Ground Floor - Entrance/ Corridor Lighting	L	6A	C	-	1.5	C	1.5	2	
	L2	Lighting	Ground Floor - Back of House Corridor/Bikestore	L	6A	C	-	1.5	C	1.5	2	
	L3	Lighting	Basement - Plantroom	L	6A	C	-	1.5	C	1.5	2	
2	L1	Lighting	Ground Floor - Courtyard	L	10A	C	30mA	2.5	C	2.5	2	
	L2	Lighting	Ground Floor - BinStore/Plantroom	L	6A	C	-	1.5	C	1.5	2	
	L3	Lighting	Basement - Corridor/Stairs	L	6A	C	-	1.5	C	1.5	2	
3	L1	Lighting	Ground Floor - Corridor/Stairs	L	6A	C	-	2.5	C	2.5	2	
	L2	Lighting	First Floor - Corridor/Stairs	L	6A	C	-	2.5	C	2.5	2	
	L3	Lighting	Second Floor - Corridor/Stairs	L	6A	C	-	2.5	C	2.5	2	
4	L1	Lighting	Ground Floor - External Lighting	L	10A	C	30mA	2.5	C	2.5	2	
	L2	Lighting										
	L3	Lighting										
5	L1	Power	Basement/Ground Floor - Cleaners	X	32A	B	30mA	2.5	C	2.5	4	
	L2	Power	First/Second Floor - Cleaners Sockets	X	32A	B	30mA	2.5	C	2.5	4	
	L3	Power	Ground Floor - Plantroom Sockets	X	32A	B	30mA	2.5	C	2.5	4	
6	L1	Power	Access Control Power Supplies - Front	L	10A	B	-	2.5	B	1.5	4	
	L2	Power	Access Control Power Supplies - Back	L	10A	B	-	2.5	B	1.5	4	
	L3	Power	Ground Floor - Courtyard Sockets	X	32A	B	30mA	2.5	F	2.5	4	
7	L1	Power	Ground Floor Back of House - Cleaners	X	32A	B	30mA	2.5	C	2.5	4	
	L2	Power	Ground Floor - Comms Cabinet	L	32A	B	-	4.0	C	4.0	4	
	L3	Power	TV Distribution PSU	L	20A	B	-	2.5	B	1.5	4	
8	L1	Power	AOV Controller Panel	L	10A	C	-	2.5	G	2.5	5	
	L2	Power	Ground Floor - Comms Cabinet	L	32A	B	-	4.0	C	4.0	4	
	L3	Power	Booster Set Supply	L	10A	D	-	4.0	F	4.0	3	
9	L1	Power	Basement/Ground Panel Heaters	L	20A	B	-	4.0	C	4.0	2	
	L2	Power	First/Second Floor - Panel Heaters	L	20A	B	-	4.0	C	4.0	2	
	L3	Power	Ground Panel Heaters - Back of House	L	20A	B	-	4.0	C	4.0	2	
10	L1	Power	Sump Pump 01	L	10A	D	-	4.0	F	4.0	3	
	L2	Power	Sump Pump 02	L	10A	D	-	4.0	F	4.0	3	
	L3	Power	Pump Control Panel TBC	L	10A	B	-	4.0	F	4.0	3	
11	L1	Power	Smoke Dampers - Entrance Corridor	L	10A	B	-	2.5	G	2.5	5	
	L2	Power	Smoke Dampers - Back of House Area	L	10A	B	-	2.5	G	2.5	5	
	L3	Power										
12	L1	Power										
	L2	Power										
	L3	Power										
13	L1	Power										
	L2	Power										
	L3	Power										
14	L1	Power										
	L2	Power										
	L3	Power										
15	L1	Power										
	L2	Power										
	L3	Power										
16	L1	Power	DB-EX1	L	63A	B	-	10.0	F	-	3	
	L2	Power										
	L3	Power										
LOCATION OF BOARD												
Ground Floor Plant Room												
BOARD FED FROM:												
MCCB-1												
FEEDER CABLE	16mm² 1x1x4C XLPE/SWA/LSF CABLE											

1.5 Power Distribution

DISTRIBUTION BOARD		CUI-*	8-Way				REV	T1	ISSUED	DATE
REFERENCE							PREPARED BY & DATE:	DM	16/04/2021	
Integral Isolator rating		63A				CHECKED BY & DATE:		AL	16/04/2021	
CIRCUIT NO.	Load Details		MCB			CABLE SIZE	CABLE TYPE	CPC SIZE	CPC TYPE	
	Description	CCT Type	RATING	Type	RCD					
1	Lighting Circuit	L	10A	C	30mA	1.5	B	1.0	4	
2	General Sockets	X	32A	B	30mA	2.5	B	1.5	4	
3	Hob	L	32A	B	30mA	10.0	B	10.0	4	
4	Kitchen Sockets	X	32A	B	30mA	2.5	B	1.5	4	
5	Fire Alarm Circuit	L	6A	B	-	1.0	G	1.0	5	
6	Panel Heaters	L	20A	B	30mA	4.0	B	4.0	4	
7	Misting System (Basement Apts)	L	10A	B	30mA	2.5	G	2.5	5	
8	SPARE									
LOCATION OF BOARD										
Apartment										
BOARD FED FROM:										
Tennants DB										
FEEDER CABLE	Refer to DB-T1									

Notes

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A = PVC SINGLES IN TRUNKING / CONDUIT
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CIRCUIT PROTECTIVE CONDUCTOR TYPES

1 = PVC SINGLE
 2 = LSF SINGLE
 3 = CABLE ARMOUR
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CIRCUIT TYPE X = RING
 L = RADIAL

2.0 Lighting
T1

TYPE	DESCRIPTION	MANUFACTURER DETAILS	LAMP TYPE	MOUNTING	LOCATION	PICTURE
B	Tyson Recessed downlight, MD1081/WH/FP IP65	Tyson Lighting	GU10 LED	Recessed	Apartment - Bathrooms	
A	Tyson Recessed downlight, MD1004/WH/FP	Tyson Lighting	GU10 LED	Recessed	Apartment - Living Room/Hallway/Bedroom	
A2	Tyson Recessed downlight, MD1024/WH/FP	Tyson Lighting	GU10 LED	Recessed	Apartment - Kitchen	
C	Tyson Recessed uplighter.	Tyson Lighting	LED	Surface	Apartment	
F	Tyson Surface Mounted Luminaire, ADILED2/MWS/M2	Tyson Lighting	LED	Surface	Corridor/Staircore	
P	Tyson Ero, Pendant Luminaire	Tyson Lighting	Bulb	Pendant	Entrance Hall	
G	Ansel Topline 6 LED Batten,1220mm	Ansel	LED	Surface	Plant Rooms/Bin Store	

E	Denotes 3Hr Emergency Conversion					
EXIT	Ansel ENDLED Exit Sign	Ansel	LED	Surface	CORRIDORS / FINAL EXITS	
E1	Merlin LED Emergency Pinspot Downlight	Ansel	LED	Recessed	Main Entrance/Corridor	
H	Ansel Guardian LED Bulkhead	Ansel	LED	Surface	FINAL EXITS/Plantroom/Courtyard	