

Electrical Technical Schedule

Schedule Cover Sheet



Office of Origin:	Cardiff	MEP Discipline:	Electrical
Project Description:	Sport Wales National Centre - Switchboard Replacement	Document No:	10126-MCP-V1-XX-L-E-1001
Client :	Sport Wales	Revision:	P02
Date:	Jan-26	Submission Stage:	TENDER
Engineer:	Matthew Mallett	Reviewed By:	Daniel Young

Notes:

- 1 This schedule shall be read in conjunction with the electrical drawings for the project. Please refer to the Document Issue Register for exact details.
- 2 The listed sub-main and sub-circuit cable sizes have been calculated in accordance with BS7671 using approved software Amtech ProDesign. The Contractor shall ensure that the agreed cable route is clarified with the engineer to ensure the accuracy of the calculated cable lengths.
- 3 Cables have been assigned suitable grouping factors related to the route and arrangement of the primary containment proposals serving final distribution equipment and final circuit comprising mechanical equipment supplies, small power, lighting and all other miscellaneous circuits. All circuit cabling has been calculated using specific installation method parameters as expected in the onsite installation.
- 4 Circuit protective devices have been calculated using Schneider Electrics Range of products.

Revision Information:

Schedule Number	Description	Revision Author	Revision Reviewer	Date
All	Project Title Amended	MM	DY	01/02/2026

SCHEDULE NUMBER	1
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Existing Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	PROTECTIVE DEVICE RATING (A)				PHASE	REV
							FRAME SIZE	FUSE SIZE	CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
CONTRACTOR TO PROVIDE DETAILS OF EXISTING CABLING AS PART OF ENABLING WORKS TO ALLOW VERIFICATION OF PROTECTIVE DEVICES AND TO ALLOW FINALISATION OF ANY CABLE SIZES.												
100	NGED	Incomer DB16 Main Switchboard	By NGED	By NGED	By NGED	By NGED	By NGED	By NGED			TPN	
101	DB16 Main Switchboard	DB-37	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
102	DB16 Main Switchboard	DB-55	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
103	DB16 Main Switchboard	DB-10A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
104	SPARE											
105	DB16 Main Switchboard	Laundry Lift Supply	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
106	SPARE											
107	DB16 Main Switchboard	DB-19	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
108	DB16 Main Switchboard	DB-35	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
109	DB16 Main Switchboard	DB-29	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
110	SPARE											
111	DB16 Main Switchboard	DB-9	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
112	DB16 Main Switchboard	DB-26	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	

SCHEDULE NUMBER	1
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Existing Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	PROTECTIVE DEVICE RATING (A)				PHASE	REV
							FRAME SIZE	FUSE SIZE	CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
113	DB16 Main Switchboard	DB-22A?	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
114	DB16 Main Switchboard	DB-15 PR1 63A Isolator?	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
115	DB16 Main Switchboard	BUSBAR Kitchen Restaurant Supply DB-	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	250A		250A		TPN	
116	DB16 Main Switchboard	DB-54	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
117	DB16 Main Switchboard	DB-21 & EICR indicates DB-13A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
118	DB16 Main Switchboard	DB-12A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
119	DB16 Main Switchboard	DB-34	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
120	DB16 Main Switchboard	Kitchen Lift Motor Room	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
121	DB16 Main Switchboard	ISOLATED WAY	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
122	DB16 Main Switchboard	ISOLATED WAY	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
123	DB16 Main Switchboard	EMPTY WAY	TBC by Contractor	TBC by Contractor	TBC by Contractor	-	-				SPN	
124	DB16 Main Switchboard	ISOLATED WAY	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
125	DB16 Main Switchboard	SPARE	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
126	DB16 Main Switchboard	DB-17	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
127	DB16 Main Switchboard	BD-6	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
128	DB16 Main Switchboard	DB-32	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	

SCHEDULE NUMBER	1
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Existing Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	PROTECTIVE DEVICE RATING (A)				PHASE	REV
							FRAME SIZE	FUSE SIZE	CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
129	DB16 Main Switchboard	DB-8	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
130	DB16 Main Switchboard	DB-13	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
131	DB16 Main Switchboard	DB-18	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
132	DB16 Main Switchboard	DB-1	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	250A		250A		TPN	
133	DB16 Main Switchboard	External PFC 75kVAr unit	TBC by Contractor	TBC by Contractor	TBC by Contractor	Busbars	-		-		TPN	
134	DB16 Main Switchboard	2nd Floor Café Balcony Busbar	TBC by Contractor	TBC by Contractor	TBC by Contractor	Busbars	-		-		TPN	
135	DB16 Main Switchboard	200A Isolator Residents Showers /1st Floor Air Conditioning via	TBC by Contractor	TBC by Contractor	TBC by Contractor	Busbars	-		-		TPN	
136	DB16 Main Switchboard	DB-EV	TBC by Contractor	TBC by Contractor	TBC by Contractor	Busbars	-		-		TPN	

SCHEDULE NUMBER	2
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Existing Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	133
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
									CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
CONTRACTOR TO PROVIDE DETAILS OF EXISTING CABLING AS PART OF ENABLING WORKS TO ALLOW VERIFICATION OF PROTECTIVE DEVICES AND TO ALLOW FINALISATION OF ANY CABLE SIZES.												
201	DB-1 Panel Board	DB-25	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
202	DB-1 Panel Board	DB-2	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
203	DB-1 Panel Board	SPARE				EMPTY						
204	DB-1 Panel Board	DB-5	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
205	DB-1 Panel Board	UNKNOWN LOAD	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
206	DB-1 Panel Board	DB-41	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
207	DB-1 Panel Board	UNKNOWN LOAD - Device isolated contractor to investigate & remove if redundant				MCCB	100A		100A		TPN	
208	DB-1 Panel Board	Metered Supply - Contractor to investigate and confirm load and cabling				MCCB	40A		40A		TPN	
209	DB-1 Panel Board	Lift A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
210	DB-1 Panel Board	Lift B	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
211	DB-1 Panel Board	SPARE				EMPTY						
212	DB-1 Panel Board	New Boiler Control Panel	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
213	DB-1 Panel Board	External Lighting	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	
214	DB-1 Panel Board	DB-38 Extension Building	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
215	DB-1 Panel Board	Emergency Lighting DB - Device isolated contractor to investigate & remove if redundant				MCCB	30A		30A		SPN	
216	DB-1 Panel Board	Hoist - Device isolated contractor to investigate and remove if redundant				MCCB	60A		60A		TPN	
217	DB-1 Panel Board	DB-4 Hydrotherapy Pool - Device isolated contractor to investigate and remove if redundant				MCCB	100A		100A		SPN	
218	DB-1 Panel Board	DB-4A Hydrotherapy Pool	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		SPN	

SCHEDULE NUMBER	2
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
DISTRIBUTION BOARD REF:	DB-16 Existing Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	133

PROTECTIVE DEVICE RATING (A)

SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	CIRCUIT BREAKER SETTINGS		PHASE	REV
									Over Current	Short Circuit		
CONTRACTOR TO PROVIDE DETAILS OF EXISTING CABLING AS PART OF ENABLING WORKS TO ALLOW VERIFICATION OF PROTECTIVE DEVICES AND TO ALLOW FINALISATION OF ANY CABLE SIZES.												
219	DB-1 Panel Board	EMPTY										
220	DB-1 Panel Board	DB-27	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	60A		60A		TPN	
221	DB-1 Panel Board	DB-39	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
222	DB-1 Panel Board	DB-3	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	

SCHEDULE NUMBER	3
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Proposed Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:	SUB MAIN REF:
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CUBICLE SECTION	SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
										CIRCUIT BREAKER SETTINGS			
										Over Current	Short Circuit		
CONTRACTOR TO PROVIDE DETAILS OF EXISTING CABLING AS PART OF ENABLING WORKS TO ALLOW VERIFICATION OF PROTECTIVE DEVICES AND TO ALLOW FINALISATION OF ANY CABLE SIZES.													
A3	100	NGED	Incomer DB16 Main Switchboard	By NGED	By NGED	By NGED	By NGED	By NGED	By NGED			TPN	
A2	100A	DB16 Main Switchboard	ESP	INTEGRAL by panel manufacturer			MCCB TMD	160A		160A		TPN	
B5	101	DB16 Main Switchboard	DB-37	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
D6	102	DB16 Main Switchboard	DB-55	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
E6	103	DB16 Main Switchboard	DB-10A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
D3	105	DB16 Main Switchboard	Laundry Lift Supply	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	63A		63A		TPN	
D5	107	DB16 Main Switchboard	DB-19	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
E3	114	DB16 Main Switchboard	DB-15 PR1 63A Isolator	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
D9	115	DB16 Main Switchboard	Busbar Kitchen Restaurant Supply DB-47	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	250A		250A		TPN	
E5	116	DB16 Main Switchboard	DB-54	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
B4	117	DB16 Main Switchboard	DB-21 & EICR indicates DB-13A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
D4	119	DB16 Main Switchboard	DB-34	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		TPN	
E4	130	DB16 Main Switchboard	DB-13	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
B3	131	DB16 Main Switchboard	DB-18	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	100A		100A		TPN	
B6	132	DB16 Main Switchboard	DB-1	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	250A		250A		TPN	

SCHEDULE NUMBER	3
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-16 Proposed Main Switchboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Size TBC	No. OF WAYS:		SUB MAIN REF:	
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CUBICLE SECTION	SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
										Over Current	Short Circuit		
CONTRACTOR TO PROVIDE DETAILS OF EXISTING CABLING AS PART OF ENABLING WORKS TO ALLOW VERIFICATION OF PROTECTIVE DEVICES AND TO ALLOW FINALISATION OF ANY CABLE SIZES.													
D7	133	DB16 Main Switchboard	External PFC 75kVAr unit	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	250A		250A		TPN	
E7	134	DB16 Main Switchboard	2nd Floor Busbar	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	160A		160A		TPN	
D8	135	DB16 Main Switchboard	200A Isolator Residents Showers /1st Floor Air Conditioning via Contactor	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	200A		200A		TPN	
B7	136	DB16 Main Switchboard	DB-EV	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB TMD	250A		250A		TPN	
B8	137	DB16 Main Switchboard	PB-1 NEW PANELBOARD	2 x 4C XLPE/SWA/LSZH BS:7624	2 x 150mm	150mm	MCCB Micrologic 2.3	630A		630A		TPN	
B2	138	DB16 Main Switchboard	New supply to existing Fire Alarm Panel	3-Core Enhanced Grade Fire Rated Cable	2.5mm	1.5mm	MCCB TMD	100A		100A		TPN	
E8	139	DB16 Main Switchboard	SPARE BLANK MODULE				EMPTY MAX 630A					TPN	
D2	140	DB16 Main Switchboard	SPARE				MCCB TMD	100A		100A		TPN	
D1	141	DB16 Main Switchboard	SPARE				EMPTY MAX 250A					TPN	
E1	142	DB16 Main Switchboard	SPARE				EMPTY MAX 250A					TPN	
E2	143	DB16 Main Switchboard	SPARE				EMPTY MAX 250A					TPN	

SCHEDULE NUMBER	4
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	PB-1 Proposed New Panelboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	630A MCCB	No. OF WAYS:		SUB MAIN REF:	137
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	PROTECTIVE DEVICE RATING (A)				PHASE	REV
							FRAME SIZE	FUSE SIZE	CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
108	DB16 Main Switchboard	DB-35	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
109	DB16 Main Switchboard	DB-29	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
111	DB16 Main Switchboard	DB-9	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		SPN	
112	DB16 Main Switchboard	DB-26	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
113	DB16 Main Switchboard	DB-22A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		SPN	
118	DB16 Main Switchboard	DB-12A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		TPN	
120	DB16 Main Switchboard	Kitchen Lift Motor Room	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		TPN	
126	DB16 Main Switchboard	DB-17	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
127	DB16 Main Switchboard	BD-6	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
128	DB16 Main Switchboard	DB-32	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
129	DB16 Main Switchboard	DB-8	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	

SCHEDULE NUMBER	4
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	PB-1 Proposed New Panelboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	630A MCCB	No. OF WAYS:		SUB MAIN REF:	137
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
									CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	

SCHEDULE NUMBER	5
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-1 Replacement Panel Board	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Schneider NSX 250A 3P MCCB	No. OF WAYS:	18	SUB MAIN REF:	133
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
									CIRCUIT BREAKER SETTINGS			
									Over Current	Short Circuit		
108	DB16 Main Switchboard	DB-35	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
109	DB16 Main Switchboard	DB-29	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
111	DB16 Main Switchboard	DB-9	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		SPN	
112	DB16 Main Switchboard	DB-26	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
113	DB16 Main Switchboard	DB-22A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		SPN	
118	DB16 Main Switchboard	DB-12A	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		TPN	
120	DB16 Main Switchboard	Kitchen Lift Motor Room	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	63A		63A		TPN	
126	DB16 Main Switchboard	DB-17	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
127	DB16 Main Switchboard	BD-6	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
128	DB16 Main Switchboard	DB-32	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
129	DB16 Main Switchboard	DB-8	TBC by Contractor	TBC by Contractor	TBC by Contractor	MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	

SCHEDULE NUMBER	5
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**ELECTRICAL SCHEDULE
PROPOSED SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-1 Replacement Panel Board	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Schneider NSX 250A 3P MCCB	No. OF WAYS:	18	SUB MAIN REF:	133
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SUB MAIN REF NO.	SOURCE	DESTINATION	CABLE DESCRIPTION	CONDUCTOR SIZE	CPC SIZE	PROTECTIVE DEVICE TYPE	FRAME SIZE	FUSE SIZE	PROTECTIVE DEVICE RATING (A)		PHASE	REV
									Over Current	Short Circuit		
						MCCB	100A		100A		SPN	
						MCCB	100A		100A		SPN	

SUBMAIN SCHEDULE NOTES

Note	Details
1	Final circuit breaker settings to be provided by switchgear manufacturer as part of contractors scope of works. All settings to be passed to the Consulting Engineer for comment prior to final commissioning. Contractors/Switchgear Manufacturers Scope of Works to include complete discrimination/grading exercise fully co-ordinated with up-stream and down-stream devices including REC protective devices.
2	Incoming cables and metering compartment to comply with the requirements of the Regional Electricity Company (REC). Specification details are available upon request from the REC for the following load ranges:- <ul style="list-style-type: none"> · up to 300 kVA · 300 kVA - 1000 kVA · Loads in excess of 1000 kVA
3	The Electrical Contractor shall ensure the selected switchboard and main earthing arrangement is fully compatible with these requirements, the Electrical Contractor shall send panel drawings and schematics to the REC for approval prior to panel manufacture.
4	Earth leakage and overload protection on incoming circuit breaker to be provided in accordance with REC Requirements. Contractor to gain approval of switchgear from REC prior to manufacture.
5	For energy monitoring functions, refer to Main Distribution Schematic and Electrical Specification
6	Where applicable DC supply and charger to be provided as part of switchgear manufacturers order. Unit to be wall mounted within switchroom.
7	REC metering fuses to be supplied by switchgear manufacturer.
8	The Electrical Contractor shall supply and install all cable tray/containing systems and clipping of cables as required by the REC. Details of specification of the containing systems will be discussed and agreed with the local REC. All costs for this shall be included.
9	Where REC meter and switchboard are more than 2m apart, the Electrical Contractor shall supply and install a suitably rated fuse switch between the meter and the load.
10	Earthing requirements to comply with BS 7671 and REC Requirements, in particular the requirements for Protective Multiple Earthing (PME). The Electrical Contractor shall include for all such requirements within his tender figure.
11	All sub main cables to be low smoke and fume zero halogen unless otherwise stated.
12	All neutral conductors to be full size, this applies to both cables and switchboards.
13	Main equipotential bonding conductors and supplementary bonding conductors to be sized to comply with REC/BS7671 Requirements (whichever is the greater).
14	Main incomer circuit breakers will be supplied with the provision of a shunt trip connected to an earth leakage sensing device for use during the construction phase of the contract. The Contractor shall allow for the supply and installation of this temporary arrangement for use until a PME terminal is provided by the REC.

SCHEDULE NUMBER 6

**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
DISTRIBUTION BOARD REF:	EXISTING DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
ISOLATOR:		No. OF WAYS:		SUB MAIN REF:	N/A
SWITCHBOARD LOCATION:	Plant Room 2 - Ground Floor				

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCCB	Trip	KA	P&N (mm ²)	CPC (mm ²)	Type	
1	L1	DB-37 (Level 01 - Shooting Range)	100A						
1	L2								
1	L3								
2	L1	DB-55 (Level XX - Boxing Centre Rising Cupboard)	100A						
2	L2								
2	L3								
3	L1	DB-10A - (Level 00 - Workshop Store, Storm Water) & DB-12	100A						
3	L2								
3	L3								
4	L1	Spare							
4	L2								
4	L3								
5	L1	Laundry Lift	60A						
5	L2								
5	L3								
6	L1	Spare							
6	L2								
6	L3								
7	L1	DB-19 (Level 00 - Rear of Main Reception)	100A						
7	L2								
7	L3								
8	L1	DB-35 Shooting (Level 01 - Opposite Bute Street)	100A						
8	L2	DB-29 (Level 01 - Accomodation Block - Café Side DB Cupboard)	100A						
8	L3	Spare							
9	L1	DB-9 (Level 00 - Main Hall Internal Roller Shutter)	63A						
9	L2	DB-26 (Level 00 - Changing Room 6)	100A						
9	L3	DB-22A (Level 00 - Ice Store Room)	63A						
10	L1	63A Isolator (Level XX - Sports Wales Office) (Plant Room 1 Isola	100A						
10	L2								
10	L3								
11	L1	BUSBAR DB-47 (Level XX - Riser cupboard of café) (Kitchen Restaurant Supply)	250A						
11	L2								
11	L3								
12	L1								
12	L2								
12	L3								

SCHEDULE NUMBER 6

**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
DISTRIBUTION BOARD REF:	EXISTING DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
ISOLATOR:		No. OF WAYS:		SUB MAIN REF:	N/A
SWITCHBOARD LOCATION:	Plant Room 2 - Ground Floor				

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCCB	Trip	KA	P&N (mm ²)	CPC (mm ²)	Type	
13	L1	DB-54 (Level 02 Open Plan Office Area)	100A						
13	L2								
13	L3								
14	L1	DB-21 (Level 00 - Main Hall Squash Side) EICR INDICATES ALSO DB-13A (Level 00 - Electrical Waste Store)	100A						
14	L2								
14	L3								
15	L1	DB-12A (Level 00 - Workshop)	60A						
15	L2								
15	L3								
16	L1	DB-34 Main Hall Lighting (Level 01 - Main Hall Sound Room)	100A						
16	L2								
16	L3								
17	L1	Kitchen Lift Motor Room Isolator	60A						
17	L2								
17	L3								
18	L1	ISOLATED - SPARE	100A						
18	L2	ISOLATED - SPARE	60A						
18	L3	EMPTY WAY							
19	L1	ISOLATED - SPARE	60A						
19	L2	SPARE	60A						
19	L3	DB-17 Switch Room (Level 00 - Plant Room 1)	60A						
20	L1	DB-6 GB Offices (Level 00 - GB Corridor Squash Wales)							
20	L2	DB-32 (Level 01 - Hot Desk Room)							
20	L3	DB-8 (Level 00 - Linen Room)							
21	L1	DB-11 & DB-13 (Fed from DB-11 Level 00 - Workshop) As indicated on EICR contractor to check	100A						
21	L2								
21	L3								
22	L1	DB-18 (Level 00 - Main Hall Exhibition Board)	100A						
22	L2								
22	L3								
23	L1	DB-1 (Level 00 - Plant Room 2)	300A						
23	L2								
23	L3								
24	L1								
24	L2								
24	L3								

SCHEDULE NUMBER 6

ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
DISTRIBUTION BOARD REF:	EXISTING DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
ISOLATOR:		No. OF WAYS:		SUB MAIN REF:	N/A
SWITCHBOARD LOCATION:	Plant Room 2 - Ground Floor				

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCCB	Trip	KA	P&N (mm ²)	CPC (mm ²)	Type	
Direct of Busbars	L1	Power Factor Correction Unit 75kVAr via 200A Isolator							
	L2								
	L3								
	L1	2nd Floor Café Balcony busbar Isolator							
	L2								
	L3								
	L1	1st Floor Busbar AC 200A Isolator							
	L2								
	L3								
	L1	DB-A via Isolator							
	L2								
	L3								
	L1	DB-EV via 250A Isolator.							
	L2								
	L3								

SCHEDULE NUMBER	7
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**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	EXISTING DB-1 (Panel Board)	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	250A	No. OF WAYS:		SUB MAIN REF:	N/A
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Plant Room 2 - Ground Floor

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCCB	Trip	KA	P&N (mm ²)	CPC (mm ²)	Type	
1	L1	DB-25 (Level 00 - CR 5 & 6 Lobby)	100						
1	L2								
1	L3								
2	L1	DB-2 (Level 00 - Plant Room 2)	60A						
2	L2	EMPTY WAY							
2	L3	DB-5 (Level 00 - GB/Wales Netball Meeting Room)	60A						
3	L1	ISOLATED							
3	L2	DB-41 (Jubille Hall Riser) NOT LABELLED ASSUMED FROM RECORDS	60A						
3	L3	ISOLATED							
4	L1	Metered Supply	40A						
4	L2								
4	L3								
5	L1	Lift A	60A						
5	L2								
5	L3								
6	L1	Lift B	60A						
6	L2								
6	L3								
7	L1	MAIN SWITCH 250A							
7	L2								
7	L3								
8	L1								
8	L2								
8	L3								
9	L1	Empty Way							
9	L2								
9	L3								
10	L1	New Boiler Control Panel	60A						
10	L2								
10	L3								
11	L1	External Lighting	30A						
11	L2	DB 38 (Level 01 Extension Building)	60A						
11	L3	ISOLATED (Emergency Lighting DB)	30A						
12	L1	ISOLATED (Hoist)	30A						
12	L2								
12	L3								

SCHEDULE NUMBER	7
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**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	EXISTING DB-1 (Panel Board)	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	250A	No. OF WAYS:		SUB MAIN REF:	N/A
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Plant Room 2 - Ground Floor

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCCB	Trip	KA	P&N (mm ²)	CPC (mm ²)	Type	
13	L1	ISOLATED DB-4 (Level 00 - Hydro Pool)	100A						
13	L2	DB-4A (Level 00 Hydrotherapy pool)	60A						
13	L3	EMPTY WAY							
14	L1	DB-27 (Level 00 Side Reception Booking Office) Labeled Lift Small Power DB-I Foyer	60A						
14	L2								
14	L3								
15	L1	DB-39 (Jubilee Hall)	100A						
15	L2								
15	L3								
16	L1	DB-3 (Level 00 - Lower Gym)	100A						
16	L2								
16	L3								

SCHEDULE NUMBER	8
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**ELECTRICAL SCHEDULE
SWITCHBOARD SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	Proposed DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	800A 4 POLE	No. OF WAYS:		SUB MAIN REF:	N/A
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DISTRIBUTION BOARD LOCATION:	Plant Room 2 - Ground Floor
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Cubicle Section	Phase	Details of Load	Protective Device				Rev
			DEVICE	TRIP	Ir	Im	
A1	Busbar Section (NOT AVAILABLE FOR USE)						
A2	L1	Transient Voltage Surge Suppression Device Type 1 & 2	Schneider NSX, 36kA, 160A TP MCCB	TMD	160A	NO	
	L2						
	L3						
A3	MAIN INCOMER 800A 4 POLE SWITCH DISCONNECTOR					Multi-Function	
A4	INCOMER CABLEWAY SECTION						
B1	Busbar Section (NOT AVAILABLE FOR USE)						
B2	L1	SPARE (LOADED MODULE)	Schneider NSX, 36kA, 100A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B3	L1	DB-18 - Main Hall Exhibition Board	Schneider NSX, 36kA, 100A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B4	L1	DB-21 - Main Hall, EICR INDICATES DB13A PA Room	Schneider NSX, 36kA, 100A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B5	L1	DB-37 - Shooting Range	Schneider NSX, 36kA, 100A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B6	L1	DB-1 - PANEL BOARD PLANT ROOM 2 (Panel Board to be Replaced as part of works)	Schneider NSX, 36kA, 250A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B7	L1	DB-EV - Electric Vehicle Charging (Existing Board to be relocated from external to plant room 1 to internal within switchroom)	Schneider NSX, 36kA, 250A TP MCCB	TMD		Multi-Function	
	L2						
	L3						
B8	L1	New Panel Board PB-1 - Within main switchroom	Schneider NSX, 50kA, 630A TP MCCB	Micrologic 2.3		Multi-Function	
	L2						
	L3						
B9	Busbar Section (NOT AVAILABLE FOR USE)						
C1	OUTGOING CABLEWAY SECTION						
C2	Busbar Section (NOT AVAILABLE FOR USE)						

SCHEDULE NUMBER	8
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**ELECTRICAL SCHEDULE
SWITCHBOARD SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	Proposed DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	800A 4 POLE	No. OF WAYS:		SUB MAIN REF:	N/A
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DISTRIBUTION BOARD LOCATION:	Plant Room 2 - Ground Floor
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Cubicle Section	Phase	Details of Load	Protective Device					Rev
			DEVICE	TRIP	Ir	Im	METER	
D1	L1	SPARE (EMPTY MODULE)	Capacity for max 250A TP Device				No	
	L2							
	L3							
D2	L1	SPARE (LOADED MODULE)	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D3	L1	LAUNDRY LIFT	Schneider NSX, 36kA, 63A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D4	L1	DB-34 PA Room	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D5	L1	DB-19 Rear of Main Entrance	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D6	L1	DB-55 Boxing Centre	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D7	L1	External Existing Power Factor Correction Unit	Schneider NSX, 36kA, 200A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D8	L1	2nd Floor Café Balcony Busbar (Residents Shower)	Schneider NSX, 36kA, 200A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D9	L1	DB-47 (Level XX - Riser cupboard of café) Busbar Kitchen Restaurant Supply.	Schneider NSX, 36kA, 250A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
D10	Busbar Section (NOT AVAILABLE FOR USE)							
E1	L1	SPARE (EMPTY MODULE)	Capacity for max 250A TP Device				No	
	L2							
	L3							
E2	L1	SPARE (EMPTY MODULE)	Capacity for max 250A TP Device				No	
	L2							
	L3							
E3	L1	63A Isolator (Level XX - Sports Wales Office) (Plant Room 1 Isolator)	Schneider NSX, 36kA, 63A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
E4	L1	DB-13 - Workshop	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
E5	L1	DB-54 - Sports Wales Office	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							

SCHEDULE NUMBER	8
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**ELECTRICAL SCHEDULE
SWITCHBOARD SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	Proposed DB-16 (Main Switchboard)	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	800A 4 POLE	No. OF WAYS:		SUB MAIN REF:	N/A
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DISTRIBUTION BOARD LOCATION:	Plant Room 2 - Ground Floor
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Cubicle Section	Phase	Details of Load	Protective Device					Rev
			DEVICE	TRIP	Ir	Im	METER	
E6	L1	DB-10A - Workshop Store	Schneider NSX, 36kA, 100A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
E7	L1	2nd Floor Café - 200A Isolator	Schneider NSX, 36kA, 160A TP MCCB	TMD			Multi-Function	
	L2							
	L3							
E8	L1	SPARE (EMPTY MODULE)	Capacity for max 630A TP Device				No	
	L2							
	L3							
E9	Busbar Section (NOT AVAILABLE FOR USE)							
F1	INCOMER CABLEWAY SECTION							
F2	Busbar Section (NOT AVAILABLE FOR USE)							

SCHEDULE NUMBER	9
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**ELECTRICAL SCHEDULE
SWITCHBOARD SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	PB-1 New Panel Board	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Schneider NSX 630A TPN MCCB	No. OF WAYS:	12	SUB MAIN REF:	N/A
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PANELBOARD LOCATION:	Plant Room 2 - Ground Floor
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Way no	Phase	Details of Load	Protective Device				Rev	
			DEVICE	TRIP	Ir	Im		METER
1	L1	DB-35 Shooting	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
1	L2	DB-29 Accomodation Block	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
1	L3	DB-22A Workshop	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
2	L1	DB-9 Main Hall Internal Lighting	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
2	L2	DB-26 Changing Room	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
2	L3	DB-17 Switchroom Palant Room 1	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
3	L1	DB-6 GB Offices	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
3	L2	DB-32 Hot Desk Room	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
3	L3	DB-8 Linen Room	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
4	L1	DB-12A Workshop	Schneider NSX 36kA TM-D	63A	63A		Yes	
4	L2							
4	L3							
5	L1	Kitchen Lift Motor Room	Schneider NSX 36kA TM-D	63A	63A		Yes	
5	L2							
5	L3							
6	L1	Spare	Schneider NSX 36kA TM-D	63A	63A		Yes	
6	L2							
6	L3							
7	L1	Spare	Schneider NSX 36kA TM-D	100A	Fixed		Yes	
7	L2	Spare	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
7	L3	Spare	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
8	L1	Spare	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
8	L2	Spare	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
8	L3	Blank Empty Module	-	-	-	-	-	
9	L1	Blank Empty Module	-	-	-	-	-	
9	L2	Blank Empty Module	-	-	-	-	-	
9	L3	Blank Empty Module	-	-	-	-	-	
10	L1	Blank Empty Module	-	-	-	-	-	
10	L2	Blank Empty Module	-	-	-	-	-	
10	L3	Blank Empty Module	-	-	-	-	-	
11	L1	Blank Empty Module	-	-	-	-	-	
11	L2	Blank Empty Module	-	-	-	-	-	
11	L3	Blank Empty Module	-	-	-	-	-	
12	L1	Blank Empty Module	-	-	-	-	-	
12	L2	Blank Empty Module	-	-	-	-	-	
12	L3	Blank Empty Module	-	-	-	-	-	

SCHEDULE NUMBER	10
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**ELECTRICAL SCHEDULE
SWITCHBOARD SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-1 Replacement Panelboard	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	Schneider NSX 630A TPN MCCB	No. OF WAYS:	12	SUB MAIN REF:	N/A
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PANELBOARD LOCATION:	Plant Room 2 - Ground Floor
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Way no	Phase	Details of Load	Protective Device					Rev
			DEVICE	TRIP	Ir	Im	METER	
1	L1	DB-25 - CR 5 & 6 Lobby	Schneider NSX 36kA TM-D	100A	100A		Yes	
1	L2							
1	L3							
2	L1	DB-2 Plant Room	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
2	L2	DB-41 (Jubilee Hall Riser) No Labelled assumed from EICR and records	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
2	L3	DB-5 (Level 00 - GB/Wales Netball Meeting Room)	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
3	L1	Metered Supply	Schneider NSX 36kA TM-D	40A	Fixed		Yes	
3	L2							
3	L3							
4	L1	Lift A	Schneider NSX 36kA TM-D	63A	63A		Yes	
4	L2							
4	L3							
5	L1	Lift B	Schneider NSX 36kA TM-D	63A	63A		Yes	
5	L2							
5	L3							
6	L1	New Boiler Control Panel	Schneider NSX 36kA TM-D	63A	63A		Yes	
6	L2							
6	L3							
7	L1	External Lighting	Schneider NSX 36kA TM-D	30A	Fixed		Yes	
7	L2	DB-38 (Level 01 Extension Building)	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
7	L3			63A	Fixed		Yes	
8	L1			63A	Fixed		Yes	
8	L2	DB-4A (Level 00 Hydrotherapy Pool)	Schneider NSX 36kA TM-D	63A	Fixed		Yes	
8	L3	Blank Empty Module	-	-	-	-	-	
9	L1	DB-27 (Level 00 Side Reception Booking Office) Labeled Lift Small Power DB-1 Foyer	Schneider NSX 36kA TM-D	63A	63A	-	Yes	
9	L2							
9	L3							
10	L1	DB-39 (Jubilee Hall)	Schneider NSX 36kA TM-D	100A	100A	-	Yes	
10	L2							
10	L3							
11	L1	DB-3 (Level 00 - Lower Gym)	Schneider NSX 36kA TM-D	100A	100A	-	Yes	
11	L2							
11	L3							
12	L1	Blank Empty Module	-	-	-	-	-	
12	L2	Blank Empty Module	-	-	-	-	-	
12	L3	Blank Empty Module	-	-	-	-	-	

SCHEDULE NUMBER 17

ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE

PROJECT: Sport Wales National Centre - Switchboard Replacement PROJECT No. : 10126 DATE: Jan-26

DISTRIBUTION BOARD REF: DB-19 PHASE: TPN LATEST REVISION: P02

ISOLATOR: No. OF WAYS: SUB MAIN REF:

DISTRIBUTION BOARD LOCATION: Rear of Main Reception

Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCB (A)/ Type	RCD/ RCBO	AFDD	P&N (mm ²)	CPC (mm ²)	Type	
1	L1	2 x Reception Heaters (Currently Isolated)	63/C						
1	L2	Air Handling Control Panel	50/C						
1	L3	DB-20 Sub-Main	63/C						
2	L1	Main Hall Seating	16/C						
2	L2								
2	L3								
3	L1	CCTV Security System	20/C						
3	L2	Fire Hold Open Device Femail Toilets	16/B						
3	L3	Reception Foyer Interactive Wall	32/B						
4	L1	Reception Foyer Lights	10/B						
4	L2	Reception Lights	10/B						
4	L3	Reception Lights	10/B						
5	L1	Reception Lights	10/B						
5	L2	Spotlight	6/B						
5	L3	Air Conditioning Opposite Caterng	32/C						
6	L1	Air Conditioning Room C5	32/C						
6	L2	Texecom Security Supply	6/B						
6	L3	Fire Alarm Panel	16/B						
7	L1	SPARE							
7	L2	SPARE							
7	L3	SPARE							
8	L1	SPARE							
8	L2	SPARE							
8	L3	SPARE							
9	L1	Reception deskk area Sockets	32/B	30					
9	L2	Operations Office Sockets	32/B	30					
9	L3	Lights Catering & Operations Office	10/B						
10	L1	Automatic Door, Temporary Vending Power	16/B	30					
10	L2	Lights C5 Office	16/B						
10	L3	External Bulkhead Lighting	10/B						
11	L1	External Spotlights	10/B						
11	L2	BT Phone hub -C5 (Isolated)	20/B	30					
11	L3	C5 Printer, Amplifier, Fridge & Kettle	20/B	30					
12	L1	C5 Ring Main , Set-top Box	32/B	30					
12	L2	C5 Ring Main	32/B	30					
12	L3	Twin Sockets near projector C5 side / Fridges Hwb	16/B	30					
13	L1	Automatic Door Overhead Heaters	20/B						
13	L2	Air Conditioning (Currently Isolated)	10/B						
13	L3	Computer Sockets	20/B						
14	L1	Extract Fans Squash Courts 1 & 2	10/B						
14	L2	Grab & Go Pendant Lights	16/B	30					
14	L3	SPARE							
15	L1	SPARE							
15	L2	SPARE							
15	L3	SPARE							
16	L1	SPARE							
16	L2	SPARE							
16	L3	SPARE							

SCHEDULE NUMBER	21
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**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-27	PHASE:	TPN	LATEST REVISION:	P02
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ISOLATOR:	125A	No. OF WAYS:		SUB MAIN REF:	
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DISTRIBUTION BOARD LOCATION:	Side Reception Store Room / Booking Office
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Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCB (A)/ Type	RCD/ RCBO	AFDD	P&N (mm ²)	CPC (mm ²)	Type	
1	L1	Lighting Male toilet and Scaffold Store	10/B						
1	L2	SPARE				25mm			
1	L3	Lights Ticket Office	10/B						
2	L1	SPARE							
2	L2	1st Floor Lift Foyer & Corridor lights	10/B						
2	L3	SPARE							
3	L1	FIRE ALARM SPUR	6/B						
3	L2	Female Toilet hand drier and Socket at exit Wall	32/B	30					
3	L3	1st Floor Jubilee Disabled WC lights and Panic Alarm	6/B						
4	L1	SPARE							
4	L2	Lighting at 1st floor Hockey Corridor	10						
4	L3	Lighting CR 7	6/B						
5	L1	Lighting at ground floor stairwell	10/B						
5	L2	Lighting 2nd Floor Stairwell	10/B						
5	L3	Lighting CR 7	6/B						
6	L1	External Lighting over reception	10/B						
6	L2	Lift Small Power	32/B	30					
6	L3	Disabled toilet hand dryer level 02	32/B						
7	L1	Side Reception Emergency Lighting	10/B						
7	L2	SPARE							
7	L3	Lighting CR8	10/B						
8	L1	Ground Floor Toilet Extract Fan	32/B						
8	L2	Sockets 1st Floor Changing Room	32/B	30					
8	L3	Lighting 1st Floor Female staff toilet and CR8	10/B						
9	L1	Lighting Female Toilet	10/B						
9	L2	Lighting Outside CR 7	10/B						
9	L3	Hand Drier at CR 9	32/B	30					
10	L1	Side reception lighting. Suspended emergency light by lifts	10/B						
10	L2	SPARE							
10	L3	Lighting at 2nd Floor CR 9							
11	L1	Hand Dryer CR 8	32/B	30					
11	L2	Lighting Stairwells	10/B						
11	L3	Sockets 2nd Floor Changing Room 9	32/B	30					
12	L1	Hand Drier Toilets & Staff Changing near CR 8	32/B	30					
12	L2	Hand Drier 2nd Floor Unisex Toilet	32/B	30					
12	L3	Hand Drier 2 Unisex Toilets near CR 9	32/B	30					
13	L1	SPARE							
13	L2	Hand Driers at front of CR-7	32/B	30					
13	L3	SPARE							
14	L1	SPARE							
14	L2	Hand Drier Male Toilet 1st Floor	32/B	30					
14	L3	Fire Door Release	6/B						
15	L1	SPARE							
15	L2	Hand Drier rear of CR 7	32/B	30					
15	L3	SPARE							
16	L1	Walkie Talkie emitter socket located in old lift motor room	32/B	30					
16	L2	Sockets at 1st Floor Hockey Corridor	32/B	30					
16	L3	SPARE							

SCHEDULE NUMBER	31
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**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	DB-32	PHASE:	SPN	LATEST REVISION:	P02
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ISOLATOR:		No. OF WAYS:	30	SUB MAIN REF:	
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DISTRIBUTION BOARD LOCATION:	Level 01 Coaches Room
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Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCB (A)/ Type	RCD/ RCBO	AFDD	P&N (mm ²)	CPC (mm ²)	Type	
1		SPARE							
2		SPARE							
3		Dishwasher	16/B	30					
4		SPARE							
5		Coaches Room Sockets	32/B	30					
6		Ring Main Office 1, 2,3 & Interview Room	32/B	30					
7		Taff 1 Wall & Screen	32/B	30					
8		SPARE							
9		SPARE							
10		Taff Meeting Room Lights	10/B						
11		Taff 2 Meeting Room MMP & Columns	32	30					
12		Office 4, 4b, 5 & 6 Sockets	32/B	30					
13		SPARE							
14		SPARE							
15		Gents Staff toilet 1st floor Hand Drier	16/B	30					
16		Ladies Staff toilet 1st Floor hand Drier	16/B	30					
17		Main hall balcony lights	10/B						
18		Lights - Office 5 & 6	16/B						
19		Lights - Office 4 & 4B	16/B						
20		Lights - Office 1, 2, 3 & 4A	10/B						
21		Office Corridor Lights	10/B						
22		Catering Store & staff Toilet Lighting	10/B						
23		Radial Sockets Video Conference Screens	20/B	30					
24		SPARE							
25		Key Pads	6/B						
26		SPARE							
27		Front Hub Room UPS	40/C						
28		SPARE							
29		SPARE							
30		SPARE							

SCHEDULE NUMBER	32
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**ELECTRICAL SCHEDULE
SUB CIRCUIT SCHEDULE**

PROJECT:	Sport Wales National Centre - Switchboard Replacement	PROJECT No. :	10126	DATE:	Jan-26
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DISTRIBUTION BOARD REF:	32A	PHASE:		LATEST REVISION:	P02
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ISOLATOR:	TBC	No. OF WAYS:	TBC	SUB MAIN REF:	
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DISTRIBUTION BOARD LOCATION:	TBC
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Circuit No.	Phase	Details of Load	Protective Device			Cable Specification			Rev
			MCB (A)/ Type	RCD/ RCBO	AFDD	P&N (mm ²)	CPC (mm ²)	Type	
1	L1	No Record details available exact amount, type and size to be confirmed on site	32/B	RCBO					
1	L2		32/B	RCBO					
1	L3		32/B	RCBO					
2	L1		32/B	RCBO					
2	L2		32/B	RCBO					
2	L3		32/B	RCBO					
3	L1		20/B	RCBO					
3	L2		20/B	RCBO					
3	L3		20/B	RCBO					
4	L1		20/B	RCBO					
4	L2		16/B						
4	L3		16/B						
5	L1		16/B						
5	L2		16/B						
5	L3		10/B						
6	L1		10/B						
6	L2		10/B						
6	L3		10/B						
7	L1		10/B						
7	L2		10/B						
7	L3		10/B						
8	L1								
8	L2								
8	L3								
9	L1								
9	L2								
9	L3								
10	L1								
10	L2								
10	L3								

Electrical Technical Schedule

DISTRIBUTION BOARD AND FINAL CIRCUIT SCHEDULE NOTES

Note	Details
1	For location of equipment, etc, refer to the contract drawings. For equipment shown on the contract drawings but not scheduled or vice versa, the Electrical Contractor shall allow in his tender price for the provision of suitable electrical supplies from local distribution boards.
2	All twin socket outlets to be supplied with 2 No. earthing terminals to comply with the requirements of BS7671. CPC conductors installed in a ring configuration and connected to separate earth terminals at the distribution board. The Electrical Contractor shall ensure that the BS requirements relating to high integrity earthing are met.
3	RCBO's are shown as single module, where twin module type are utilised the Contractor shall increase the distribution board size accordingly, to leave a quantity of spare ways as indicated.
4	Sub circuit installation to include final connection to all equipment, including free issue and Client supplied equipment.
5	The Contractor shall ensure that where additional circuits are installed, there is a spare capacity of 10% spare capacity or a minimum of 2 ways (whichever is greater).