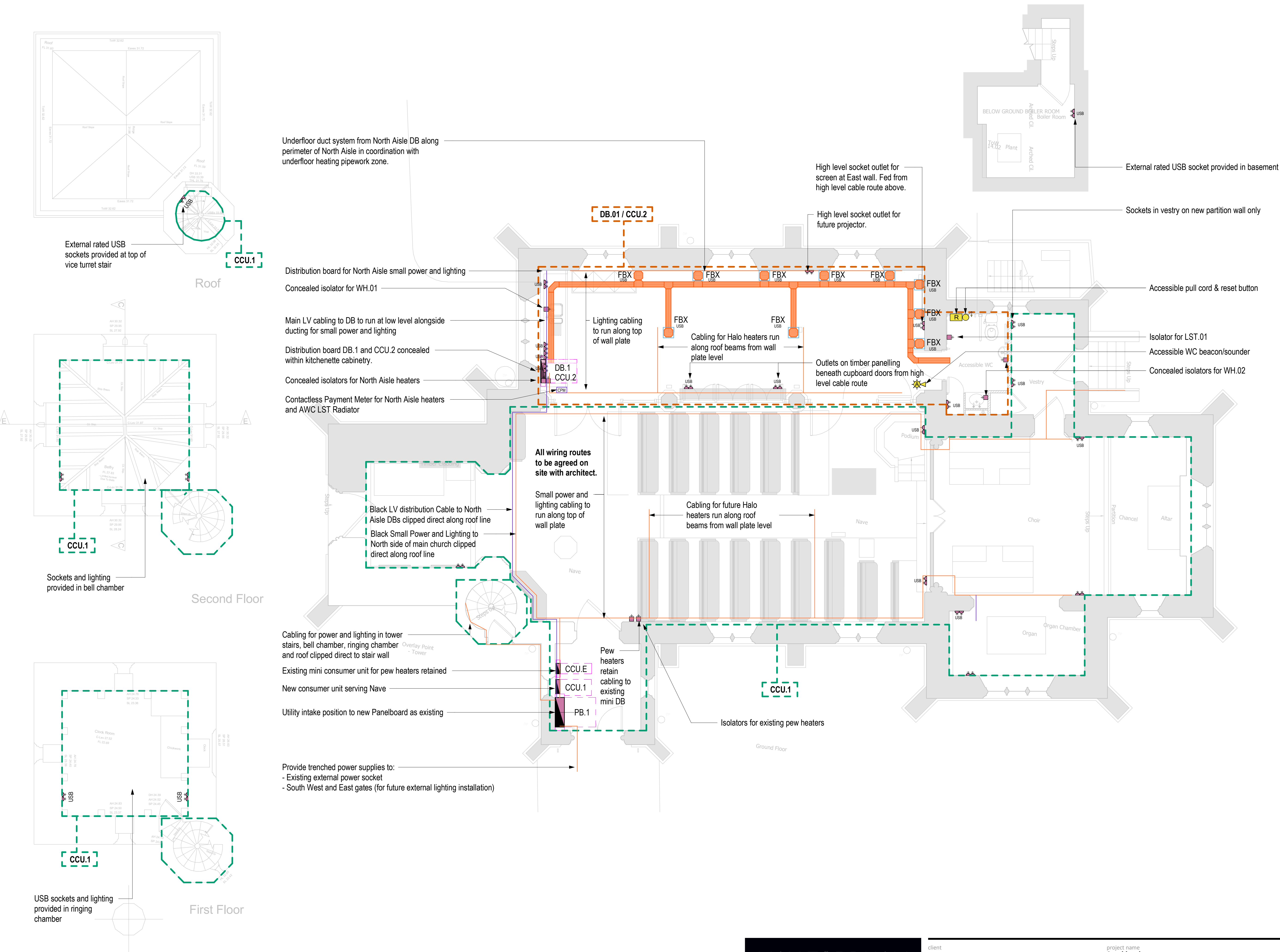




GENERAL NOTES

- Do not scale from this drawing.
- Print this drawing in colour.
- This drawing is to be read in conjunction with all other MXF documents (drawings, schedules and specification) along with other design team documentation.
- This drawing shows primary containment routes only. Where sizes are provided they are indicative, it is the contractor's responsibility to confirm all containment sizes. All secondary containment is to be designed and coordinated by the contractor.
- All final circuits are to be run within safe zones regardless of mechanical protection.
- All wiring routes to be agreed on site with architect.

KEY

- LV Distribution Cabling (Non-Life Safety) Route, tbc
- Small Power and Lighting Cabling Route, tbc
- Small Power and Lighting underfloor duct
- Floor box, containing 2No. double switched sockets
- Double Socket - Switched with USB
- Fused Connection Unit - Switched
- Fused Connection Unit - Switched
- Contactless Payment Meter
- Distribution Board
- Panel Board
- Accessible Pull Cord
- Accessible Sounder Beacon
- Accessible Pull Cord Reset Button

DISTRIBUTION BOARD COVERAGE ZONES

- DB.01 / CCU.2
- CCU.1

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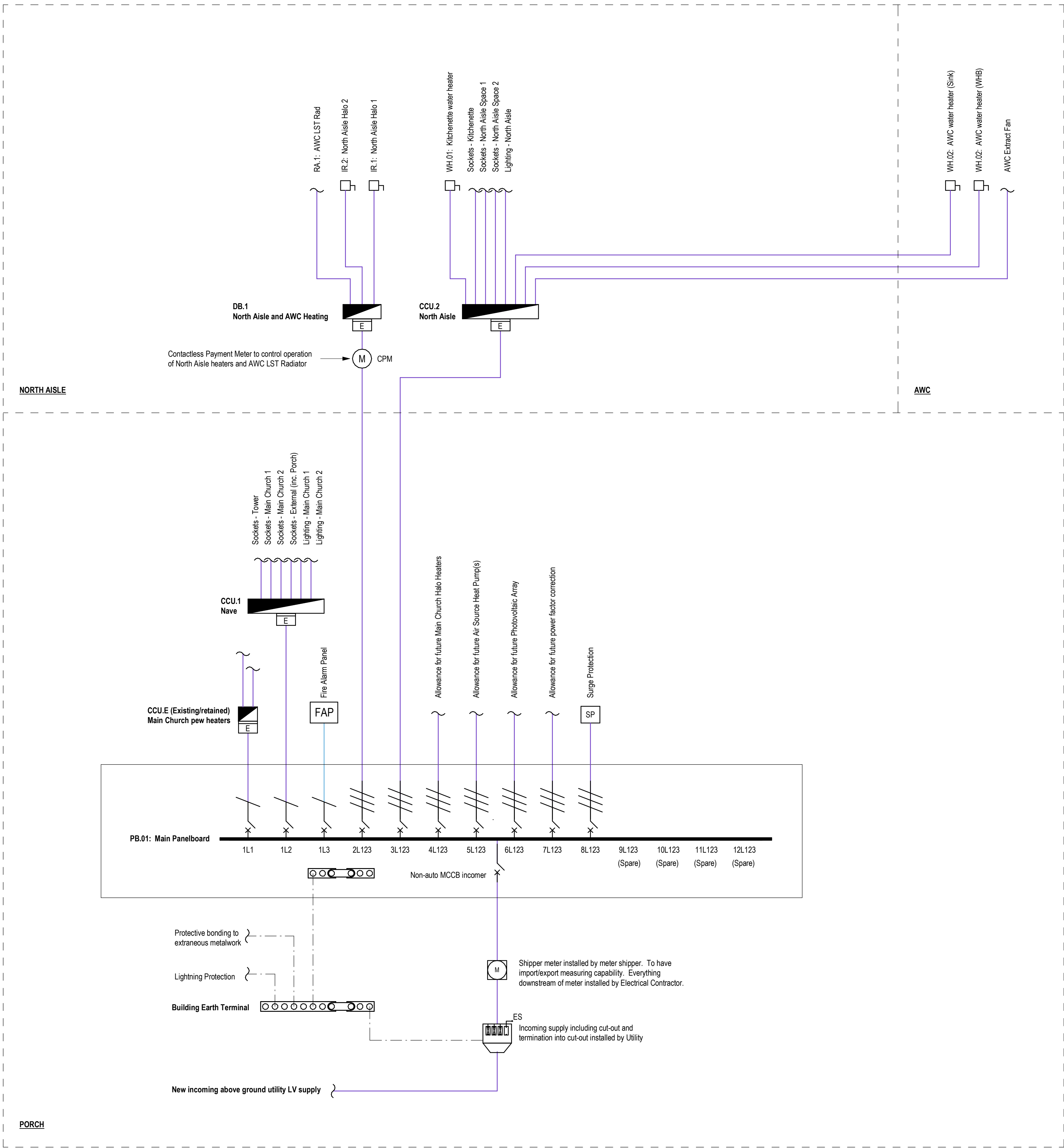
client: PCC of Stockland
job no. J7609
project leader: SR
scale at A1: 1 : 50
status code and description: S4 - Issued for Stage 3 Costing

project name: Stockland

issue date: 13/02/25
revision: P02
classification: Ss_70_00_00_00

drawing title: Combined Electrical and ELV
All Levels
Church

project code: J7609
orig. - MXF
volume - ZZ
level - 00
type - DR
role - E
number - 00100



GENERAL NOTES:

- This drawing should be read in conjunction with all other Max Fordham drawings, schedules and specifications and all other consultants' information.
- This drawing should be printed in colour.
- Do not scale from this drawing.

DRAWING SPECIFIC NOTES:

- All electrical works are to be designed, installed and tested to BS7671:2018 +A2:2024 Corrigendum (May 2023) - 18th Edition of the Wiring Regulations incorporating Amendment 2:2022, Corrigendum 2023.
- Switchpanels, Panelboards and Distribution Boards to be front accessed, suitable for wall mounting, complying with BS 61439-3.
- Equipment and components shall be Schneider Electric and comply with BS EN 60947, BS EN 60898, BS EN 61009.
- Engraved traffolyte labels to be fitted to all panels, boards and components, black lettering on white background.
- Full circuit charts to be provided and clearly displayed at each panel and board.
- The design shall make use of cascading protection of downstream devices by upstream devices against high fault currents.
- Final circuit cable sizing to be carried out as a CDP element.
- AFDD's on socket outlets only.
- Contractor to ensure phases are balanced.
- FAP supplies tbc

KEY

- LV Distribution Cable
- Fire Rated Cable
- Circuit Breaker Suitable for Isolation
- Single Phase
- Phase III
- FAP Fire Alarm Panel
- SP Surge Protection
- PFC Power Factor Correction
- Disconnecter
- M Meter
- E Main Power Meter (Type M1)
- Distribution Board/Consumer Unit
- Distribution Board
- Panel Board
- Earth Bar
- Utility Power Meter
- Incoming Service Head

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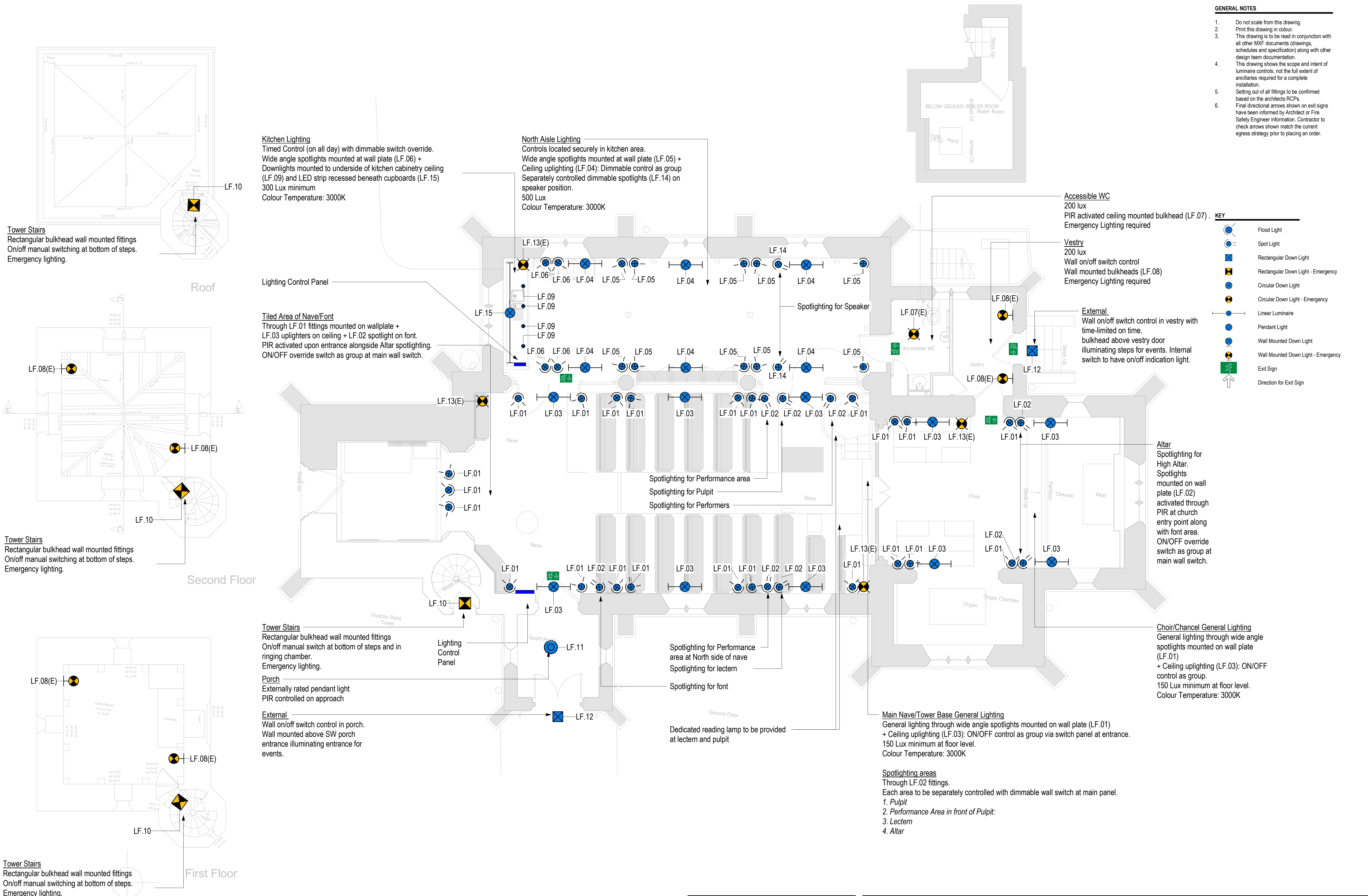
client: PCC of Stockland
job no: J7609
project leader: SR
scale at A1: NTS
status code and description: S4 - Issued for Stage 3 Costing

project name: Stockland

issue date: 13/02/25
revision: P01
classification: Ss_70_30_45_45

drawing title: Low Voltage Distribution Schematic

project code: J7609
orig: - MXF - ZZ - XX - DR - E - 22200



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client:
PCC of Stockland

job no. project leader
J7609 SR

scale at A1
1 : 50

status code and description
S4 - Issued for Stage 3 Costing

project name
Stockland

issue date
13/02/25

revision
P02

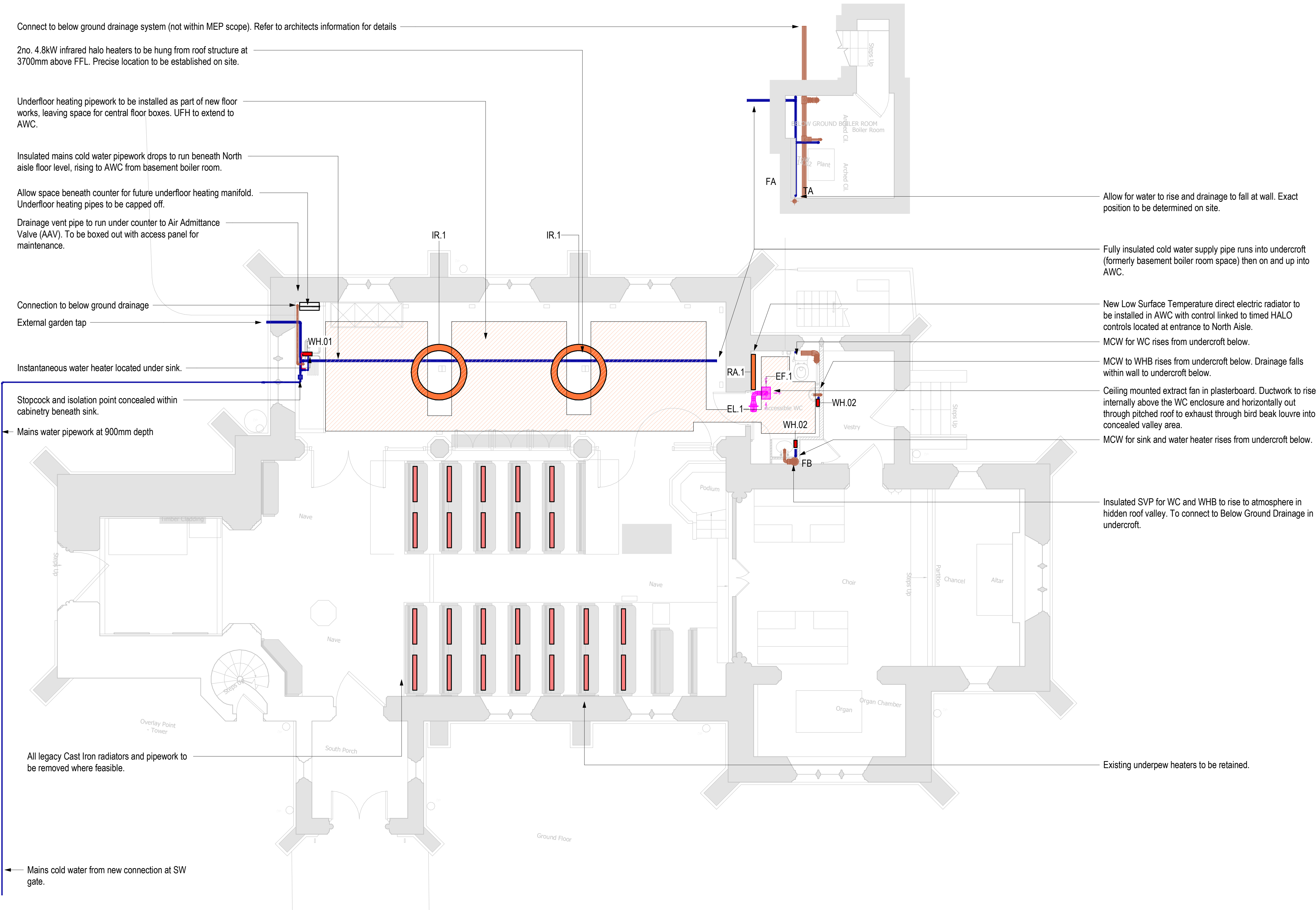
classification
Ss_70_80_00_00

drawing title
Lighting

All Levels

Church

project code orig. volume level type role number
J7609 - MXF - ZZ - 00 - DR - E - 30100



GENERAL NOTES

1. Do not scale from this drawing.
2. Print this drawing in colour.
3. This drawing is to be read in conjunction with all other MXF documents (drawings, schedules and specification) along with other design team documentation.
4. Structural Engineer to advise on roof loading for hanging HALO heaters. Roof structure to be capable of supporting 4x overall load of units.
5. All pipework below ground to be insulated.

KEY

EF.xx	Extract Fan
EL.xx	Exhaust Louvre
IR.xx	Infrared Heater
WH.xx	Instantaneous Water Heater
IR.xx	Infrared Heater
RA.xx	Direct Electric Radiator
AAV	Automatic Air Vent

	Infrared HALO Heater
	Direct Electric LST Radiator
	Existing Underpew Heater
	Proposed Under Floor Heating zone
	Instantaneous Water Heater
	Mains Cold Water
	Domestic Hot Water Flow
	Foul Water Drainage
	Ventilation General Extract
	Airflow Inward

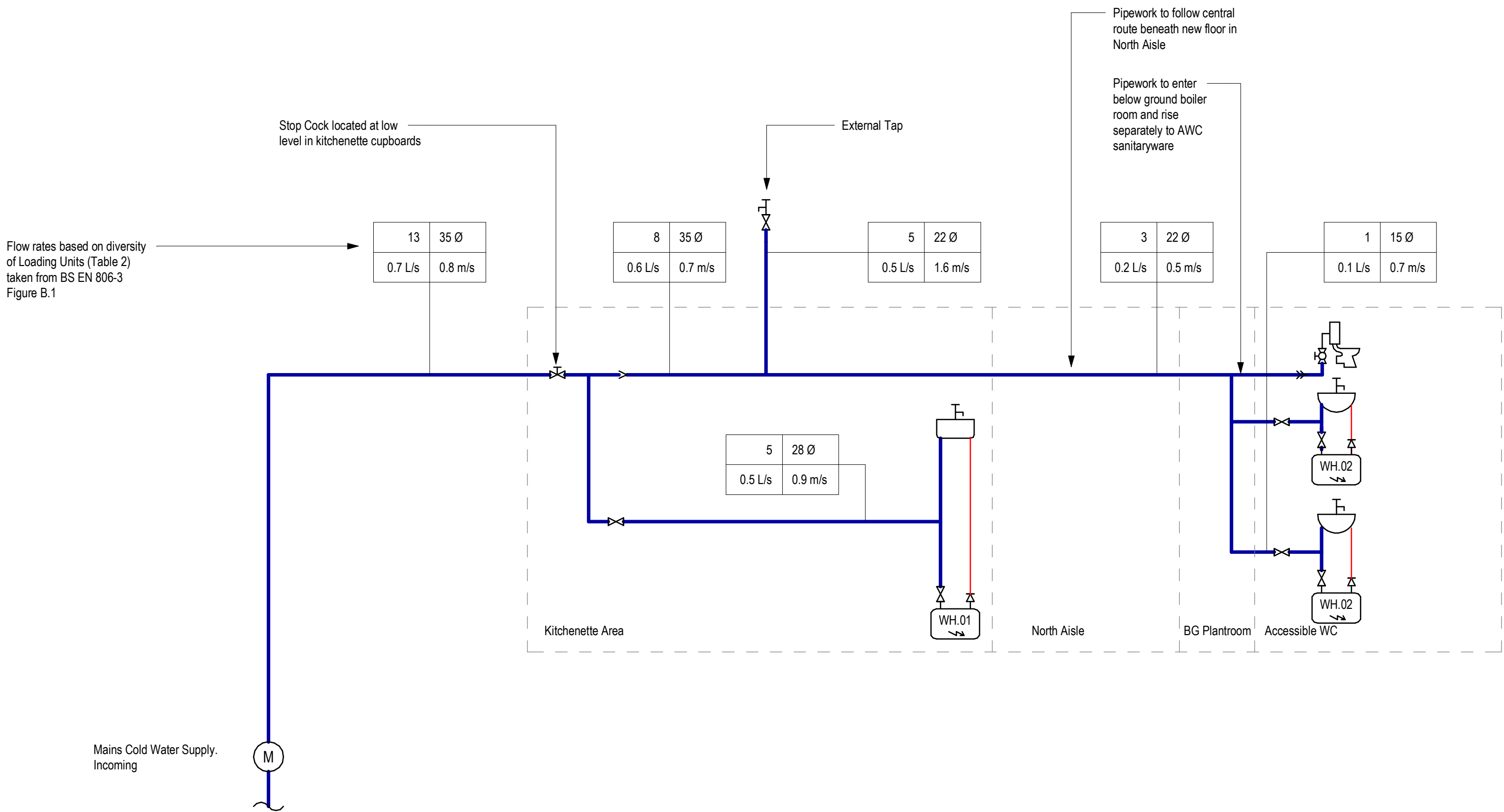
MAX FORDHAM

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client: PCC of Stockland
job no: J7609 project leader: SR scale at A1: 1 : 50
status code and description: S4 - Issued for Stage 3 Costing

project name: Stockland
issue date: 13/02/25 revision: P02 classification: Ss_60_00_00_00

drawing title: Combined Mechanical
All Levels
Church
project code: J7609 - MXF - ZZ - 00 - DR - M - 00100



NOTES

- Do not scale from this drawing.
- Print this drawing in colour.
- This drawing is to be read in conjunction with all other MXF documents (drawings, schedules and specification) along with other design team documentation.

KEY

- Mains Cold Water
- Domestic Hot Water - Flow
- > Flow Direction Arrow
- ⋈ Outline
- ⌊ Wash Hand Basin
- ⌊ Sink
- ⌊ WC
- ⌊ Electric Water Heater - Instantaneous
- » Backflow Protection Valve
- T Isolation Valve / Gate Valve
- ⌊ Isolation Valve
- ⌊ Tap
- ⊙ Meter

0.0 LU	0 Ø
0.0 L/s	0.0 m/s

Pipework Annotation

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client:
PCC of Stockland

job no. project leader scale at A1
J7609 SR NTS

status code and description
S4 - Issued for Stage 3 Costing

project name
Stockland

issue date revision classification
13/02/25 P01 Ss_55_00_00_00

drawing title
**Piped Supply (Detail)
Church - Schematic**

project code orig. volume level type role number
J7609 - MXF - ZZ - XX - DR - P - 20200

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

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TABLE 1: SCHEDULE OF DISTRIBUTION EQUIPMENT

REF	LEVEL	GENERIC AREA SERVED	LOCATION	SUPPLIED FROM	TYPE (SEE TABLE 2)	NOTES
PB.01	Ground Floor	Whole Building – Primary Supply	Ground Floor Porch	National Grid Cut out	Type 2A	
CCU.E	Ground Floor	Existing Pew Heaters	Ground Floor Porch	PB.1	-	Retain existing
CCU.1	Ground Floor	Nave	Ground Floor Porch	PB.1	Type 10A	Nave Small Power and Lighting
DB.01	Ground Floor	North Aisle	Kitchenette	PB.1	Type 3A	North Aisle Infrared heaters and AWC LST Radiator
CCU.2	Ground Floor	North Aisle	Kitchenette	PB.1	Type 10A	North Aisle Small power and Lighting

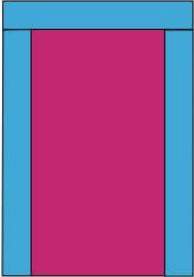
TABLE 2: SCHEDULE OF DISTRIBUTION EQUIPMENT TYPES

REF	ITEM	MANUFACTURER / MODEL	NO. OF WAYS	BUSBAR RATING	CABLE ENTRY TOP / BOTTOM	BUSBAR SHORT CIRCUIT WITHSTAND	IP RATING	INCOMING DEVICE	MAX. OUTGOING CABLE SIZE (mm²)	OVERALL DIMENSIONS (mm)	COLOUR	NO. / TYPE OF METERS	NOTES / ACCESSORIES
TYPE 2A	PANEL BOARD	SCHNEIDER ELECTRIC / 400/630A POWERPACT 4 – STYLE D	MCCB 12 ways	630A	To suit Location	36kA, 1s	IP31	400A (4-POLE) Switch Disconnecter with Rotary Padlockable Handle		36SP (12TP) 1896H 850W 260D	CREAM	As shown on LV schematic	Form 3b Type 2. Rotary handle with inbuilt padlocking facilities. Provide side cable extension/metering boxes. PM5111 outgoing meters as shown LV schematic. Provide lock, terminal shields and all blanking accessories etc.

Combined Electrical Equipment and Light Fittings Schedule
Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

TYPE 3A	FINAL DISTRIBUTION BOARD (Hybrid AFDD)	SCHNEIDER ELECTRIC / ACTI9 P ISOBAR TP&N TYPE B AFDDs & MCBs	AFDD+MCB 6+8TP	250A	Bottom	Unconditional AC 50Hz 400V: 17kA,200ms Conditional: 25kA	IP3X external IP2X internal	125A (4-POLE) switch disconnecter	MCB 25mm ² rigid 16mm ² flexible AFDD 16mm ² rigid 10mm ² flexible	6+8 TP 700H 470W 139D Overall dimensions if 100mm trunking provided on sides and top: 962H 670W 139D	CREAM	Provide Schneider Powertag meters to outgoing ways as required for compliance with Building Regulations Part L.	Bottom section includes neutral and live busbar tabs for AFDDs. Top section for iC60H outgoing ways. 
Type 10A	Consumer Units	SCHNEIDER ELECTRIC / EASY9 PLUS SP&N	Usable Ways 20 NB that AFDD devices in this range require 2 ways.	NA as Din Rail	To suit Location	NA as Din Rail Arrangement NB that devices in this range have a short circuit withstand of 6kA.	IP3X	2 Pole 100A	MCB 25mm ² rigid 16mm ² flexible AFDD 16mm ² rigid 10mm ² flexible	20 useable ways 537W 277H 120D	RAL9003	NA	Blue = Trunking Pink = Hybrid AFDD Provide Schneider Electric Acti9 iC60H and Acti9 Active RCBO/AFDD outgoing protective devices. ACTI9 P has Plug-on neutral wireless (PoN) RCBO and earth function capability. Provide lock, terminal shields and all blanking accessories etc. BSEN 61439-3 Compliant Provide Type 2 surge protection device and associated 20A MCB (Total of 3 ways required) Provide semi flush frame where required Provide lock, terminal shields and all blanking accessories etc

Combined Electrical Equipment and Light Fittings Schedule Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

TABLE 3: SCHEDULE OF LIGHT FITTINGS

REF	IMAGE	DESCRIPTION	MANUFACTURER / MODEL / REF	LAMP / POWER	LUMENS/ COLOUR TEMP	TRIM / FINISH / ACCESSORIES	MOUNTING DETAILS	DIMENSIONS (LxWxH OR dia.xH) mm	NOTES
LF.01		Track mounted spotlight for nave and choir general lighting	Hacel Encore Track Power Spot CRI90 , T_1665_A_LED314	LED 15.6 W	2105 Lm (with 39 degree wide beam reflector) 3000K CRI 90	Black finish	Three circuit track mounted on wall plate	80mmØ x 120mm	39 degree wide beam reflector
LF.02		Track mounted adjustable beam accent spotlight for performance area, pulpit, lectern, altar, font and North Aisle speaker area	Hacel Aart Midi Power Spot (CRI 90) TT1275 A LED325	LED 28.8 W Non-Dim version	3056 Lm 3000K CRI 90 Adjustable beam angle from 10° to 60°	Black finish. Die cast construction Suitable for flammable surfaces Pan and tilt Protective glass fitted as standard	Three circuit track mounted on wall plate	95mmØ x 155mm	Adjustable beam angle from 10° to 60° to be adjusted on site to spotlighting requirements.
LF.03		Track mounted wallwasher for ceiling illumination in Main Nave,	Hacel Flite Wallwasher (CRI 80) TT1208 A LED329	LED Lamp power 14.5 W System power 32.9 W Non-Dim version	2414lm 3000K	Black finish Extruded aluminium construction Die cast construction Suitable for flammable surfaces Pan and tilt	Three circuit track mounted on wall plate	587mm/81mm/22 mm	Pan and tilt on installation to suit ceiling illumination requirements
LF.04		Track mounted wallwasher for ceiling illumination in main nave, North aisle and chancel	Hacel Flite Wallwasher (CRI 80) TT1208 * LED329	LED Lamp power 14.5 W System power 32.9 W Dimming Version	2414lm 3000K	Black finish Extruded aluminium construction Die cast construction Suitable for flammable surfaces Pan and tilt	Three circuit track mounted on wall plate	587mm/81mm/22 mm	Pan and tilt on installation to suit ceiling illumination requirements

Combined Electrical Equipment and Light Fittings Schedule
Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

LF.05		Track mounted spotlight for North aisle general lighting	Hacel Azuma Midi Power Spot (CRI 90), TT478 * LED325	LED 28.1 W <i>Dimming Version</i>	3645 lm (25 degree configuration) 3000K	Black finish Die cast construction Suitable for flammable surfaces Pan and tilt Reflector options available Anti glare baffle available CRI 90	Three circuit track mounted on wall plate	93mmØ x 154mm	
LF.06		Track mounted spotlight for Kitchenette area general lighting	Hacel Encore Track Power Spot CRI90, T_1665_*LED319	LED 21.1 W <i>Dimming Version</i>	2774lm 3000K	Black finish Pan and tilt Protective glass fitted as standard	Three circuit track mounted on wall plate	80mmØ x 120mm	
LF.07(E)		Ceiling mounted bulkhead. Non maintained emergency fitting.	Hacel Pebl Surface (CRI 80) SD898 * LED306. Emergency	LED Lamp power 6 W System power 7.1 W	1124lm 3000K	Die cast construction Opal polycarbonate diffuser Suitable for flammable surfaces IP64 option available RAL.xx colour tbc with Architect prior to order.	Surface (ceiling) mounted	304Ø x 106	Supplied as option with 3hr duration backup battery.
LF.08(E)		Wall light for vestry, ringing chamber and bell chamber. Non maintained emergency fitting.	Hacel Pebl Wall Light & MW (CRI 80) WL1165 * LED306	LED Lamp power 6 W System power 7.1 W	1124 lm 3000K	Die cast construction Opal polycarbonate diffuser Suitable for flammable surfaces IP64 option available RAL.xx colour tbc with Architect prior to order.	Surface (wall) mounted	304Ø x 106	Supplied as option with 3hr duration backup battery.
LF.09		Recessed micro downlighter for kitchenette task lighting recessed in soffit of cabinetry	Hacel (CRI 80) ID1287 * LED305	LED Lamp power 5W System power 5.6W <i>Dimming Version</i>	745 lm 3000K CRI90	RAL.xx colour tbc with Architect prior to order.	Recessed	100mmØ x 1.2mm (H-surface), 88mm (H-within ceiling)	To be controlled with general kitchenette lighting

Combined Electrical Equipment and Light Fittings Schedule Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

LF.10		Rectangular IP65 bulkhead with integrated 3 hour, manual test emergency lighting for tower stair, ringing and bell chambers	Thorn Escort 800 840 HF E3	LED 7.3W	800lm 3000K	Aluminium body anodised or painted to desired colour. RAL.xx colour tbc with Architect prior to order.	Surface (wall) mounted	352mm x 102mm x 79mm	
LF.11		External pendant for SW porch	Norlys Lofoten Coastal Box Pendant in Black with Clear Glass Panels Product Code: LOFOTEN8-BLK	Requires 1 x 60w Max E27 Lamp or LED equivalent IP44 Rated	3000K Lamp to be used	Black finish Electro Galvanised Steel with Powder Coating Clear glass panels 3 year warranty against severe corrosion	Ceiling mounted pendant	Min Drop 435mm max Drop 930mm - Width 305mm	
LF.12		External wall mounted light outside SW porch and outside vestry. Manually switched.	Norlys Lofoten Coastal Box Wall Light in Black with Clear Glass Panels Product Code: LOFOTEN-WALL-BLK	Requires 1 x 60w Max E27 Lamp or LED equivalent IP44 Rated	3000K Lamp to be used	Black finish Electro Galvanised Steel with Powder Coating Clear glass panels 3 year warranty against severe corrosion	Surface (wall) mounted external	284mm x 190mm x 300mm	
LF.13(E)		Dedicated high output non maintained emergency fitting - remote battery option	Philip Payne UNI PRO REMOTE AVURP509DSW	LED 9W	1355lm 4000K	Polycarbonate Housing. RAL.xx colour tbc with Architect prior to order.	Surface mounted remote batteries concealed from view.	Ø123 mm light 277 x 152 x 73 mm battery	Supplied as option with 3hr duration backup battery and DALI monitoring. Architect to confirm colour/finish.
LF.14		Track mounted adjustable beam accent spotlight for performance area, pulpit, lectern, altar, font and North Aisle speaker area	Hacel Aart Midi Power Spot (CRI 90) TT1275 * LED325	LED 28.8 W <i>Dimming Version</i>	3056 Lm 3000K CRI 90 Adjustable beam angle from 10° to 60°	Black finish. Die cast construction Suitable for flammable surfaces Pan and tilt Protective glass fitted as standard	Three circuit track mounted on wall plate	95mmØ x 155mm	Adjustable beam angle from 10° to 60° to be adjusted on site to spotlighting requirements.

Combined Electrical Equipment and Light Fittings Schedule Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

LF.15		Flexible LED strip within recessed aluminium profile for underside of kitchen cupboards.	Rovus Flexi-strip Vegas Cob Express 3m 3000K IP20 LED strip Product code RVC3K3 With LEDspace ALU02 3m Recessed LED Profile 23.2 x 8mm	LED 7.7 W 3000K IP20 <i>Dimming Version</i>	750 Lm 3000K CRI80	Install strip within black aluminium recessed profile with opal diffuser	Recessed into underside of kitchen cupboards	LED strip: 3m (L) x 8mm (W) x 2mm (H) Recessed Profile: 3x1m (L) x 17.1mm (W-base), 23.2mm (W-inc.recess lip), 8mm (H)	To be cut to size on site in conjunction with architect.
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Combined Electrical Equipment and Light Fittings Schedule Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

TABLE 4: SCHEDULE OF LIGHTING CONTROLS

ZONE	CONTROL STRATEGY	CONTROL LOCATION
MAIN CHURCH DIMMER SWITCH PANEL AT CHURCH ENTRY		
Tiled area of nave around font Downlighting	When set at AUTO, PIR activated ON on church entry, Long period absence activated OFF ON/OFF/AUTO switch override at main switch panel	Switch panel at entry
Spotlighting on altar	When set at AUTO, PIR activated ON on church entry, Long period absence activated OFF ON/OFF/AUTO switch override at main switch panel	Switch panel at entry
Main Nave General Downlighting (Including Tower base)	ON/OFF switch control as group	Switch panel at entry
Main Nave and Chancel Uplighting	ON/OFF switch control as group	Switch panel at entry
Choir/Chancel General Lighting	ON/OFF switch control as group	Switch panel at entry
Pulpit	ON/OFF switch control	Switch panel at entry
Performance Area	ON/OFF switch control as group	Switch panel at entry
Lectern	ON/OFF switch control	Switch panel at entry
NORTH AISLE DIMMER SWITCH PANEL IN NORTH AISLE KITCHENETTE CABINETY		
Kitchenette Downlighting	Time controlled to be ON during opening hours with dimmable switch override at North Aisle switch panel	Main North Aisle switch dimmer panel in kitchenette cabinetry
North Aisle General Downlighting	Dimmable switch control as group	Main North Aisle switch dimmer panel in kitchenette cabinetry
North Aisle General Uplighting	Dimmable switch control as group	Main North Aisle switch dimmer panel in kitchenette cabinetry
North Aisle Speaker Lighting	Dimmable switch control as group	Main North Aisle switch dimmer panel in kitchenette cabinetry
OTHER CIRCUITS		
Accessible WC	Constant output PIR activated ON, Absence activated OFF	PIR, no switch interface
Vestry	Constant output ON/OFF Wall switch	Wall switch at vestry entrance
External Vestry Steps	Constant output ON/OFF Wall switch with timer to switch OFF after specified time.	Wall switch at vestry entrance with ON/OFF indicator light and timer to switch off after specified time.
External SW	Constant output ON/OFF Wall switch	Wall switch at SW porch
SW Porch	PIR activated ON on porch entry Absence activated OFF	PIR, no switch interface
Tower	Constant output. Group controlled via simple ON/OFF switch	Simple ON/OFF switch at bottom of tower stairs. + Simple ON/OFF switch in ringing chamber.

Combined Electrical Equipment and Light Fittings Schedule
Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

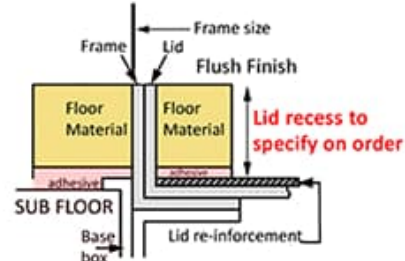
Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

TABLE 5: CONTACTLESS PREPAYMENT METER

REF	DESCRIPTION / TYPE	MANUFACTURER & REFERENCE	DUTY / CAPACITY	LOCATION	TECHNICAL DETAILS/ NOTES
CPM	Contactless Payment Meter	JSG Metering Solutions TIMCP Contactless Payment Timer	Max Current: 50A	Kitchenette	110(d) x 145(w) x 250(h) Wall mounted. 

TABLE 6: FLOOR BOXES

REF	IMAGE	TYPE	MANUFACTURER / RANGE	APPEARANCE	MOUNTING	NOTES	SAMPLE REQUIRED
FBX		Recessed floor box. Containing: 1 x 2no. switched power sockets	Cableduct Minima	Finish: Satin Polished Stainless Steel	Flush-mounted and recessed in the floor. (Single compartment) 250 x 148mm Base Box depth: 85mm (excluding lid – make allowance)	To have metal cable flaps without cableduct logo Dual earth terminals required for all circuits with HIGH INTEGRITY EARTHING. 	Yes

Combined Electrical Equipment and Light Fittings Schedule Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

Notes

1. This schedule represents a RIBA Stage 3 level of design. The system/s shown are to be developed and completed by the contractor as a Contractor Design Portion of a traditional contract.
2. All equipment is scheduled on an “or CA approved equivalent” basis. If the contractor proposes alternative equipment to that scheduled, they shall provide clear and concise evidence of how the alternative equipment matches each and every performance requirement of the equipment included on the schedule, drawings and specification. The onus is on the contractor to confirm equivalence.
3. All electrical works are to be designed, installed and tested to BS7671:2018 + A2:2024 + Corrigendum 1:2023 (18th Edition of the Wiring Regulations incorporating Amendment 2 and Corrigendum 1).
4. All devices are Schneider
5. Table generally shows minimum circuiting requirements. Contractor to carry out full design with sufficient circuits for property in question.
6. For circuits with emergency lighting, take unswitched live to all fittings on the circuit.
7. All MCBs are Wylex 6kA (AFDD)/10kA (RCBO) in service breaking capacity.
8. All CPCs to be equal size to the phase conductor size unless specified otherwise.
9. All cables to be LSZH insulated unless indicated.
10. Electrical Contractor to supply and install a laminated paper distribution schedule within a plastic wallet installed inside and securely fixed to the door.
11. Supply and install engraved Traffolyte labels securely fixed to the front door of the distribution board.
12. Generally cabling is to be clipped direct and appropriately supported within the ceiling void. Where dropping within the wall build up to an accessory or similar, cabling is to be contained within "hockey stick" containment within the wall build up with capping.
13. All connected non-linear loads below 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-2.
14. All connected non-linear loads above 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-4.
15. All light fittings and gear must have a minimum power factor of 0.9.
16. All Lighting control gear / ballasts to operate safely on 230V +10%/-6% unless otherwise indicated. Contractor to verify & confirm compliance prior to ordering & installation on site.
17. Contractor to ensure phases are balanced.
18. AFDD on socket outlets only.

Rev	Date	Status	Description	Engineer	Project Leader
P01	30/01/25	A1	Draft for comments	BA	SRW
P02	14/02/25	S4	Issued for Stage 3 Costing	BA	SRW

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Combined Electrical Equipment and Light Fittings Schedule
Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

Notes

- 19. This schedule represents a RIBA Stage 3 level of design. The system/s shown are to be developed and completed by the contractor as a Contractor Design Portion of a traditional contract.
- 20. All equipment is scheduled on an “or CA approved equivalent” basis. If the contractor proposes alternative equipment to that scheduled, they shall provide clear and concise evidence of how the alternative equipment matches each and every performance requirement of the equipment included on the schedule, drawings and specification. The onus is on the contractor to confirm equivalence.
- 21. All electrical works are to be designed, installed and tested to BS7671:2018 + AMD2:2022 + Corrigendum 1:2023 (18th Edition of the Wiring Regulations incorporating Amendment 2 and Corrigendum 1).
- 22. All devices are Schneider
- 23. Table generally shows minimum circuiting requirements. Contractor to carry out full design with sufficient circuits for property in question.
- 24. For circuits with emergency lighting, take unswitched live to all fittings on the circuit.
- 25. All MCBs are Wylex 6kA (AFDD)/10kA (RCBO) in service breaking capacity.
- 26. All CPCs to be equal size to the phase conductor size unless specified otherwise.
- 27. All cables to be LSZH insulated unless indicated.
- 28. Electrical Contractor to supply and install a laminated paper distribution schedule within a plastic wallet installed inside and securely fixed to the door.
- 29. Supply and install engraved Traffolyte labels securely fixed to the front door of the distribution board.
- 30. Generally cabling is to be clipped direct and appropriately supported within the ceiling void. Where dropping within the wall build up to an accessory or similar, cabling is to be contained within "hockey stick" containment within the wall build up with capping.
- 31. All connected non-linear loads below 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-2.
- 32. All connected non-linear loads above 16A per phase (3.7kW single phase, 11kW three phase) must comply with the harmonic emission limits given in BSEN:61000-3-4.
- 33. All light fittings and gear must have a minimum power factor of 0.9.
- 34. All Lighting control gear / ballasts to operate safely on 230V +10%/-6% unless otherwise indicated. Contractor to verify & confirm compliance prior to ordering & installation on site.
- 35. The requirement for Arc Fault Detection Devices (AFDD) was introduced by the 18th edition of the wiring regulations BS 7671:2018 to provide additional protection against high-impedance / low current arc faults which could result in fire.
- 36.

Rev	Date	Status	Description	Engineer	Project Leader
P01	30/01/25	A1	Draft for Review and Comment	BA	SRW
P02	13/02/25	S4	Issued for Stage 3 Costing	BA	SRW

MAX FORDHAM

Combined Electrical Equipment and Light Fittings Schedule
Dwg #: J7609-MXF-XX-XX-SH-E-00000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: Chantrey Conservation Architects Ltd
Issue Status: S4 – Issued for Stage 3 Costing

TABLE 1. MECHANICAL EQUIPMENT

REF	DESCRIPTION / TYPE	IMAGE	MANUFACTURER & REFERENCE	TECHNICAL DETAILS/ NOTES
IR.1	North Aisle HALO Infrared Heater		Herschel HALO IR-4800-D	4.8kW 220-240V 50/60Hz IP20 Model with Décor but without LEDs Dimensions without LEDs: 1410 (w) x 1100 (h) x 110 (d) Provide each with Herschel APX Controller Weight: 27kg Wired as single circuit. Ceiling suspension kit not supplied. Cabling not included. Terminal box in top section for connection. Hanging mechanism to be capable of handling 4x weight of heater. <i>Halo heaters to be controlled in conjunction with RA.1 via Contactless payment timed meter at kitchenette entrance. Payment to turn heaters on. Heaters to turn off when meter timer runs out. APX controller to allow control of power output to 33%, 66% or 100%.</i>
RA.1	AWC LST Radiator		Radiwarm Safe Touch Electric LST Compact Radiator	Dimensions: 700 (h) x 900 (w) x 178 (d) Heat Output: 1138 W Direct Electric. Casing not to exceed 43 degrees White Finish. To be supplied with RFC Radio Frequency Controller located at North Aisle entrance. <i>AWC LST Radiator to be controlled in conjunction with IR.1 via Contactless payment timed meter at kitchenette entrance. Payment to turn radiator on. Radiator to turn off when meter timer runs out.</i>
EF.1	AWC Extract Fan		NUAIRE OPUS 60 T – ESPF 15 l/s continuous 30 l/s boost	Dimensions: 225 (h) x 307 (w) x 154 (d) Recessed in AWC ceiling (95mm spigot). Ecosmart speed control on local PIR. (No extract grille required).
EL.1	AWC Exhaust Louvre		Lindab AV Bird beak 150mm 45degrees	45 degree exhaust air stud with internal bird protection net. 100mm diameter. Galvanised sheet metal.

Combined Mechanical and Public Health Equipment Schedule
Dwg #: J7609-MXF-XX-XX-SH-J-30000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: **Chantrey Conservation Architects Ltd**
Issue Status: S4 – Issued for Stage 3 Costing

TABLE 2. PUBLIC HEALTH EQUIPMENT

REF	DESCRIPTION / TYPE	MANUFACTURER & REFERENCE	DUTY / CAPACITY	LOCATION	TECHNICAL DETAILS/ NOTES
WH.01	DHW production. Electronic instantaneous undersink water heater. Single WHB.	Zip InLine ES4	Power Rating: 4.4kW 230V 50Hz	Accessible WC	80(d) x 187(w) x 135(h) 1.3 kg Wall mounted. White. Water Pressure: Min 0.45 bar - Max 10.0 bar Water connection: 1/2" BSP IP25 Power Supply: Double pole switch disconnecter. 
WH.02	DHW production. Electronic instantaneous undersink water heater. Single kitchenette sink.	Zip InLine DEX12 NEXT Instantaneous 11.5kW	Power Rating: 11.5 kW 230V 50Hz Temperature uplift: 39C at 4 l/m, 31C at 5 l/m.	Kitchenette	96(d) x 239(w) x 468(h) 4.2 kg (filled) Wall mounted. White. All pipework to be insulated. Water Pressure: Min 2 bar - Max 6 bar Flow Rate: Min 1.5 l/m - Max 5 l/m Max. operating pressure: 6 bar. Temperature Increase at maximum flow: 28C/38C IP25 Nominal Rated Current: 50A. Water connections, inlet/outlet: 1/2" BSP 

Combined Mechanical and Public Health Equipment Schedule
Dwg #: J7609-MXF-XX-XX-SH-J-30000 Rev P02

Stockland Bristol, St Mary Magdalene

Architect: **Chantrey Conservation Architects Ltd**
Issue Status: S4 – Issued for Stage 3 Costing

Notes

- 1. Contractor to ensure that the catalogue number is consistent with the description prior to order.
- 2. This schedule is to be read in conjunction with MFLLP specification.

Rev	Date	Status	Description	Engineer	Project Leader
P01	30/01/25	A1	Draft for Review and Comment	BA	SRW
P02	13/02/25	S4	Issued for Stage 3 Costing	BA	SRW

MAX FORDHAM

Combined Mechanical and Public Health Equipment Schedule
Dwg #: J7609-MXF-XX-XX-SH-J-30000 Rev P02

						Day	30	13			
						Month	01	02			
						Year	25	25			
						Status	S3	S4			
Document Title			Document Number			Type	Scale	Size	Rev	Dated Issue Revisions	
Combined Electrical and ELV Ss_70_00_00_00											
Combined Consumer Unit, Electrical Equipment and Light Fittings Schedule			7609-MXF-XX-XX-SH-E-00000			WD	nts	A3	P02	P01	P02
Combined Electrical and ELV - All Levels			7609-MXF-ZZ-00-DR-E-00100			R24	1:50	A1	P02	P01	P02
Multiple/Combined Services PM_40_40_15											
Combined Mechanical and Public Health Equipment Schedule			7609-MXF-XX-XX-SH-J-30000			WD	nts	A3	P02	P01	P02
Stockland Bristol St Mary Magdalene - MEP Specification and Preliminaries			7609-MXF-XX-XX-SP-J-30000			WD	nts	A4	P01		P01
Lighting Ss_70_80_00_00											
Lighting - All Levels			7609-MXF-ZZ-00-DR-E-30100			R24	1:50	A1	P02	P01	P02
Combined Mechanical Ss_60_00_00_00											
Combined Mechanical - All Levels			7609-MXF-ZZ-00-DR-M-00100			R24	1:50	A1	P02	P01	P02
Piped Supply Ss_55_00_00_00											
Piped Supply (Detail) Schematic			7609-MXF-ZZ-XX-DB-P-20200			R24	nts	A1	P01		P01
Low Voltage Distribution Ss_70_30_45_45											
Low Voltage Distribution Schematic			7609-MXF-ZZ-XX-DR-E-22200			R24	nts	A1	P01		P01
Distribution											
Architect - Chantrey Conservation Architects						e-a	e-l				
Client - PCC of Stockland						e-a	e-l				

					Day	13					
					Month	02					
					Year	25					
					Status	S4					
Document Title		Document Number	Type	Scale	Size	Rev	Dated Issue Revisions				
Combined Electrical and ELV Ss_70_00_00_00											
Combined Consumer Unit, Electrical Equipment and Light Fittings Schedule		7609-MXF-XX-XX-SH-E-00000	WD	nts	A3	P02	P02				
Combined Electrical and ELV - All Levels		7609-MXF-ZZ-00-DR-E-00100	R24	1:50	A1	P02	P02				
Multiple/Combined Services PM_40_40_15											
Combined Mechanical and Public Health Equipment Schedule		7609-MXF-XX-XX-SH-J-30000	WD	nts	A3	P02	P02				
Stockland Bristol St Mary Magdalene - MEP Specification and Preliminaries		7609-MXF-XX-XX-SP-J-30000	WD	nts	A4	P01	P01				
Lighting Ss_70_80_00_00											
Lighting - All Levels		7609-MXF-ZZ-00-DR-E-30100	R24	1:50	A1	P02	P02				
Combined Mechanical Ss_60_00_00_00											
Combined Mechanical - All Levels		7609-MXF-ZZ-00-DR-M-00100	R24	1:50	A1	P02	P02				
Piped Supply Ss_55_00_00_00											
Piped Supply (Detail) Schematic		7609-MXF-ZZ-XX-DB-P-20200	R24	nts	A1	P01	P01				
Low Voltage Distribution Ss_70_30_45_45											
Low Voltage Distribution Schematic		7609-MXF-ZZ-XX-DR-E-22200	R24	nts	A1	P01	P01				
Distribution											
Architect - Chantrey Conservation Architects						e-l					
Client - PCC of Stockland						e-l					