

V4 Affordable Rent Drawing Register

Sheet Number	Sheet Name	Rev	Revision Date
1164-400-AR	Cover Page & Design Risk Register	A	Feb 2024
1164-410-AR	Foundation & Sub-Floor Plans	A	Feb 2024
1164-420-AR	Floor Plans	A	Feb 2024
1164-430-AR	MEP Plans	A	Feb 2024
1164-440-AR	Elevations	A	Feb 2024
1164-450-AR	Sections	A	Feb 2024



Rev	Description	Date
A	General updates as detailed within issue email dated 02.02.2024	Feb 2024
-	Construction Issue	July 2023

NORTHSTONE

Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

DRAWING NAME
**1164-V4-AR (As) - Affordable Rent
Cover Page & Design Risk Register**

DRAWING NUMBER 1164-400-AR	DESIGNATION AR	DRAWN BY Design
DATE June 2023	SCALE (@ A3)	REV A

- Notes:**
- All dimensions to structure unless otherwise stated.
 - Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
 - Any discrepancies to be reported to Northstone Technical prior to commencement of works.
 - All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.
- DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.**

Design Risk Register

Element	Comments
Lifting Operations	To avoid injury when handling heavy components, specialist handling equipment is to be utilised for the positioning of heavy objects/materials. Large glazing to be installed with specialist lifting equipment by trained personnel. Protection barriers to be provided to prevent mechanical damage following installation.
Craneage	Crane supplier to be satisfied of adequate support to outriggers, correct lifting positions to be established to avoid slippage of sheet materials during lifting and placement. Sub-contractors and suppliers to 'design in' lifting eyes and identify weights of heavy items at drawing approval stage. All RAMS to be obtained and approved prior to any lifting operations being carried out.
Ground Floor Construction	Mechanical Lifting equipment to be utilised to position pre-cast concrete floor planks. Manual handling assessment to be carried out.
Working at Height	Install temporary scaffolding barrier to exposed edges of upper floors including toe boards throughout the build period. Provide scaffolding to all areas requiring placement of materials and finishing to all areas above ground level. Scaffolding to be positioned to avoid the need to overreach causing strain injury when placing materials. Protect areas below high level working from falling debris. Ensure space required for crane is achievable and suitable hard standing is provided. Ensure maximum fall height when fixing trusses into position is 2 metres by utilising appropriate safety measures and equipment.
Stairs	To prevent falls provide temporary guarding and edge protection to open well areas and keep clear during construction, eliminating the possibility of trip hazards. Stairs to be erected as early as possible during the construction process to provide vertical circulation and means of escape in case of fire.
Masonry Construction	When working at height mechanical lifting measures required to lift brick and block packs into position to reduce manual handling.
Lintels	Manual Handling Assessments to be carried out for all lintels, light craneage to be utilised for lintels considered too heavy for manual handling.
Structural Steelwork	Mechanical lifting measures required to reduce manual handling. Ensure required space for crane is achievable and suitable hard standing is provided.
Windows / Structural Openings	Any structural apertures below 800mm to be fitted with temporary guarding to prevent falls. Any structural apertures below 800mm and extending to floor level to be fitted with temporary guarding and edge protection to prevent falls. Mechanical lifting measures and frame and glazing fitted separately to be considered for installation of large windows and combination door & window frames. Window manufacturer to be consulted regarding best means of installation.
Window Cleaning & Maintenance	'Easy Clean' hinges are not an option due to the top hung design to a majority of the windows, as such windows should be cleaned from ground level using a telescopic 'reach & wash' system. All windows used to be Aluminium or UPVC frames to eliminate the need for future decoration.
Roof Construction	Ensure space required for crane is achievable and suitable hard standing is provided. Ensure maximum fall height when fixing trusses into position is 2 metres by utilising appropriate safety measures and equipment.

1164-V4-AR (As) - Affordable Rent

FOUNDATION & SUB-FLOOR LEGEND

Brick Face External Wall

OUTSIDE - 102.5mm clay facing brickwork as site specific materials plan
 - 125mm clear cavity
 INSIDE - 100mm block as specification

100mm Sleeper Wall
 - 100mm concrete block as engineers details

215mm Sleeper Wall
 - 100mm concrete block as engineers details
 - 15mm cavity fully filled with mortar
 - 100mm concrete block as engineers details

Trench Block
 - 350mm concrete trench block as engineers details

Services & Ventilation

SVP 110mm Soil and Vent Pipe
 RWP Rainwater pipe as specification
 GULLY Sealed floor gully for level access shower
 Water Water Entry Point
 Data Lead In Data Entry Point
 E Electric Entry Point
 G Gas Entry Point
 Sub-Floor Telescopic Vent

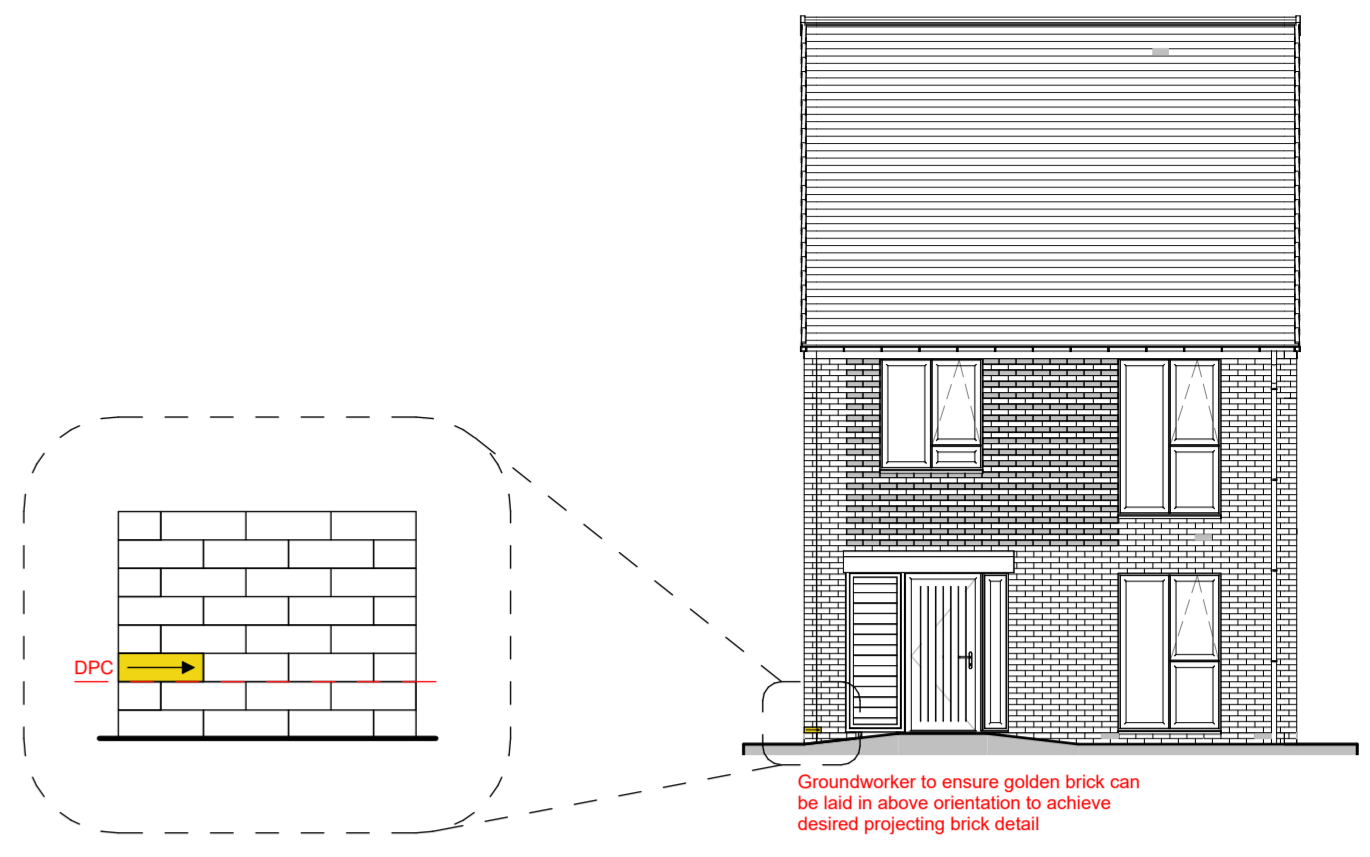
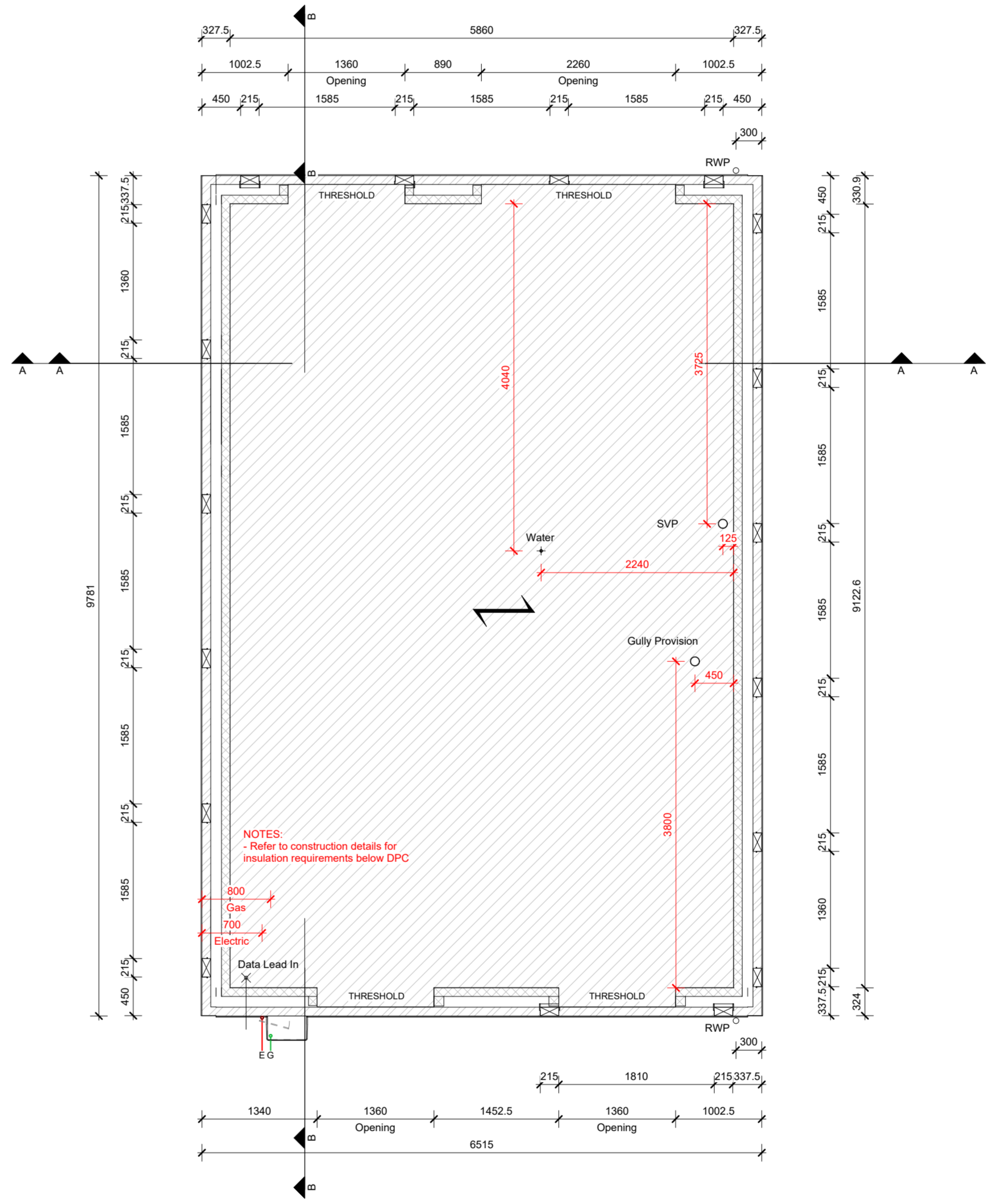
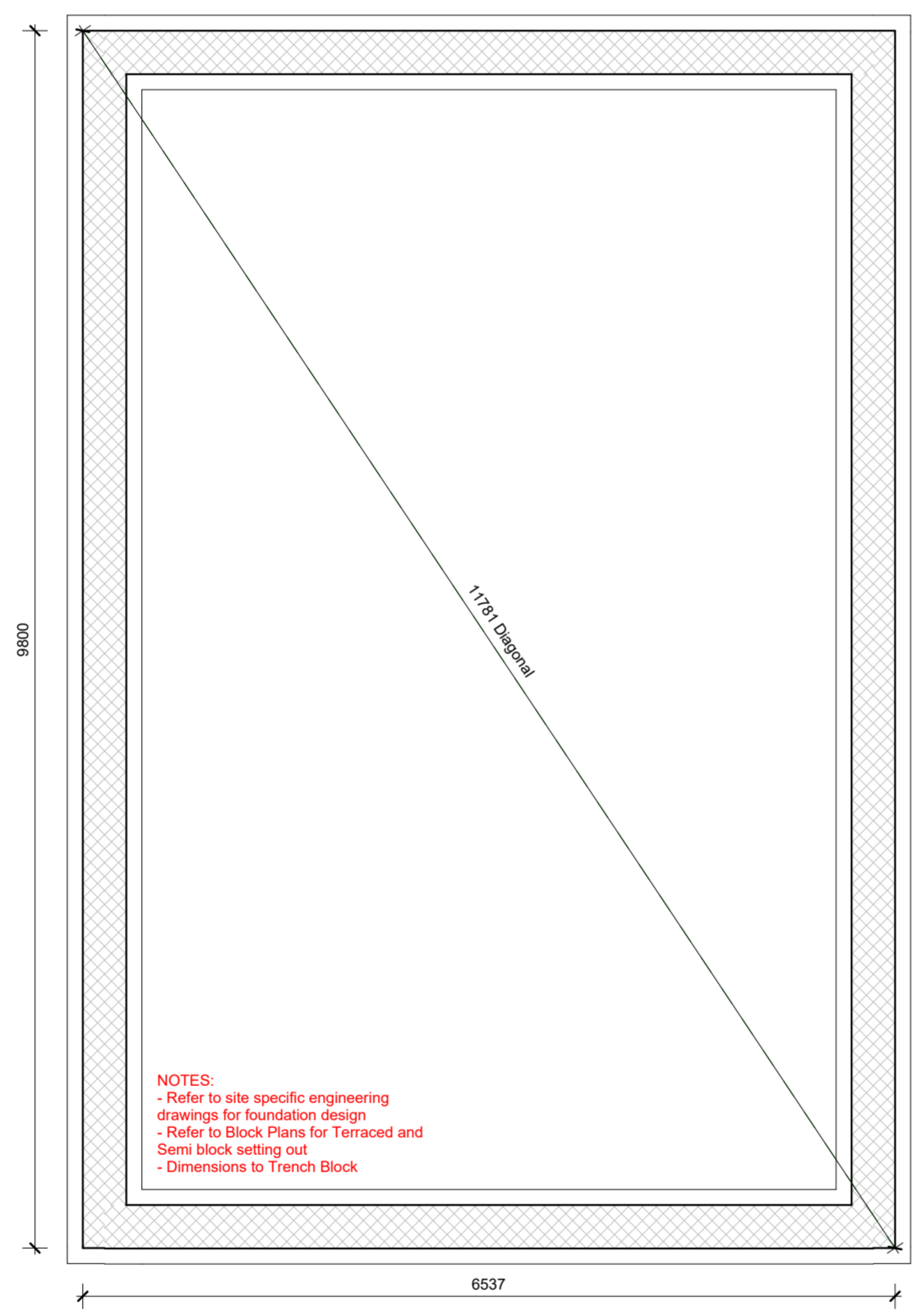
Floor Finish & Span

Extent of Floor Screen
 Span of Ground Floor Construction

NOTES

1. Refer to engineers details and specification for all block strengths.
2. Key to be read in conjunction with construction specification.
3. Expansion and movement joints, bed reinforcement and wind posts to engineers details.
4. Always refer to site investigation report and engineers details for any gas membrane requirements.

Sub-Floor Void Ventilation Schedule				
Building Area (m ²)	Building Perimeter (m)	Ventilation Required	Minimum Number of Vents Required	Number of Vents Provided
63.70 m ²	32.41	48617 mm ²	10	18
* Based on 500mm ² of Floor Area				



General updates as detailed within issue email dated 02.02.2024	Feb 2024
Construction Issue	July 2023

Rev	Description	Date

NORTHSTONE
Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

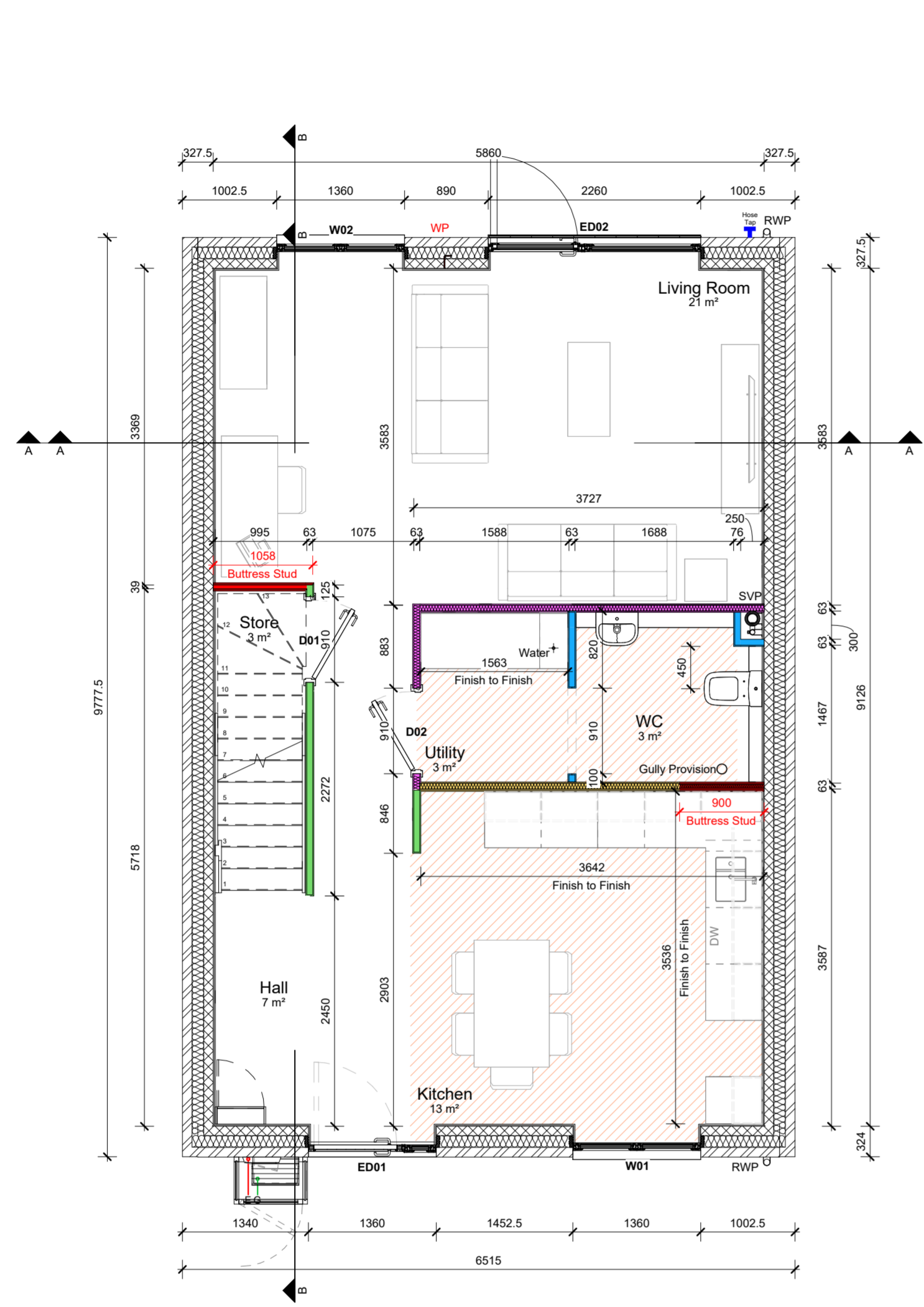
DRAWING NAME
1164-V4-AR (As) - Affordable Rent Foundation & Sub-Floor Plans

DRAWING NUMBER 1164-410-AR	DESIGNATION AR	DRAWN BY Design
DATE June 2023	SCALE (@ A1) As indicated	REV A

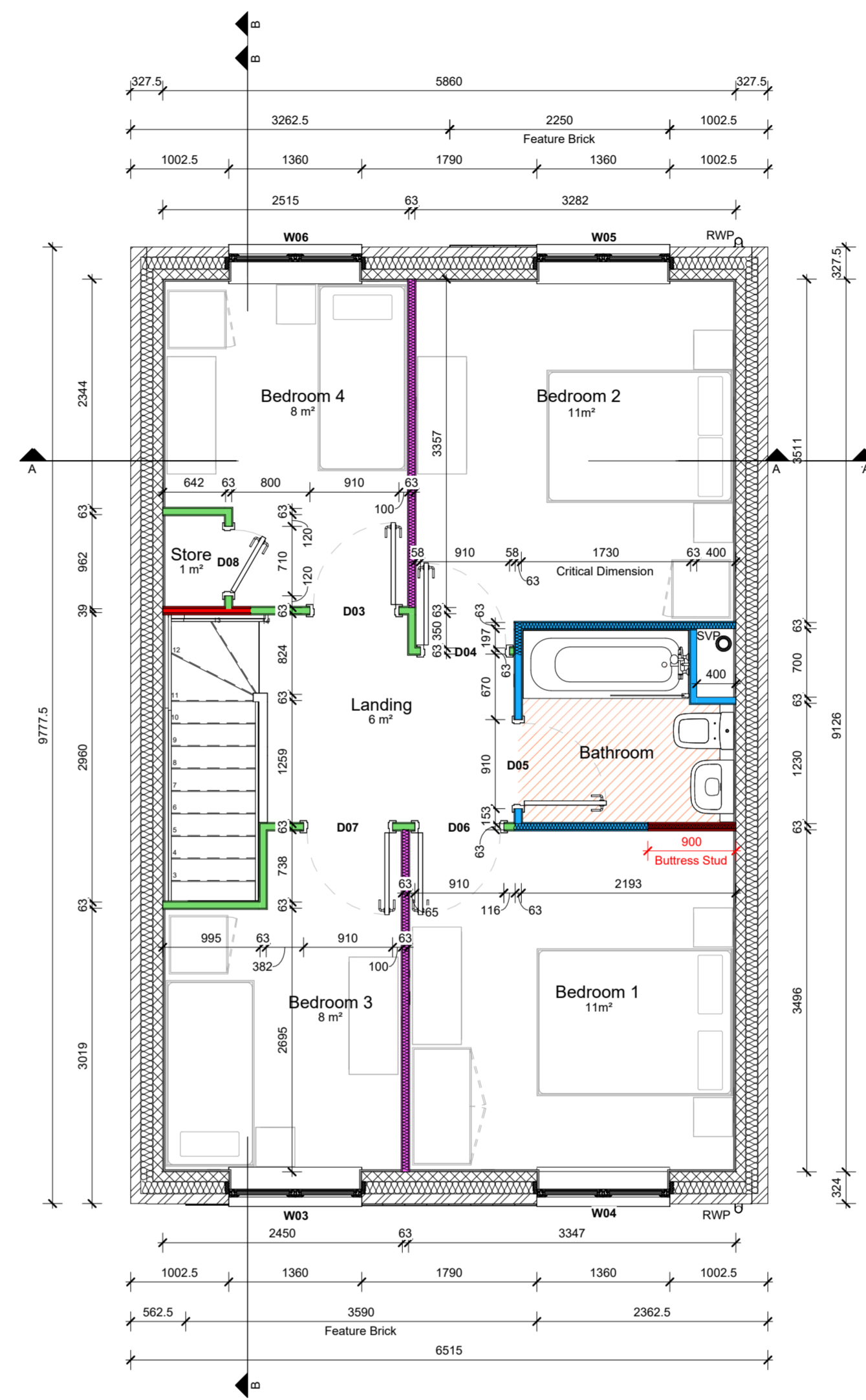
Notes:

- All dimensions to structure unless otherwise stated.
- Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
- Any discrepancies to be reported to Northstone Technical prior to commencement of works.
- All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.

DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.



420-AR. Ground Floor Setting Out
1 : 50



430-AR. First Floor Setting Out
1 : 50

WALL TYPE LEGEND

Brick Face External Wall

- OUTSIDE: 102.5mm clay facing brickwork to site specific materials plan
- 125mm cavity fully filled with insulation as specification
- 100mm block as specification
- INSIDE: 12.5mm plasterboard on 10mm adhesive dabs, all joints taped and filled before wet plaster skim finish

NON LOADBEARING STUD PARTITIONS

General Partition

- 63x38mm C16 studwork at max 600mm centres with suitable noggins
- Plattress between stud with 12mm Ply where required for MEP fixtures and fittings
- 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped and filled before wet plaster skim finish

Plattressed Partition Wall

- 63x38mm C16 studwork at max 600mm centres with suitable noggins
- 12mm ply mechanically fixed to stud on load-bearing side of wall (Kitchens etc.)
- 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped and filled before wet plaster skim finish

Acoustic & Fire Rated Partition

- 30 Min
- 63x38mm C16 studwork at max 600mm centres with suitable noggins
- Voids between studwork fully filled with 60mm Rockwool Flexi or similar approved mineral wool.
- Plattress between stud with 12mm Ply where required for MEP fixtures and fittings
- 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped and filled before wet plaster skim finish
- Achieves FL40dB in accordance with AD-E
- Achieves REI 30 fire resistance in accordance with British Gypsum White Book

Wet-Room Partition (WC / Bathroom / En-suite)

- 63x38mm C16 studwork at max 400mm centres with suitable noggins
- Plattress between stud with 12mm Ply where required for MEP fixtures and fittings
- 12.5mm moisture resistant plasterboard mechanically fixed to stud on wet-room side of wall with all joints taped and filled before wet plaster skim finish
- 12.5mm standard plasterboard mechanically fixed to stud on dry-room side of wall where required with all joints taped and filled before wet plaster skim finish

Framing Wall

- 63x38mm C16 studwork wide face out at max 400mm centres with suitable noggins
- 1no. layer of 12.5mm plasterboard mechanically fixed to room side of wall with all joints taped and filled before wet plaster skim finish

Anchored/Buttress Stud Partition

- Refer to structural engineers details and Northstone construction details. Buttress Studs and Windposts not required on party walls.

Insulation Between Studs

- Voids between studwork fully filled with 60mm Rockwool Flexi or similar approved mineral wool where indicated on drawing for AD-E compliance
- Achieves R_w40dB in accordance with AD-E
- Achieves REI 30 fire resistance in accordance with British Gypsum White Book

NOTES

- Refer to engineers details and specification for all block strengths.
- Key to be read in conjunction with construction specification.
- Expansion and movement joints, bed reinforcement and wind posts to engineers details.
- All dimensions are to structure unless otherwise noted.

FLOORING LEGEND

LVT Flooring

- Vinyl flooring applied as Northstone finishes specification and relevant customer options.

External Door Schedule

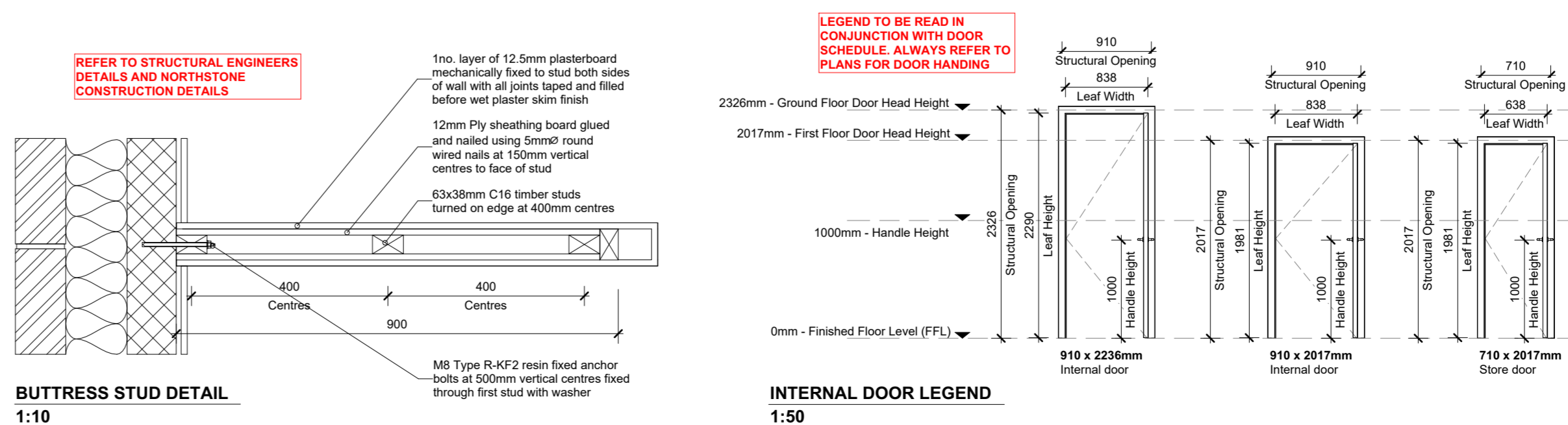
Floor	Door Ref	Width	Height	Door Width	Reveal Depth	U-Value (Door / Sidelight)	Toughened Glass	Glazing Specification	MF Width	Sidelight MF Width	MF Height	Area of Glazing	Notes
Ground Floor FFL/DPC	ED01	1360	2110	1000	50	0.45W/m²K / 0.55W/m²K	Yes	Triple Glazed	984	344	2061	0.451 m²	
Ground Floor FFL/DPC	ED02	2260	2110	1000	70	0.50W/m²K / 0.55W/m²K	Yes	Triple Glazed	984	1244	2061	3.508 m²	

Window Schedule

Floor	Window Ref	Width	Height	Toughened Glass	U-Value	Reveal Depth	Obscure Glazing	Escape Window	Trickle Vents	Glazing Specification	Area of Glazing	Notes
Ground Floor FFL/DPC	W01	1360	2110	Yes	0.55W/m²K	70	No	No	Yes	Triple Glazed	2.096 m²	
Ground Floor FFL/DPC	W02	1360	2110	Yes	0.55W/m²K	70	No	No	Yes	Triple Glazed	2.096 m²	
First Floor FFL	W03	1360	1510	Yes	0.55W/m²K	70	No	Yes	Yes	Triple Glazed	1.438 m²	
First Floor FFL	W04	1360	2110	Yes	0.55W/m²K	70	No	Yes	Yes	Triple Glazed	2.096 m²	
First Floor FFL	W05	1360	1510	Yes	0.55W/m²K	70	No	Yes	Yes	Triple Glazed	1.438 m²	
First Floor FFL	W06	1360	1510	Yes	0.55W/m²K	70	No	Yes	Yes	Triple Glazed	1.438 m²	

Affordable Rent Internal Door Schedule

Floor	Door Ref	From Room	To Room	Structural Width	Structural Height	Leaf Width	Casing Depth	Fire Rating	Self Closer	Notes
Ground Floor FFL/DPC	D01	Living Room	Store	910	2326	838	96	Not Fire Rated	No	
Ground Floor FFL/DPC	D02	Hall	Utility	910	2326	838	96	Not Fire Rated	No	
First Floor FFL	D03	Bedroom 4	Landing	910	2017	838	96	Not Fire Rated	No	
First Floor FFL	D04	Bedroom 2	Landing	910	2017	838	96	Not Fire Rated	No	
First Floor FFL	D05	Bathroom	Room	910	2017	838	96	Not Fire Rated	No	
First Floor FFL	D06	Bedroom 1	Room	910	2017	838	96	Not Fire Rated	No	
First Floor FFL	D07	Bedroom 3	Room	910	2017	838	96	Not Fire Rated	No	
First Floor FFL	D08	Bedroom 4	Store	710	2017	638	96	Not Fire Rated	No	



General updates as detailed within issue email dated 02.02.2024
Construction Issue
Date: July 2023

NORTHSTONE
Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

DRAWING NAME
1164-V4-AR (As) - Affordable Rent Floor Plans

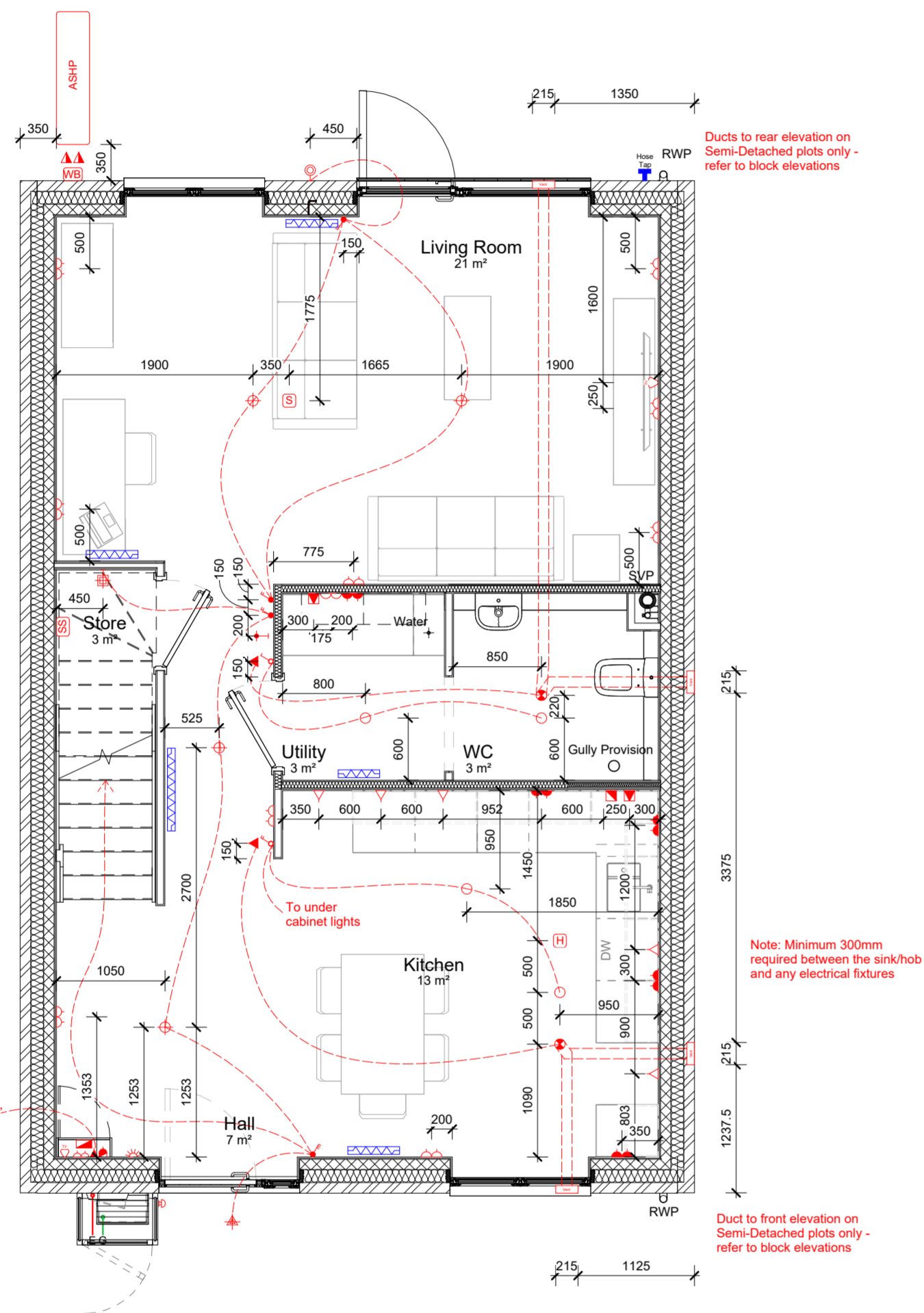
DRAWING NUMBER 1164-420-AR	DESIGNATION AR	DRAWN BY Design
DATE June 2023	SCALE (@ A1) As indicated	REV A

Notes:

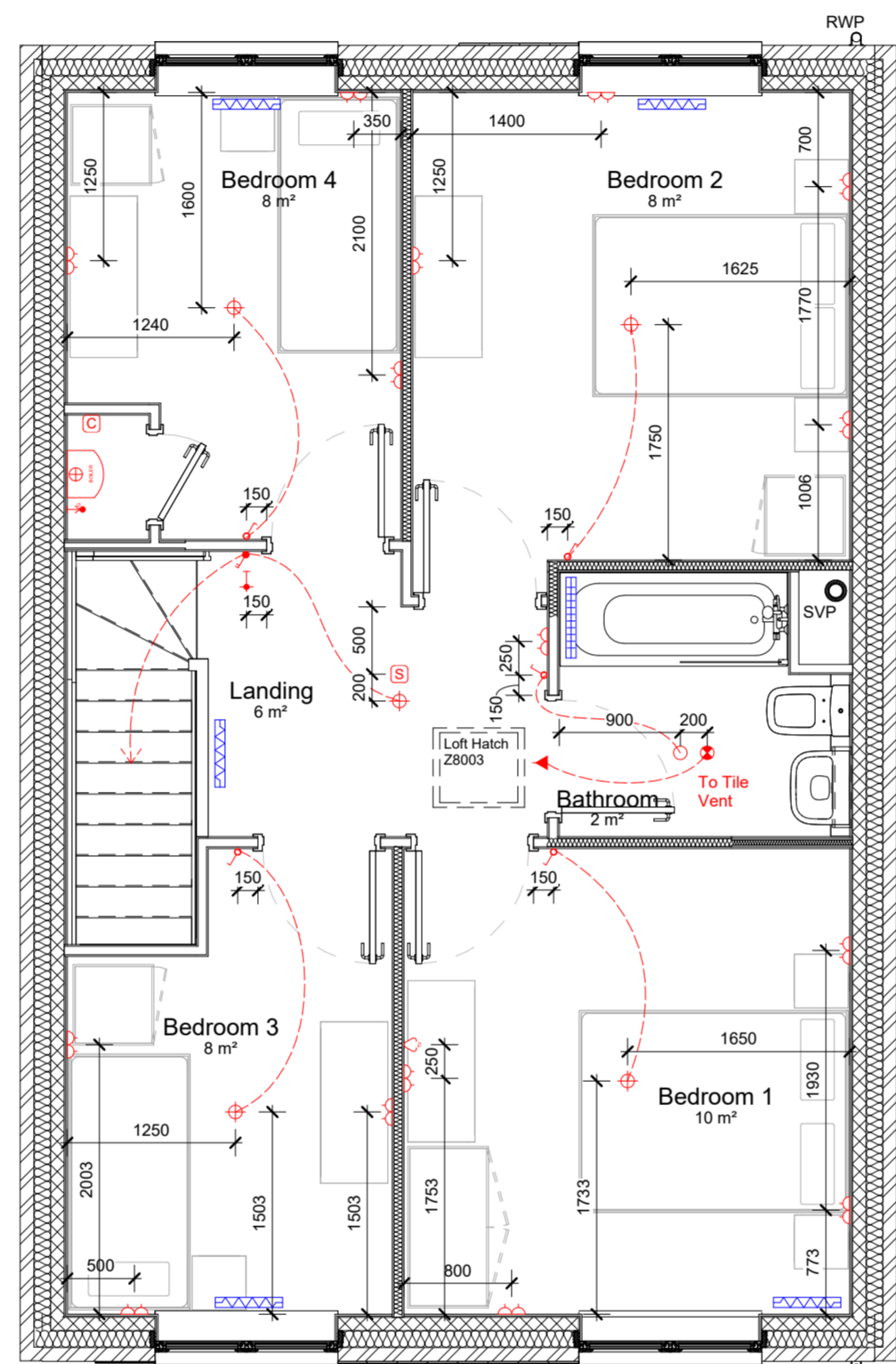
- All dimensions to structure unless otherwise stated.
- Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
- Any discrepancies to be reported to Northstone Technical prior to commencement of works.
- All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.
- DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.**

Electrical Item	Quantity
Door Bell Push	1
External Wall Light	1
IP66 Rated External Whisper Box	1
Recessed spot light	1
Rotary Pole Isolator Switch	2
Single gang light switch - single way	1
Hall	
13A Switched Fused Spur	1
Consumer Unit MAE - Refer to Detail	1
Door Bell Sounder	1
Double gang light switch - single way	1
Double Socket	2
Pendant light	2
Wardwall switch	1
Kitchen	
13A Unswitched Fused Spur	5
Bulkhead Light	2
Ceiling mounted fan CV2-GIP	1
Cooker Control Box	1
Double Socket	5
Double Socket with USB	2
Heat Detector	1
Kitchen gang plate with appliance names	1
Pendant light	1
Recessed spot light	5
Triple gang light switch - two way	1
Utility	
Bulkhead Light	1
Double Socket	1
Kitchen gang plate with appliance names	1
Unswitched Single Socket	2
WC	
Bulkhead Light	1
Ceiling mounted fan CV2-GIP	1
Living Room	
2-Way Data Module with CAT6 & TV Inserts	1
13A Switched Fused Spur	1
Double gang light switch - two way	2
Double Socket	6
Internal Wall Light	4
Pendant light	2
Single gang light switch - single way	1
Single TV Point	1
Smoke Detector	1
Triple gang light switch - two way	1
Wardwall thermostat	1
Store	
Internal Wall Light	1
Panasonic Smart Control Switch for ASHP	1
Landing	
Double gang light switch - two way	1
Double Socket	1
Pendant light	1
Single gang light switch - single way	1
Smoke Detector	1
Wardwall thermostat	1
Bedroom 1	
Double Socket	4
Pendant light	1
Single TV Point	1
Bedroom 2	
Double Socket	4
Pendant light	1
Single gang light switch - single way	1
Bedroom 3	
Double Socket	3
Pendant light	1
Single gang light switch - single way	1
Bedroom 4	
Double Socket	3
Pendant light	1
Single gang light switch - single way	1
Bathroom	
Bulkhead Light	1
Ceiling mounted fan CV2-GIP	1
Store	
Carbon Monoxide Detector	1
Room	
13A Switched Fused Spur	1

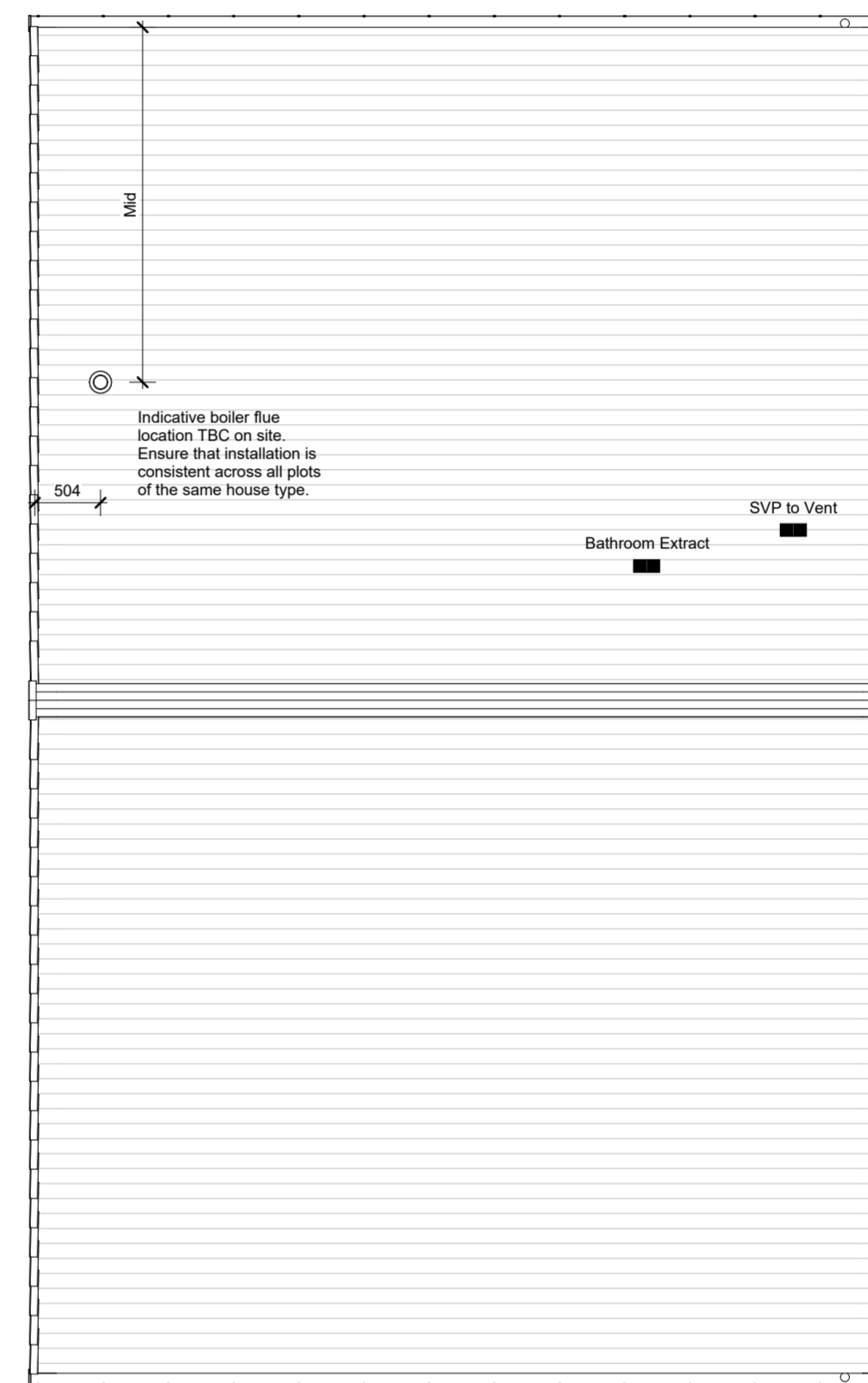
Ventilation Fixture Schedule	Quantity
Single air brick for CV2-GIP fan	6
Flat Edge Tile Vent for Concrete Tiles	3
Boiler Flue Terminal and Flashing Kit	1



425-AR. Ground Floor MEP
1 : 50



435-AR. First Floor MEP
1 : 50



439-AR. Roof Plan
1 : 50

M&E LEGEND

LIGHTING

- External Wall Light
- Internal Wall Light
- Pendant Light
- Recessed Spot Light
- Bulkhead Light

SWITCHES

- Single Gang Switch
- Double Gang Switch
- Triple Gang Switch
- Single Two-Way Switch
- Double Two-Way Switch
- Triple Two-Way Switch
- Wardwall Switch
- 13A Switched Fused Spur
- 13A Unswitched Fused Spur
- Kitchen Gang Plate
- Cooker Control Box

SOCKETS

- Single Socket - Low Level
- Unswitched Single Socket - Low Level
- 5 Amp Socket
- Double Socket - Low Level
- Double Socket - Low Level With USB
- Single Socket - Worktop Level
- Double Socket - Worktop Level
- Double Socket - Worktop Level With USB
- External IP65 Rated Socket
- Shaver Socket

MISC. ELECTRICAL

- Consumer Unit
- Central Heating Room Thermostat
- Data Module with TV Point Insert
- Data Module with CAT6 Socket Insert
- Door Bell Sounder
- Door Bell Push

FIRE & GAS PROTECTION

- Carbon Monoxide Detector
- Heat Detector
- Smoke Detector
- Sprinkler Head

VENTILATION

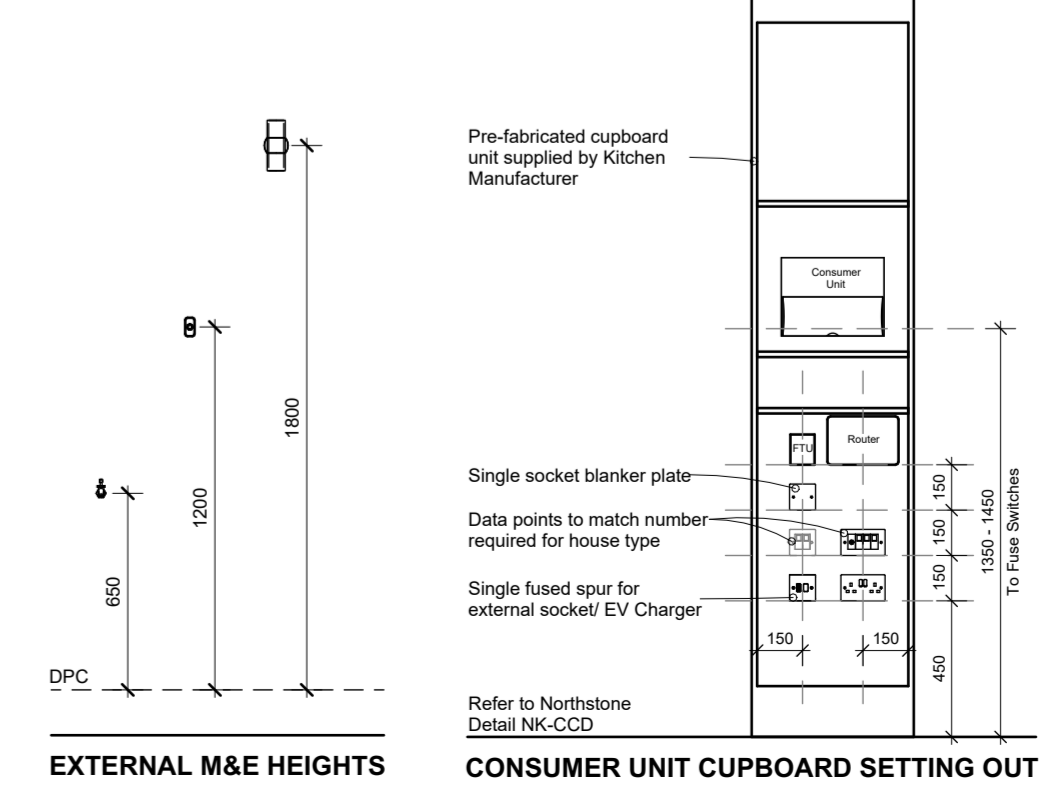
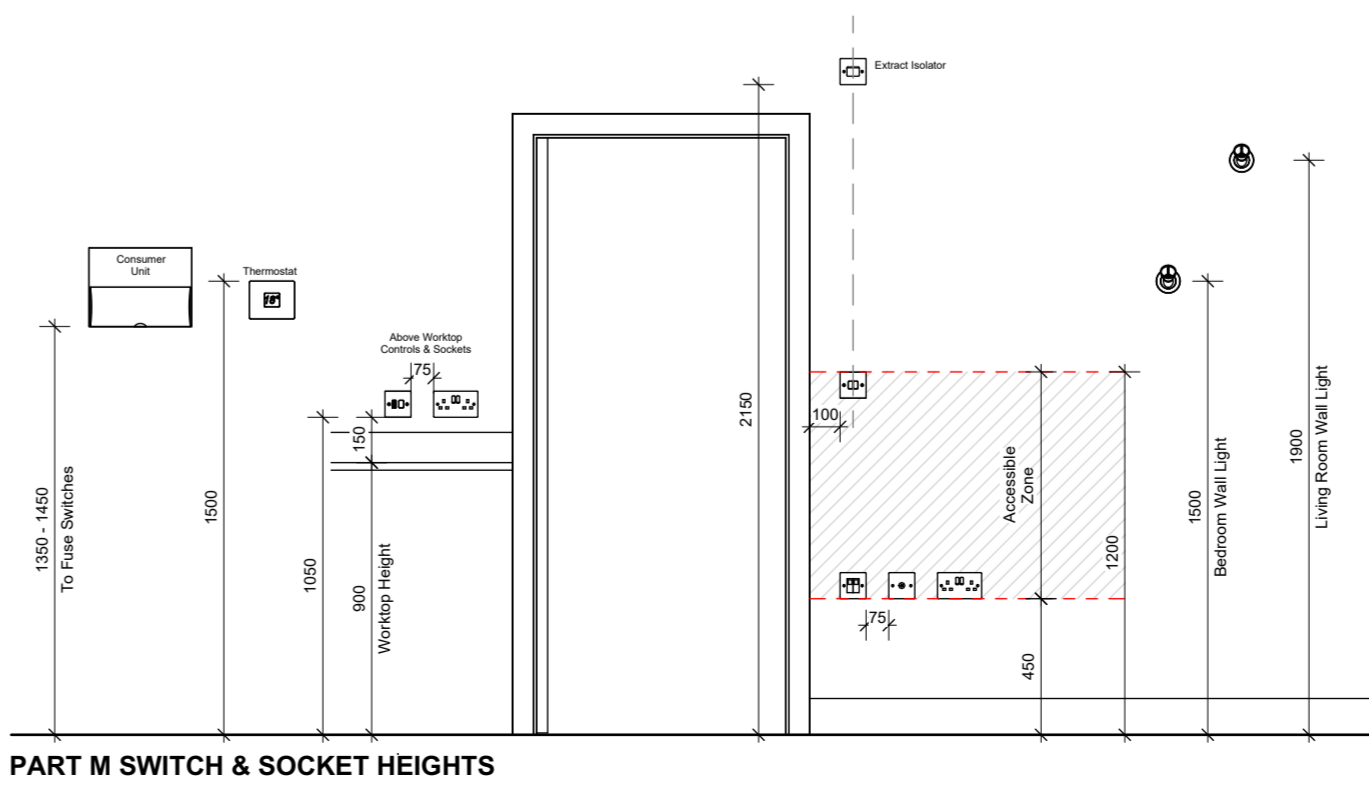
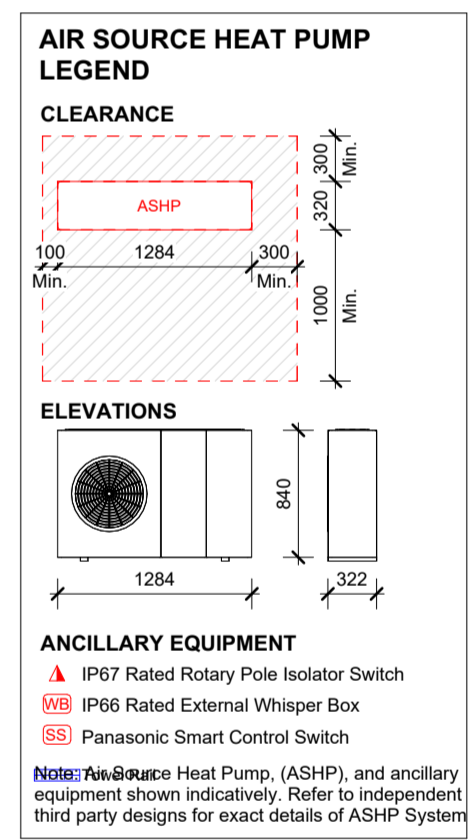
- Ceiling Mounted Fan
- Brick Vent - Plan
- Brick Vent - Elevation
- Tile Vent

HEATING & PLUMBING

- Central Heating Boiler
- Gas Point
- Radiator
- Towel Rail
- Boiler Flue Terminal
- External Tap

Note: All plumbing and ventilation items shown indicatively. Refer to independent third party designs for exact details of heating and ventilation designs.

IMPORTANT
THIS LEGEND MUST ALWAYS BE PRINTED WITH ANY MEP PLAN EXTRACTS
ANY CLASHES OR DISCREPANCIES MUST BE REPORTED TO NORTHSTONE TECHNICAL TEAM



General updates as detailed within issue email dated 02.02.2024
Construction Issue
Rev Description Date

NORTHSTONE
Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

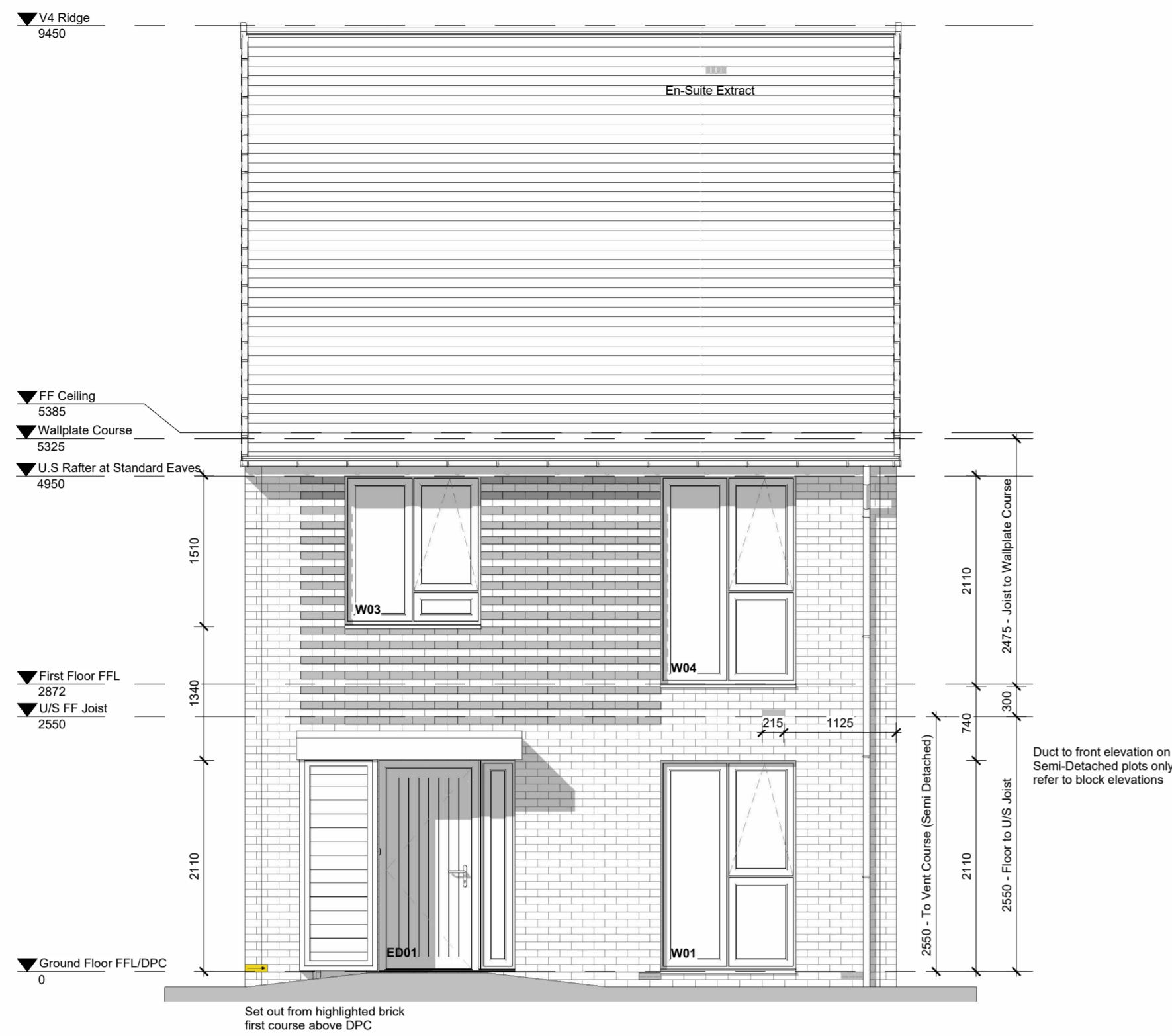
DRAWING NAME
1164-V4-AR (As) - Affordable Rent MEP Plans

DRAWING NUMBER 1164-430-AR	DESIGNATION AR	DRAWN BY Design
DATE June 2023	SCALE (@ A1) As indicated	REV A

Notes:

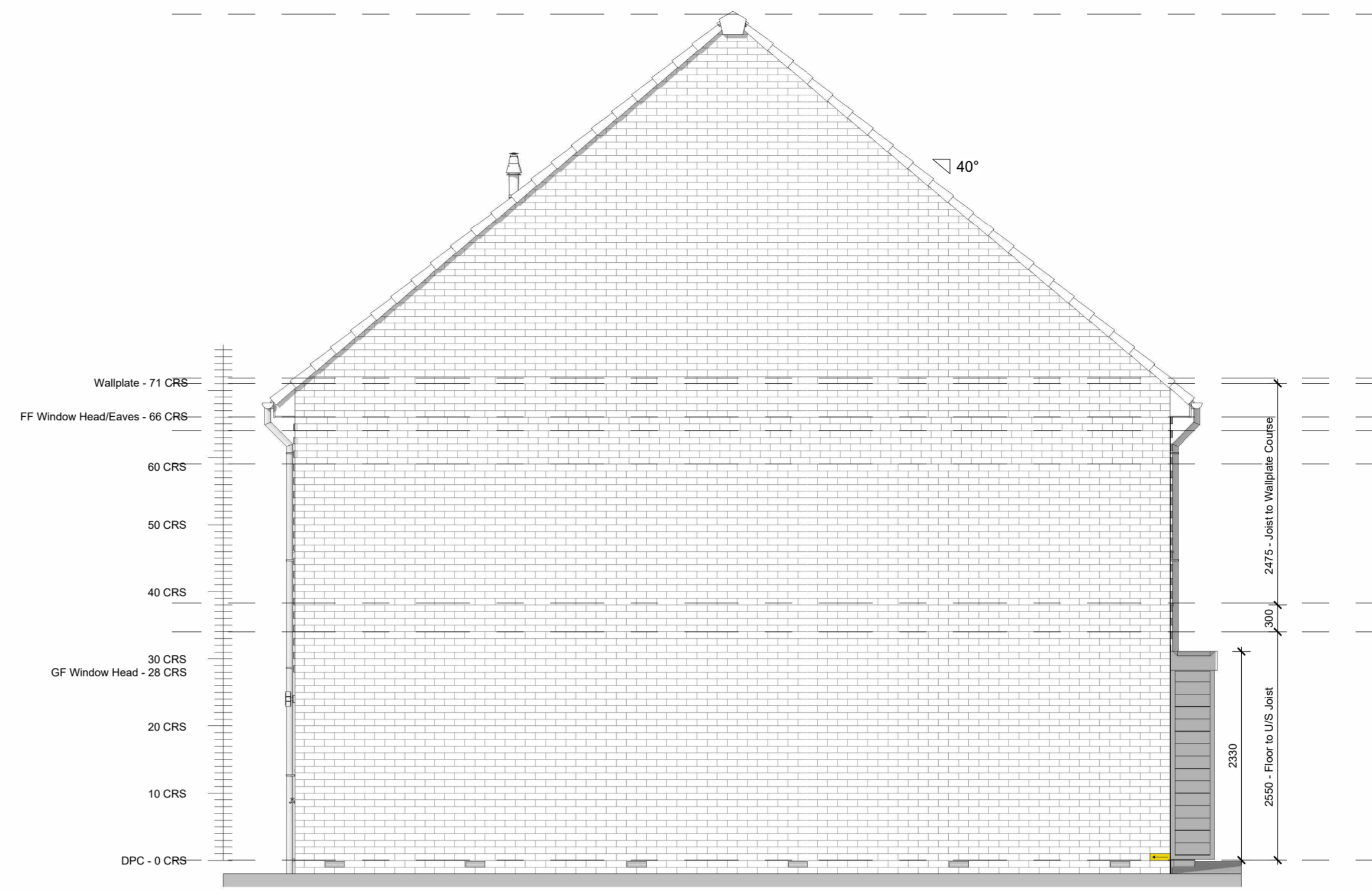
- All dimensions to structure unless otherwise stated.
- Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
- Any discrepancies to be reported to Northstone Technical prior to commencement of works.
- All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.

DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.



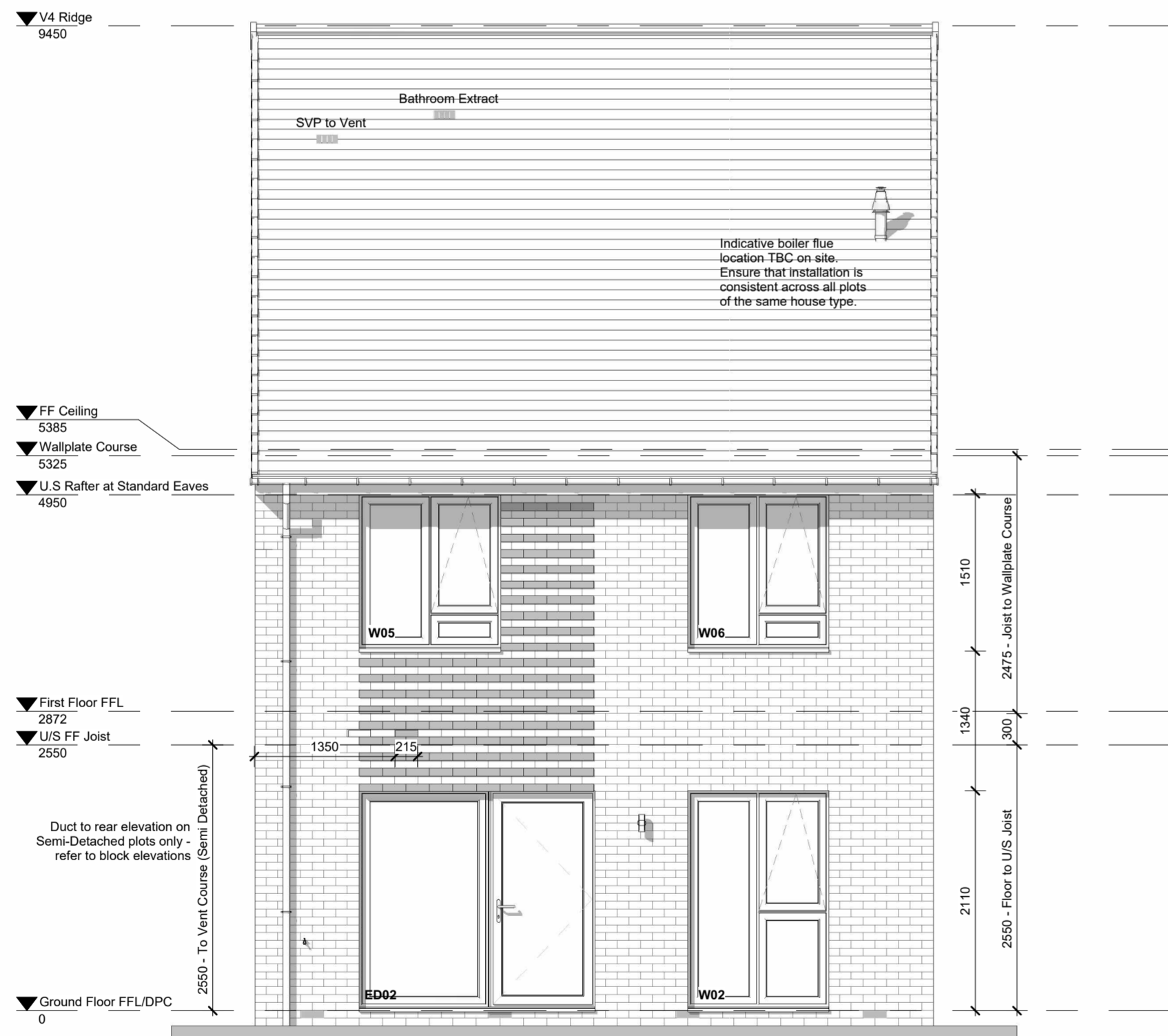
440-AR. Front Elevation

1 : 50



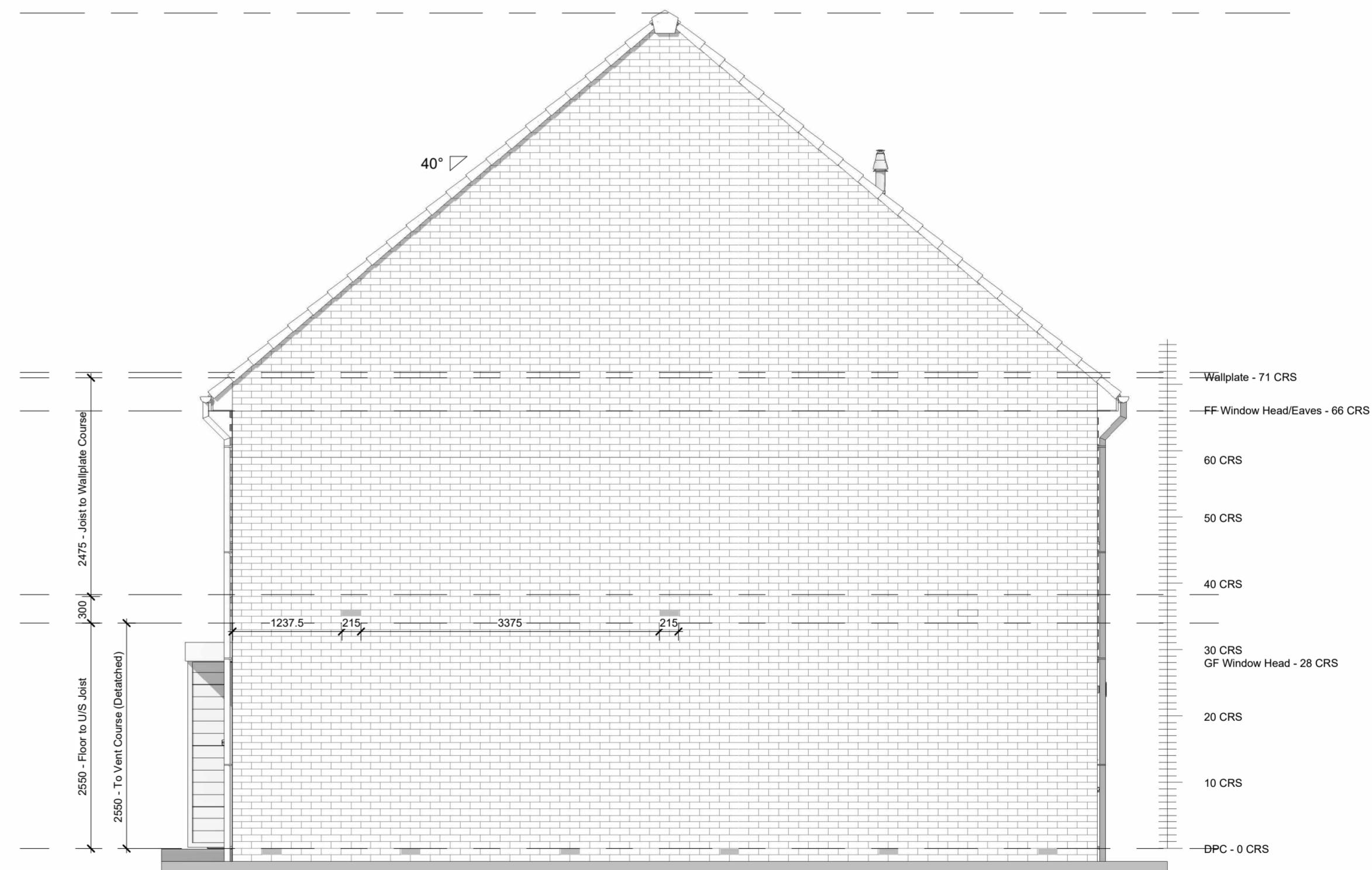
441-AR. LHS Elevation

1 : 50



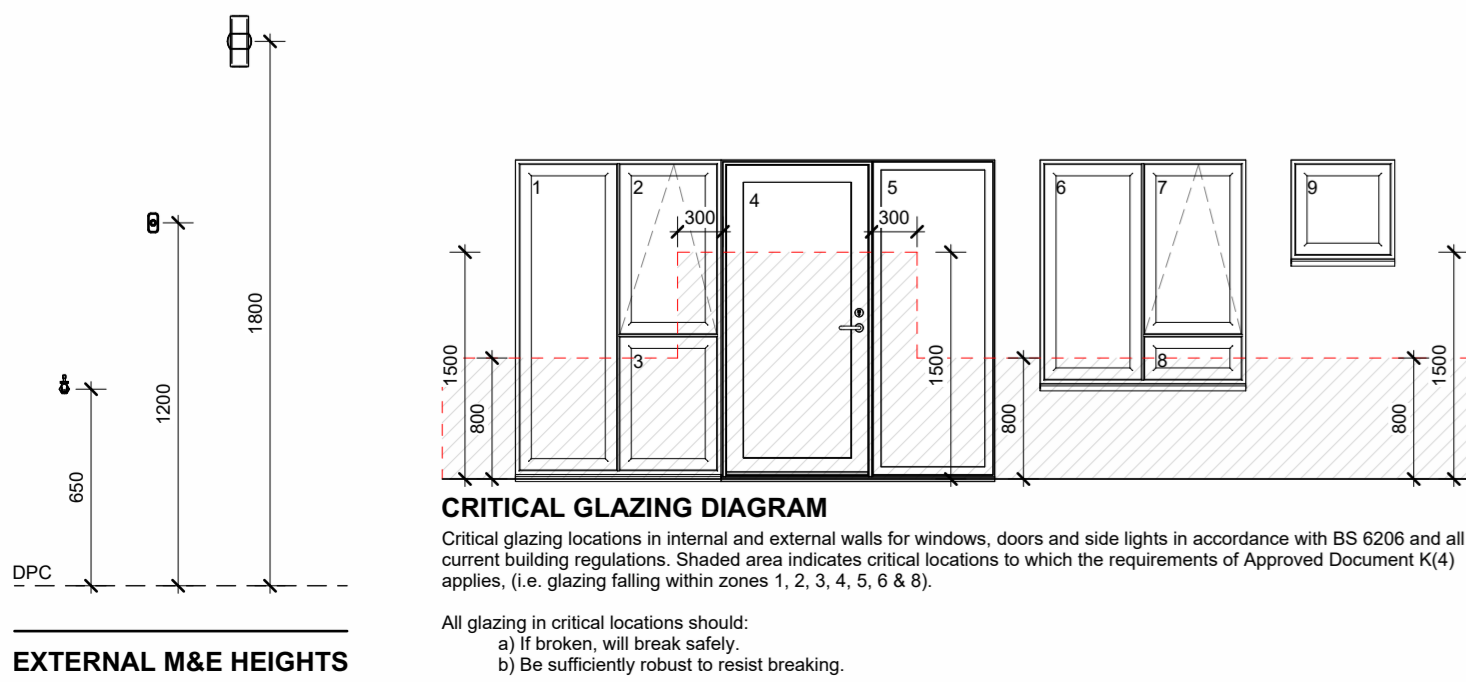
442-AR. Rear Elevation

1 : 50



443-AR. RHS Elevation

1 : 50



- Notes:
- Schedules to be read in conjunction with all project specification documents, floor plans and elevations
 - Structural opening size includes any sidelights
 - Frame set back is taken from front face of brick
 - Refer to manufacturers information for detailed intel schedules
 - All accessible windows and doors to be PAS24 tested to comply with Part Q of building regulations
 - All dimensions to be checked on site prior to manufacture

Escape from upper storey a maximum of 4.5m above ground level: ALL inner rooms where applicable and all first floor habitable rooms (excluding kitchens) to be provided with an escape window (or external door) which complies with Approved Document B1 Section 2 Paragraph 2.2.

Dwellings with one storey more than 4.5m above ground level: A protected stairway should be provided with minimum 30 minute fire resisting construction at all storeys to comply with Approved Document B1 Section 2 Paragraph 2.5.

Unobstructed opening egress area to be at least 0.33M² and at least 450mm high and 450mm wide. Bottom of windows to be not more than 1100mm and not less than 800mm above the floor. Escape windows to have non lockable fasteners and hinged to achieve the minimum required opening.

A	General updates as detailed within issue email dated 02.02.2024	Feb 2024
-	Construction Issue	July 2023

Rev	Description	Date
-----	-------------	------

NORTHSTONE
Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

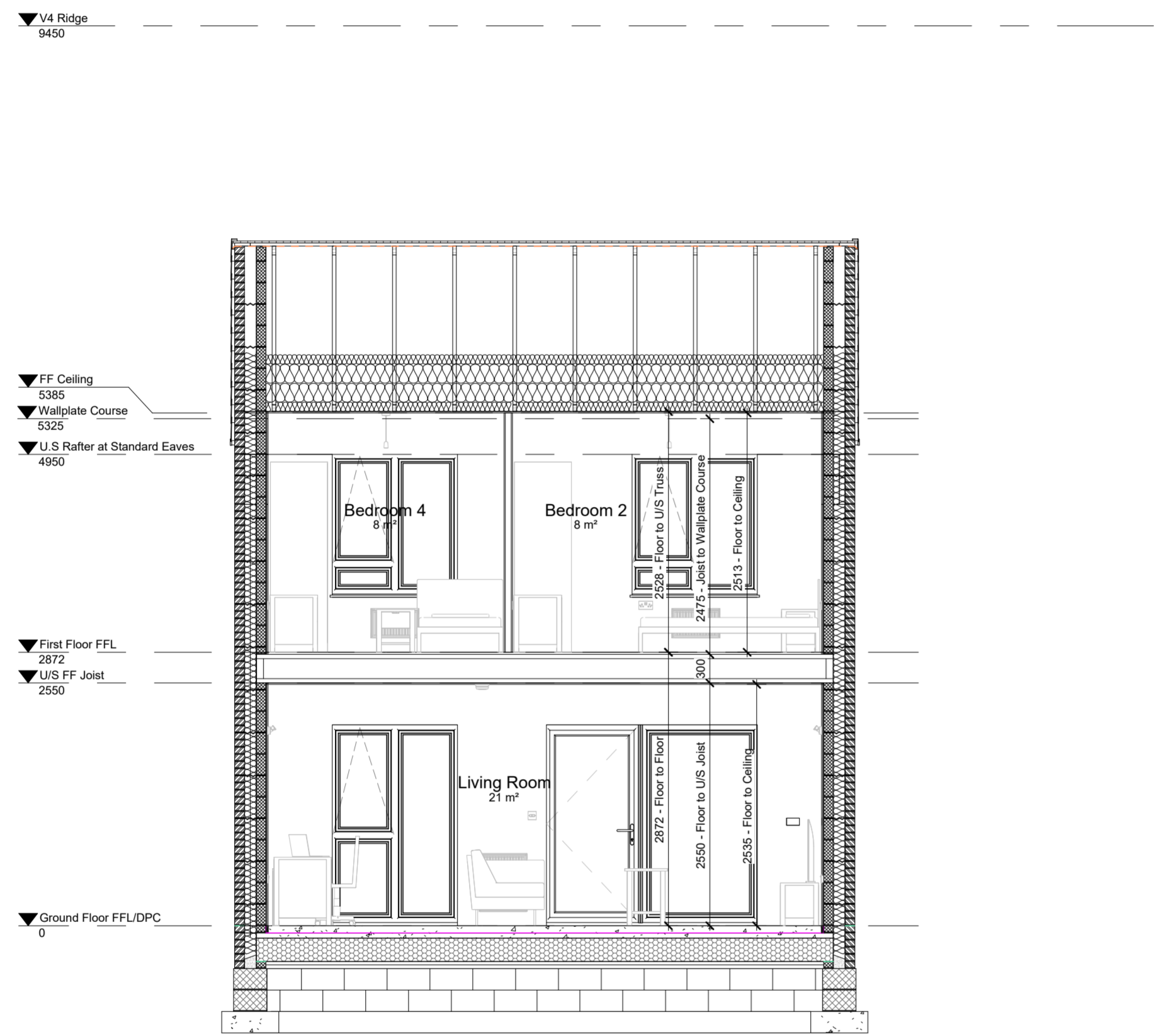
DRAWING NAME
1164-V4-AR (As) - Affordable Rent Elevations

DRAWING NUMBER 1164-440-AR	DESIGNATION AR	DRAWN BY Design
--------------------------------------	--------------------------	---------------------------

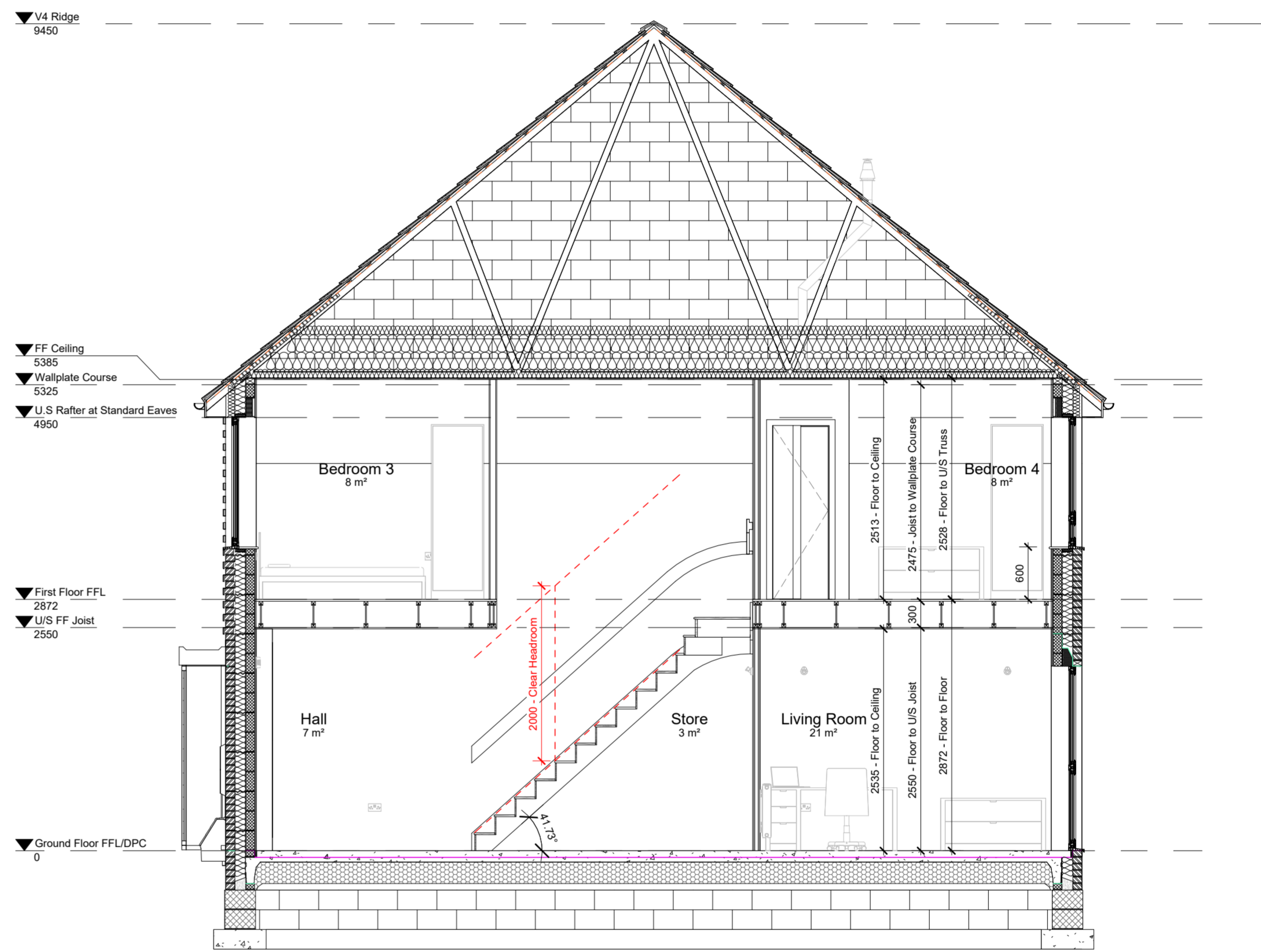
DATE June 2023	SCALE (@ A1) As indicated	REV A
--------------------------	-------------------------------------	-----------------

- Notes:
- All dimensions to structure unless otherwise stated.
 - Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
 - Any discrepancies to be reported to Northstone Technical prior to commencement of works.
 - All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.
- DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.**

MEMBRANE KEY	
	Damp Proof Course (DPC)
	Damp Proof Membrane (DPM)
	Roof Underlay
	Breather Membrane



450-AR. Section A-A
1 : 50



451-AR. Section B-B
1 : 50

A	General updates as detailed within issue email dated 02.02.2024	Feb 2024
-	Construction Issue	July 2023

Rev	Description	Date
-----	-------------	------

NORTHSTONE
Peel L&P
Salford
M50 2TG

CONSTRUCTION

PROJECT
Gen2 House Type Portfolio

DRAWING NAME
1164-V4-AR (As) - Affordable Rent Sections

DRAWING NUMBER 1164-450-AR	DESIGNATION AR	DRAWN BY Design
DATE June 2023	SCALE (@ A1) 1 : 50	REV A

Notes:

- All dimensions to structure unless otherwise stated.
- Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
- Any discrepancies to be reported to Northstone Technical prior to commencement of works.
- All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.

DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.