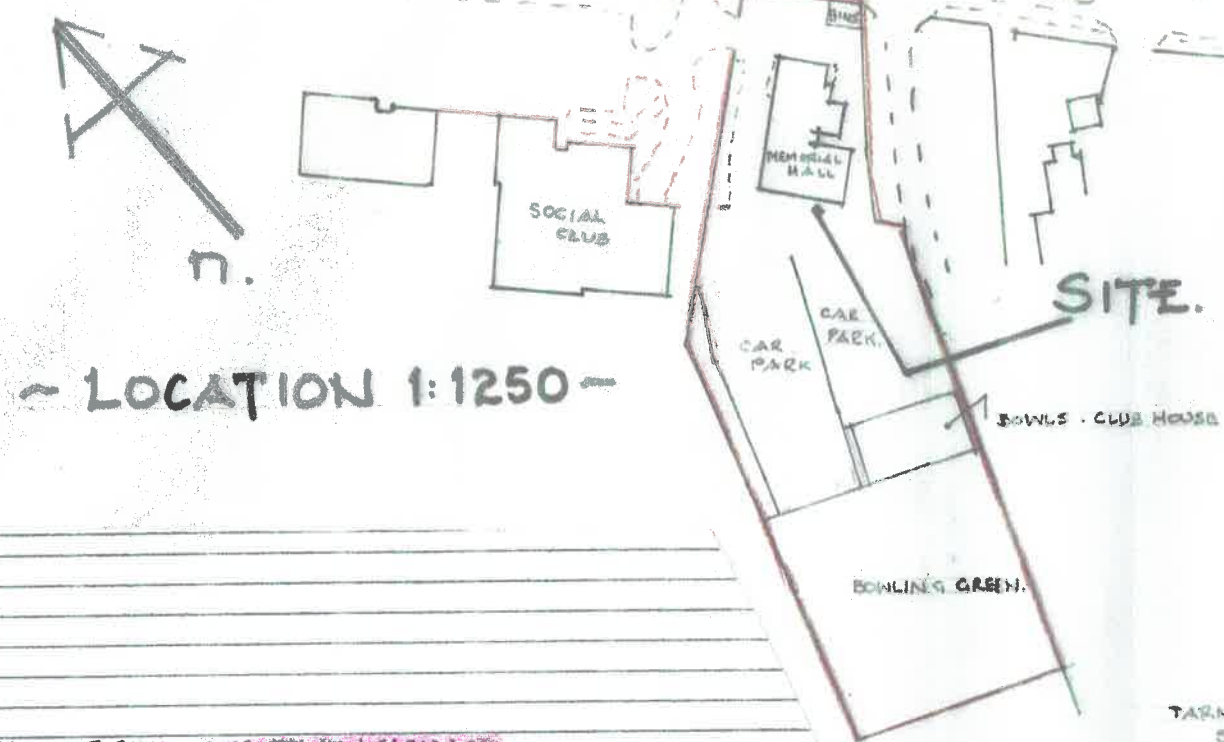




K		
J		
H		
G		
F		
E		
D	02-12-24	ADDED FIRE MUSTER POINT & SIGNAGE
C	14-06-24	ADDED NOTE RE INVESTIGATING EXISTING SERVICES
B	27-10-23	MOVED ACCESS TRACK TO REAR OF HALL
A	15-06-23	COMPLETED LOCATION AND SITE PLANS
	Date	Revisions

Client **TRIMLEY ST. MARTIN PARISH COUNCIL.**

Job Title **TRIMLEY MEMORIAL HALL,
HIGH ROAD,
TRIMLEY ST. MARTIN**

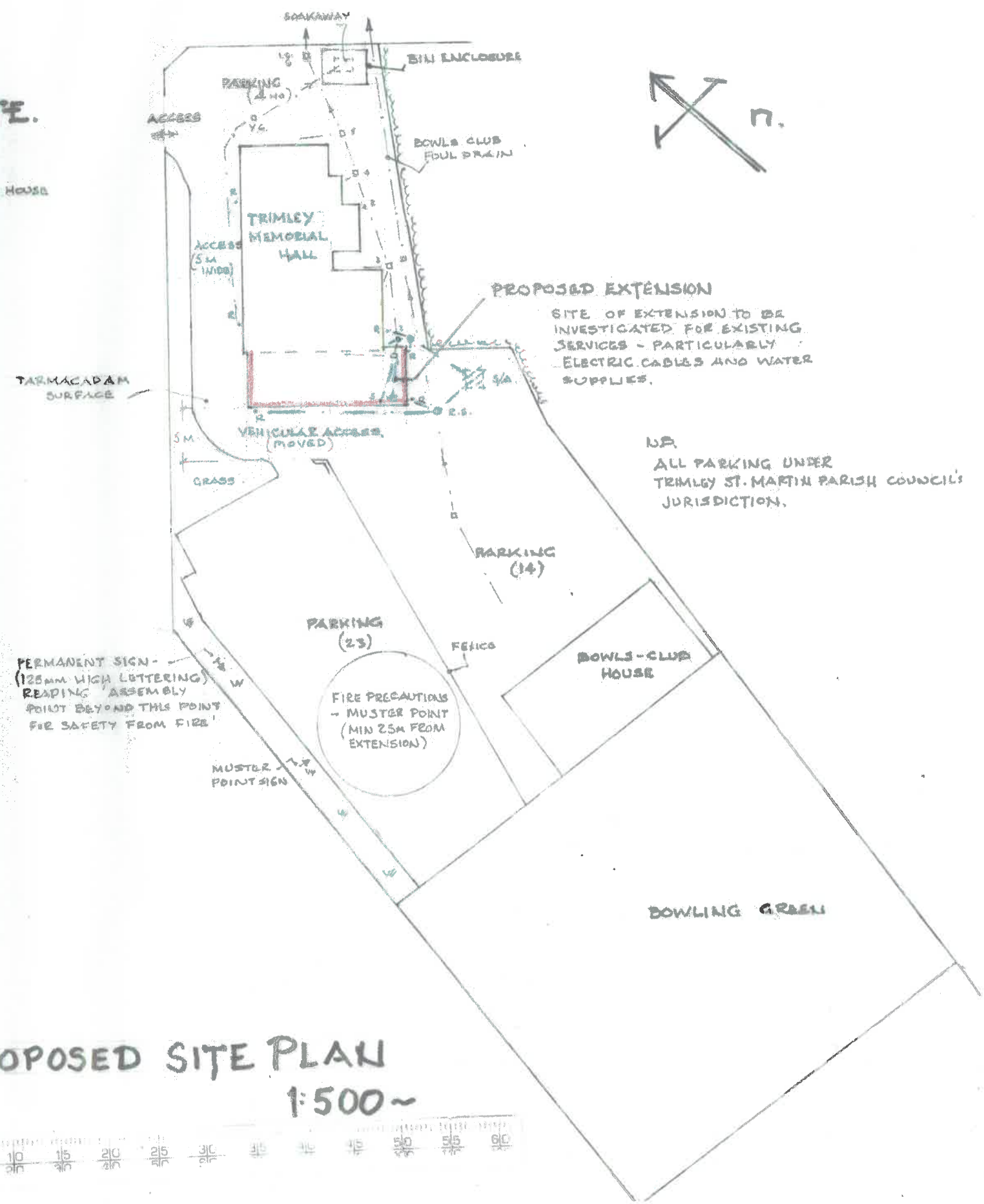
Drawing Title **EXTENSION TO PREMISES FOR
ADDITIONAL HALL, KITCHEN, AND
DISABLED TOILET FACILITY.**

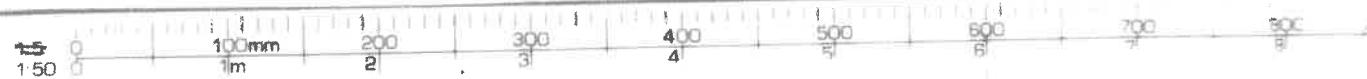
This Drawing

Scales **AS SHOWN.**

Date **MAY, 2023** Drawn by **ROBERT WILSON (01394-285284) MOBILE-07710-044-804**

Ref: **T.M.H./01/23** Rev: **XBCD**

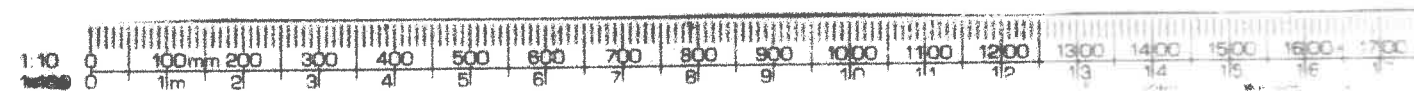
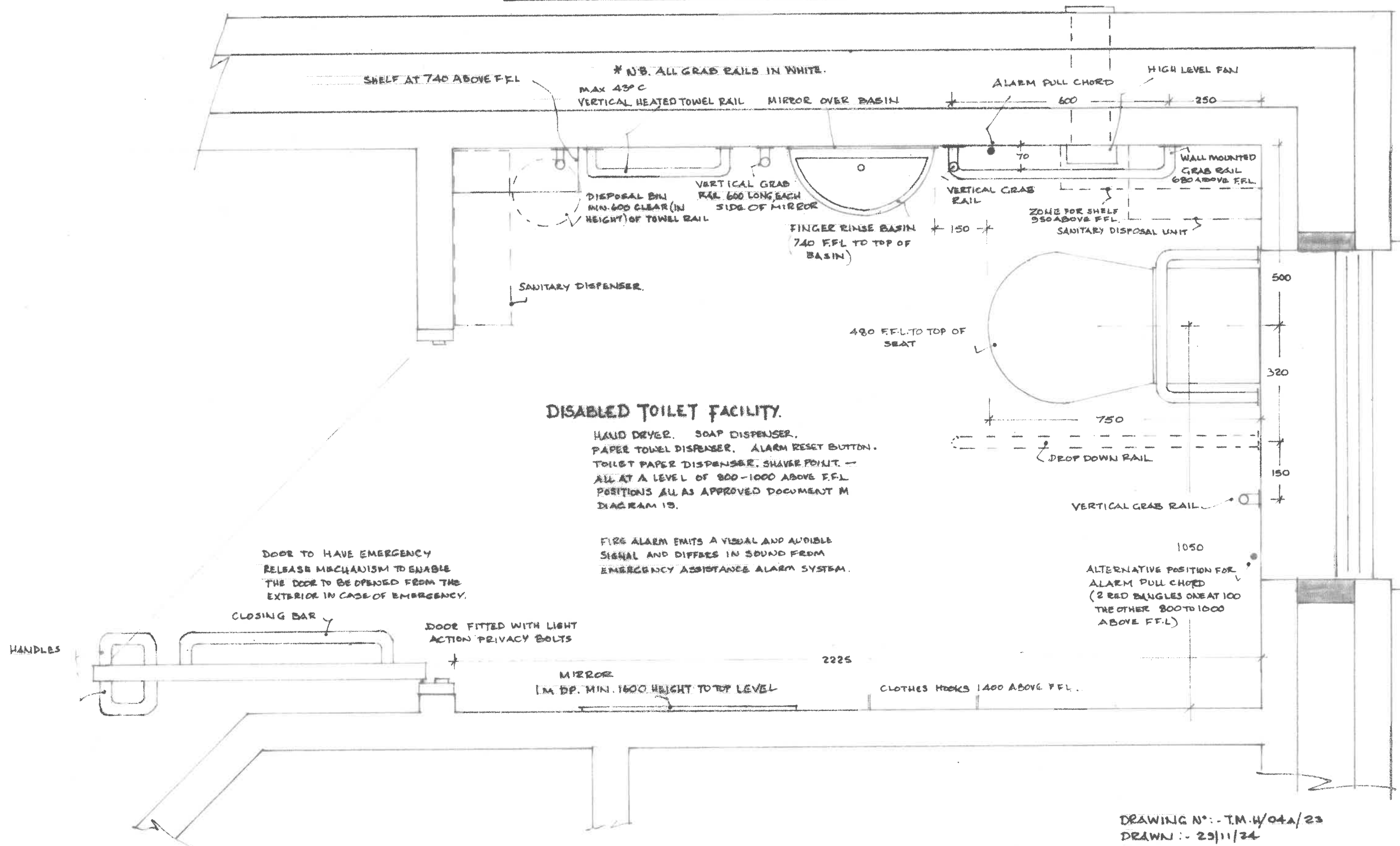




DETAILS OF DISABLED TOILET FACILITY

ALL IN ACCORDANCE WITH DIAGRAM 18 APP. DOCM.

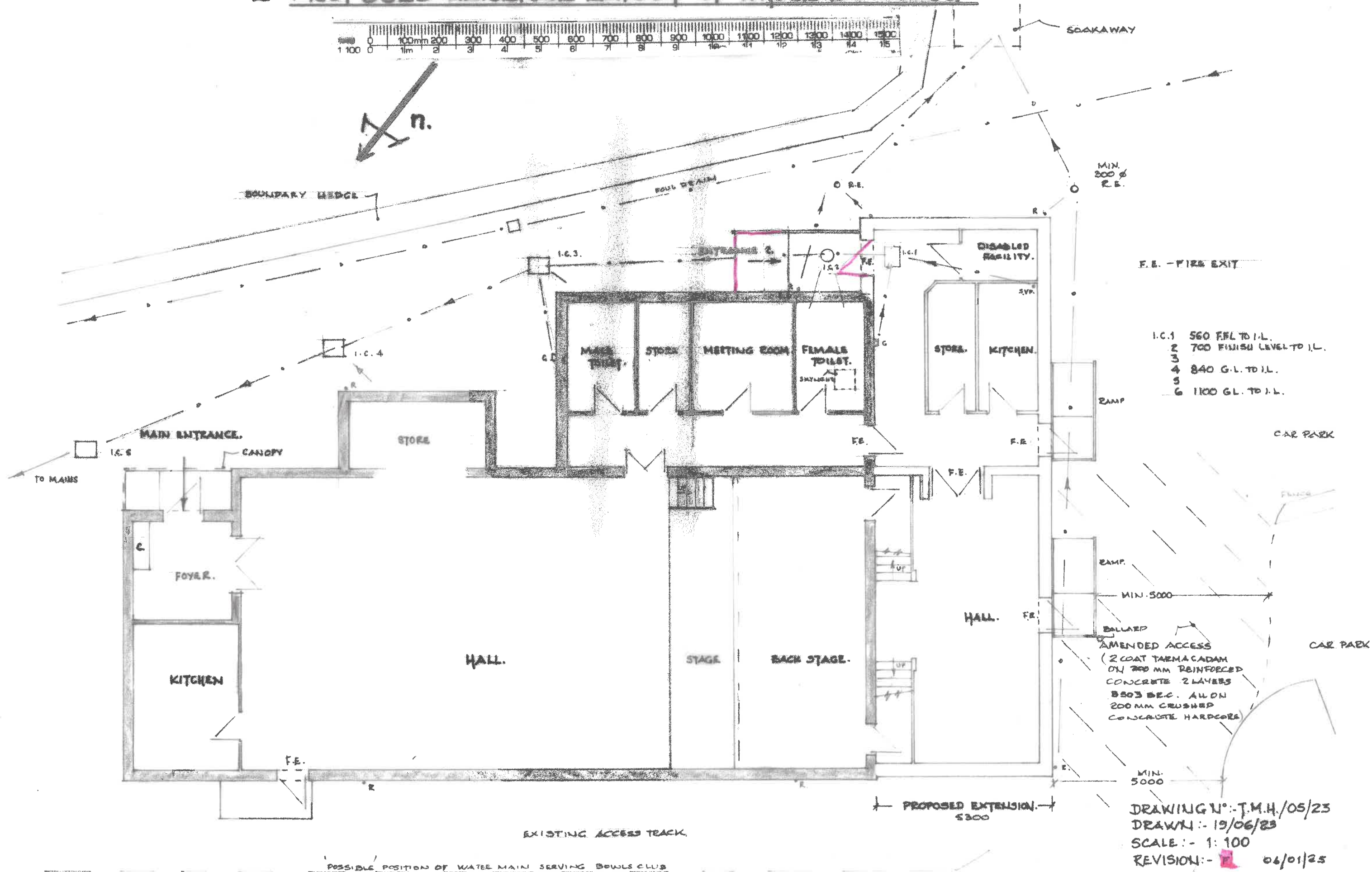
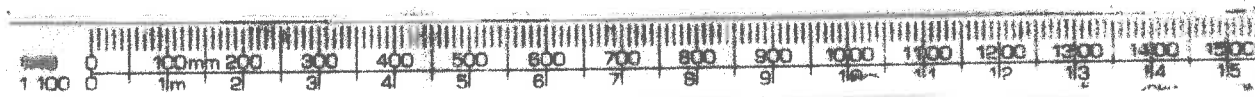
NOTE ALL MEASUREMENTS IN MILLIMETERS



DRAWING N°: - T.M.H/04A/23
 DRAWN: - 29/11/24
 SCALE: - 1:10
 REVISION: -

ACCESS TO AND USE OF BUILDING: - AN ACCESS STATEMENT TO BE PRESENTED TO BUILDING CONTROL PRIOR TO OCCUPATION

PROPOSED GENERAL LAYOUT OF WHOLE BUILDING



- I.C.1 560 FFL TO I.L.
- 2 700 FINISH LEVEL TO I.L.
- 3
- 4 840 G.L. TO I.L.
- 5
- 6 1100 G.L. TO I.L.

DRAWING NO. - J.M.H./05/23
 DRAWN - 19/06/23
 SCALE - 1:100
 REVISION - 06/01/25

DOOR SCHEDULE:-

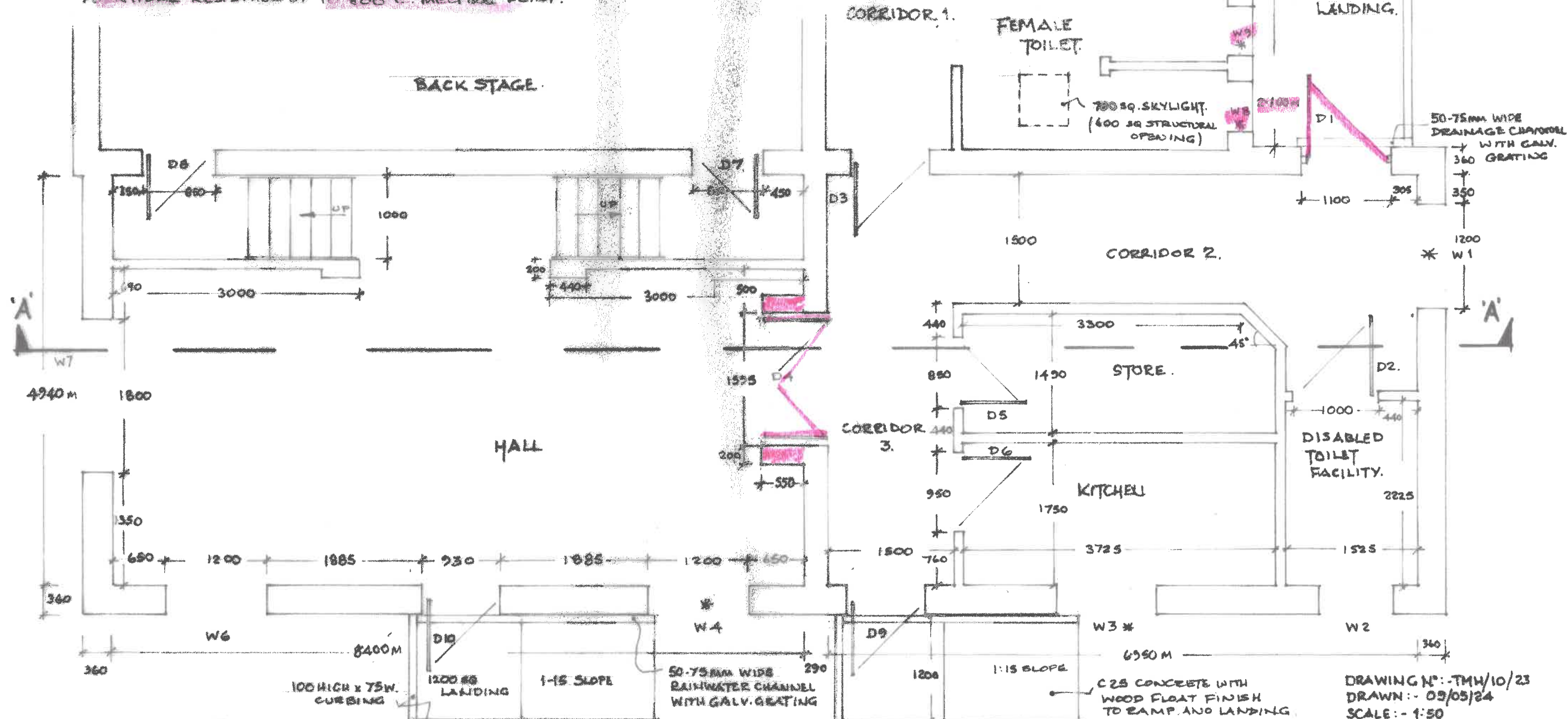
- D1 1000W x 1981H x 44mm. SOLID TIMBER WITH METAL SHEET (2mm) OUTER CLADDING IN EX 100 x 50mm REBATED SOFTWOOD FRAME. 'U' VALUE OF 1.40 W/M²K. FLEXIBLE WEATHER BAR. (LEVEL ACCESS)
- D2 920 x 1981H 30MIN FIRE RESISTANT IN 32mm LINING WITH 12mm DEEP SCREWED ON STOPS.
- D3 CHANGE EXISTING DOOR AND FRAME. PROVIDE 60mm FIRE RESISTANT DOOR IN 32mm LINING WITH 20mm DEEP SCREWED ON STOPS. GLAZING CLEAR 60MIN. FIRE RESISTANT IN HARDWOOD BEADING.
- D4 2NO 762 x 1981H 30MIN FIRE RESISTANT WITH 35mm REBATED MEETING STYLES. PROVIDE 450SQ. CLEAR 30mm. FIRE RESISTANT GLAZING IN HARDWOOD BEADING. LINING 32mm SOFTWOOD WITH 12mm DEEP SCREWED ON STOPS.
- D5 762 x 1981H 30MIN. FIRE RESISTANT IN 32mm LINING WITH 12mm DEEP SCREWED ON STOPS. DOOR TO BE KEPT LOCKED WITH SIGNAGE ABOVE DOOR STATING 'TO BE KEPT LOCKED AT ALL TIMES'
- D6 838 x 1981H 30MIN FIRE RESISTANT IN 32mm LINING WITH 12mm DEEP SCREWED ON STOPS. PROVIDE 450SQ. CLEAR 30MIN. FIRE RESISTANT GLAZED OPENING.
- D7 AND D8 762 x 1981H. 60MIN. FIRE RESISTANT DOORS IN 32mm LINING WITH 20mm DEEP SCREWED ON STOPS
- D9 AND D10 870 x 1981H. 30MIN FIRE RESISTANT DOORS IN 100 x 50 SOFTWOOD REBATED FRAME. DOORS FACED EXTERNALLY WITH 2mm METAL SHEET. 'U' VALUE 1.4 W/M²K. PROVIDE FLEXIBLE WEATHER BAR TO CILL. (LEVEL ACCESS)

NOTE

- PROVIDE OVERHEAD DOOR CLOSERS TO D2, D3, D4, D5, D6, D7 AND D8.
- ALL FIRE DOORS TO BE PART OF TESTED SET INCLUDING FRAME/LINING. NO BSPOKEWORK.
- ANY GLAZING APERTURE BELOW 800 ABOVE FLOOR LEVEL TO BE IN 6MM TOUGHENED GLAZING.
- INTERNAL DOORS WITH GLAZING APERTURES TO BE IN 6MM TOUGHENED GLAZING.
- ALL FIRE RESISTANT DOORS TO HAVE INTUMESCENT STRIPS TO DOOR EDGES AND HAVE FIBRE NATURE RESISTING UP TO 200°C MELTING POINT.

WINDOW SCHEDULE - WINDOWS MARKED S TO HAVE FULL RESISTANT GLAZING

- W1 1200 W x 600 H NON-OPENING.
W2. 500 x 400 H TOP HUNG OPENING.
W3. 1200 W x 1050 H 2 PANLIGHTS WITH 10000²MM TRICKLE VENT (T.V.)
W4 & W5. 1200 x 1200 2ND CASEMENT OPENINGS 10000 MM² T.V.
W7 1800 x 1500 H 2ND CASEMENT OPENINGS AND 10000 MM² T.V.
WINDOWS W3 W4 W5 W6 TO HAVE OPENINGS COMPLYING
WITH THE REGULATION FOR ESCAPE FROM BUILDING (I.E.
MIN. AREA OF 0.33M² AND WIDTH MIN 450, HEIGHT 740 CLEAR
MEASUREMENTS. BOTTOM OF OPENING BETWEEN 800 AND 1100
ABOVE FLOOR LEVEL.)
ALL WINDOW UNITS TO HAVE 'U' VALUE OF 1.40 W/M²K. MIN. DOUBLE GLAZED



~ EXTENSION DIMENSIONAL DRAWING AND WINDOW/DOOR SCHEDULE ~

DRAWING N°: -TMH/10/23
DRAWN: - 03/05/24
SCALE: - 1:50
REVISION: - 07/01/25



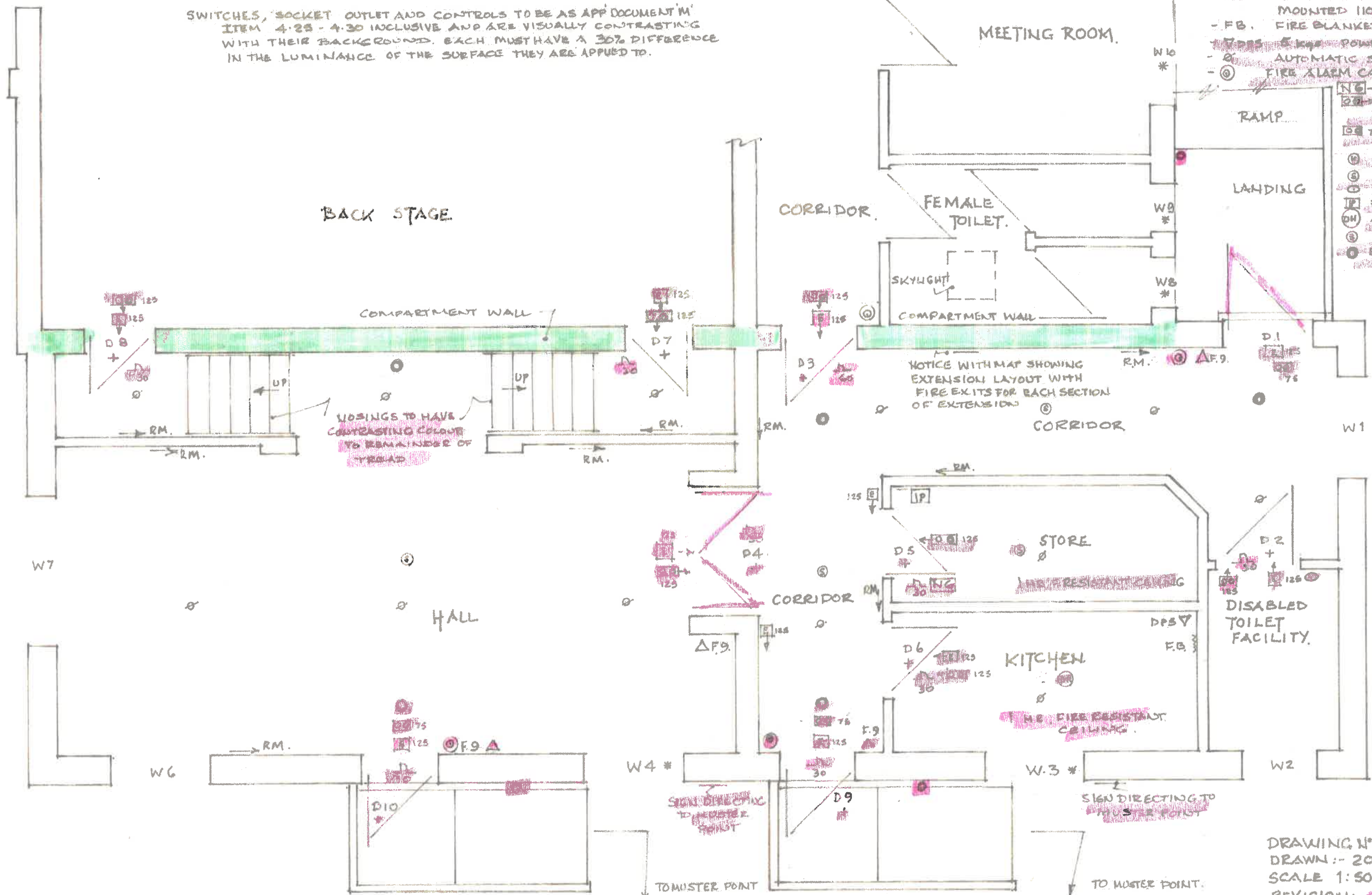
OWNER TO NAME TWO FIRE WARDENS. WARDENS TO ADMINISTER FIRE DRILL AND CHECK SU SYSTEMS ON 3 MONTH TIME BASIS. WEEKLY CHECK FIRE FIGHTING EQUIPMENT.

FIRE PRECAUTIONS - ALL TO FIRE STANDARD B.S. 5839 SEE DRAWING T.M.H/10/23 FOR WINDOW & DOOR DETAILS.



SWITCHES, SOCKET OUTLET AND CONTROLS TO BE AS APP DOCUMENT 'M' ITEM 4.25 - 4.30 INCLUSIVE AND ARE VISUALLY CONTRASTING WITH THEIR BACKGROUND. EACH MUST HAVE A 30% DIFFERENCE IN THE LUMINANCE OF THE SURFACE THEY ARE APPLIED TO.

- DOORS MARKED + FIRE DOORS
- WINDOWS MARKED * TO HAVE FIRE RESISTANT GLAZING
- ALL SIGNAGE - WHITE LETTERING ON GREEN BACKGROUND.
- E 125 FIRE EXIT SIGN
- E 125 FIRE EXIT DIRECTIONAL SIGN OVER DOOR
- R.M. - RUNNING MAN
- F.E. 9 LITRE FOAM EXTINGUISHER. MOUNTED 1100 ABOVE F.F.L.
- F.B. FIRE BLANKET
- P.D.S. 5 LITRE POWDER FILLED EXTINGUISHER
- A.S. AUTOMATIC SPROKLER
- F.A.C.P. FIRE ALARM CALL POINT
- F.D.N. FIRE DOOR NOTICE 'KEEP SHUT'
- E.L.D. EMERGENCY LIGHTING DIRECTIONAL BOX
- E.L.E. EMERGENCY LIGHTING EXIT BOX.
- H.D. HEAT DETECTOR (ELEC. OPTICAL)
- S.D. SMOKE DETECTOR (DITTO)
- F.A.V.D. FIRE ALARM VISUAL DEVICE
- F.A.I.P. FIRE ALARM INDICATE PANEL
- A.F.A.H. AUTOMATIC FIRE ALARM - HEAT
- S.D. DITTO - SMOKE
- E.L.P. EMERGENCY LIGHTING POINT



DRAWING N°: T.M.H/10A/23
DRAWN: - 20/11/24
SCALE 1:50
REVISION: 06/01/25

New Dig trial holes, at earliest convenience, for L.A. Building Control Officer (BCO) or Structural Engineer to inspect existing foundations subject to additional loads

1.Existing Foundations: Dig trial holes, prior to commencing work, for *Building Control Officer* (BCO) or Structural Engineer to inspect foundations subject to additional loads (beneath new roof purlins and flat roof joists). Any necessary underpinning in max.1200mm long, alternately excavated bays of C30 grade concrete. Provide 4no.12mm diameter, mild steel continuity bars in concrete that is min.200mm thick all around footing. Take up to within 75mm of footing and pack under with fine, weak mix concrete. Link old-to-new with 2no. 9mm mild steel bars in flexible sleeves, to both ends. Allow min.4 days for concrete to go-off before excavating adjacent bays.

2.New Foundations: 'Trench-fill' type, min.600mm wide in C30 grade concrete. Depths to be min.750mm or min.1200mm if digging in clay. Take foundations down to invert level of any adjacent foul drain. If digging in clay or in-fill substrate and building near to or removing trees or shrubs then consult the *NHBC (National House Builders Council) chapter 4.2 Building Near Trees* tables to determine foundation design. Join new foundations to existing via 2no. 9mm mild steel continuity bars in flexible sleeves. *R.A.Wilson* cannot accept responsibility for any problems arising from failed foundations.

3.Foul Drainage: New drain runs in 110mm diameter (dia.) pvc pipes bedded on 75th pea shingle and surrounded in 150mm selected granular fill of max.40mm diameter according to *Approved Document (A.D) Part H1* paragraph 2.41 diagram 10. Lay pipes to falls of min.1:70 max.1:40. Protect pipes where beneath the extension with 1000mm wide A142 BRC steel fabric. Centre fabric over drain and set min.40mm from top of concrete over-site. Inspection chambers (I.C) in polypropylene, bedded and surrounded in 100mm thick C15 grade concrete and topped with sealed, screw-down covers. Connections to inspection chambers via ¾ channel bends. Gully(s) bedded and surrounded in 100mm C15 grade concrete with sealed, screw-down covers. Where drains pass through foundations provide pre-cast, reinforced concrete bridging lintels with min.150mm bearings. Wrap around pipe with 75mm *Rockwool* mineral wool.

U-values (W/m²K) express energy (heat) loss through elements of the building fabric as; Watts (W) per square metre (m²) per degree difference in internal/external temperature – in Kelvins (K)
Insulation products to be installed according to specialist manufacturers literature; *Celotex Handy Guide 2022*
www.celotex.co.uk, www.isover.co.uk

4.Base: U-value of 0.15 W/m²K (*Approved Document Part L1B – Conservation of Fuel and Power*)
See *Section A-A* for specification for the hall floor. To flat roof section ; provide min.150mm consolidated hardcore layer, 38mm sand blinding, 1200 gauge *Visqueen EcoMembrane* d.p.m lapped up walls and tucked under horizontal d.p.c. On d.p.m. provide min.125mm C30 grade concrete over-site, 100mm *Celotex GA4000* rigid insulation with 500 gauge polythylene separation layer over, and min.80 mm 1:3 cement and sand screed with reinforcing fibres. Provide 25mm *Celotex* insulated edging to perimeter of over-site. Ensure continuous, lap-sealed d.p.m.

5.Cavity Walls: U-value of 0.23 W/m²K. (*A.D Part L1B*). Walls consisting of 2 no. skins with min.105mm cavity in-between. Tie across cavity with 200mm long, stainless steel ties to BS.1243. Ties at 750mm c/c horizontally, at 450mm c/c vertically, and at 225mm c/c to jambs of window and door openings. Install *Hyload* felt d.p.c horizontally at min.150mm above ground level. Fill cavity from min.150mm below d.p.c. (to overlap floor insulation) up to eaves and gables with 100mm *Isover Hi-Cav32* insulation batts (see Thermal Calcs). Link with roof insulation avoiding cold-bridging as shown on sections. Close cavity at jambs and sills of openings with insulated cavity closers, minimising cold-bridging and infiltration gaps. Below d.p.c. (inner skin) and ground level (outer skin); use common *Fletton* bricks or class 'B' concrete blocks. Above d.p.c. (inner); build-up in 100mm *Thermalite Turbo*, or equivalent, concrete blocks (λ of 0.15 W/m.K). Above d.p.c (outer); build-up in medium density concrete blocks. Apply 3 coats of 1:4 cement : sand render to BS 5262. Provide water drips over plinth and openings. 'Cut, tooth and bond' new work to existing and 'plug and screw' proprietary profile fixings, linking cavities and insulation to avoid cold thermal bridging.

6.Lintels: In mild-steel by *Catnic*. Exterior lintels to *CG* references on plan, *CH* to internal cavity walls and *CN* and *BSD* references to single leaf partitions. All having min.150mm bearings. Pack external lintels with insulation and provide lightweight plaster to inner faces. BCO to inspect capacity of any existing lintels subject to additional loads.

7.Partitions: Non load bearing partitions in 3Newton (N) concrete blocks built off of min.125mm C30 grade concrete over-site. Render and set both faces in plaster. Provide *Hyload* felt d.p.c at floor level.

8.Windows U-value of max. 1.10 W/m²K. Colour and style to match existing. All in uPVC and being double glazed, sealed units. All fixed to overlap cavity d.p.c. by min.50mm. Provide flexible mastic seals between frames and masonry, draught strips to perimeter and draught seals within frames of all openable elements. Min.28mm argon-gas filled gap between panes of low E coated *Pilkington K* glass. Ventilate main hall via opening light(s) equivalent to 1/50th of floor area, plus min.250mm² trickle vents per square metre of floor. Ventilate kitchen via opening light(s) of no min. size plus trickle vents of min.8000mm². W.C to have opening light of no min. size plus min.4000mm² trickle vent. Insulate window/door reveals with 20mm *Celotex TB4000*. Provide 6mm toughened glass to BS 6206 in the following circumstances; a) in windows below 800mm above floor level, b) in doors below 1500mm above f.l. or c) in windows within 300mm of opening doors. **Emergency escape** openings from Hall (inner room) via fully opening, unrestricted casements of min.0.33m². Clear width of opening min.450mm and clear depth of min.740mm. Bottom of opening element to be min.800mm, and max.1100mm above finished floor level.

9.Skylight: U-value 2.20 W/m²K. Double up joists either side of *Velux* CFP/CVP flat roof light and bolt together with M12 bolts through double-sided toothed connectors at max.800mm c/c. Trim joists in other direction with 2no. 50mm x depth of joist timbers fixed into double rafters. Installation and roof flashing all as per manufacturers instruction.

10.Back-stage Stairs: In FSC accredited timber. 1000mm clear width between 38mm stringers. Max. 200mm risers and min.300mm goings. Treads 25mm thick with min.15mm nosings. Provide handrail at min.900mm above pitch line. Balustrade min.1100mm above floor level with spindles at max.99mm c/c. Newel posts min.100x100mm.

11.Electrics: All work to comply with *A.D Part P1 (Electrical Safety)*. Must be designed, installed, inspected and tested by a registered, competent person who will provide *Building Control* with an 'Electrical Installation' certificate (BS 7617) and satisfy the inspector that *A.D P1* has been complied with. All prior to completion.

Alarm/sprinkler system to BS 5839.6 2004. All inter-linked units, independently hardwired to mains and with own fuse. Any residual circuit breaker (r.c.b.) protection to alarm to operate independently of any r.c.b. to socket outlets or portable equipment. All to BS 5446. External lighting LED or CFI with dawn-dusk sensors.

12.Mechanical Fans: From kitchen, extracting at 60 l/s. From w.c. extracting at 6 l/s. From hallway, extracting at 0.5 l/s. Passive ventilation to store.

13.Sanitaryware: Waste runs in polypropylene with access eyes at all 90° bends and 75mm deep sealed traps beneath units. Runs over 4.0m and combined runs in 50mm dia. pipe with 25mm dia. anti-syphonage between trap and vent. Otherwise; from basins, sinks and machines in 40mm dia. pipe. Provide 110mm diameter polybutylene soil and vent pipe (s.v.p) with 135° bend in base. Terminate pipe with 'balloon' at min.900mm above any opening within 3m. Connections to s.v.p at 92.5° with min.200mm between inverts. Seal around all service pipes penetrating cavity walls, floor or ceiling. Hot water to appliances in 15mm dia. polybutylene, lagged within voids in 15th *Armaflex* insulated casing.

Contact Anglian Water re: free water saving measures

14.Rainwater Disposal: Perform soil percolation test according to *A.D Part H 3.23-3.30* and submit test results to *Building Control* prior to commencing work. Rainwater via guttering , depth and profile to match existing. Gutter to fall into min.68mm diameter down-pipes into water butts with 40mm high level overflow pipe to gullies (with lightweight covers) and into 100mm diameter pvc pipes laid to falls of min.1:80 max.1:40. Bed and surround in granular fill (150mm thick). Protect pipes, where beneath vehicle access, with concrete slabs laid over run and with min.300mm bearings onto virgin soil. Take to soak-away(s) min. 5.0m from any building with a capacity of; area of roof to drain x 0.022 (East Anglia)– see soil test above. Fill soak-away to 300mm above invert with soak-away crates, cover with old carpet or polythene and return top soil.

Any deviation from plans as 'Fully Approved' to be agreed with Building Control Officer prior to implementation.

15.Space Heating: Via electrical air cooling/heating system. Appliances and installation to comply with *Approved Document P (Electrical Safety)* and other guidance/regulations regarding heating and cooling systems in village halls. Engineer to provide durable operating and maintenance instructions and Commissioning / Installation certificate to *ESC Building Control*, prior to being signed-off.

Thermal Calcs - Memorial Hall, Trimley

Floor	p	a	p/a
Perimeter:area ratio p/a	27.80	76.80	0.4
Phenolic insulation (m) (λ)	0.100	0.022	
U-value			0.15
			W/m²K

Element	Thickness (m)	Lambda (λ)	Resistance (m/λ)
Cavity Walls			
Internal surface	n/a	n/a	0.120
Plaster	0.008	0.570	0.014
Insulated Lining	0	0.022	0
Concrete blocks	0.100	0.150	0.667
Cavity insulation	0.105	0.032	3.281
Outer skin - med density block	0.100	1.130	0.088
Render	0.020	0.570	0.035
External surface	n/a	n/a	0.060
Total resistance			4.266
			m²K/W

U-Value	1	4.266	0.23	W/m²K
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Roof - sloping thru rafters			
Internal surface	n/a	n/a	0.120
Plasterboard	0.013	0.250	0.052
Insulation beneath	0.025	0.022	1.136
Rafter members	0.150	0.130	1.154
Low E gap	0	0.156	0
Tiles	0.020	1.500	0.013
External surface	n/a	n/a	0.060
Resistance R1			2.536
			m²K/W

thru insulation			
Internal surface	n/a	n/a	0.120
Plasterboard	0.013	0.210	0.062
Insulation beneath	0.025	0.022	1.136
Insulation between	0.150	0.022	6.818
Low E gap	0	0.156	0
Tiles	0.020	1.500	0.013
External surface	n/a	n/a	0.060
Resistance R2			8.210
			m²K/W

Timber width + centres	0.038	0.600	0.063	Fractional area F1
	1		0.937	Fractional area F2

U-value			0.14	W/m²K
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Flat Roof (Warm) - thru' joists			
Internal surface	n/a	n/a	0.120
Plasterboard	0.013	0.250	0.052
Joists	0.220	0.130	1.692
Plywood	0.018	0.130	0.138
Furring pieces - average	0.060	0.130	0.462
Plywood	0.018	0.130	0.138
Insulation over	0.120	0.022	5.455
Plywood	0.018	0.130	0.138
Built-up felt	0.012	0.230	0.052
External surface	n/a	n/a	0.060
Resistance R1			8.188
			m²K/W

- thru insulation			
Internal surface	n/a	n/a	0.120
Plasterboard	0.013	0.250	0.052
LowE cavity/void	0.220	0.156	1.410
Plywood	0.018	0.130	0.138
Furring space (ave.)	0.060	0.156	0.385
Plywood	0.018	0.130	0.138
Insulation over	0.120	0.022	5.455
Plywood	0.018	0.130	0.138
Built-up felt	0.012	0.230	0.052
External surface	n/a	n/a	0.060
Resistance R2			7.949
Timber width + centres	0.050	0.400	0.125
			0.875

U-value			0.13	W/m²K
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DRAWING REF : T.M.H/11/23
DRAWN : JUNE 2024
REVISION : 0.02/10/24