

WAINUIORU SCHOOL
BLOCK 1 CLASSROOM UPGRADE

Cnr Westmere & Stronvar Roads
RD10
Masterton

for
Wainuioru School Board of Trustees

DRAWINGS

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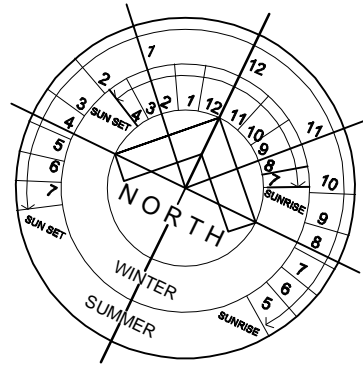
IR Group Ltd

Design - Project Management - Planning

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Issue Date
16-01-2017

Preliminary
Drawings



Floor Plan
scale 1:750

WESTMERE MAIN HIGHWAY

LOCATION OF AREA IN
BLOCK 1 TO BE UPGRADED

GRASS
PLAYING
(i)

PAVED
PLAYING
(ii)


ADVEN.
PLAYING
(i)

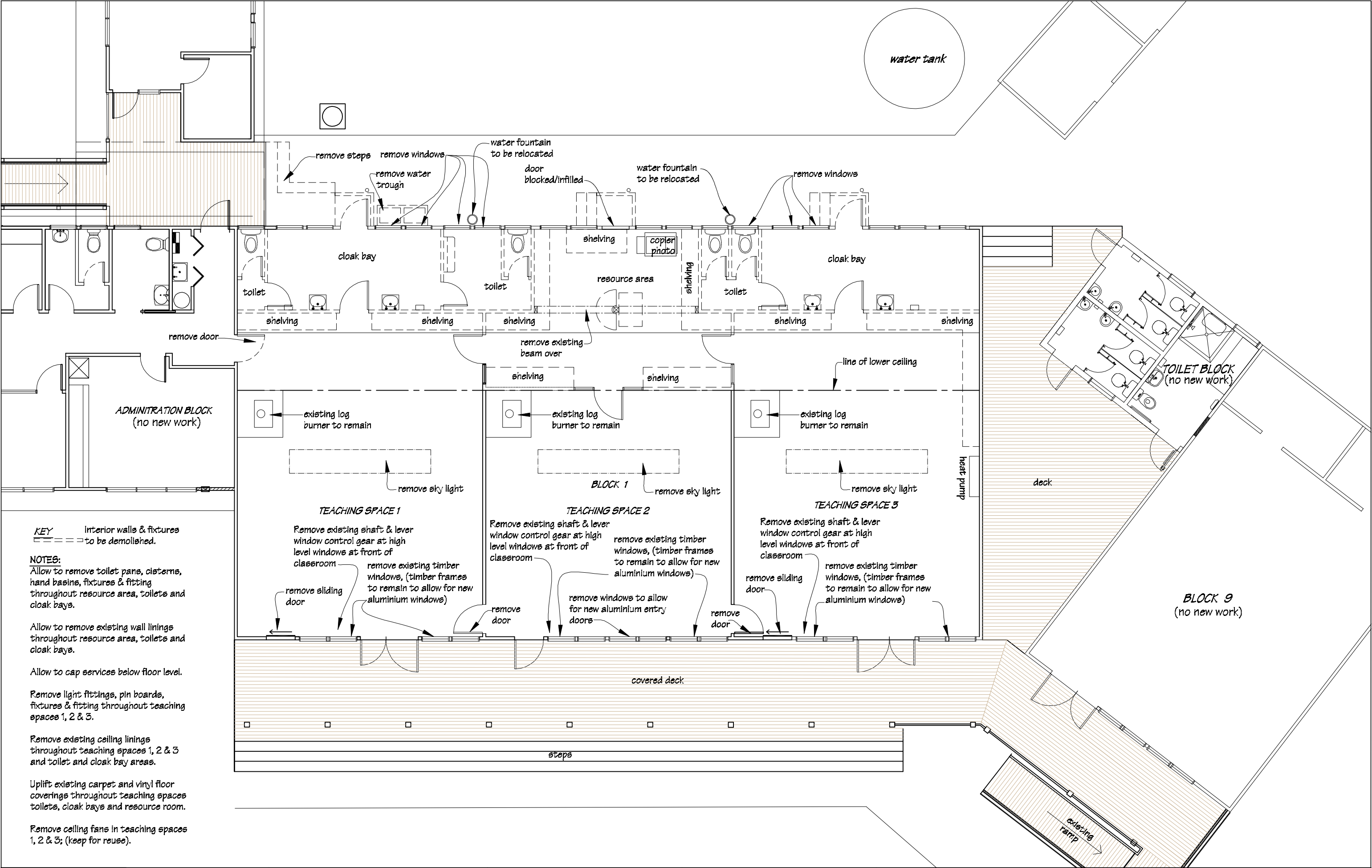
MASTERTON HIGHWAY


LEGAL INFORMATION
Part Te Ngutukoko Number 3 Block
ADDRESS
Wainuioru School
Cnr. Westmere & Stronvar Roads
Masterton
SITE INFORMATION
Exposure Zone B.
Earthquake Zone 3.
Wind Zone - Very High

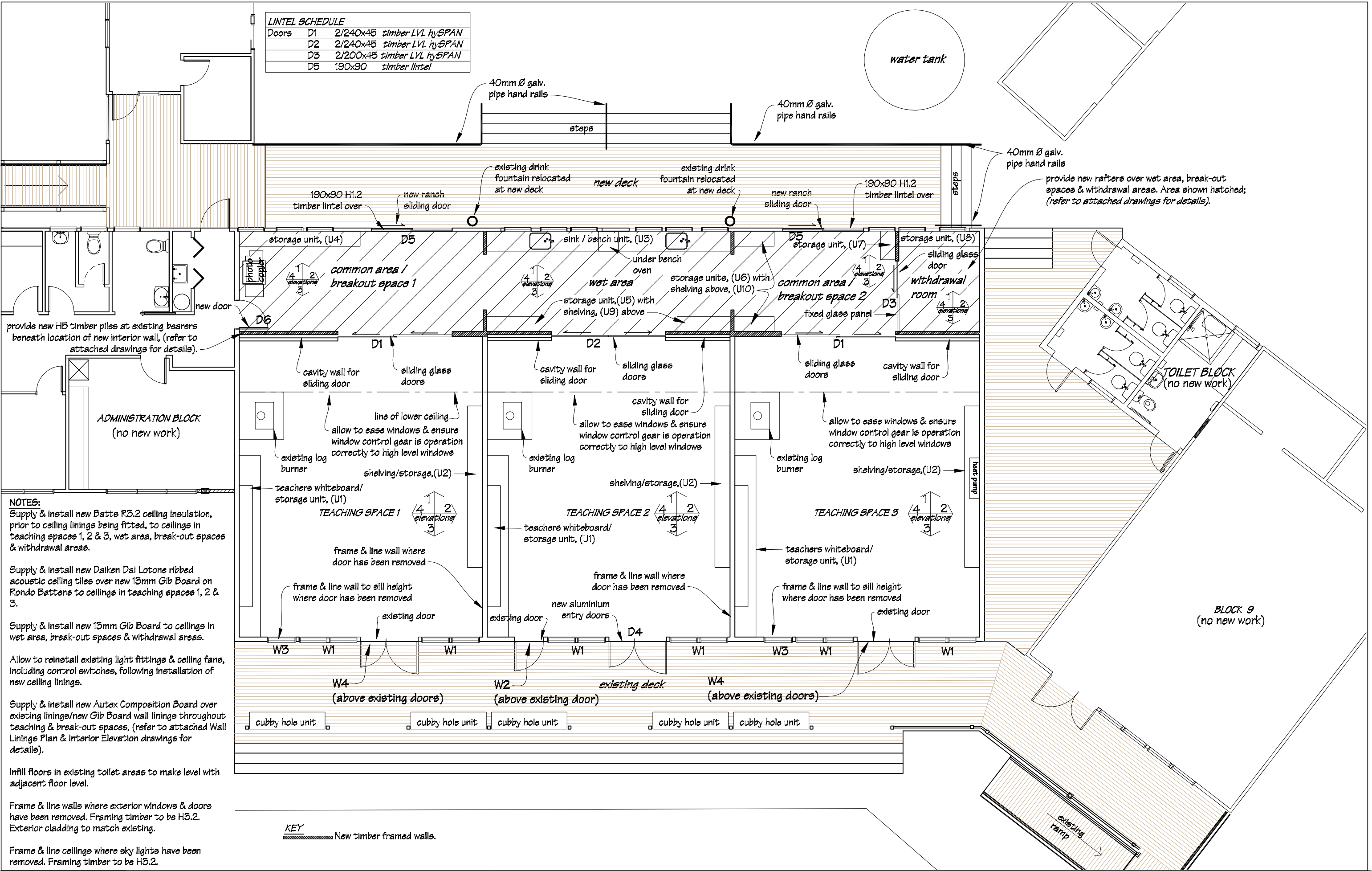
Floor Plan
scale 1:300

Temporary 1.8m high chain
mesh & pipe fence on concrete
bases to form construction
zone

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						Date	16/01/17	
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						Sheet No	1 of 33	
						Dwg Ref	1	



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	Mobile- Stephen 027-3355889					Original sheet size A3		
	Email- ian@irgroup.co.nz					Drawn S.T.		Do not scale from drawings. Check all dimensions on site.
	steve@irgroup.co.nz					Sheet No 2 of 33		
	www.irgroup.co.nz					Dwg Ref 2		
	Web-							



LINTEL SCHEDULE

Doors	D1	2/240x45	timber LVL hySPAN
	D2	2/240x45	timber LVL hySPAN
	D3	2/200x45	timber LVL hySPAN
	D5	190x90	timber lintel

NOTES:
Supply & install new Batts R3.2 ceiling insulation, prior to ceiling linings being fitted, to ceilings in teaching spaces 1, 2 & 3, wet area, break-out spaces & withdrawal areas.

Supply & install new Daiken Dai Lotone ribbed acoustic ceiling tiles over new 13mm Gib Board on Rondo Battens to ceilings in teaching spaces 1, 2 & 3.

Supply & install new 13mm Gib Board to ceilings in wet area, break-out spaces & withdrawal areas.

Allow to reinstall existing light fittings & ceiling fans, including control switches, following installation of new ceiling linings.


Supply & install new Autex Composition Board over existing linings/new Gib Board wall linings throughout teaching & break-out spaces, (refer to attached Wall Linings Plan & Interior Elevation drawings for details).

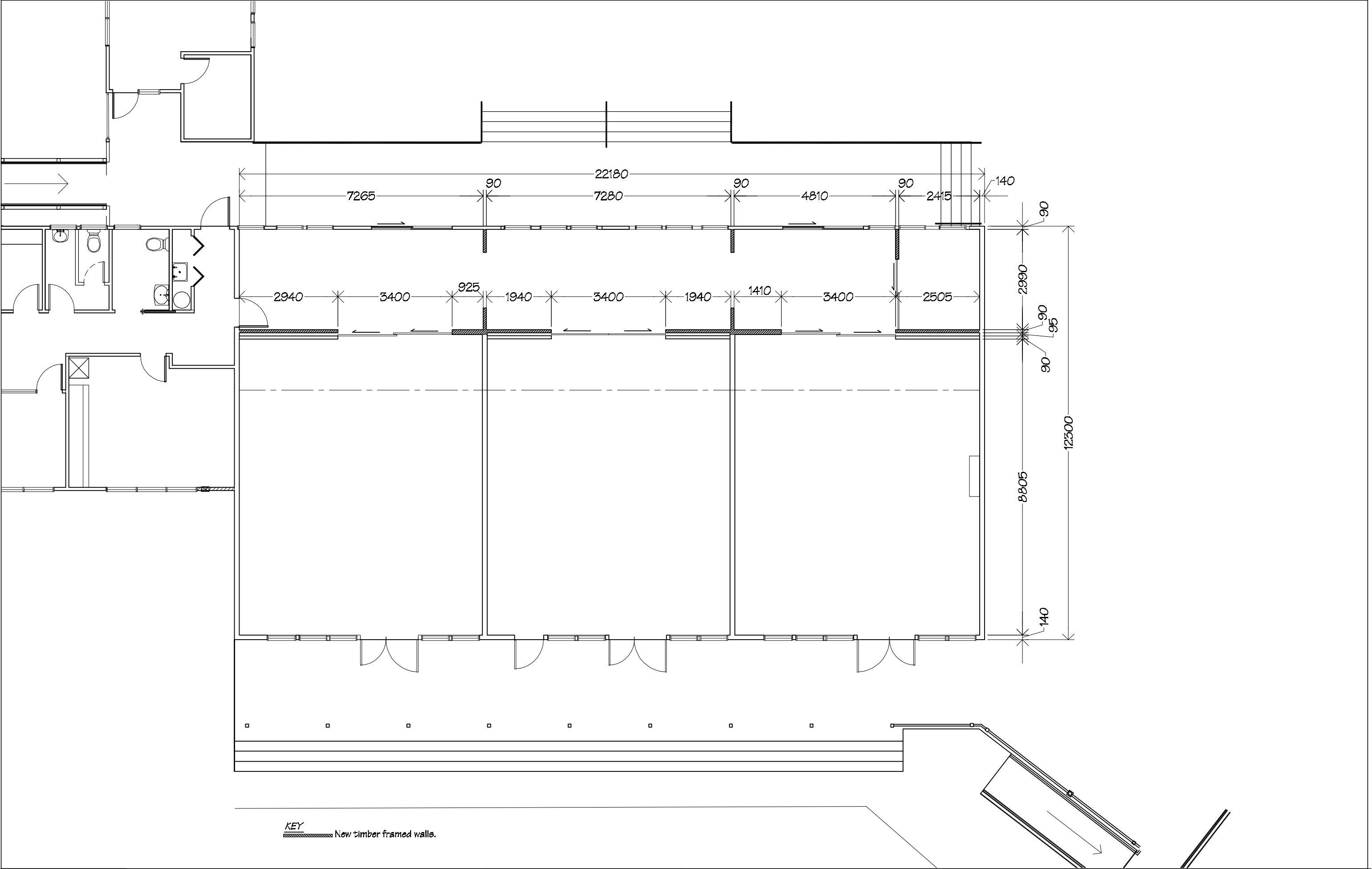
Infill floors in existing toilet areas to make level with adjacent floor level.


Frame & line walls where exterior windows & doors have been removed. Framing timber to be H3.2. Exterior cladding to match existing.

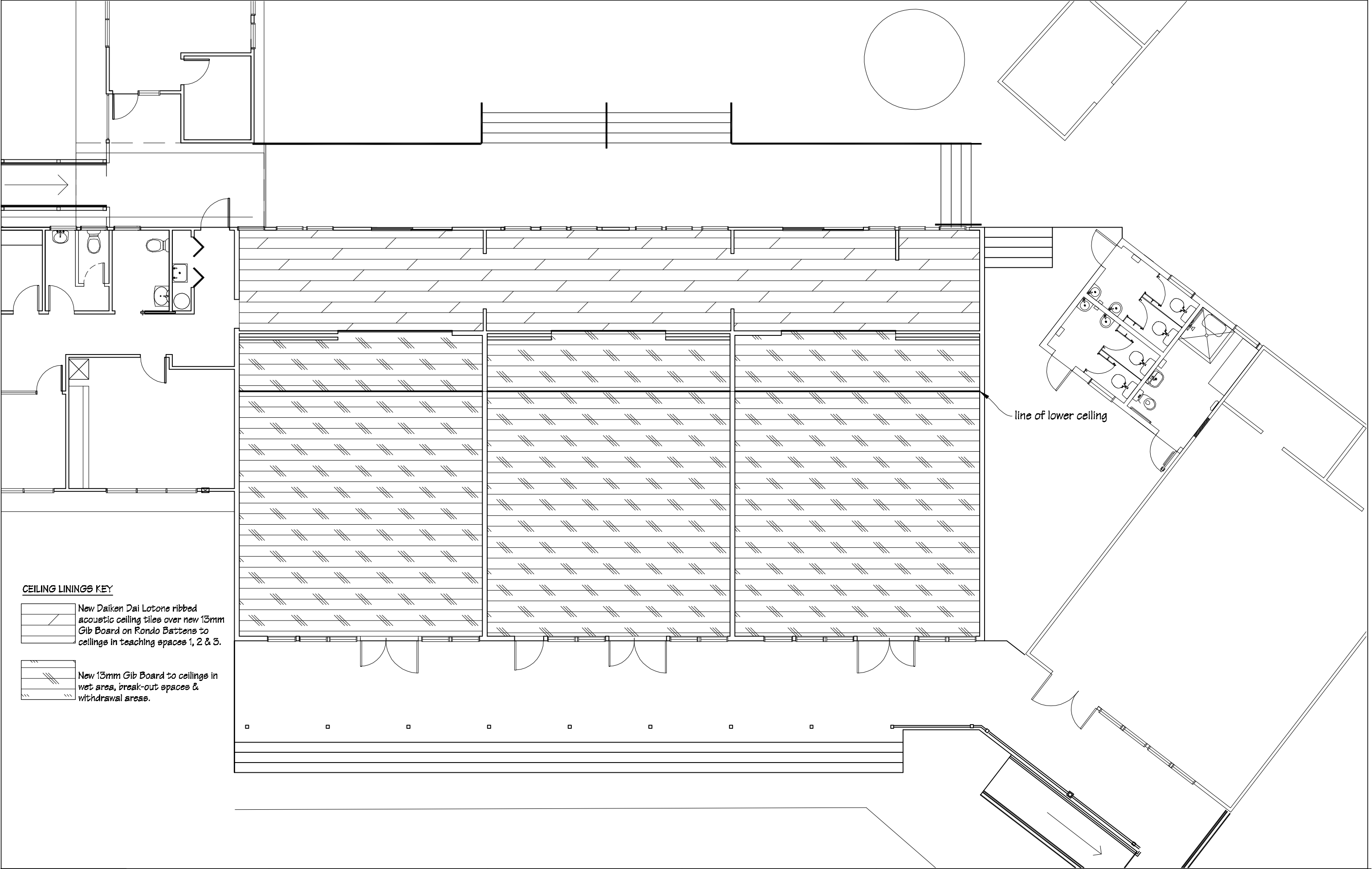
Frame & line ceilings where sky lights have been removed. Framing timber to be H3.2.


KEY
New timber framed walls.

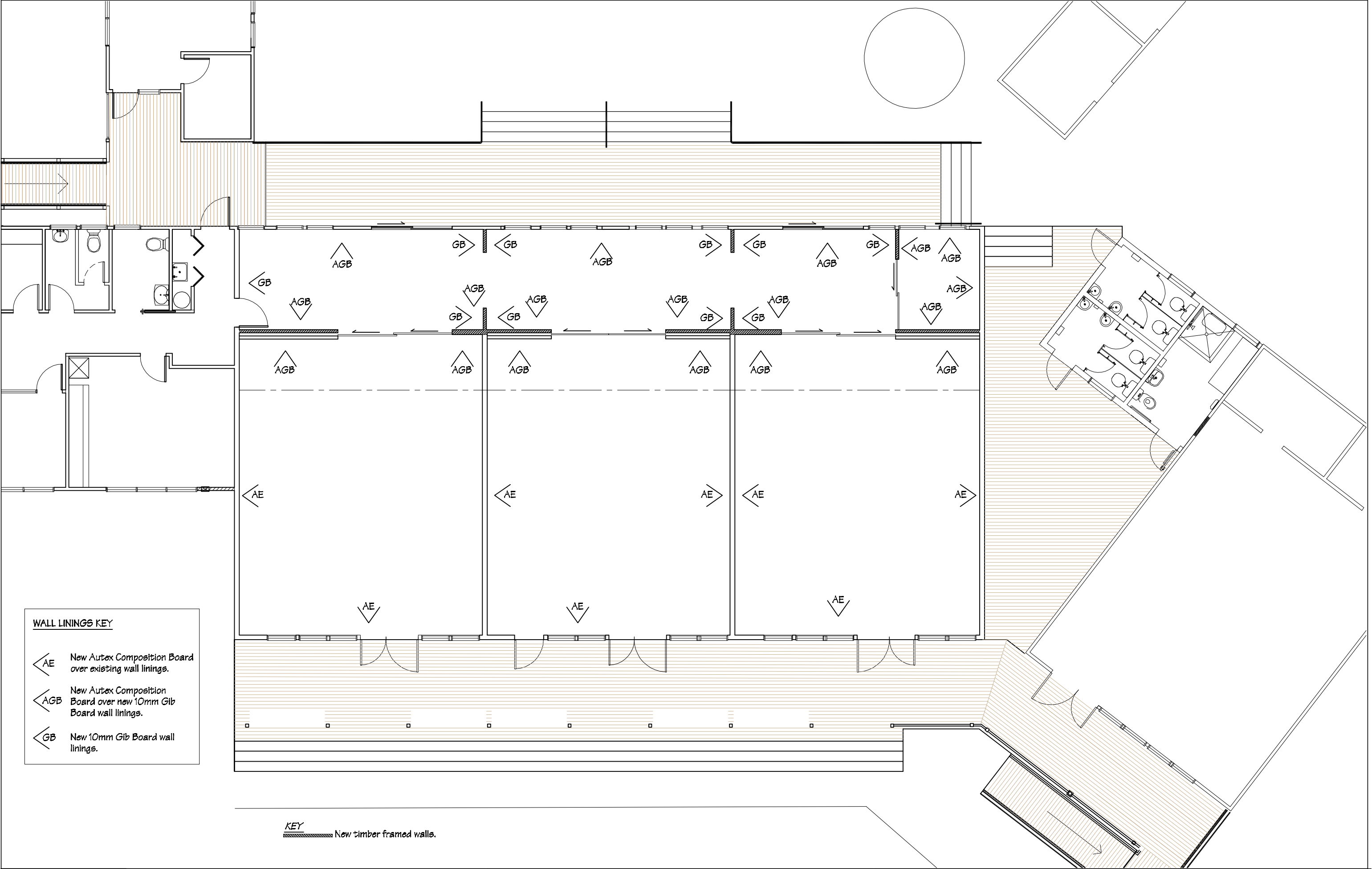
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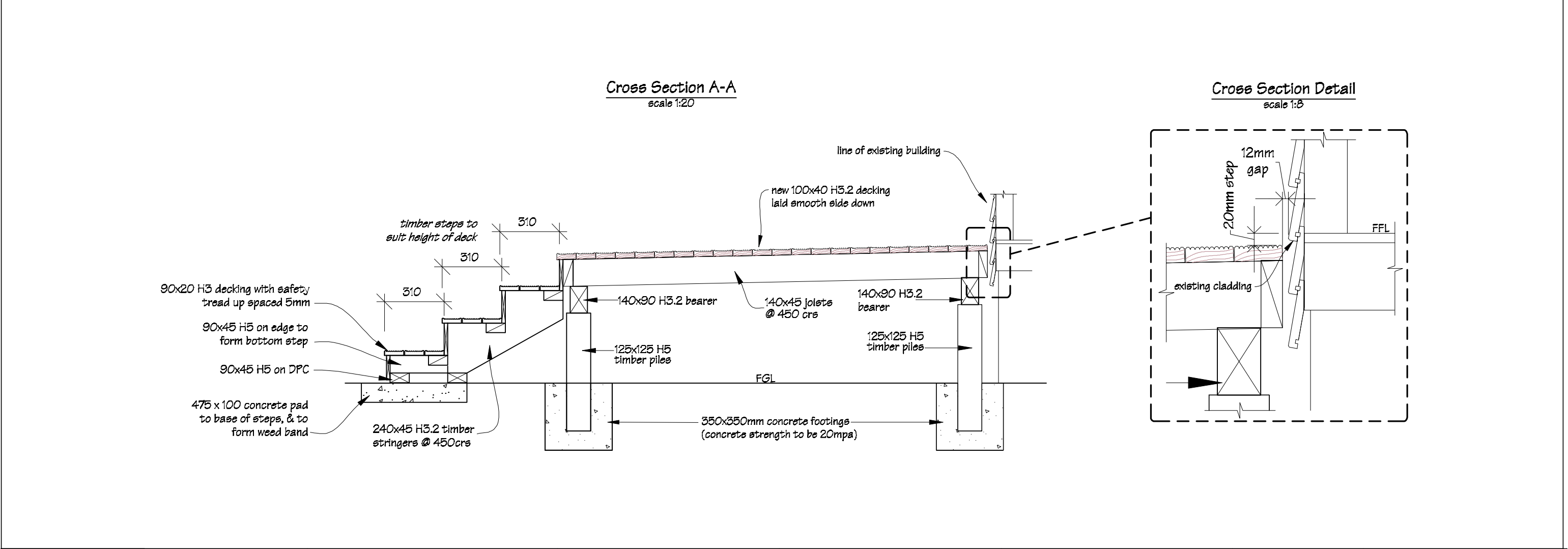
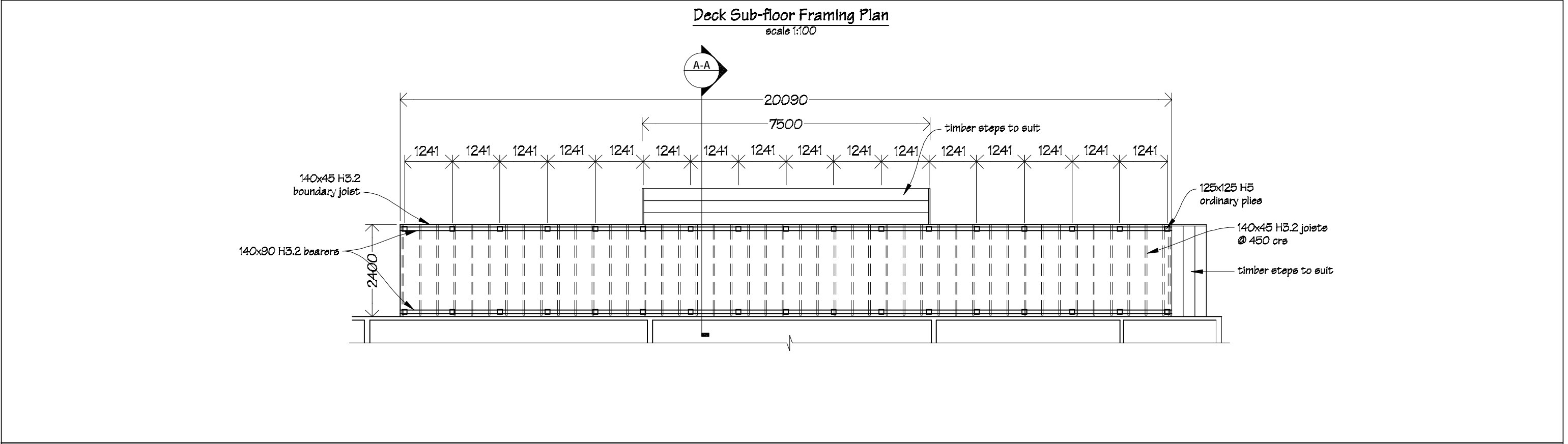
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	Mobile- Stephen 027-3355889					Original sheet size A3		
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	steve@irgroup.co.nz					Sheet No 4 of 33		
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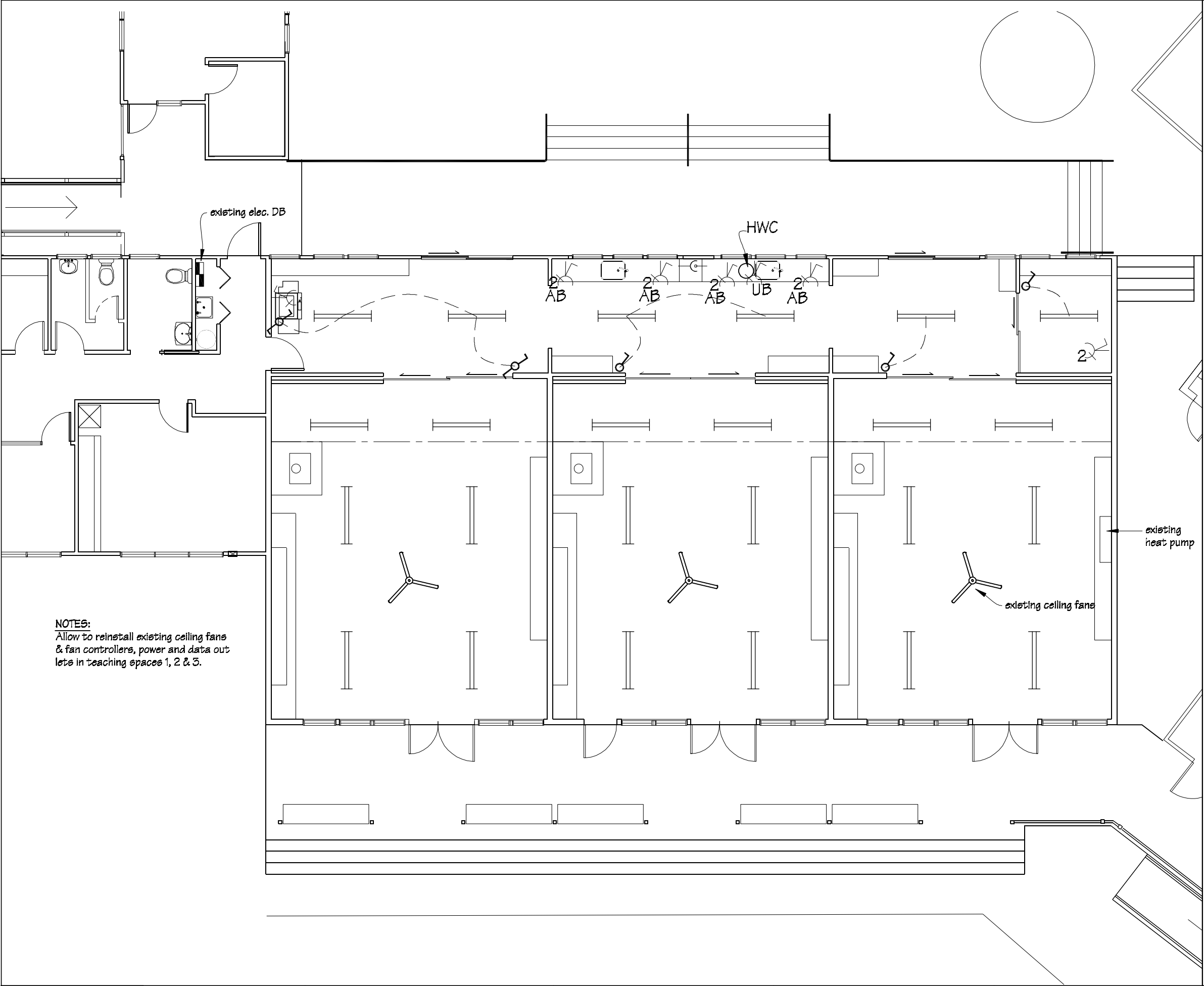
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	Mobile- Ian 021-427.347				No Date Description	Date 16/01/17		
	Mobile- Stephen 027-3355889					Original sheet size A3		
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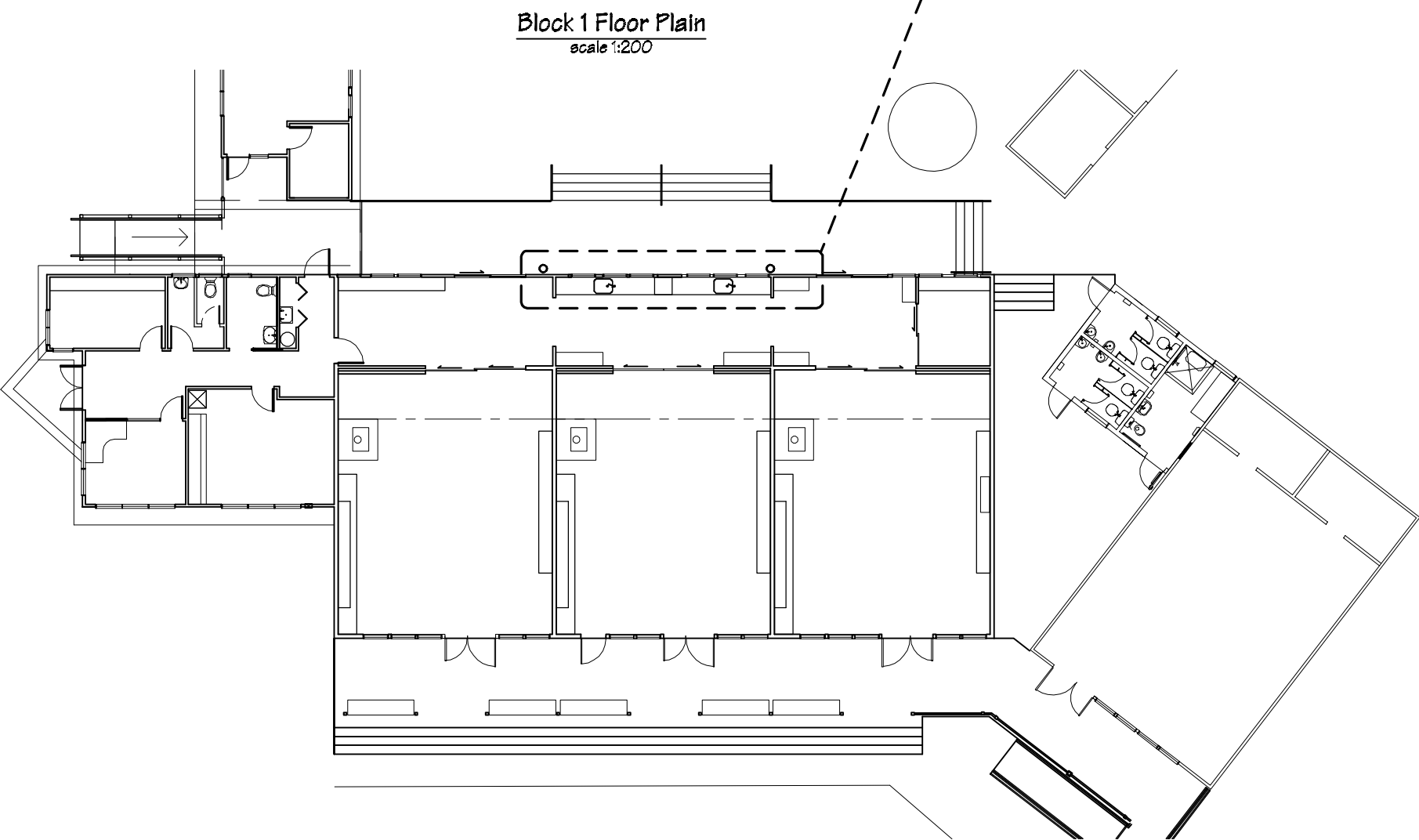
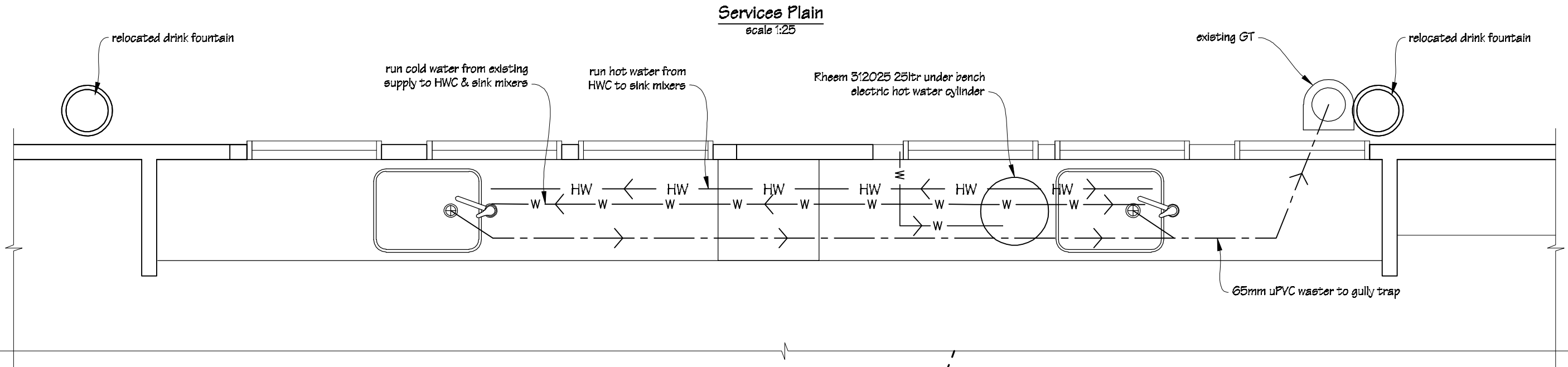
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	Mobile- Ian 021-427.347				No	Date	Description		Date	16/01/17
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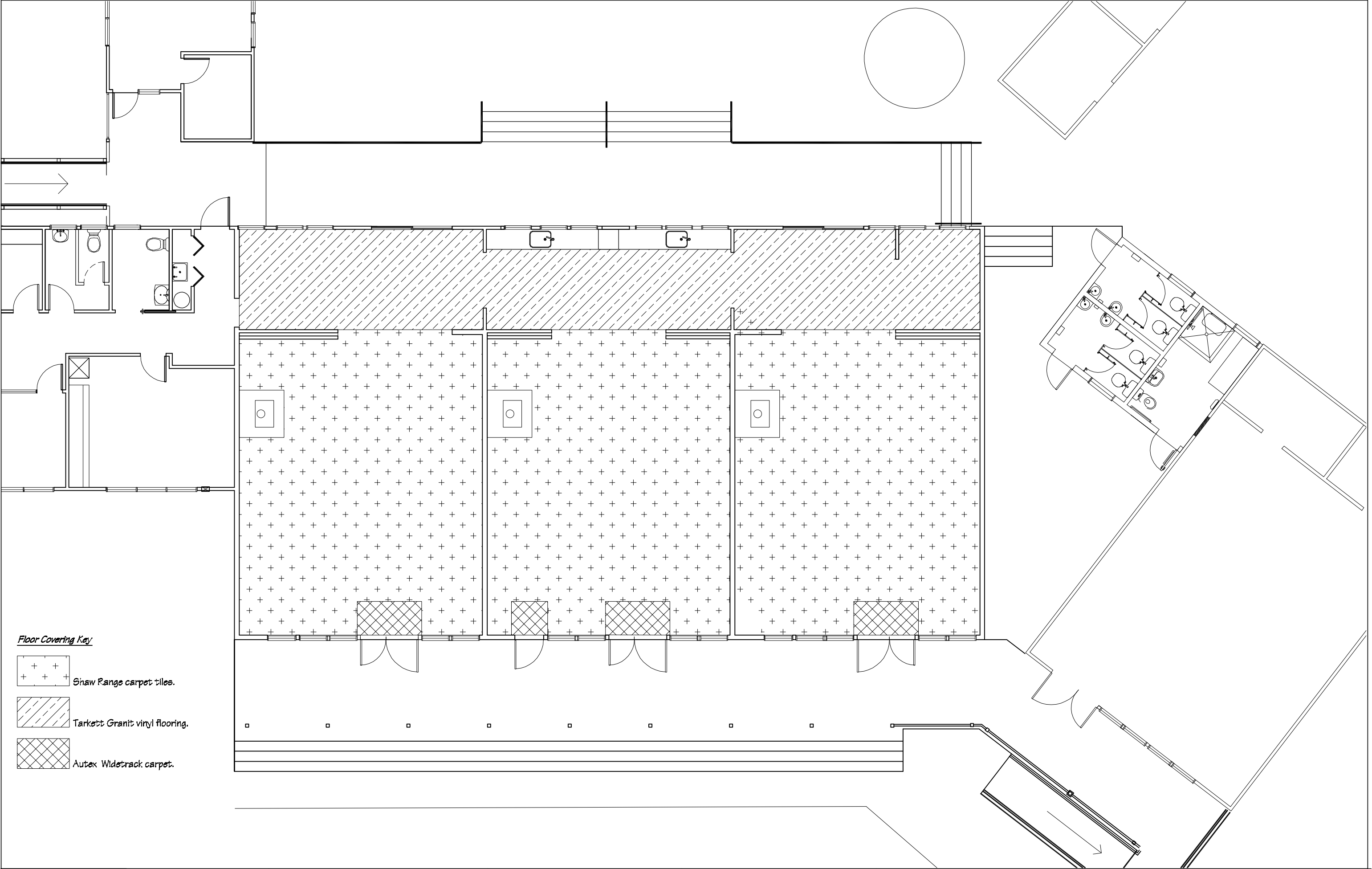


- ELECTRICAL KEY**
- Existing distribution board.
 - New LED light fittings;
Light fittings to be Harvard LED NDL502 ceiling mounted.
 - New one way light switch 10A flush mounted.
 - Two way switch 10A flush mounted
 - 2 Switched socket outlet 10mA RCD double flush mounted, located above bench.
AB
 - Switched socket outlet 10mA RCD single flush mounted under bench.
UB
 - Switched socket outlet 10mA RCD single flush mounted, located 300mm above FFL.
 - Switched socket outlet 10mA RCD double flush mounted, located 300mm above FFL.
2
 - Range outlet.
 - HWC; Rheem 312025 25 litre electric under bench hot water cylinder.

NOTES:
Allow to reinstall existing ceiling fans & fan controllers, power and data outlets in teaching spaces 1, 2 & 3.

 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Electrical Plan	REVISIONS	Scale 1:100	Preliminary Drawings
	Mobile- Ian 021-427.347				<u>No</u> <u>Date</u> <u>Description</u>	Date 16/01/17	
	Mobile- Stephen 027-3355889					Original sheet size A3	<i>Do not scale from drawings. Check all dimensions on site.</i>
	Email- ian@irgroup.co.nz					Drawn S.T.	
	steve@irgroup.co.nz					Sheet No 8 of 33	
	www.irgroup.co.nz					Dwg Ref B	





Floor Covering Key

+

+


+

+

Shaw Range carpet tiles.

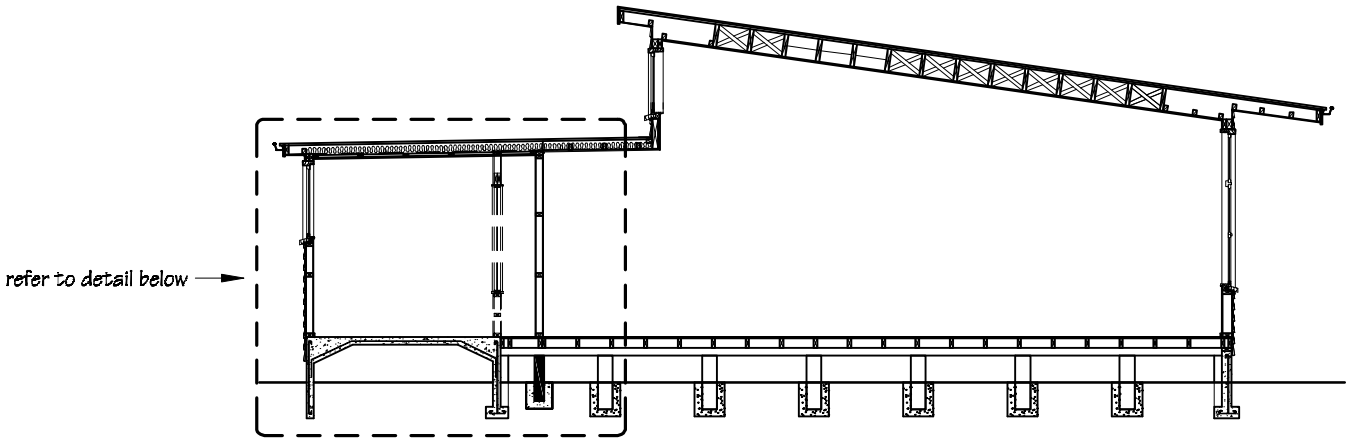
Tarkett Granit vinyl flooring.

Autex Wideltrack carpet.

 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Floor Coverings Plan	REVISIONS	Scale 1:100	Preliminary Drawings	
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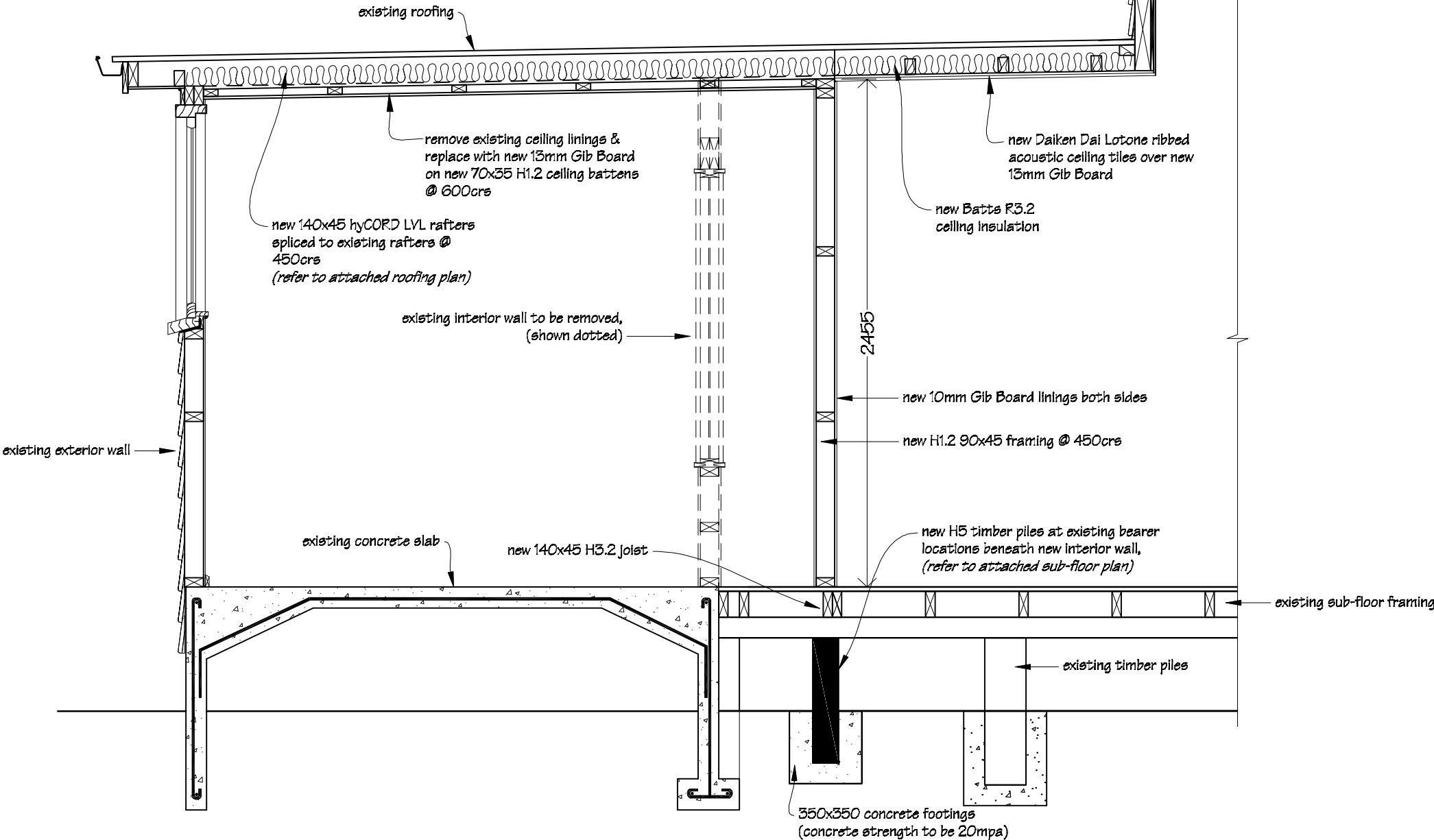
Typical Classroom Block Cross Section


scale 1:100



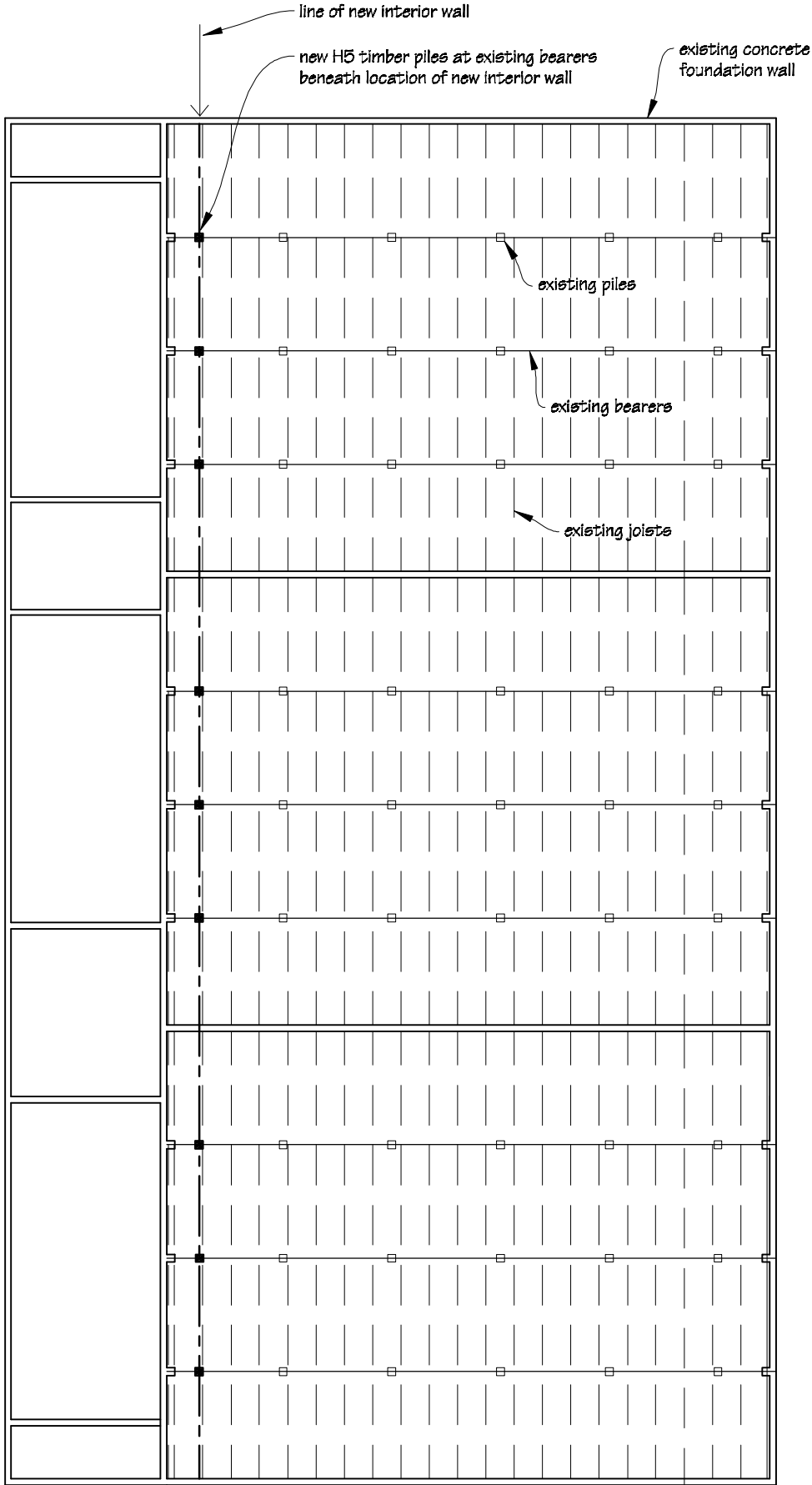
Cross Section Detail

scale 1:25

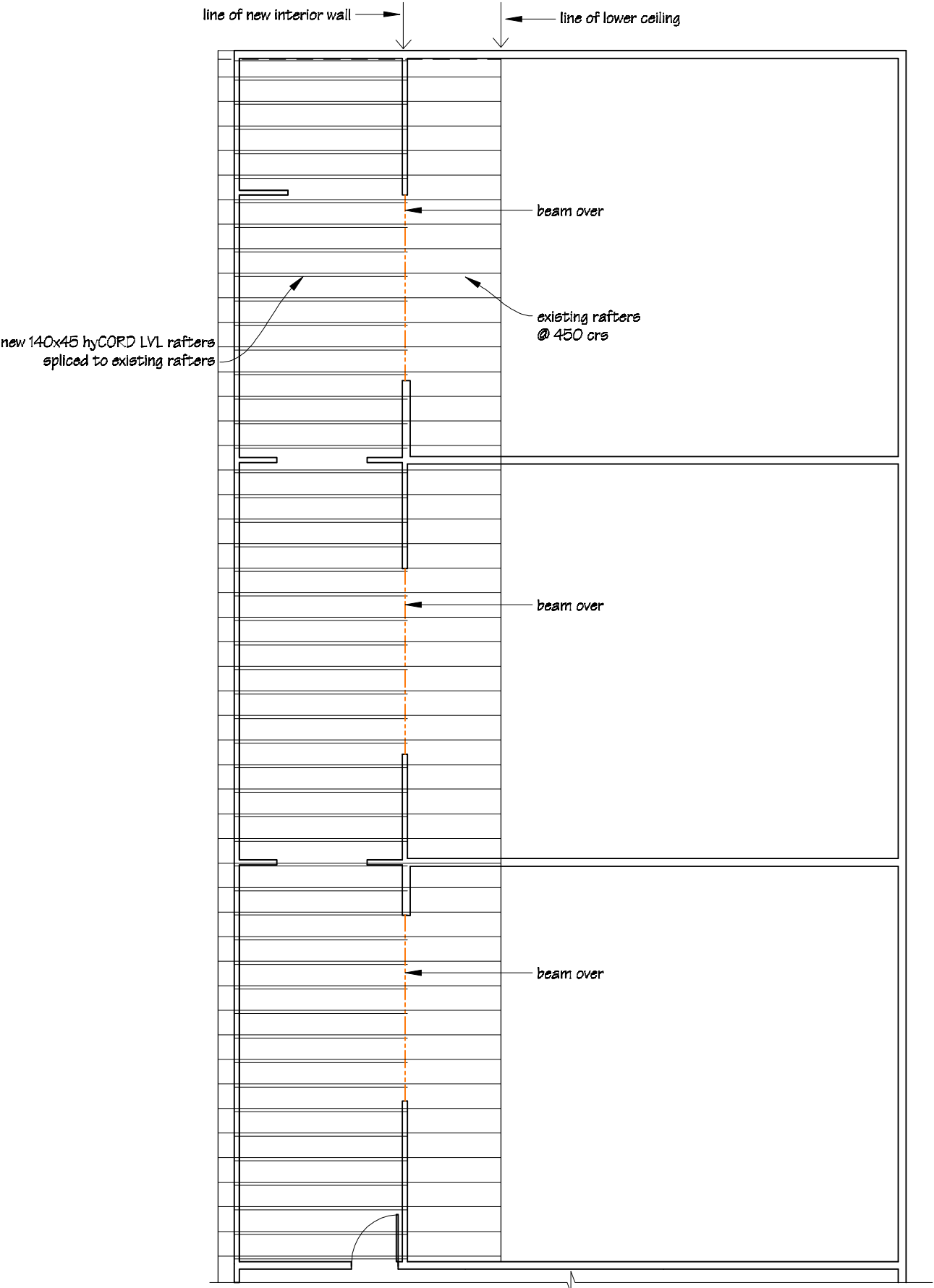


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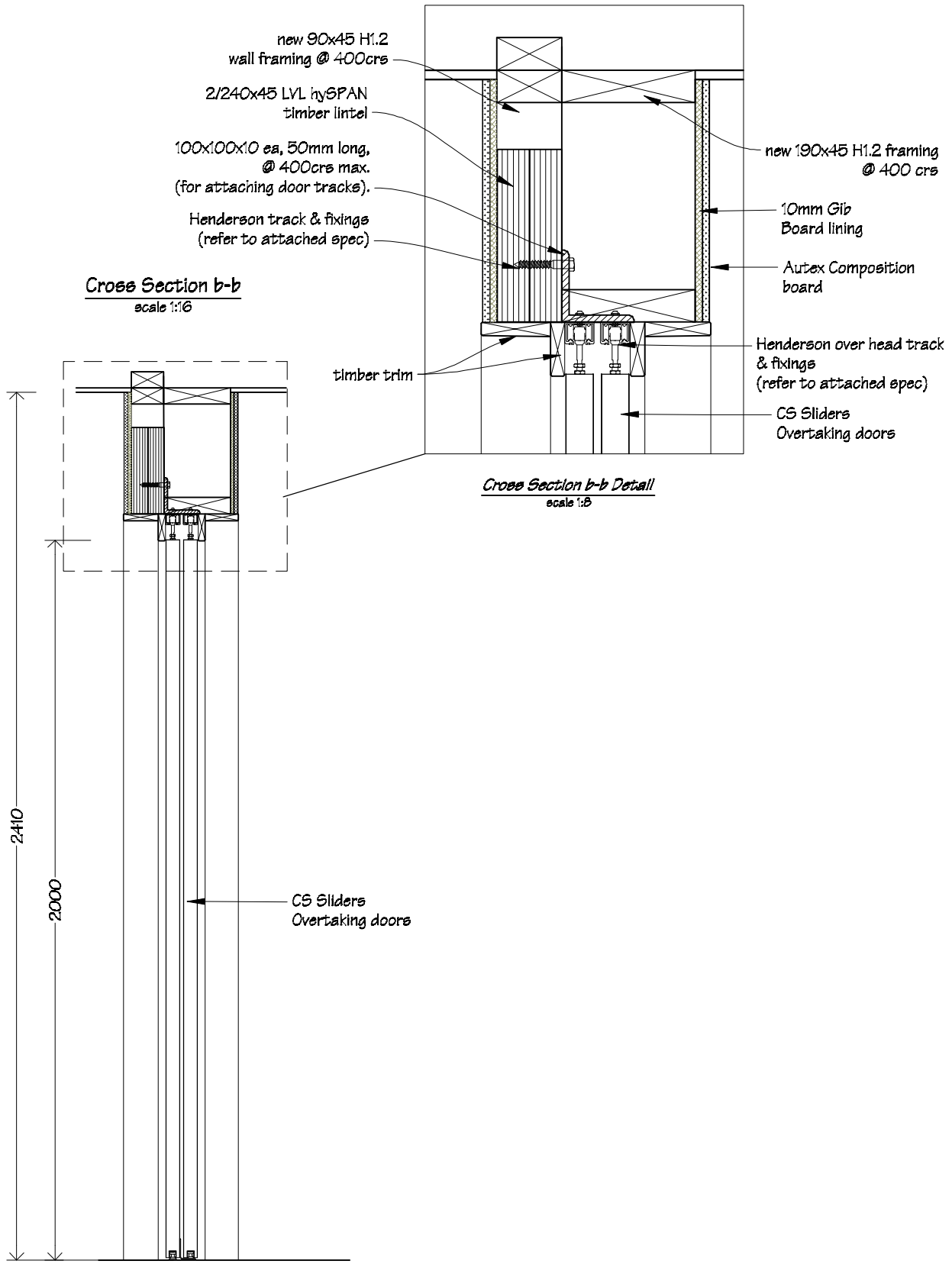
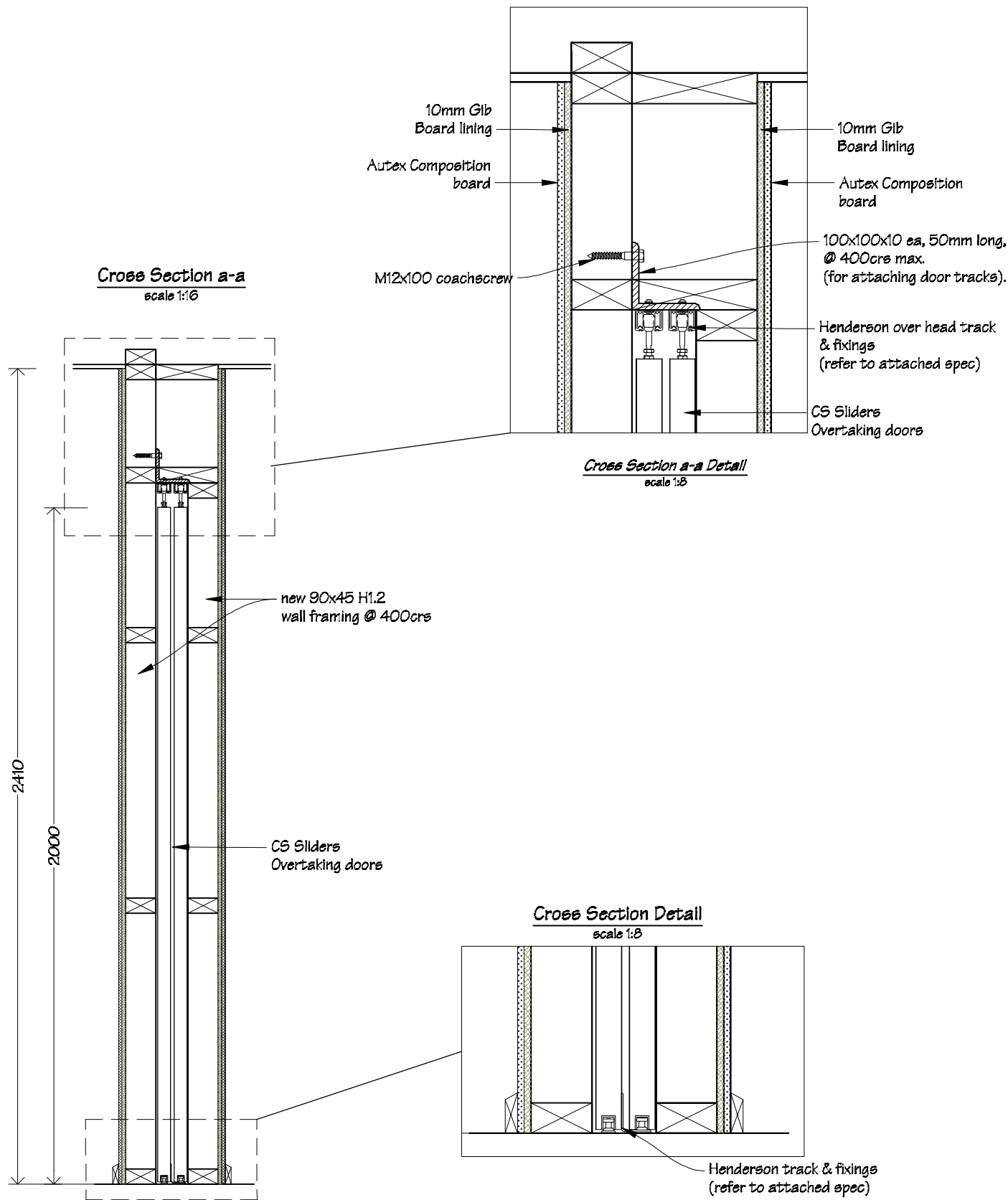
Typical Classroom Block Sub-Floor Framing Plan
scale 1:100




Part Roof Framing Plan
scale 1:100

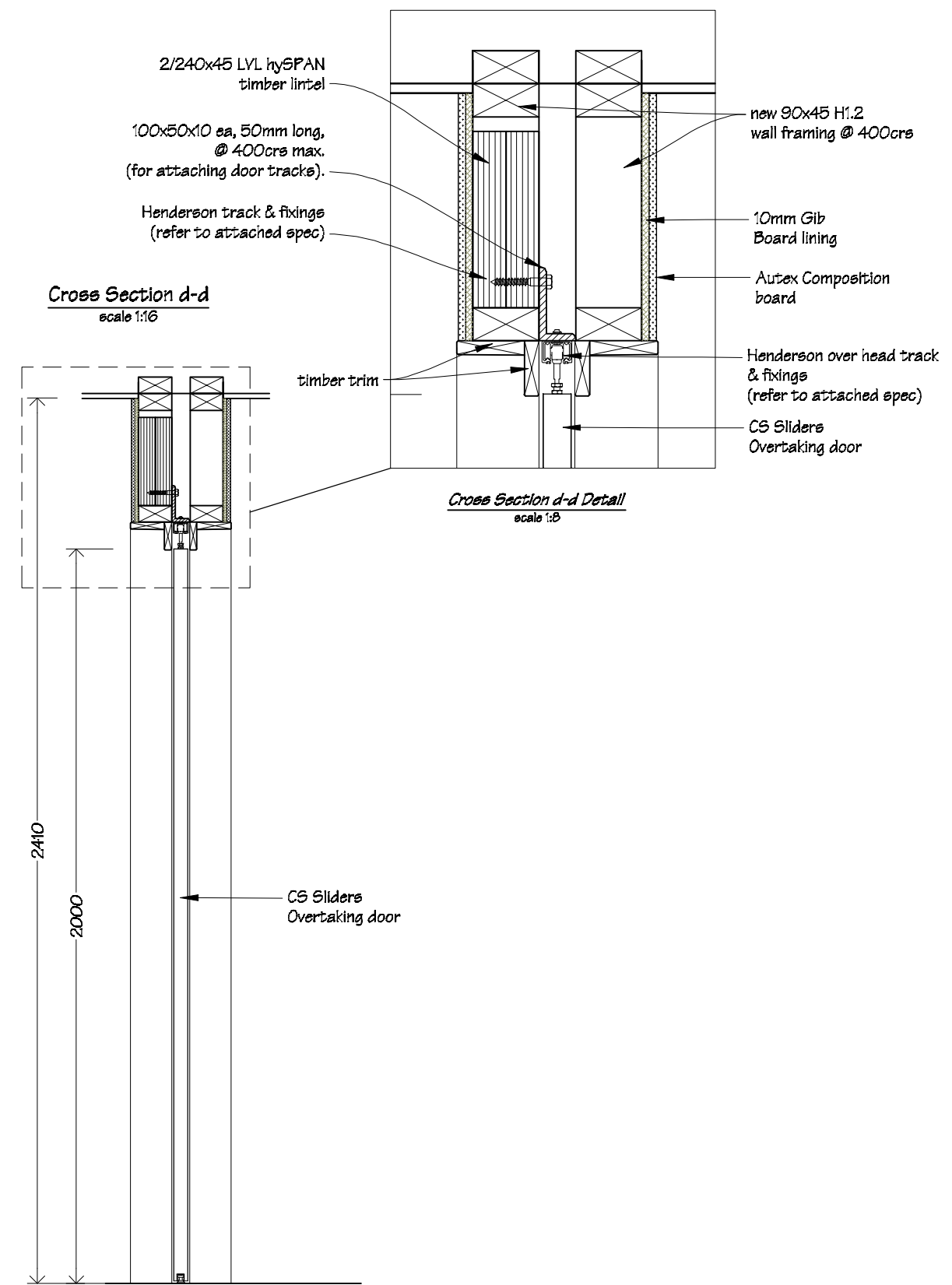
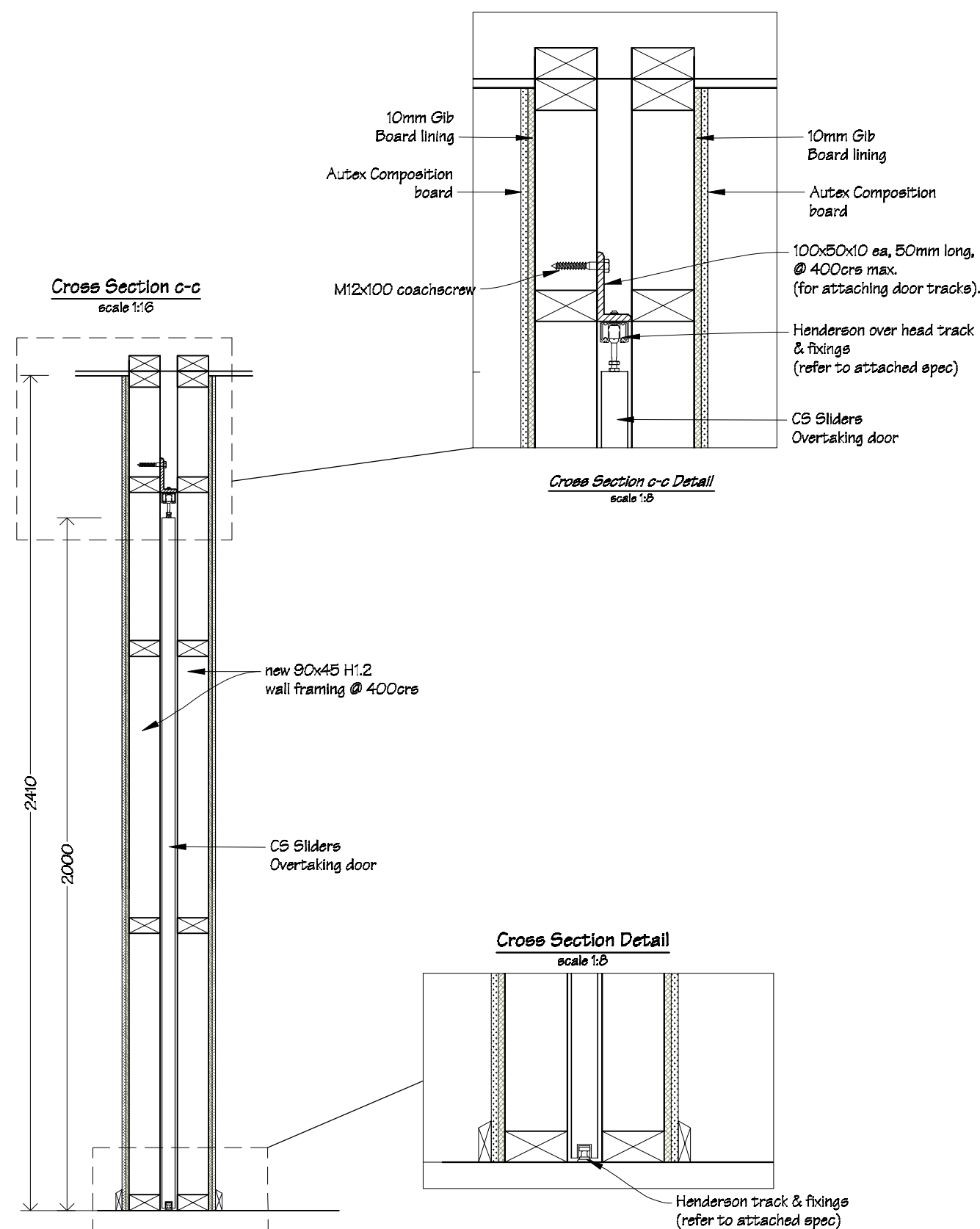


DOOR D1;
SLIDING DOOR CROSS SECTION & DETAILS

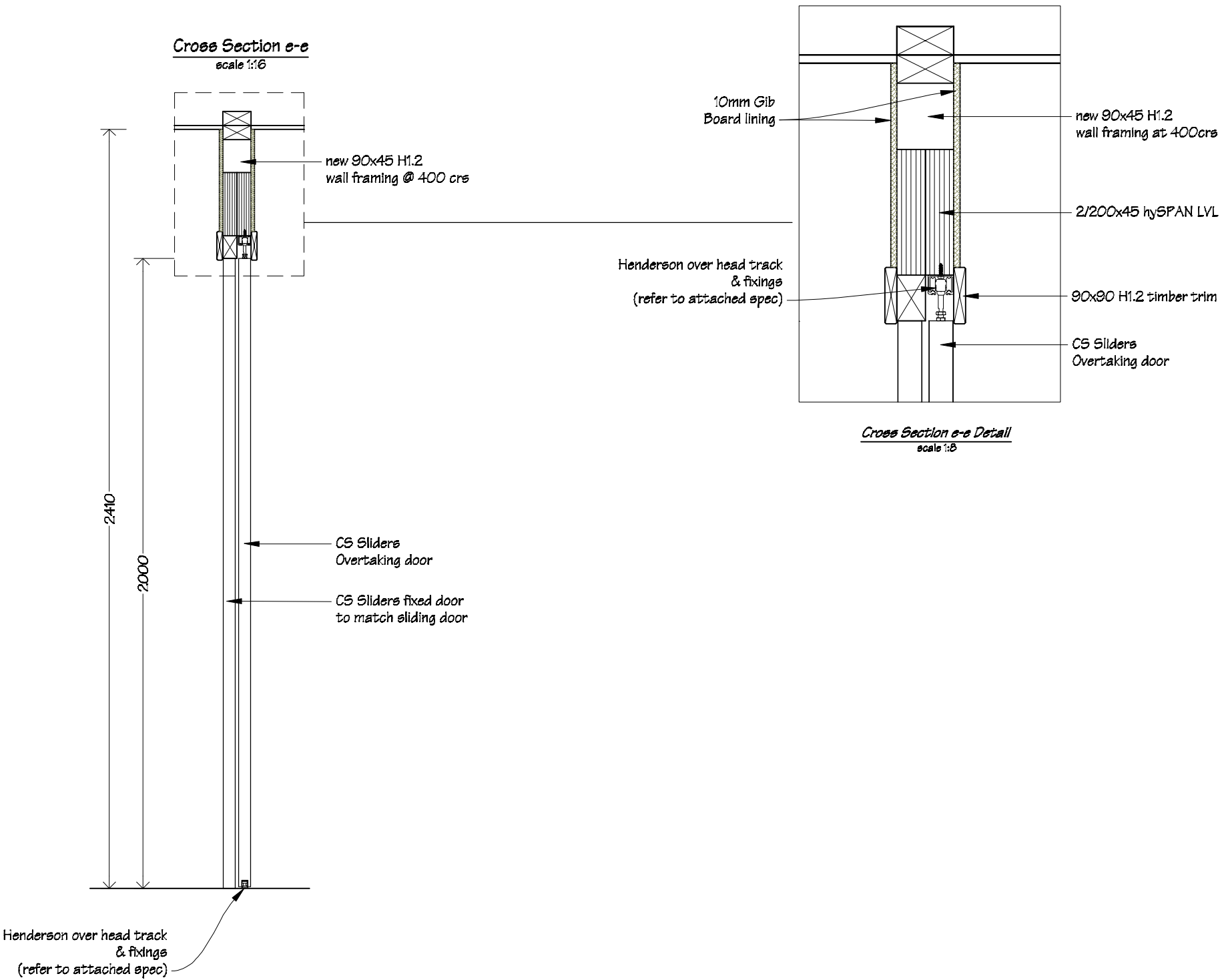



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						Date	16/01/17	
						Original sheet size	A3	
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						Sheet No	13 of 33	
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DOOR D2;
SLIDING DOOR CROSS SECTION & DETAILS

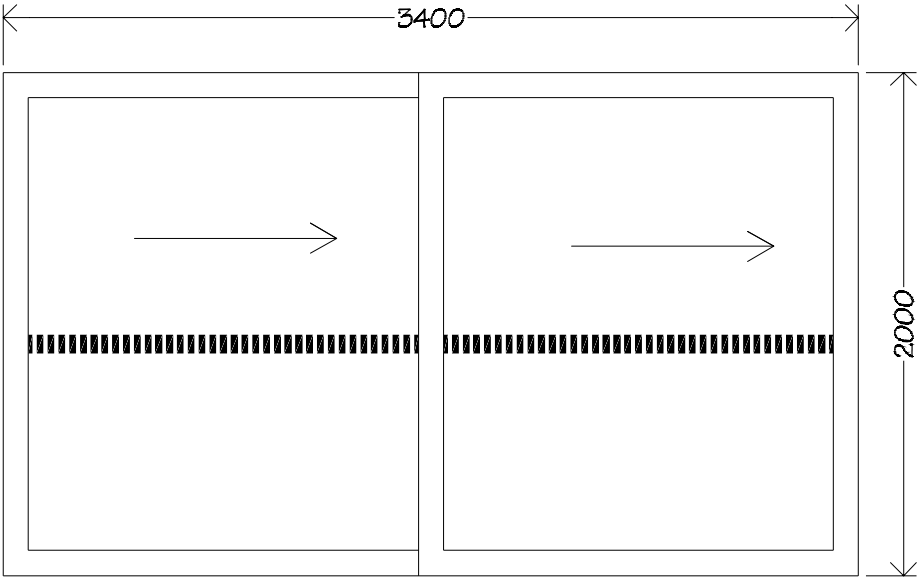


DOOR D3;
SLIDING DOOR CROSS SECTION & DETAILS



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	Mobile- Stephen 027-3355889					Original sheet size A3	
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	steve@irgroup.co.nz					Sheet No 15 of 33	
Web- www.irgroup.co.nz					Dwg Ref 15	<i>Do not scale from drawings. Check all dimensions on site.</i>	

D1
2 off



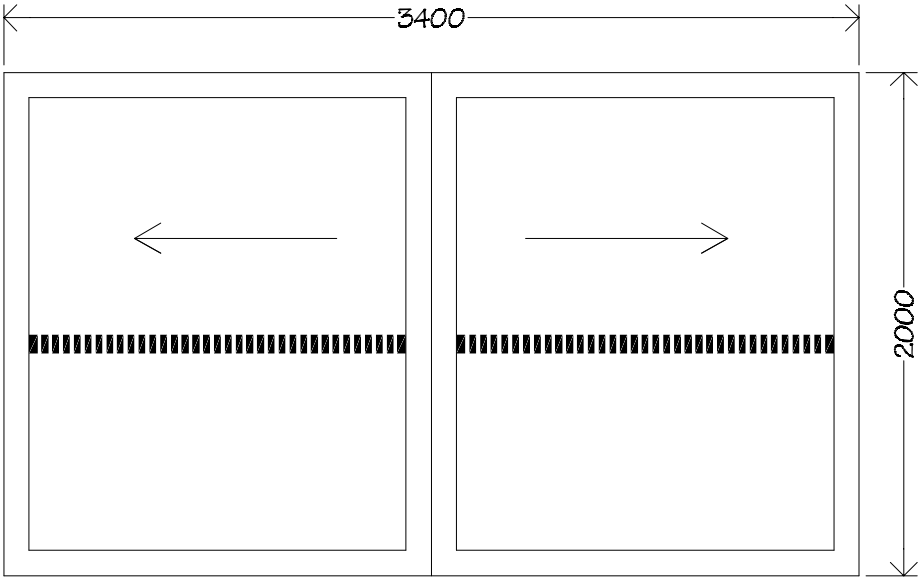
Elevation



Plan View

*Doors D1 to be CA Sliders OvertakingDoors glazed aluminium sliding doors.
Doors are to Henderson overhead carriage, mounting plate & track to suit.
Glazing to be clear 12mm laminated safety glass.
Dimensions shown are for door size, excluding track etc.
Allow to provide sound proof seals to sliding door unit.
Refer to floor plans for handing.*

D2
1 off



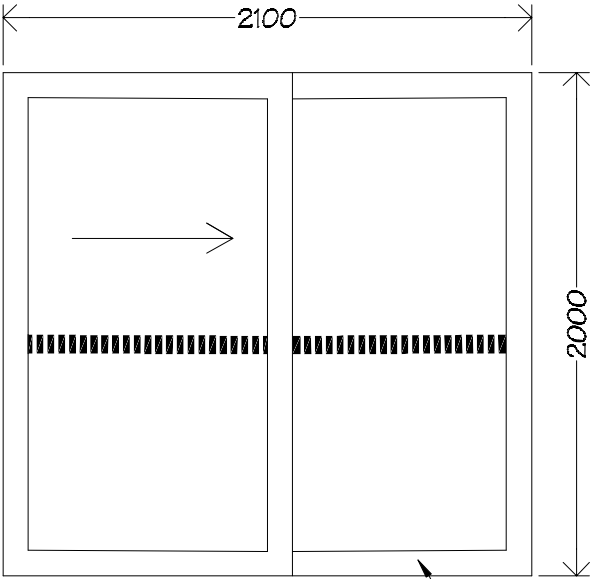
Elevation



Plan View

*Doors D2 to be CA Sliders OvertakingDoors glazed aluminium sliding doors.
Doors are to Henderson overhead carriage, mounting plate & track to suit.
Glazing to be clear 12mm laminated safety glass.
Dimensions shown are for door size, excluding track etc.
Allow to provide sound proof seals to sliding door unit.
Refer to floor plans for handing.*

D3
1 off

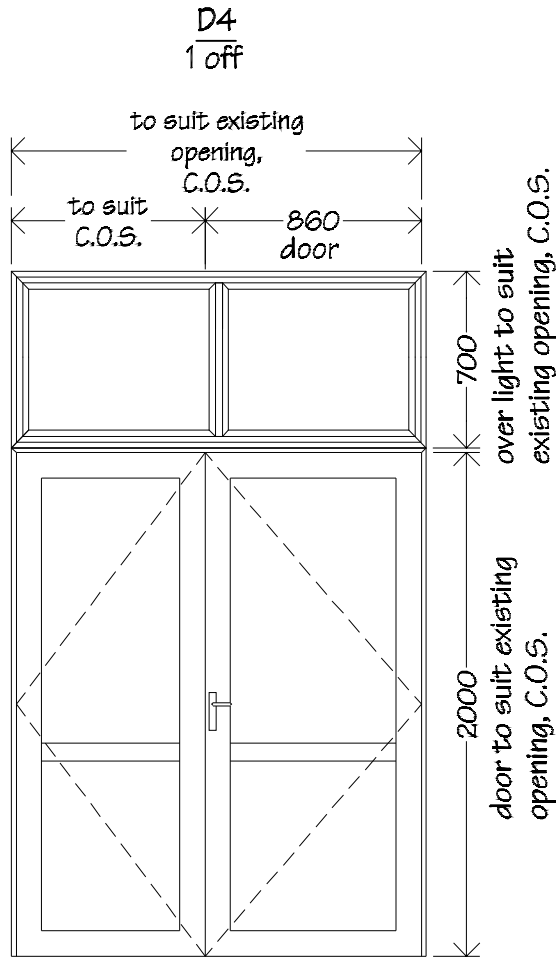


Elevation



Plan View

*Doors D3 to be CA Sliders OvertakingDoors glazed aluminium sliding doors, with one fixed panel.
Doors are to Henderson overhead carriage, mounting plate & track to suit.
Glazing to be clear 12mm laminated safety glass.
Dimensions shown are for door size, excluding track etc.
Allow to provide sound proof seals to sliding door unit.
Refer to floor plans for handing.*



Door D4 to be double glazed exterior aluminium Magnum door with opening side leaf, with fixed over light.

Door and frame to be powder coated aluminium.

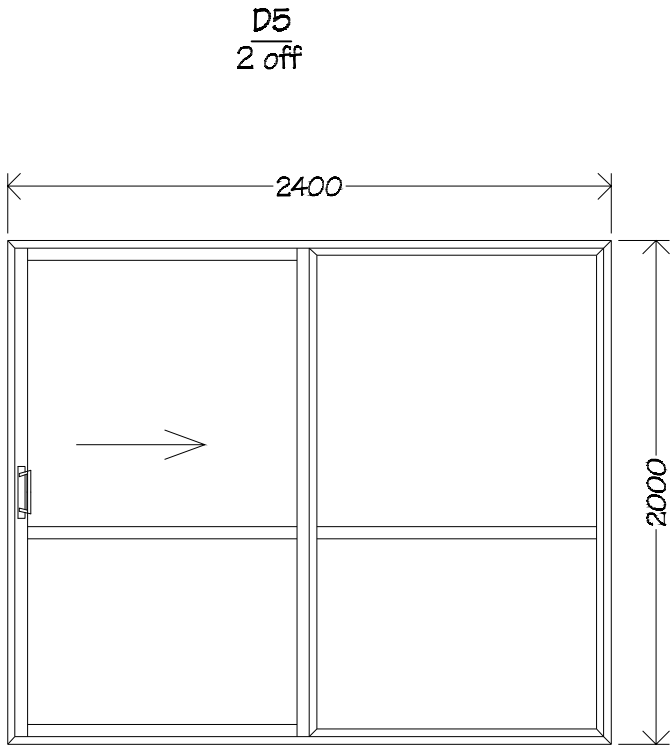
Glazing to be clear double glazed Grade A safety glass.

Refer to specification for door hardware.

Refer to floor plans for handing and overall size. Check dimensions on site.

Door detail to match existing doors in Block 1 classrooms.

Over all dimensions to suit existing openings, check all dimension on site prior to fabrication.



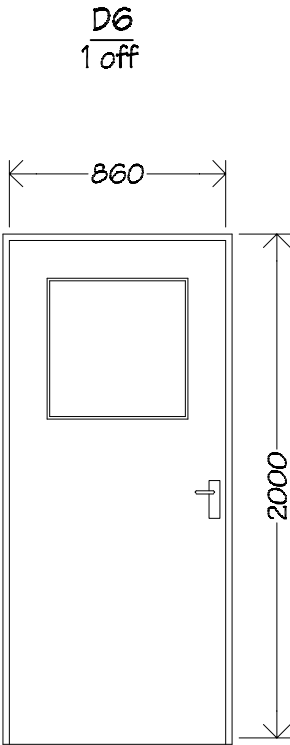
Doors D5 to be double glazed exterior Nulook Sovereign Series sliding aluminium doors.

Door and frame to be powder coated aluminium.

Glazing to be clear double glazed Grade A safety glass.

Refer to specification for door hardware.

Refer to floor plans for handing and overall size. Check dimensions on site.

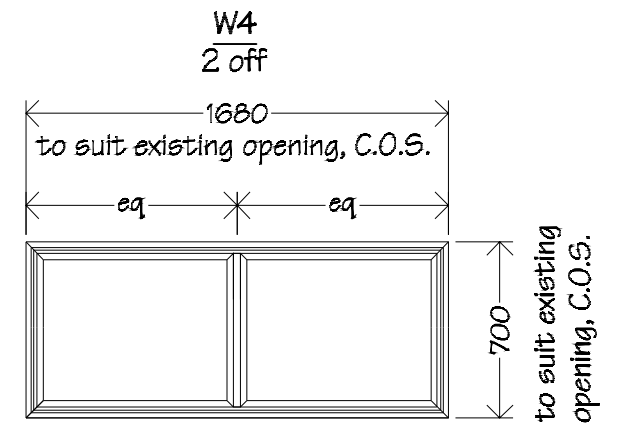
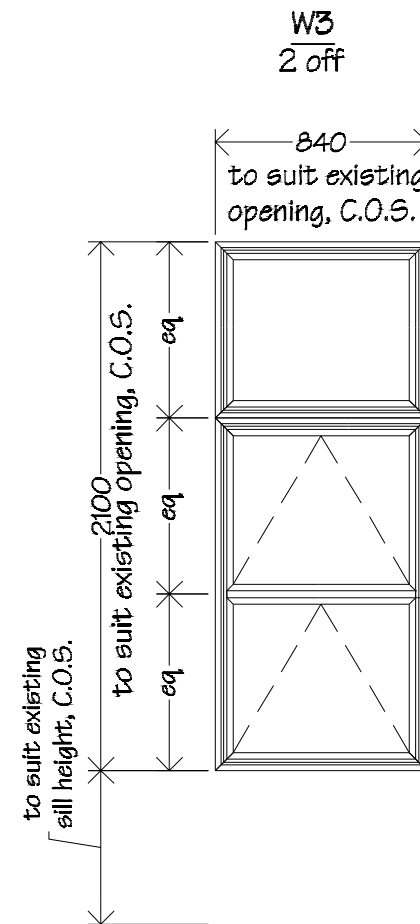
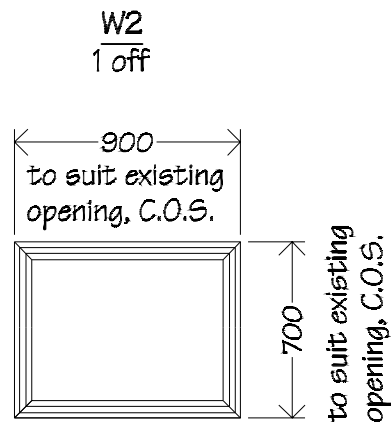
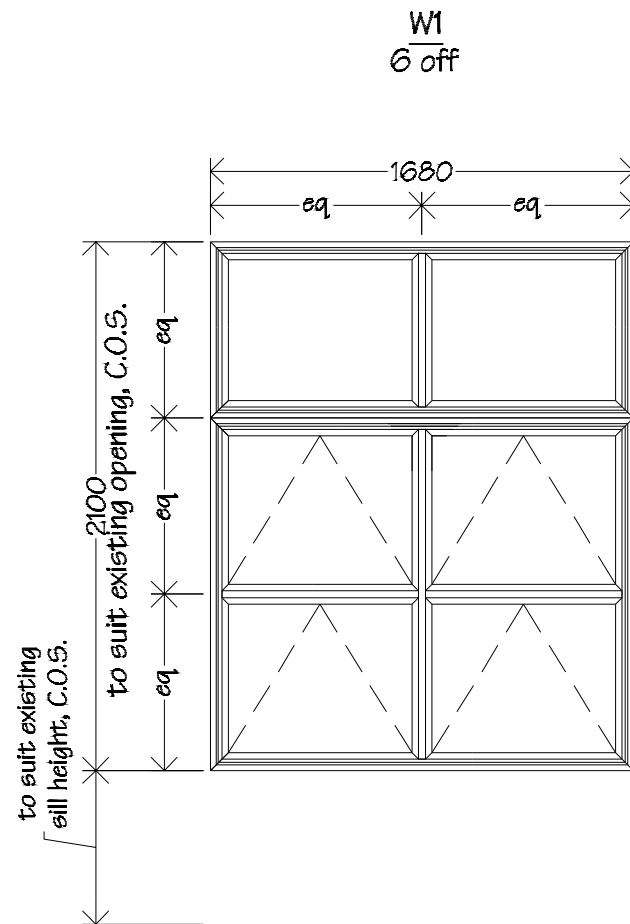


Door D6 to be paint quality, solid core interior door in timber frame.

Glazing to be clear single glazed Grade A safety glass.

For furniture, hook & lock see spec.

Refer to floor plan for handing.




Windows W1, W2, W3 & W4 to be p.c. Nulook 35mm Sovereign Series aluminium double glazed insert windows.

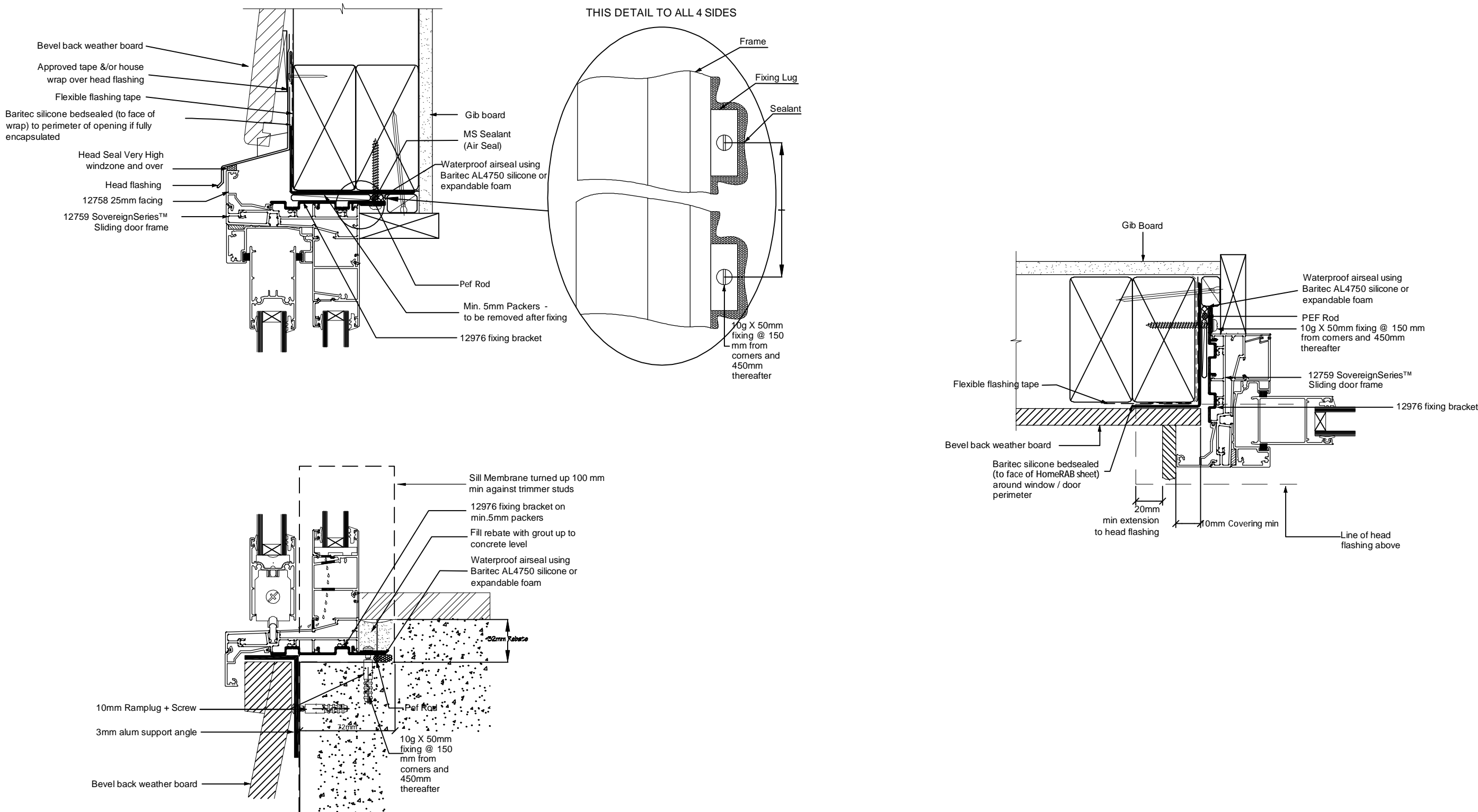
Awning sashes to be fixed with 2 Interlok restrictor stays and 2 Interlok Avon non-locking fasteners per sash.

All glazing to be clear Grade A safety glass, double glazed.


Windows sizes are to suit existing openings, check all dimensions on site prior to fabrication.

 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Window Schedule	<table><tr><th colspan="3">REVISIONS</th></tr><tr><th>No</th><th>Date</th><th>Description</th></tr><tr><td> </td><td> </td><td> </td></tr></table>	REVISIONS			No	Date	Description				Scale 1:50	Preliminary Drawings
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	Mobile- Ian 021-427.347					Date 16/01/17										
	Mobile- Stephen 027-3355889					Original sheet size A3										
Email- ian@irgroup.co.nz	Drawn S.T.															
steve@irgroup.co.nz	Sheet No 18 of 33															
Web- www.irgroup.co.nz	Dwg Ref 18															

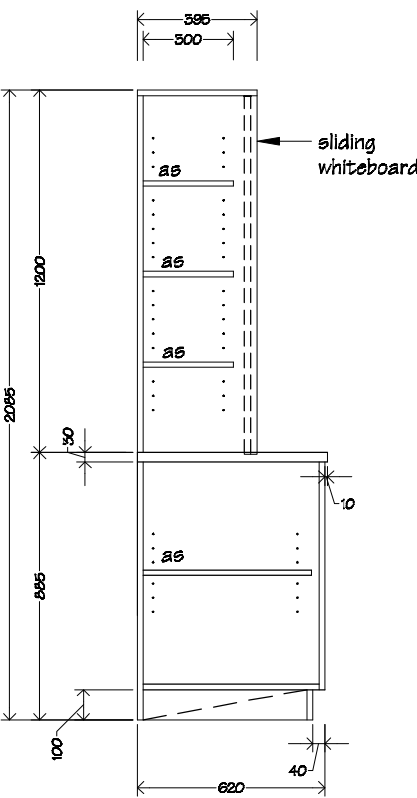
Nulook Sovereign Series Exterior
Sliding Door Flashing Details



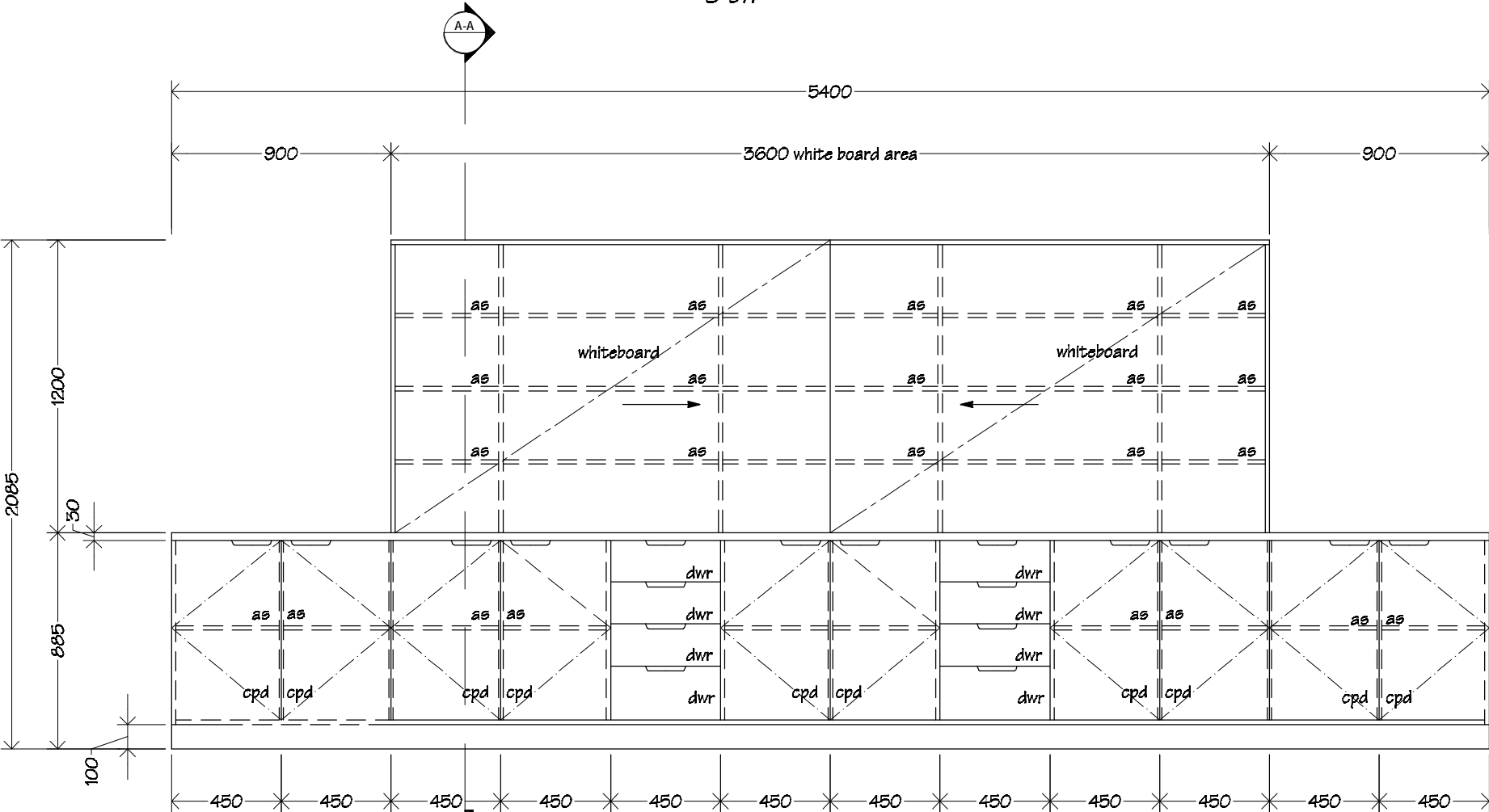
NOTE : Heavier doors may require additional support to outside of frame or a different frame design. Please contact NALCO Technical Team for options

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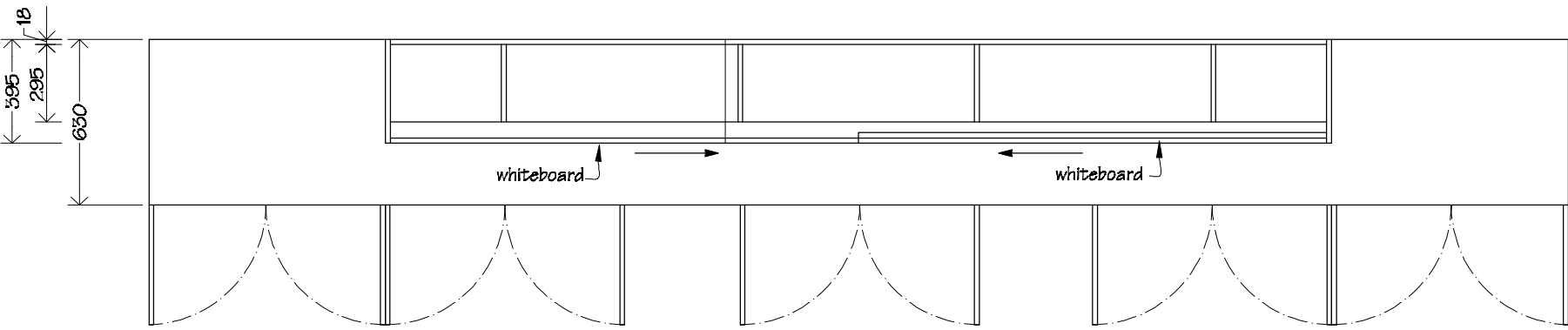
Teacher's White Board Storage Unit,
U1
3 off



Cross Section A-A



KEY	
dwr	drawer
cpd	cupboard
as	adjustable shelf




NOTES:
Whiteboards to be Boyd Visuals cabinet slider;
2x sliding whiteboards with TT180 headguide
channel & TT182 and TT183 base track.

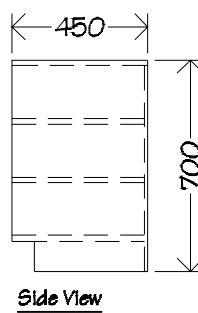
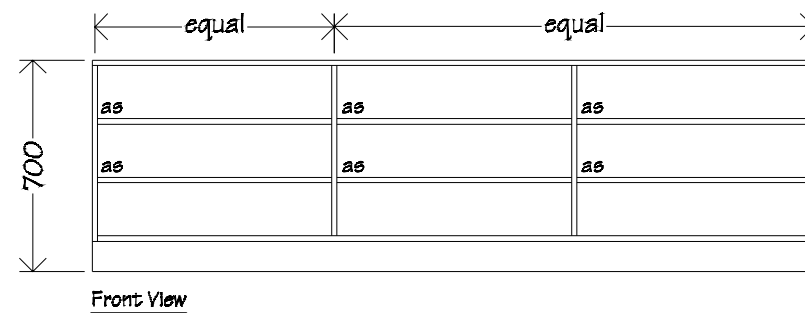
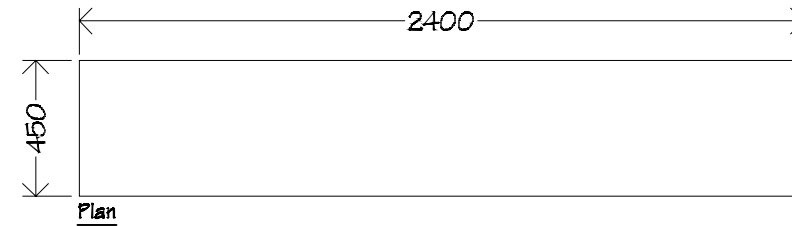
Unit carcass, shelving & doors to be 18mm
double sided Melteca with 3mm PVC edging,
back to be 12mm single sided Melteca, top to
be 30mm single sided Melteca.

Doors to be fitted with one pair of concealed
"Grass", or similar, self closing hinges.

Joinery colours to be advised.

 IR Group Ltd Design - Project Management - Planning	Phone- Office 04 526-7711 Mobile- Ian 021-427.347 Mobile- Stephen 027-3355889 Email- ian@irgroup.co.nz steve@irgroup.co.nz Web- www.irgroup.co.nz	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Teacher's Whiteboard/storage Unit Details	REVISIONS No Date Description	Scale	1:25	Preliminary Drawings Do not scale from drawings. Check all dimensions on site.
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						Drawn	S. T.	
						Sheet No	20 of 33	
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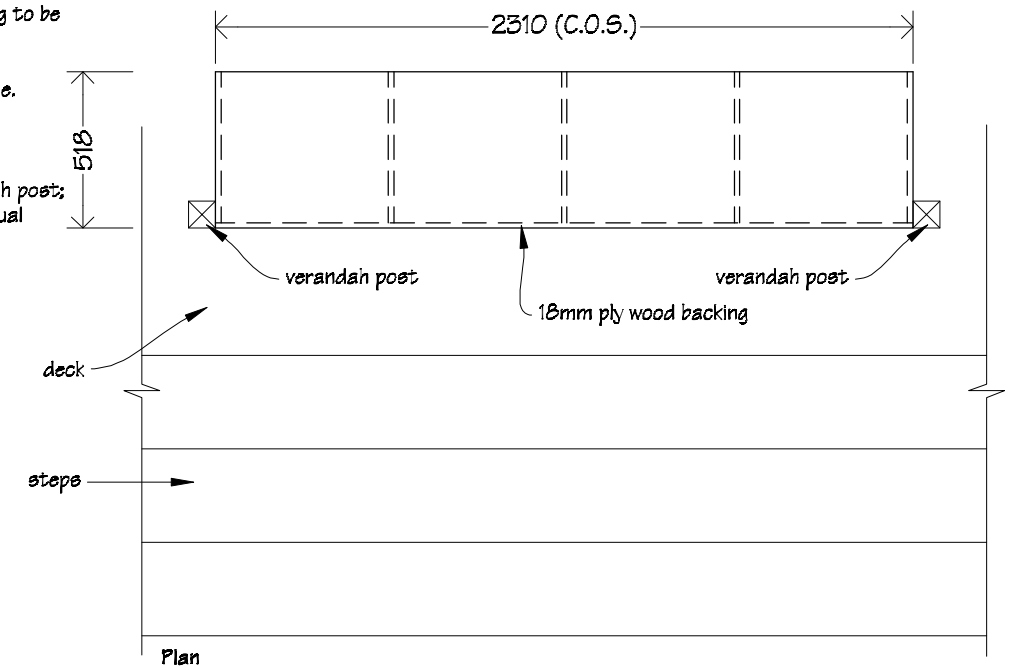
Shelving Unit
UB
1 off



KEY
as adjustable shelf

NOTES:
Shelving units, (U8, U9 & U10), carcass & shelving to be 18mm double sided Melteca with 3mm PVC edging, back to be 12mm single sided Melteca.

Cubby Hole Units
5 off



KEY

fs fixed shelf

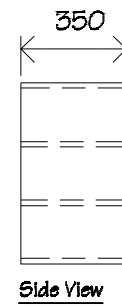
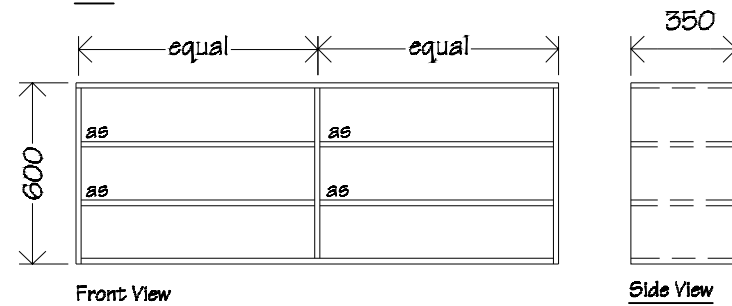
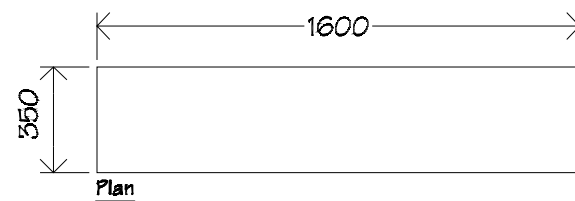
NOTES:
Cubby hole unit carcass, shelving & backing to be 18mm H3.2 tanalised ply wood.

Units to be finished with clear polyurethane.

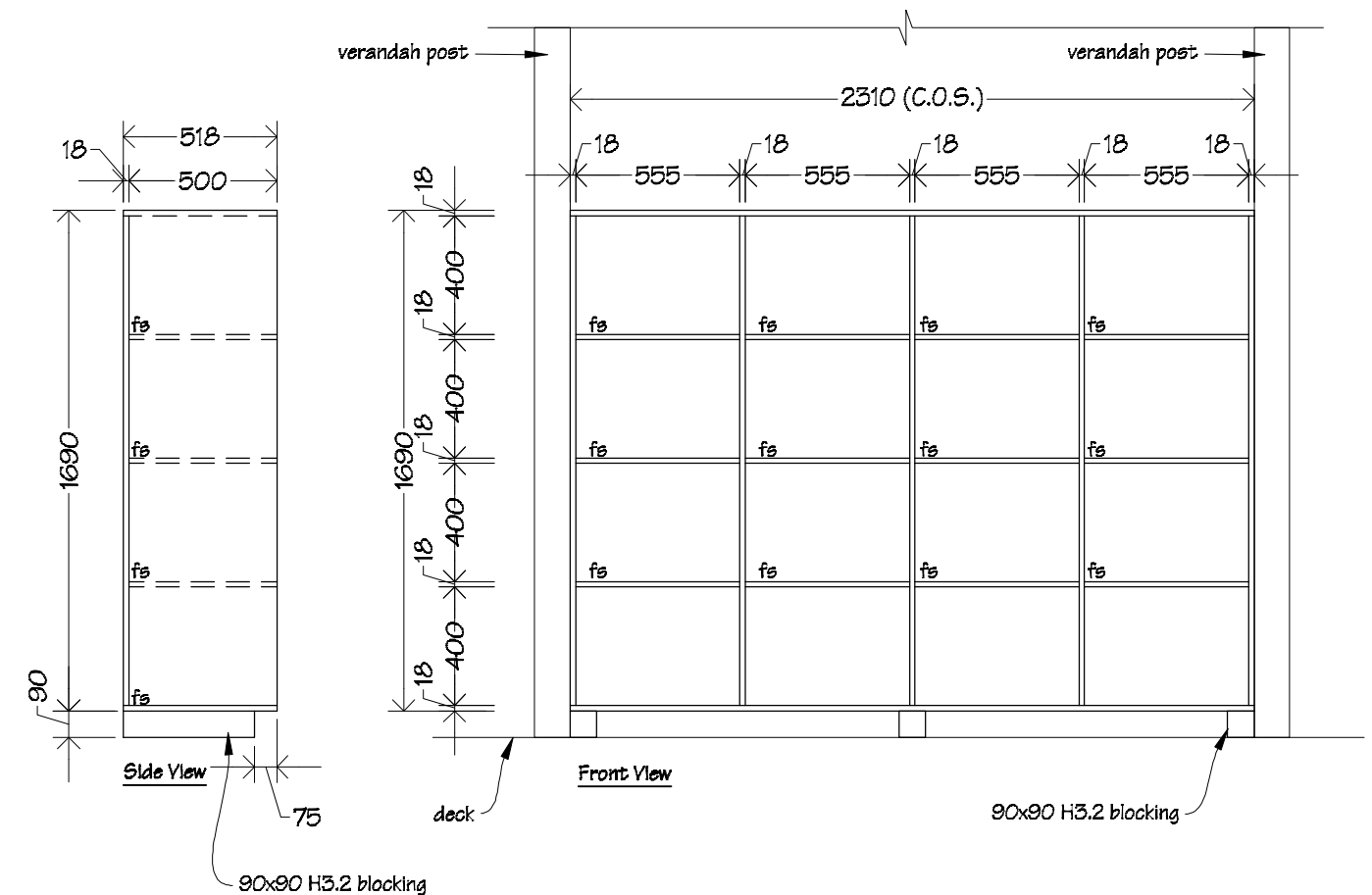
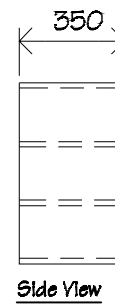
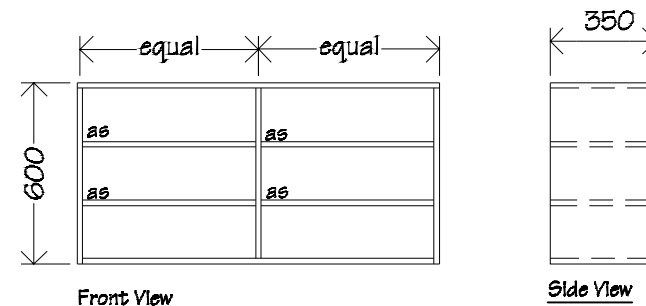
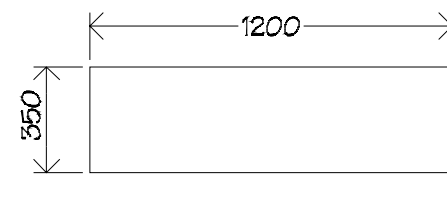
All shelving to be fixed.

Cubby hole unit are to fit between verandah posts; refer to floor plan for locations; check actual dimensions on site.

Shelving Unit
U9
2 off



Shelving Unit
U10
2 off



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	steve@irgroup.co.nz	
Web-	www.irgroup.co.nz	

Wainuioru School
Cnr Westmere & Stronvar Roads
RD 10
Masterton

PROJECT	Block 1 Classroom Upgrade
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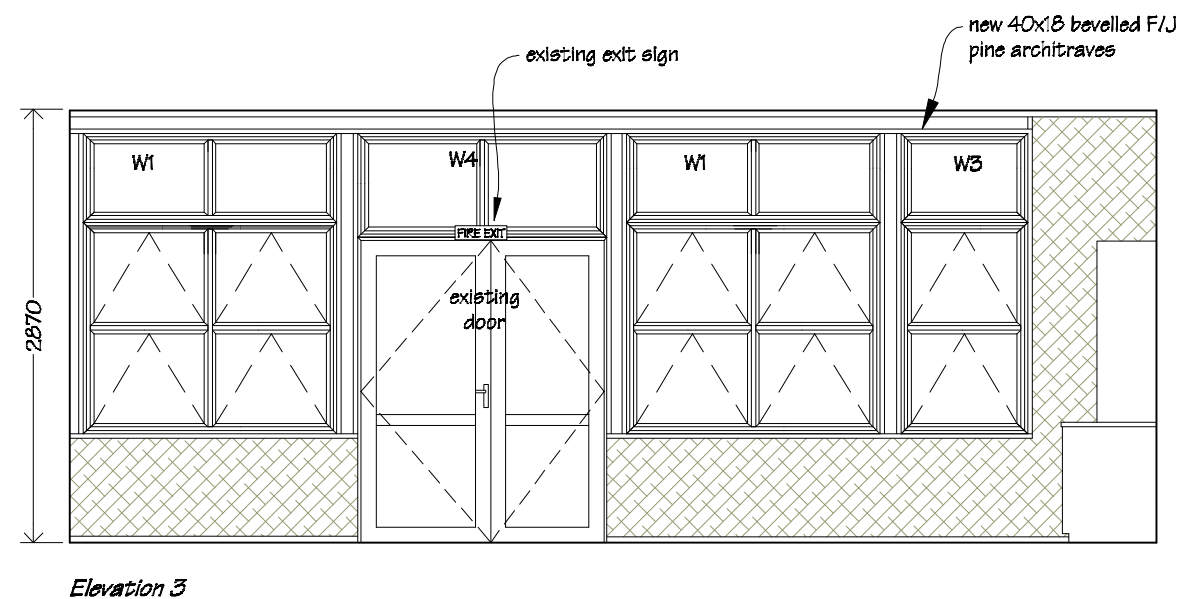
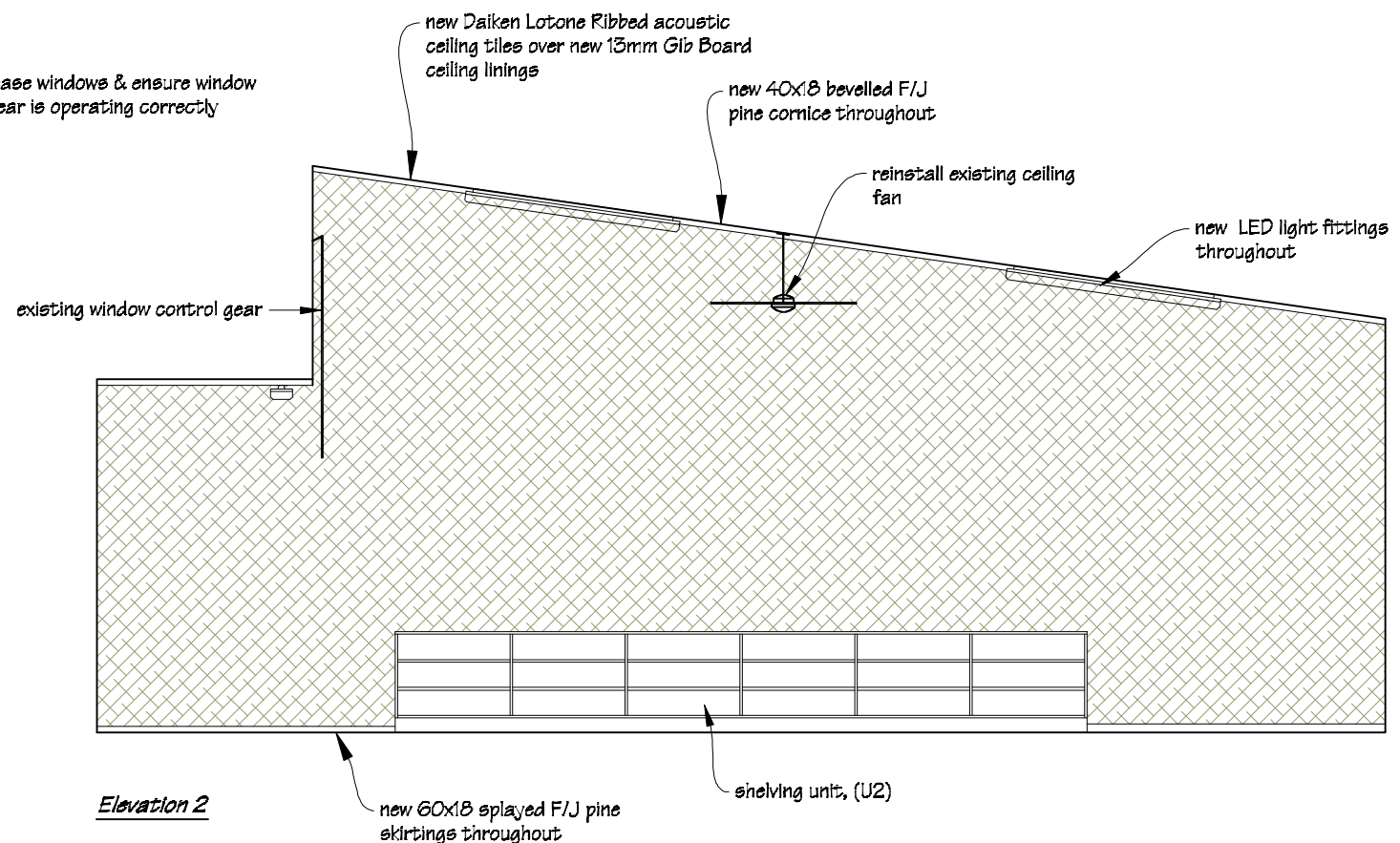
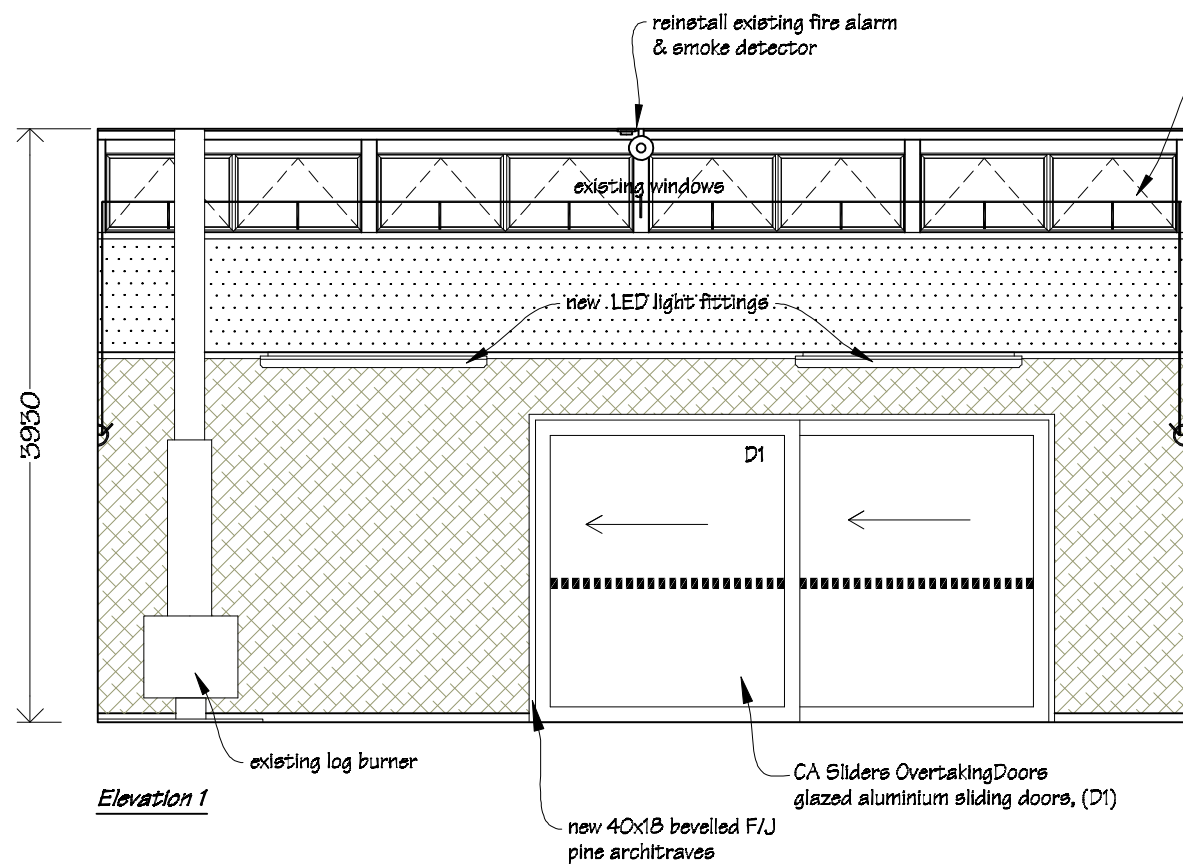
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Joinery Units 8, 9 & 10 Details

REVISIONS		
No	Date	Description

Scale	1:25
Date	16/10/17
Original sheet size	A3
Drawn	S. T.
Sheet No	23 of 33
Dwg Ref	23

Preliminary Drawings

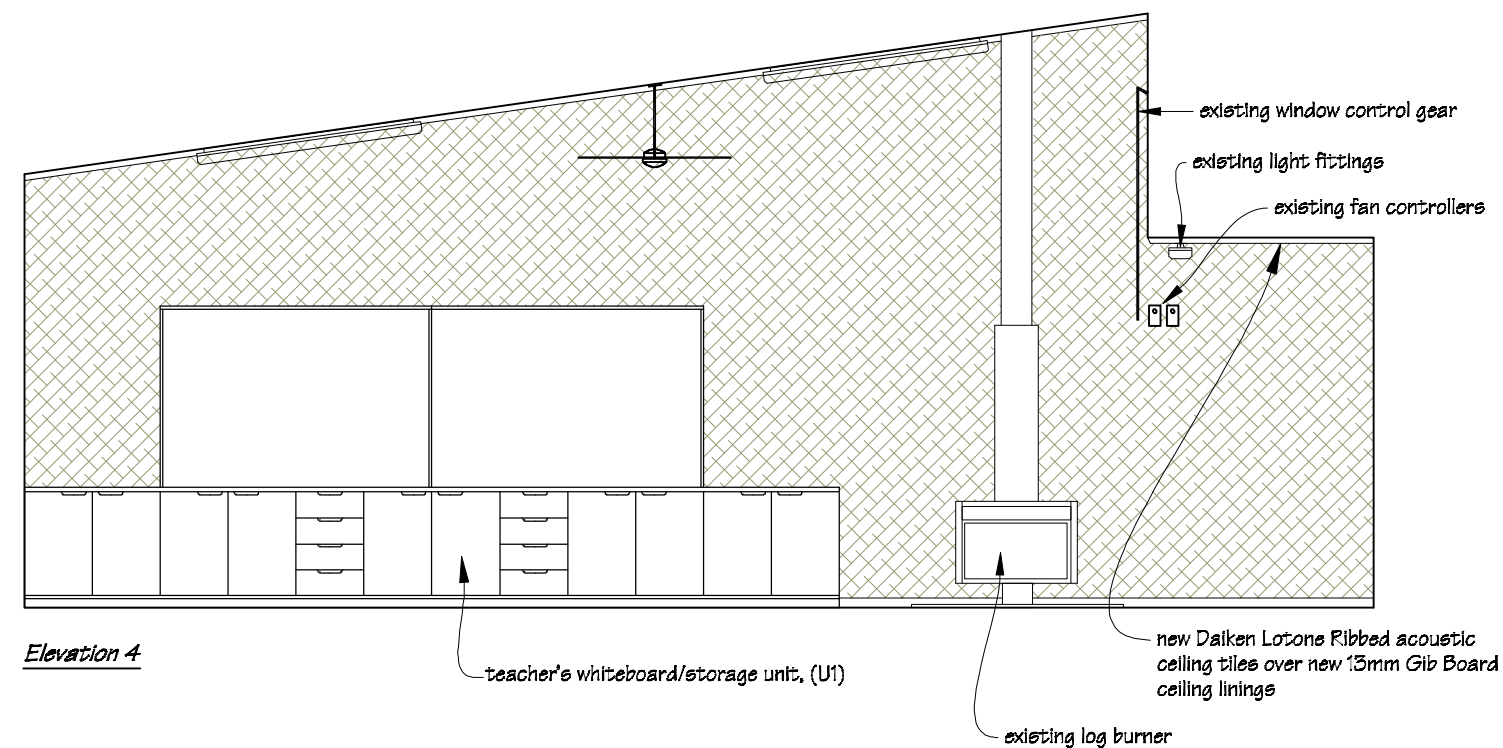
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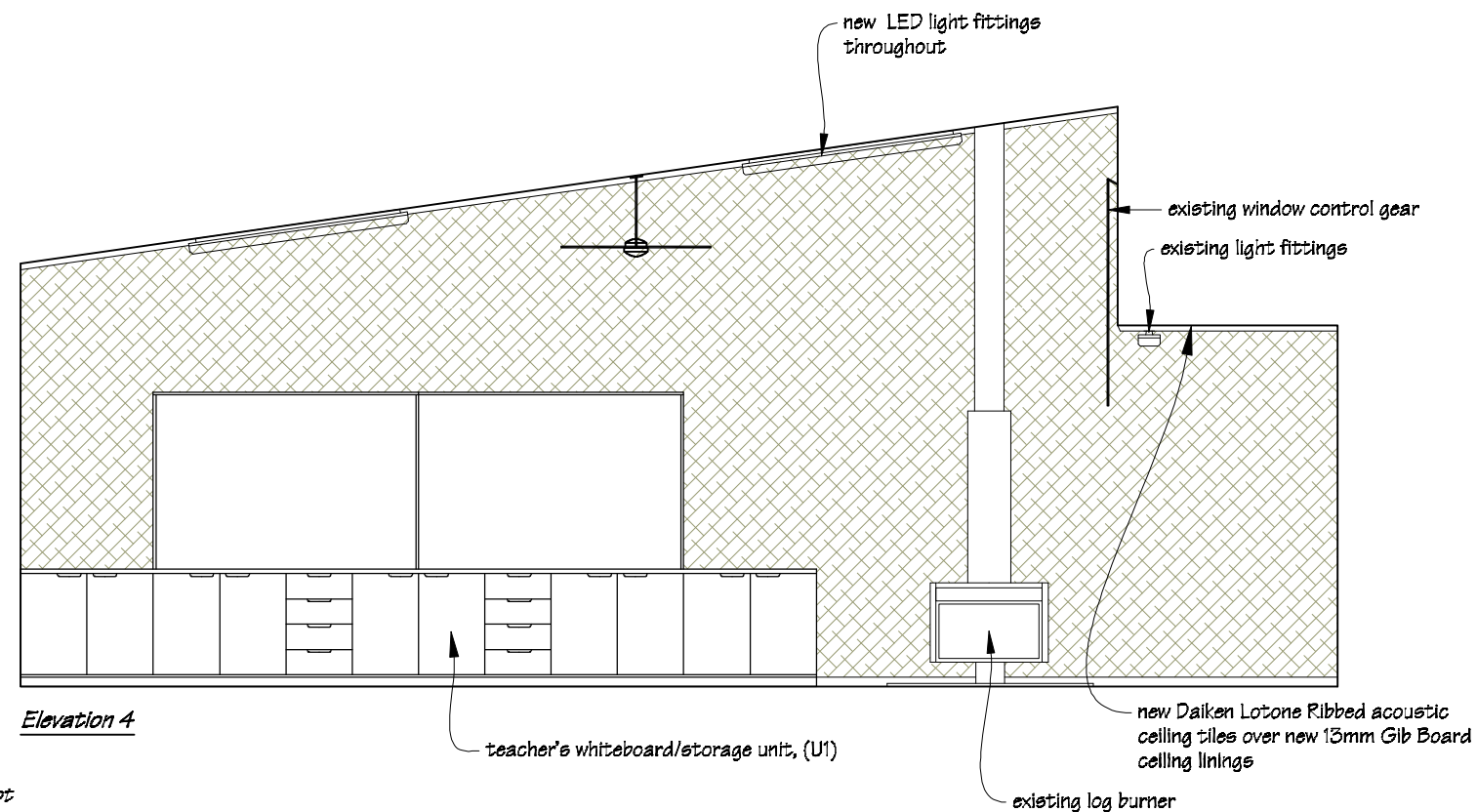
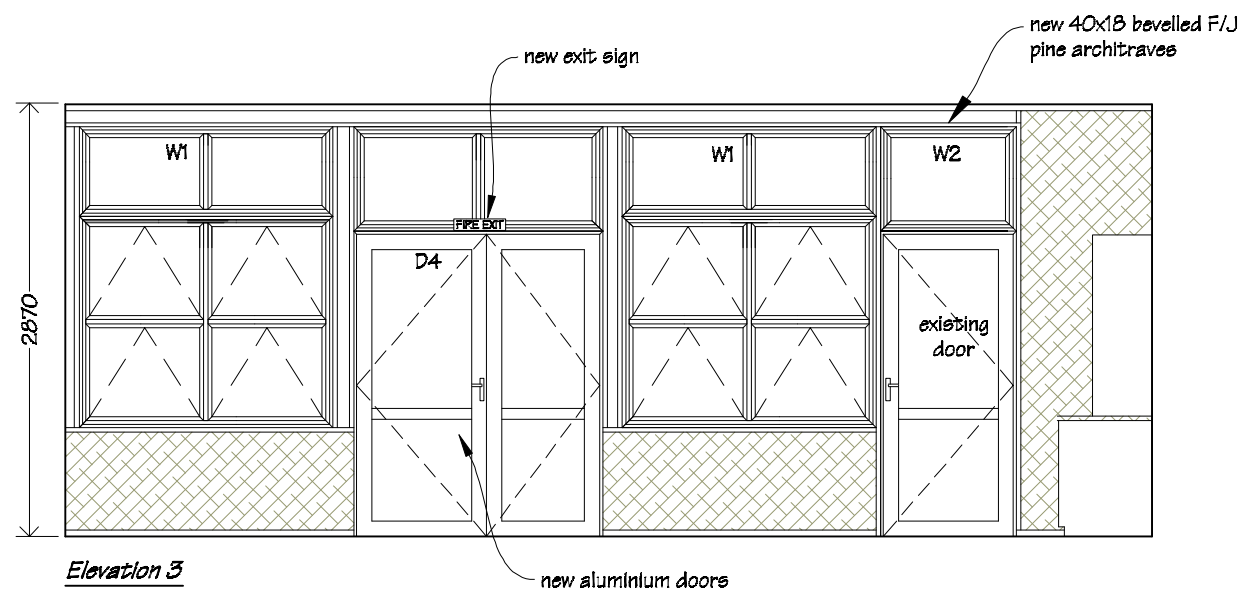
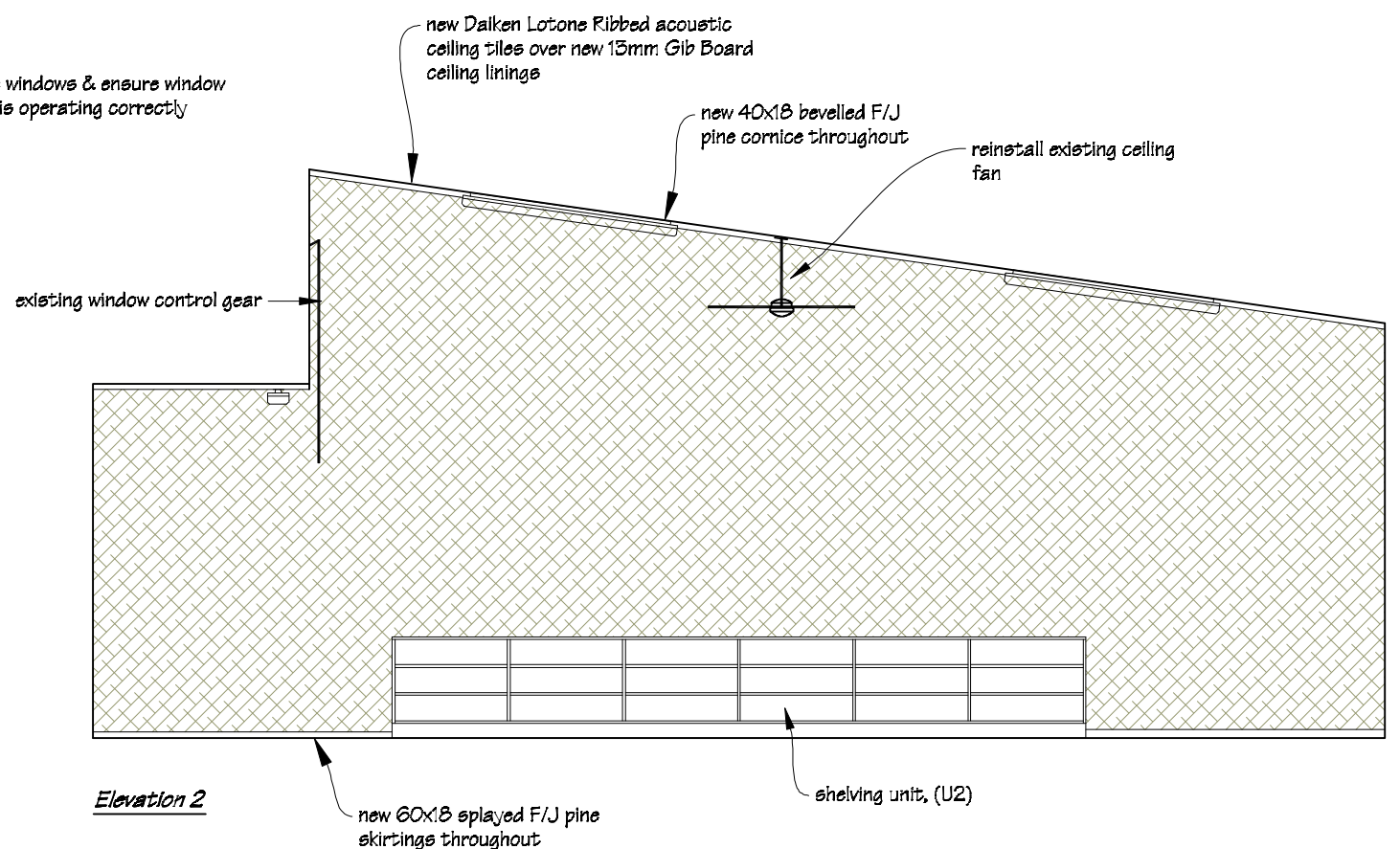
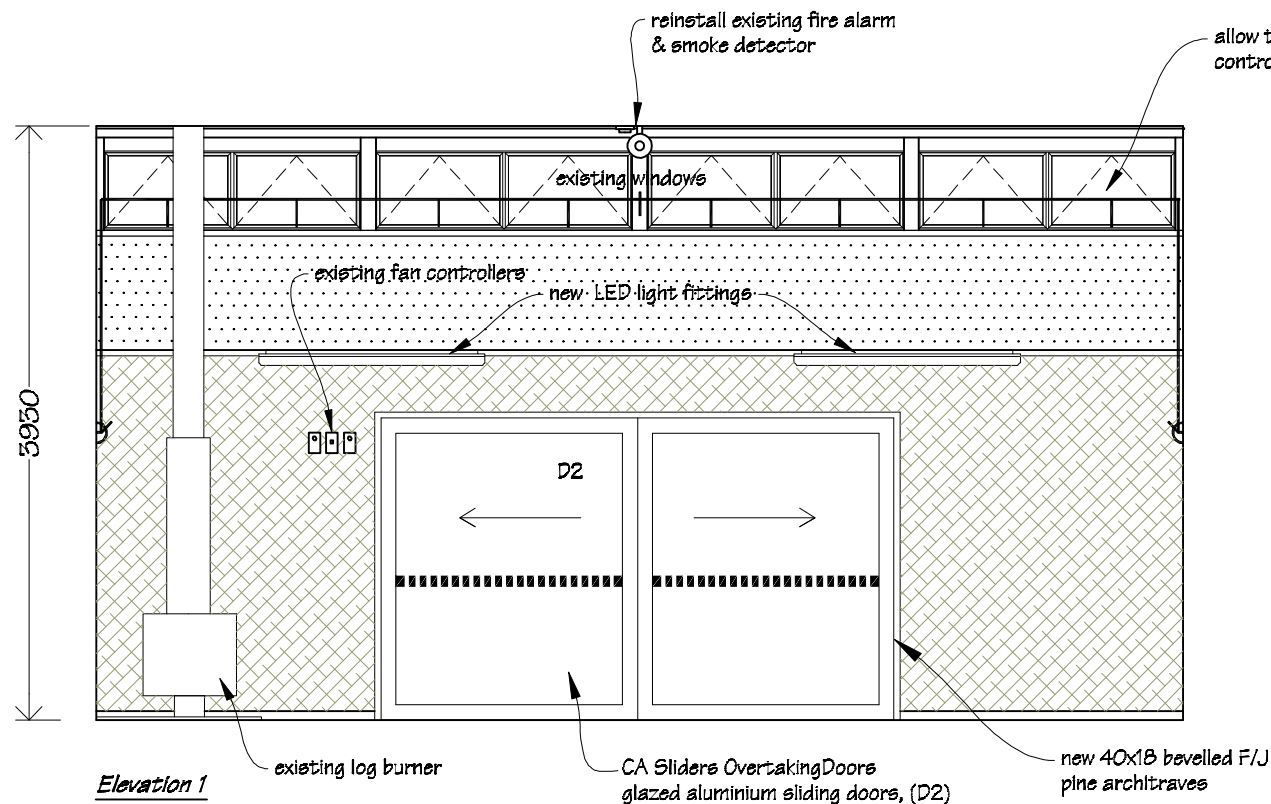
Wall Coverings Legend



PAINTING:
 Allow to paint wall areas not covered on Autex Composition board, timber window & doors frames & sills, architraves, cornice, skirtings and all new & existing miscellaneous timber trim.




 <p>IR Group Ltd</p>	<p>Phone- Office 04 526-7711 Mobile- Ian 021-427.347 Mobile- Stephen 027-3355889 Email- ian@irgroup.co.nz steve@irgroup.co.nz Web- www.irgroup.co.nz</p>	<p>Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton</p>	<p>PROJECT Block 1 Classroom Upgrade</p>	<p>DRAWING TITLE Teaching Space 1 Interior Elevations</p>	<p>REVISIONS No Date Description</p>	<p>Scale 1:50 Date 16/01/17 Original sheet size A3 Drawn S.T. Sheet No 24 of 33 Dwg Ref 24</p>	<p>Preliminary Drawings Do not scale from drawings. Check all dimensions on site.</p>
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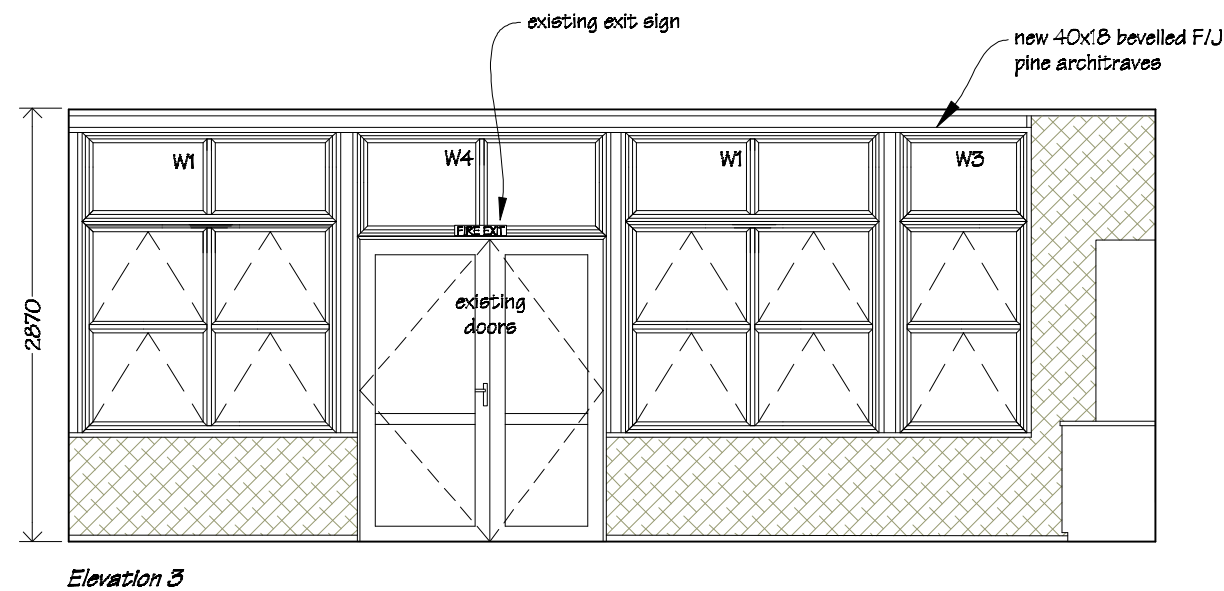
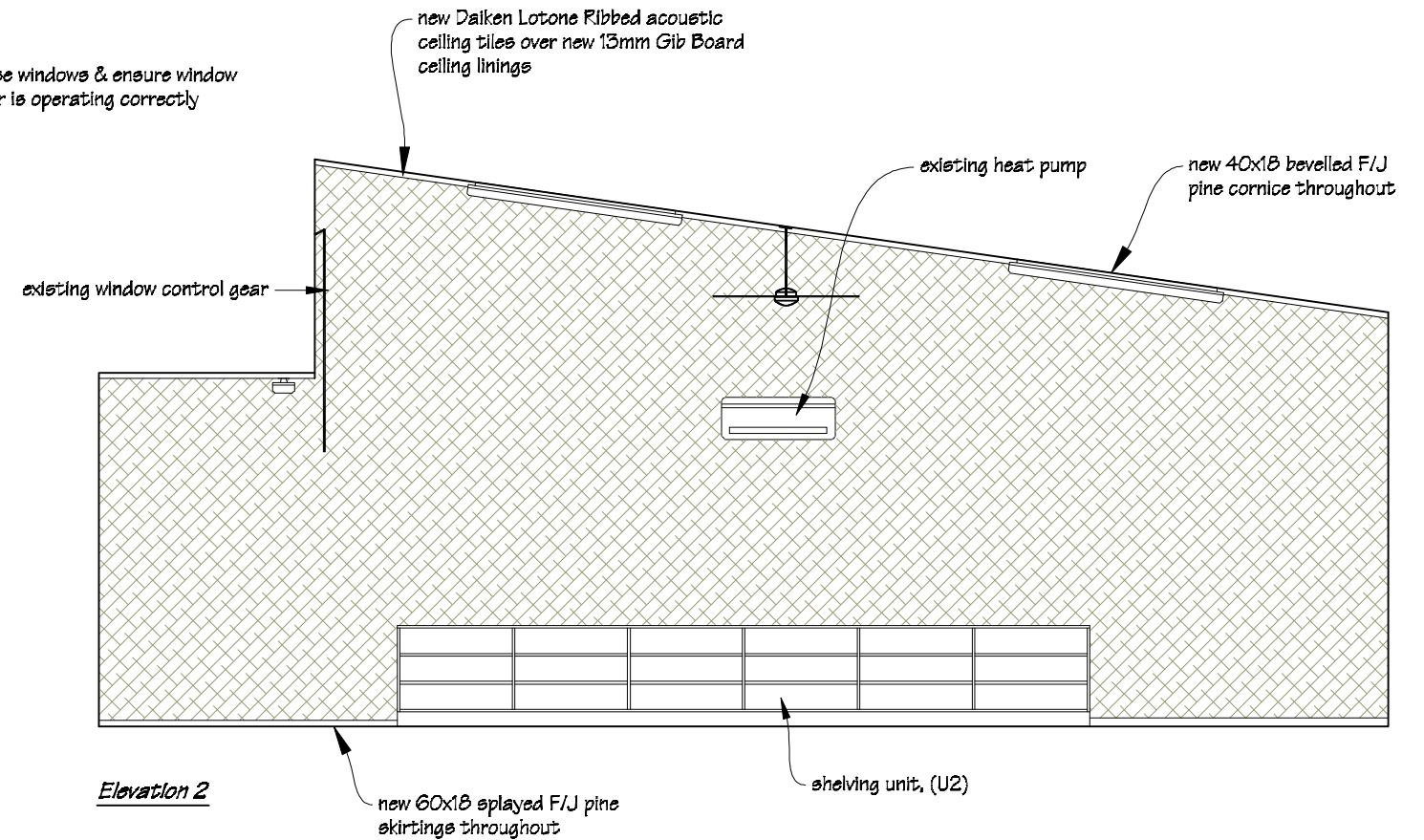
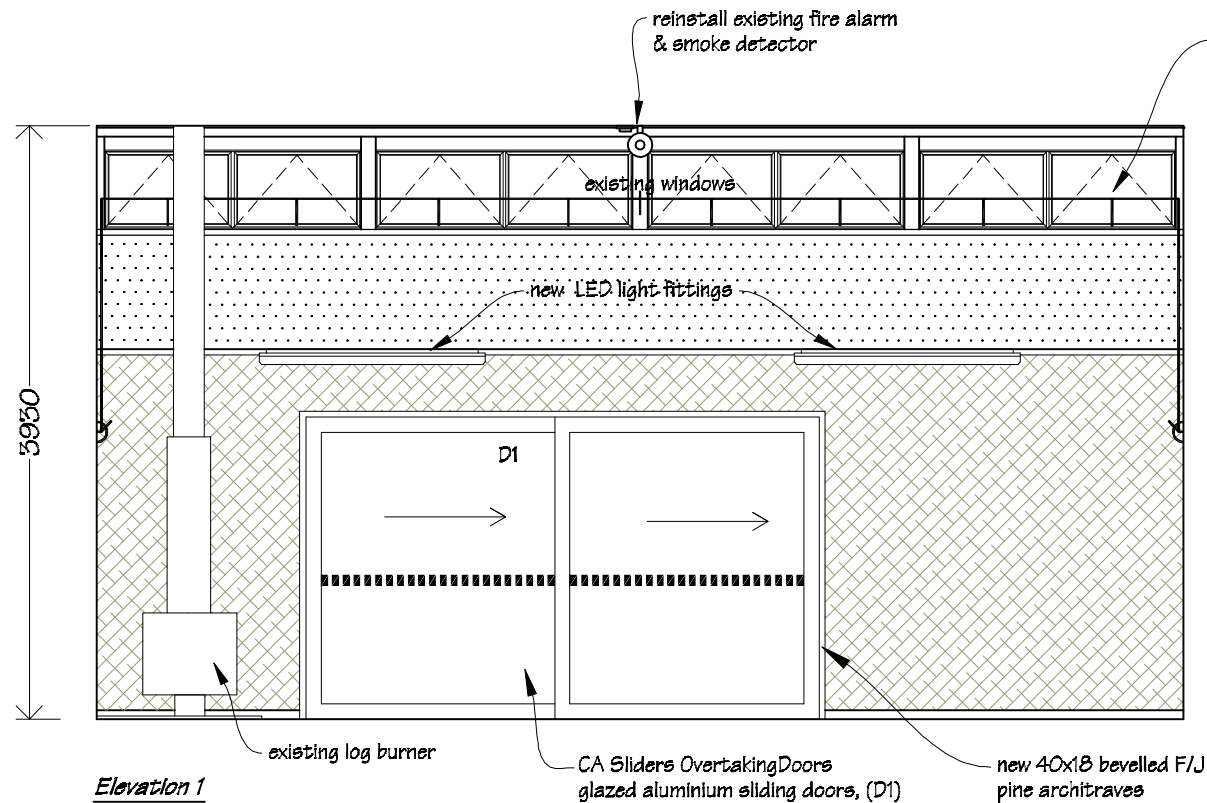


Wall Coverings Legend



PAINTING:
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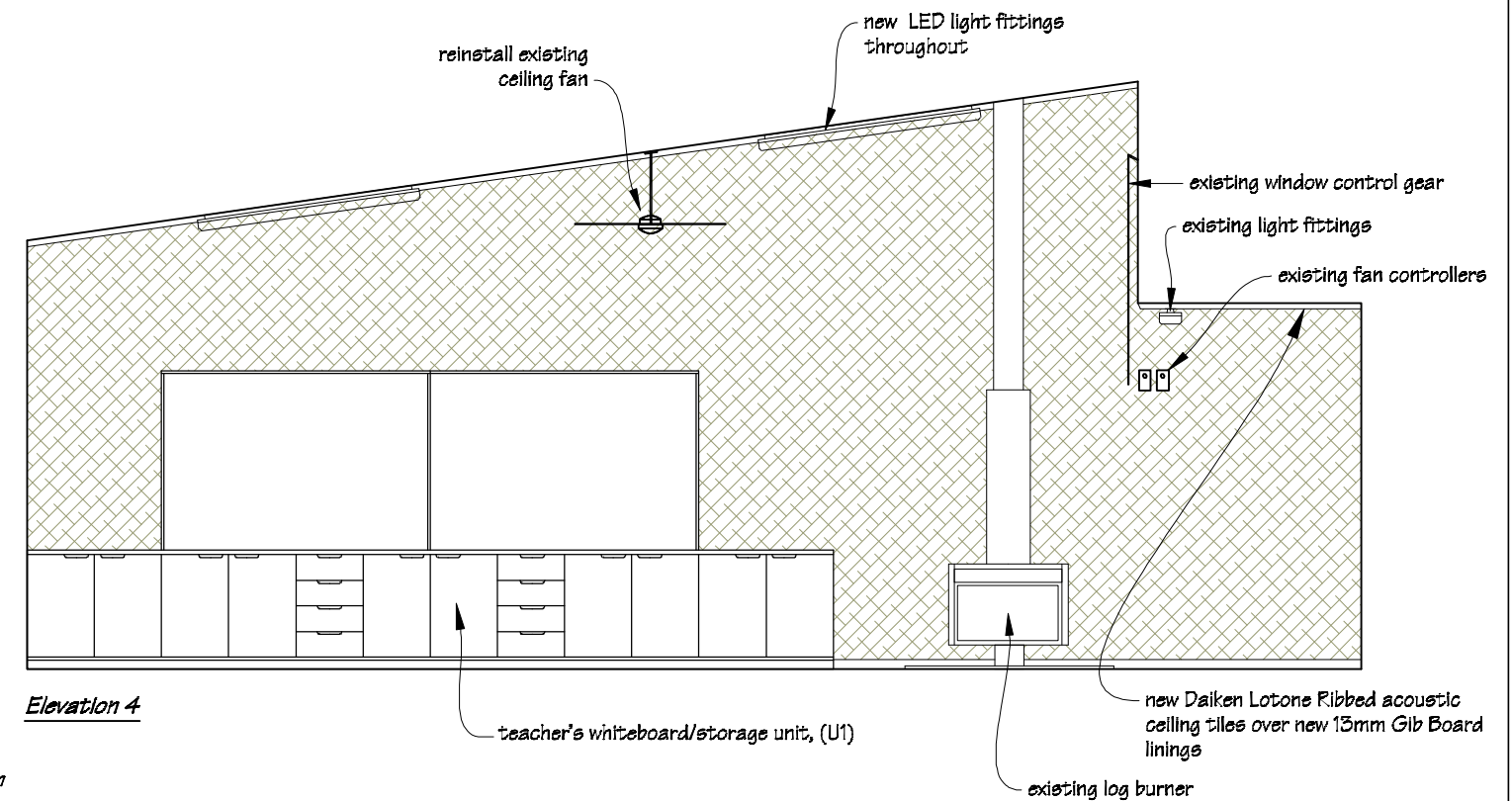
 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Teaching Space 2 Interior Elevations	REVISIONS <i>No Date Description</i>	Scale 1:50	Preliminary Drawings
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	Mobile- Stephen 027-3355889					Original sheet size A3	
	Email- ian@irgroup.co.nz					Drawn S. T.	
	Email- steve@irgroup.co.nz					Sheet No 25 of 33	
Web- www.irgroup.co.nz	Dwg Ref 25	Do not scale from drawings. Check all dimensions on site.					




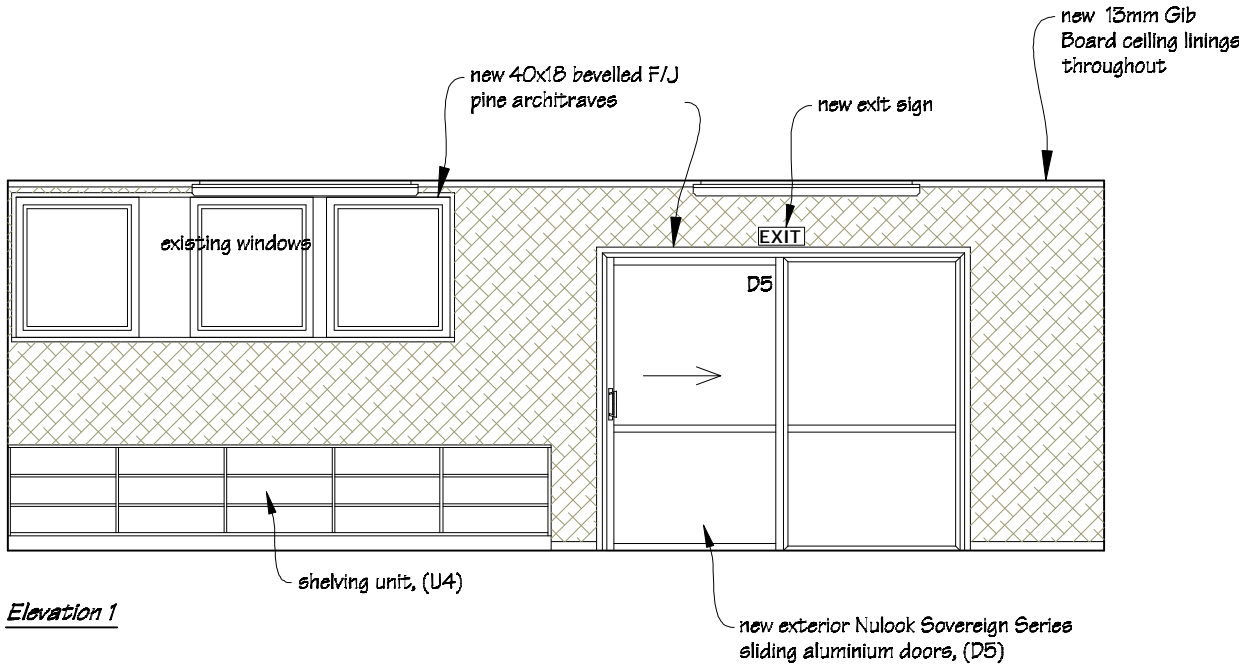
Wall Coverings Legend



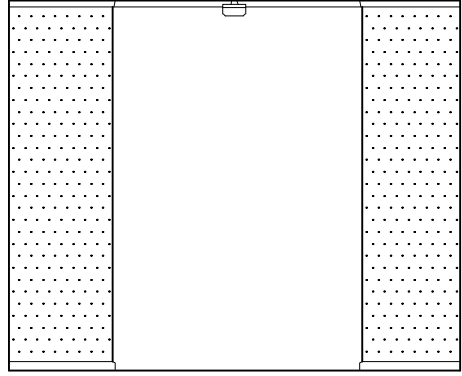
PAINTING:
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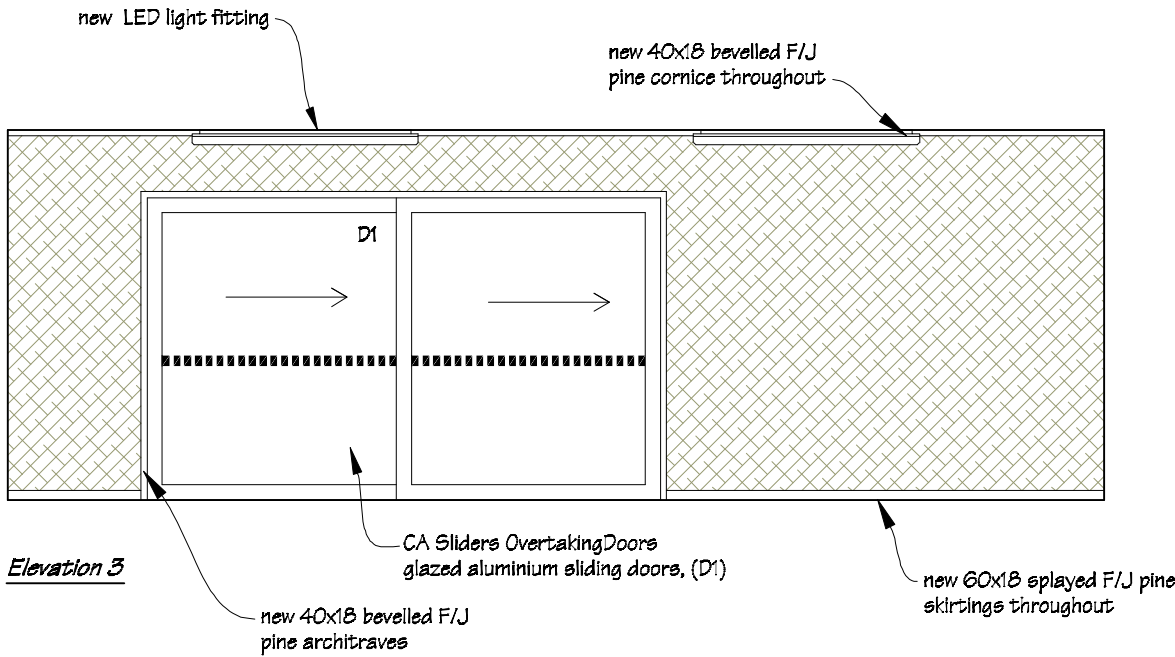
 <p>IR Group Ltd</p>	Phone- Office 04 526-7711 Mobile- Ian 021-427.347 Mobile- Stephen 027-3355889 Email- ian@irgroup.co.nz Email- steve@irgroup.co.nz Web- www.irgroup.co.nz	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Teaching Space 3 Interior Elevations	REVISIONS No Date Description	Scale 1:50	Preliminary Drawings Do not scale from drawings. Check all dimensions on site.
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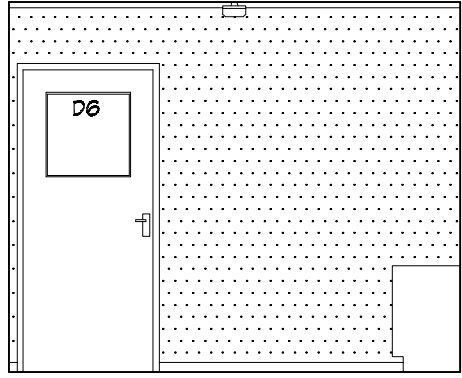
Elevation 1



Elevation 2



Elevation 3




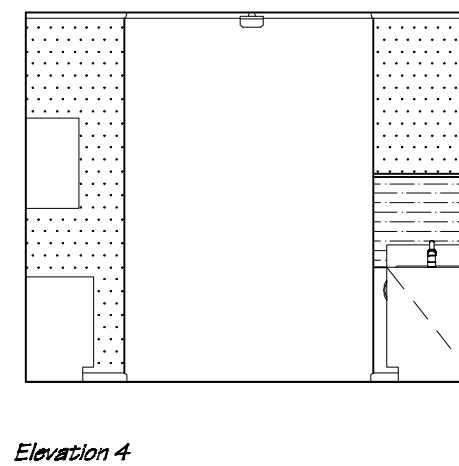
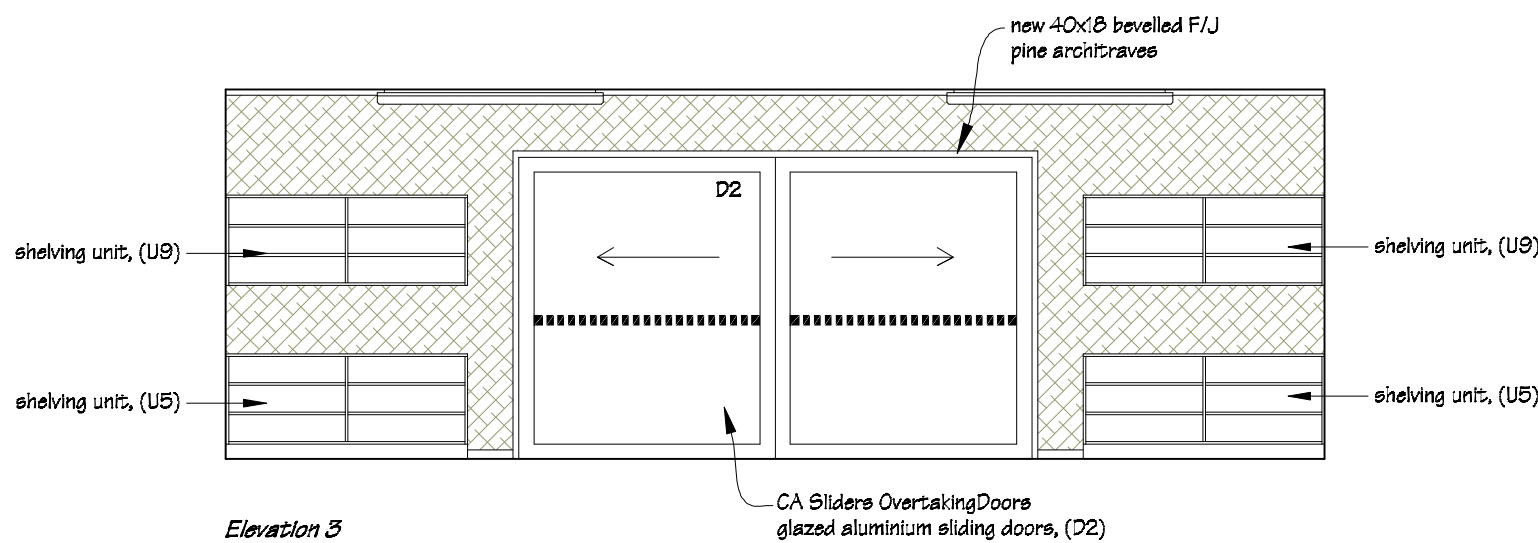
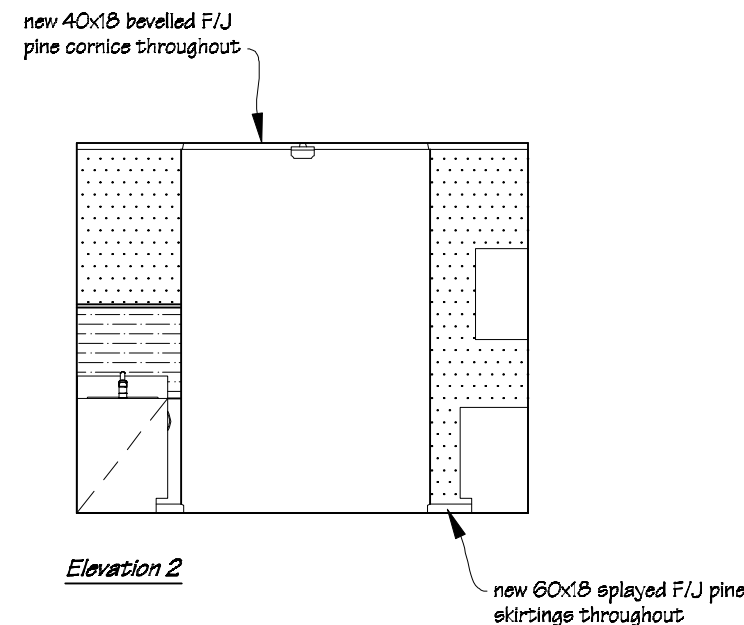
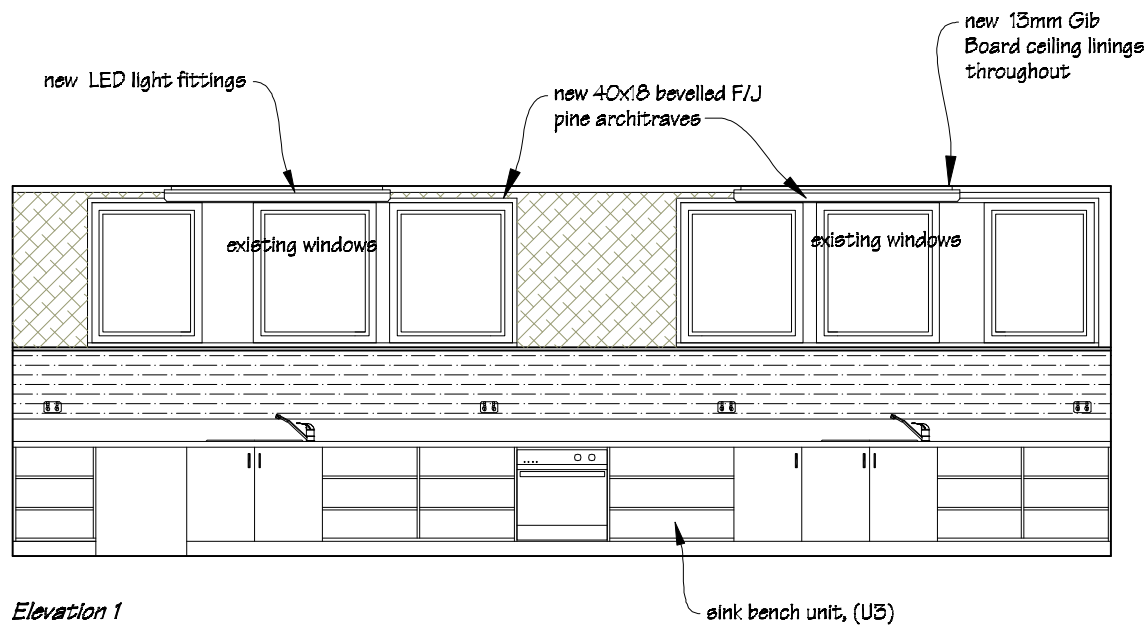
Elevation 4

Wall Coverings Legend



PAINTING:
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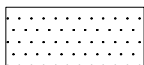
 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Break-out Space 1 Interior Elevations	REVISIONS	Scale 1:50	Preliminary Drawings
	Mobile- Ian 021-427.347				<u>No</u> <u>Date</u> <u>Description</u>	Date 16/01/17	
	Mobile- Stephen 027-3355889					Original sheet size A3	
	Email- ian@irgroup.co.nz					Drawn S.T.	
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	www.irgroup.co.nz				Dwg Ref 27	Do not scale from drawings. Check all dimensions on site.	



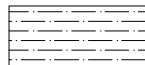
Wall Coverings Legend



Autex Composition Board.




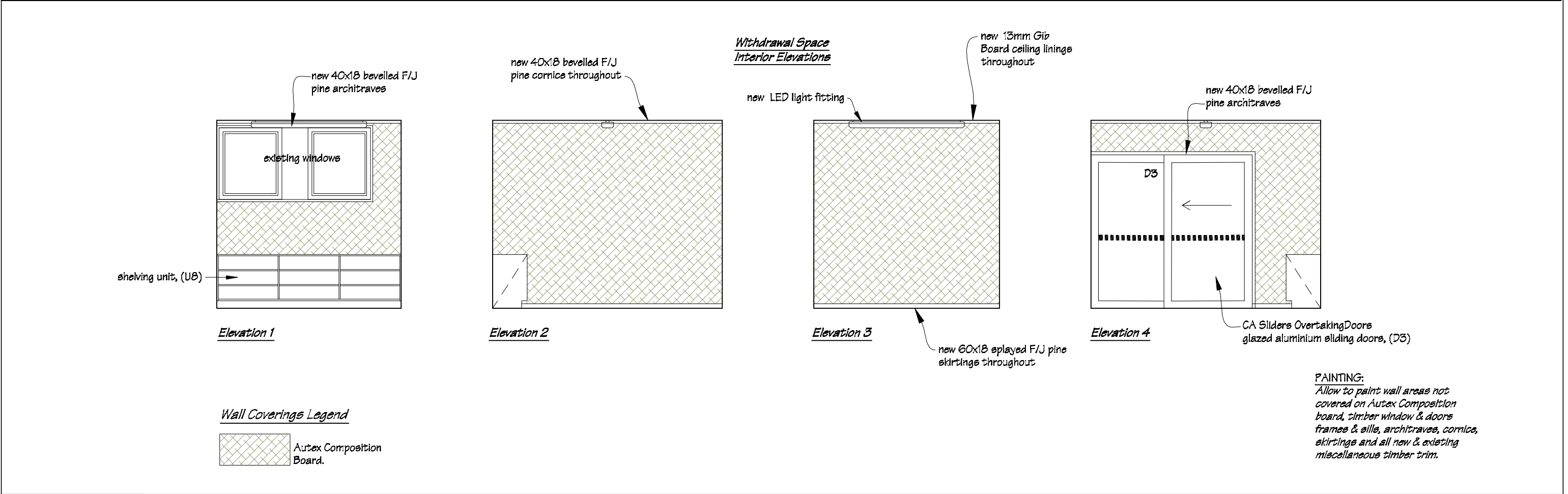
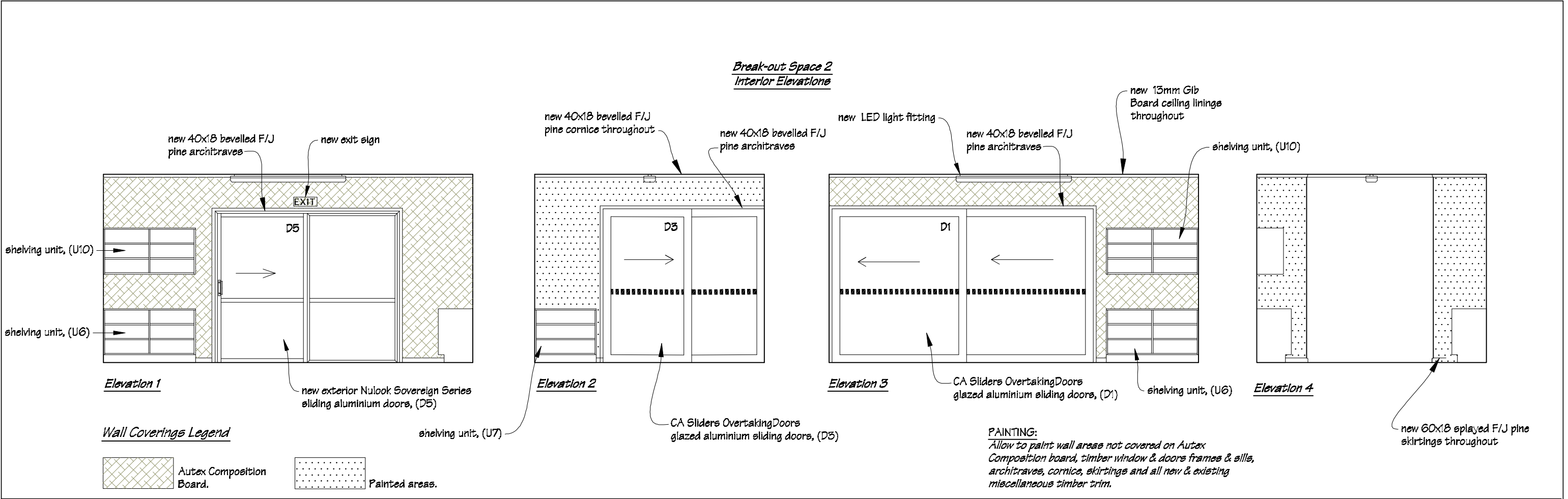
Painted areas.




4.5mm HardieGlaze Smooth wall lining.

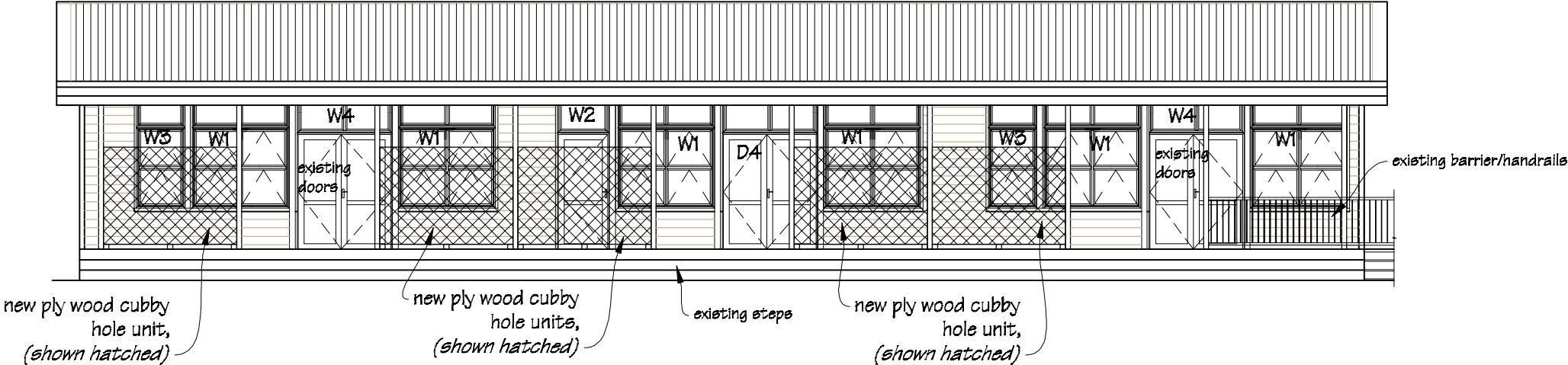
PAINTING:
Allow to paint wall areas not covered on Autex Composition board, timber window & doors frames & sills, architraves, cornice, skirtings and all new & existing miscellaneous timber trim.

 IR Group Ltd <small>Design - Project Management - Planning</small>	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Wet Area Interior Elevations	<table><tr><th colspan="3">REVISIONS</th></tr><tr><th>No</th><th>Date</th><th>Description</th></tr><tr><td> </td><td> </td><td> </td></tr></table>	REVISIONS			No	Date	Description				Scale 1:50	Preliminary Drawings
	REVISIONS															
	No					Date	Description									
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Mobile- Stephen 027-3355889	Original sheet size A3															
Email- ian@irgroup.co.nz	Drawn S. T.															
steve@irgroup.co.nz	Sheet No 28 of 33															
Web- www.irgroup.co.nz	Dwg Ref 28	Do not scale from drawings. Check all dimensions on site.														

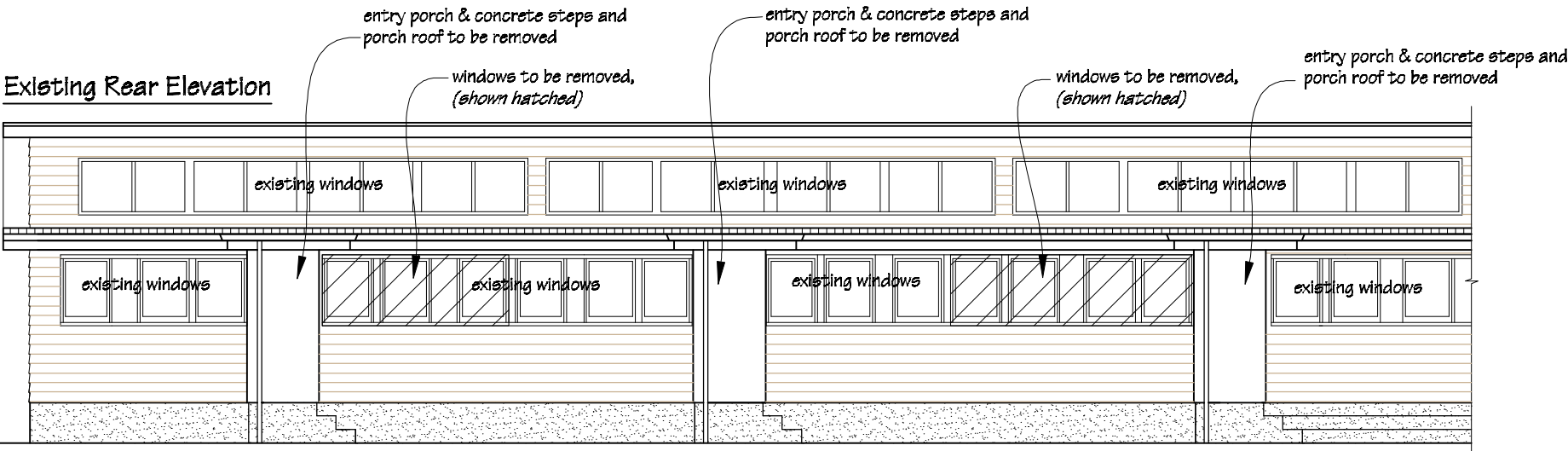


 IR Group Ltd Design - Project Management - Planning	Phone- Office 04 526-7711 Mobile- Ian 021-427,347 Mobile- Stephen 027-3355889 Email- ian@irgroup.co.nz steve@irgroup.co.nz Web- www.irgroup.co.nz	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Break-out Space & Withdrawal Room Interior Elevations	REVISIONS No Date Description	Scale	1:50	Preliminary Drawings Do not scale from drawings. Check all dimensions on site.
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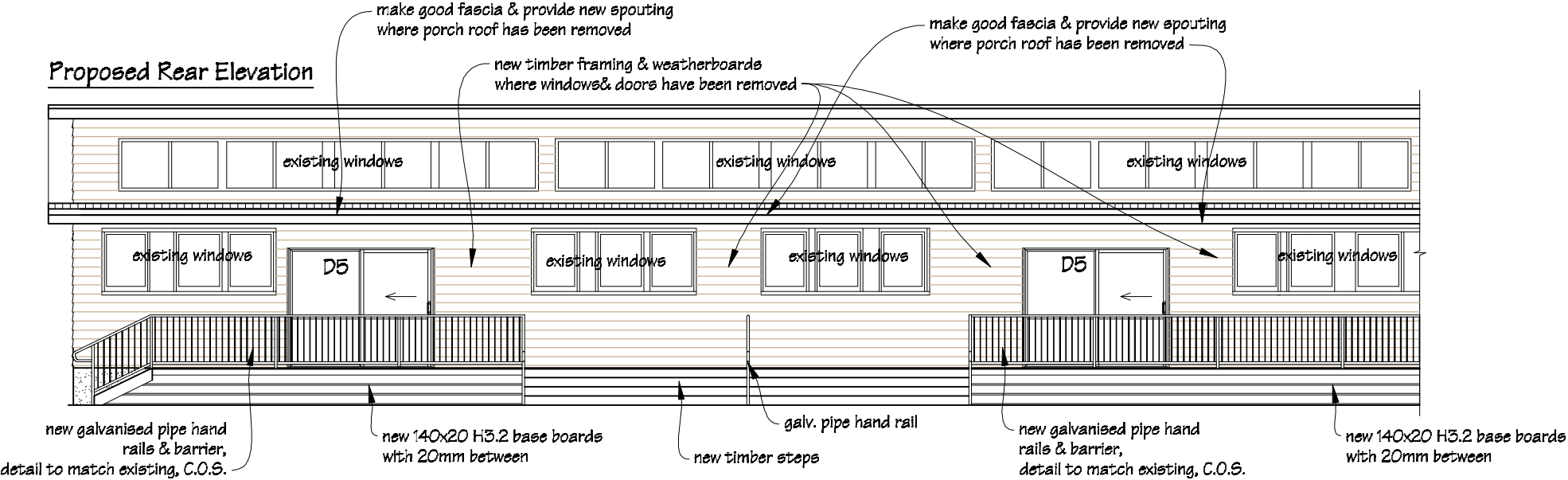
Front Elevation




Existing Rear Elevation



Proposed Rear Elevation



PAINTING:
Allow to paint new timber weatherboards, new fascia, new base boards, and new exterior timber trim.
Paint colours to match existing.

 IR Group Ltd Design - Project Management - Planning	Phone- Office 04 526-7711	Wainuioru School Cnr Westmere & Stronvar Roads RD 10 Masterton	PROJECT Block 1 Classroom Upgrade	DRAWING TITLE Exterior Elevations	REVISIONS	Scale 1:100	Preliminary Drawings	
	Mobile- Ian 021-427.347				No Date Description	Date 16/01/17		
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	Email- ian@irgroup.co.nz					Drawn S.T.		Do not scale from drawings. Check all dimensions on site.
	steve@irgroup.co.nz					Sheet No 30 of 33		
	Web- www.irgroup.co.nz					Dwg Ref 30		



HOT WATER CYLINDER RESTRAINTS

The recent earthquakes in Canterbury have highlighted the need to secure items that may be critical to occupants' survival after an earthquake. One such item is the hot water cylinder.

By Graeme Beattie, BRANZ Principal Engineer

Hot water cylinders are a very valuable source of freshwater when the town supply is cut off, as happened after the earthquake in some parts of Christchurch for several weeks.

The hot water cylinder represents a large inertia mass – a 135 litre cylinder weighs approximately 170 kg when full. Without restraint, these can be flung around by the force of the earthquake and damage other items, or the pipe connections can be fractured (see Figure 1).

Block base and restrain top

Timber blocking may be installed to prevent sliding of the base of the cylinder on its supporting structure (see Figure 2). A minimum of three blocks should be used, spaced as evenly as possible around the perimeter. Each block needs to be fixed down with two Type 17 screws 75 mm long and not less than 12 g or two 100 mm long nails. However, this is only half of the answer.

The hot water cylinder is also liable to topple if it is not restrained at or near the top. Very often, there is only a single wall to which the restraint can be attached. The simplest solution is to install a metal strap commonly available from a builders' merchant (see Figures 2 and 3).



Figure 1: Damage to wall linings from unrestrained hot water cylinder.

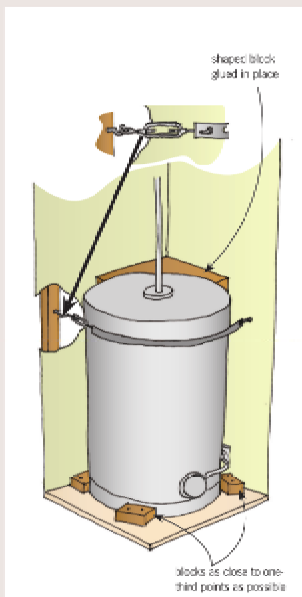


Figure 2: Recommended restraints for hot water cylinder in corner.

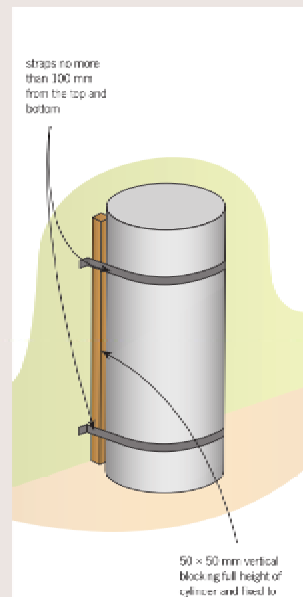


Figure 3: Hot water cylinder restraints on a flat wall (alternative to base blocks and strap at top).

It is important to have a solid substrate to which the restraint strap is attached, and studs or nogs should be located before fixing the strap.

Blocking needed at top as well

Wrapping the strap around the cylinder and fixing it to the wall on each side is not an adequate solution because the cylinder can still rock parallel to the wall during an earthquake.

It is important to fit timber blocking in conjunction with the metal strap (see Figures 2 and 3). This will allow the cylinder to be snugly restrained. As with the base restraint, adequate fixing strength is important to ensure satisfactory performance in an earthquake. Type 17 screws at least 50 mm long are recommended with a 30 x 2 mm square washer to sandwich the strap. Alternatively, a heavy duty hook may be fitted to the stud or nog and a

tumbuckle included in the strap for tensioning. A similar system may be installed near the base of the cylinder if there is no opportunity to fit the timber blocks on the supporting structure beneath.

Similar system for cylinders in corners

Where the cylinder can be restrained in a corner between two walls, a similar restraint system may be used. Again, it is important to pack the space between the cylinder and the walls to ensure that it is firmly sandwiched between the strap and the walls.

Retrofit possible

The restraint systems described can be installed on existing hot water cylinders, but it is simpler to have the restraint fitted during installation.

This allows good access to the back of the hot water cylinder to fit packing.

Curved timber packing blocks ensure an even bearing on the cylinder outer casing for restraint

Heat pump water heaters

Heat pump water heaters are now becoming more common. These usually stand outside the house against the wall with rigid plumbing to the house.

Appropriate packing and blocking can be fitted in place before heat pumps are installed. This will ensure a satisfactory seismic restraint from the outset.

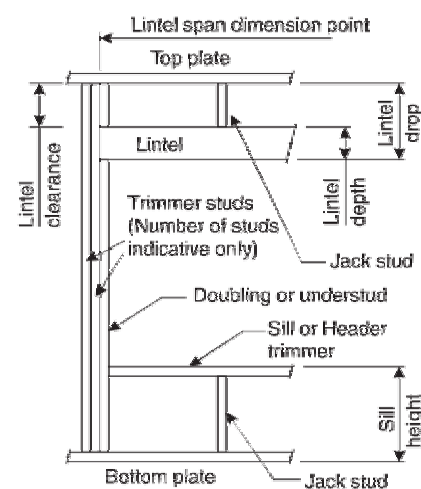
The method is essentially the same as for hot water cylinders, with the aim of preventing movement away from the wall or along the wall, so that the plumbing connections remain sound during an earthquake. ■

LINTEL FIXING SCHEDULE ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12 NZS 3604:2011

NOTE:

- ★ All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20 kPa.
- ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist horizontal loads.
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ All fixings assume bottom plate thickness of 45mm maximum. Note: TYLOK options on timber species.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:2011.

DEFINITIONS



Lintel Supporting Girder Trusses:

Roof Tributary Area	Light Roof Wind Zone				Heavy Roof Wind Zone			
	L	M	H	VH	L	M	H	VH
8.6 m²	G	G	H	H	G	G	H	H
11.6 m²	G	H	H	H	G	H	H	H
12.1 m²	G	H	H	H	G	H	H	H
15.3 m²	H	H	-	-	G	H	H	H
19.1 m²	H	-	-	-	G	H	-	-
20.9 m²	H	-	-	-	H	H	-	-
21.8 m²	H	-	-	-	H	-	-	-
34.3 m²	-	-	-	-	H	-	-	-

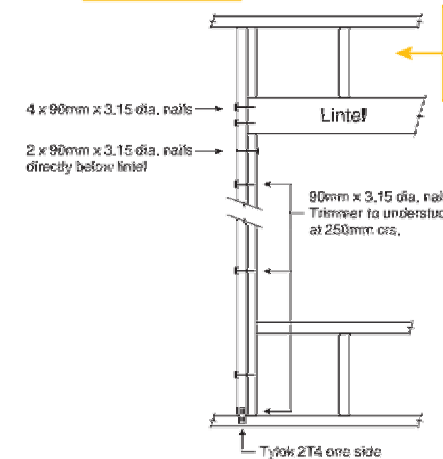
- Notes:
- 1) Roof Tributary Area = approx. 1/2 x (Total roof area on girder and rafter trusses supported by lintel)
 - 2) Assumed girder truss is at mid-span or middle third span of lintel
 - 3) Use similar fixings for both ends of lintel
 - 4) All other cases require specific engineering design

SELECTION CHART FOR LINTEL FIXING

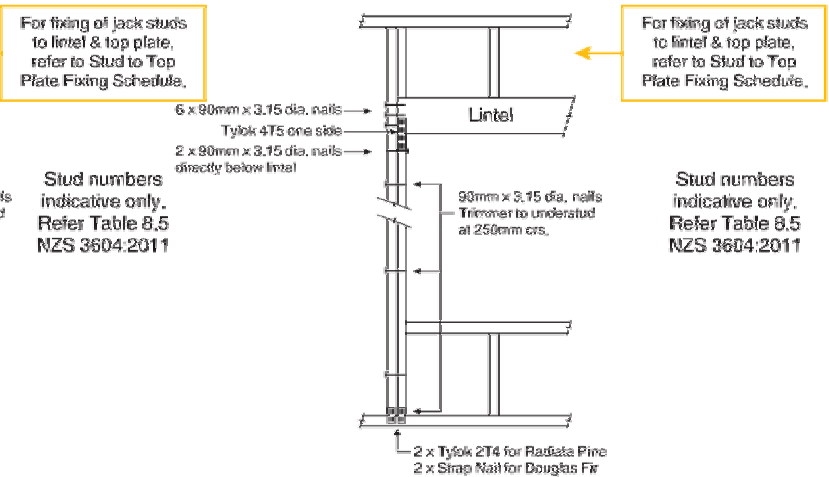
Lintel Span	Loaded Dimension (See Fig. 1.3 NZS 3604:2011)	Light Roof Wind Zone					Heavy Roof Wind Zone				
		L	M	H	VH	EH	L	M	H	VH	EH
0.7	2.0	E	E	E	E	F	E	E	E	E	E
	3.0	E	E	E	E	F	E	E	E	E	F
	4.0	E	E	F	F	F	E	E	E	F	F
	5.0	E	F	F	F	G	E	E	F	F	F
	6.0	E	F	F	G	G	E	E	F	F	G
0.9	2.0	E	E	E	F	F	E	E	E	F	F
	3.0	E	E	F	F	F	E	E	F	F	F
	4.0	E	E	F	F	F	E	E	F	F	F
	5.0	E	F	F	F	G	E	E	F	F	F
	6.0	E	F	F	G	G	E	E	F	F	G
1.0	2.0	E	E	E	F	F	E	E	E	F	F
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	6.0	F	F	G	H	H	E	E	F	G	H
2.0	2.0	E	F	F	F	G	E	E	F	F	F
	3.0	E	F	F	G	G	E	E	F	F	G
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LINTEL FIXING OPTIONS

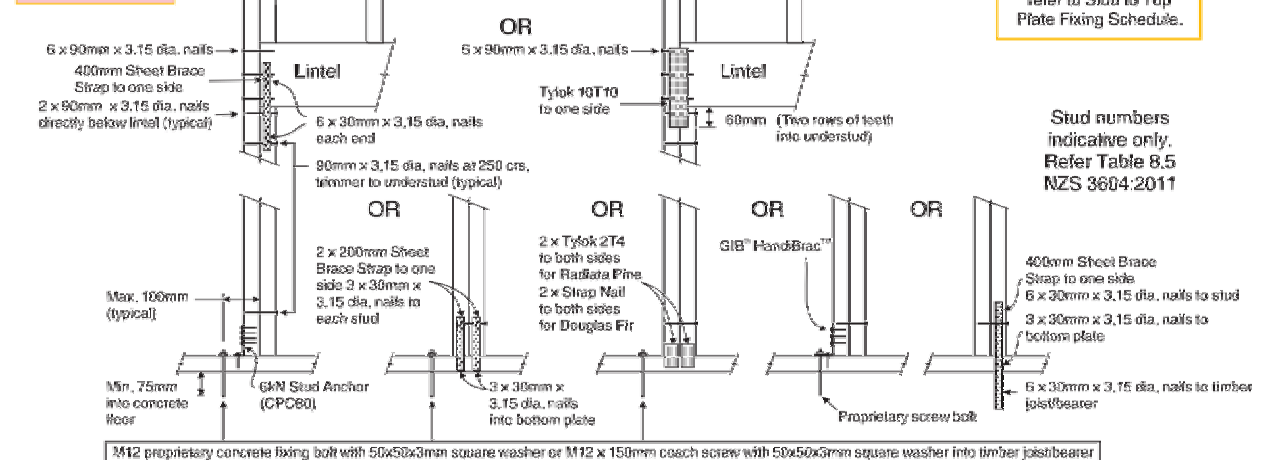
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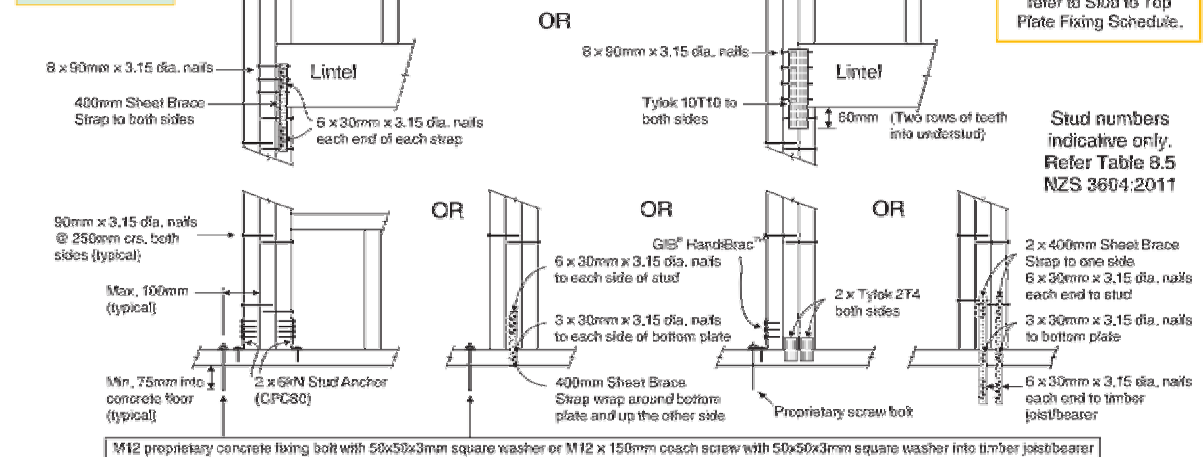
TYPE F 4.0 kN



TYPE G 7.5 kN



TYPE H 13.5 kN



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Wainuioru School
Cnr Westmere & Stronvar Roads
RD 10
Masterton

**Block 1
Classroom Upgrade**

Lintel Fixing Details

REVISIONS
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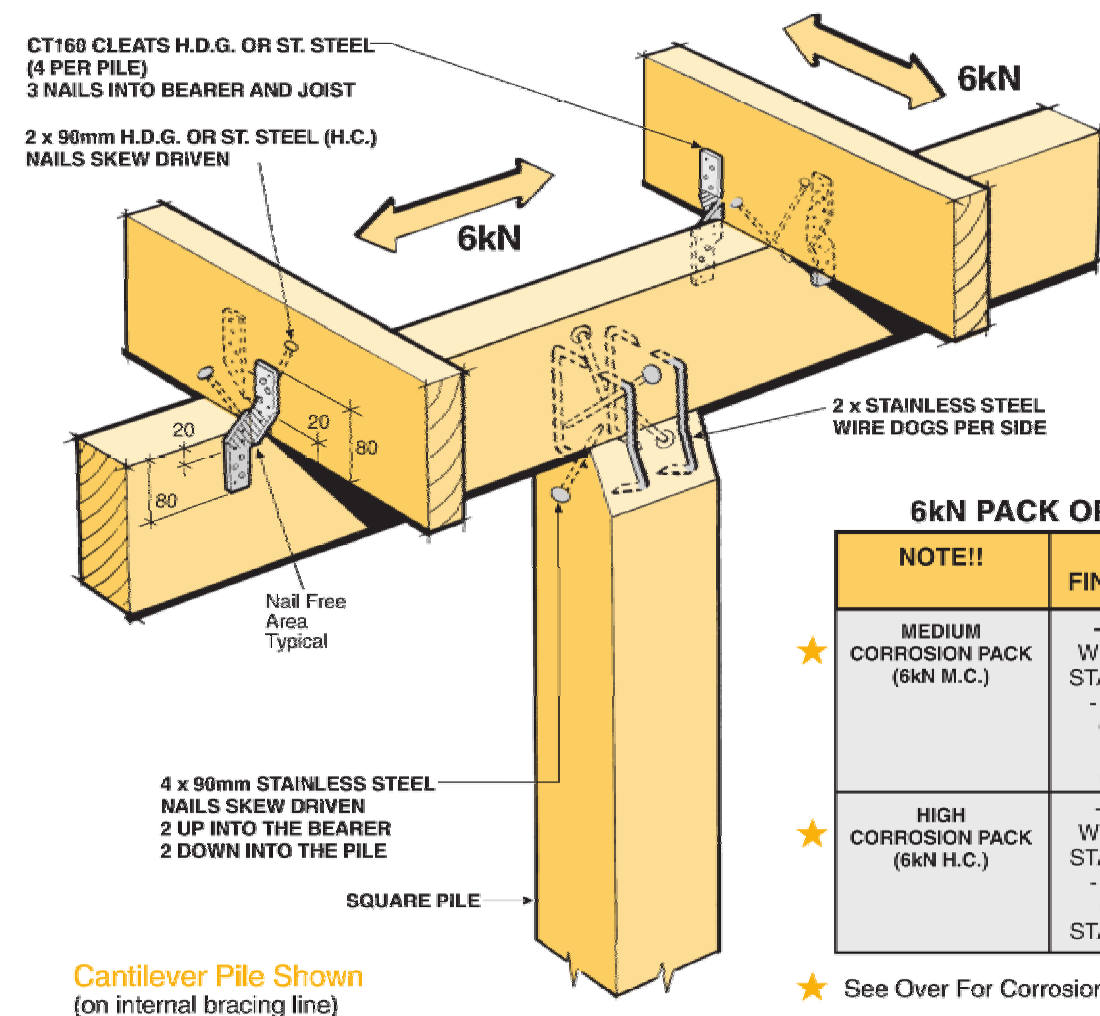
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Date 16/01/17
Original sheet size A5
Drawn S.T.
Sheet No 32 of 33
Dwg Ref 32

Preliminary Drawings

*Do not scale from drawings.
Check all dimensions on site.*

6kN PILE FIXING FOR CANTILEVER PILES

- ★ The 6kN Pile Fixing must be installed in accordance with this brochure
- ★ Auckland University Tested. Test Ref. 4613
- ★ All subfloor construction must be in accordance with NZS 3604:2011
- ★ NZS 3604 requires lines of lateral support to floor joists within 300mm of bearer or bracing lines, refer to Clause 7.1.2



6kN PACK OPTIONS

NOTE!!	PRODUCT FINISH OPTIONS
★ MEDIUM CORROSION PACK (6kN M.C.)	- Pile to Bearer Wire Dogs & Nails STAINLESS STEEL - Joist to Bearer Cleats & Nails HOT DIP GALVANISED
★ HIGH CORROSION PACK (6kN H.C.)	- Pile to Bearer Wire Dogs & Nails STAINLESS STEEL - Joist to Bearer Cleats & Nails STAINLESS STEEL

★ See Over For Corrosion Table.

Available from leading Builders Supply Merchants
throughout New Zealand



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Mobile- Ian 021-427.347
Mobile- Stephen 027-3355889
Email- ian@irgroup.co.nz
steve@irgroup.co.nz
Web- www.irgroup.co.nz

Wainuioru School
Cnr Westmere & Stronvar Roads
RD 10
Masterton

PROJECT

Block 1
Classroom Upgrade

DRAWING TITLE

Typical Pile Fixing Details

REVISIONS

No Description

Scale

Date

Original sheet size

Drawn

Sheet No

Dwg Ref

N.T.S.

16/01/17

A5

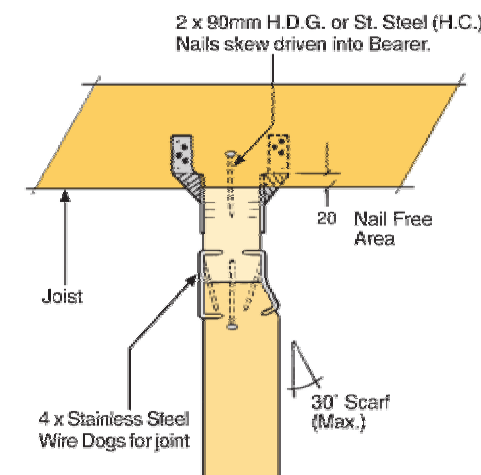
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33 of 33

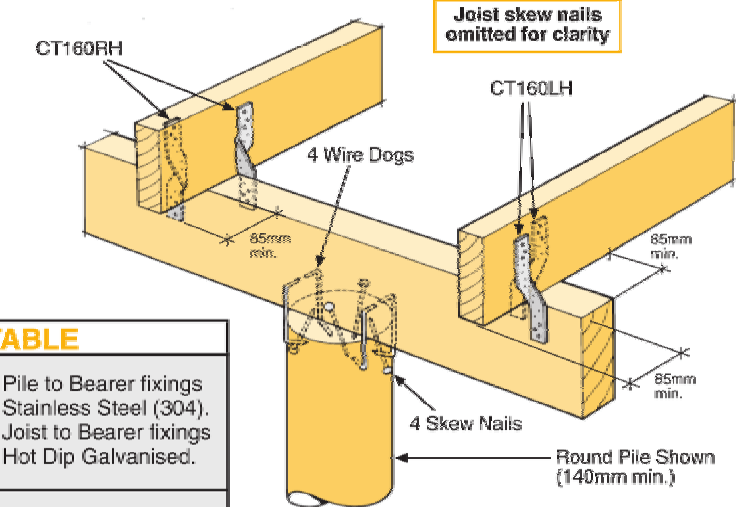
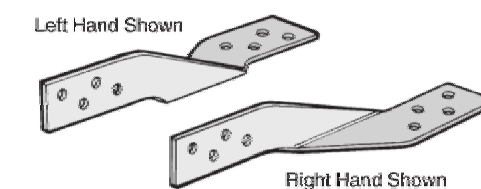
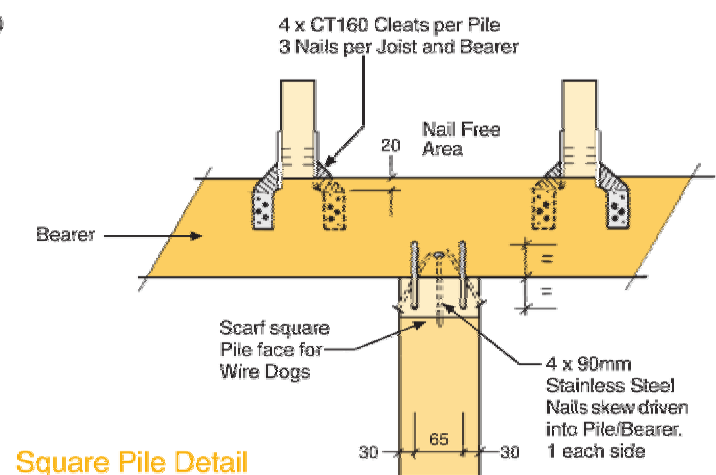
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Preliminary Drawings

Do not scale from drawings.
Check all dimensions on site.



Square Pile Detail



CORROSION HAZARD USE TABLE

Medium Corrosion Pack (6kN MC) - Zones B & C - If Joist to Bearer Fixings ABOVE 600mm from Ground level	Pile to Bearer fixings Stainless Steel (304). Joist to Bearer fixings Hot Dip Galvanised.
High Corrosion Pack (6kN HC) - Zone D - All Fixings BELOW 600mm from Ground level	All items Stainless Steel (304).

6kN Joint Fixing Schedule

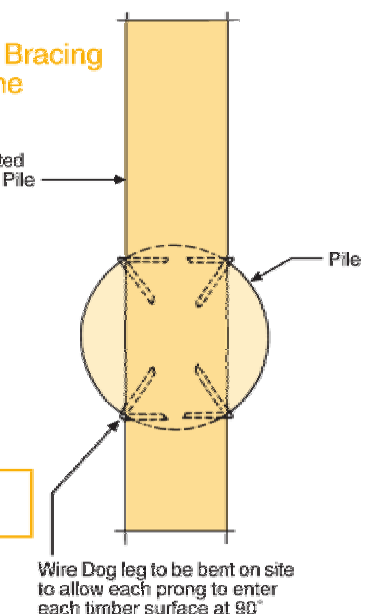
PILE TO BEARER	- Wire Dog Staples (4 per joint) Stainless Steel - 4 x 90mm Skew Nails (1 per face) Stainless Steel
JOIST TO BEARER	- CT160 Cleats (4 per pile) 160mm long - 3 Nails per Cleat into Joist - 3 Nails per Cleat into Bearer - 2 Skew Nails 90mm (1 per side) - 24 x 45mm x 3.55 dia. Spiral Nails (for Joist to Bearer fixings) - 4 x 90mm x 4 dia. St. Steel Nails (M.C. Pack only) - 8 x 90mm x 4 dia. St. Steel Nails (H.C. Pack only)
NAILS	

6kN Pile Set Contents Each set represents 1 x 6kN Pile Fixing
(packed 10 sets per carton)

4 x Wire Dog Staples Stainless Steel
4 x CT160 Cleats
24 x 45mm x 3.55 dia. Spiral Nails
90mm St. Steel Nails to suit 4 - M.C. pack
8 - H.C. pack

Refer front page
for Product
Finish Options

90mm H.D.G. Nails
not included.



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