FINISHED SQUARE FOOTAGE COMPLIANCE PLAN

FINISHED AREA: 71.9 SQUARE METERS / 774 SQUARE FEET SHOWN SHADED. FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.
REFERENCE KEYNOTES

SHEET KEYNOTES

1 SITE BOUNDARY
2 EMERGENCY EGRESS ROUTE
3 PRIMARY ENTRANCE
4 SECONDARY ENTRANCE
5 FIRE EXTINGUISHER LOCATED IN THE KITCHEN AND SHED. EXACT LOCATION TO BE CONFIRMED ON SITE.

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES

1 SITE BOUNDARY
2 SITE WIRE FENCING / RING IN A PATTERN.
3 SITE RETAINING WALL / MATERIAL.
4 ALL GARDEN AREAS SHOWN AND PERPENDICULAR TO DIRECTION OF TRAVEL.
5 ALL DECKING LAID PERPENDICULAR TO DIRECTION OF TRAVEL.
6 CLEAR LENGTH AND WIDTH OF LANDING COMPLIANT WITH ICC/ANSI 117.1-2003 SECTION 405.7.2 & 405.7.3.
7 ALL TURNING CIRCLES COMPLIANT WITH ICC/ANSI 117.1-2003 SECTION 304.3.1.
8 SITE ENTRY - TOUR ROUTE STARTS.
9 SITE EXIT - TOUR ROUTE ENDS.
10 HANDRAIL REQUIRED ON WALKWAY DUE TO 500MM GRADIENT CHANGE OVER LENGTH OF RUN. REFER ICC/ANSI 117.1:2003 SECTION 405.8.
11 MANEUVERING CLEARANCE AT INTERIOR SLIDING DOORS COMPLIANT WITH ICC/ANSI 117.1:2003 SECTION 404.2.3.2.
12 180 DEGREE TURN AROUND FURNITURE / OBJECTS IN KITCHEN AND LOUNGE COMPLIANT WITH ICC/ANSI 117.1:2003 SECTION 403.5.

ACCESSIBILITY/HOUSE TOUR PLAN

DECATHLETE WAY

G-103

ADA TOUR ROUTE & EGRESS COMPLIANCE PLAN
1. Note that water supply tanks are fully shaded at all times due to their location underneath decking.

SHADING DIAGRAMS

GENERAL SHEET NOTES

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FIRST LIGHT

MARK DATE DESCRIPTION

11-01-11 FOR CONSTRUCTION

ADDRESS:
139 Vivian Street
Te Aro, Wellington
New Zealand

CONTACT:
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TEAM NAME:
TENNENT + BROWN ARCHITECTS
CONSULTANTS
DUNNING THORNTON CONSULTANTS LTD
LEE AUSTRALIA LTD
SOUTHERN PERSPECTIVES / SOLAR CITY
VICTORIA UNIVERSITY

CLIENT
U.S. DEPARTMENT OF ENERGY
SOLAR DECATHLON 2011
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LOT NUMBER:
DRAWN BY:
CHECKED BY:
COPYRIGHT:

1:96 A1
SHADED PLAN VIEW - 9AM

1:96 A4
SHADED PLAN VIEW - 5PM

1:96 C1
SHADED PERSPECTIVE - 9AM

1:96 C4
SHADED PERSPECTIVE - 5PM

1:96

G-601

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PRODUCED BY AN AUTODESK STUDENT PRODUCT

PRODUCED BY AN AUTODESK STUDENT PRODUCT
LIQUID LOCATION AND SPILL CONTAINMENT PLAN

REFERENCE KEYNOTES

1. 11 31 13 A2 FISHER & PAYKEL 6 PLACE SINGLE DRAWER MODEL DD60SCX6
2. 22 33 30 A1 360 LITRE INSULATED STAINLESS STEEL HOT WATER CYLINDER WITH OVERFLOW TRAY
3. 22 41 00.A1 380 X 380 X 130 MM TRENZ SEMI RECESSED BASIN. MODEL 4148-C
4. 22 41 00.A2 IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED 'WATERMARK' DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION DETAILS

SHEET KEYNOTES

234 WC NOT CONNECTED TO MAIN DRAIN AND CAPPED FOR PURPOSES OF THE COMPETITION
430 OUTLINE OF DECKING/LANDSCAPE SHOWN DASHED
432 GENERATOR LOCATION. NOTE THAT THE GENERATOR IS IN PLACE FOR THE ASSEMBLY AND DISASSEMBLY PHASES ONLY AND WILL BE REMOVED DURING THE COMPETITION WEEK. GENERATOR TO SIT ON SPILL CONTAINMENT BERM (SIZED TO SUIT)

GENERAL SHEET NOTES

SECOND MODULAR NOT SHOWN IN THIS VIEW FOR CLARITY

MARK DATE DESCRIPTION
080111 FIRSTLIGHT NZ

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LIQUID LOCATION AND SPILL CONTAINMENT PLAN

FIRSTLIGHT NZ

TENNENT + BROWN ARCHITECTS
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VICTORIA UNIVERSITY

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8/13/2011 8:33:30 AM

PRODUCED BY AN AUTODESK STUDENT PRODUCT
REFERENCE KEYNOTES

05 12 00.A12 ADJUSTABLE STEEL SCAFFOLD SCREW WITH 700X700MM PLYWOOD FOOTING. MAXIMUM VERTICAL DEVIATION 463MM

05 12 00.A15 300X300MM STEEL DECK SCAFFOLD FOOTING

05 12 00.A16 ADJUSTABLE STEEL SCAFFOLD SCREW WITH 350X350MM PLYWOOD FOOTING. MAXIMUM VERTICAL DEVIATION 463MM

05 12 00.A17 450X450MM STEEL DECK SCAFFOLD FOOTING

22 12 00 A1 3295 LITRES / 870 GALLONS POTABLE WATER SUPPLY LOCATED UNDERNEATH DECKING. TANK TO BE 'WET EARTH' BLADDER TANK - 6100 X 1800 X 300MM

22 12 00 A3 768 LITRE / 203 GALLON WASTE WATER STORAGE TANKS LOCATED UNDERNEATH DECKING. TANKS TO BE 'WET EARTH' BLADDER TANKS. 1600 X 1600 X 300MM

22 12 00 B1 TIMBER SUPPORT STRUCTURE FOR WATER SUPPLY BLADDER. 75 X 90MM BEARERS WITH 18MM PLY SHEET OVER. BEARING PRESSURE 50 KPA TO CENTRAL BEARER, 20 KPA TO OUTER BEARERS

22 12 00 B3 TIMBER SUPPORT STRUCTURE FOR GREY WATER TANKS. 75 X 90MM BEARERS WITH 18MM PLY OVER. BEARING PRESSURE 50 KPA FOR CENTRAL BEARER, 20 KPA FOR OUTER BEARERS

26 05 26.A1 ORGANISER SUPPLIED GROUNDING ELECTRODES. 15.9MM Ø GROUDING ROD TO EXTEND 460MM INTO GROUND. NOTE THAT THESE ARE THE ONLY ITEMS WHICH PENETRATE THE GROUND

32 94 00.A1 COASTAL PLANTER TYPE 1 - 864L X 864W X 258H MM

32 94 00.A2 COASTAL PLANTER TYPE 2 - 1184L X 1184W X 344H MM

32 94 00.A3 COASTAL PLANTER TYPE 3 - 864L X 864W X 344H MM

32 94 00.A15 TYPICAL PLANTER TYPE 15 - 1696L X 350W X 516H MM

GENERAL SHEET NOTES

1 SITE BOUNDARY
457 FOUNDATION ELEMENTS SHADED BLUE HAVE A MAXIMUM BEARING PRESSURE OF 70 KPA
458 FOUNDATION ELEMENTS SHADED GREEN HAVE BEARING PRESSURE OF 40-63 KPA
459 FOUNDATION ELEMENTS SHADED ORANGE HAVE BEARING PRESSURE OF 45-55 KPA
460 FOUNDATION ELEMENTS SHADED YELLOW HAVE BEARING PRESSURE OF 12-30 KPA
461 FOUNDATION ELEMENTS SHADED PINK HAVE A MAXIMUM BEARING PRESSURE OF 50 KPA
462 BEARERS FOR PLANTERS HAVE BEARING PRESSURE 28-50 KPA
476 NOTCH BEARERS FOR PLANTERS AND WATER BLADDERS WHERE THESE CROSS SCAFFOLD FOOTINGS
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<tr>
<th>CODE</th>
<th>NAME</th>
<th>BOTANICAL NAME</th>
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UTILITY DECK SECTION

REFERENCE KEYNOTES

05 12 00.A15 300X300MM STEEL DECK SCAFFOLD FOOTING
05 12 00.L4 48MM STANDARD SCAFFOLD POLE
06 11 00.C7 240X45MM TIMBER TOP PLATE
06 15 13.A1 90X45MM BLOCKING TIMBER
06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A5 140X45MM TIMBER JOIST
32 94 00.A3 COASTAL PLANTER TYPE 3 - 864L X 864W X 344H MM
32 94 00.A4A TYPICAL PLANTER TYPE 4A - 1696L X 600W X 430H MM
32 94 00.A16 INNER PLANTER BOX

SHEET KEYNOTES

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT

UTILITY DECK SECTION

L-301
REFERENCE KEYNOTES

05 12 00.A15 300X300MM STEEL DECK SCAFFOLD FOOTING
05 12 00.A17 450X450MM STEEL DECK SCAFFOLD FOOTING
05 12 00.L4 48MM STANDARD SCAFFOLD POLE
05 50 00.L3 LANDSCAPE SCREEN TYPE 3 - NUMBER NEEDED 2
06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A6 45X45MM TIMBER HALF JOIST
06 15 13.A8 90X45MM TIMBER END JOIST
32 94 00.A6 TYPICAL PLANTER TYPE 6 - 1184L X 350W X 516H MM
32 94 00.A9 TYPICAL PLANTER TYPE 9 - 1018L X 250W X 774H MM
32 94 00.A10 TYPICAL PLANTER TYPE 10 - 864L X 250W X 774H MM
32 94 00.A11 TYPICAL PLANTER TYPE 11 - 1184L X 250W X 1032H MM
32 94 00.A16 INNER PLANTER BOX
32 94 00.A17 CONCRETE BENCH

SHEET KEYNOTES

GENERAL SHEET NOTES

1 : 24
C1 LANDSCAPE GRID 2 TRANSVERSE SECTION

A1 CENTRE MODULE SECTION

LANDSCAPE TRANSVERSE SECTIONS
L-302
467 SCREW FIX MODULES TOGETHER ON SITE
468 50 X 50MM TIMBER BLOCKING SCREW FIXED TO TIMBER DECK, NOT FIXED TO PLANTER
469 30-50MM MULCH MATERIAL
470 POLYSTYRENE FILL AROUND PLANTS
471 PLANTS TO REMAIN IN GROW BAGS
472 STEEL MESH TO SUPPORT PLANT BAG
473 SPONGE TO SOAK AND HOLD EXCESS WATER
474 WATERPROOF MEMBRANE

REFERENCE KEYNOTES

SHEET KEYNOTES

GENERAL SHEET NOTES
REFERENCE KEYNOTES

06 15 13.A1 90X45MM BLOCKING TIMBER
06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A6 45X45MM TIMBER HALF JOIST
06 15 13.A7 90X45MM TRIMMING JOIST

SHEET KEYNOTES

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT

DECK MODULE TYPE F

L-605
REFERENCE KEYNOTES

06 15 13.A1 90X45MM BLOCKING TIMBER
06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A6 45X45MM TIMBER HALF JOIST
06 15 13.A7 90X45MM TRIMMING JOIST

SHEET KEYNOTES

GENERAL SHEET NOTES

HERRINGBONE CORNER DETAIL

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PRODUCED BY AN AUTODESK STUDENT PRODUCT

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DECK MODULE TYPE L

L-608
REFERENCE KEYNOTES

06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A6 45X45MM TIMBER HALF JOIST
06 15 13.A7 90X45MM TRIMMING JOIST
06 15 13.A8 90X45MM TIMBER END JOIST

SHEET KEYNOTES

1:12 TYPE O REFLECTED PLAN
1:12 TYPE N REFLECTED PLAN
1:12 TYPE N SECTION
1:12 TYPE O SECTION

DECK MODULE TYPE N & O

L-610

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GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 15 13.A2 90X21MM DECKING TIMBER
06 15 13.A4 90X45MM TIMBER JOISTS
06 15 13.A6 45X45MM TIMBER HALF JOIST
06 15 13.A8 90X45MM TIMBER END JOIST

SHEET KEYNOTES

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT

DECK MODULE TYPE P & Q

L-611
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

- 03 33 01 70MM THICK HOLLOWCORE CONCRETE BENCHTOP
- 05 50 00.L6 75 X 6MM EQUAL ANGLE BOLTED TO DECKING JOISTS WITH STAINLESS STEEL M12 BOLTS
- 05 50 00.L7 125 X 75 X 6MM ANGLE WELDED TO EQUAL ANGLE BELOW. FIXED TO TABLE STRUCTURAL FRAME WITH 10MM STAINLESS STEEL THREADED ROD AS INDICATED
- 05 50 00.L8 M10 STAINLESS STEEL THREADED ROD WITH STAINLESS STEEL WASHERS AND HEX NUTS EITHER END
- 05 50 00.L9 65 X 35MM RHS STRUCTURAL FRAME. BEAMS BUTT WELDED TO LEGS.
- 05 50 00.L10 40 X 40 X 3MM TAB WELDED TO STEEL FRAME. ALLOWS FRAME TO BE FIXED TO CONCRETE TOP
- 06 15 13.A2 90X21MM DECKING TIMBER
- 06 40 24 L 90 X 32MM PINE FIXED TO STEEL STRUCTURE WITH M10 STAINLESS STEEL THREADED ROD

**SHEET KEYNOTES**

- A1 EXTERIOR BENCH ELEVATION
- A5 EXTERIOR BENCH SECTION 1
- D1 LANDSCAPE BENCH PLAN
- D5 LANDSCAPE BENCH ISOMETRIC
- A3 EXTERIOR BENCH SECTION 2

**SHEET TITLE**

L-701
**Reference Keynotes**

- **05 50 00.A23**: 80 X 40 X 6 ALUMINIUM RHS
- **06 11 00.A1**: 75X19MM CEDAR SLATS AT 100MM CENTRES
  - Fixed to 65X35MM BATTENS.
  - Constructed in panelised system for onsite assembly.
- **06 11 00.A2**: 90 X 45MM TIMBER SUPPORT STUD
- **06 18 00.A1**: 318X90MM GLUE-LAMINATED TIMBER BEAM
  - Spanning between columns, tapering to 135X90 @ cantilevered ends. Refer fabrication drawings.
- **06 18 00.A2**: 135X42MM GLULAM GL8 RAFTERS AT 750MM NOM. CENTRES SPANNING FULL LENGTH OF CANOPY, TAPERING TO 70X42MM @ cantilevered end. Refer fabrication drawings.

**Sheet Keynotes**

- **56**: Constructed in panelised system for onsite assembly.

**General Sheet Notes**

- Produced by an Autodesk student product.
Foundation & Floor Plan

Note: Additional blocking not shown; refer to original drawings for details. Floor designed for 5kPa live load.
Wall Bracing Plan

Sketch

Dunning Thornton consultants

Job Name: VW Module for Solar Decathlon 2011

Job No: 6751

Drawn By: RGC

Date: 11.10

Skt No: SK02

Lot Number:

Author:

Check:

Title:

Lot:

Design:

Copy:

Client:

U.S. Department of Energy

Solar Decathlon 2011

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Team Name:

Address:

Contact:

Tennent + Brown Architects

Consultants

Dunning Thornton Consultants Ltd

Leap Australasia Ltd

Southern Perspectives / Solar City

First Light

Elinuttall@gmail.com

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Structural Engineers' Bracing Plan

Sheet

S-202

Sheet

General Sheet Notes

Reference Keynotes

Sheet Keynotes

General Sheet Notes

Reference Keynotes

Sheet Keynotes

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Canopy Roof Plan
Typical wall:
Poly coated wall
Nailing:
2.8 @ 250 @ 15000
@ sheet edges @
3000@ Internally:

90x95 stud

4@ 90x95 stud
central.

7.3 Flexus

21 ply

plate

9@ 5.15x90

nailed.

3.15x90 nails
C2 block.

15000

T17/19 screws
9@ 25000

(coarse holes
C 3000@)

Composite floor
Shear connectors:
Type 17, 14 screws
W/Hex Head - 15000
@ 45° A @ 14500.
2.6" X 50 NAILS
3.125" LONG TO 1/2" PLY
ROOF DIAPHRAGM SHEET
EDGES (95%).
BLOCK TO
FURNISH.
21 PLY
PIECE
400 (25)

6MM STAINLESS
CABLE
240 X AC
16G8
TOP PLATE

12 PLY GUSSET
& BLOCK @ MID
SPAN & ENDS.

12 PLY NAIL
@ 150 CPS.

G-LINTER

45 X 45
TOP & BOTTOM CHOPS,
& STIFFENER, 4" O.C.

1.3X1.3
400 (25)
**Sketch**

**Job Name:** VUY

**Lot Number:** S-215

**Structural Engineers Detail Sketches**

**1 Ply for support of Ply Top Sheet - 63 x 32, screws @ 180 CPS.

50 x 2.5% Flat Head Nails @ 12.5 CFS Chop @ Bottom Both Sides @ Joints

12mm Ply Web.

21 Ply [Fib] x 95 x 95 - Clear Block

5 - 50 x 2.5% Nails from Rib to Block @ Beam Web to Block.

63 x 100 Web Stiffener.

**Reference Keynotes**

**Sheet Keynotes**

**General Sheet Notes**

**Produced by an Autodesk Student Product**
13 x 100 LVL STIFFENER

21 ply cover ply on side.

Ø 50 HARDWOOD SHEAR CONNECTOR / LOCATOR

(Similar detail @ floor.)

21-Dec-10, MAST S.R.
DIAPHRAGM

PERIMETER WALLS.
24' x 9'5" TOP PLATE (TP)

6mm x 5.3 WIFE.
12mm TO GYILE / TENSIONER.

STEEL PLATE
ANCHOR POINT
TO TOP PLATE.

16 - 6.5" HOLES @ 50 CM.
FOR TYP / UG SCREWS.
BEARER CONNECTION PLAN

BEARER & CONNECTION PLATE DETAIL

BEARER LONGITUDINAL SECTION

BEARER TRANSVERSE SECTION

REFERENCE KEYNOTES:

05 12 00.A1 100X100X10MM EA FOUNDATION BEARER
05 12 00.A14 100X100X10MM EA FOUNDATION BEARER

CONNECTON ANGLE

SHEET KEYNOTES:

80 4/M16 COUNTERSUNK BOLTS FITTED VERTICALLY & HORIZONTALLY THROUGH ANGLES
81 6MM FILLET WELD AROUND ALL EDGES BETWEEN CONNECTION ANGLE AND SINGLE BEARER
83 M16 COUNTERSUNK BOLTS INSIDE FACE OF BEARER MUST REMAIN FREE FROM OBSTRUCTION
84 GRIND CORNER OF BEARER LOCALLY SO BEARER CONNECTION ANGLE FITS SNUGLY

GENERAL SHEET NOTES:

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TYPICAL FRAME EXPLODED

REFERENCE KEYNOTES

- 05 12 00.A1 100X100X10MM EA FOUNDATION BEARER
- 05 12 00.A4 10MM STEEL PLATE
- 05 12 00.A6 160X50X10MM STEEL SUPPORT PLATE
- 05 12 00.A8 50X50X4MM SHS STEEL ADJUSTABLE INSERT
- 05 12 00.A9 STEEL SCAFFOLD SCREW JACK NUT
- 05 12 00.A10 230X160X10MM STEEL POST CONNECTION PLATE
- 05 12 00.A12 ADJUSTABLE STEEL SCAFFOLD SCREW WITH 700X700MM PLYWOOD FOOTING. MAXIMUM VERTICAL DEVIATION 463MM
- 05 12 00.A14 100X100X10MM EA FOUNDATION BEARER CONNECTION ANGLE

SHEET KEYNOTES

- 43 FOUNDATION BASE PLATE. 3X21MM PLYWOOD SHEETS
- 70 ADJUSTABLE INSERT TIGHT FITTED BETWEEN ANGLES AND WELDED PLATE
- 71 OUTRIGGER WELDED TO CONNECTION PLATE
- 78 PLATE WELDED TO POST SUPPORT 160X50MM
- 94 10MM PLATE WELDED BETWEEN ANGLES TO FORM BOX, CREATE TIGHT FIT TO SHS INSERT. INSIDE FACE MUST REMAIN CLEAR TO ENABLE INSERT TO SLIDE

GENERAL SHEET NOTES

- PRODUCED BY AN AUTODESK STUDENT PRODUCT
07 58 00.A1 BUTYNOL ROOFING MEMBRANE ON PLYWOOD SUBSTRATE. 1.5° FALL TO ROOF.

08 80 00.A3 TRIPPLE GLAZED THREE PART CUSTOM SKYLIGHT STRUCTUALLY SEALED TO MS ANGLE FRAMES. 42MM, 3° FALL

12 21 00.A1 MOTORISED ROLLOUT THERMAL SKYLIGHT INSULATION UNDER SKYLIGHT.

85 ROOF PANELS SCUPPERED ON NORTH EDGE.

86 PARAPET FLASHING OVER EXTERIOR CLADDING PANELS INSTALLED AFTER MODULE ASSEMBLY

96 INDIVIDUAL ROOFING MODULES PREFABRICATED OFF SITE

REFERENCE KEYNOTES

Sheet Keynotes

85 ROOF PANELS SCUPPERED ON NORTH EDGE.

86 PARAPET FLASHING OVER EXTERIOR CLADDING PANELS INSTALLED AFTER MODULE ASSEMBLY

96 INDIVIDUAL ROOFING MODULES PREFABRICATED OFF SITE

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT

PRODUCED BY AN AUTODESK STUDENT PRODUCT

PRODUCED BY AN AUTODESK STUDENT PRODUCT
REFLECTED CEILING PLAN

1. MEASUREMENTS FOR CEILING FITTINGS TAKEN FROM WALL STRUCTURE.
**REFERENCE KEYNOTES**

03 33 19.A1 50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING)

05 12 00.A12 ADJUSTABLE STEEL SCAFFOLD SCREW WITH 700X700MM PLYWOOD FOOTING. MAXIMUM VERTICAL DEVIATION 463MM

06 11 00.A1 75X19MM CEDAR SLATS AT 100MM CENTRES FIXED TO 65X35MM BATTENS. CONSTRUCTED IN PANELISED SYSTEM FOR ONSITE ASSEMBLY.

06 11 00.A2 90 X 45MM TIMBER SUPPORT STUD

06 11 00.C1 240X45MM LVL TRIMMING JOIST

06 18 00.A1 318X90MM GLUE-LAMINATED TIMBER BEAM SPANNING BETWEEN COLUMNS, TAPERING TO 135X90 @ CANTILEVERED ENDS. REFER FABRICATION DRAWINGS.

06 18 00.A3 90X180MM GLULAM GL10 COLUMN. REFER FABRICATION DRAWINGS.

06 20 13.A1 65X19MM CEDAR SLATS @100MM CENTRES

06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS

06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS

07 21 16.A1 WOOL INSULATION BATTS

07 41 13.A1 METALCRAFT PROFILED CORRUGATE ROOFING AT 3°. BOLT FIXED TO STEEL ANGLE

07 58 00.A2 ROOF MODULES GENERALLY SELECTED ROOFING MEMBRANE ON PLYWOOD SUBSTRATE AND CNC ROUTED JOISTS TO FALLS. SEE RELEVANT DETAIL

08 80 00.A3 TRIPPLE GLAZED THREE PART CUSTOM SKYLIGHT STRUCTUALLY SEALED TO MS ANGLE FRAMES. 42MM, 3° FALL

12 21 00.A1 MOTORISED ROLLOUT THERMAL SKYLIGHT INSULATION UNDER SKYLIGHT.

22 14 13.A2 55X75MM RECTANGULAR FACTORY PAINTED STEEL DOWNPIPE CONCEALED IN WALL CAVITY

26 31 00 A1 225W MITSUBISHI PHOTOVOLTAIC COLLECTORS
1. Module 3 will be disassembled and packed into the 40 foot shipping containers.
REFERENCE KEYNOTES

06 11 00.A8 30X45MM TIMBER BLOCKING
06 11 00.B2 70X45MM TIMBER STUD
06 11 00.B3 70X45MM HORIZONTAL TIMBER
06 11 00.B9 140X45MM TIMBER STUD
06 11 00.B10 140X45MM HORIZONTAL TIMBER
06 11 00.C2 240X45MM LVL WALL STUD
06 11 00.C7 240X45MM TIMBER TOP PLATE
06 11 00.F1 90X45MM TIMBER WALL STUD
06 11 00.G2 45X45MM BLOCKING TIMBER
06 16 00.A1 12MM PLYWOOD BRACING SHEETS LAID VERTICALLY
06 16 00.A3 21MM PLYWOOD
06 16 00.A6 21MM PLYWOOD BOTTOM PLATE
06 16 00.A11 12MM PLYWOOD LINING, TREATED AND PAINTED

GENERAL SHEET NOTES

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REFERENCE KEYNOTES

06 11 00.B3 70X45MM HORIZONTAL TIMBER
06 11 00.B8 140X45MM TIMBER AND PLYWOOD FORMING BOX BEAM LINTEL
06 11 00.B10 140X45MM HORIZONTAL TIMBER
06 11 00.C2 240X45MM LVL WALL STUD
06 11 00.C7 240X45MM TIMBER TOP PLATE
06 11 00.G1 45X45MM HORIZONTAL TIMBER
06 16 00.A1 12MM PLYWOOD BRACING SHEETS LAID VERTICALLY
06 16 00.A3 21MM PLYWOOD
06 16 00.A5 12MM PLYWOOD GUSSET @ MID SPAN AND ENDS (SHOWN ABOVE)
06 16 00.A6 21MM PLYWOOD BOTTOM PLATE
06 16 00.A11 12MM PLYWOOD LINING, TREATED AND PAINTED
06 26 40.A1 83X12MM TONGUE AND GROOVE RIMU BOARDS NAIL FIXED THROUGH TONGUE TO METAL BATTEN

SHEET KEYNOTES

91 FIX WITH 2.8MMØ X50 FLAT HEAD NAILS @150MM CTRS TO SHEET EDGES, 300MM CRTS INTERNALLY
92 PLYWOOD SHEETS SHOWN BEYOND. FIX WITH 2.8Ø X50 FLAT HEAD NAILS @150CRS TO SHEET EDGES, 300CRS INTERNALLY

GENERAL SHEET NOTES

1:24

WALL TYPE 3 FRAMING ELEVATION
WALL TYPE 3 SECTION
REFERENCE KEYNOTES

- 06 11 00.A8: 30x45mm timber blocking
- 06 11 00.B3: 70x45mm horizontal timber
- 06 11 00.B9: 140x45mm timber stud
- 06 11 00.B10: 140x45mm horizontal timber
- 06 11 00.C2: 240x45mm LVL wall stud
- 06 11 00.C7: 240x45mm timber top plate
- 06 11 00.F1: 90x45mm timber wall stud

SHEET KEYNOTES

- 91: Fix with 2.8mm Ø x 50 flat head nails @150mm ctrs to sheet edges, 300mm crs internally
- 92: Plywood sheets shown beyond. Fix with 2.8mm Ø x 50 flat head nails @150 mm crs to sheet edges, 300mm crs internally

GENERAL SHEET NOTES

- 1:24

WALL TYPE 7 FRAMING ELEVATION

WALL TYPE 7 SECTION

WALL TYPE 7

A-419
REFERENCE KEYNOTES

06 11 00.B3 70X45MM HORIZONTAL TIMBER
06 11 00.F1 90X45MM TIMBER WALL STUD
06 11 00.F2 90X45MM TIMBER BOTTOM PLATE
06 11 00.F3 90X45MM TIMBER TOP PLATE
06 11 00.F6 90X45MM TIMBER BLOCKING
06 16 00.A1 12MM PLYWOOD BRACING SHEETS LAID VERTICALLY

SHEET KEYNOTES

91 FIX WITH 2.8MMØ X50 FLAT HEAD NAILS @150MM CTRS TO SHEET EDGES, 300MM CRS INTERNALLY

92 PLYWOOD SHEETS SHOWN BEYOND. FIX WITH 2.8Ø X50 FLAT HEAD NAILS @150CRS TO SHEET EDGES, 300CRS INTERNALLY

GENERAL SHEET NOTES

1:24

WALL TYPE 8 FRAMING ELEVATION

WALL TYPE 8 SECTION

WALL TYPE 8

WALL TYPE 8

WALL TYPE 8

A-420
**REFERENCE KEYNOTES**

- 06 11 00.C7 240x45mm Timber Top Plate
- 06 11 00.F1 90x45mm Timber Wall Stud
- 06 11 00.F2 90x45mm Timber Bottom Plate
- 06 11 00.F3 90x45mm Timber Top Plate
- 06 16 00.A1 12mm Plywood Bracing Sheets Laid Vertically

**SHEET KEYNOTES**

- 91 Fix with 2.8mmØ x 50 Flat Head Nails @150mm Ctrs to Sheet Edges, 300mm Ctrs Internally
- 92 Plywood Sheets Shown Beyond. Fix with 2.8mmØ x 50 Flat Head Nails @150mm Ctrs to Sheet Edges, 300mm Ctrs Internally

**GENERAL SHEET NOTES**

- 1:24
- C3 Wall Type 9
- C5 Wall Type 9
- W11 08.P1
- W11 08.P2
- W11 08.P3
- W11 08.P4
- W11 08.P5
- W11 08.P6
- W11 08.P7
- W11 08.P8
- W11 08.P9
- W11 08.P10

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REFERENCE KEYNOTES

03 33 19.A1 50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING)

06 11 00.C1 240X45MM LVL TRIMMING JOIST
06 11 00.C5 240X45MM TIMBER BLOCKING
06 11 00.C6 240X45MM LVL FLOOR JOIST
06 11 00.F6 90X45MM TIMBER BLOCKING
06 11 00.F7 90X90MM TIMBER EDGE BLOCK, NOTCHED AROUND PLYWOOD

SHEET KEYNOTES

GENERAL SHEET NOTES

1:24

A3
FLOOR TYPE 1 - PLAN

C1
FLOOR TYPE 1 - PLAN

C3
FLOOR TYPE 1

A1
FLOOR TYPE 1 - TRANSVERSE SECTION

A3
FLOOR TYPE 1 - LONGITUDINAL SECTION

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03 33 19.A1  50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING)

06 11 00.C1  240X45MM LVL TRIMMING JOIST

06 11 00.C5  240X45MM TIMBER BLOCKING

06 11 00.C6  240X45MM LVL FLOOR JOIST

97 FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS

GENERAL SHEET NOTES

FLOOR TYPE 2 - TRANSVERSE SECTION

FLOOR TYPE 2 - LONGITUDINAL SECTION
03 33 19.A1  50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING).

06 11 00.C1  240X45MM LVL TRIMMING JOIST
06 11 00.C5  240X45MM TIMBER BLOCKING
06 11 00.C6  240X45MM LVL FLOOR JOIST
06 11 00.D3  100X63MM LVL NOGS. 2 MULTI GRIPS EACH END CUT TO SHOWER FALLS (REFER ENGINEERS SKETCH DETAIL SK13 FOR FIXING)
06 11 00.F6  90X45MM TIMBER BLOCKING

REFERENCE KEYNOTES

FLOOR TYPE 4 - PLAN
FLOOR TYPE 4 - TRANSVERSE SECTION 1
FLOOR TYPE 4 - LONGITUDIONAL SECTION 1
FLOOR TYPE 4 - TRANSVERSE SECTION 2
FLOOR TYPE 4 - LONGITUDIONAL SECTION 2
03 33 19.A1 50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING).

06 11 00.C1 240X45MM LVL TRIMMING JOIST
06 11 00.C5 240X45MM TIMBER BLOCKING
06 11 00.C6 240X45MM LVL FLOOR JOIST
06 11 00.F6 90X45MM TIMBER BLOCKING
06 11 00.F7 90X90MM TIMBER EDGE BLOCK, NOTCHED AROUND PLYWOOD

97 FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS

GENERAL SHEET NOTES
1 : 24

B3
FLOOR TYPE 5 - PLAN

C1
FLOOR TYPE 5 - TRANSVERSE SECTION 1

C3
FLOOR TYPE 5 - LONGITUDIONAL SECTION 1

A1
FLOOR TYPE 5 - TRANSVERSE SECTION 2

A3
FLOOR TYPE 5 - LONGITUDIONAL SECTION 2

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1 ROOF TYPE 1
2 ROOF TYPE 2
3 ROOF TYPE 3
06 11 00.G2 45X45MM BLOCKING TIMBER

06 11 00.G5 45X45MM TIMBER PLYWOOD BOX BEAM BOTTOM CHORD

06 11 00.G6 45X45MM CONTINUOUS TIMBER

06 11 00.I1 63X45MM LVL PLYWOOD BOX BEAM TOP CHORD

06 11 00.I2 63X45MM LVL PLYWOOD BOX BEAM BOTTOM CHORD

06 16 00.A2 18MM PLYWOOD

06 16 00.A7 21MM PLYWOOD RIBS AT 400MM CENTRES. CNC CUT TO FALLS.

06 16 00.A11 12MM PLYWOOD LINING, TREATED AND PAINTED

06 20 13.B5 TIMBER PARAPET FURRING TO ACHIEVE PARAPET FALL

102 12MM OUTER PLYWOOD WEB OF ALL BOX BEAMS TO BE SUPPLIED LOOSE FOR CONSTRUCTION PHASE TWO

GENERAL SHEET NOTES

1:24

REFERENCE KEYNOTES

MARK DATE DESCRIPTION

SHEET KEYNOTES

1:24

D1 ROOF TYPE 1 PLAN

C1 ROOF TYPE 1 FRAMING PLAN

B1 ROOF TYPE 1 TRANSVERSE SECTION

A1 ROOF TYPE 1 TRANSVERSE SECTION END BOX BEAM

C4 ROOF TYPE 1 LONGITUDINAL SECTION BOX BEAM

B4 ROOF TYPE 1 LONGITUDINAL SECTION

A4 ROOF TYPE 1 LONGITUDINAL SECTION LVL BOX BEAM

PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 11 00.G2 45X45MM TIMBER PLYWOOD BOX BEAM TOP CHORD
06 11 00.G4 45X45MM TIMBER PLYWOOD BOX BEAM TOP CHORD
06 11 00.G5 45X45MM TIMBER PLYWOOD BOX BEAM BOTTOM CHORD
06 11 00.G6 45X45MM CONTINUOUS TIMBER
06 11 00.D10 360X87MM PLYWOOD BOXBEAM: 63X45MM LVL TOP AND BOTTOM CHORDS. 63X100MM LVL STIFFENERS @ 1200MM CENTRES. 12MM PLYWOOD WEBS.

SHEET KEYNOTES

102 12MM OUTER PLYWOOD WEB OF ALL BOXBEAMS TO BE SUPPLIED LOOSE FOR CONSTRUCTION PHASE TWO

GENERAL SHEET NOTES

1 : 24

C1
ROOF TYPE 3 FRAMING PLAN

C4
ROOF TYPE 3 PLAN

B1
ROOF TYPE 3 TRANSVERSE SECTION

B4
ROOF TYPE 3 LONGITUDINAL SECTION

A1
ROOF TYPE 3 TRANSVERSE SECTION END BOX BEAM

A4
ROOF TYPE 3 LONGITUDINAL SECTION LVL BOX BEAM
05 50 00.L13 STRUCTURAL STEEL SUPPORT BRACKETS
06 11 00.A1 75X19MM CEDAR SLATS AT 100MM CENTRES
FIXED TO 65X35MM BATTENS.
CONSTRUCTED IN PANELISED SYSTEM FOR
ONSITE ASSEMBLY.

06 18 00.A1 318X90MM GLUE-LAMINATED TIMBER BEAM
SPANNING BETWEEN COLUMNS, TAPERING
TO 135X90 @ CANTILEVERED ENDS. REFER
FABRICATION DRAWINGS.

06 18 00.A2 135X42MM GLULAM GL8 RAFTERS AT 750MM
NOM. CENTRES SPANNING FULL LENGTH OF
CANOPY, TAPERING TO 70X42MM @
CANTILEVERED END. REFER FABRICATION
DRAWINGS.
GENERAL SHEET NOTES

REFERENCE KEYNOTES

06 11 00.A1 75X19MM CEDAR SLATS AT 100MM CENTRES
FIXED TO 65X35MM BATTENS. CONSTRUCTED IN PANELISED SYSTEM FOR
ONSITE ASSEMBLY.

06 11 00.A2 90 X 45MM TIMBER SUPPORT STUD

06 18 00.A1 318X90MM GLUE-LAMINATED TIMBER BEAM
SPANNING BETWEEN COLUMNS, TAPERING
TO 135X90 @ CANTILEVERED ENDS. REFER
FABRICATION DRAWINGS.

06 18 00.A2 135X42MM GLULAM GL8 RAFTERS AT 750MM
NOM. CENTRES SPANNING FULL LENGTH OF
CANOPY, TAPERING TO 70X42MM @
CANTILEVERED END. REFER FABRICATION
DRAWINGS.

06 18 00.A3 90X180MM GLULAM GL10 COLUMN. REFER
FABRICATION DRAWINGS.

SHEET KEYNOTES

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39X65 NOTCHED CEDAR BATTEN
REFER A-484 FOR CUTTING SCHEDULE

65X19MM CEDAR SLATS @ 100 CNTRS – REFER A-484 FOR FIXING DETAILS

"B04" DESIGNATES NOTCHED CEDAR BATTEN TYPE AS PER CUTTING SCHEDULE A-484

NB: SLAT PANELS ARE SUPPORTED ABOVE BY 42 X 135MM GLULAM RAFTERS

"B02" DESIGNATES NOTCHED CEDAR BATTEN TYPE AS PER CUTTING SCHEDULE A-484
- 39X90MM CEDAR STUD
- 39X65MM NOTCHED CEDAR BATTENS
- REFER A-485 FOR CUTTING SCHEDULE

B06 DESIGNATES "NOTCHED CEDAR BATTEN TYPE" AS PER CUTTING SCHEDULE A-485.

- 65X19MM CEDAR SLATS - REFER A-485 FOR FIXING DETAILS. SEE BELOW FOR CUTTING SCHEDULE.
MECHANICAL EQUIPMENT SHOWN INDICATIVELY ONLY.
REFER MECHANICAL, PLUMBING, ELECTRICAL,
TELECOMMUNICATIONS AND FIRE PROTECTION
DRAWING SETS FOR DETAIL.

A1 SERVICES SHED ISOMETRIC

A2

A3

A4

A5

A6

A7

1:24

SERVICES SHED PLANS

A-490
### GENERAL SHEET NOTES

- **C1**: BULKHEAD SECTION - MODULE 3
  - **A1**: SECTION OF BULKHEAD THROUGH SHEAR WALL

### SHEET KEYNOTES
- **169**: Designation openings in transverse shear walls for Ducting.
- **216**: Data cables bundled together running to each module.
- **271**: 06 40 23 A1 83x12mm horizontal tongue & groove Rimu timber board interior lining.
- **218**: 200mm basket trays hung from ceiling with suspension bracket.
- **217**: 200mm unistrut hung from roof structure.
- **219**: Organiser supplied data cable.

### REFERENCE KEYNOTES
- **06 40 23 A1**: 06 40 23 A1 83x12mm horizontal tongue & groove Rimu timber board interior lining.
- **21 13 13 A5**: 28mm Hep20 Polybutylene main branch piping in bulkhead.
- **23 31 16 A1**: Premier foamboard ducting.
- **26 05 19 A1**: 25 core, 2.5mm2 (AWG 14) OFLEX Classic 130H multicore cable.

### Sheet Title
- **SN-493**
- **A-493**

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**NOTES**

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**FIRST LIGHT**

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**Lot Number**

- **11-01-11**

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**Mark Date**

- **08/13/2011**
- **08:25:08 AM**
MODULES 1 & 2 SERVICES CONNECTIONS
TYPICAL MODULE PLAN DETAILS

MODULE CORNER PLAN

SHED CORNER PLAN

MODULE TO SHED WALL PLAN

SHED DOOR JAMB PLAN

REFERENCE KEYNOTES

- 05 50 00.A14 CLADDING WALL CHANNEL TYPE C08
- 06 11 00.C12 240X45MM LVL WALL STUD AT MODULE EDGE
- 06 11 00.F1 90X45MM TIMBER WALL STUD
- 06 11 10.A2 06 16 00.A1 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES
- 06 16 00.A15 12MM PLYWOOD ON 25MM CAVITY
- 06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.
- 06 26 13.A2 PRE-FORMED EXTERNAL CEDAR CORNER COVERBOARD SECURED TO CLADDING BY STEEL SPRING CLIP AND SCREW FIXING
- 06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.
- 06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS
- 06 40 23.A6 REMOVABLE COVER BOARD SCREW FIXED OVER MODULE JOIN
- 06 40 23.A7 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE HORIZONTAL TIMBER BOARD
- 06 40 23.A12 83X12MM VERTICAL TONGUE & GROOVE TIMBER BOARD INTERIOR LINNING. STAINED - RESENE WATERBOURNE COLOURWOOD 'WALNUT'
- 07 21 16.A1 WOOL INSULATION BATTS
- 07 26 00.A1 PROCLIMA VAPOUR CHECK MEMBRANE
- 08 14 00.A3 SOLID TIMBER DOOR TO SERVICES SHED
- 08 20 01.A1 EX 40X50MM TIMBER REVEAL (MIMICS WINDOW JAMB DETAIL)

SHEET KEYNOTES

- 31 INSTALL 2 X PF RODS BETWEEN MODULE JOINTS
- 103 ALL CHANNELS CLIP FIXED TO ALUMINIUM SUPPORTS ON TIMBER CAVITY BATTENS
- 104 INSTALL HEAVY DUTY FLASHING TAPE OVER MODULE CORNER
- 106 INSTALL HEAVY DUTY FLASHING TAPE OVER VERTICAL PLYWOOD JOIN
- 107 INSTALL HEAVY DUTY FLASHING TAPE OVER TIMBER CAVITY BATTENS AT MODULE JOIN
- 108 INSTALL 2X RODS TO MODULE EDGE
- 110 12MM PLYWOOD SHEETS LAID VERTICALLY WITH PROPRIETY 'H' FLASHING AT HORIZONTAL JOINT. FLASHING TAPE TO ALL PLYWOOD VERTICAL JOINS
- 111 INSTALL HEAVY DUTY, 70MM HINGE OPEN DOOR POSITION SHOWN DOTTED (FULL OPENING REQUIRED FOR EXHIBIT)
- 177 LINE OF 70X45MM HORIZONTAL TIMBERS AT 650MM MAX CENTRES BLOCKED OFF TIMBER STUDS AT MID MODULE

GENERAL SHEET NOTES

- MARK DATE DESCRIPTION PRODUCED BY AN AUTODESK STUDENT PRODUCT
REFERENCE KEYNOTES

03 33 19.A1 50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING)

05 12 00.L4 48MM STANDARD SCAFFOLD POLE

06 11 00.B9 140X45MM TIMBER STUD

06 11 00.C6 240X45MM LVL FLOOR JOIST

06 11 00.C7 240X45MM TIMBER TOP PLATE

06 11 00.F1 90X45MM TIMBER WALL STUD

06 11 00.G2 45X45MM BLOCKING TIMBER

06 11 00.G6 45X45MM CONTINUOUS TIMBER

06 15 13.A1 DECKING TIMBER

06 16 00.A2 18MM PLYWOOD

06 16 00.A6 21MM PLYWOOD BOTTOM PLATE

06 16 00.A11 12MM PLYWOOD LINING, TREATED AND PAINTED

06 16 00.A12 12MM PLYWOOD LINING ON 45X25 TIMBER BATTENS

06 22 00.A2 WASHING MACHINE CABINET

06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.

06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS

07 21 16.A1 WOOL INSULATION BATTS

07 26 00.A1 PROCLIMA VAPOUR CHECK MEMBRANE

07 58 00.A1 BUTYNOL ROOFING MEMBRANE ON PLYWOOD SUBSTRATE. 1.5° FALL TO ROOF.

08 14 00.A3 SOLID TIMBER DOOR TO SERVICES SHED

08 14 00.A4 VENTILATED TIMBER DOOR TO SERVICES SHED

12 05 01.A4 CUSTOM BED UNIT BY OTHERS

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT

SHED SECTION DETAILS

A-512
**Reference Keynotes**

- **03 33 19.A1**: 50mm Flexus Engineered Cementitious Composite Shear Connectors with 10mm ArDEX Pandomo K1 Leveling Compound. Concrete fixed with Composite Floor Shear Connectors to Timber Joists. Refer Engineers Sketch Detail for fixing.

- **06 11 00.B2**: 70x45mm Timber Stud
- **06 11 00.B3**: 70x45mm Horizontal Timber
- **06 11 00.B5**: 70x45mm Timber Bottom Plate
- **06 11 00.C6**: 240x45mm LVL Floor Joist
- **06 11 00.F6**: 90x45mm Timber Blocking
- **06 11 00.G2**: 45x45mm Blocking Timber
- **06 16 00.A1**: 12mm Plywood Bracing Sheets laid vertically
- **06 16 00.A10**: 12mm Ecoply Lining Nail Fixed at 75mm centres
- **06 16 00.A11**: 12mm Plywood Lining, Treated and Painted
- **06 16 00.C1**: Cement Fibre Board
- **06 22 00.A5**: Bathroom Cabinet with 1150mm LED Bar mounted above and below. Refer Detail Drawings
- **06 22 00.K46**: Kitchen Module East
- **06 26 13.A1**: Panelized Removable Horizontal Shiplap Cedar Weatherboards on 60mm Cavity, fixed to 735mm Max CRS to Aluminium Cavity Battens.
- **06 40 23.A1**: 83x12mm Horizontal Tongue & Groove Rimu Timber Board Interior Lining.
- **07 21 16.A1**: Wool Insulation Battens
- **09 30 00.A1**: 14 Module Boundary

**Sheet Notes**

- **C1**: Shower Wall Window Plan
- **C4**: Shower Wall Detail Section
- **A1**: Shower Floor Section
BATHROOM & LAUNDRY WINDOW SILL

REFERENCE KEYNOTES

06 16 00.A4 12MM PLYWOOD
06 20 13.C4 35MM REVEALS TO WINDOW - CUT TO FIT ON SITE
06 20 13.C8 REMOVEABLE 190 X 25MM TIMBER SILL
06 20 13.C9 REMOVABLE 18 X 130MM TIMBER FACING FIXED TO REMOVABLE WEATHERBOARD PANELS
06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.
06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS
07 21 16.A1 WOOL INSULATION BATTS
07 26 00.A1 PROCLIMA VAPOUR CHECK MEMBRANE
07 62 00.A7 FACTORY PAINTED STEEL SILL FLASHING. SEAL TO WINDOW FRAME
08 52 00.A4 TOP HINGED TIMBER WINDOW, 36MM TRIPPLE GLAZED 'ECOWINDOWS' STANDARD FIXED PROFILE

GENERAL SHEET NOTES

10 TIMBER BLOCKING WHERE REQUIRED
35 LINE OF 140X45MM TIMBER STUDS AT 735MM MAX CENTRES
110 12MM PLYWOOD SHEETS LAID VERTICALLY WITH PROPRIETY 'H' FLASHING AT HORIZONTAL JOINT. FLASHING TAPE TO ALL PLYWOOD VERTICAL JOINS

WINDOW SILL DETAIL

A-532
**Bifold & Canopy Details**

**A1** Bi-fold & Fixed Window Jamb Plan

**A2** Bi-fold Jamb Plan

**A3** Awning to Canopy Plan

**A4** Awning to Canopy Section

**Reference Keynotes**

- 05 05 23.A3: 120mm Coach Screw Fixings @ Mid Height of Wall
- 05 12 00.B1: 50 x 50mm Vertical Steel Angle Support Bracket
- 05 12 00.B2: 50 x 50mm Steel Angle to Support Canopy
- 05 50 00.A23: 80 x 40 x 6 Aluminium RHS
- 06 11 00.A2: 90 x 45mm Timber Support Stud
- 06 11 00.C2: 240 x 45mm LVL Wall Stud
- 06 11 00.D8: 90 x 45mm Insulated Timber and Plywood Box Post
- 06 11 00.G8: 45 x 25mm Internal Timber Cavity Battens
- 06 16 00.A3: 21mm Plywood
- 06 20 13.A1: 65 x 19mm Cedar Slats @ 100mm Centres
- 06 20 13.A3: 60 x 45mm Horizontal Cedar Support Batten at 562 Max Centres
- 06 20 13.A4: 75 x 19mm Vertical Cedar Slats at 100mm Centres Fixed to 65 x 45mm Horizontal Battens
- 06 20 13.A6: 65 x 39mm Horizontal Cedar Batten (Notched)
- 06 20 13.C4: 35mm Reveals to Window - Cut to Fit on Site
- 06 20 13.C6: Removable 18 x 60mm Timber Facing Fixed to Removable Weatherboard Panels
- 06 20 13.C7: Removable 160 x 25mm Timber Reveal Screw Fixed, 20mm Cover to Cladding Panel
- 06 20 13.C10: 25mm Reveals to Window - Cut to Fit on Site
- 06 26 13.A1: Panelized Removable Horizontal Shiplap Cedar Weatherboards on 60mm Cavity, Fixed T 735mm Max CSR to Aluminium Cavity Battens
- 06 40 23.A2: 135 x 19mm Whitewashed Tongue & Groove Profile Vertical Timber Board on 45 x 25mm Timber Battens
- 06 40 23.A6: Removable Cover Board Screw Fixed over Module Joint
- 06 40 23.A10: Ex 57 x 18mm Interior Timber Trim to Openings
- 07 26 00.A1: Proclima Vapour Check Membrane
- 08 14 00.A1: Triple Glazed Exterior Bifold Door
- 08 52 00.A2: Fixed Timber Window, 36mm Triple Glazed 'Ecowindows' Standard Fixed Profile
- 08 80 00.A2: 6mm Toughened Glass Splashback Frosted and Back Painted on 6mm Compressed Fibre Cement Sheet. Lap Over Stainless Uturn
- 12 21 00.A2: Brush Attached to Inside of Jamb to Prevent Air Flow Around Blind When Pulled Down
- 22 14 13.A1: 55 x 75mm Rectangular Factory Painted Steel Downpipe

**Sheet Notes**

1:4

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<thead>
<tr>
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<tr>
<td>25</td>
<td>12mm plywood sheets laid vertically &amp; horizontal to prevent air flow around blind</td>
</tr>
<tr>
<td>31</td>
<td>Factory Painted Stud Flashing</td>
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</tbody>
</table>
**REFERENCE KEYNOTES**

- **06 11 00.D4** 287 x 93 mm continuous lvl beam
- **06 11 00.D10** 360 x 87 mm plywood box beam: 63 x 45 mm lvl top and bottom chords, 63 x 100 mm lvl stiffeners @ 1200 mm centres, 12 mm plywood webs.
- **06 11 00.E1** 90 x 45 mm timber
- **06 16 00.A2** 18 mm plywood
- **06 16 00.A3** 21 mm plywood
- **06 16 00.A11** 12 mm plywood lining, treated and painted
- **06 16 00.A16** form 12 mm plywood roof upstand with solid timber blocking and apply wpm. Assembly is pre-membraned and slotted over lvl beam on site.
- **06 18 00.A1** 318 x 90 mm glue-laminated timber beam spanning between columns, tapering to 135 x 90 @ cantilevered ends. Refer fabrication drawings.
- **06 20 13.A3** 60 x 45 mm horizontal cedar support batten at 562 max centres
- **06 20 13.A4** 75 x 19 mm vertical cedar slats at 100 mm centres fixed to 65 x 45 mm horizontal battens
- **06 20 13.A6** 65 x 39 mm horizontal cedar batten (notched)
- **06 40 23.B1** 135 x 19 mm whitewashed tongue & groove profile pine timber board to ceiling aligned to direction indicated
- **06 40 23.B10** removable timber facing cut to fall of skylight
- **07 21 16.A1** wool insulation batts
- **07 26 00.A1** proclima vapour check membrane
- **07 58 00.A1** butynol roofing membrane on plywood substrate. 1.5° fall to roof.
- **07 62 00.B1** removable factory painted flashing tapered to skylight fall.
- **07 62 00.B2** metal parapet cap flashing 5° fall with continuous clip fixing
- **08 80 00.A3** triple glazed three part custom skylight structurally sealed to ms angle frames. 42 mm, 3° fall

**GENERAL SHEET NOTES**

- **1:4** 8/13/2011 8:26:19 AM
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**SKYLIGHT JAMB DETAILS**

- **A1** skylight perimeter mid point section
- **A4** skylight perimeter high point section
- **A8** skylight perimeter low point section
- **C1** roof edge over kitchen section

**SKYLIGHT KEYNOTES**

- **31** install 2 x pf rods between module joints
- **140** services bulkhead
- **477** section cuts through timber framing and bi-fold section - not shown for clarity
- **478** section cuts through insulated timber wall - not shown for clarity
- **479** welded angle frame to skylight occurs to inside edge of lintel (shown dotted behind)

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- **04/16/2012** 1:10 PM
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**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

- 05 50 00.C03 50 X 50 X 3MM STAINLESS STEEL ANGLE BRACKET (40MM WIDTH). ENGINEER TO SPECIFY FIXINGS.
- 06 18 00.A2 135X42MM GLULAM GL8 RAFTERS AT 750MM NOM. CENTRES SPANNING FULL LENGTH OF CANOPY, TAPERING TO 70X42MM @ CANTILEVERED END. REFER FABRICATION DRAWINGS.
- 06 20 13.A1 65X19MM CEDAR SLATS @100MM CENTRES.
- 06 20 13.A3 60X45MM HORIZONTAL CEDAR SUPPORT BATTEN AT 562 MAX CENTRES.

**SHEET KEYNOTES**

- 0
- 1/2'
- 1'
- 2'

**CANOPY BATTEN CUTTING SCHEDULE**

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<th>Lot Number</th>
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<tr>
<td>A1</td>
<td>CANOPY BATTEN FIXING DETAIL SECTION</td>
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<tr>
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<td>CANOPY BATTEN BATTEN FIXING DETAIL SECTION</td>
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</tr>
<tr>
<td>A6</td>
<td>CANOPY BATTEN BATTEN FIXING DETAIL SECTION</td>
</tr>
</tbody>
</table>

**CANOPY BATENS**
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

- 06 20 13.A5 19X65MM VERTICAL CEDAR SLAT
- 06 20 13.A9 39X65MM NOTCHED CEDAR BATTEN
- 06 20 13.A10 39X90MM CEDAR STUD

**SHEET KEYNOTES**

- A1 VERTICAL SLAT BATTENS
- B1 CANOPY BATTEN FIXING DETAIL - PLAN

**CANOPY BATTENS VERTICAL SLATS**

**LOT NUMBER**

**DRAWN BY**

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**FIRST LIGHT**

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GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES

1. Panel coverboards fixed in place of parapet install to secure top panel and prevent uplift. Parapet flashing to be fixed over coverboard.

2. North-east face of building incorporates panel series 6 & 7 on top two layers to accommodate windows.

3. Cladding panels assembled on site from bottom to top, with each subsequent panel placed over the one below, creating a seamless weatherboard cladding.

4. Panel series 1 through 5 used on all walls except north-east face.


PRODUCED BY AN AUTODESK STUDENT PRODUCT
**REFERENCE KEYNOTES**

- **05 50 00.A2** 63.5X31.75X4.763MM UA ALUMINIUM CHANNEL
- **05 50 00.A4** 550MM ALUMINIUM PANEL BACKER
- **06 11 00.F5** 35X25MM INTERMEDIATE TIMBER PANEL BACKER
- **06 26 13.A1** PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.

**SHEET KEYNOTES**

122 ALL ALUMINIUM PANEL BACKERS TO LINE UP WITH WALL CHANNELS
123 TOP WEATHERBOARD REMOVED AT WINDOW EDGE. ALUMINIUM ANGLE REDUCED FROM 425MM TO 260MM IN GREYED SECTION
447 CENTRE OF ALUMINIUM WALL CHANNELS INDICATED BY DIMENSIONS FROM GRIDLINES
449 THESE ALUMINIUM WALL CHANNELS HAVE PLASTIC LOCKING INSERTS INSTALLED ON ALL ALUMINIUM RODS
450 END CHANNEL OFFSET TO AVOID CONFLICT WITH FOUNDATION SYSTEM
452 C06 ALUMINIUM WALL CHANNELS TO BE REMOVABLE TO FACILITATE MODULE ASSEMBLY

**GENERAL SHEET NOTES**

- CLADDING PANEL LENGTHS SPECIFIED TO ALLOW EXPANSION GAP AT BUILDING CORNERS & WINDOW EDGE
- ALUMINIUM WALL CHANNELS FIXED TO WALL STRUCTURE

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- MATT CAPICCIOTTI
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- NIKKI CHAN

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**CLIENT:**

- U.S. DEPARTMENT OF ENERGY
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**CONSULTANTS:**

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- DUNNING THORNTON CONSULTANTS LTD
- LEAP AUSTRALASIA LTD
- SOUTHERN PERSPECTIVES / SOLAR CITY
  - VICTORIA UNIVERSITY
REFERENCE KEYNOTES

- 05 50 00.A2 63.5X31.75X4.763MM UA ALUMINIUM CHANNEL
- 06 11 00.F5 35X25MM INTERMEDIATE TIMBER PANEL BACKER
- 06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.

SHEET KEYNOTES

- 122 ALL ALUMINIUM PANEL BACKERS TO LINE UP WITH WALL CHANNELS
- 123 TOP WEATHERBOARD REMOVED AT WINDOW EDGE. ALUMINIUM ANGLE REDUCED FROM 425MM TO 260MM IN GREYED SECTION
- 185 TOP TWO WEATHERBOARDS REMOVED AT WINDOW EDGE. ALUMINIUM ANGLE REDUCED FROM 425MM TO 260MM IN GREYED SECTION
- 447 CENTRE OF ALUMINIUM WALL CHANNELS INDICATED BY DIMENSIONS FROM GRIDLINES
- 449 THESE ALUMINIUM WALL CHANNELS HAVE PLASTIC LOCKING INSERTS INSTALLED ON ALL ALUMINIUM RODS

GENERAL SHEET NOTES

- CLADDING PANEL LENGTHS SPECIFIED TO ALLOW EXPANSION GAP AT BUILDING CORNERS & WINDOW EDGE
- ALUMINIUM WALL CHANNELS FIXED TO WALL STRUCTURE

ALUMINIUM PANEL BACKER BOTTOM CUT
ALUMINIUM PANEL BACKER TOP CUT

D3 LOCKING CHANNEL - PLAN
D5 PARAPET COVERBOARD - SECTION

A1 CLADDING PANEL ANGLE
A3 STANDARD CHANNEL - PLAN
A5 CORNER COVERBOARD - PLAN

REFERENCE KEYNOTES
05 05 23.A4 1 NO. 10MM DIAMETER X 220MM SPAX SCREW - CSK HEAD
05 50 00.A3 50.8X34.92X3.175MM UA ALUMINIUM CHANNEL
05 50 00.A14 CLADDING WALL CHANNEL TYPE C08
05 50 00.L12 STEEL SPRING CLIP FOR SECURING TO CLADDING
06 11 00.B2 70X45MM TIMBER STUD
06 11 00.F1 90X45MM TIMBER WALL STUD
06 16 00.A1 12MM PLYWOOD BRACING SHEETS LAID VERTICALLY
06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.
06 26 13.A4 PARAPET COVERBOARD

SHEET KEYNOTES
125 ALL CHANNELS FIXED TO WALL STRUCTURE

GENERAL SHEET NOTES

FIRST LIGHT
A-902

A1  VIEW OF BATHROOM

A5  VIEW OF LOUNGE JOINERY UNIT

B3  VIEW OF BEDROOM

D1  VIEW OF KITCHEN & DINING ROOM

D5  VIEW OF STUDY UNIT

D3  VIEW OF BATHROOM

A1  VIEW OF BATHROOM

D1  VIEW OF KITCHEN & DINING ROOM

D5  VIEW OF STUDY UNIT

D3  VIEW OF BATHROOM

A1  VIEW OF BATHROOM

D1  VIEW OF KITCHEN & DINING ROOM

D5  VIEW OF STUDY UNIT

D3  VIEW OF BATHROOM

A1  VIEW OF BATHROOM

D1  VIEW OF KITCHEN & DINING ROOM

D5  VIEW OF STUDY UNIT

D3  VIEW OF BATHROOM

A1  VIEW OF BATHROOM

D1  VIEW OF KITCHEN & DINING ROOM

D5  VIEW OF STUDY UNIT

D3  VIEW OF BATHROOM
REFERENCE KEYNOTES

06 22 00.A2 WASHING MACHINE CABINET
06 22 00.A3 HYDRONIC DRYING CUPBOARD
06 22 00.A6 WARDROBE / STORAGE UNIT
06 22 00.K6 KITCHEN MODULE WEST
06 22 00.K46 KITCHEN MODULE EAST
06 40 23.C2 ALUMINIUM CHANNEL AND 50 X 25 TIMBER REVEAL FITTED TO RECESS IN FLOOR BETWEEN MODULE JOINS
06 40 23.C3 90 X 21MM PANELISED PINE TONGUE AND GROOVE FLOORBOARDS
11 31 23 A6 FISHER & PAYKEL TOP LOADING WASHING MACHINE MODEL WA55T56GW. 1020H X 560W X 560D. REFER MANUFACTURERS INSTRUCTIONS FOR INSTALLATION DETAILS
12 05 01.A3 REMOVABLE SECTION OF WORKSTATION JOINERY UNIT
12 05 01.A4 CUSTOM BED UNIT BY OTHERS
12 05 01.A5 CUSTOM LOUNGE JOINERY UNIT. SEE RELEVANT DETAILS
12 05 01.B1 CONCRETE DINING TABLE. SEE RELEVANT SHEETS FOR DETAIL
26 27 26 B2 PDL 800 SERIES 10A 240V VERTICAL INTEGRALLY SWITCHED DOUBLE RECEPTACLE
REFERENCE KEYNOTES

03 33 19.A1 50MM FLEXUS ENGINEERED CEMENTITIOUS COMPOSITE CONCRETE FLOOR WITH 10MM ARDEX PANDOMO K1 LEVELLING COMPOUND. CONCRETE FIXED WITH COMPOSITE FLOOR SHEAR CONNECTORS TO TIMBER JOISTS (REFER ENGINEERS SKETCH DETAIL FOR FIXING)

06 22 00.A7 LIVING ROOM JOINERY - DOUBLE SOFA BED

06 22 00.A8 LIVING ROOM JOINERY - OTTOMAN

06 22 00.A10 LIVING ROOM JOINERY - BUNK BED. PLATFORM ALSO ACTS AS KIDS' TV VIEWING PLATFORM WHEN BIFOLD DOORS ARE OPEN

06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.

06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS

06 40 23.A10 EX 57X18MM INTERIOR TIMBER TRIM TO OPENINGS

06 40 23.B1 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE PINE TIMBER BOARD TO CEILING ALIGNED TO DIRECTION INDICATED

06 40 23.B2 150X19MM REMOVABLE WHITEWASHED TIMBER BOARD TO MODULE JOINS

06 40 23.B3 30X6 TIMBER TRIM TO WALL CEILING JUNCTION

06 40 23.B11 60X19 WHITEWASHED PINE ARCHITRAVES TO WINDOWS IN LIVING SPACES

08 20 01.A2 10MM TOP HUNG FLOOR TO CEILING TOUGHENED GLASS FACE-SLIDER. ACID ETCHED ON SOUTH FACE. DORMA AGILE 150 SLIDING DOOR SYSTEM

09 64 00.A1 3M X 1.3M PANELISED 20X140MM TIMBER FLOORING ON 12MM PLYWOOD (PLY = 200MM WIDE AT 400MM CENTRES) AND TIMBER PACKERS

12 05 01.B1 CONCRETE DINING TABLE. SEE RELEVANT SHEETS FOR DETAIL

12 05 01.B4 18MM PLYWOOD FRAMED LEG TO CONCRETE TABLE

23 09 33 A1 SCHNEIDER ELECTRIC MAGELIS HMI CONTROLLER

23 37 13 A1 600 X 600MM SUPPLY AIR LINEAR DIFFUSERS

23 37 13 A2 350 X 500MM RETURN AIR EGGCRATE GRILLE

23 37 13 A3 350 X 100MM RETURN AIR EGGCRATE GRILLE

26 51 00.A13 FEATURE PENDANT LIGHTING FIXTURE OVER DINING ROOM TABLE

SHEET KEYNOTES

1 : 24

INTERIOR ELEVATION - NORTH

INTERIOR ELEVATION - SOUTH
REFERENCE KEYNOTES

06 22 00.A1 BUNK
06 22 00.K1 BATHROOM
06 22 00.K4 BATHROOM CABINET WITH 1150MM LED BAR MOUNTED ABOVE AND BELOW. REFER DETAIL DRAWINGS
06 22 00.A2 WASHING MACHINE CABINET
06 22 00.A6 WARDROBE / STORAGE UNIT
06 22 00.A7 LIVING ROOM JOINERY - DOUBLE SOFA BED
06 22 00.A8 LIVING ROOM JOINERY - OTTOMAN
06 22 00.A9 LIVING ROOM JOINERY - BEDSIDE SHELVING/STORAGE UNIT. FIXED TO WALL AND CEILING STRUCTURE
06 22 00.A10 LIVING ROOM JOINERY - BUNK BED. PLATFORM ALSO ACTS AS KIDS' TV VIEWING PLATFORM WHEN BIFOLD DOORS ARE OPEN
06 22 00.A11 LIVING ROOM JOINERY - ABOVE BUNK SHELVING UNIT. PRE-ASSEMBLED AND TOP HUNG FROM CEILING STRUCTURE
06 22 00.A12 LIVING ROOM JOINERY - BIFOLD DOORS. TRACK GEAR FIXED ON-SITE. BOTTOM TRACK FIXED TO BUNK SHELVING UNIT, TOP TRACK TO CEILING.
06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.
06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS
06 40 23.A10 EX 57X18MM INTERIOR TIMBER TRIM TO OPENINGS
06 40 23.A12 83X12MM VERTICAL TONGUE & GROOVE TIMBER BOARD INTERIOR LINNING. STAINED - RESENE WATERBOURNE COLOURWOOD 'WALNUT'
06 40 23.B1 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE PINE TIMBER BOARD TO CEILING ALIGNED TO DIRECTION INDICATED
06 40 23.B3 30X6 TIMBER TRIM TO WALL CEILING JUNCTION
06 40 23.B11 60 X 19 WHITEWASHED PINE ARCHITRAVES TO WINDOWS IN LIVING SPACES
09 64 00.A1 3M X 1.3M PANELISED 20 X 140MM TIMBER TIMERS (300MM WIDE AT 400MM CENTRES) AND TIMBER PACKERS
22 41 00.A7 THREE PART MERCER STAINLESS STEEL SHOWER TRAY UNDER DUCKBOARD WATERPROOF IMMITATE JOIN.
22 41 00.A6 200 X 200MM ETCHLITE BACKPAINTED GLASS TILES OVER WPM ON 12MM COMPRESSED FIBRE CEMENT SHEET SUBSTRATE
03 33 19.A1 83X12MM VERTICAL TONGUE & GROOVE TIMBER BOARD INTERIOR LINNING TO OVERLAP INSIDE FACE OF PERMANENTLY INSTALLED CABINETRY BY 6MM

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PRODUCED BY AN AUTODESK STUDENT PRODUCT
GENERAL SHEET NOTES

1. ALL FRAMING TIMBER UNLESS OTHERWISE STATED
2. DIMENSIONS GIVEN TO THE CENTRE OF THE TIMBER FRAMING

REFERENCE KEYNOTES

SHEET KEYNOTES

1. FRAMING TO ALLOW FOR 600 X 100MM HVAC BRANCH AND GRILLE

GENERAL SHEET NOTES

1. ALL FRAMING TIMBER UNLESS OTHERWISE STATED
2. DIMENSIONS GIVEN TO THE CENTRE OF THE TIMBER FRAMING

REFERENCE KEYNOTES

SHEET KEYNOTES

1. FRAMING TO ALLOW FOR 600 X 100MM HVAC BRANCH AND GRILLE

GENERAL SHEET NOTES

1. ALL FRAMING TIMBER UNLESS OTHERWISE STATED
2. DIMENSIONS GIVEN TO THE CENTRE OF THE TIMBER FRAMING

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1. FRAMING TO ALLOW FOR 600 X 100MM HVAC BRANCH AND GRILLE
REFERENCE KEYNOTES

06 11 00.B2 70X45MM TIMBER STUD
06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES
06 22 20.A9 STAINLESS STEEL LAMINATED TO 36MM PLY BENCHTOP WITH 'WET EDGE' DETAILED FRONT EDGE - STAINLESS STEEL TO RETURN 50MM AT BACK EDGE
06 22 20.B3 24MM FULL HEIGHT MDF PANEL WITH RIMU VENEER TO BOTH SIDES AND RIMU EDGE TAPE
06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING
06 40 23.A10 EX 57X18MM INTERIOR TIMBER TRIM TO OPENINGS
06 40 23.B6 83X12MM HORIZONTAL TONGUE & GROOVE TIMBER BOARD INTERIOR LINNING PAINTED RESENE 'PEPPERMINT'
08 80 00.A2 6MM TOUGHENED GLASS SPLASHBACK FROSTED AND BACK PAINTED ON 6MM COMPRESSED FIBRE CEMENT SHEET. LAP OVER STAINLESS UPTURN.
11 31 13 A1 FISHER & PAYKEL FRIDGE FREEZER MODEL E331T
11 31 13 A4 FISHER & PAYKEL SLIMLINE INDUCTION HOB
11 31 13 A6 FISHER & PAYKEL RANGEHOOD MODEL HC60PCHTX1 OVERHEAD
12 05 01.B1 CONCRETE DINING TABLE. SEE RELEVANT SHEETS FOR DETAIL
22 41 00.A3 BENCHTOP MOUNTED METHVEN FUTURA KITCHEN MIXER TAP CENTRED ON SINK
22 41 00.A4 MERCER STAINLESS STEEL UNDERMOUNT SINK INVISIBLE WELD TO STAINLESS BENCHTOP
23 09 33 A1 SCHNEIDER ELECTRIC MAGELIS HMI CONTROLLER
26 27 26 B3 PDL 600 SLIMLINE SERIES DOUBLE HORIZONTAL POWER SOCKETS POSITIONED AS SHOWN
26 51 00.A1 6W RECESSED LED DOWNLIGHT

SHEET KEYNOTES

166 LINE OF OVERHEAD CABINETRY SHOWN ABOVE.
183 STAINLESS STEEL BENCH FOR SMALL APPLIANCES OVER FULL-EXTENSION DRAWERS
184 ROLLOUT JOINERY UNIT SHOWN DASHED STORED UNDER TABLE

GENERAL SHEET NOTES

0' 2' 4' 8'
### GENERAL SHEET NOTES

<table>
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<th>REFERENCE KEYNOTES</th>
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<tr>
<td>06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES</td>
</tr>
<tr>
<td>06 22 20.A4 MDF PODIUM CONSTRUCTED TO ALIGN FRIDGE WITH ADJACENT TOEKICK. PRESSED ALUMINIUM TO FRONT AND TOP FACES</td>
</tr>
<tr>
<td>06 22 20.A6 TOP HUNG 18MM 'RIMU HEART' LAMINATED MDF DOORS TO CABINETRY - HETTICH FLAP FITTING LOW ADVANCED HK HARDWARE</td>
</tr>
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</tr>
<tr>
<td>11 31 13 A5 FISHER &amp; PAYKEL COMPACT OVEN OB60NDEX1</td>
</tr>
</tbody>
</table>

### SHEET KEYNOTES

<table>
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<tr>
<th>MARK DATE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 TIMBER BLOCKING WHERE REQUIRED</td>
</tr>
<tr>
<td>409 RECEPTACLES FOR OVEN AND DISHWASHER INSTALLED ON THIS WALL. POWER SWITCH LOCATED ABOVE BENCH</td>
</tr>
</tbody>
</table>

### SHEET TITLE

**KITCHEN SECTION 03**
REFERENCE KEYNOTES

05 05 23.A5 M16 STAINLESS STEEL BOLT
05 05 23.A6 STAINLESS LOCKING NUTS WELDED TO PLATE
12 05 01.B1 300MM X 15MM RIMU VENEERED PLYWOOD INSERT
12 05 01.B2 GLASS REINFORCED CONCRETE WITH POLYSTYRENE CORE TO FORM TOP AND SIDE OF TABLE
12 05 01.B3 300MM X 15MM RIMU VENEERED PLYWOOD INSERT
12 05 01.B4 18MM PLYWOOD FRAMED LEG TO CONCRETE TABLE
12 05 01.B6 TABLE LEG FINISHED IN 83 X 12 RIMU TONGUE AND GROOVE BOARDS
12 05 01.B9 SLIDE OUT DRAWER AND WORK SURFACE UNIT
12 05 01.B10 STAINLESS STEEL PLATE
12 05 01.B11 50MM PLYWOOD LEG END

SHEET KEYNOTES

GENERAL SHEET NOTES

1 : 2
A5

PRODUCED BY AN AUTODESK STUDENT PRODUCT
**GENERAL SHEET NOTES**

**REFERENCE KEYNOTES**

- 06 22 20.A3 HETTICH INNOTECH SOFT CLOSE DRAWERS ON QUADRO FULL EXTENSION RUNNERS
- 12 05 01.B2 GLASS REINFORCED CONCRETE WITH POLYSTYRENE CORE TO FORM TOP AND SIDE OF TABLE
- 12 05 01.B7 RIMU VENEERED MDF CARCASS AND DRAWERS WITH RIMU EDGE TAPE TO EXPOSED EDGES
- 12 05 01.B8 25 X 25 X 2MM ALUMINIUM SHS
- 12 05 01.B12 RECESSED RIMU VENEERED TOE KICK

**SHEET KEYNOTES**

**DRAWER UNIT PLAN**

**DRAWER UNIT FRONT**

**CONCRETE TOP PLAN**

**CONCRETE TOP FRONT ELEVATION**

**CONCRETE TOP SIDE ELEVATION**

**DINING TABLE - DRAWER UNIT SIDE ELEVATION**

**DINING TABLE - DETAILS**

**SHEET TITLE**

**LOT NUMBER**

**DRAWN BY**

**CHECKED BY**

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**CLIENT**

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**TEAM NAME**

**ADDRESS**

**CONTACT**

**TENNENT + BROWN ARCHITECTS**

**CONSULTANTS**

**DUNNING THORNTON CONSULTANTS LTD**

**LEAP AUSTRALASIA LTD**

**SOUTHERN PERSPECTIVES / SOLAR CITY**

**FIRST LIGHT**

**ELINUTTALL@GMAIL.COM**

**WWW.FIRSTLIGHTHOUSE.AC.NZ**

**139 VIVIAN STREET**

**TE ARO, WELLINGTON**

**NEWZEALAND**

**I-443 DINING TABLE - DETAIL**

**MARK DATE DESCRIPTION**

**CONCRETE TOP FRONT ELEVATION**

**CONCRETE TOP PLAN**

**CONCRETE TOP SIDE ELEVATION**

**DRAWER UNIT FRONT**

**DRAWER UNIT PLAN**

**DINING TABLE - DRAWER UNIT SIDE ELEVATION**

**DINING TABLE - DETAILS**

**PRODUCED BY AN AUTODESK STUDENT PRODUCT**
**REFERENCE KEYNOTES**

- 06 22 00.A5 BATHROOM CABINET WITH 1150MM LED BAR MOUNTED ABOVE AND BELOW. REFER DETAIL DRAWINGS.
- 06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.
- 09 21 00.A2 200 X 200MM ETCHLITE BACKPAINTED GLASS TILES OVER WPM ON 12MM COMPRESSED FIBRE CEMENT SHEET SUBSTRATE.
- 22 41 00.A1 380 X 380 X 130 MM TRENZ SEMI RECESSED BASIN. MODEL 4148-C.
- 22 41 00.A2 IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED 'WATERMARK' DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS.
- 22 41 00.A6 THREE PART MERCER STAINLESS STEEL SHOWER TRAY UNDER DUCKBOARD SYSTEM. SHOWER TRAY CROSSES AND WATERPROOFS MODULE JOIN. REMOVEABLE HARDWOOD TIMBER DUCKBOARDS SIT OVER TRAY.
- 22 41 00.A7 METHVEN KIRI SATINJET SHOWER SYSTEM WITH OVERHEAD RAINSHOWER COLUMN.
- 22 41 00.A8 METHVEN FUTURA FT SHOWER MIXER TAP.

**GENERAL SHEET NOTES**

- 140 SERVICES BULKHEAD.
- 234 WC NOT CONNECTED TO MAIN DRAIN AND CAPPED FOR PURPOSES OF THE COMPETITION.
- 256 WALL BUILT OUT 90MM TO ACCOMODATE PIPEWORK & IN-WALL CISTERN UP TO LEVEL OF CABINETRY.
- 404 INSULATION SHOWN INDICATIVE ONLY. REFER DETAIL DRAWINGS AND SPECIFICATION FOR LOCATION, EXTENT AND TYPES.
- 407 REMOVEABLE RIMU T&G CEILING PANELS TO ALL CEILINGS THROUGH BUILDING CORE - REFER INTERIOR DRAWING SET FOR DETAILS AND SETOUT.
REFERENCE KEYNOTES

06 22 00.A2 WASHING MACHINE CABINET
06 22 00.A5 BATHROOM CABINET WITH 1150MM LED BAR MOUNTED ABOVE AND BELOW. REFER DETAIL DRAWINGS
06 22 00.A6 WARDROBE / STORAGE UNIT
08 52 00.B6 09 21 00.A2 200 X 200MM ETCHLITE BACKPAINTED GLASS TILES OVER WPM ON 12MM COMPRESSED FIBRE CEMENT SHEET SUBSTRATE
09 30 00.A1 11 31 23 A6 FISHER & PAYKEL TOP LOADING WASHING MACHINE MODEL WA55T56GW. 1020H X 560W X 560D. REFER MANUFACTURERS INSTRUCTIONS FOR INSTALLATION DETAILS
22 41 00.A2 IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED 'WATERMARK' DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS
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256 WALL BUILT OUT 90MM TO ACCOMMODATE PIPEWORK & IN-WALL CISTERN UP TO LEVEL OF CABINETRY
404 INSULATION SHOWN INDICATIVE ONLY. REFER DETAIL DRAWINGS AND SPECIFICATION FOR LOCATION, EXTENT AND TYPES
407 REMOVEABLE RIMU T&G CEILING PANELS TO ALL CEILINGS THROUGH BUILDING CORE - REFER INTERIOR DRAWING SET FOR DETAILS AND SETOUT
408 REMOVEABLE SECTION OF WALL TILES AT MODULE JOIN. REFER DRAWING A-513 FOR CONSTRUCTION DETAILS

GENERAL SHEET NOTES

PRODUCED BY AUTODESK STUDENT PRODUCT

A1 BATHROOM & LINEN SECTION - NORTH
BATHROOM & LAUNDRY SECTION - SOUTH

REFERENCE KEYNOTES

06 22 00.A5 BATHROOM CABINET WITH 1150MM LED BAR MOUNTED ABOVE AND BELOW. REFER DETAIL DRAWINGS

06 22 00.A6 WARDROBE / STORAGE UNIT

06 22 00.K21 HETTICH PRO DECOR HANDLE 045637 TOWEL RAIL TO SIDE OF VANITY UNIT

06 22 00.K36 VANITY UNIT FIXED TO WALL FRAMING AT SOUTH AND NW EDGE WITH 50 X 10MM STEEL ANGLES

06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.

08 20 01.A2 10MM TOP HUNG FLOOR TO CEILING TOUGHENED GLASS FACE-SLIDER. ACID ETCHED ON SOUTH FACE. DORMA AGILE 150 SLIDING DOOR SYSTEM

09 30 00.A1 22 41 00.A1 380 X 380 X 130 MM TRENZ SEMI RECESSED BASIN. MODEL 4148-C

22 41 00.A5 METHVEN FUTURA BASIN MIXER

22 41 00.A6 THREE PART MERCER STAINLESS STEEL SHOWER TRAY UNDER DUCKBOARD SYSTEM. SHOWER TRAY CROSSES AND WATERPROOFS MODULE JOIN. REMOVEABLE HARDWOOD TIMBER DUCKBOARDS SIT OVER TRAY

SHEET KEYNOTES

256 WALL BUILT OUT 90MM TO ACCOMODATE PIPEWORK & IN-WALL CISTERN UP TO LEVEL OF CABINETRY

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408 REMOVEABLE SECTION OF WALL TILES AT MODULE JOIN. REFER DRAWING A-513 FOR CONSTRUCTION DETAILS

GENERAL SHEET NOTES

0 1/2' 1' 2'
REFERENCE KEYNOTES

06 22 00.K7 STRUCTURAL FRAMES TO BE 18MM PLYWOOD - MITRED AT EDGES
06 22 00.K14 18MM PLYWOOD WITH 5MM MIRROR GLASS TO EXTERIOR FACE
06 22 00.K17 HETTICH WING LINE 770 FOLDING DOOR GEAR FIXED TO TOP PANEL OF CABINET.
DOORS SUPPORTED BY TOP RAIL ONLY
11 31 23 A6 FISHER & PAYKEL TOP LOADING WASHING MACHINE MODEL WA55T56GW. 1020H X 560W X 560D. REFER MANUFACTURERS INSTRUCTIONS FOR INSTALLATION DETAILS
26 27 26 B3 PDL 600 SLIMLINE SERIES DOUBLE HORIZONTAL POWER SOCKETS POSITIONED AS SHOWN

SHEET KEYNOTES

190 40MM REQUIRED BETWEEN WASHING MACHINE AND BACK OF CABINET - REFER MANUFACTURERS INFORMATION FOR INSTALLATION DETAILS

GENERAL SHEET NOTES

1 : 12
A3
LAUNDRY CABINET - SECTION 2

1 : 12
A5
LAUNDRY CABINET - SECTION 1

1 : 12
A1
LAUNDRY CABINET - FRONT ELEVATION

1 : 12
D1
LAUNDRY CABINET - PLAN

I-465
1. See architectural drawings set for overall reflected ceiling plan produced by an Autodesk student product.
REFERENCE KEYS

CEILING SECTION - LOUNGE UNIT

CEILING SECTION - KITCHEN

SHEET KEYNOTES

I-471
REFERENCE KEYNOTES

06 26 40.B5 VERTICALLY ADJUSTABLE PROPRIETARY METAL CLIPS TO CEILING BATTENS SUSPENDED FROM ROOF STRUCTURE ABOVE

06 26 40.B8 CEILING PANEL EDGE SUPPORT: 83 X 12 TOUNGE & GROOVE RIMU BOARD SUPPORTED BY 30 X 30 X 3 ALUMINIUM ANGLE SCREW FIXED TO WALL STRUCTURE

23 31 16 A1 PREMIER FOAMBOARD DUCTING

SHEET KEYNOTES

502 INSTALLATION SEQUENCE FOR BATHROOM AND LAUNDRY CEILINGS: SUPPORT UNIT B2 FROM SUSPENDED CEILING BATTEN CLIPS AT BOTH ENDS. SUPPORT UNIT B1 FROM UNIT B2 VIA BATTENS AND AT OTHER END ON CEILING EDGE SUPPORT.

REFERENCE KEYNOTES

06 26 40.B5 VERTICALLY ADJUSTABLE PROPRIETARY METAL CLIPS TO CEILING BATTENS SUSPENDED FROM ROOF STRUCTURE ABOVE

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CEILING PANEL K2 ISOMETRIC

CEILING PANEL K1 ISOMETRIC

CEILING PANEL K2 - PLAN

CEILING PANEL K1 - PLAN

CEILING PANEL K2 - SIDE ELEVATION

CEILING PANEL K1 - SIDE ELEVATION

CEILING PANEL K2 - SECTION

CEILING PANEL K1 - SECTION
06 26 40.A1 83x12mm Tongue and Groove Rimu boards nail fixed through tongue to metal batten.

06 26 40.A2 Proprietary metal ceiling battens at 800mm centres max.

06 26 40.B3 83x83mm cutout in Rimu T&G board and neighbouring tongue for 12W LED light fitting.

195 Edges of Removable Ceiling to overlap inside face of interior lining by 6mm each side.
**REFERENCE KEYNOTES**

- 06 26 40.A1 83X12MM TONGUE AND GROOVE RIMU BOARDS NAIL FIXED THROUGH TONGUE TO METAL BATTEN
- 06 26 40.A2 PROPRIETARY METAL CEILING BATTENS AT 800MM CENTRES MAX
- 06 26 40.B3 83X83MM CUTOUT IN RIMU T&G BOARD AND NEIGHBOURING TONGUE FOR 12W LED LIGHT FITTING
- 06 26 40.B4 83X83MM CUTOUT IN RIMU T&G BOARD AND NEIGHBOURING TONGUE FOR SPRINKLER HEAD

**SHEET KEYNOTES**

- 196 EDGES OF REMOVABLE CEILING TO OVERLAP INSIDE FACE OF PERMANENTLY INSTALLED CABINETRY BY 6MM

**DRAWINGS**

- CEILING PANEL LA2 ISOMETRIC
- CEILING PANEL LA1 ISOMETRIC
- CEILING PANEL LA2 - PLAN
- CEILING PANEL LA1 - PLAN
- CEILING PANEL LA2 - SIDE ELEVATION
- CEILING PANEL LA1 - SIDE ELEVATION
- CEILING PANEL LA2 - SECTION
- CEILING PANEL LA1 - SECTION
KITCHEN PLAN DETAILS WEST

REFERENCE KEYNOTES

06 11 00.B2 70X45MM TIMBER STUD
06 11 00.G10 45X25MM HORIZONTAL TIMBER CAVITY BATTENS FIXED TO WALL FRAMING
06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES
06 22 00.K33 320MM BRUSHED STAINLESS STEEL HANDLE TO KITCHEN CABINETRY
06 22 20.A2 STAINLESS STEEL LAMINATED TO 36MM PLY BENCHTOP , STAINLESS RETURN 50MM AT BACK EDGE
06 22 20.A5 24MM MDF OPEN SHELVING, RIMU VENEERED ON BOTH FACES WITH RIMU EDGE TAPE APPLIED TO FRONT EDGE
06 22 20.A6 TOP HUNG 18MM 'RIMU HEART' LAMINATED MDF DOORS TO CABINETRY - HETTICH FLAP FITTING LIFE ADVANCED HK HARDWARE
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26 27 26 B3 PDL 600 SLIMLINE SERIES DOUBLE HORIZONTAL POWER SOCKETS POSITIONED AS SHOWN

1 : 6

1. KITCHEN PANTRY / FRIDGE TO EXTERNAL WALL - LOWER
2. KITCHEN PANTRY / FRIDGE TO EXTERNAL WALL - UPPER
3. KITCHEN PANTRY / FRIDGE PARTITION - LOWER
4. KITCHEN PANTRY / FRIDGE PARTITION - UPPER
5. KITCHEN PANTRY / FRIDGE TO SOUTH WALL - LOWER
6. KITCHEN PANTRY / FRIDGE TO SOUTH WALL - UPPER

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I-501

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**GENERAL SHEET NOTES**

1:6

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**REFERENCE KEYNOTES**

- 06 11 00.B2 70X45MM TIMBER STUD
- 06 11 00.G8 45X25MM INTERNAL TIMBER CAVITY BATTENS
- 06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES
- 06 22 00.K34 160MM STAINLESS STEEL HANDLE TO KITCHEN CABINETRY
- 06 22 20.A5 24MM MDF OPEN SHELVING, RIMU VENEERED ON BOTH FACES WITH RIMU EDGE TAPE APPLIED TO FRONT EDGE
- 06 22 20.A6 TOP HUNG 18MM 'RIMU HEART' LAMINATED MDF DOORS TO CABINETRY - HETTICH FLAP FITTING LIFE ADVANCED HK HARDWARE
- 06 22 20.A7 18MM MDF CABINETRY. RIMU VENEERED ON BOTH SIDES WITH RIMU EDGE TAPE APPLIED TO EXPOSED EDGES.
- 06 22 20.B4 6MM COMPRESSED FIBRE CEMENT SHEET WALL LINNING
- 08 80 00.A2 6MM TOUGHENED GLASS SPLASHBACK FROSTED AND BACK PAINTED ON 6MM COMPRESSED FIBRE CEMENT SHEET. LAP OVER STAINLESS UPTURN.

**SHEET KEYNOTES**

- 411 CUT AWAY IN CABINETRY SHELVING TO ALLOW FOR RANGEHOOD EXTRACT DUCT
- 412 STAINLESS STEEL BENCHTOP BELOW

**KITCHEN PLAN DETAILS EAST**

I-502
**BATHROOM WALL / TOILET**

- 06 11 00.B2 70X45MM TIMBER STUD
- 06 11 00.G8 45X25MM INTERNAL TIMBER CAVITY BATTENS
- 06 11 00.G11 100 X 25MM VERTICAL BLOCKING FOR FIXING SHOWER COLUMN
- 06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES
- 06 22 00.A5 BATHROOM CABINET WITH 1150MM LED BAR MOUNTED ABOVE AND BELOW. REFER DETAIL DRAWINGS
- 06 22 00.K18 50MM BENCHTOP WITH 'RIMU HEART' VENEER. BASIN INSET.
- 06 22 00.K21 HETTICH PRO DECOR HANDLE 045637 TOWEL RAIL TO SIDE OF VANITY UNIT
- 06 26 40.A1 83X12MM TONGUE AND GROOVE RIMU BOARDS NAIL FIXED THROUGH TONGUE TO METAL BATTEN
- 06 40 23.A1 83X12MM HORIZONTAL TONGUE & GROOVE RIMU TIMBER BOARD INTERIOR LINNING.
- 08 20 01.A2 10MM TOP HUNG FLOOR TO CEILING TOUGHENED GLASS FACE-SLIDER. ACID ETCHED ON SOUTH FACE. DORMA AGILE 150 SLIDING DOOR SYSTEM
- 09 21 00.A2 200 X 200MM ETCHLITE BACKPAINTED GLASS TILES OVER WPM ON 12MM COMPRESSED FIBRE CEMENT SHEET SUBSTRATE
- 22 41 00.A1 380 X 380 X 130 MM TRENZ SEMI RECESSED BASIN. MODEL 4148-C
- 22 41 00.A2 IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED 'WATERMARK' DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION DETAILS
- 22 41 00.A5 METHVEN FUTURA BASIN MIXER
- 22 41 00.A6 THREE PART MERCER STAINLESS STEEL SHOWER TRAY UNDER DUCKBOARD SYSTEM. SHOWER TRAY CROSSES AND WATERPROOF MODULE JOIN.
- 22 41 00.A7 METHVEN KIRI SATINJET SHOWER SYSTEM WITH OVERHEAD RAINSHOWER COLUMN

**BATHROOM WALL / SHOWER**

**BATHROOM WALL / BASIN**

**BATHROOM WALL / DOOR**
REFERENCE KEYNOTES

06 22 00.A4 LINE OF STORAGE UNIT ABOVE - REFER ELEVATIONS FOR DETAILS

06 22 00.A7.1 SHADED REGION SHOWS SOFA BED IN 'OPEN' POSITION

06 22 00.A8 LIVING ROOM JOINERY - OTTOMAN

06 22 00.A8.1 SHADED REGION SHOWS OTTOMAN IN 'OPEN' POSITION

06 22 00.A9 LIVING ROOM JOINERY - BEDSIDE SHELVING/STORAGE UNIT. FIXED TO WALL AND CEILING STRUCTURE

06 22 00.A10 LIVING ROOM JOINERY - BUNK BED. PLATFORM ALSO ACTS AS KIDS' TV VIEWING PLATFORM WHEN BIFOLD DOORS ARE OPEN

06 22 00.A11 LIVING ROOM JOINERY - ABOVE BUNK SHELVING UNIT. PRE-ASSEMBLED AND TOP HUNG FROM CEILING STRUCTURE

06 22 00.A12 LIVING ROOM JOINERY - BIFOLD DOORS. TRACK GEAR FIXED ON-SITE. BOTTOM TRACK FIXED TO BUNK SHELVING UNIT, TOP TRACK TO CEILING.

06 22 00.A12.1 BIFOLD DOORS SHOWN IN 'OPEN' POSITION

06 40 23.B10 REMOVABLE TIMBER FACING CUT TO FALL OF SKYLIGHT

SHEET KEYNOTES

415 BIFOLD DOORS OVER BUNK BED STRUCTURE NOT SHOWN IN THIS VIEW

GENERAL SHEET NOTES

1 : 12

A2 LOUNGE JOINERY UNITS - PLAN

PRODUCED BY AN AUTODESK STUDENT PRODUCT
SOFA BED PLAN

SOFA BED FRONT ELEVATION

SOFA BED SECTION

REFERENCE KEYNOTES

06 22 00.K19 18MM MDF WITH 'RIMU HEART' VENEER. RIMU EDGE TAPE APPLIED TO FRONT EDGE
06 22 00.K26 50 X 30MM TIMBER RUNNERS
06 22 00.K27 STOP ROLL SPRING LOADED CASTOR WHEELS WITH CENTRAL AND PRESSURE LOCKING, FIXED TO BED BASE
06 22 00.K28 18MM MDF WITH 'RIMU HEART' LAMINATE TO BOTH FACES. PANELS LIFT OFF FOR ACCESS TO BED BOX STORAGE
06 22 00.K29 18MM HARDBOARD BED BOX BASE
06 22 00.K30 2MM RUBBER STRIP TO UNDERSIDE OF BED BOX
06 22 00.K37 25MM ROUTED FINGER HANDLE
06 22 00.K38 CASTOR MOUNTING PANEL LOCATED ON UNDERSIDE OF HARDBOARD BASE
09 90 01.A1 UPHOLSTERED FOAM SQUABS - FABRIC TO BE BLAZER PRESTWICK FELT

GENERAL SHEET NOTES

1 : 8

C1

SOFA BED PLAN

A1

SOFA BED FRONT ELEVATION

A5

SOFA BED SECTION

A9

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**STORAGE UNIT PLAN**

- D2

**STORAGE UNIT SECTION**

- A2

**STORAGE UNIT ELEVATION**

- A4

**OTTOMAN PLAN DETAILS**

- C5

**OTTOMAN ELEVATION DETAILS**

- B5

**OTTOMAN SECTION DETAILS**

- A5

**GROUND FLOOR**

- A5

**OBJECTS**

- A5

**REFERENCE KEYNOTES**

- 06 22 00.K19 18MM MDF WITH 'RIMU HEART' VENEER. RIMU EDGE TAPE APPLIED TO FRONT EDGE
- 06 22 00.K22 12MM HARDBOARD SHELF
- 06 22 00.K23 18MM WHITE MELTECA DRAWER CARCASS
- 06 22 00.K25 100 X 30MM TIMBER RUNNER
- 06 22 00.K37 25MM ROUTED FINGER HANDLE MARKANT 11
- 06 22 00.K39 HETTICH FLAP STAY CENTRA S 20 & FLAP HINGE
- 06 22 00.K40 HETTICH MULTITECH LS AND QUADRO V6 DRAWER RUNNERS TO LOWER DRAWERS

**SHEET KEYNOTES**

**GENERAL SHEET NOTES**

- 1:8
- PRODUCED BY AN AUTODESK STUDENT PRODUCT
06 22 00.K19 18MM MDF with 'Rimu Heart' veneer. Rimu edge tape applied to front edge.

06 22 00.K23 18MM White Melteca drawer carcass.

06 22 00.K39 Hettich flap stay Centra S 20 & flap hinge Markant 11.

06 22 00.K41 2MM deep groove to allow for easy installation of above bunk shelving unit.

06 22 00.K42 Bifold bottom track attaches to bunk shelving unit. Refer bifold door details.

06 22 00.K43 Sliding cabinet doors. Hardware to be Hettich Slide Line 55 Plus.

06 22 00.K44 20mm routed finger handle.
REFERENCE KEYNOTES

06 22 00.K7 STRUCTURAL FRAMES TO BE 18MM PLYWOOD - MITRED AT EDGES
06 22 00.K8 12MM PLY SHELF
06 22 00.K9 24MM PLY SHELF
06 22 00.K10 18MM PLYWOOD BACKBOARD
06 22 00.K11 12MM PLYWOOD BACKBOARD
06 22 00.K12 40MM PLYWOOD BENCH
06 22 00.K51 18MM REMOVABLE PLYWOOD PANEL TO ALLOW ELECTRICAL AND DATA WIRING OF UNIT ON SITE

SHEET KEYNOTES

475 PUSH BUTTON SWITCH FOR BEDROOM LIGHTS AND OVER-UNIT STRIP LIGHT

GENERAL SHEET NOTES

1/2" = 1'-0"

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STUDY UNIT ELEVATIONS
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1  :  12
C3
FRONT / LIVING ROOM ELEVATION

1  :  12
C5
ELEVATION - UNIT A

1  :  12
A3
BACK / BEDROOM ELEVATION

1  :  12
A5
ELEVATION - UNIT B

1  :  12
C5
ELEVATION - UNIT A

1  :  12
A5
ELEVATION - UNIT B

1  :  12
C3
FRONT / LIVING ROOM ELEVATION
STUDY UNIT PLAN SECTION 01

STUDY UNIT PLAN SECTION 02

STUDY UNIT PLAN SECTION 03

REFERENCE KEYNOTES

06 22 00.K7 STRUCTURAL FRAMES TO BE 18MM PLYWOOD - MITRED AT EDGES

06 22 00.K8 12MM PLY SHELF

06 22 00.K9 24MM PLY SHELF

06 22 00.K10 18MM PLYWOOD BACKBOARD

06 22 00.K11 12MM PLYWOOD BACKBOARD

06 22 00.K12 40MM PLYWOOD BENCH

06 22 00.K16 30MM PLYWOOD BENCH - LEVEL WITH DESK

06 22 00.K51 18MM REMOVABLE PLYWOOD PANEL TO ALLOW ELECTRICAL AND DATA WIRING OF UNIT ON SITE

06 22 00.K52 50MM CAVITY FOR WIRING

06 22 00.K53 NO SHELF AT BOTTOM OF WIRING CAVITY TO PROVIDE ACCESS TO SERVICES THROUGH FLOOR

26 51 00.A1 6W RECESSED LED DOWNLIGHT

SHEET KEYNOTES

475 PUSH BUTTON SWITCH FOR BEDROOM LIGHTS AND OVER-UNIT STRIP LIGHT

GENERAL SHEET NOTES
GENERAL SHEET NOTES

1. NOTE LANDSCAPING AND CANOPY ELEMENTS ARE NOT SHOWN IN THIS VIEW FOR CLARITY.

REFERENCE KEYNOTES

214 INTERNAL CEILING HEIGHT SUBJECT TO CHANGE DUE TO MATERIAL SELECTION AND FINAL HEIGHT OF PREFABRICATED ROOF SECTIONS. TO BE CONFIRMED.

221 CEILING SPACE TO BE ACCESSIBLE ALONG ALL MODULE JOINS.

248 CENTRALLY LINKED SMOKE ALARM, TYPE TO BE CONFIRMED.

SHEET KEYNOTES

FIRE DETECTION AND ALARM

F-101
1. NOTE LANDSCAPING AND CANOPY ELEMENTS ARE NOT SHOWN IN THIS VIEW FOR CLARITY.

2. Hatch or shaded areas denote areas of sprinkler coverage.

GENERAL SHEET NOTES

REFERENCE KEYNOTES

SHEET KEYNOTES
REFERENCE KEYNOTES

06 22 00.A3 HYDRONIC DRYING CUPBOARD
22 11 16 A1 25MM POLYBUTYLENE MAIN WATER SUPPLY LINE
22 12 00 A1 3295 LITRES / 870 GALLONS POTABLE WATER SUPPLY LOCATED UNDERNEATH DECKING. TANK TO BE "WET EARTH" BLADDER TANK - 6100 X 1800 X 300MM
22 12 00 A2 WATER BLADDER FILL POINT
22 12 00 A3 768 LITRE / 203 GALLON WASTE WATER STORAGE TANKS LOCATED UNDERNEATH DECKING. TANKS TO BE "WET EARTH" BLADDER TANKS. 1600 X 1600 X 300MM
22 12 00 A4 WASTE WATER REMOVAL POINTS
22 33 30 A1 360 LITRE INSULATED STAINLESS STEEL HOT WATER CYLINDER WITH OVERFLOW TRAY

SHEET KEYNOTES

1 SITE BOUNDARY
181 FINISHED AREA: 71.9 SQUARE METERS / 774 SQUARE FEET SHOWN SHADED. FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE AS BUILT.
227 WATER STORAGE BLADDERS MOUNTED 3.5 INCHES ABOVE GROUND LEVEL
229 PUMPING STATION & GREYWATER STORAGE TANKS SECURED TO FOUNDATION FRAME
431 INNER PLANTER TO BE REMOVED DURING WATER BLADDER FILLING PROCESS TO PROVIDE MINIMUM 305MM / 12" CLEARANCE TO INLET
433 COURSE OF FRESH WATER SUPPLY HOSE. HOSE TO RUN OVER DECK AND THROUGH SPACE VACATED BY PLANTER
491 COURSE OF WASTE WATER REMOVAL HOSE
492 HOSE TO RUN OVER DECK AND THROUGH SPACE VACATED BY PLANTER
495 COURSE OF EVACUATED TUBE SOLAR HOT WATER COLLECTORS ON ROOF ABOVE
1. LANDSCAPE AND PLANTING ELEMENTS NOT SHOWN IN THIS VIEW FOR CLARITY - REFER P-101 FOR PLUMBING SITE PLAN

P-102

REFERENCE KEYNOTES

11 31 13 A2  FISHER & PAYKEL 6 PLACE SINGLE
DISHDRAWER MODEL DD60SCX6

22 11 16 A1  25MM POLYBUTYLENE MAIN WATER SUPPLY LINE

22 11 16 A2  15MM POLYBUTYLENE COLD WATER DISTRIBUTION LINE

22 11 16 A3  15MM POLYBUTYLENE HOT WATER DISTRIBUTION LINE

22 12 00 A1  3295 LITRES / 870 GALLONS POTABLE WATER SUPPLY LOCATED UNDERNEATH DECKING. TANK TO BE 'WET EARTH' BLADDER TANK - 6100 X 1800 X 300MM

22 12 00 A2  WATER BLADDER FILL POINT

22 32 00  RESIDENTIAL DOMESTIC AIR-TO-WATER HEAT PUMP WATER HEATER

22 33 30 A1  360 LITRE INSULATED STAINLESS STEEL HOT WATER CYLINDER WITH OVERFLOW TRAY

22 41 00.A2  IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED 'WATERMARK' DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS

32 94 00.A3  COASTAL PLANTER TYPE 3 - 864L X 864W X 344H MM

GENERAL SHEET NOTES

WATER SUPPLY BLADDER SECTION

SHEET KEYNOTES

SUPPLY WATER PLAN

PLUMBING SUPPLY PLAN
WASTE WATER PLAN

REFERENCE KEYNOTES

05 12 00.A17 450X450MM STEEL DECK SCAFFOLD FOOTING
05 12 00.L4 48MM STANDARD SCAFFOLD POLE
06 15 13.C1 06 15 13.C2 22 12 00 A3 768 LITRE / 203 GALLON WASTE WATER STORAGE TANKS LOCATED UNDERNEATH DECKING. TANKS TO BE ‘WET EARTH’ BLADDER TANKS. 1600 X 1600 X 300MM
22 12 00 A4 WASTE WATER REMOVAL POINTS
22 13 16 A1 80MM PVC WASTE PIPE
22 13 16 A2 65MM PVC WASTE PIPE
22 13 16 B1 65MM PVC VENT PIPE
22 41 00.A1 380 X 380 X 130MM TRENZ SEMI RECESSED BASIN. MODEL 4148-C
22 41 00.A2 IMEX CB-1088 ARCO BACK-TO-WALL TOILET PAN WITH FULLY FRAMED ‘WATERMARK’ DUAL FLUSH IN-WALL CISTERN. REFER MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS

SHEET KEYNOTES

233 65MM DRAIN @ 1:40 FALL
234 WC NOT CONNECTED TO MAIN DRAIN AND CAPPED FOR PURPOSES OF THE COMPETITION
235 40MM 1:40 WASTE WATERPIPE FROM KITCHEN SINK VIA TRAP
236 80MM DRAIN @ 1:60
237 PIPE TO RUN ALONG EDGE OF BUILDING BUT BELOW DECK SO EASY ACCESS TO JOIN BETWEEN MODULE JOINS
238 PIPE JOINED WITH SCREW FIT CONNECTIONS BETWEEN MODULE JOINS
239 50MM VENT PIPE
240 40MM 1:40 TR APPED TUNDISH TO ACCEPT WASHING MACHINE OUTLET

GENERAL SHEET NOTES

1. LANDSCAPE AND PLANTING ELEMENTS NOT SHOWN IN THIS VIEW FOR CLARITY - REFER P-101 FOR PLUMBING SITE PLAN

2. ALL DRAWS ARE BUILT TO SCALE

3. ALL TANKS TO BE IN ACCORDANCE WITH SAFETY AND MAINTENANCE REGULATIONS

4. ALL DRAWS ARE BUILT TO SCALE

5. ALL DRAWS ARE BUILT TO SCALE
WASTE WATER REMOVAL POINTS
SUPPLY WATER SECTION

11 31 13 A2 Fisher & Paykel 6 Place Single Dishdrawer Model DD60SCX6

22 11 16 A3 15mm Polybutylene Hot Water Distribution Line

22 11 16 B1 15mm Copper Solar Fluid Circulation Line

22 12 00 A1 3295 Litres / 870 Gallons Potable Water Supply Located Underneath Decking. Tank to be 'Wet Earth' Bladder Tank - 6100 x 1800 x 300mm

22 33 30 A1 360 Litre Insulated Stainless Steel Hot Water Cylinder with Overflow Tray

22 41 00 A1 380 x 380 x 130 mm Trenz Semi Recessed Basin. Model 4148-C

22 41 00 A2 Imex CB-1088 Arco Back-to-Wall Toilet Pan with Fully Framed 'Watermark' Dual Flush In-Wall Cistern. Refer Manufacturers Specifications for Installation Details

23 56 13 A1 20 Tube Evacuated Tube Solar Hot Water Collectors

234 WC Not Connected to Main Drain and Capped for Purposes of the Competition

242 Separate Fresh Water Line to Toilet So House Can Be Retrofitted with Grey Water System

PLUMBING SUPPLY SECTION

P-300
SUPPLY WATER SERVICES SHED ELEVATION
HYDRONIC DRYING ROOM

DRYING ROOM PLAN
1. Landscape and canopy elements not shown in this view for clarity.

**Step 1 - Lay Scaffolding**

**Step 2 - Plywood Base**

**Step 3 - Lay Bladder & Fill**

**Step 4 - Lay Decking**
STEP 1 - REMOVE PLANTERS AND DECKING

STEP 2 - REMOVE WATER FROM BLADDERS

STEP 3 - REMOVE BLADDERS

STEP 4 - REMOVE PLYWOOD BASE
HVAC EQUIPMENT AND DISTRIBUTION PLAN

REFERENCE KEYNOTES

- 23 33 13 A2 HCD 75 150MM X 150MM KITCHEN EXHAUST SHUT OFF DAMPER
- 23 34 16 A1 IN WALL BATHROOM EXTRACT FAN
- 23 37 13 A1 600 X 600MM SUPPLY AIR LINEAR DIFFUSERS
- 23 37 13 A3 350 X 100MM RETURN AIR EGGCRATE GRILLE
- 23 81 26 A1 MITSIBUSHI ELECTRIC PEA-RP71EA HEAT PUMP INDOOR UNIT
REFERENCE KEYNOTES
- 23 23 00 REFRIGERANT PIPING
- 23 81 26 A1 MITSUBISHI ELECTRIC PEARLP71EA HEAT PUMP INDOOR UNIT
- 23 81 26 A2 MITSUBISHI ELECTRIC PUHZ-RP71VHA2 HEAT PUMP OUTDOOR UNIT

SHEET KEYNOTES
- 223 DESIGN/PERM SUPPLY DUCT THAT RUNS THROUGH HOLES IN SHEAR WALL AS DETAIL

GENERAL SHEET NOTES
- MECHANICAL EQUIPMENT
- SUPPLY AIR EQUIPMENT PLAN

m-103

RETURN AIR PLAN
A3

MECHANICAL EQUIPMENT
A4
MECHANICAL EQUIPMENT 3D1

MECHANICAL EQUIPMENT 3D2

DUCTING ISOMETRIC
METER BOX SECTION

GENERAL SHEET NOTES

REFERENCE KEYNOTES

05 50 00.B11 ALUMINIUM FRAME IN CLADDING CUTOUT FOR CLADDING WINDOWS, FLASHING PLANS TO BE CLADDING WINDOWS AND FRAME AS PER FRAMES AT TIMES CONSIDERED.
05 01 00.A11 ALUMINIUM FRAME IN ALUMINIUM CUTOUT FOR WINDOW SILL. ALUMINIUM FRAME TO BE FRAME AS PER FRAMES AT TIMES CONSIDERED.
06 16 00.A10 12MM ECOPLY LINING NAIL FIXED AT 75MM CENTRES.
06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.
06 40 23.A2 135X19MM WHITEWASHED TONGUE & GROOVE PROFILE VERTICAL TIMBER BOARD ON 45X25 TIMBER BATTENS.
07 13 00.A1 HEAVY DUTY FLASHING TAPE
07 62 00.B6 CUSTOM CONTINUOUS FLASHING UNDER ALUMINIUM FRAME, FLASHING TO METER BOX WINDOWS.
07 92 00.A4 SINGLE SIDED 9MM ADHESIVE FOAM TAPE APPLIED TO ALUMINIUM FRAME, COMPRESSED TO FORM WATER SEALSAGAINST METER BOX AT TIMES CONSIDERED.
26 27 16.A1 METER BOX HOUSING - 60HZ METER
26 27 16.A2 METER BOX HOUSING - 50HZ METER

SHEET KEYNOTES

METER BOX HEAD SECTION

TOP OF PARAPET

GROUND FLOOR

GRADE LEVEL

METER HOUSING - ELEVATION

PRODUCED BY AN AUTODESK STUDENT PRODUCT

POWER METER ELEVATION

E-214
REFERENCE KEYNOTES

05 50 00.B11 ALUMINIUM FRAME IN CLADDING CUTOUT TO METER BOX WINDOW SCREW FIXED TO CLADDING THROUGH REAR FLANGE.

05 50 00.B12 REAR FLANGE FABRICATED FROM 30 X 6MM ALUMINIUM FLAT OR SIMILAR, MITRED AT CORNERS. INVISIBLE WELD TO FRAME THROUGH CLADDING AND AT MITRES.

05 50 00.B13 FRAME THROUGH CLADDING FABRICATED FROM 3 X 19MM ALUMINIUM FLAT, MITRED AT CORNERS, TO MATCH THICKNESS OF CLADDING. INVISIBLE WELD AT MITRES AND TO REAR FLANGE.

06 26 13.A1 PANELIZED REMOVABLE HORIZONTAL SHIPLAP CEDAR WEATHERBOARDS ON 60MM CAVITY, FIXED T 735MM MAX CRS TO ALUMINIUM CAVITY BATTENS.

SHEET KEYNOTES

498 APPROXIMATE OUTLINE OF WINDOW IN METER BOX BEHIND CLADDING AND ALUMINIUM FRAME SHOWN DASHED.

GENERAL SHEET NOTES

METER HOUSING - DETAIL ELEVATION IN CLADDING

POWER METER FRAME - FRONT

POWER METER FRAME - SIDE
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<td>Phase 1</td>
<td>Interior Lighting 1</td>
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<td>1</td>
<td>Kitchen Lights</td>
<td>Phase 3</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>2A</td>
<td>11</td>
<td>1</td>
<td>Dining Room Lights</td>
<td>Phase 3</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>2A</td>
<td>12</td>
<td>1</td>
<td>Outlets</td>
<td>Phase 3</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>3A</td>
<td>13</td>
<td>1</td>
<td>Living Room Lights</td>
<td>Phase 4</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>3A</td>
<td>14</td>
<td>1</td>
<td>Kitchen Lights</td>
<td>Phase 4</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>3A</td>
<td>15</td>
<td>1</td>
<td>Dining Room Lights</td>
<td>Phase 4</td>
<td>Interior Lighting 1</td>
</tr>
<tr>
<td>3A</td>
<td>16</td>
<td>1</td>
<td>Outlets</td>
<td>Phase 4</td>
<td>Interior Lighting 1</td>
</tr>
</tbody>
</table>

**Address:**
139 Vivian Street, Te Aro, Wellington, New Zealand

**Contact:**
elanuttall@gmail.com

**Website:**
www.firstlighthouse.ac.nz

**Client:**
Tennent + Brown Architects

**Production:**
Southern Perspectives / Solar City

**Produced by:**
Autodesk Student Product

**Website:**
www.solardecathlon.gov

**Copyright:**
First Lighthouse

**Mark Date:**
08/13/2011 8:29:20 AM
1. **Solar System Overview**

   - **Array Details**
     - Total Arrangement: 2 x 2 Sub Arrays of 6 Strings of 14 Modules
   - **Module Details**
     - Make: MITSUBISHI PV-TJ225GA6
     - Model: (IDENTICAL MODULE TO UL LISTED PV-UJ225GA6) AND IEC 61730 (IDENTICAL PV-UJ225GA6 IS UL LISTED)
     - PMAX: 310W
     - I(SC): 8.3A
     - V(OC): 36.4V
     - Length: 1994mm
     - Width: 994mm
     - Depth: 420mm
     - Weight: 20kg

2. **Conduit Details**

   - **DC Conductor Size**
     - 6mm² (AWG #10) BARE COPPER STRING 1: 14 PV-TJ225GA6 MODULES IN SERIES
     - Copper Conductor, Equipment-Grounding Conductor, Grounding Conductor
   - **Conduit Sizes**
     - Maximum System Voltage: 509.6V (25°C, 25°C - (-7.2°C) = 32.2°C x 0.32% = 10.3%)
     - Minimum 14AWG Conduit (Table 310.16)

3. **Disconnect Details**

   - **600V DC Disconnect**
     - Required for Voltage Drop (690.8(A)(2))
     - 2 x 10.4A = 20.8A
   - **36A 120/240V Residential CU**
     - Required for Voltage Drop (690.8(A)(2))

4. **Inverter Details**

   - **Make**: SMA SB 6000 US
   - **Model**: SG20A T306/D-POO1 VE24

5. **Documentation**

   - Reference: FIRST LIGHT / SOULAR DECATHLON / WWW.FIRSTLIGHTHOUSE.AC.NZ
   - Sheet: E-602
REF. KEYNOTES

1. SITE BOUNDARY
2. UTILITY INTERCONNECTION POINT, LOCATION TO BE CONFIRMED
3. LOCATION OF NETWORK SWITCH
4. LOCATION OF ORGANISER SUPPLIED DATALOGGER
5. CABLING ROUTES FOR ORGANISER SUPPLIED CABLING BETWEEN NETWORK SWITCH / PV MONITOR AND DATALOGGER, AND DATALOGGER AND UTILITY METERS. CABLING RUNS IN CABLE TRAY CONCEALED WITHIN SERVICES BULKHEAD
6. DATALOGGER LOCATED IN LIVING ROOM SHELVING UNIT DIRECTLY BEHIND FRIDGE
7. MIN 1" CONDUIT THROUGH WALL FOR ORGANIZER SENSOR RUN
8. SPACE FOR ORGANIZER INSTALLED CONDUIT BETWEEN ORGANIZER ENCLOSURE AND PV SYSTEM

GENERAL SHEET NOTES

PRODUCED BY AN AUTODESK STUDENT PRODUCT
103 VA

CANOPY COMPONENT STORAGE AREA

LANDSCAPE COMPONENT STORAGE AREA

CANOPY FRAME AND PANEL CONSTRUCTION AREA. USE OF THIS AREA TO BE CONFIRMED WITH ORGANIZERS.

ONSITE PERSONAL AREA AND TOOL STORAGE

CLADDING COMPONENT STORAGE AREA

FOUNDATION COMPONENT STORAGE AREA

ALTERNATIVE CANOPY ASSEMBLY SITE

MAXIMUM CRANE ARC INDICATED

SHEET TITLE

LOT NUMBER:

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CLIENT

U.S. DEPARTMENT OF ENERGY

SOLAR DECATHLON 2011

WWW.SOLARDECATHLON.GOV

TEAM NAME:

ADDRESS:

CONTACT:

TENNENT + BROWN ARCHITECTS

CONSULTANTS

DUNNING THORNTON CONSULTANTS LTD

LEAP AUSTRALASIA LTD

SOUTHERN PERSPECTIVES / SOLAR CITY

FIRST LIGHT

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O-101

SITE STAGING PLAN

PRODUCED BY AN AUTODESK STUDENT PRODUCT
TRUCKS 2, 3 & 4 TRANSPORT
MODULES TO AND FROM
ASSEMBLY SITE

TRUCK 1 TRANSPORTS THE SINGLE
20 FOOT SHIPPING CONTAINER TO
AND FROM ASSEMBLY SITE

TRUCK 5 TRANSPORTS THE SINGLE
40 FOOT HIGHCUBE SHIPPING
CONTAINER TO AND FROM
ASSEMBLY SITE

TRUCK 5 TRANSPORTS THE SINGLE
40 FOOT HIGHCUBE SHIPPING
CONTAINER TO AND FROM
ASSEMBLY SITE

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TRUCK 5 TRANSPORTS THE SINGLE
40 FOOT HIGHCUBE SHIPPING
CONTAINER TO AND FROM
ASSEMBLY SITE
- Truck 1 arrives on site. Refer to O-101 for truck parking location
- Tools, generators, and lighting equipment are unloaded and set up in designated areas as per O-101
- The foundation system is unloaded
- Truck 1 leaves site
- A site survey is conducted to establish site levels and set out the foundation system

**STEP 1 - SITE PREPARATIONS**

- Foundation pads are positioned according to site survey
- Foundation uprights are fixed to foundation pads
- Foundation spacers are inserted according to site survey
- Foundation uprights are leveled and checked with laser level
- Crane arrives on site (location as per O-101) and is set up

**STEP 2 - FOUNDATION SET OUT**

- Crane arrives on site (location as per O-101) and is set up
- Steel foundation members are lifted into place over foundation uprights
- Steel foundation members fixed together
- Foundation system levels checked with laser level
- Truck 2 arrives onsite (location as per O-101) with modules 1 & 2
- Crane prepares to lift modules 1 & 2 into place

STEP 3 - FOUNDATION ASSEMBLY

- Module 1 lifted into place and fixed to foundation
- Module 2 lifted into place and fixed to foundation and module 1
- Truck 2 leaves site
- Truck 2 arrives onsite (location as per O-101) with modules 3 & 4
- Crane prepares to lift modules 3 & 4 into place

STEP 4 - PLACEMENT OF MODULES 1 & 2

GENERAL SHEET NOTES
STEP 5 - PLACEMENT OF MODULES 3 & 4

- Module 3 lifted into place and fixed to foundation and Module 2
- Module 4 lifted into place and fixed to foundation and Module 3
- Truck 3 leaves site
- Truck 4 arrives onsite (location as per O-103) with Modules 5 & 6
- Crane prepares to lift modules into place

STEP 6 - PLACEMENT OF MODULES 5 & 6

- Module 5 lifted into place and fixed to foundation and Module 4
- Module 6 lifted into place and fixed to foundation and Module 5
- Truck 4 leaves site
- Truck 5 arrives onsite (location as per O-103) with 40 foot container
- 40 FOOT CONTAINER IS UNLOADED AND ALL COMPONENTS PLACED IN THEIR DESIGNATED AREAS (REFER O-101)
- TRUCK 5 LEAVES SITE WITH EMPTY 40 FOOT CONTAINER

STEP 7 - UNLOAD SHIPPING CONTAINER

- MODULE JOINS ARE WEATHERPROOFED - REFER TO DRAWINGS A-511 & A-511
- CLADDING PANELS ARE ATTACHED TO THE MODULES - REFER TO DRAWINGS A-591 - A-596
- INDIVIDUAL COMPONENTS OF THE CLADDING SYSTEM INSTALLED - REFER TO DRAWINGS A-597 & A-598
- CANOPY FRAMES ARE ASSEMBLED ON GROUND IN DESIGNATED AREA - REFER TO DRAWINGS A-491 - A-490
- CRANE PREPARES TO LIFT CANOPY FRAMES INTO PLACE

STEP 8 - CLADDING INSTALLATION & CANOPY FRAME ASSEMBLY
- Canopy frames are craned into place and fixed to the foundation system.
- Canopy panels are assembled on ground in the designated area and prepared for lifting - refer to A-461 - A-480.

STEP 9 - CANOPY FRAME INSTALLATION & CANOPY PANEL ASSEMBLY

STEP 10 - CANOPY PANEL INSTALLATION
**ASSEMBLY SEQUENCE**

- CRANE PACKS UP AND LEAVES SITE
- PV PANEL SUPPORT FIXED TO INDIVIDUAL PV PANELS - REFER E-410 - E-414
- ASSEMBLED PV PANELS FIXED TO CANOPY STRUCTURE

**REFERENCE KEYNOTES**

**SHEET KEYNOTES**

**GENERAL SHEET NOTES**
STEP 1 - LANDSCAPE AND PV PANEL DISASSEMBLY
- Landscape panels detached from substructure and stacked in designated area (Refer O-101 for location)
- Landscape substructure disassembled and stacked in designated area
- PV panel system detached from canopy and panel supports removed
- PV panels packaged for transport
- Crane arrives onsite (Refer O-101 for location) and is set up

STEP 2 - CANOPY PANEL REMOVAL
- Canopy panels detached from canopy frame and craned to designated area (Refer O-101 for location)
- Canopy panels disassembled on ground and stacked in designated area

STEP 3 - CANOPY FRAME REMOVAL
- Canopy frames detached from foundation and craned to designated area (Refer O-101 for location)
- Canopy frames disassembled on ground and stacked in designated area (Refer O-101 for location)

STEP 4 - CLADDING REMOVAL
- Cladding system detached from modules and stacked in designated area (Refer O-101 for location)
- Crane prepares to lift module 6

STEP 5 - REMOVAL OF MODULES 5 & 6
- Module 6 detached from module 5 and foundation system
- Module 6 craned onto truck 2
- Module 5 detached from module 4 and foundation system
- Module 5 craned onto truck 2
- Truck 2 leaves site

STEP 6 - REMOVAL OF MODULES 3 & 4
- Truck 3 arrives onsite
- Module 4 detached from module 3 and foundation system
- Module 4 craned onto truck 3
- Module 3 detached from module 2 and foundation system
- Module 3 craned onto truck 3
- Truck 3 leaves site

REFERENCE KEYNOTES
SHEET NOTES
GENERAL SHEET NOTES
D1
B1
A1
D4
B4
A4
1. **STEP 7 - REMOVAL OF MODULES 1 & 2**
   - TRUCK 4 ARRIVES ON SITE
   - MODULE 2 DETACHED FROM MODULE 1 AND FOUNDATION SYSTEM
   - MODULE 2 CRANED ONTO TRUCK 4
   - MODULE 1 DETACHED FROM FOUNDATION SYSTEM
   - MODULE 1 CRANED ONTO TRUCK 4
   - TRUCK 4 LEAVES SITE

2. **STEP 8 - DISASSEMBLY OF FOUNDATION**
   - CRANE PICKS UP AND LEAVES SITE
   - FOUNDATION SYSTEM IS DISASSEMBLED AND STACKED IN DESIGNATED AREA (REFER O-101 FOR LOCATION)

3. **STEP 9 - PACKING SHIPPING CONTAINERS**
   - TRUCKS 1 AND 5 ARRIVE ON SITE
   - BUILDING COMPONENTS ARE PACKAGED INTO CONTAINERS IN PREDETERMINED ORDER
   - FINAL SITE CLEAN UP
   - TRUCKS 1 AND 5 LEAVE SITE