HUT PROCUREMENT MANUAL
PART B

FOR 4, 6, 10 AND 12 BUNK BACKCOUNTRY HUTS

QD code VC1414 **March 2009 Version 4.0**

Department of Conservation
Te Papa Atawhai

CONTENTS

Section B1: The Process

1.1 Purpose

To provide a consistent national process by which the department procures a completed small (4, 6, 10 or 12 bunk) hut, including outbuildings and departmental supplied items, in an efficient and effective manner. This process is mandatory for all standard and basic huts.

In order to achieve this purpose, the necessary stages and actions are noted, and the appropriate parties that are responsible for carrying out those actions identified.

DOC Process: Use of the Manual

The first few sections of Parts A, B and C identify the task involved at each stage, the party responsible for that task and the actions to be undertaken as part of that task.

There are five parties involved in the Process:

- *DOC project manager: This may be Area, Conservancy or Regional staff as identified and applicable. They are responsible for overall project co-ordination, management and programming to meet the project needs of DOC. It is expected that the nominated DOC project manager will have the requisite skills but, due to either time, resource or skill issues, they may chose to engage outside consultants to assist with some aspects of their tasks and actions.*
- *Architect: Pynenburg and Collins Architects Ltd, providing the design and documentation tasks, including co-ordination of consultants and co-operation with the complex toilets consultant.*
- *Contract Administrator: Providing the services that would have been provided by the architect if they had been local. They receive the completed tender and building consent documents and carry out the building consent, tendering, construction observation and contract administration tasks.*
- *Consultants: Surveyor, structural engineer, foundation engineer, environmental engineer (for minor works such as sullage and soakage pits only), where such consultants will be providing input into the design and documentation of items required to be part of the hut itself. Such consultants will work under the direction of the architect and the Contract Administrator.*
- *Environmental Engineer: Occasionally an Environmental Engineer will be engaged by DOC to design and document a stand-alone complex toilet system (anything other than a VIP toilet) that will be part of the project. With the need to manage the design and documentation effectively and efficiently, the Environmental Engineer will act separately under the direction of DOC staff and co-ordinate with the architect and Contract Administrator.*

1.2 Pre-Process decisions and information gathering

Responsibility:

DOC Project Manager:

- To follow the procedures as identified in other manuals or documents.
- To compile the necessary information and to make the required decisions to commence the Process as identified in this manual.

Actions:

1.2.1: Strategic planning

By reference to CMS and other DOC strategic planning documents, public consultation and the like, confirm the long-term need for the new hut, its most desirable location and required bunk size. Carry out the assessment of geological and other hazards for the preferred site and determine the suitability of the preferred site.

1.2.2: Identify name:

Determine hut name and asset numbers for consistency in all project documents and departmental files.

1.2.3: Service Standard category:

Identify whether the new hut will be a Serviced, Standard or Basic hut and any proposed variations to the Service Standards. If any variations from the Service Standards requirements are desired these will require approval from the General Manager Research and Development at this stage in the Process.

1.2.4: Assessment of Environmental Effects:

Prepare an Assessment of Environmental Effects; a full one using wgnco-28273 for huts that will be built on a new site and a checklist (using the headings in that document) for huts that will be replacing buildings on the same site.

Note there is no external requirement to prepare an AEE. The reason for requiring an AEE for this work is to ensure that the effects of the hut building proposal are acceptable within the department and to interested outside parties. It will also compile in one place the information you have to provide to a local authority for resource consent. The AEE or checklist is filed and made available internally or outside DOC as required.

1.2.5: Financial control

Set up and follow the financial control procedures for capital projects and obtain financial approval in principle.

DOC Process: The Process

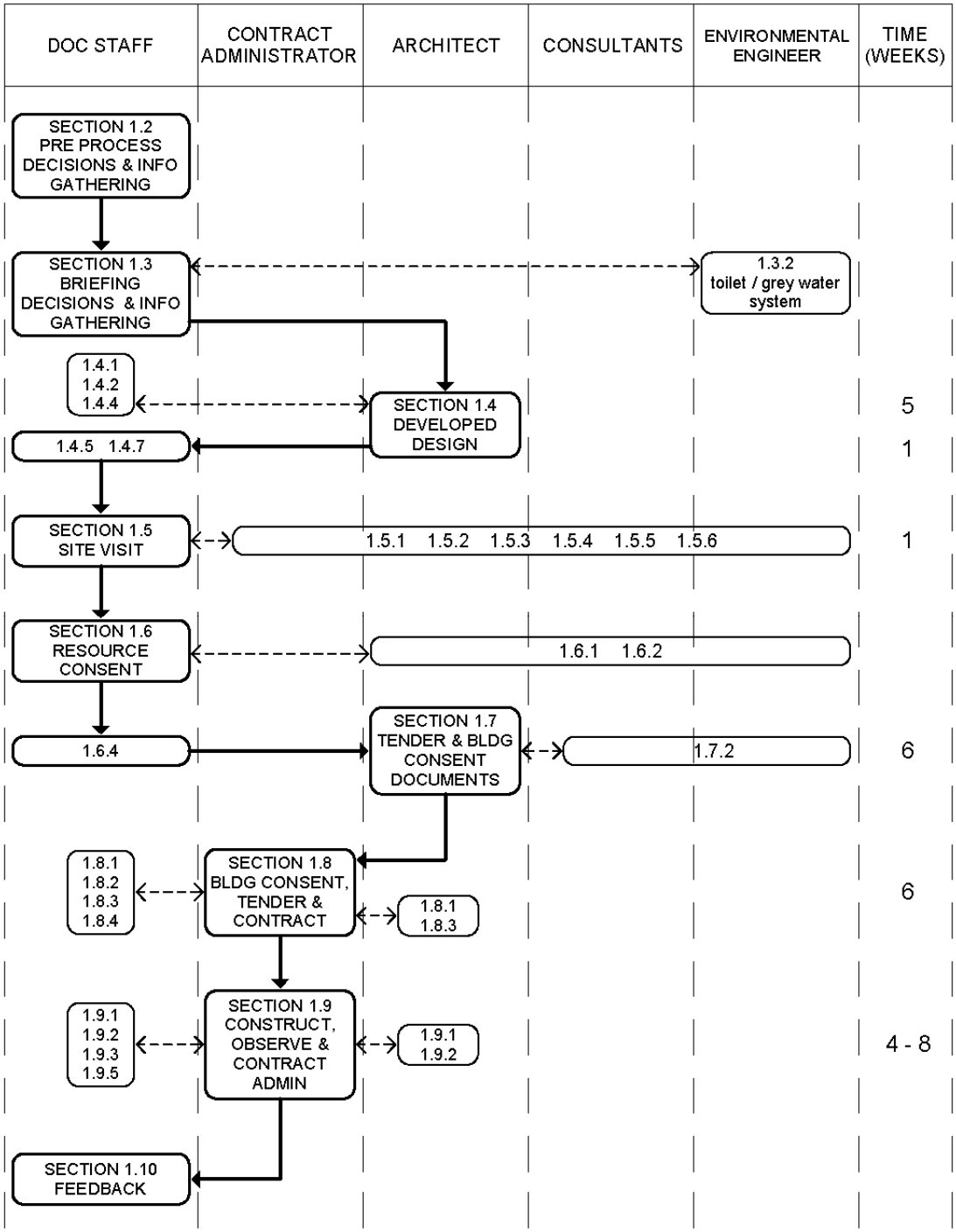

Figure 1: 4-12 bunk Process

Figure 1 describes the Process in diagrammatic form.

Across the top are the five parties involved. The heavily outlined boxes identify the tasks included in the Process and these line up underneath the party responsible for that task. The heavy arrow identifies the Process itself and how it moves from party to party. The lightly outlined boxes identify the actions other

parties are involved in for each task, and these also line up under the parties involved.

Down the right hand side is time, identifying the expected duration of each task. The critical issue is the available on-site construction period, which is very weather dependent.

If no Resource Consent is required, all the necessary information is provided at 1.3, and DOC decisions are made within a short time frame, Tender and Building Consent documents could be provided within 12 weeks of the information being received. Therefore, if complete information is provided by late March or early April, and there are no unusual or time-consuming issues, it should be feasible to have the hut built and ready for use at the start of the summer season.

1.3 Briefing decisions and information gathering

Responsibility:

DOC Project Manager:

- To set up the project structure and key personnel,
- To compile and provide the necessary brief (or information and requirements) to enable the architect to produce the Developed Design (refer section 1.4 below).

Actions:

1.3.1: Appoint Contract Administrator.

Usually the architect will not be local. A local Contract Administrator is required who will receive the tender and building consent documents from the architect and carry out the building consent, tendering, construction observation and contract administration tasks that otherwise the architect would perform. The Contract Administrator could be a staff member (perhaps the Project Manager) or an external consultant (the Architect, Engineer or another consultant). They must be local to effectively attend to any site, construction or contractual issues, and must be included in the site visit (refer section 1.5 below).

1.3.2: Scope of Project:

Identify the scope of the total project that will be included in the contract involving the construction of the hut. Identify which, if any, of the following work is to be included in the scope of work and whether DOC or the Contractor is expected to undertake it:

- vegetation clearance and tree cutting,
- hut platform excavation,
- toilet supply and installation
- grey water systems (refer also 1.3.11 below)
- wood shed or other outbuildings

- track work
- existing features to be retained, removed or reused, such as a hut, track, accessory buildings, and the like.

1.3.3: Resource Consents:

Identify for what aspects of the project a Resource Consent may be required and the governing Territorial Authority.

1.3.4: Site Location and Information

Obtain 1:50,000 map number, grid reference, altitude and 5km x 5km extract from NZMS 260 series.

Where an existing hut is to be replaced on the same site, and a baseline inspection exists with a scaled site plan and aerial/ground photographs, extract this information from AMIS.

If there is no site plan and/or aerial/ground photos of the site, then prepare a site plan and/or obtain aerial/ground photos. The site plan should be to scale (no smaller than 1:200) and include information on contours and ground slopes/falls, water courses, waterbodies, limitations (such as minimum distance from bluffs or levels above rivers/lakes, etc), vegetation, tracks, and any existing buildings.

If required, the architect can be engaged to carry out the site visit and produce both the site plan and the photographs. Other issues that would otherwise be addressed under 1.5 Site Visit can also be discussed.

1.3.5: Special Environments

A hut in either an alpine environment or a harsh environment requires specific materials and/or construction details to be incorporated.

An Alpine environment is where design is dictated by extremes of wind and snow loading. Generally these huts are sited at altitudes above 1,200m and/or are subject to snow loads of 2kPa or more. In the South Island keas may also be present. Occasionally it would be extended to include huts below 1,200m where similar conditions are experienced. Further guidance is included in Part E4 of this manual.

A Harsh environment is where design is dictated by a higher risk of corrosion and will either be coastal or geothermal. Generally these huts are sited within 500m of the coast or within the Central volcanic plateau of the North Island. Figure 4.1 of NZS 3604 identifies these areas as the sea spray zone and zone 4 respectively. Further guidance is included in Part E5 of this manual.

Identify if hut is in either of these environments, or collect sufficient data for the architect to make this decision.

1.3.6: Ground material/condition

Provide copy of any geological or avalanche hazard assessment, describe soils on site including known conditions such as soft or fragile ground.

1.3.7: Structural loads

Have local DOC Engineer identify relevant zone and calculate and provide applicable design loads or factors for the following:

- earthquake zone (by reference to figure 5.4 of NZS 3604),
- wind zone (L, M, H, VH, or SED), speed (in m/s) and wind load (in kPa),
- snow load, including any drift allowance onto verandahs (by reference to figure 15.1 of NZS 3604). For specific design provide snow loads in kPa.

The standard design loads for a 4 – 12 bunk hut are

- floor: 1.5kPa
- deck: 2.0kPa

1.3.8: Design options for 4, 6, 10 and 12 bunk huts

Identify which, if any, of the following options are to be incorporated:

4 and 6 Bunk hut:	i)	deck along front wall
	ii)	external sink
10 and 12 bunk hut:	i)	deck along side wall,
	ii)	deck and roof along side wall.
	iii)	external sink

1.3.9: Hut feature, fittings and fixtures options

Identify which, if any, of the following features, fittings and fixtures are not required due to local conditions or needs:

- Furniture (tables and/or forms)
- Water tank/water supply
- Multi-fuel burner
- Insect proofing (screens, seals, etc)

Identify the location of the external sink if this design option has been selected:

- to deck for 10 and 12 bunk hut,
- to water tank for 4, 6, 10, and 12 bunk huts.

- Note that when an external sink is chosen, a grey water system is required for disposal of grey water. Refer to part F2 of this manual for guidance.

1.3.10: Cladding

Identify which cladding is required. Note that generally ply and batten should only be selected for sheltered sites below the bushline.

- Coloursteel
- Ply and batten

If the hut is located in a harsh environment (i.e. coastal or geothermal) refer to part E5 of this manual for guidance.

1.3.11: Toilet and Grey Water

Where a toilet is required refer to part F1 of this manual for guidance to establish whether a pit toilet can be utilised or if specific design is required. If a pit toilet can be used, then part F1 provides compliant solutions.

Where a Grey Water disposal system is required refer to part F2 of this manual for guidance to establish whether the standard solutions in F2 can be utilised or if specific design is required.

If specific design for either toilet or grey water is required identify Environmental Engineer who will be advising the department on selection, and carrying out the design and documentation of the toilet and/or grey water disposal system. This consultant will be engaged in a parallel process of advice, design and documentation.

1.3.12: Other site specific issues or hazards

Record anything else that is relevant.

1.3.13: AMIS:

Where an existing hut is to be replaced, obtain a copy of all AMIS information on the site, including baseline inspections, geotechnical reports, construction documents, toilet/waste disposal systems and the like.

1.3.14: Forward information:

Compile the above information and forward it to Pynenburg and Collins Architects Ltd, PO Box 2115, Wellington, Attention Ron Pynenburg. Electronic copy is acceptable (email ron@pc-architects.co.nz), but not scanned documents as scale is important. Rather than scan documents, post photocopies – a few days will not affect the programme.

If you wish to discuss any of the necessary detail while compiling the information contact Ron Pynenburg via email or phone (DDI 04 916 2201).

1.4 Developed Design

Responsibility:

Pynenburg and Collins Architects Ltd:

- To produce a Developed Design that enables confirmation from DOC Area staff that the intended scope of work and options selected are incorporated.
- To co-ordinate with the DOC engineer if specific structural design is required.

Actions:

1.4.1: Review information:

Receive above information from DOC Project Manager and review for completeness. In particular review information regarding:

- location in either an alpine or harsh environment (refer Parts E4 and E5).
- Suitability for pit toilet (refer Part F1)
- Suitability for grey water disposal if sink required (refer Part F2)

Follow up on any errors or omissions, seek clarification as required from DOC Project Manager before proceeding.

1.4.2: DOC Engineer:

If any of the loads provided under section 1.3.6 are beyond the scope of NZS 3604, identify the specific structural members of the hut that require specific design and forward a request to the DOC engineer to provide specific design input (calculations, sizing and details as required).

1.4.3: Developed Design Documents:

Prepare Developed Design from the Base documents, comprising site plan, floor plan, four elevations, cross and long sections, foundation plan, bracing plan, door & window schedule and Developed Design Specification for hut.

Receive, review and provide comment on design input from DOC Engineer. Manage the amendment of such documents if required. Co-ordinate and incorporate design input into Developed Design.

1.4.4: DOC sign-off:

Forward Developed Design documents to DOC Project Manager for review/comment/agreement and to obtain the sign-off of the Area Manager responsible for the project.

Note that this stage is to be a confirmation that the developed design meets the brief (refer section 1.3 above), not an opportunity for the design or Area requirements to be revisited.

If the response involves variations from the Briefing information that relate to service standard, bunk capacity, or other departmental policy matters, this will require approval from the General Manager Research and Development prior to the project proceeding further.

DOC Area staff are responsible for forwarding the required information and obtaining the necessary approvals from the General Manager Research and Development.

1.4.5: Service Standards sign-off:

Forward Developed Design documents to General Manager Research, and Development (Attention Brian Dobbie) for the scope of work to be checked against the Service Standards.

The hut project will not proceed to tender and building consent documents, and/or to Resource Consent application (if required), without this sign-off. Sign-off is contingent upon approval of the final scope of work (i.e. confirming that the project hasn't deviated from the service standards).

1.4.6: NO CHANGES:

UPON RECEIPT OF SIGN-OFF NO FURTHER CHANGES TO DESIGN OR SCOPE OF WORK SHALL OCCUR IN THE TENDER AND BUILDING CONSENT DOCUMENTS.

1.5 Site Visit

Responsibility:

DOC Project Manager:

- To arrange a site visit, if necessary, by all necessary personnel to confirm (or amend as necessary) aspects of the Developed Design documents as being appropriate to the site prior to the production of construction documents,
- To ascertain if a Resource Consent is required,
- To confirm site information; and to peg out on site the location of the hut and all accessory buildings.

Actions:

1.5.1: Is a site visit necessary?:

Discuss with the architect if there are any technical issues in the Developed Design documents that are best confirmed or resolved by a site visit. This is likely where there are concerns regarding such matters as:

- ground conditions for foundation design,
- ground conditions for pit toilet and/or grey water,
- ground slopes and/or the extent of excavation required,
- the site is small or in some way constrained,
- the exact location and/or orientation of the hut on site.

1.5.2: Necessary personnel:

If a site visit is deemed necessary, discuss with the architect which consultants would be required on a site visit. It is expected that generally the architect and the DOC engineer would be required. Where DOC Area staff will not be the Contract Administrator, ensure the appointed Administrator attends the site visit.

Co-ordinate the required attendees at least two weeks in advance to arrange a suitable date for a site visit. Those from out of town will arrange their own transport to the nearest airport, and will bring their own gear other than that noted below.

1.5.3: Transport and equipment:

From the airport arrange all local transport to the proposed hut site, including any Health and Safety briefings and gear. Arrange all necessary equipment (e.g. shovels, heavy bar, sledge hammer, and sufficient pegs) to carry out site investigations and to peg out buildings. Contact and co-ordinate with all required attendees to ensure the provision of all necessary equipment (either by DOC or consultant) for the obtaining of all required information during the site visit to enable the resolution of all issues and the production of tender and building consent documents.

1.5.4: Resource Consent:

Confirm the aspects of the project for which a Resource Consent may be required with the relevant Territorial Authorities. Identify complying parameters or requirements and extent of site information required if an application is necessary. Determine what on-site investigation is required to confirm the need or otherwise for a Resource Consent and organise the necessary equipment.

If an external sink has been selected a grey water system is required. Check relevant plans to ascertain necessary separation distances from adjacent waterways and water bodies.

1.5.5: Site Visit:

Visit the site and carry out the following actions as required:

i) Assess and confirm soil condition/profiles for foundation design,

ii) Assess soil conditions/profile for pit toilet and distances to waterways and water bodies if external sink has been selected.

iii) Assess soil conditions/profile for grey water system and distances to waterways and water bodies if external sink has been selected.

iv) Survey site to provide accurate site plan, datum level, site extent and features, levels and extent of any excavation and site works.

v) Survey horizon lines to determine extent of available sunlight and views.

vi) Agree on and peg out hut and accessory building locations,

vii) Investigate Resource Consent parameters and information,

viii) Obtain any other information identified as being required to complete design and construction documents.

1.5.6: Summary:

During the site visit the architect and/or DOC engineer will record the required information, and provide it to all who will require it for the production of tender and building consent documents.

1.6 Resource Consent

Responsibility:

DOC Project Manager:

- To apply for and obtain Resource Consents, when required.

Actions:

1.6.1: Tender and Building Consent documents:

If Resource Consent is not required, or if it is required but approval is certain, instruct the architect to proceed with tender and building consent documentation.

If Resource Consent is required and approval is not reasonably certain, instruct architect to wait until consent has been granted before proceeding with tender and building consent documentation.

1.6.2: Application documents:

In addition to the Developed Design documents compile or obtain from other consultants (if necessary) further documentation as required. Compile and complete Resource Consent application documents.

1.6.3: Application:

Apply for and obtain Resource Consent.

1.6.4: Advice

Advise the architect that Resource Consent has been obtained. When proceeding with tender and building consent documents have been on hold advise architect to proceed.

1.7 Tender and Building Consent Documents

Responsibility:

Pynenburg and Collins Architects Ltd:

- To co-ordinate all consultants to produce a complete and coherent set of tender and building consent documents.

Actions:

1.7.1: Instructions:

Receive sign-off documents and instructions to proceed from DOC Area staff, including any notes on amendments to the Developed Design.

1.7.2: Documents:

Prepare a set of project specific tender and building consent drawings and specification, as outlined in Section 2.

Co-ordinate with the following consultants as required:

- DOC engineer for specific structural design, including tie-downs,
- MiTek New Zealand Ltd for specific roof truss design,
- Lapish Enterprises Ltd for specific foundation design.

From engineers, receive full sets of calculations and Producer Statement PS1 Design forms.

1.7.3: Structural Design loads:

Earthquake, wind and snow loads shall be determined and provided by the DOC engineer in accordance with section 1.3.7. The standard design loads for a 4 – 12 bunk hut are

- floor: 1.5kPa
- deck: 2.0kPa

1.7.4: Forward documents:

Provide an electronic set of the tender and building consent documents in pdf file format to the DOC Area staff and Contract Administrator. As all pages are either A3 or A4 format the Contract Administrator will arrange the photocopying of the number of sets required for building consent application and tender.

1.8 Building Consent and Tender and Contract:

Responsibility:

Contract Administrator:

- To manage the obtaining of a building consent,
- To call tenders and to complete a Contract between DOC and the Contractor for the project.

Actions:

1.8.1: Receive documents:

Receive hut documents from the architect. Review all documents received for completeness and compatibility. Follow up on any errors, omissions or conflicts, and seek clarifications and/or corrections and/or further documentation as required before proceeding. Advise DOC Area staff of any such actions.

1.8.2: Building Consent:

Complete all necessary forms, compile all required documentation and make the building consent application. If there are any technical queries or concerns from the Territorial Authority regarding building code compliance, they are to be referred to the architect and/or the DOC engineer as appropriate for a response. This is necessary to ensure national consistency in what is required for code compliance in huts and hut related work.

Once building consent has been obtained, seek advice from architect and/or DOC engineer as required regarding any conditions imposed by the Territorial Authority. Again, this is necessary to ensure national consistency in what is required for code compliance in huts and hut related work.

Note that the obtaining of a building consent can and shall run concurrently with the calling of tenders, but that choosing a contractor must not proceed until building consent has been obtained.

1.8.3: Calling tenders:

In accordance with DOC's 'General Conditions of Construction Works Contract' (wgnho-121411) call tenders. For guidance on the tendering process follow "Instructions for preparing and tendering contracts" (docdm-304896). In consultation with DOC staff, determine a short list of likely tenderers and any specific local issues or requirements that need to be addressed within the tender process or noted as special conditions of Contract.

Note that the calling of tenders shall run concurrently with the obtaining of a building consent.

To ensure transparency and ease of evaluation of tenders received, and to enable DOC to build up a nation-wide data base of costs, all tenderers shall be required to provide a breakdown of their bid using the following sections:

1. Preliminary & General, and margins
2. Carpentry material
3. Carpentry labour
4. Joinery (doors and windows) supply
5. Plumbing & Drainage
6. Painting
7. Transportation
8. Project specific work (demolition and the like) if applicable
9. Contingency Sum (if applicable)
10. Toilets and ancillary buildings (if applicable) noted separately as a single sum item.

To ensure that the public can be adequately notified of the impact of this work on recreational activities and to enable better management of the building programme request earliest possible start date and planned duration of Contract.

Review tenders received (in particular any tags), discuss with architect and/or DOC engineer as necessary, and report to DOC Area staff on results including recommendation regarding most appropriate Contractor for the project.

1.8.4: Contract:

Upon receiving instructions as to successful Contractor from DOC staff, complete Contract and arrange signing by both parties.

1.9 Construction observation and Contract administration

Responsibility:

Contract Administrator:

- To carry out Contract administration and construction observation tasks as required by the Contract and contract documents, and to ensure that the design intent of the architect is achieved.

Actions:

1.9.1: Observation:

Determine extent and manner of construction observation. Carry out site visits and observation as necessary to be satisfied that the Contractor constructs the hut in accordance with the contract documents.

For any technical queries or issues, which may result in a change of material or detail, refer back to the architect and/or DOC engineer for advice before instructing the Contractor. Do not instruct any changes, nor accept any errors or omissions by the Contractor without prior discussion with the architect and/or DOC engineer to ensure that the design intent is not compromised to the detriment of DOC and/or hut users. Advise DOC staff of intended instructions prior to issuing them to the Contractor.

1.9.2: Contract:

Administer the Contract in accordance with DOC's General Conditions of Construction Works Contract. Ensure that all Instructions and Variations are in writing and copied to DOC staff, the architect and the DOC engineer. Ensure that after Practical Completion is achieved, that all of the Maintenance provisions are followed.

1.9.3: DOC supplied items:

Arrange the delivery and supply of the DOC supplied items as identified in the Contract documents.

1.9.4: Code Compliance Certificate:

Apply for and obtain code compliance certificate.

1.9.5: Completion records:

At the time of the last inspection, after which the Maintenance Certificate can be signed off, obtain the following photographic record:

- aerial view of hut and the site,
- ground perspective view of front of hut,
- each elevation,

- two opposing internal views of the hut,
- where other buildings, one external photo of each.

Provide DOC Area staff with the following documents, if they do not already hold them:

- Building consent
- Code compliance certificate
- All Instructions and Variations
- Copies of Practical Completion and Maintenance Certificates
- Contractor guarantees and Producer Statement (refer 10.5 of the General Conditions of Construction Works Contract)
- Completion photographic record in electronic (.jpg) format

1.10 Feedback

Responsibility:

DOC Area staff:

- To monitor, receive and record information and feedback on improvements to the Process and hut designs.

Actions:

1.10.1: AMIS:

Receive the information from the Contract Administrator as identified under section 1.9.5 and place in AMIS under the new hut asset.

1.10.2: Hut Manual:

Obtain and compile comments and feedback from the Contractor, Contract Administrator, DOC Area staff, public, log book and other sources. Send the first compilation to General Manager Research and Development (Attention Brian Dobbie) within one month of receiving the Maintenance Certificate. Send further compilations as and when new comments or feedback are received.

Section B2: Technical Information

2.1 Purpose

To record and provide current best practice for the design and construction of DOC's small (4, 6, 10 and 12 bunk) backcountry huts as required by the Process in Section 1; to optimise the time and reduce the cost involved in the design and documentation of each hut; to enable the design and documentation to be relevant and specific to each hut; and to enable nation-wide consistency in statutory compliance (ie building, fire safety, and health and safety).

In order to achieve this Purpose, this section is structured for the use of the architect in preparing the documents required by the Process. It is not intended that other parties involved in the Process use this section. The information recorded in this section forms the base information from which the architect completes the documents required at different stages of the Process.

2.2 Document Sets

From the Process there are two key document sets

- **Developed Design (refer section 1.4 above)**

  Commencing from the Developed Design Base documents (drawings as per sections 2.3.1 and 2.3.2 below and outline specification as per part G1), a Developed Design is produced. The Developed Design fixes the location, project scope, design options, features, fittings and fixtures options, and cladding selection for the hut as well as identifying structural specific design issues. As required the following Parts of this manual are to be referred to:

  Part E4 for Alpine environments

  Part E5 for coastal or geothermal environments

  Part F1: for Pit toilets

  Part F2: for grey water systems

  The Developed Design is forwarded to both the DOC Area staff and the General Manager Research and Development for approval and sign-off prior to the commencement of tender and building consent documentation.

  If there are technical issues in the Developed Design that are best confirmed or resolved by a site visit, then a site visit is undertaken. This is only likely where there are concerns over ground conditions for foundation design, pit toilet or grey water provision, ground slopes and/or the extent of excavation required, the site is small or in some way constrained, or if there are matters involving the exact location and/or orientation of the hut on site.

  Further to the site visit, and the obtaining of the necessary information, the tender and building consent documents can be compiled.

- **Tender and Building Consent (refer section 1.7 above)**

  The tender and building consent documents comprises the following:

  i) The Developed Design drawings, including any amendments required subsequent to the site visit, as per section 2.4.2 below,

  ii) The relevant construction details sheets (refer part E1 of this manual),

  iii) The relevant fixtures and fittings sheets (refer part E2 of this manual),

  iv) The relevant water supply sheets (refer part E3 of this manual),

  v) Toilet documentation (refer part F1 of this manual),

  vi) Grey water documentation (refer part F2 of this manual),

  vii) The tender and building consent specification (refer Part G2 of this manual),

  viii) Amendments as required for alpine environments (refer part E4 of this manual), or coastal or geothermal environments (refer Part E5 of this manual).

  ix) Specific design information from the following consultants:

  - DOC engineer for specific structural design, including tie-downs,
  - MiTek New Zealand Ltd for specific roof truss design,
  - Lapish Enterprises Ltd for specific foundation design.

  These documents provide the necessary technical building information required for the construction of the hut to the design and scope determined by the Developed Design documents. There are no changes made at this time relating to any design decisions made before or during Developed Design. These documents are used for tender, building consent and construction.

This section outlines how the architect will produce the drawings for these two document sets by referring to the base information contained in the Appendices.

2.3 Developed Design documents

2.3.1: Base drawings:

There is a set of Developed Design base drawings for 4 bunk huts (appendix B1.1), 6 bunk huts (appendix B1.2), 10 bunk huts (appendix B1.3) and 12 bunk huts (appendix B1.4). These drawings are:

• Sheet 1	Site Plan	1:200
• Sheet 2	Floor Plan	1:50
• Sheet 3	Four Elevations	1:100
• Sheet 4	Cross Section A	1:50
• Sheet 5	Cross Section B	1:50
• Sheet 6	Foundation Plan	1:50

- Sheet 7 Bracing Plan 1:50
- Sheet 8 Window & Door Schedule 1:50

If Design Options for either a deck or a deck/roof are selected under section 1.3.8, then most base drawings will be selected from Appendix B2, being for 4 bunk huts from appendix B2.1, for 6 bunk huts from appendix B2.2, for 10 bunk huts from appendix B2.3 and for 12 bunk huts from appendix B2.4.

Some sheets are still used from Appendix B1, being:

4 and 6 Bunk hut: sheets 5 and 8

10 and 12 bunk hut: sheets 4 and 8

2.3.2: Drawing Procedure:

If the hut is in an Alpine or harsh environment refer also to Parts E4 and E5 for additional annotations and amendments.

Otherwise, other than the annotations and amendments noted below it is expected that generally no other work is required.

All Sheets

- Complete Title Block with hut specific information.

Sheet 1 Site Plan

- The base drawing has the hut floor plan at 1:200. Select the base drawing that reflects the deck/roof Design Options selected.
- Confirm north point and complete Design Criteria.
- Draw to scale the existing site details as included in the site plan provided by the DOC Project Manager.
- Annotate the site plan to reflect the scope of work, including the location of any water tank, external sink, toilet and/or wood shed as identified by the DOC Project Manager. If an external sink is selected include a grey water system in an appropriate location.

Sheet 2 Floor Plan

- Select the base drawing that reflects the deck/roof Design Options selected.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheet 3 Four Elevations

- Select the base drawing that reflects the Design Options selected.
- Amend drawing to reflect ply and batten cladding if chosen.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- Amend ground lines to reflect on-site contours.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheets 4 & 5 Cross sections A & B

- Select the base drawing that reflects the Design Options selected.
- Amend drawing to reflect ply and batten cladding if chosen.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- Amend ground lines to reflect on-site contours.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheet 6 Foundation Plan

- Select the base drawing that reflects the Design Options selected.
- If water tank stand not required, delete from drawing.
- If ground levels and/or falls require stairs to be shifted, and/or other information to be changed, amend drawings as required.

Sheet 7 Bracing Plan

- Select the base drawing that reflects the Design options selected.
- If multifuel burner not required, delete from drawing.
- If ground levels and/or falls require stairs to be shifted, and/or other information to be changed, amend drawings as required.

Sheet 8 Window and Door Schedule

- Amend the drawing as required to reflect the features, fittings and fixtures selected from the following list:
    - Insect proofing (screens, seals, etc)

2.3.3: Developed Design Specification:

Part G1 of this manual contains a base Developed Design specification for 4 and 6 bunk huts (Appendix G1.1) and another for 10 and 12 bunk huts (Appendix G1.2). Commence with the appropriate Base Developed Design Specification and by following the associated guidelines create a project specific Developed Design Specification. It is expected that, other than completing the hut specific information at the start of the specification, the rest of the specification will be completed by deleting clauses that do not apply, and there will be no need to add hut specific clauses.

If the hut is in an Alpine or harsh environment refer also to Parts E4 and E5 for additional annotations and amendments.

If a pit toilet or a grey water disposal system is required refer to either Part F1 or F2 for additional annotations and amendments.

2.3.4: DOC Engineer

Co-ordinate and co-operate with the DOC Engineer where the design loads and/or ground conditions provided are outside the parameters of NZS 3604. Identify which of the following specific structural systems, members and/or fixings of the hut require specific design:

- Foundations (only if site is unsuitable for Conqra or NZS 3604 system)
- Snow load
  - Window lintel sizes
  - Verandah beam size
  - Verandah rafter size/spacing
  - Purlin size/spacing
- Wind load
  - Plate/stud fixings
  - Truss/top plate fixings
  - Verandah rafter fixings to verandah beam and top plate
  - Purlin/rafter and/or purlin/truss fixings
  - Bracing
  - Tie-downs

Forward a request to the DOC engineer to provide specific design input (calculations, sizing and details as required).

Receive, review and provide comment on design input from DOC Engineer. Manage the amendment of such documents if required. Co-ordinate and incorporate design input into Developed Design.

2.4 Tender and Building Consent documents

2.4.1: Base Drawings:

Base drawings are obtained from the following sources:

- Developed Design drawings (sheets 1 – 8) as per section 2.3.2
- Standard construction details Part E1
- Standard fittings and fixtures Part E2
- Water Supply Part E3
- Toilets Part F1
- Grey water Part F2

For alpine environments refer to part E4 of this manual, and for coastal or geothermal environments refer to Part E5 of this manual for relevant base drawings and instructions regarding annotations and amendments to the base drawings.

Otherwise, other than the amendments and annotations required to the Developed Design drawings there should be no need to make any amendments to the standard drawing sheets for the project.

2.4.2: Drawing Procedure:

Developed Design drawings (sheets 1 – 8)

- Further to comments from the DOC Area staff and/or the outcome of a site visit, these sheets are to be amended as required.
- Further to finalising information received from MiTek amend sheets as required to accurately represent the sizes and spacings of trusses and members. Only the sections (sheets 4 and 5) should require amendment, if at all.
- Further to finalising information received from Lapish Enterprises amend sheets as required to accurately represent the design and layout of the foundations. Only the cross sections (sheets 4 and 5) and the foundation plan (sheet 6) should require amendment, if at all.

Standard construction details:

- Using the table provided select the appropriate sheets from those available within Part E1 that reflect the combination of design options, features and cladding selected.

Standard fixtures and fittings:

- Using the table provided select the appropriate sheets from those available within Part E2 that reflect the combination of fixtures and fittings selected.

Water supply:

- Using the table provided select the appropriate sheets from those available within Part E3 that reflect the combination of fixtures and fittings selected.

Toilets:

- Using the table provided select the appropriate sheets from those available within Part F1 that reflect the combination of fixtures and fittings selected.

Grey Water:

- Using the table provided select the appropriate sheets from those available within Part F2 that reflect the combination of fixtures and fittings selected.

2.4.3: Specification:

Commence with the Base tender and building consent specification included in Part G2 and by following the instructions/prompts of the hidden text, and deletion of non-applicable paragraphs create a project specific Specification.

It is expected that, other than completing the hut specific information (which should be the same as that included in the Developed Design specification) at the start of the specification, the rest of the specification will be completed by deleting clauses that do not apply and/or following the instructions in the 'hidden' text, and that there will be no need to add hut specific clauses.

Include the necessary information in the specification appendices as follows:

- Appendix A – standard bracing information
- Appendix B – roof truss information
- Appendix C – foundation design
- Appendix D –Structural Engineer (if required)

2.4.4: Other Consultants

For other consultants, direct and co-ordinate the provision and inclusion of their designs, documentation and information requirements into the Tender and Building Consent documents.

- DOC engineer:

  If all information and advice has not been provided as part of the Developed Design documentation, obtain any that is outstanding.

- MiTek New Zealand Ltd:

  Forward Developed Design drawings, together with design loads, and obtain documentation for specific design roof trusses.

- Lapish Enterprises Ltd:

  Forward Developed Design drawings, together with design loads, and obtain documentation for specific foundation design.

  Calculations, Producer Statement PS1 Design, and other documents necessary for building consent shall be compiled and included with the document set.

Appendix B1:

Base Developed Design Drawings

1. Contents

Appendix B1 contains the Base Drawings from which the Developed Design drawings are derived in accordance with section 2.3.

These drawings are located in four separate appendices related to hut size:

- Appendix B1.1: 4 bunks
  - Colorsteel cladding
- Appendix B1.2: 6 bunks
  - Colorsteel cladding
- Appendix B1.3: 10 bunks
  - Colorsteel cladding
- Appendix B1.4: 12 bunks
  - Colorsteel cladding

If Design Options have been selected for 4, 6, 10 or 12 bunk huts then the base drawings will be obtained from Appendix B2, apart from the following, which will still be obtained from Appendix B1:

- 4 and 6 bunk hut: sheets 5 and 8
- 10 and 12 bunk hut: sheets 4 and 8

Appendix B1.1: 4 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title	Version	Date issued
01	4 bunk hut base drawing Site plan	4.0	March 2009
02	4 bunk hut base drawing Floor Plan	4.0	March 2009
C03	4 bunk hut base drawing Elevations	4.0	March 2009
C04	4 bunk hut base drawing Section A-A	4.0	March 2009
C05	4 bunk hut base drawing Section B-B	4.0	March 2009
06	4 bunk hut base drawing Foundation Plan	4.0	March 2009
07	4 bunk hut base drawing Bracing Plan	4.0	March 2009
08	4 bunk hut base drawing Window & Door Schedule	4.0	March 2009

Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 04, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

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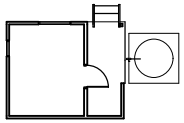
DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



proposed
hut

site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B1.1

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Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

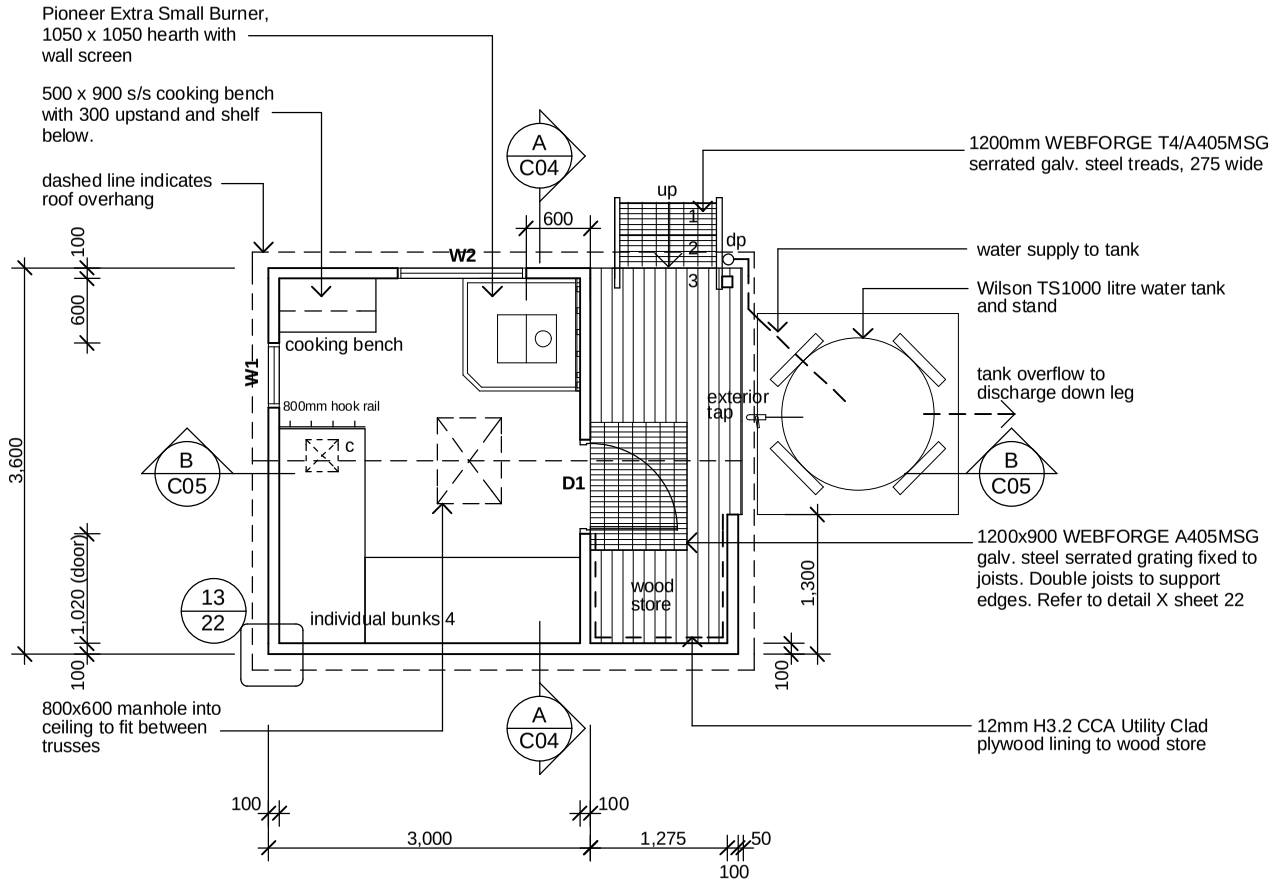
AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	01	

DATE xyz



floor plan

1:50

note:

1. c indicates 300x300 HOLYOAKE ceiling vent grill, model EC-125

2 / 3 / 1 / 4 elevation key

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50 @ A3 SHEET SIZE

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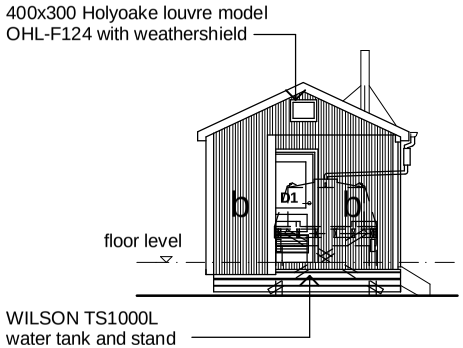
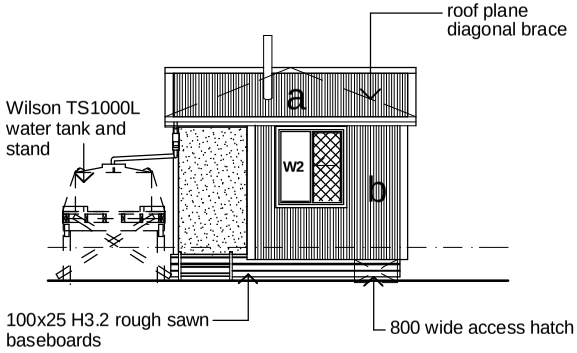
RP	GR	RP	xyz	02	

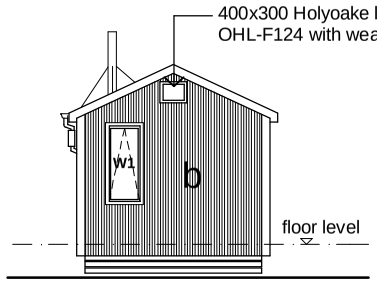
DATE xyz



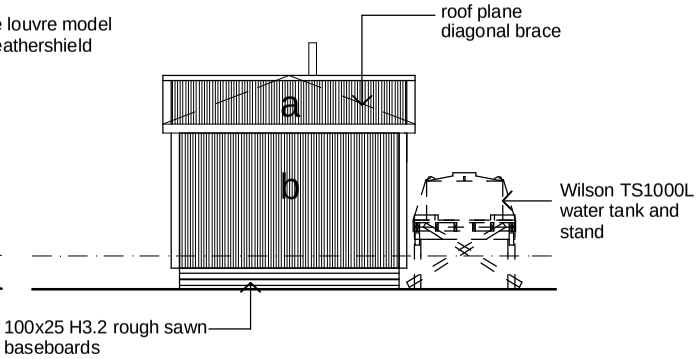
elevation 1 scale 1:100



elevation 2 scale 1:100



elevation 3 scale 1:100



elevation 4 scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03	

DATE xyz

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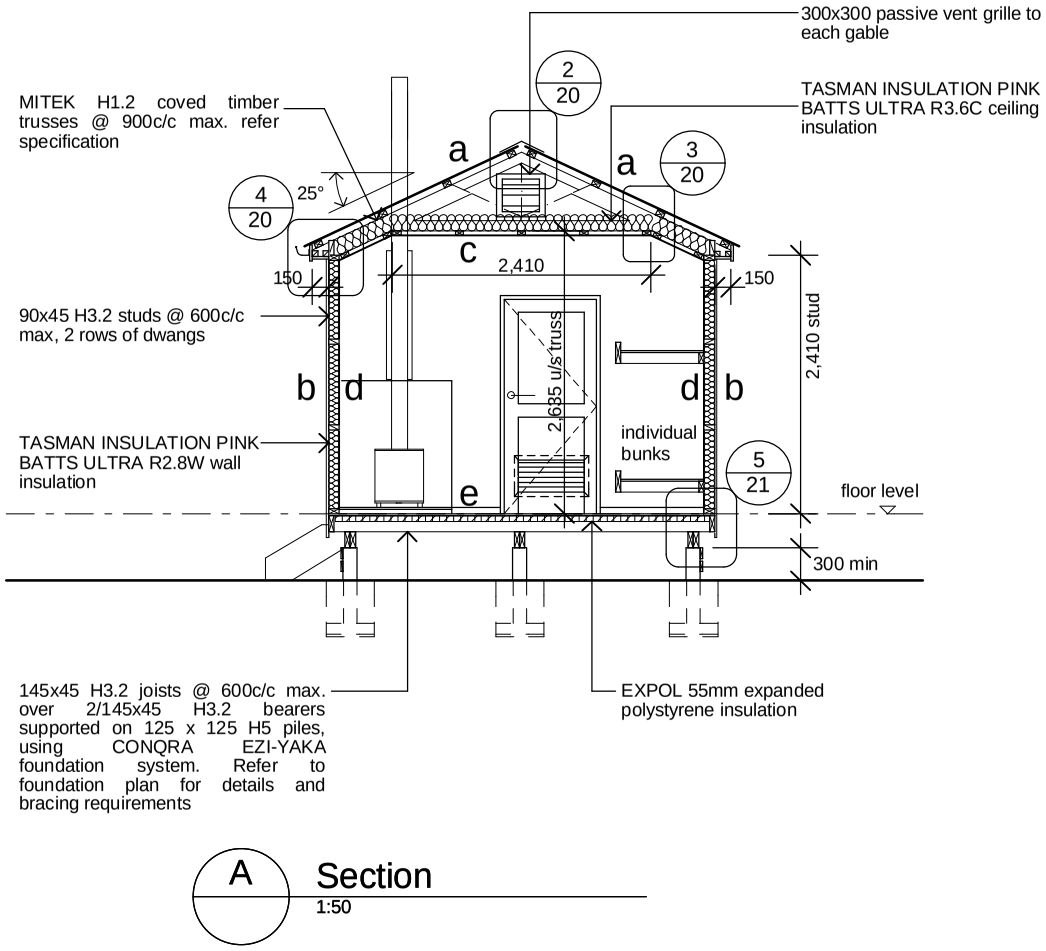

A Section
1:50

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
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Drawing Issue and Amendments

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section A

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04	

DATE xyz

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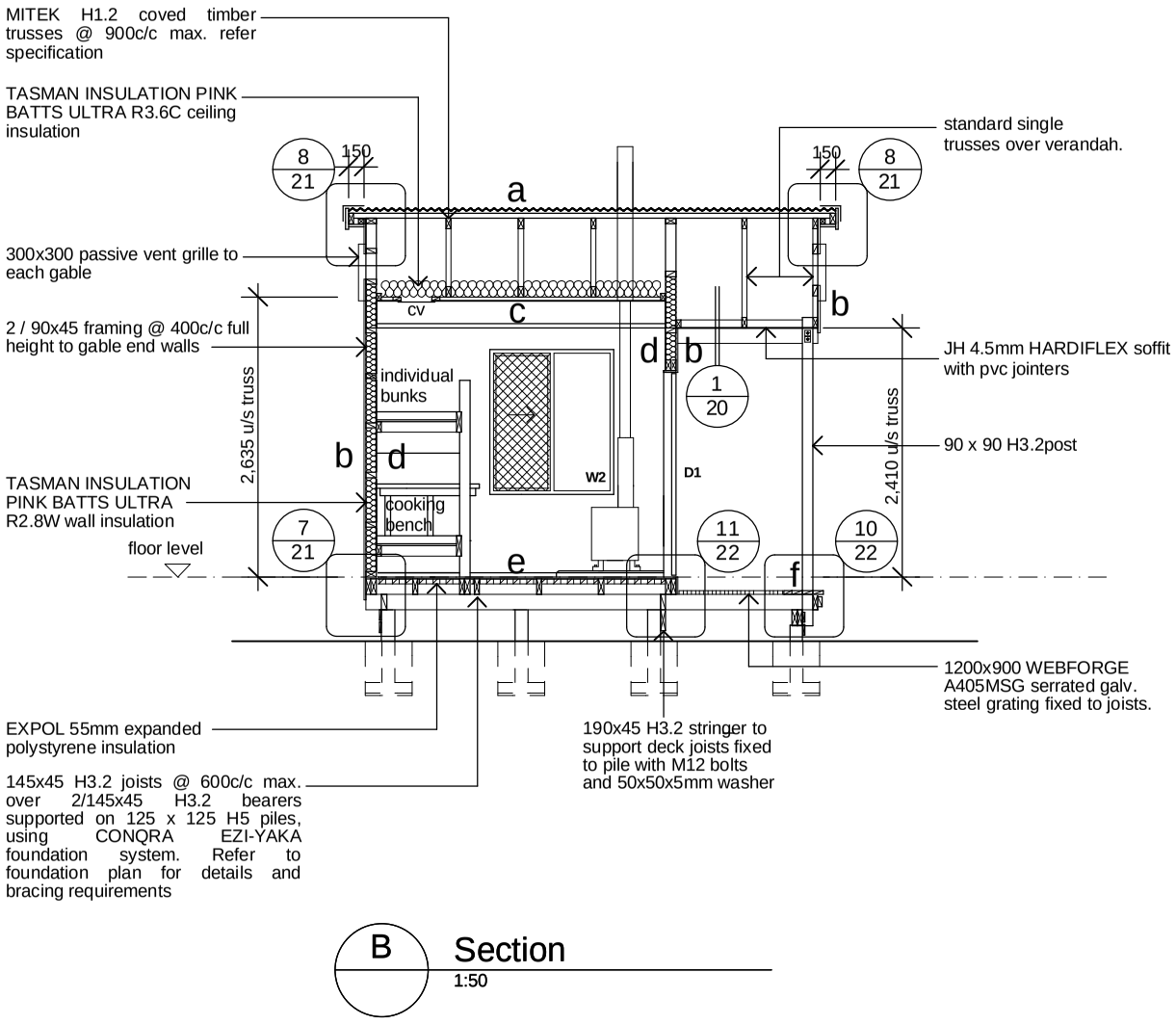

B Section
1:50

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05	

DATE xyz

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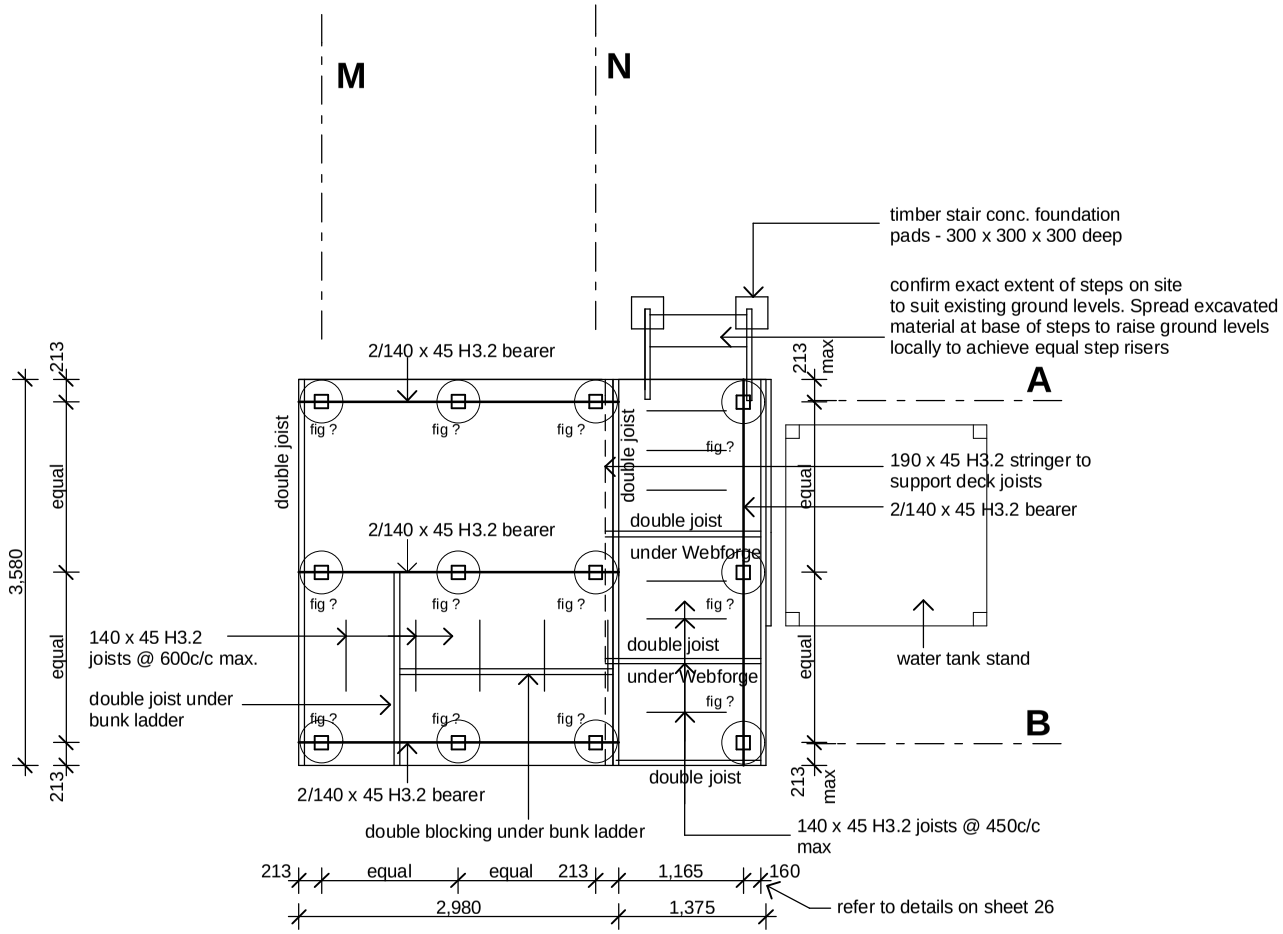

foundation plan

1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. fig2 — refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B1.1

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PROJECT	**HUT NAME**
LOCATION	LOCATION NAME NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME
SHEET CONTENTS	foundation plan
SCALES	1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06	

DATE xyz

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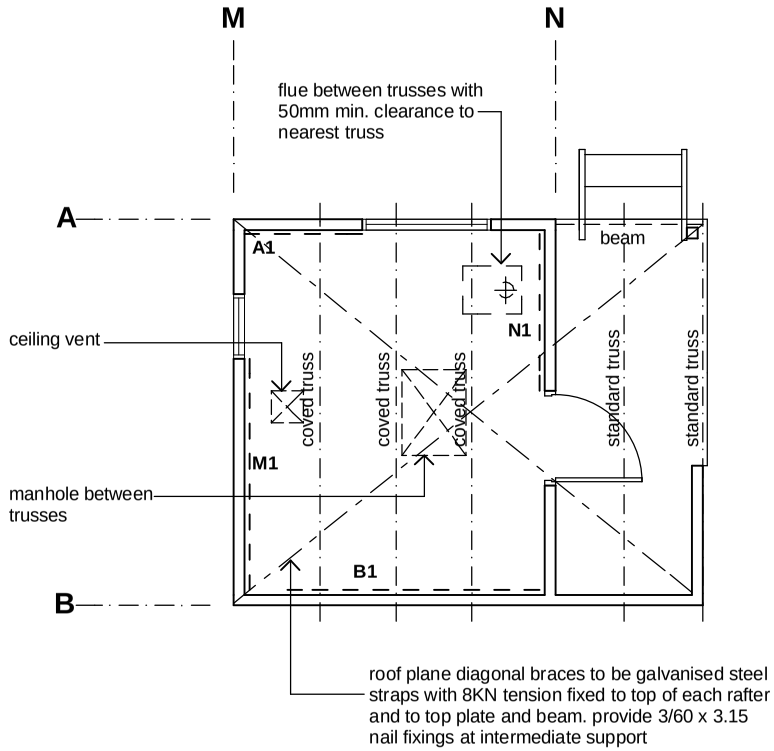
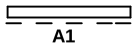


bracing plan

1:50

note:

1. 

indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B1.1

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07	

DATE xyz

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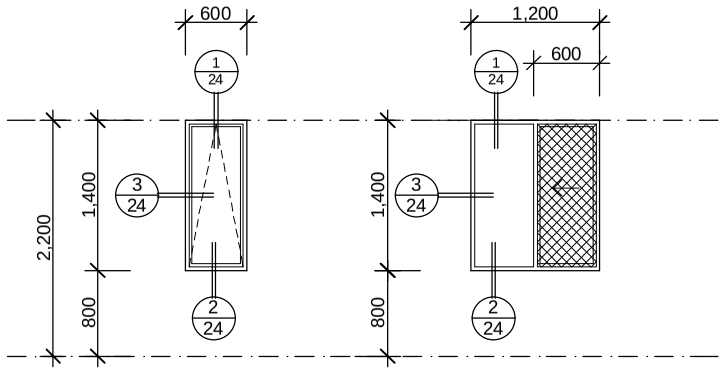
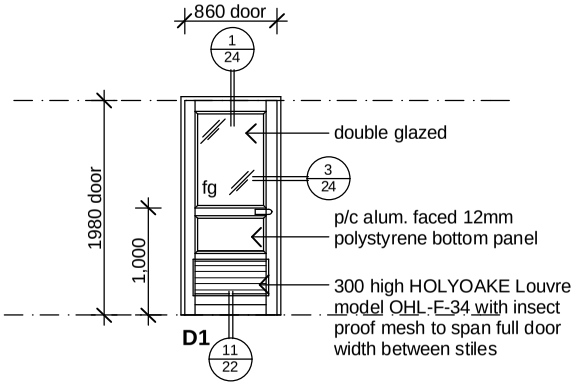


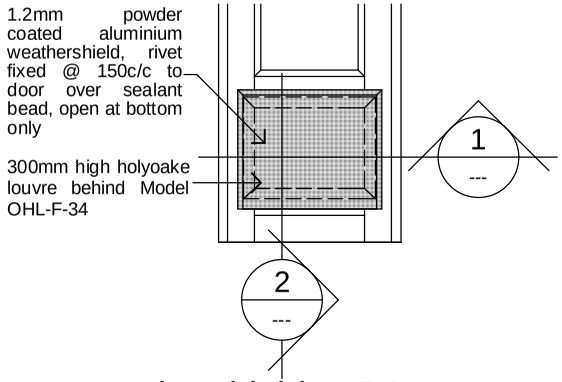
W1 **W2**

note:

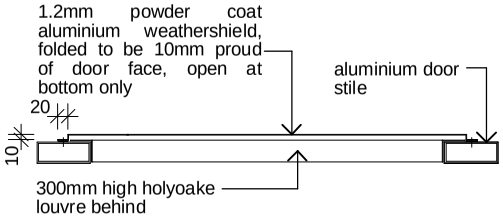
1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, awning sash, with a 150mm restricter fitted.
2. W2 to be FIRST powder coated SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

window schedule Scale 1:50

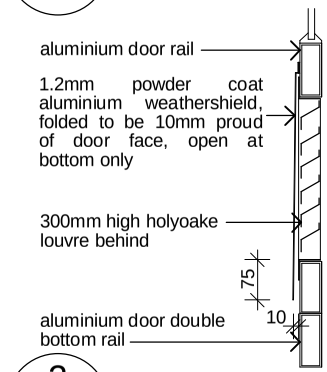




weathershield to D1 1:20



1
-
1:10



2
-
1:10

note:

1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule Scale 1:50

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B1.1

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Department of Conservation
Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS window & door schedule

SCALES 1:50, 1:20, 1:10 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	08	

DATE xyz

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Appendix B1.2: 6 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

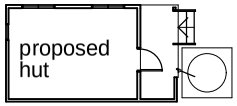
Sheet	Title	Version	Date issued
01	6 bunk hut base drawing Site plan	4.0	March 2009
02	6 bunk hut base drawing Floor Plan	4.0	March 2009
C03	6 bunk hut base drawing Elevations	4.0	March 2009
C04	6 bunk hut base drawing Section A-A	4.0	March 2009
C05	6 bunk hut base drawing Section B-B	4.0	March 2009
06	6 bunk hut base drawing Foundation Plan	4.0	March 2009
07	6 bunk hut base drawing Bracing Plan	4.0	March 2009
08	6 bunk hut base drawing Window & Door Schedule	4.0	March 2009

Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 04, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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Department of Conservation
Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	01	

DATE xyz

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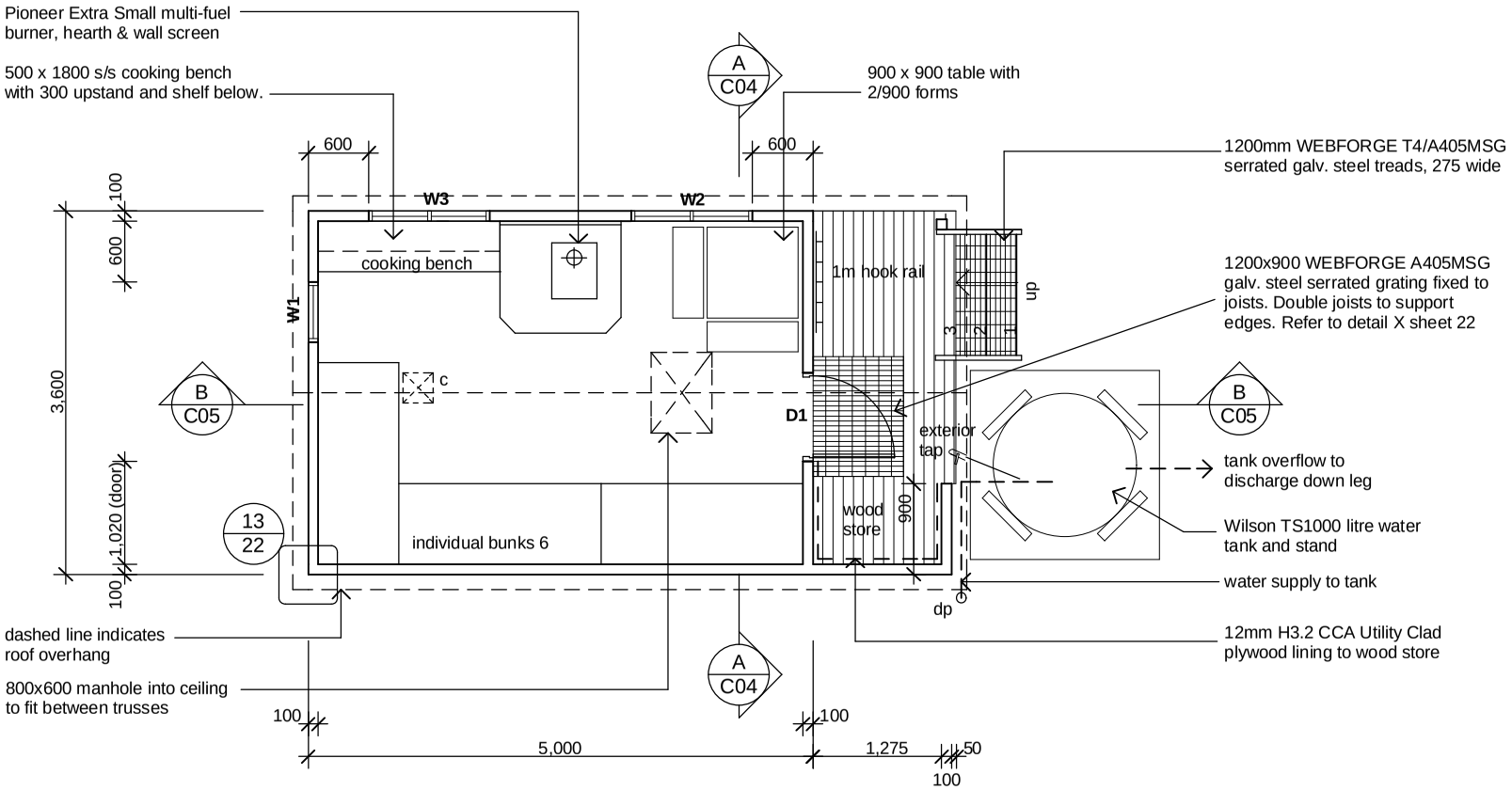
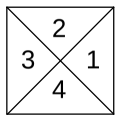


floor plan

1:50

note:

1. c indicates 300 x 300 HOLYOAKE ceiling vent grill, model EC-125



elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02	

DATE: xyz

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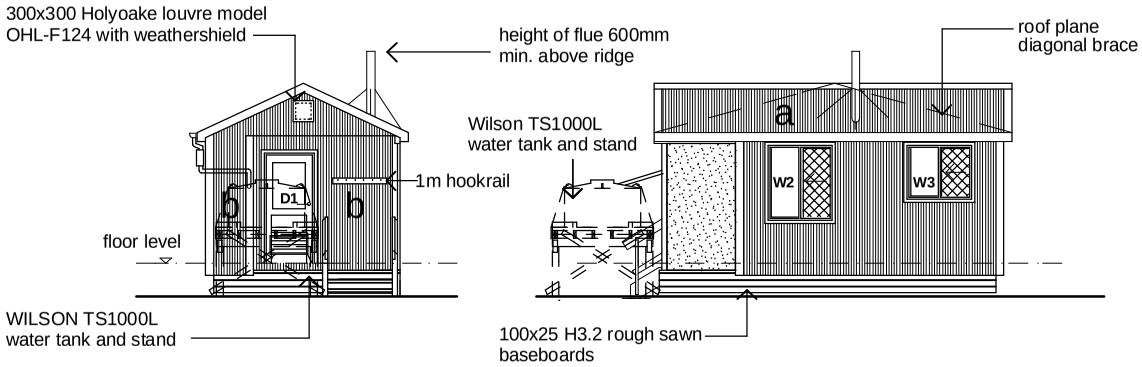
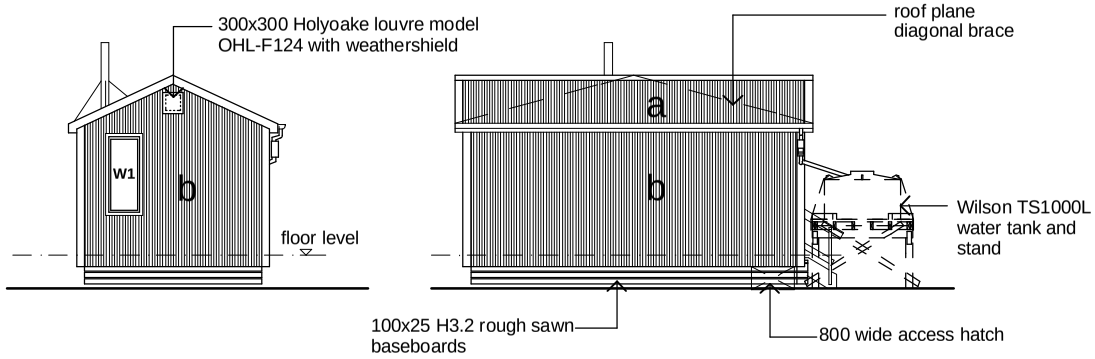


elevation 1 Scale 1:100

elevation 2 Scale 1:100



elevation 3 Scale 1:100

elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03	

DATE xyz

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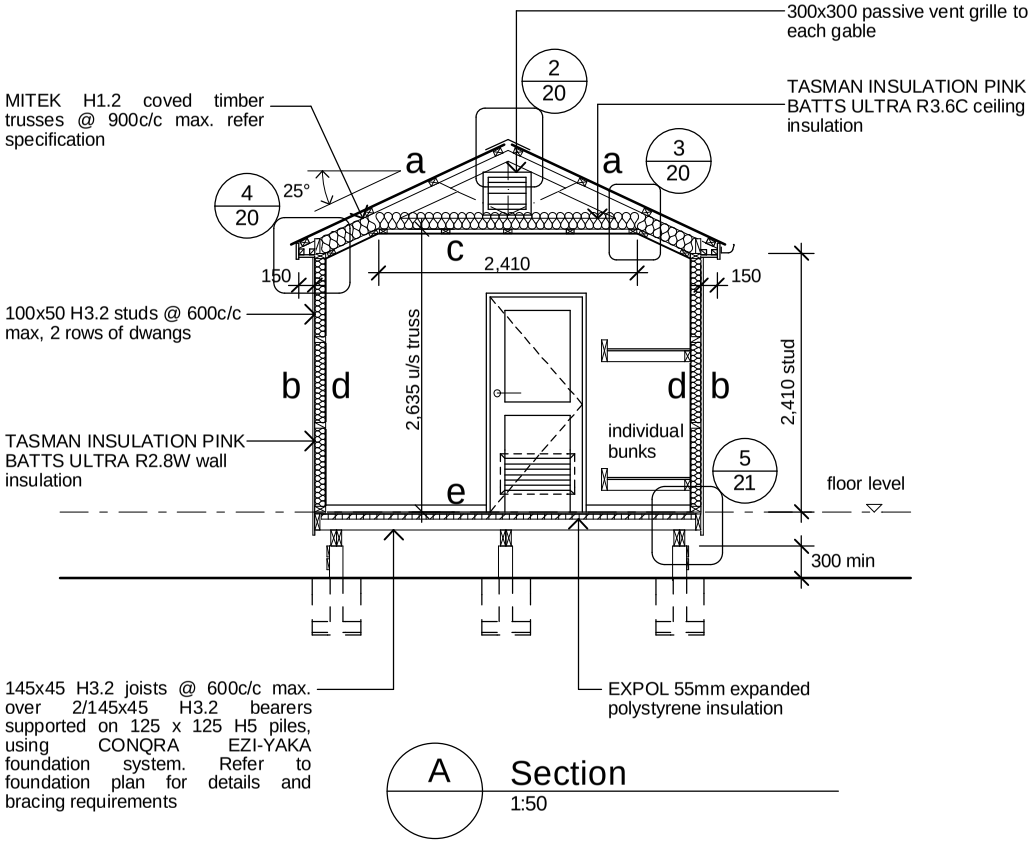

Material Note:

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REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section A

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04	

DATE xyz

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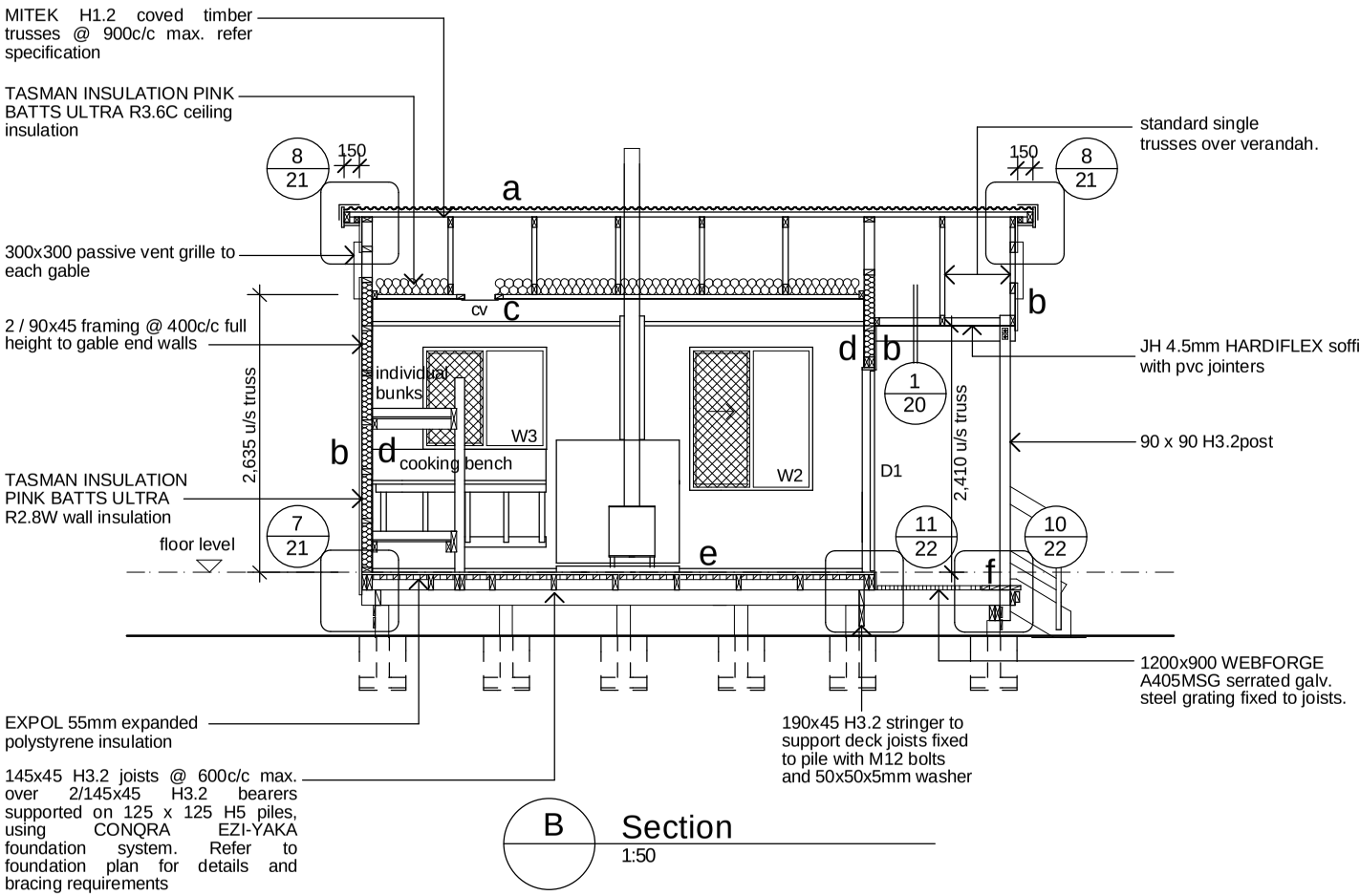

B Section
1:50

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

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REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05	

DATE: xyz

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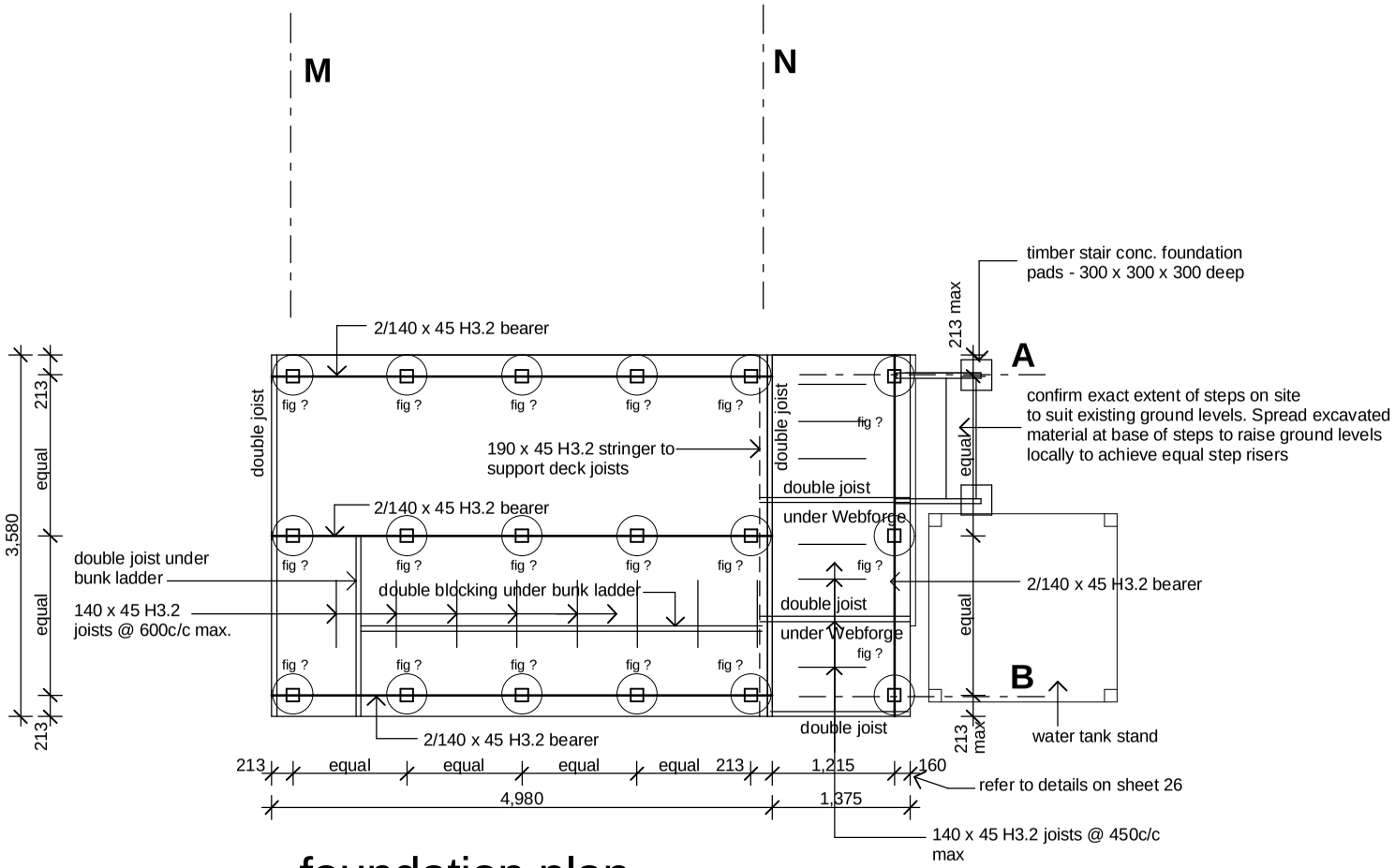

foundation plan

1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. fig2 — refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06	

DATE xyz

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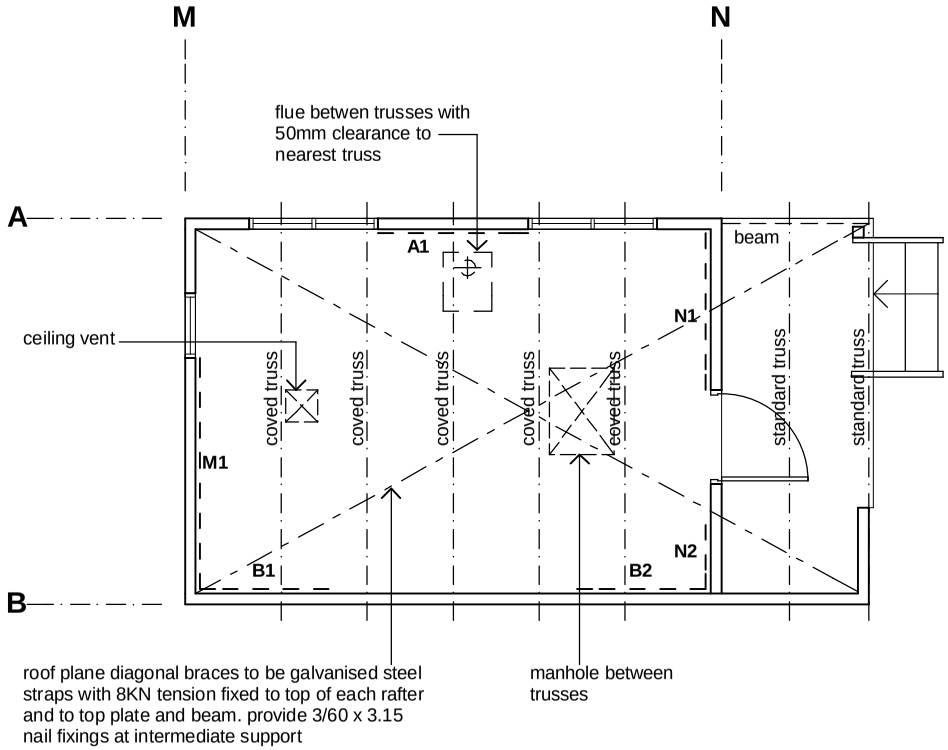
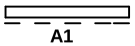


bracing plan

1:50

note:

1. 

indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07	

DATE xyz

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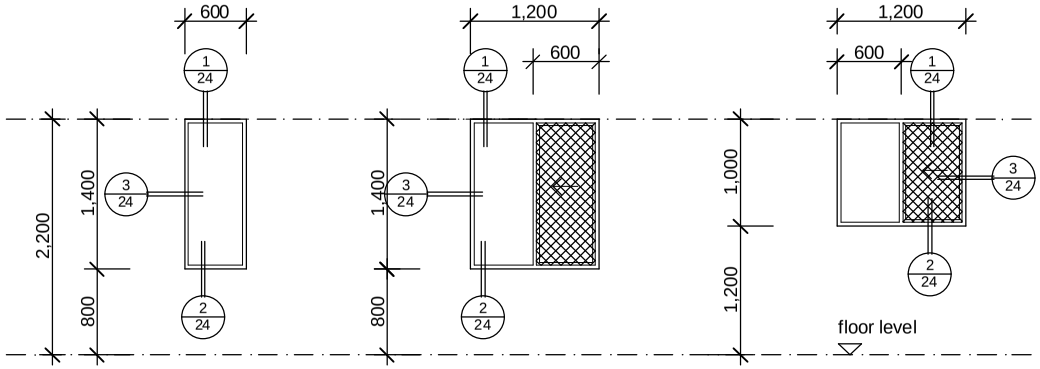
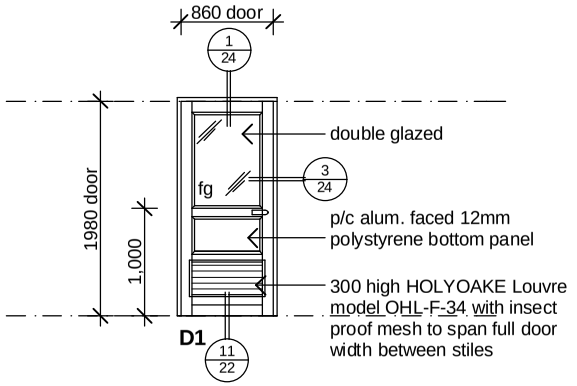


W1 **W2** **W3**

note:

1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
2. W2, and W3 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

window schedule Scale 1:50

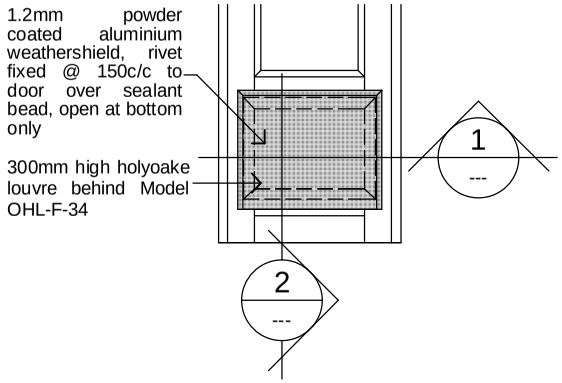


D1

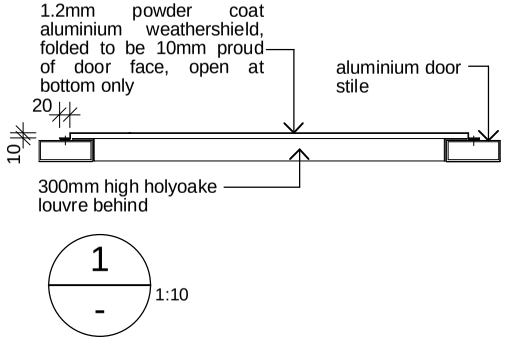
note:

1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

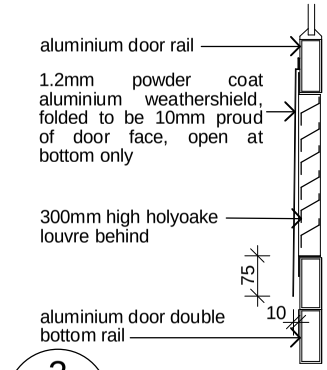
door schedule Scale 1:50



weathershield to D1 1:20



1 / - 1:10



2 / - 1:10

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B1.2

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS window & door schedule

SCALES 1:50, 1:20, 1:10 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	08	

DATE xyz

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Appendix B1.3: 10 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title		Version	Date issued
01	10 bunk hut base drawing	Site plan	4.0	March 2009
02	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03	10 bunk hut base drawing	Elevations	4.0	March 2009
C04	10 bunk hut base drawing	Section A-A	4.0	March 2009
C05	10 bunk hut base drawing	Section B-B	4.0	March 2009
06	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07	10 bunk hut base drawing	Bracing Plan	4.0	March 2009
08	10 bunk hut base drawing	Window & Door Schedule	4.0	March 2009

Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 05, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
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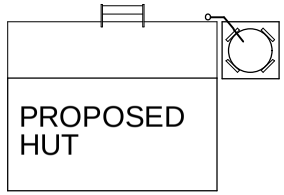
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3

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PROJECT	**HUT NAME**
LOCATION	LOCATION NAME NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME
SHEET CONTENTS	site plan
SCALES	1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	**01**	

DATE xyz

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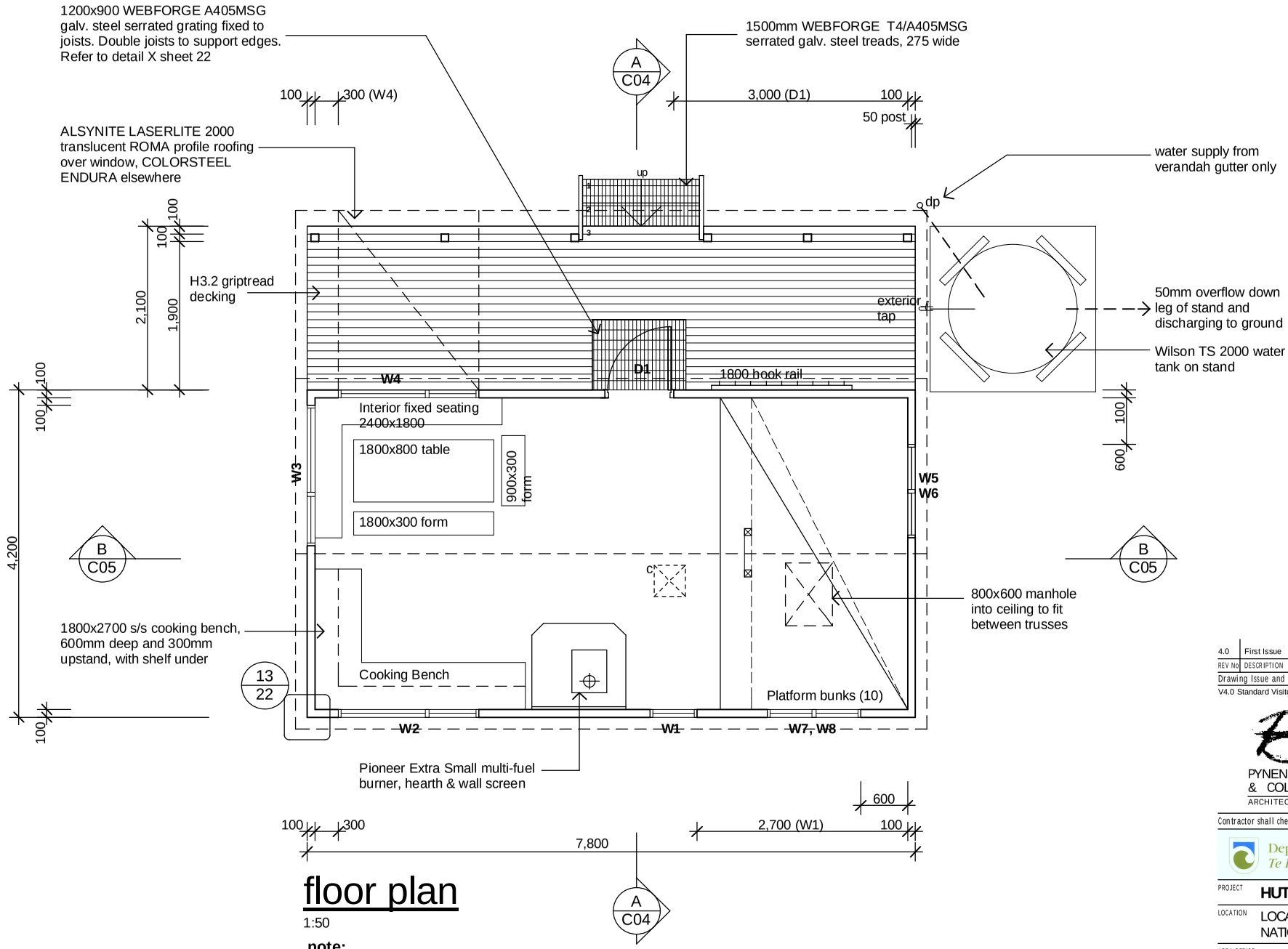

floor plan

1:50

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 2 3 4 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02	

DATE xyz

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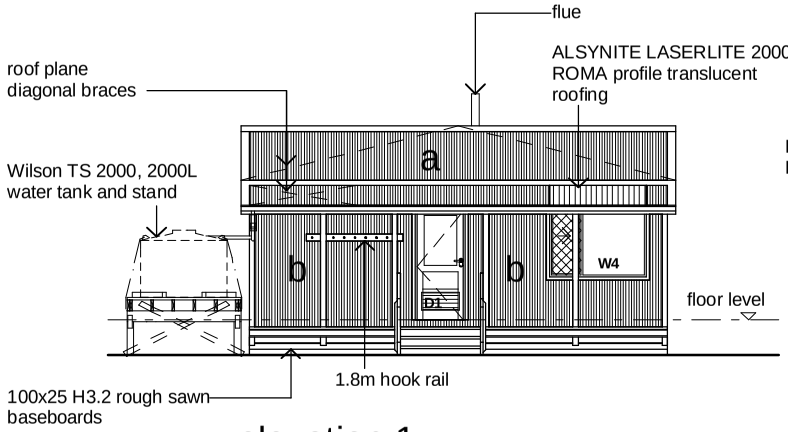
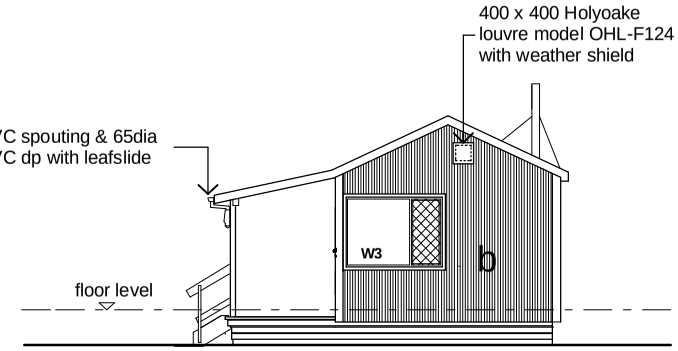
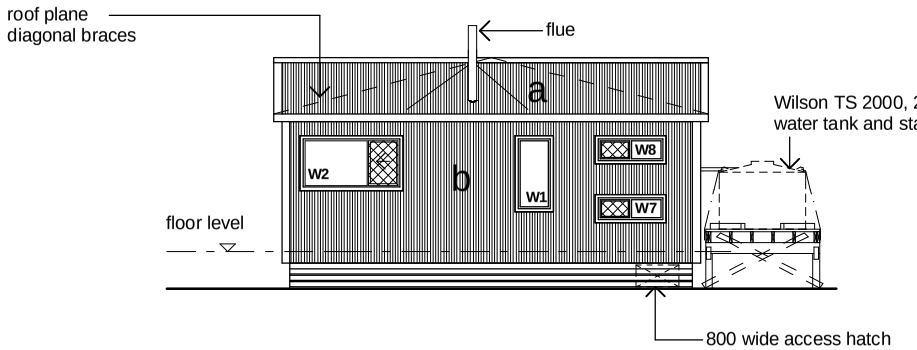


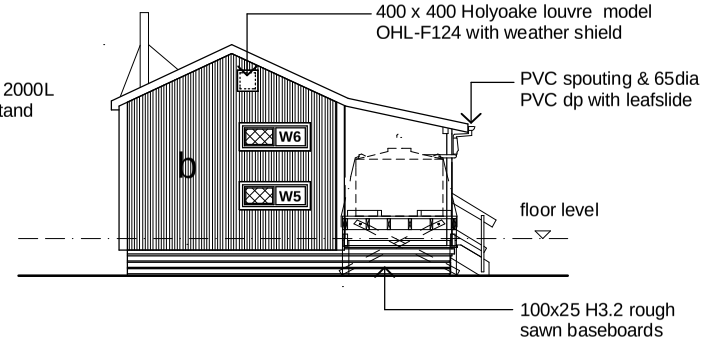
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

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e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3

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Contractor shall check all Dimensions on site prior to construction

Department of Conservation
Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03	

DATE xyz

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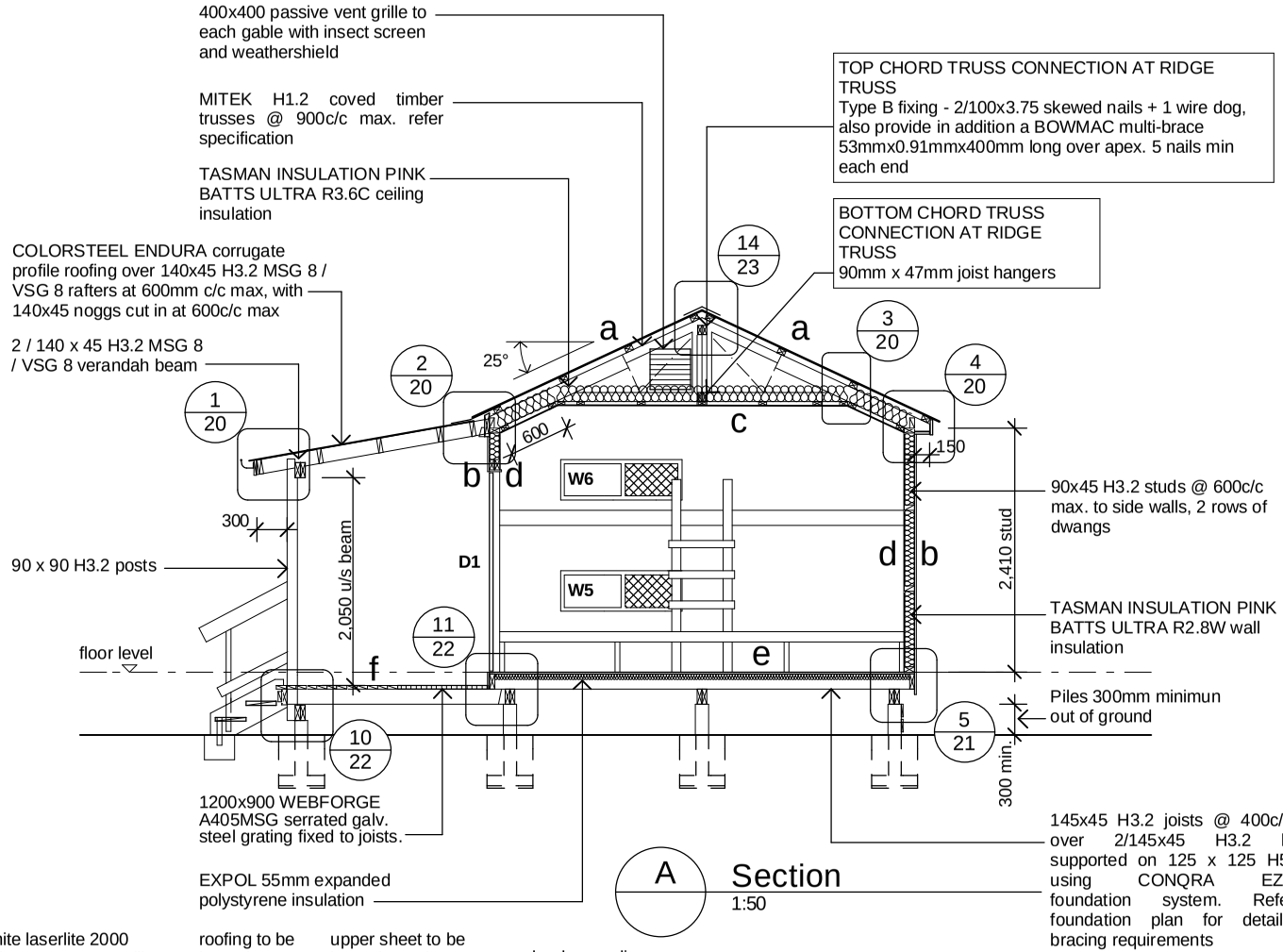

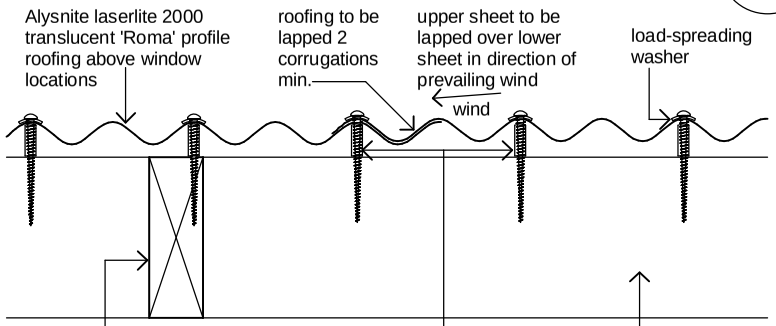

alsynite fixing detail
1:5

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: section A

SCALES: 1:50, 1:5 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04	

DATE: xyz

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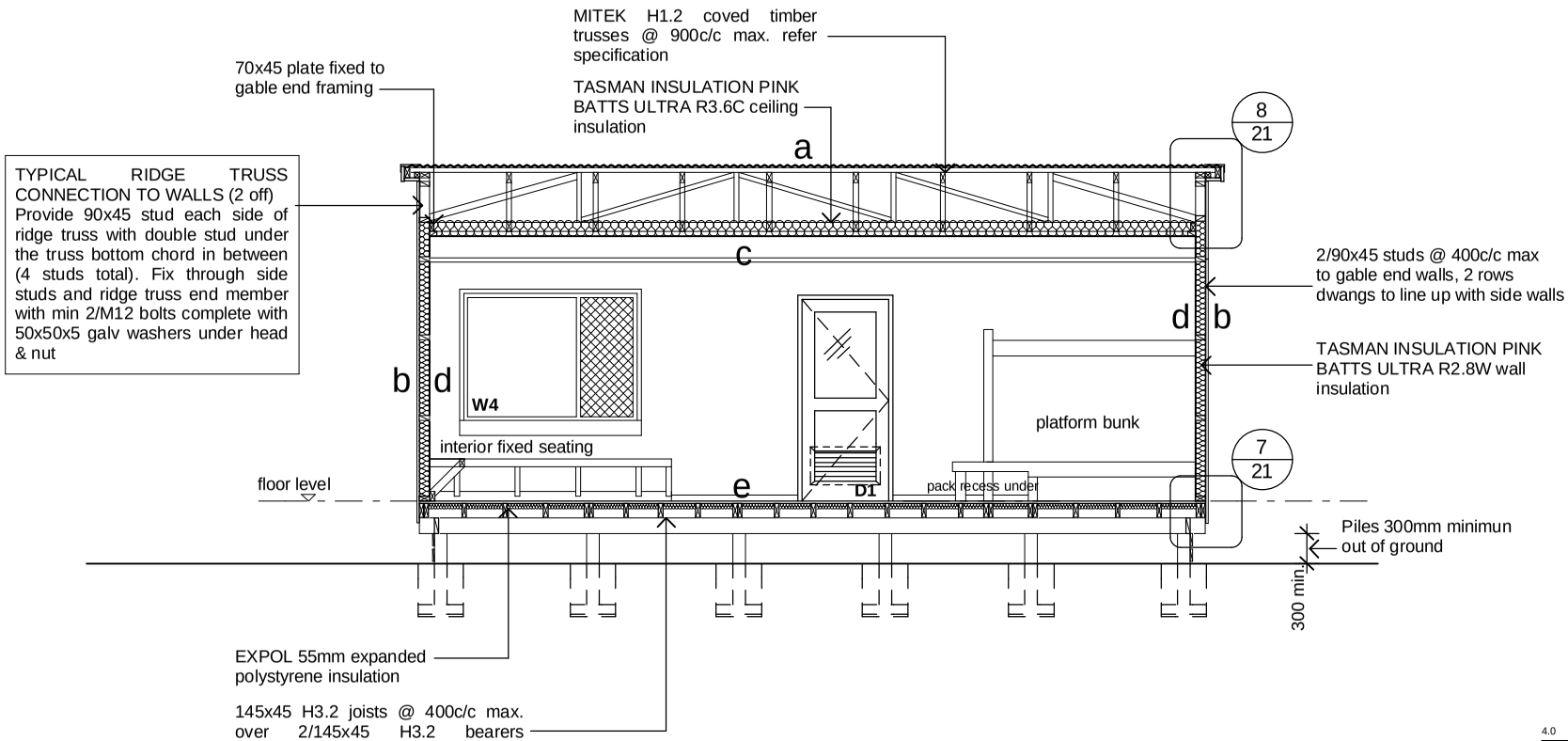

B Section
1:50

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4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments
V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3

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PROJECT **HUT NAME**
LOCATION LOCATION NAME
NATIONAL PARK NAME
AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B
SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05	

DATE xyz

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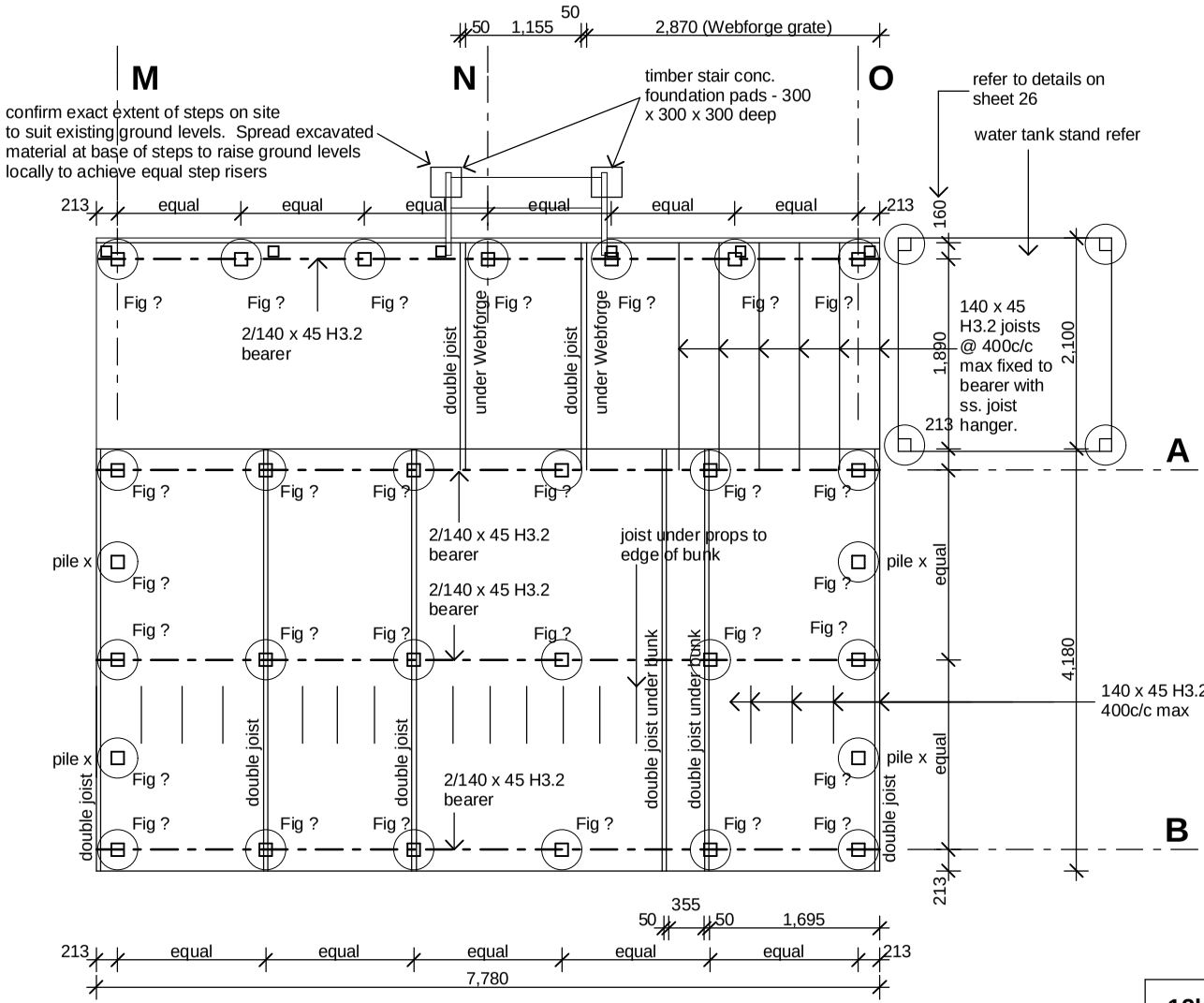


foundation plan

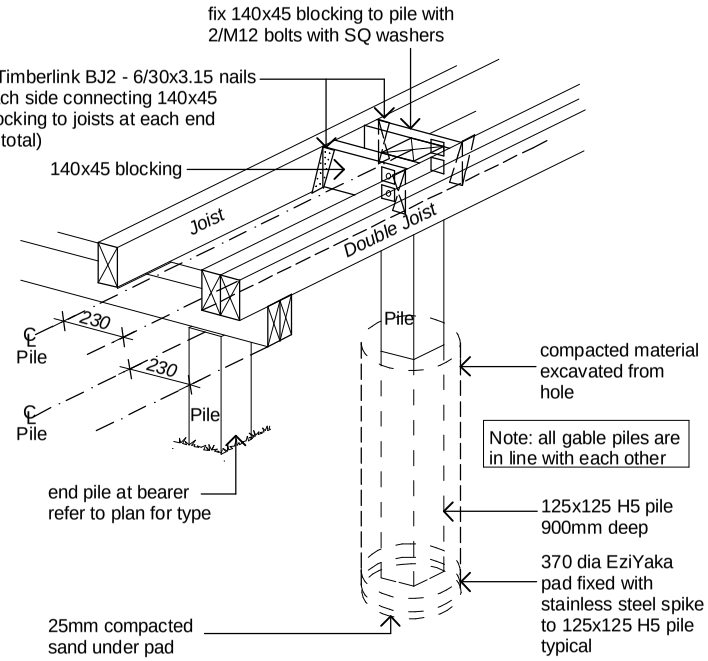
1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06	

DATE: xyz

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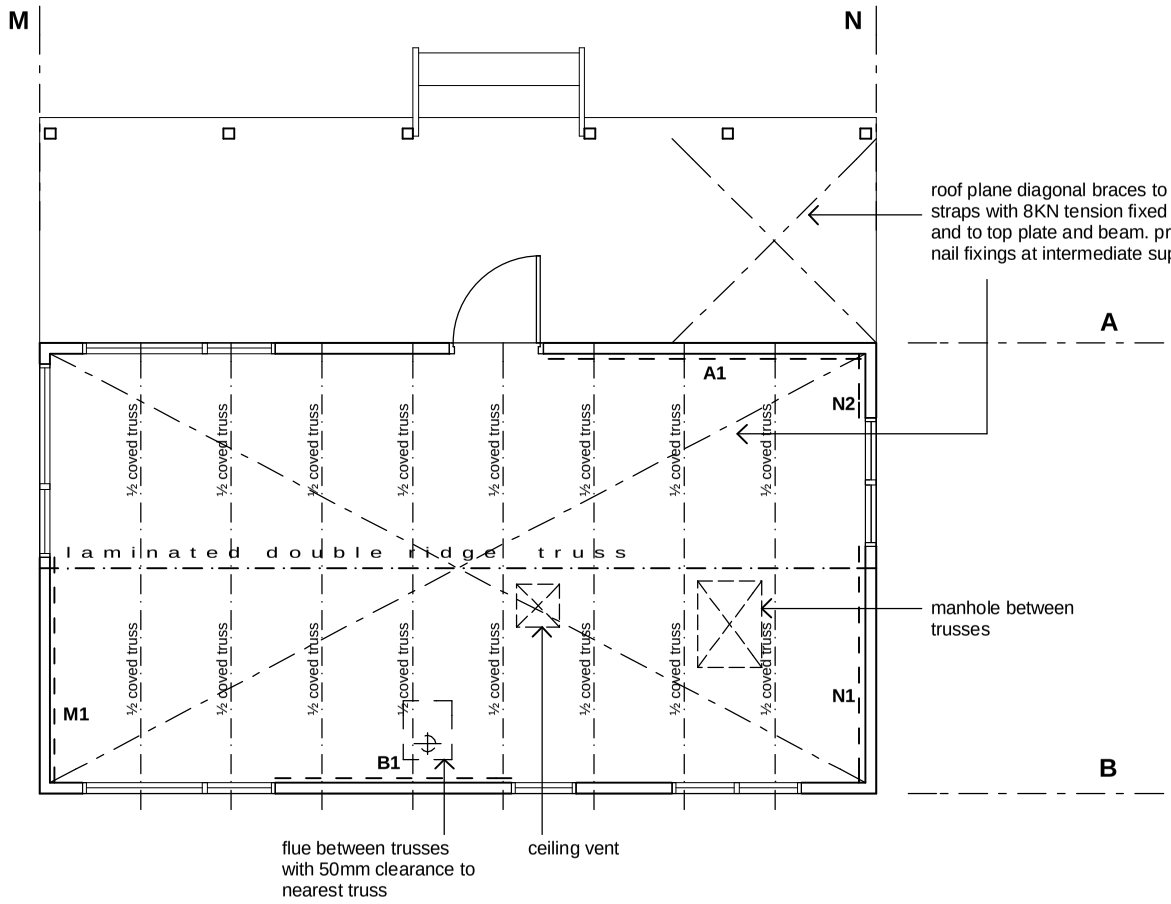

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07	

DATE: xyz

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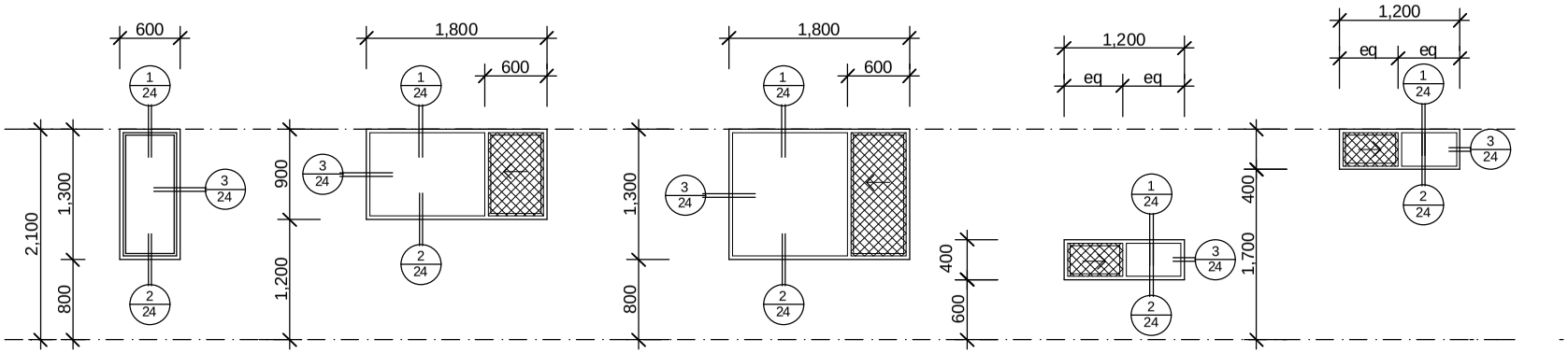


W1

W2

W3
W4 handed

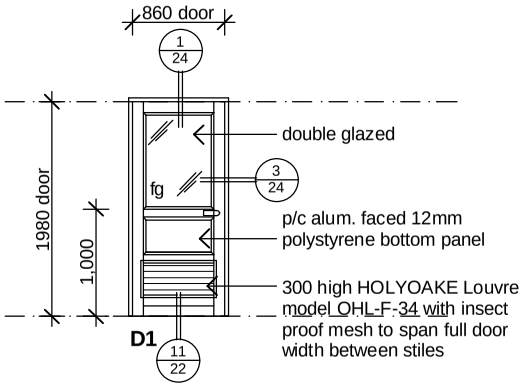
W5, W7
- toughened glass

W6, W8
- toughened glass

note:

1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
2. W2 - W8 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

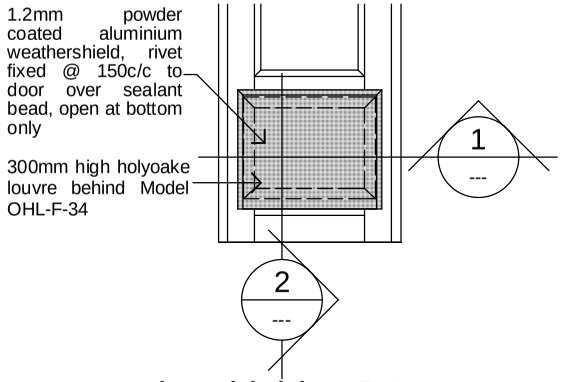
window schedule Scale 1:50



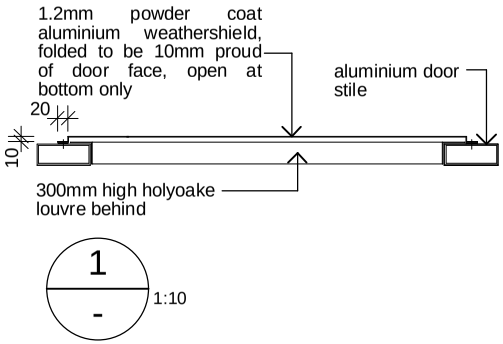
note:

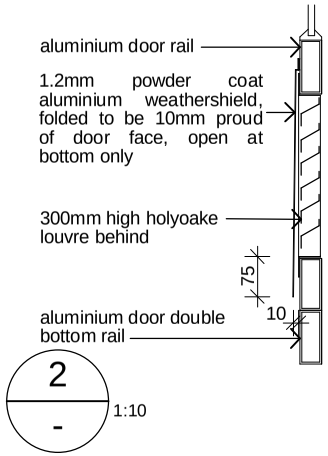
1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule Scale 1:50



weathershield to D1 1:20





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Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: 10 bunk window & door schedule

SCALES: 1:50, 1:20, 1:10 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	08	

DATE xyz

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Appendix B1.4: 12 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

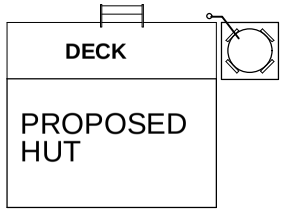
Sheet	Title		Version	Date issued
01	12 bunk hut base drawing	Site plan	4.0	March 2009
02	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03	12 bunk hut base drawing	Elevations	4.0	March 2009
C04	12 bunk hut base drawing	Section A-A	4.0	March 2009
C05	12 bunk hut base drawing	Section B-B	4.0	March 2009
06	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07	12 bunk hut base drawing	Bracing Plan	4.0	March 2009
08	12 bunk hut base drawing	Window & Door Schedule	4.0	March 2009

Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 05, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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PROJECT	**HUT NAME**
LOCATION	LOCATION NAME NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME
SHEET CONTENTS	site plan
SCALES	1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	**01**	

DATE xyz

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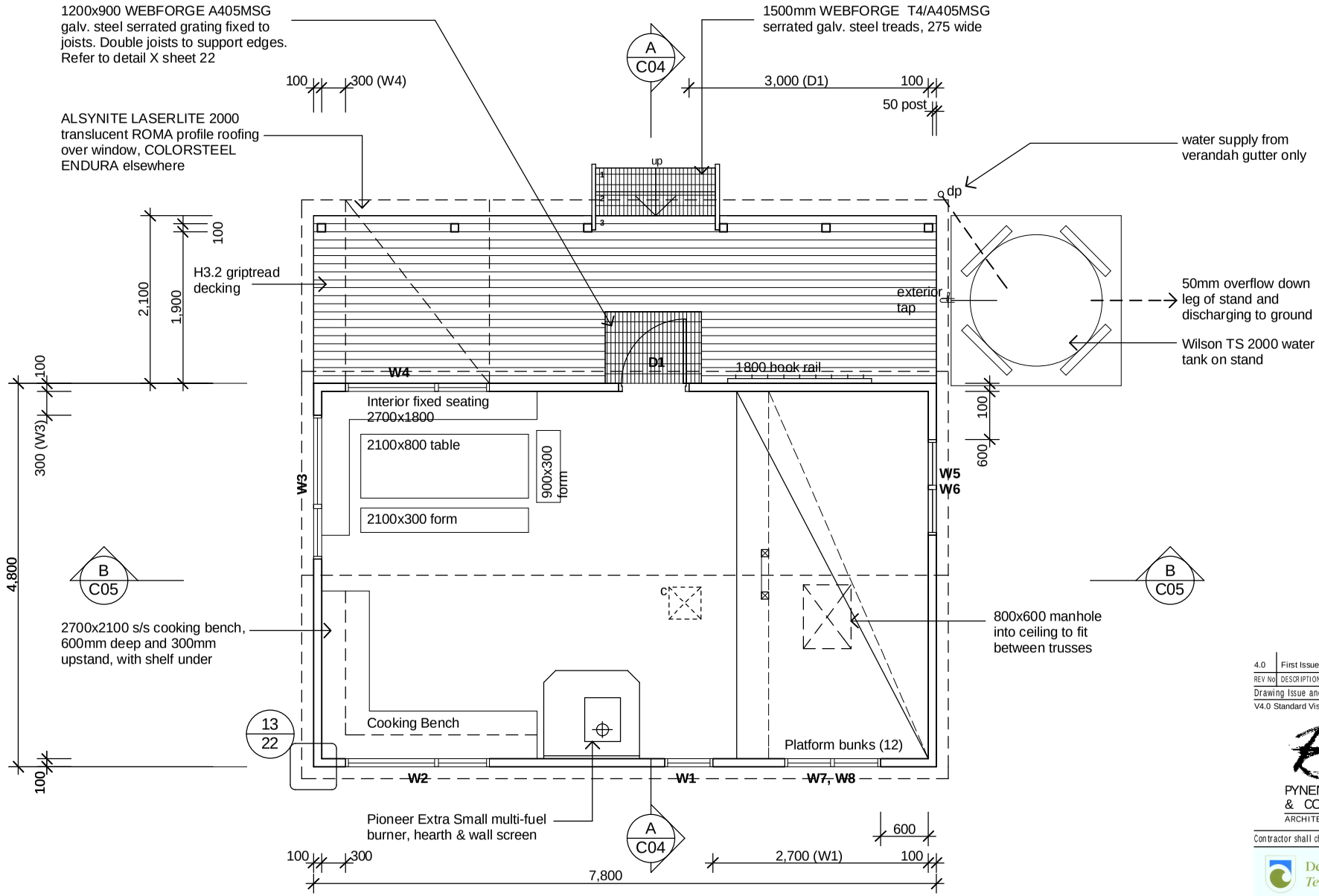

floor plan

1:50

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 / 2 4 / 3 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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SHEET CONTENTS: floor plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02	

DATE xyz

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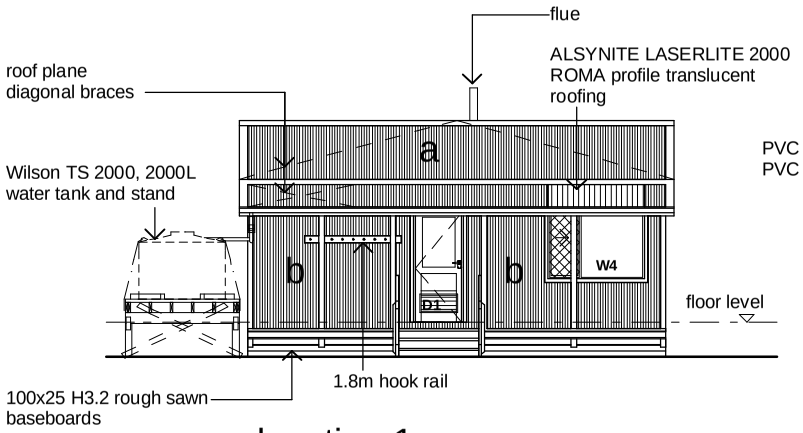
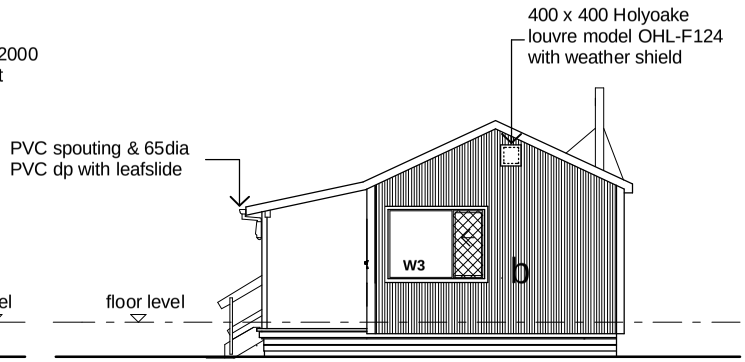
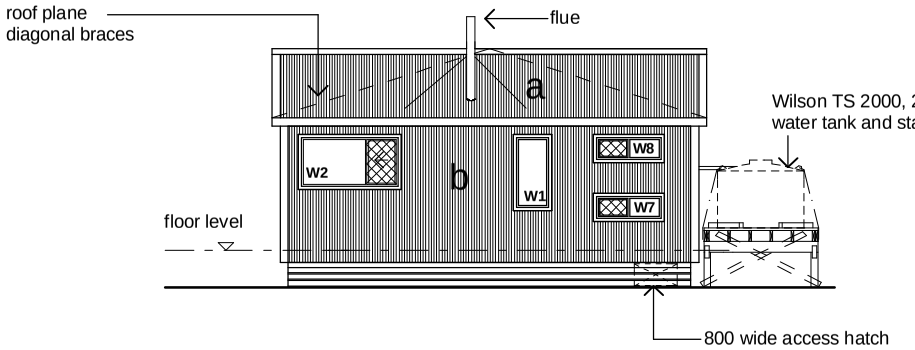


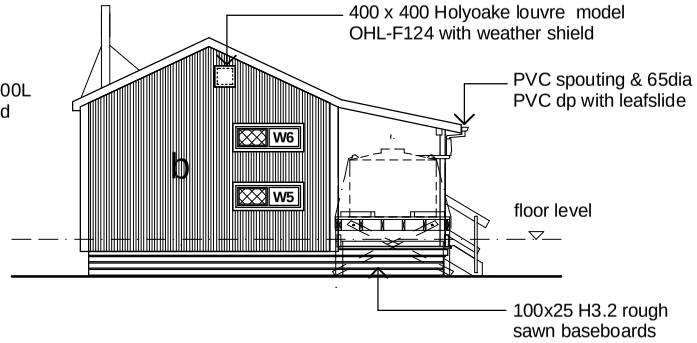
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

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NATIONAL PARK NAME

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SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03	

DATE xyz

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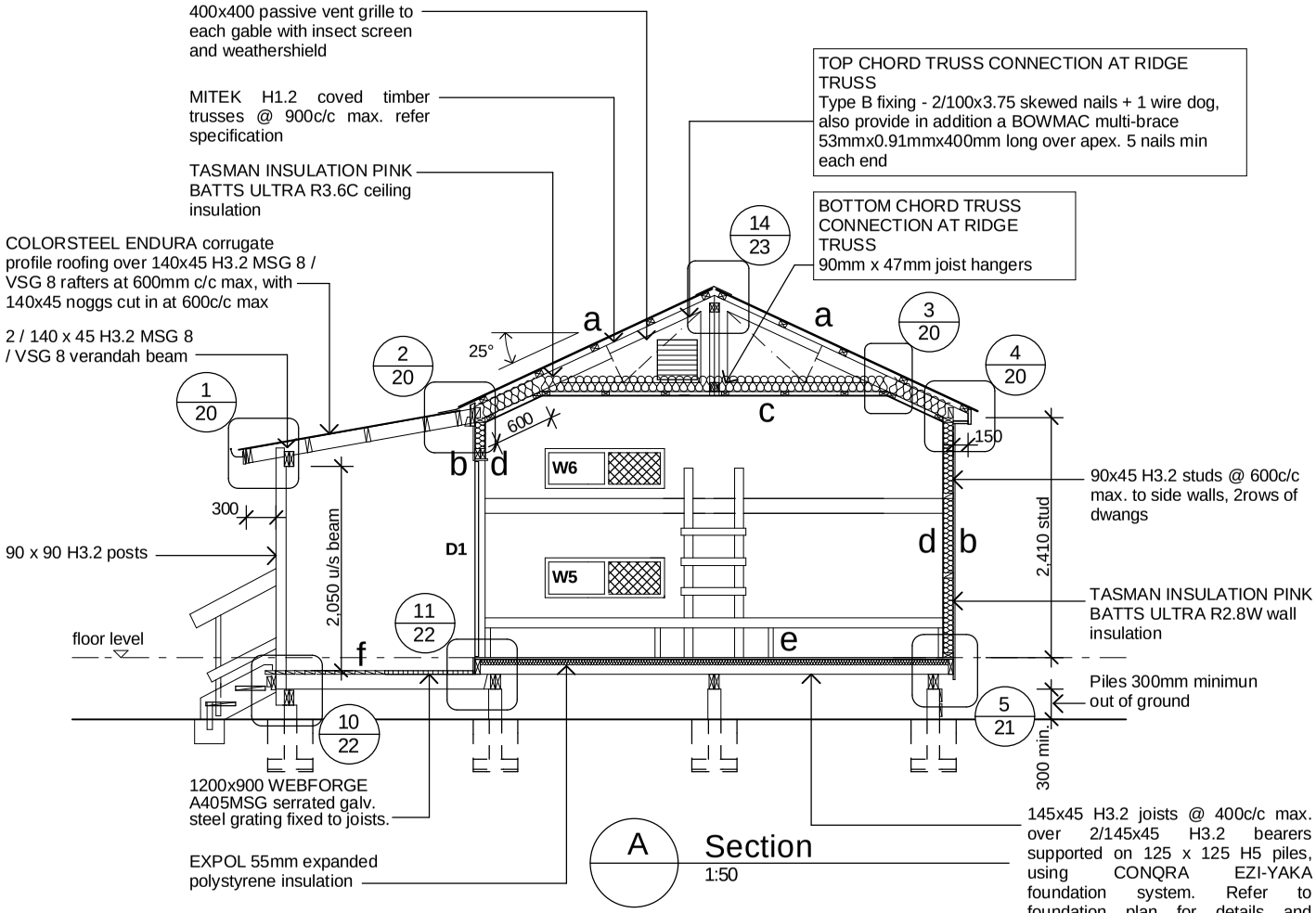
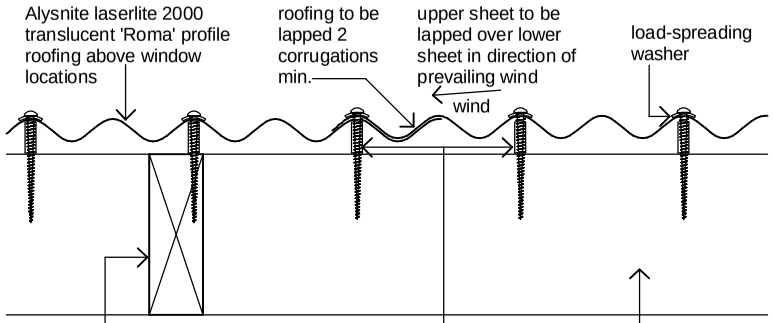


A Section
1:50



alsynite fixing detail
1:5

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PROJECT: HUT NAME
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NATIONAL PARK NAME
AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: section A
SCALES: 1:50, 1:5 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04	

DATE: xyz

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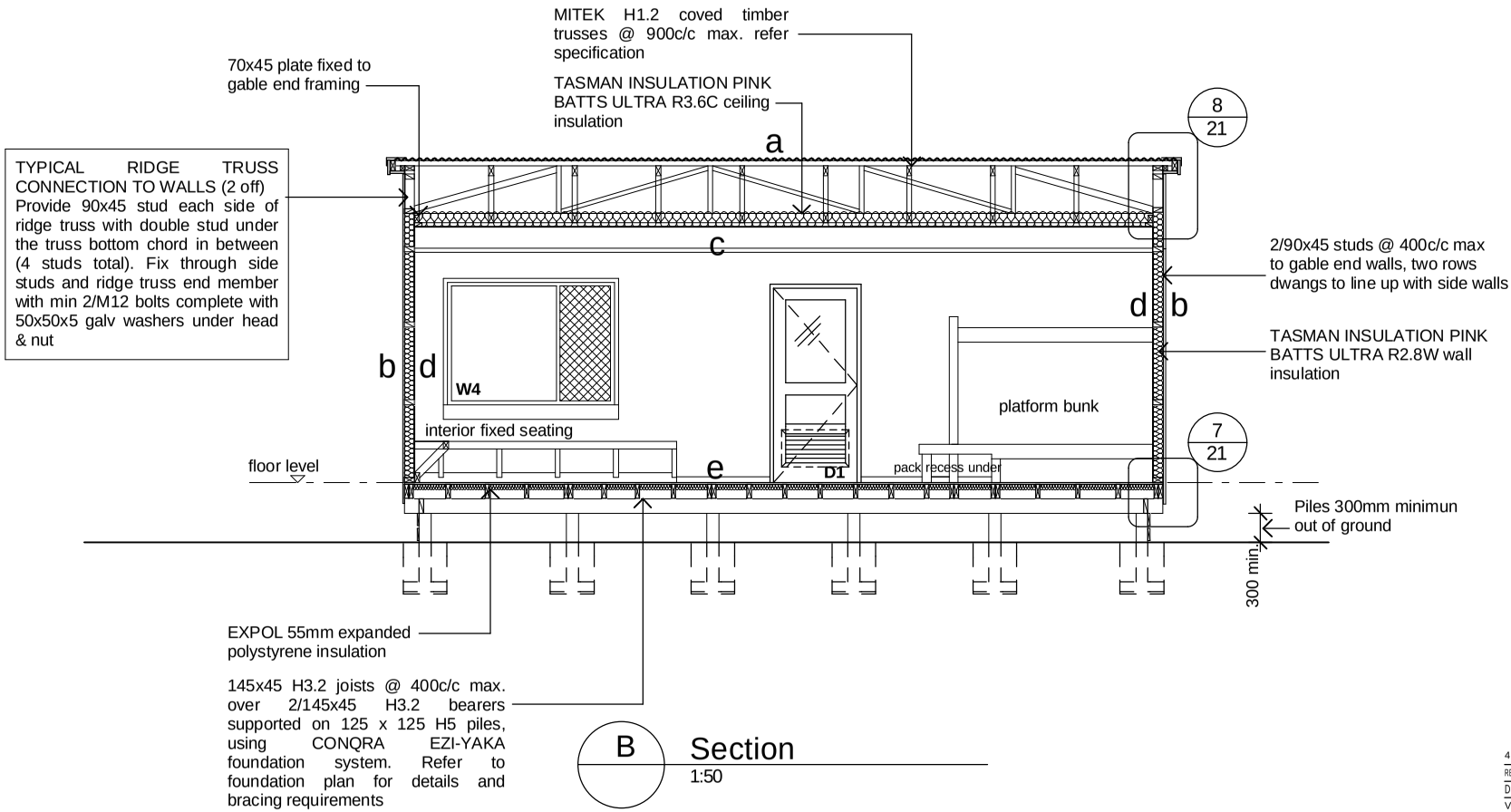

B Section
1:50

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c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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Department of Conservation
Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05	

DATE xyz

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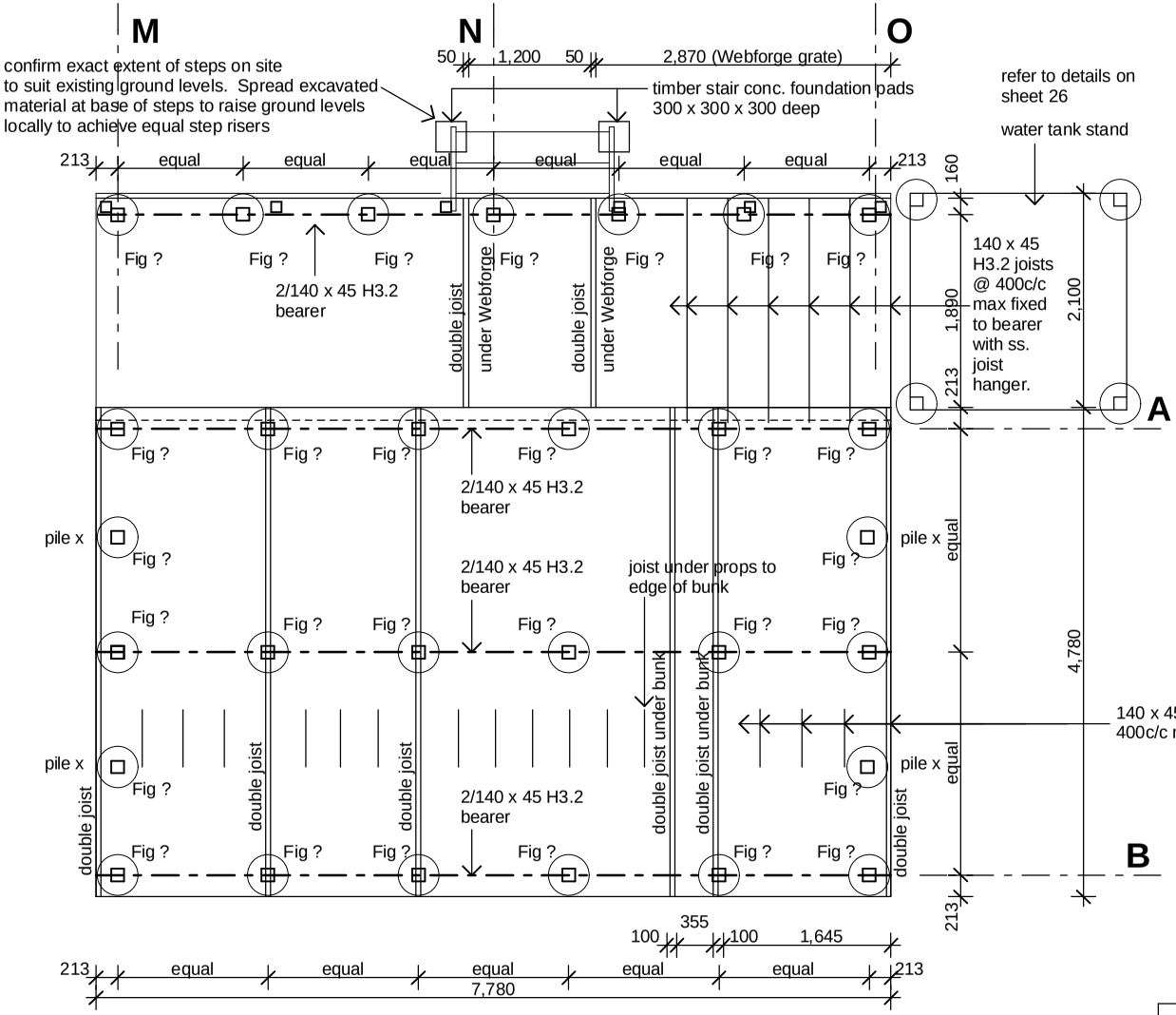


foundation plan

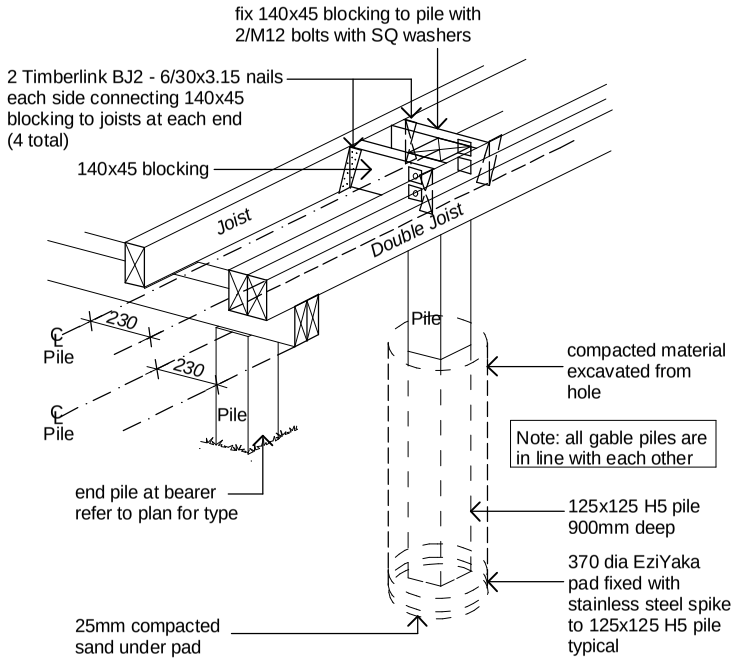
1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06	

DATE: xyz

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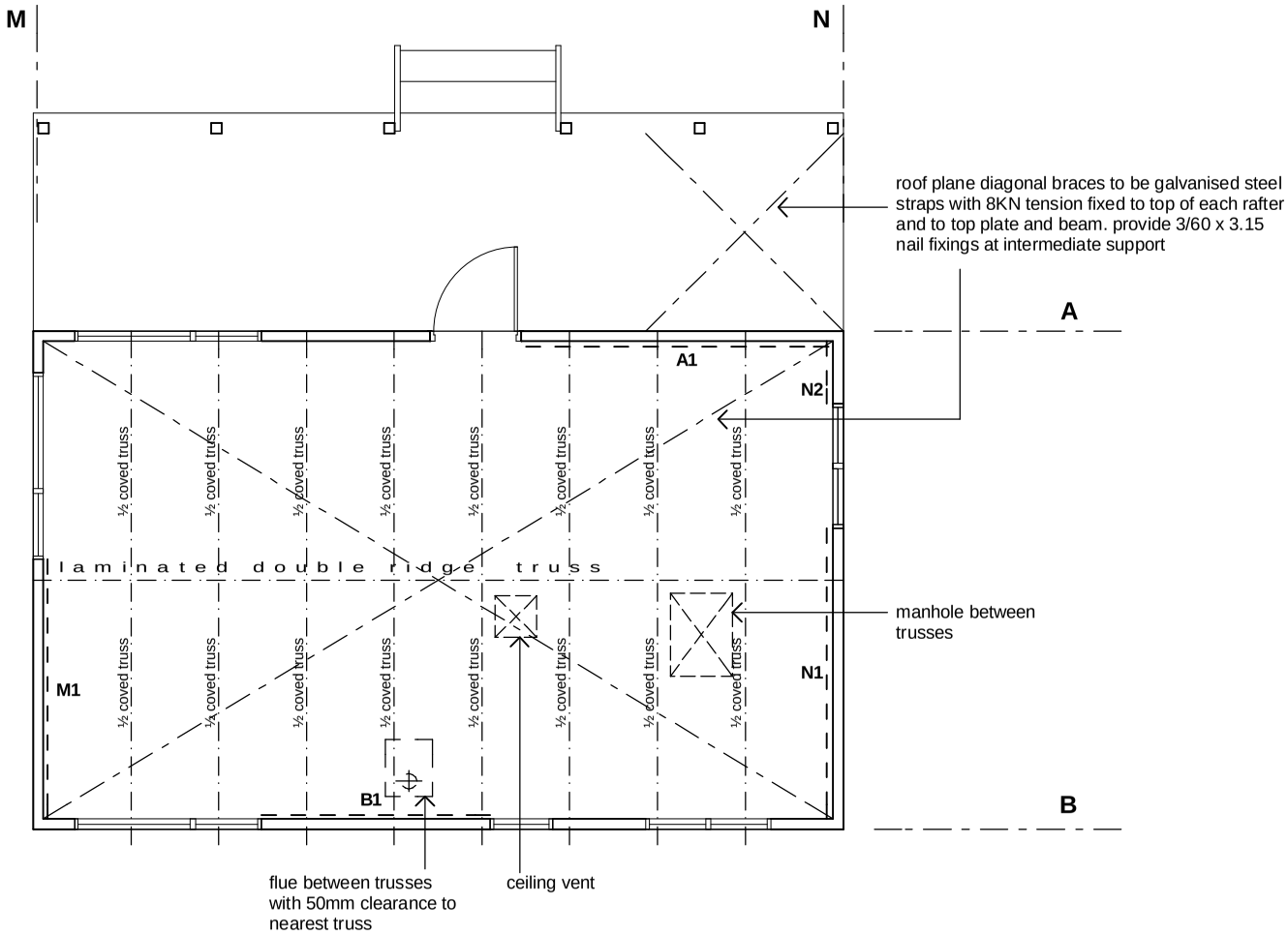

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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Department of Conservation
Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07	

DATE xyz

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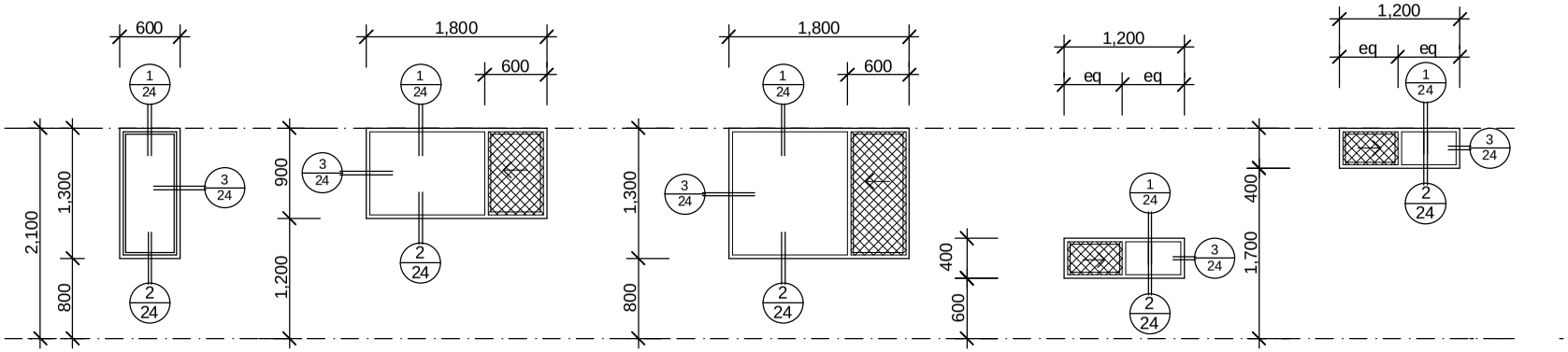


W1

W2

W3
W4 handed

W5, W7
- toughened glass

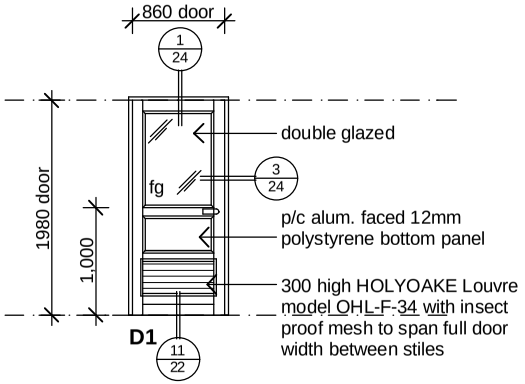
W6, W8
- toughened glass

note:

1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
2. W2 - W8 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

window schedule

Scale 1:50



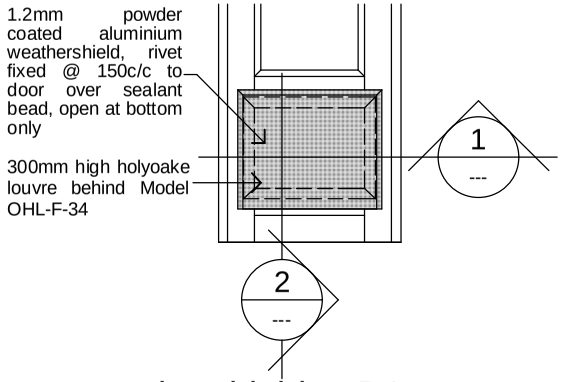
D1

note:

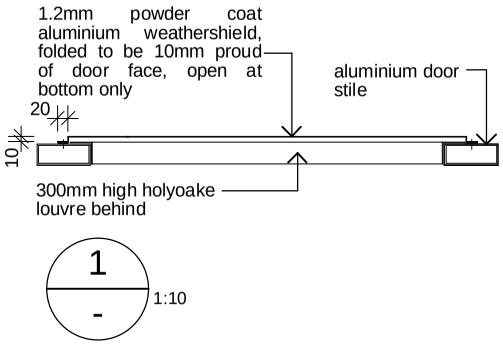
1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule

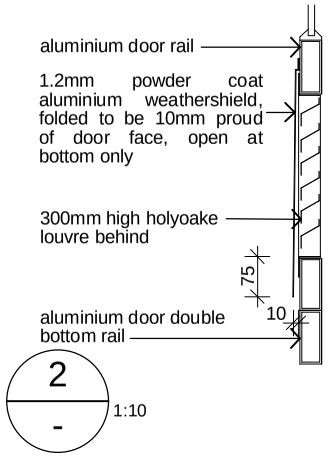
Scale 1:50



weathershield to D1 1:20



1:10



1:10

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS window & door schedule

SCALES 1:50, 1:20, 1:10 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	08	

DATE xyz

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Appendix B2:

Base Developed Design Options Drawings

1. Contents

Appendix B2 contains the Base Drawings from which the Developed Design drawings for design options for huts are derived in accordance with section 2.3. These drawings are located in four separate appendices related to hut size, and address the design options:

- Appendix B2.1: 4 bunks
    - Colorsteel cladding
        - Deck along front wall
- Appendix B2.2: 6 bunks
    - Colorsteel cladding
        - Deck along front wall
- Appendix B2.3: 10 bunks
    - Colorsteel cladding
        - Deck along side wall
        - Deck and roof along side wall
- Appendix B2.4: 12 bunks
    - Colorsteel cladding
        - Deck along side wall
        - Deck and roof along side wall

Refer to Appendix B1 for base drawings where no design options are selected.

Appendix B2.1: 4 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

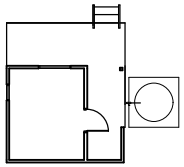
Sheet	Title	Version	Date issued
	(deck along front wall)		
01D	4 bunk hut base drawing Site plan	4.0	March 2009
02D	4 bunk hut base drawing Floor Plan	4.0	March 2009
C03D	4 bunk hut base drawing Elevations	4.0	March 2009
C04D	4 bunk hut base drawing Section A-A	4.0	March 2009
06D	4 bunk hut base drawing Foundation Plan	4.0	March 2009
07D	4 bunk hut base drawing Bracing Plan	4.0	March 2009

Sheets 5 and 8 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.1.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



proposed
hut

site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	**01D**	

DATE xyz

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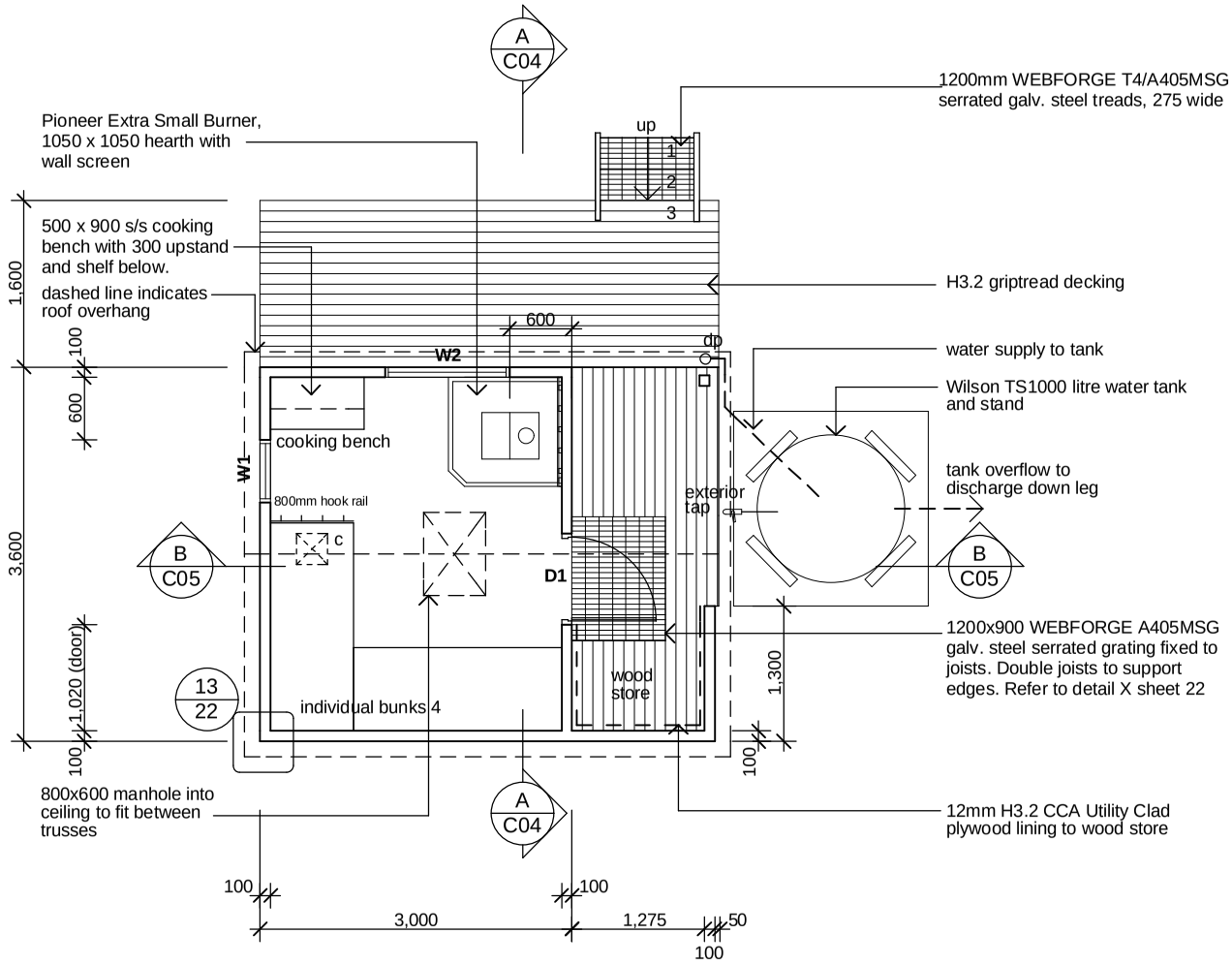

floor plan

1:50

note:

1. c indicates 300x300 HOLYOAKE ceiling vent grill, model EC-125

2
3 1
4
elevation key

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REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

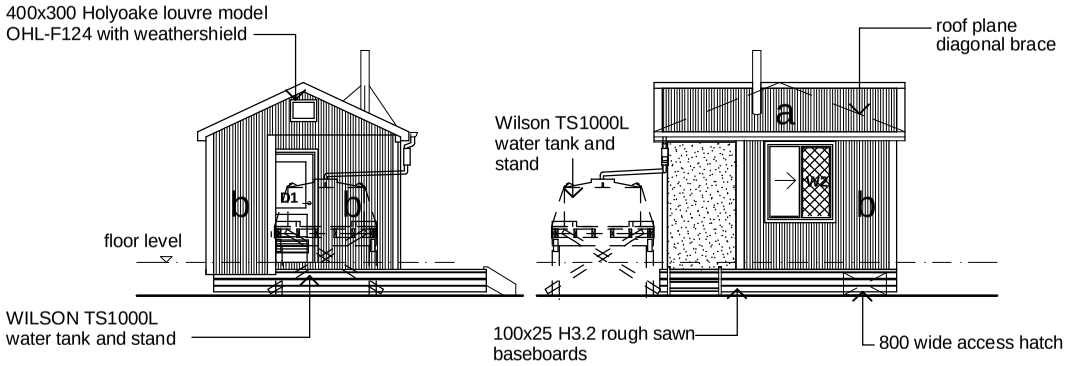
AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS floor plan

SCALES 1:50 @ A3 SHEET SIZE

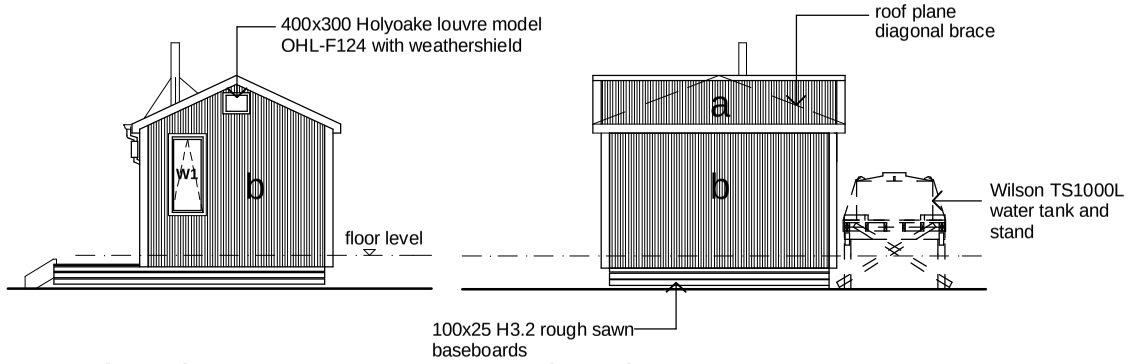
DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02D	

DATE xyz



elevation 1 scale 1:100

elevation 2 scale 1:100



elevation 3 scale 1:100

elevation 4 scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03D	

DATE xyz

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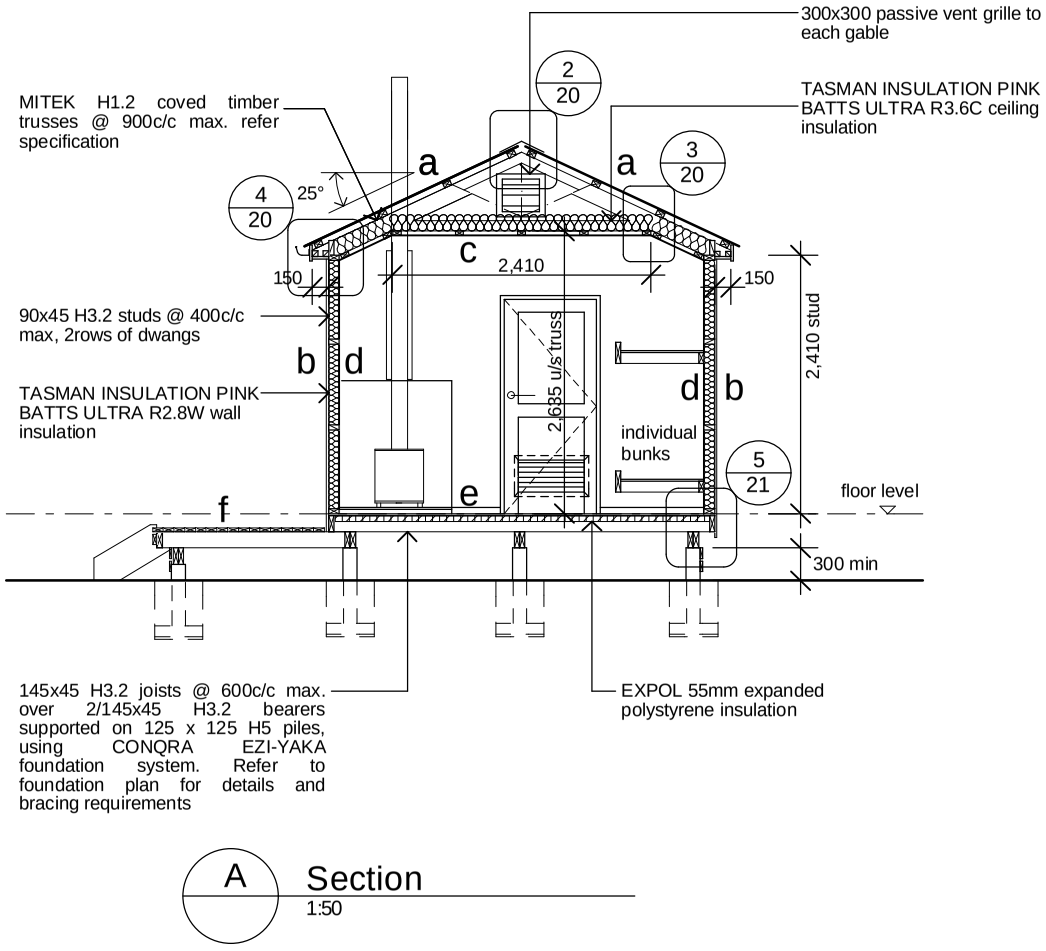

A Section
1:50

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section A

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04D	

DATE xyz

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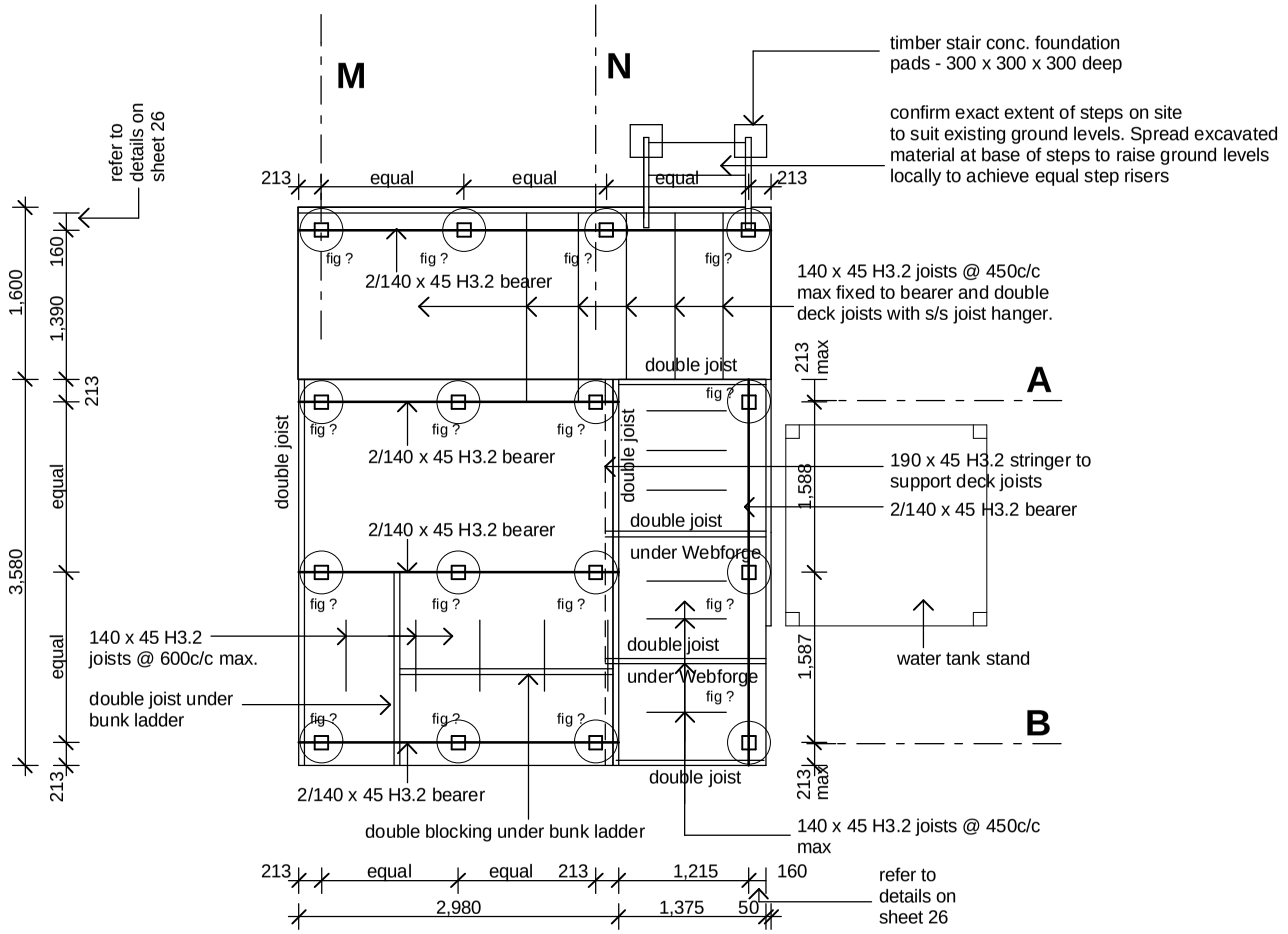

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

foundation plan

1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06D	

DATE: xyz

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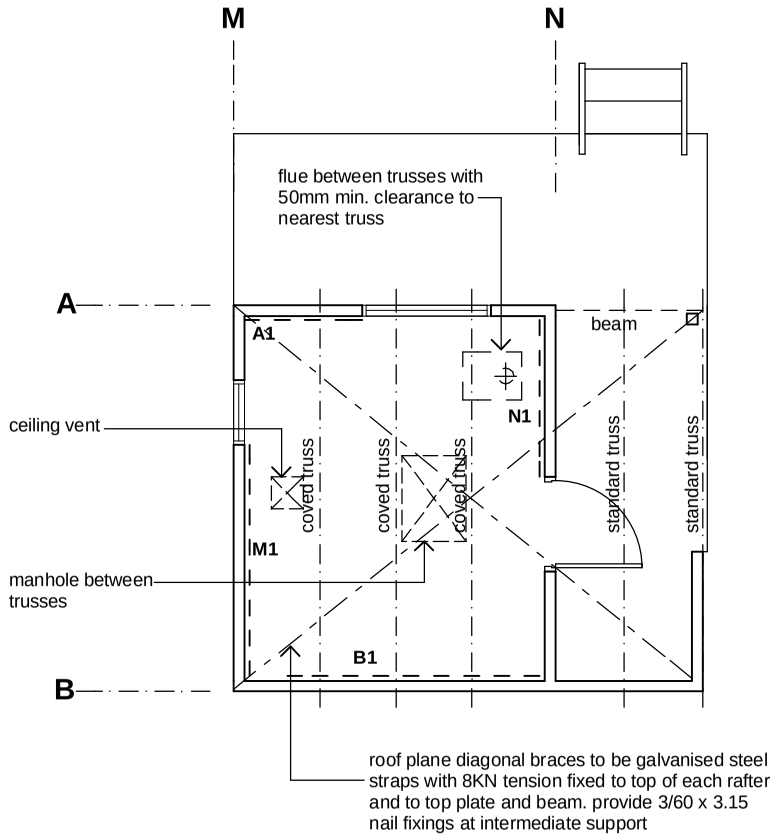

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 4 Bunk Hut - Appendix B2.1 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07D	

DATE xyz

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Appendix B2.2: 6 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

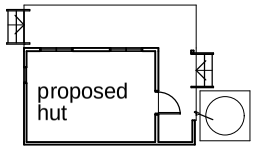
Sheet	Title	Version	Date issued
	(deck along front wall)		
01D	6 bunk hut base drawing Site plan	4.0	March 2009
02D	6 bunk hut base drawing Floor Plan	4.0	March 2009
C03D	6 bunk hut base drawing Elevations	4.0	March 2009
C04D	6 bunk hut base drawing Section A-A	4.0	March 2009
06D	6 bunk hut base drawing Foundation Plan	4.0	March 2009
07D	6 bunk hut base drawing Bracing Plan	4.0	March 2009

Sheets 5 and 8 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.2.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	01D	

DATE xyz

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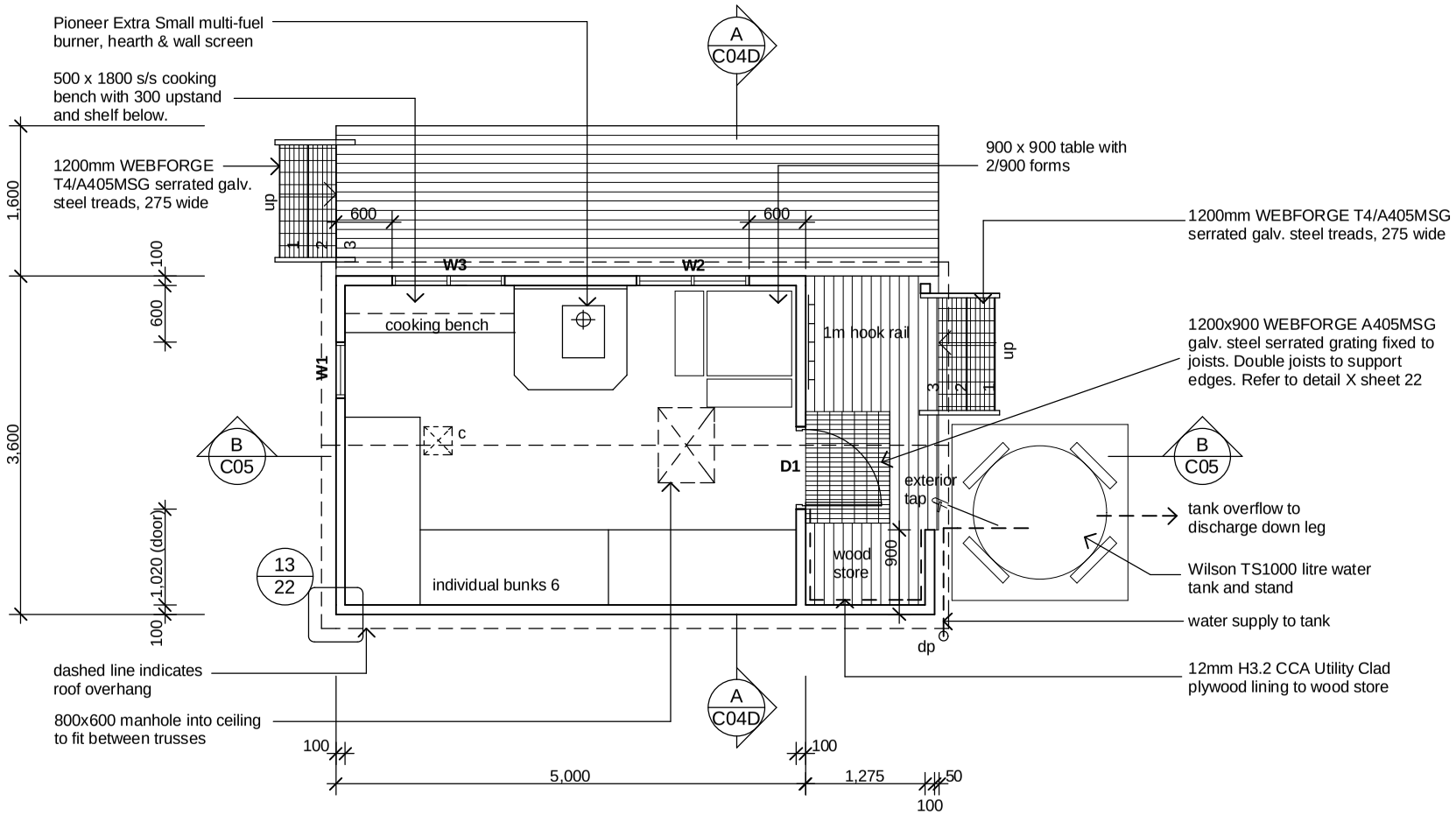

floor plan

1:50

note:

1. c indicates 300 x 300 HOLYOAKE ceiling vent grill, model EC-125

2 / 3 1 / 4 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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Fax: 04 - 384 5177
www.pc-architects.co.nz

Contractor shall check all Dimensions on site prior to construction

Department of Conservation
Te Papa Atawhai

PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02D	

DATE: xyz

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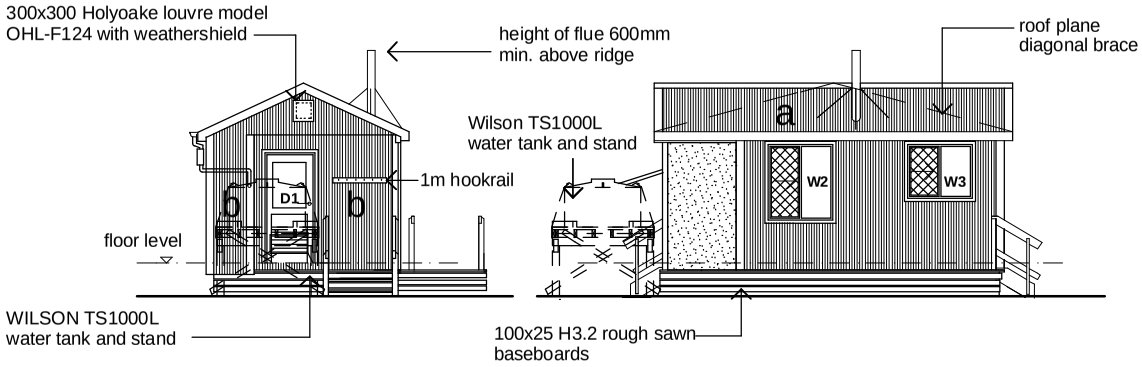
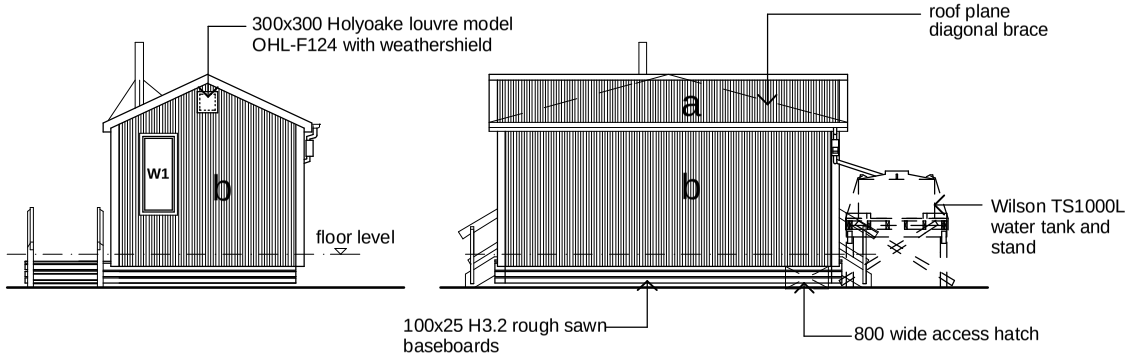


elevation 1 Scale 1:100

elevation 2 Scale 1:100



elevation 3 Scale 1:100

elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03D	

DATE xyz

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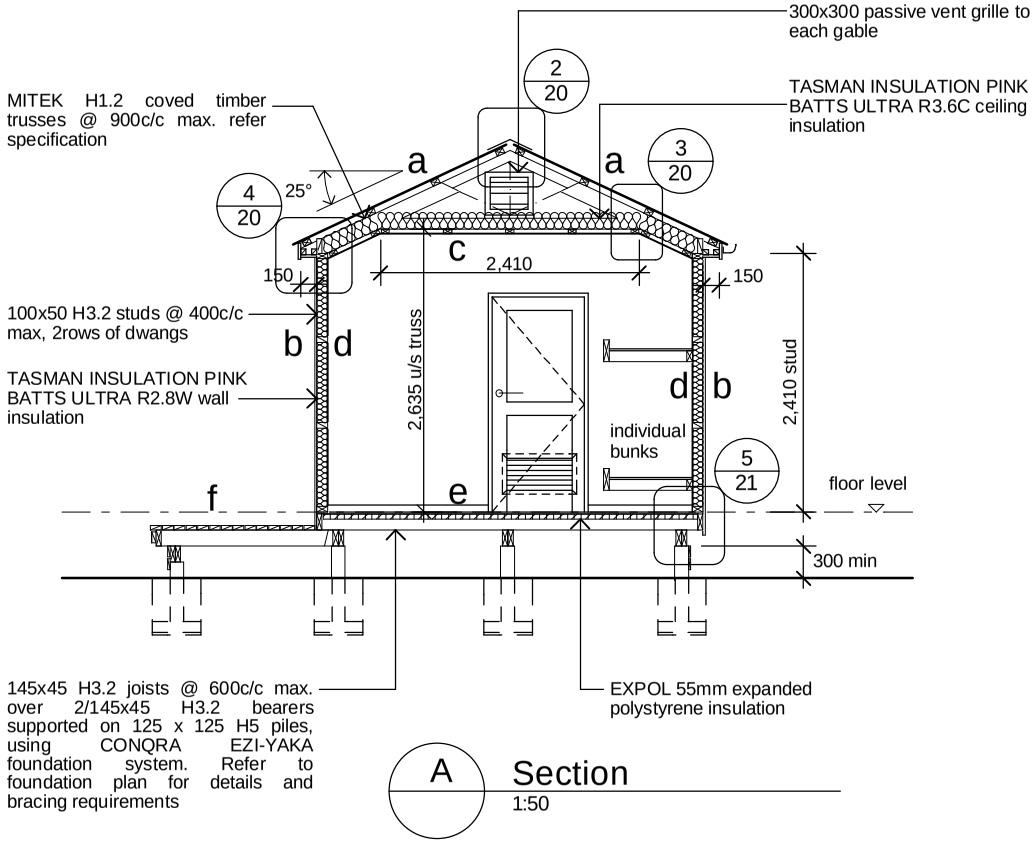

Material Note:

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e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section A

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C04D	

DATE xyz

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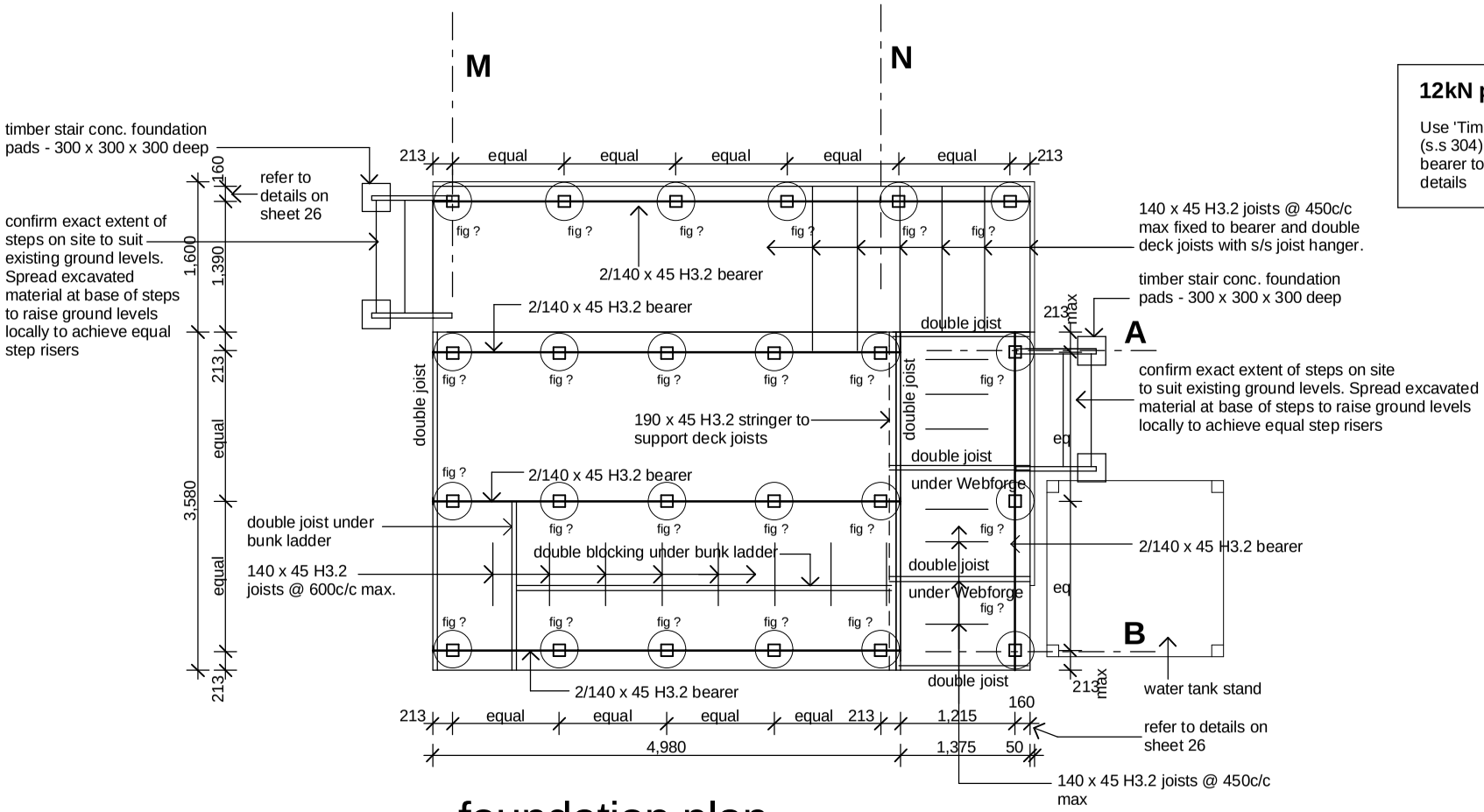

foundation plan

1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06D	

DATE: xyz

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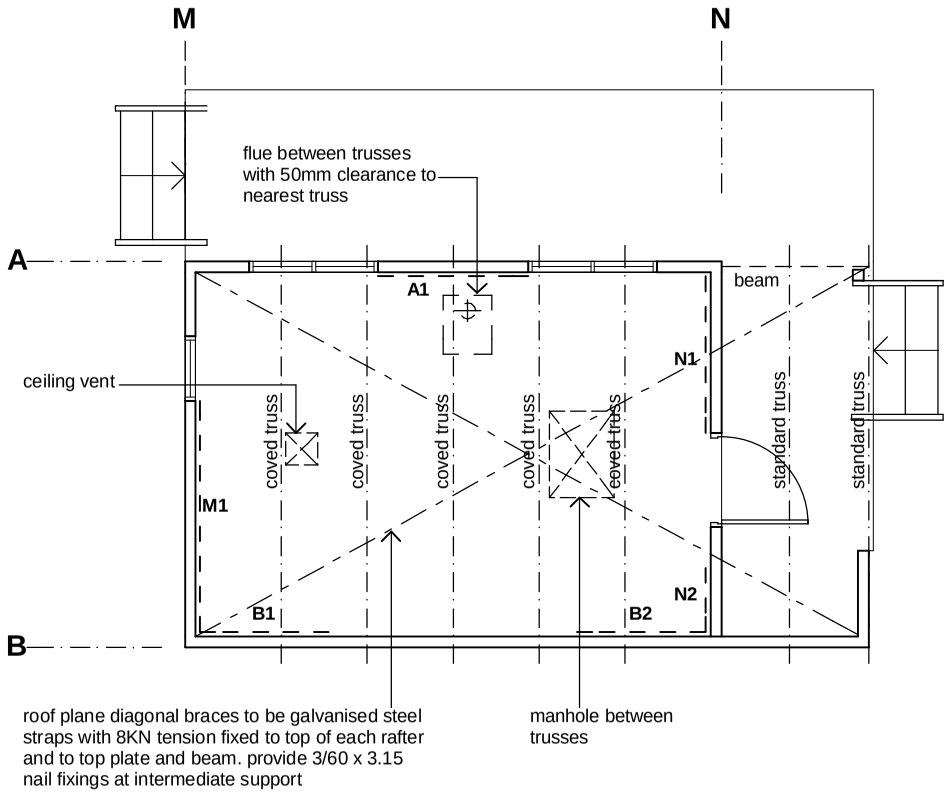

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 6 Bunk Hut - Appendix B2.2 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07D	

DATE xyz

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Appendix B2.3: 10 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

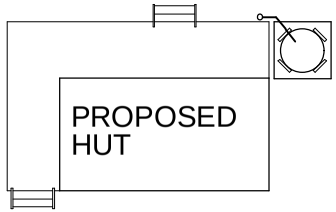
Sheet	Title		Version	Date issued
D	**(deck along side wall)**			
01D	10 bunk hut base drawing	Site plan	4.0	March 2009
02D	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03D	10 bunk hut base drawing	Elevations	4.0	March 2009
C05D	10 bunk hut base drawing	Section B-B	4.0	March 2009
06D	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07D	10 bunk hut base drawing	Bracing Plan	4.0	March 2009
R	**(deck and roof along side wall)**			
01R	10 bunk hut base drawing	Site plan	4.0	March 2009
02R	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03R	10 bunk hut base drawing	Elevations	4.0	March 2009
C05R	10 bunk hut base drawing	Section B-B	4.0	March 2009
06R	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07R	10 bunk hut base drawing	Bracing Plan	4.0	March 2009

Sheets 04 and 08 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.3.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	01D	

DATE xyz

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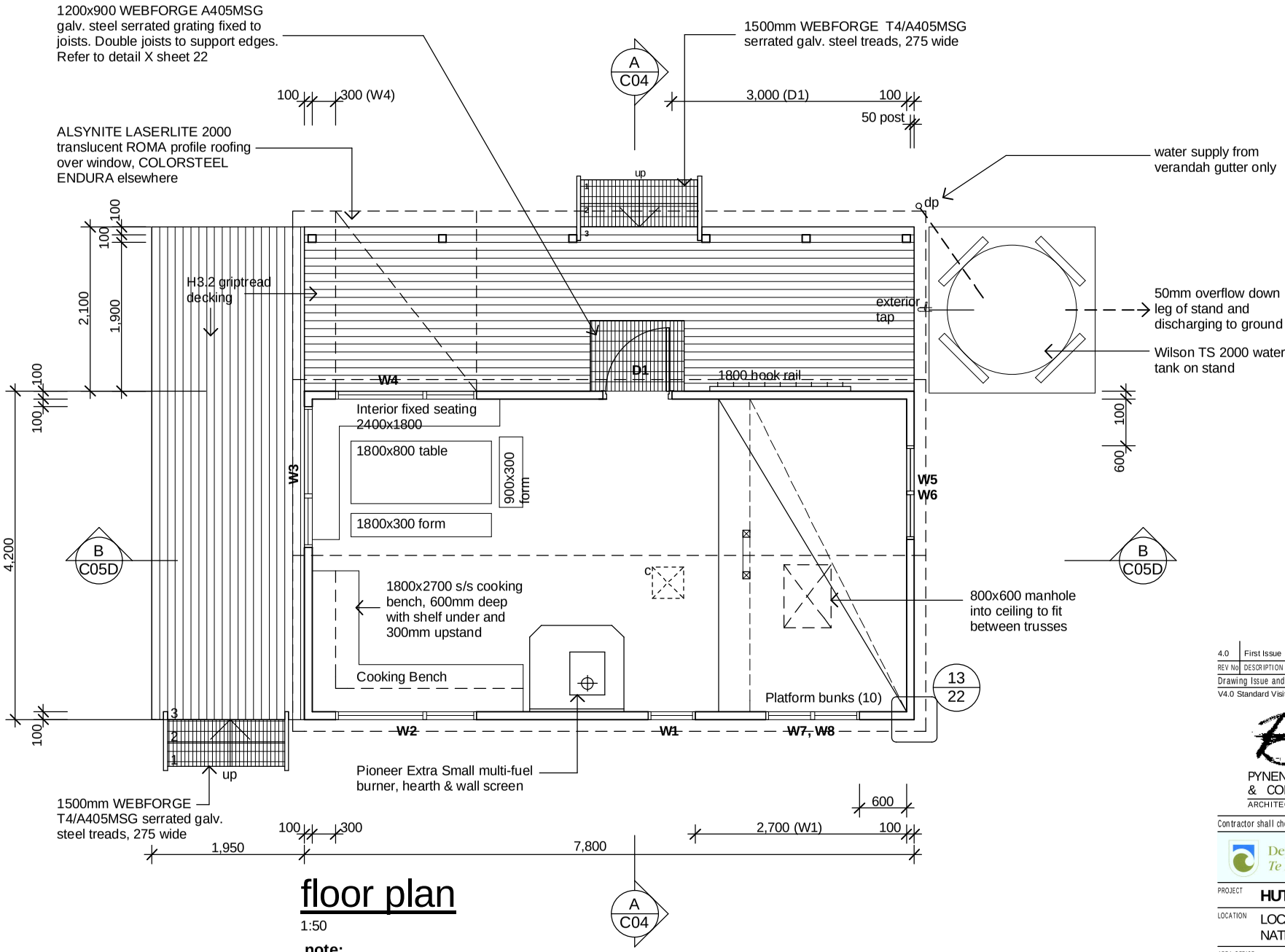

floor plan

1:50

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 2 3 4 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02D	

DATE xyz

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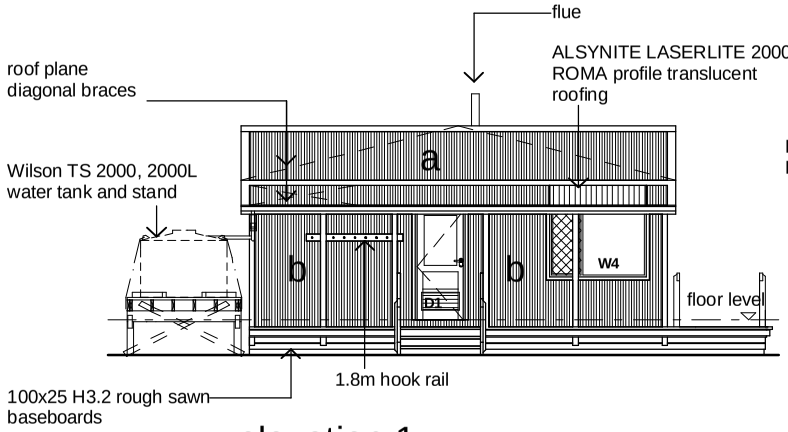
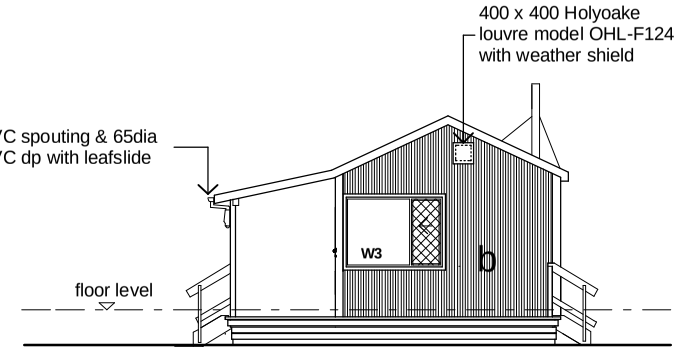
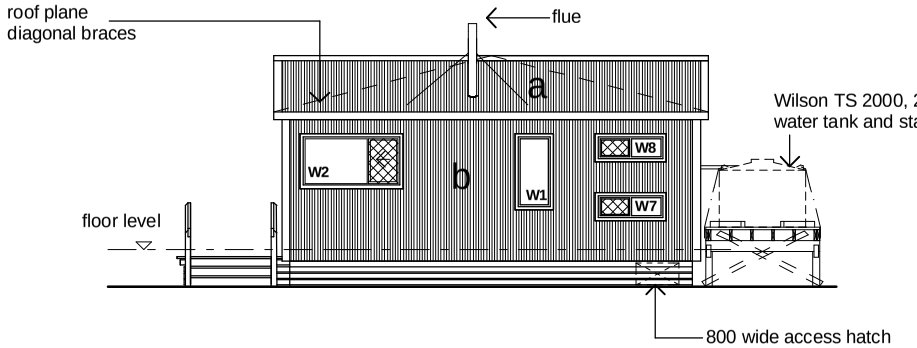


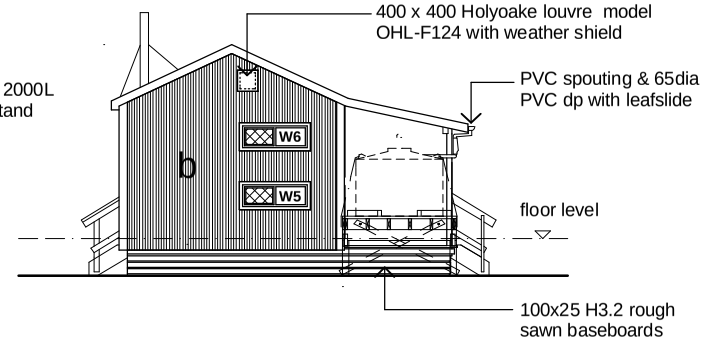
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

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e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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Te Papa Atawhai

PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 , 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03D	

DATE xyz

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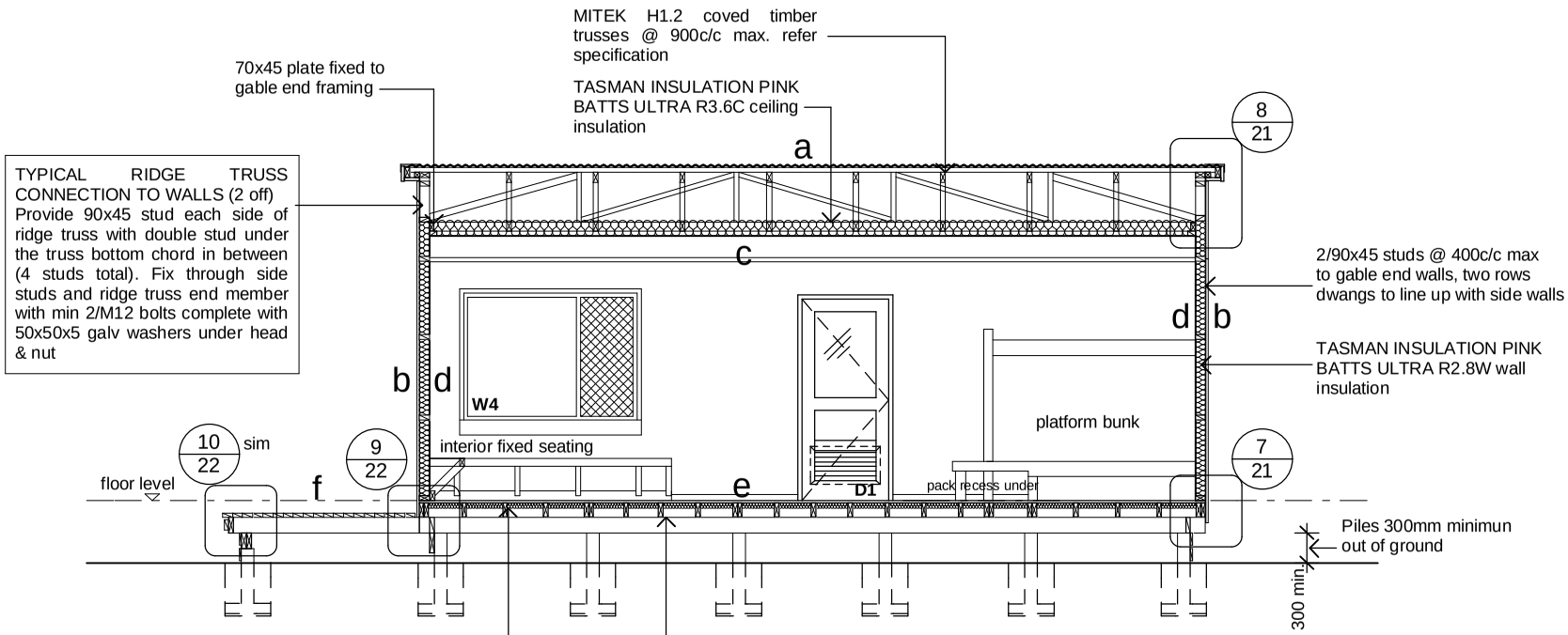

B Section
1:50

Material Note:

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f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05D	

DATE xyz

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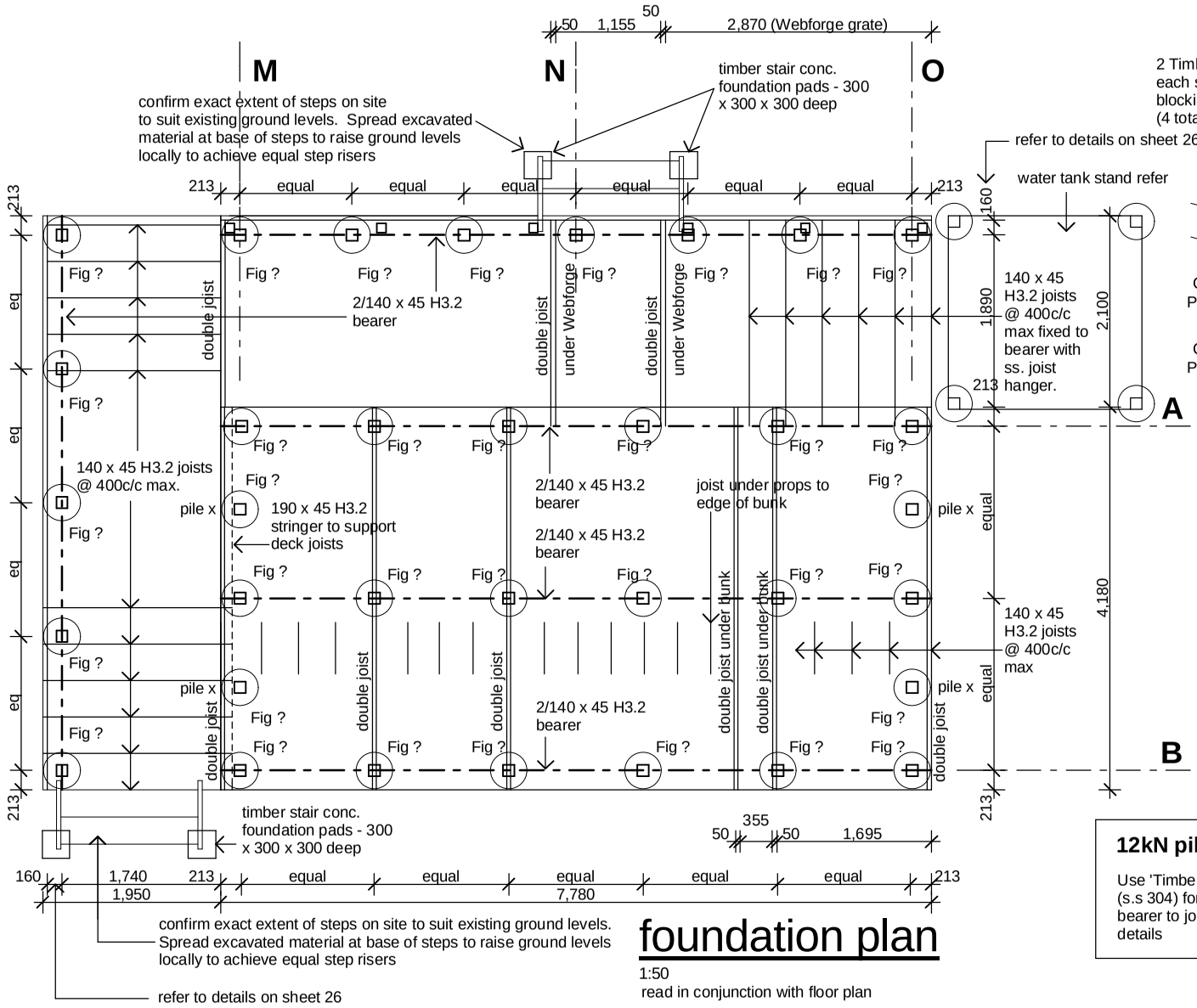
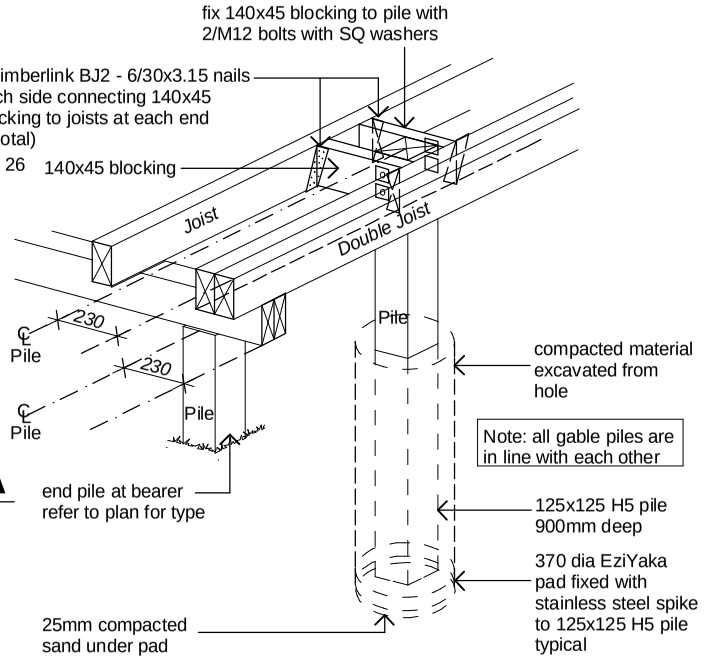


foundation plan

1:50
read in conjunction with floor plan



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. fig2 — refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06D	

DATE: xyz

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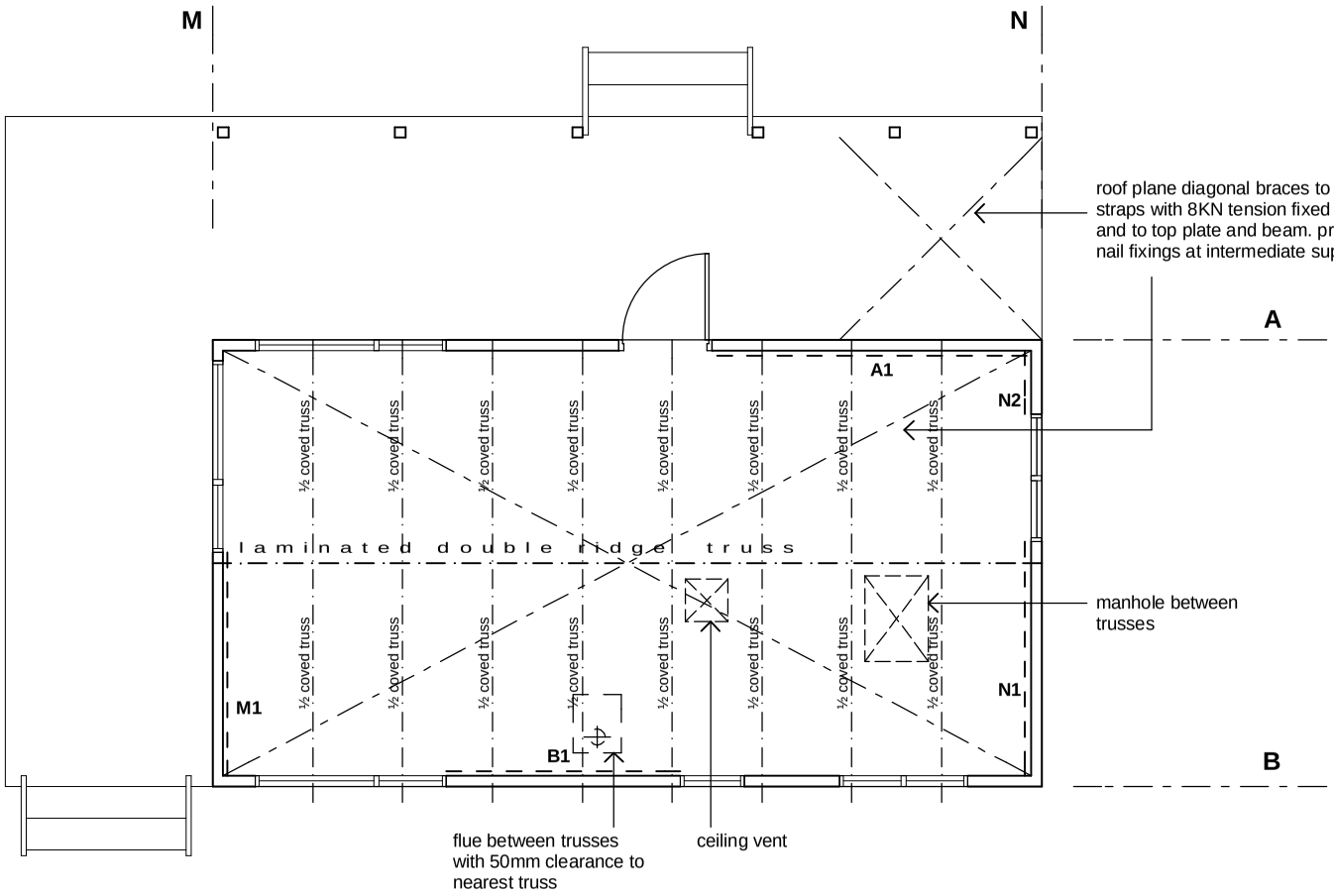

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut - Appendix B2.3 - Deck Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07D	

DATE: xyz

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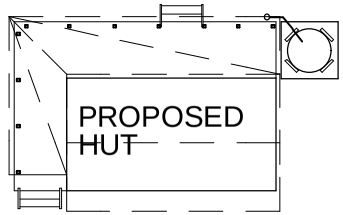
DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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Department of Conservation
Te Papa Atawhai

PROJECT	**HUT NAME**
LOCATION	LOCATION NAME NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME
SHEET CONTENTS	site plan
SCALES	1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	**01R**	

DATE xyz

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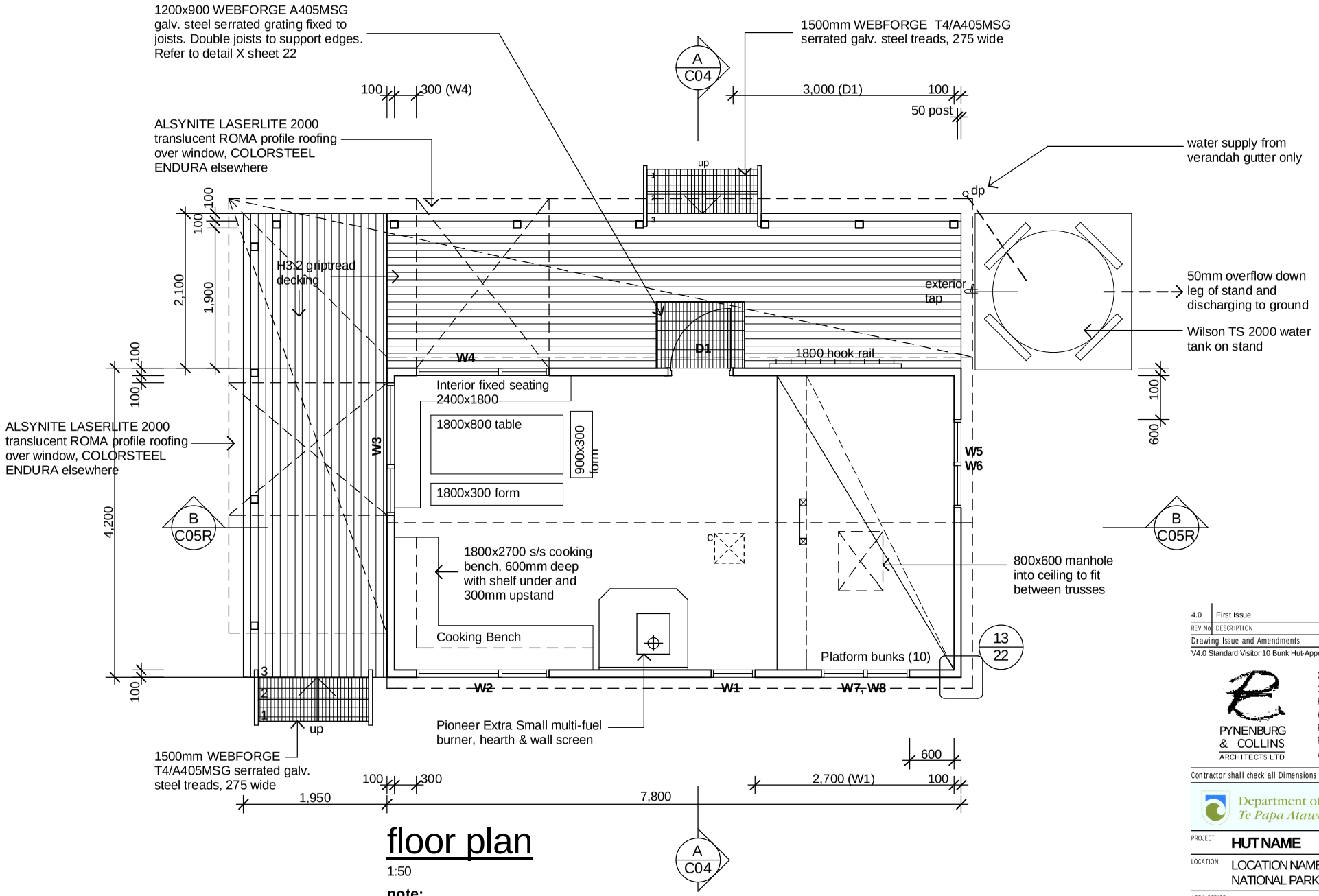

floor plan

1:50

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 2 3 4 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: floor plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02R	

DATE: xyz

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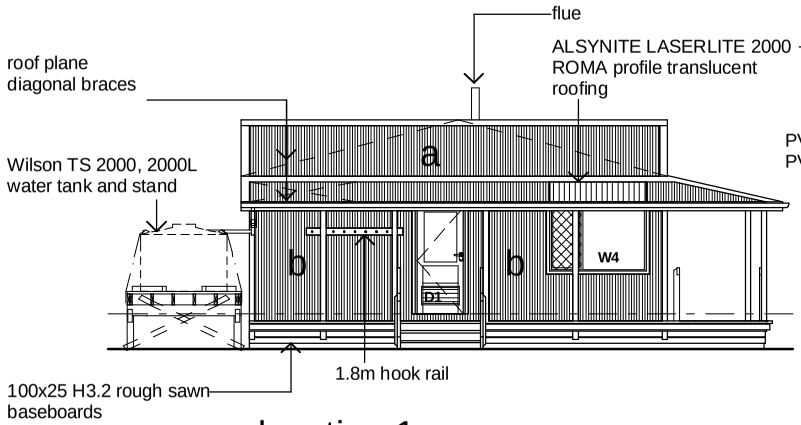
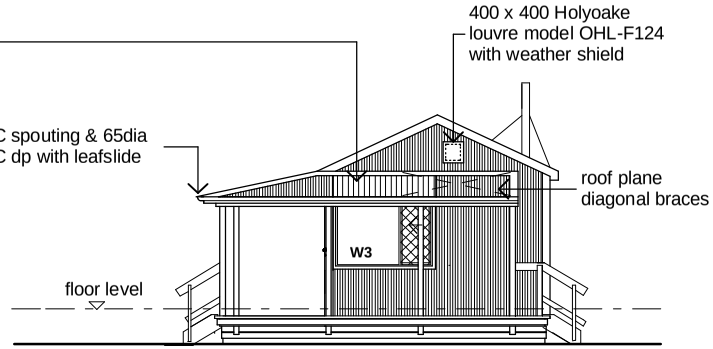
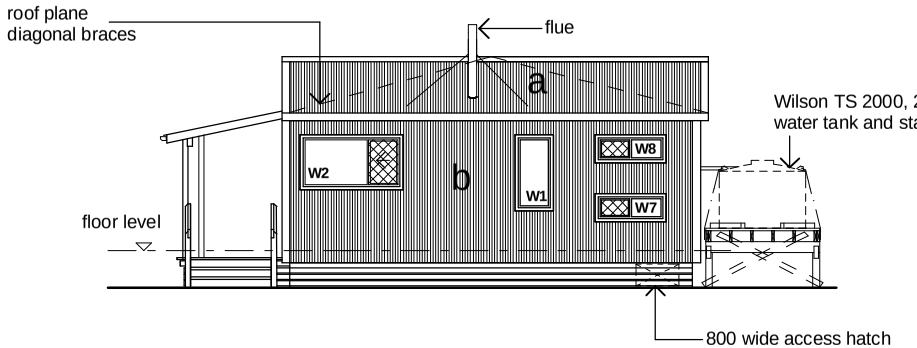


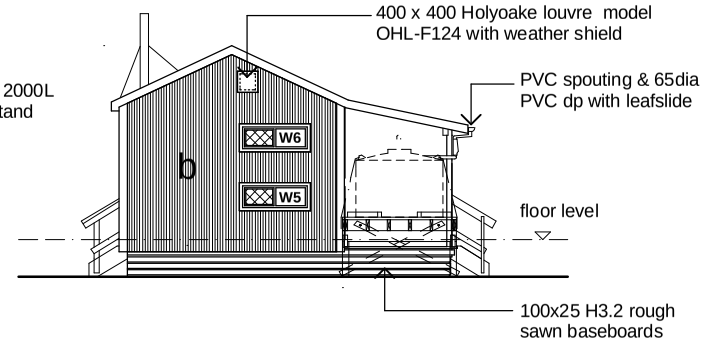
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: elevations

SCALES: 1:100 , 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03R	

DATE xyz

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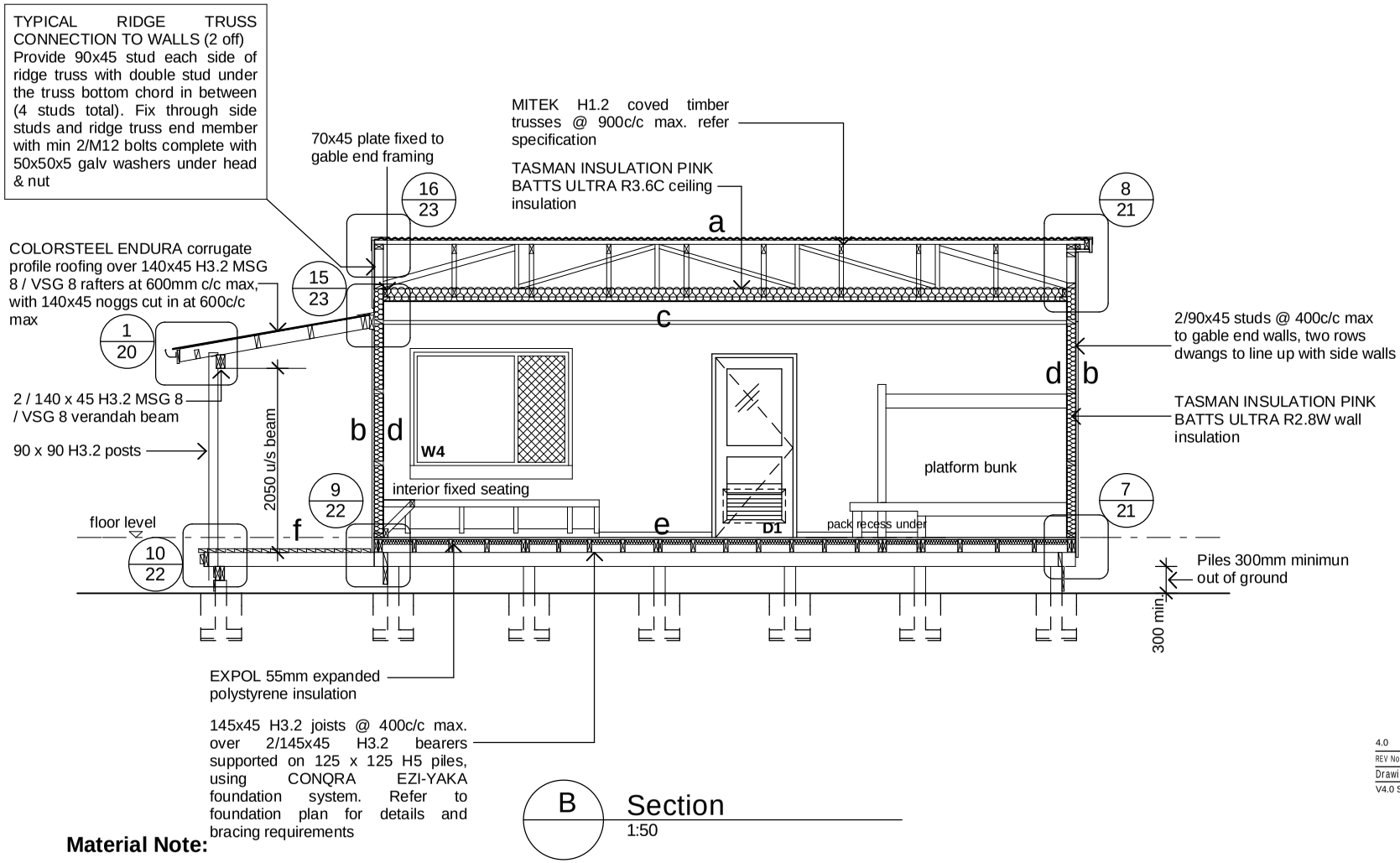

B Section
1:50

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

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e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05R	

DATE xyz

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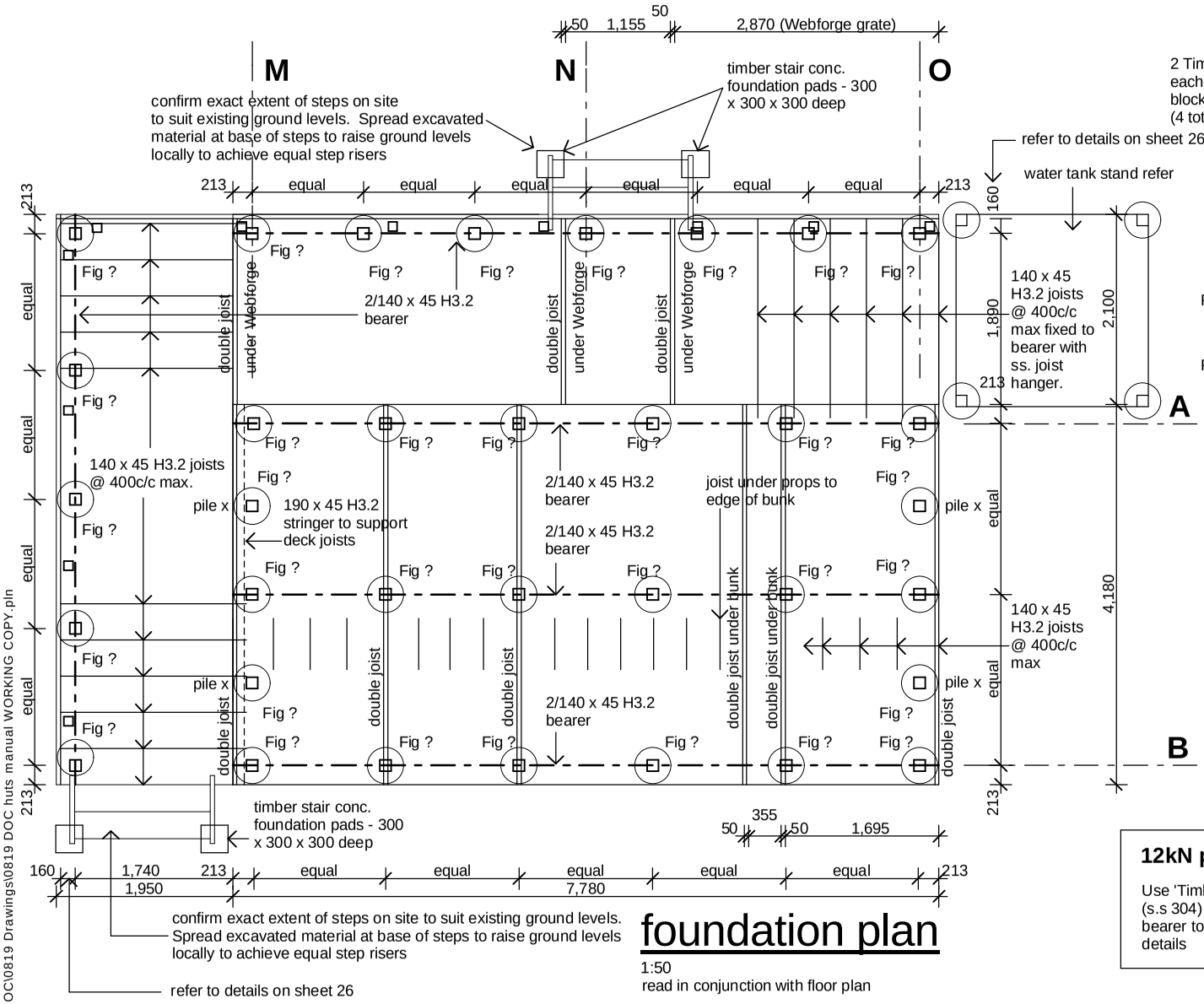
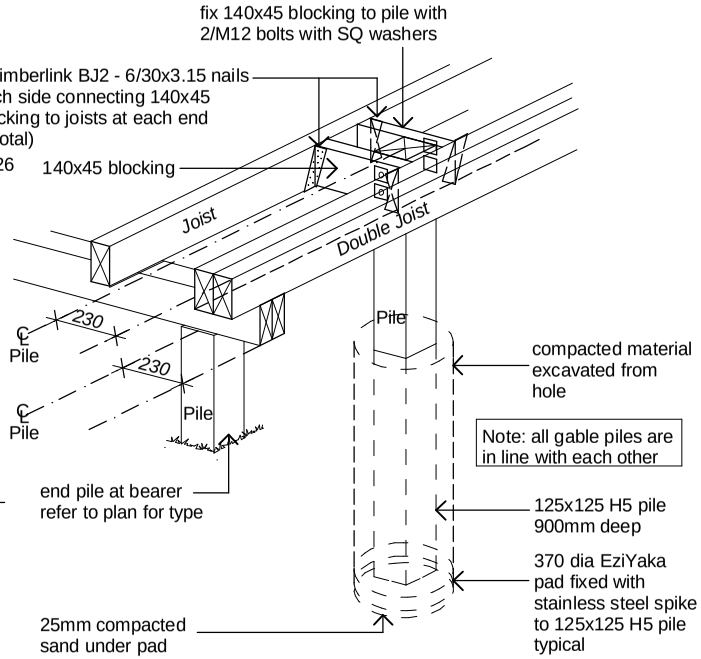


foundation plan

1:50
read in conjunction with floor plan



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. fig2 — refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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PROJECT: HUT NAME
LOCATION: LOCATION NAME, NATIONAL PARK NAME
AREA OFFICE: AREA OFFICE NAME
SHEET CONTENTS: foundation plan
SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06R	

DATE: xyz

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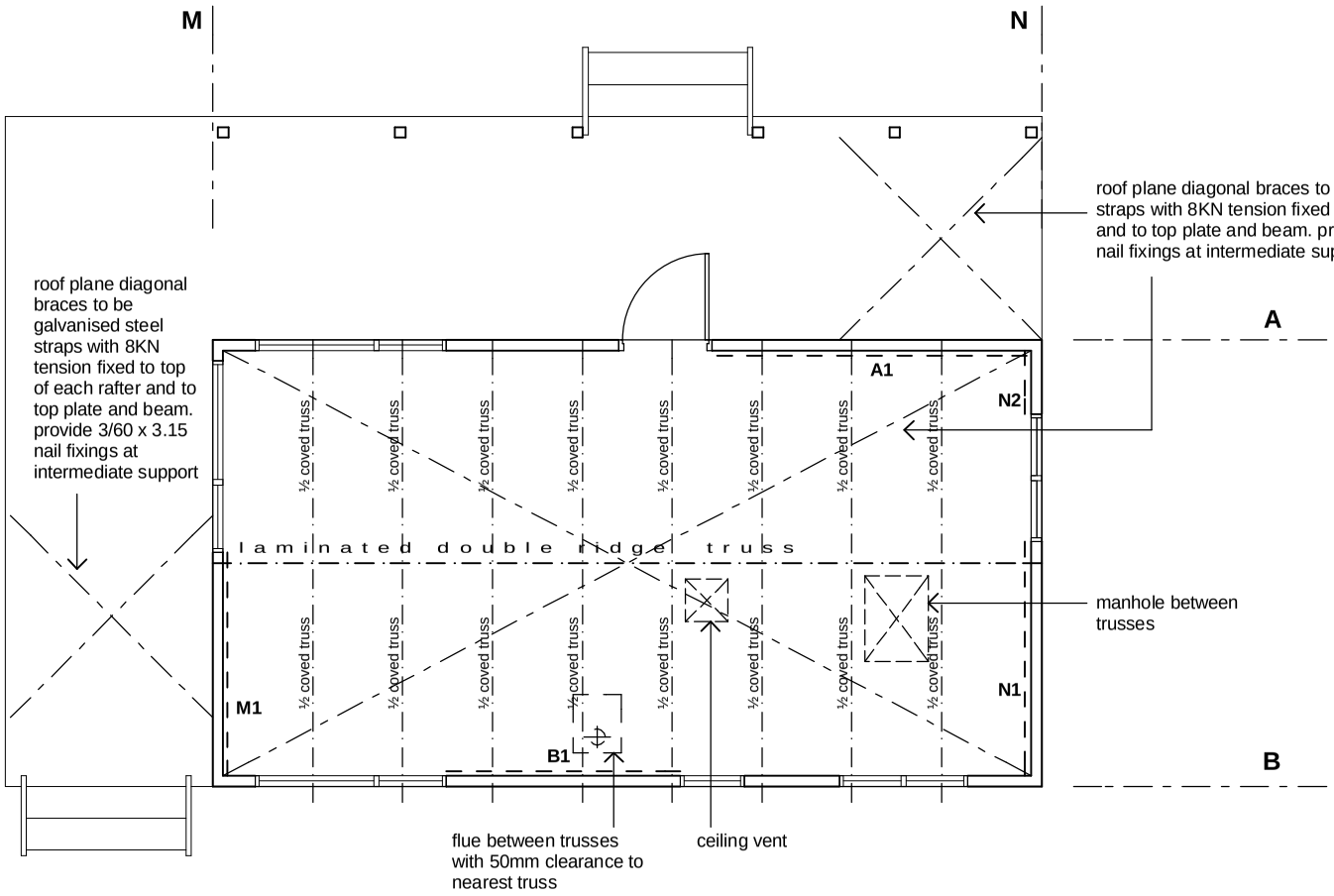

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 10 Bunk Hut-Appendix B2.3-Deck/Roof Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07R	

DATE: xyz

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Appendix B2.4: 12 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

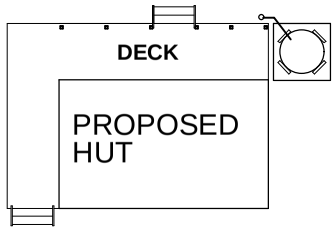
Sheet	Title		Version	Date issued
D	**(deck along side wall)**			
01D	12 bunk hut base drawing	Site plan	4.0	March 2009
02D	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03D	12 bunk hut base drawing	Elevations	4.0	March 2009
C05D	12 bunk hut base drawing	Section B-B	4.0	March 2009
06D	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07D	12 bunk hut base drawing	Bracing Plan	4.0	March 2009
R	**(deck and roof along side wall)**			
01R	12 bunk hut base drawing	Site plan	4.0	March 2009
02R	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03R	12 bunk hut base drawing	Elevations	4.0	March 2009
C05R	12 bunk hut base drawing	Section B-B	4.0	March 2009
06R	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07R	12 bunk hut base drawing	Bracing Plan	4.0	March 2009

Sheets 04 and 08 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.4.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: site plan

SCALES: 1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	01D	

DATE xyz

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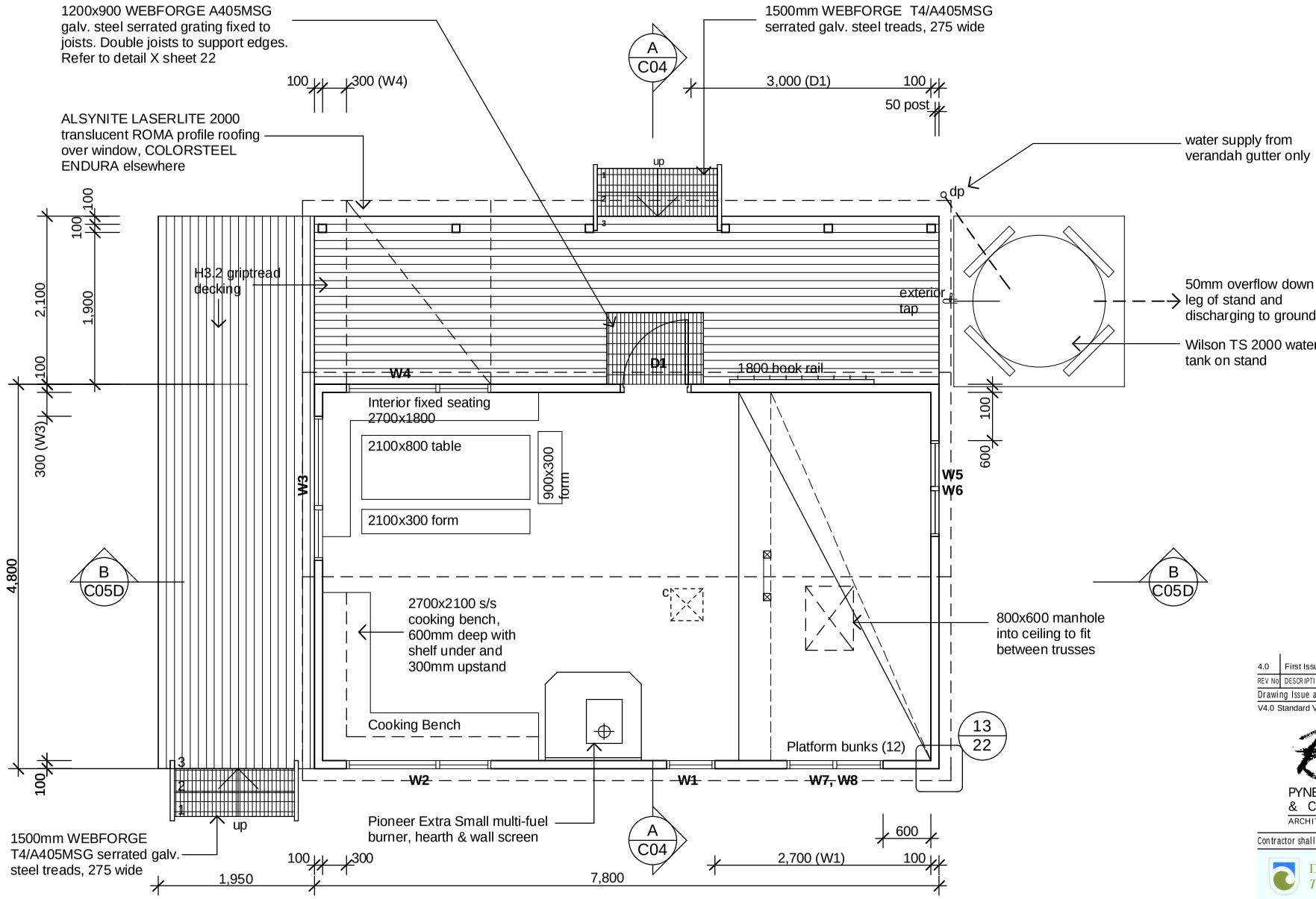

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 / 2 / 3 / 4 elevation key

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS floor plan

SCALES 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02D	

DATE xyz

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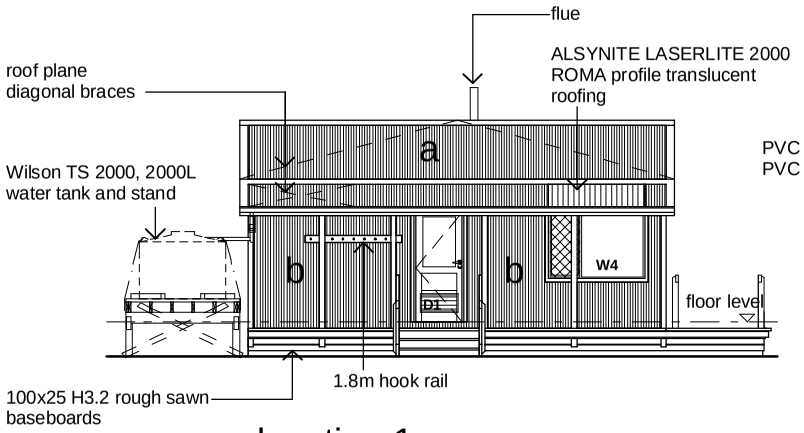
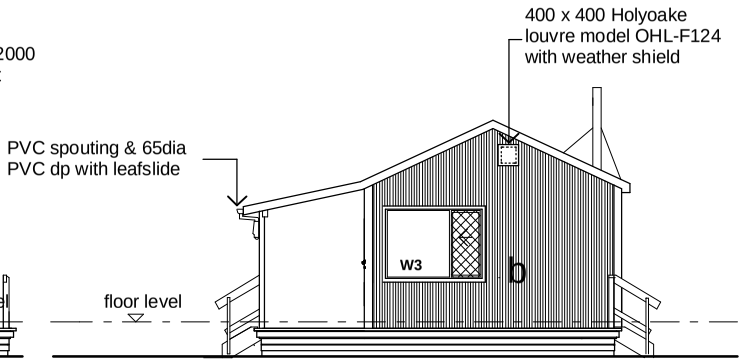
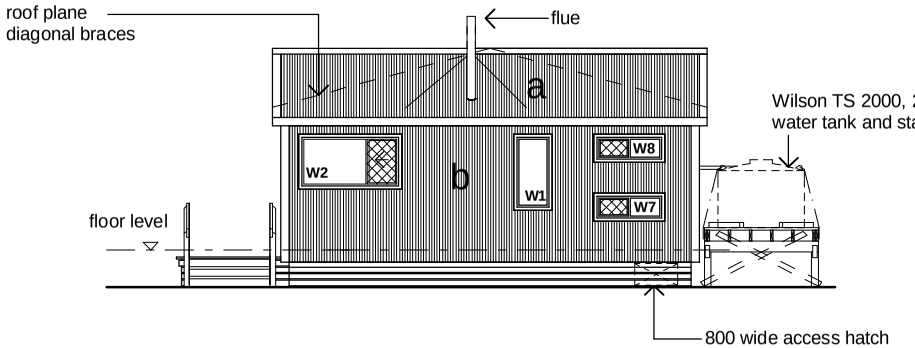


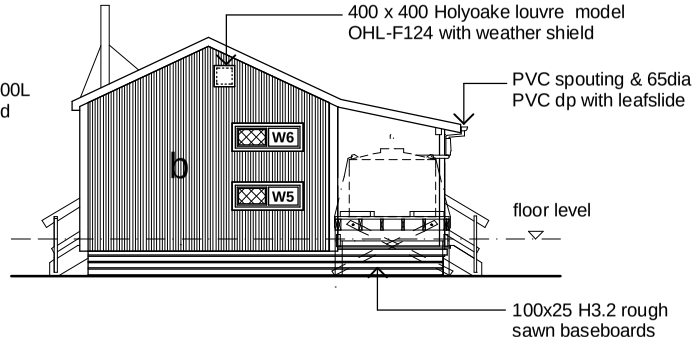
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

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f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS elevations

SCALES 1:100 , 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03D	

DATE xyz

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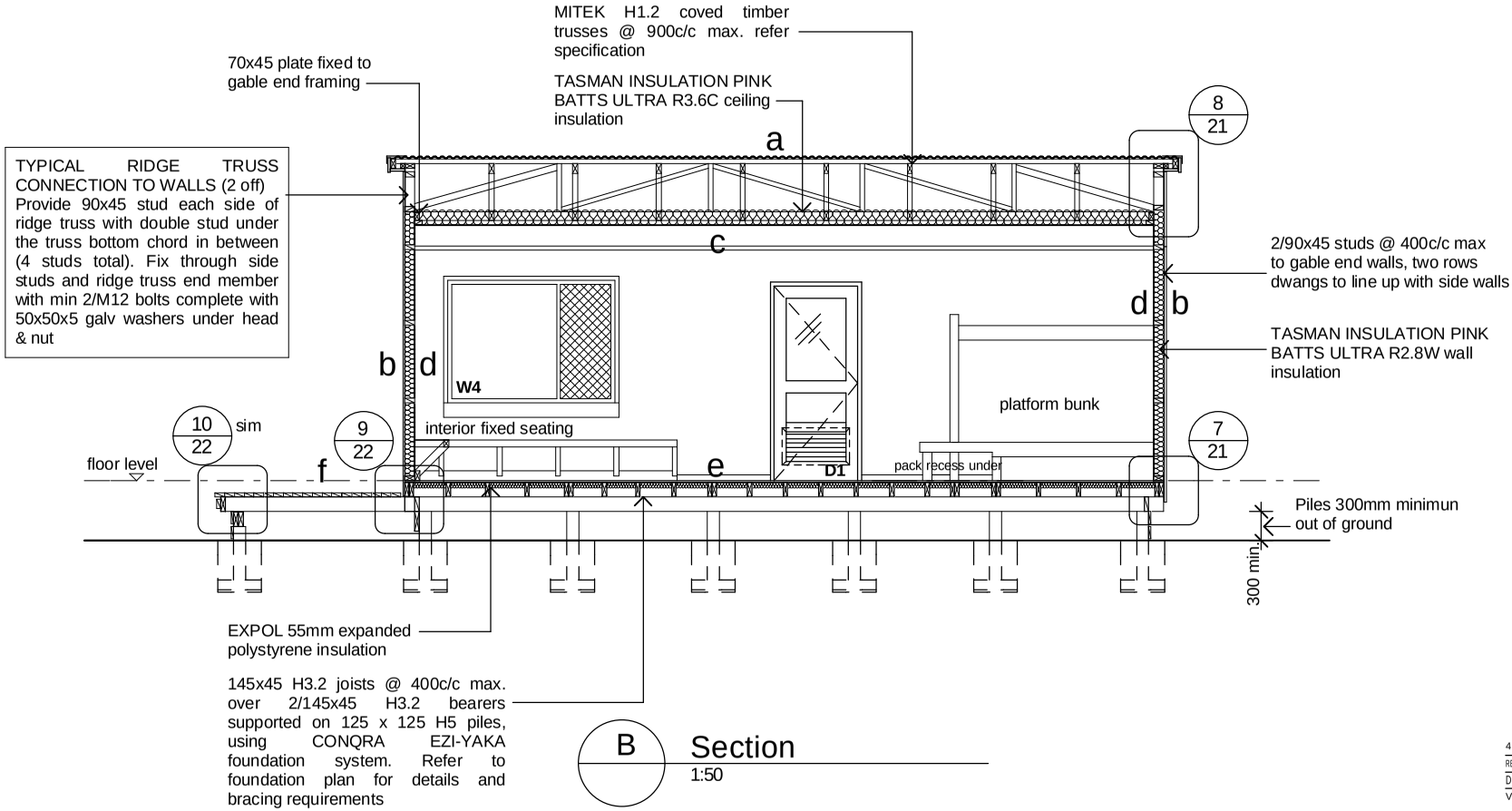

B Section
1:50

Material Note:

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REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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PROJECT **HUT NAME**

LOCATION LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS: section B

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05D	

DATE xyz

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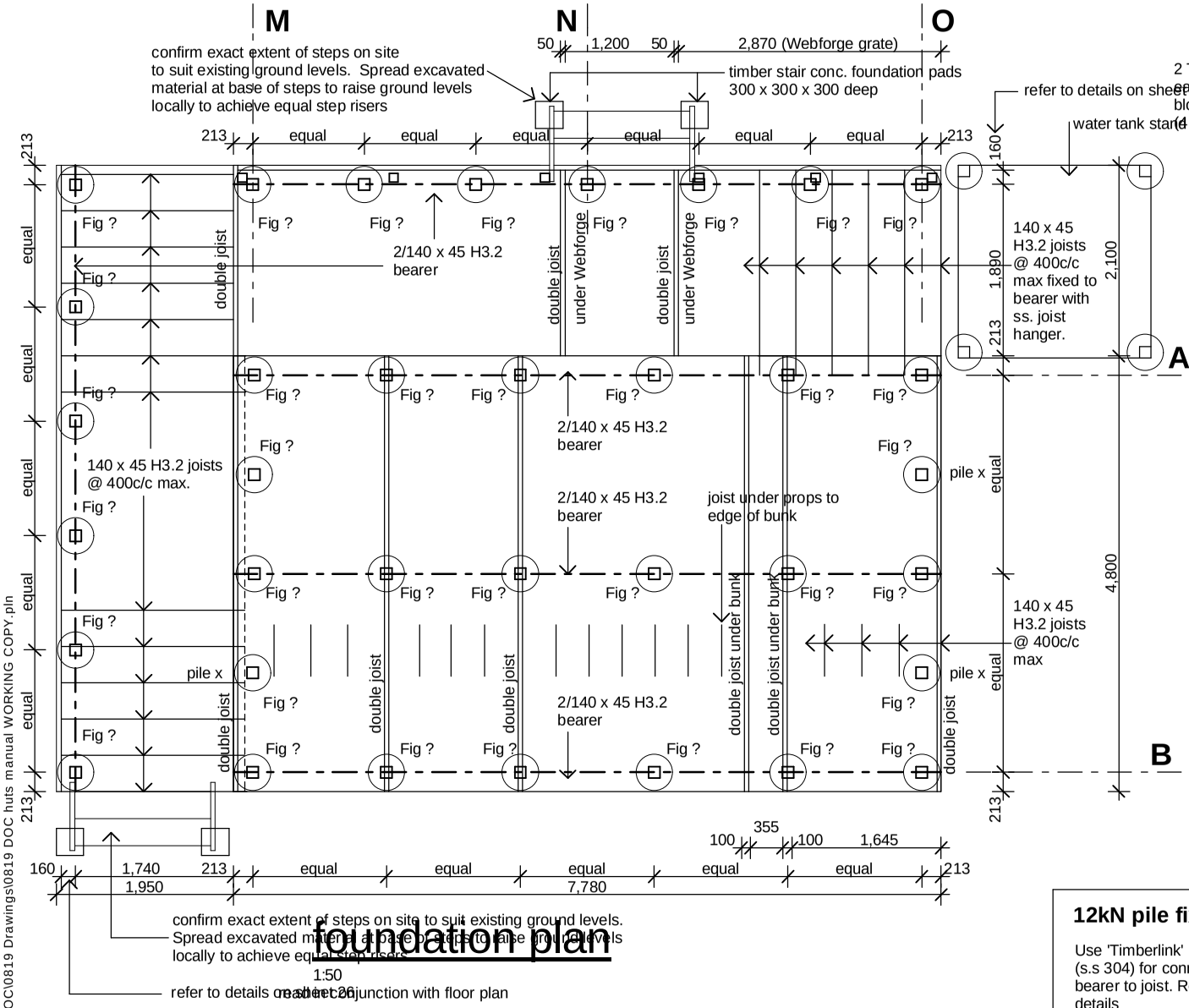
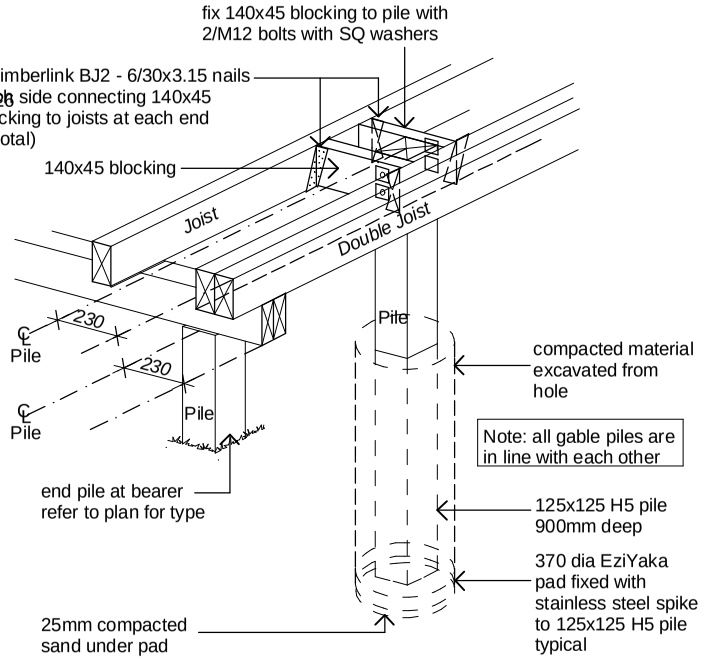


foundation plan

1:50



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06D	

DATE: xyz

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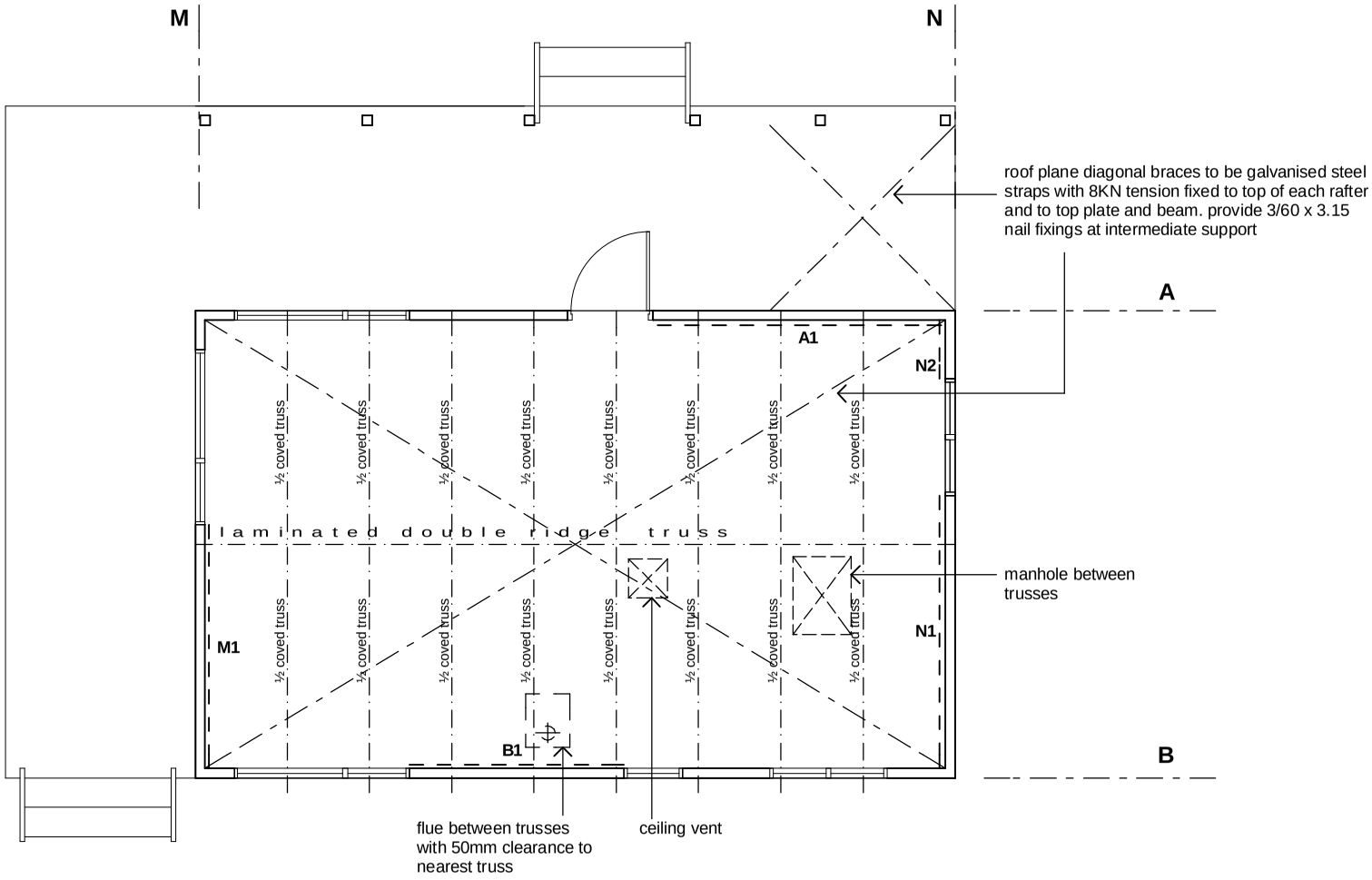

bracing plan

1:50

note:

1. A1 — indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option

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Contractor shall check all Dimensions on site prior to construction

Department of Conservation
Te Papa Atawhai

PROJECT: **HUT NAME**

LOCATION: LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07D	

DATE: xyz

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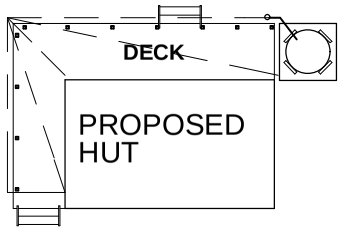
DESIGN CRITERIA:
altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA



site plan

1:200

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

Drawing Issue and Amendments

V4.0 Standard Visitor 12 Bunk Hut-Appendix B2.4-Deck/Roof Option

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LOCATION	LOCATION NAME NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME
SHEET CONTENTS	site plan
SCALES	1:200 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	**01R**	

DATE xyz

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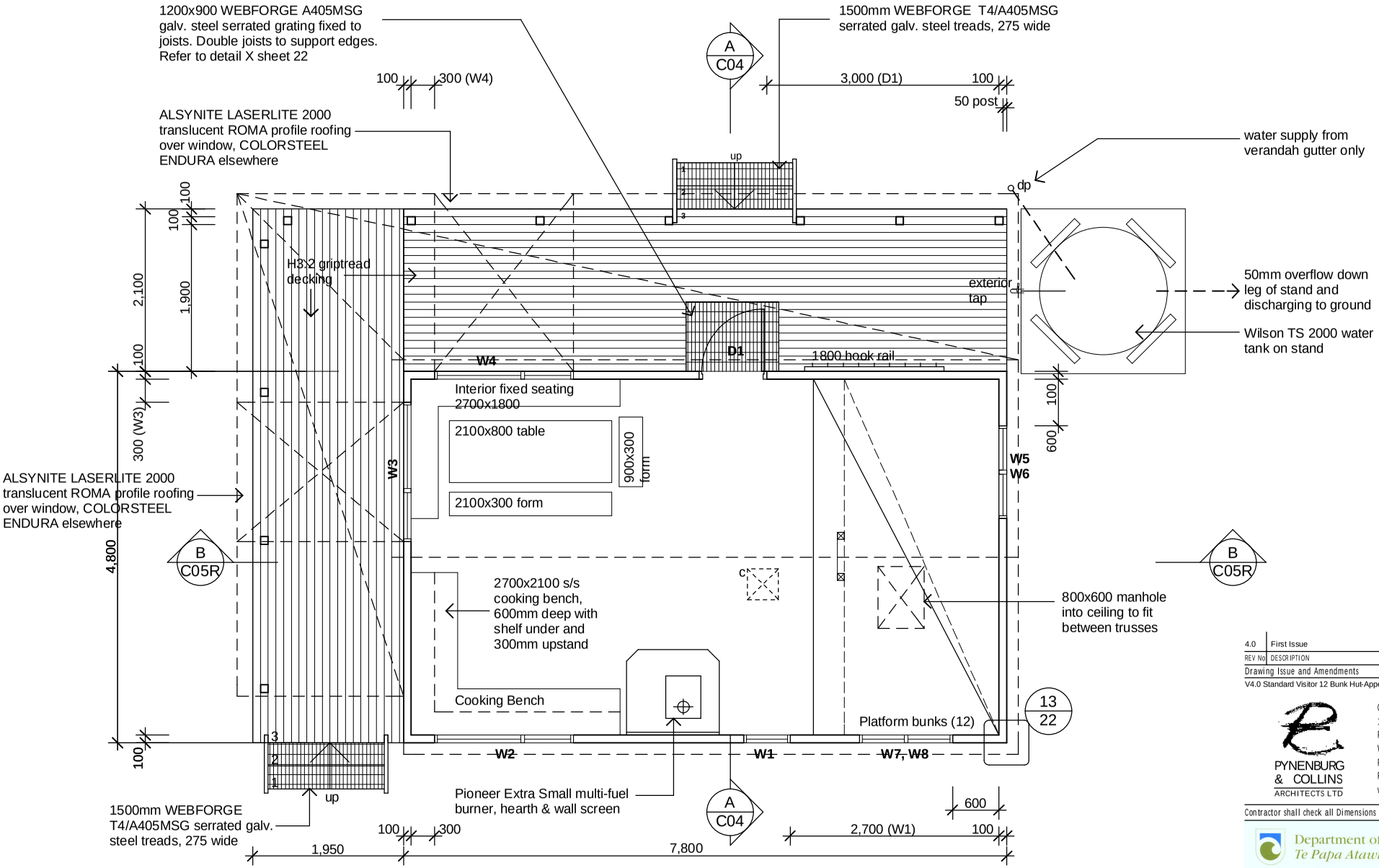

floor plan

1:50

note:

1. c indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

1 2 3 4 elevation key

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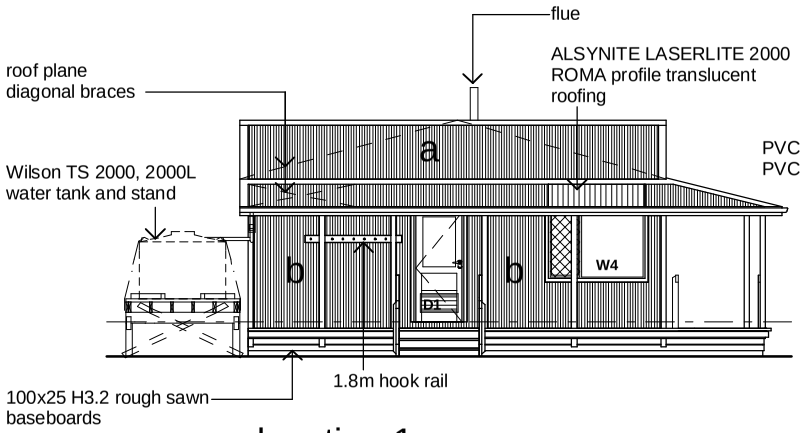
SHEET CONTENTS: floor plan

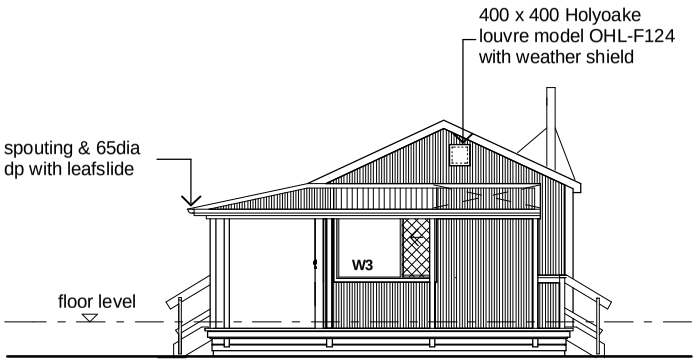
SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	02R	

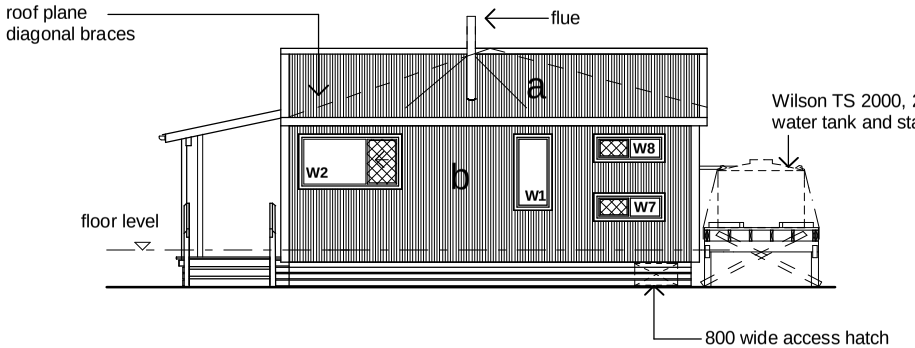
DATE xyz



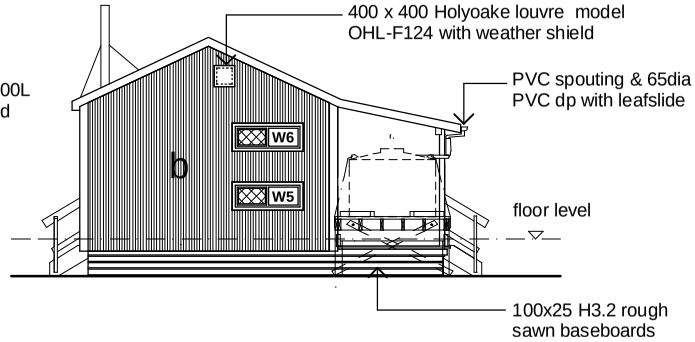
elevation 1 Scale 1:100



elevation 2 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

REV No	DESCRIPTION	DATE	DWN	CKD
4.0	First Issue	Mar 09	-	-

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SHEET CONTENTS elevations

SCALES 1:100 , 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C03R	

DATE xyz

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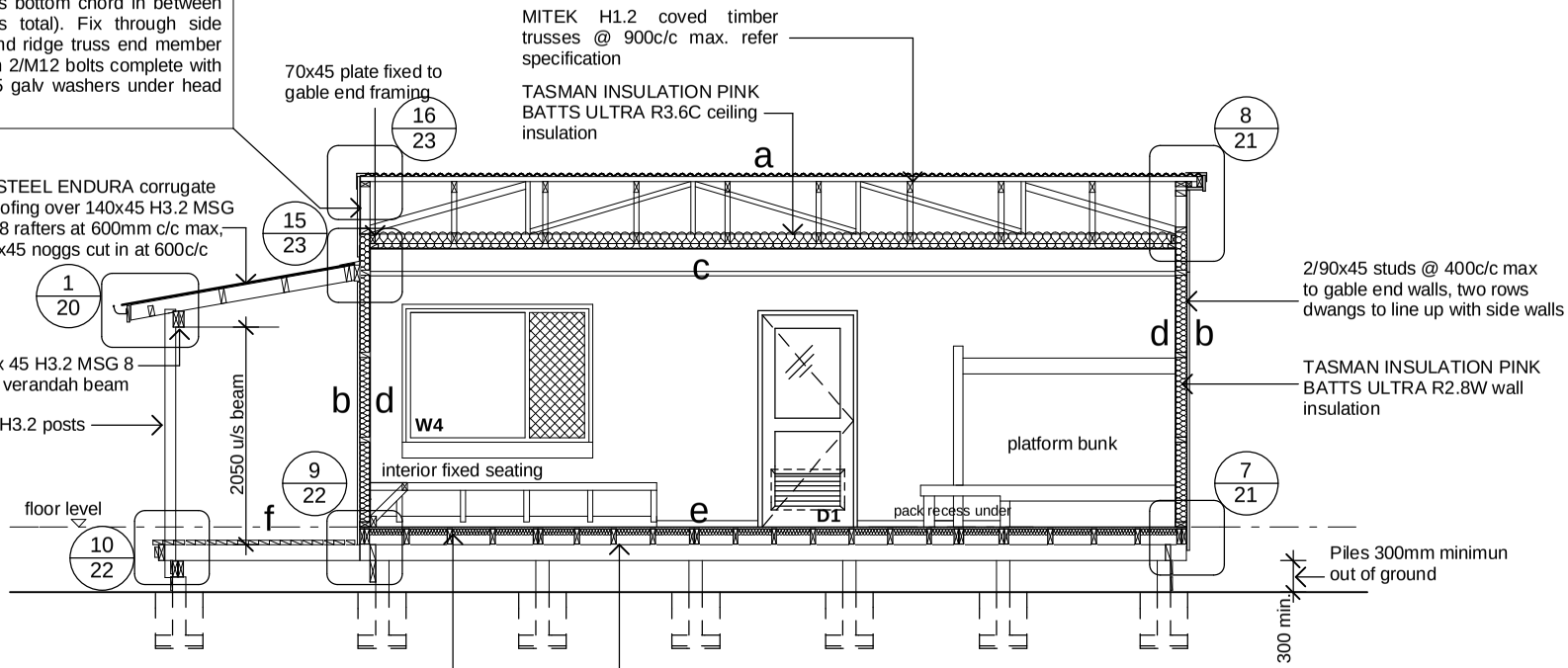
TYPICAL RIDGE TRUSS CONNECTION TO WALLS (2 off)
Provide 90x45 stud each side of ridge truss with double stud under the truss bottom chord in between (4 studs total). Fix through side studs and ridge truss end member with min 2/M12 bolts complete with 50x50x5 galv washers under head & nut



EXPOL 55mm expanded polystyrene insulation

145x45 H3.2 joists @ 400c/c max. over 2/145x45 H3.2 bearers supported on 125 x 125 H5 piles, using CONQRA EZI-YAKA foundation system. Refer to foundation plan for details and bracing requirements

B Section
1:50

Material Note:

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REV No	DESCRIPTION	DATE	DWN	CKD
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PROJECT **HUT NAME**
LOCATION LOCATION NAME
NATIONAL PARK NAME
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SHEET CONTENTS: section B
SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	C05R	

DATE xyz

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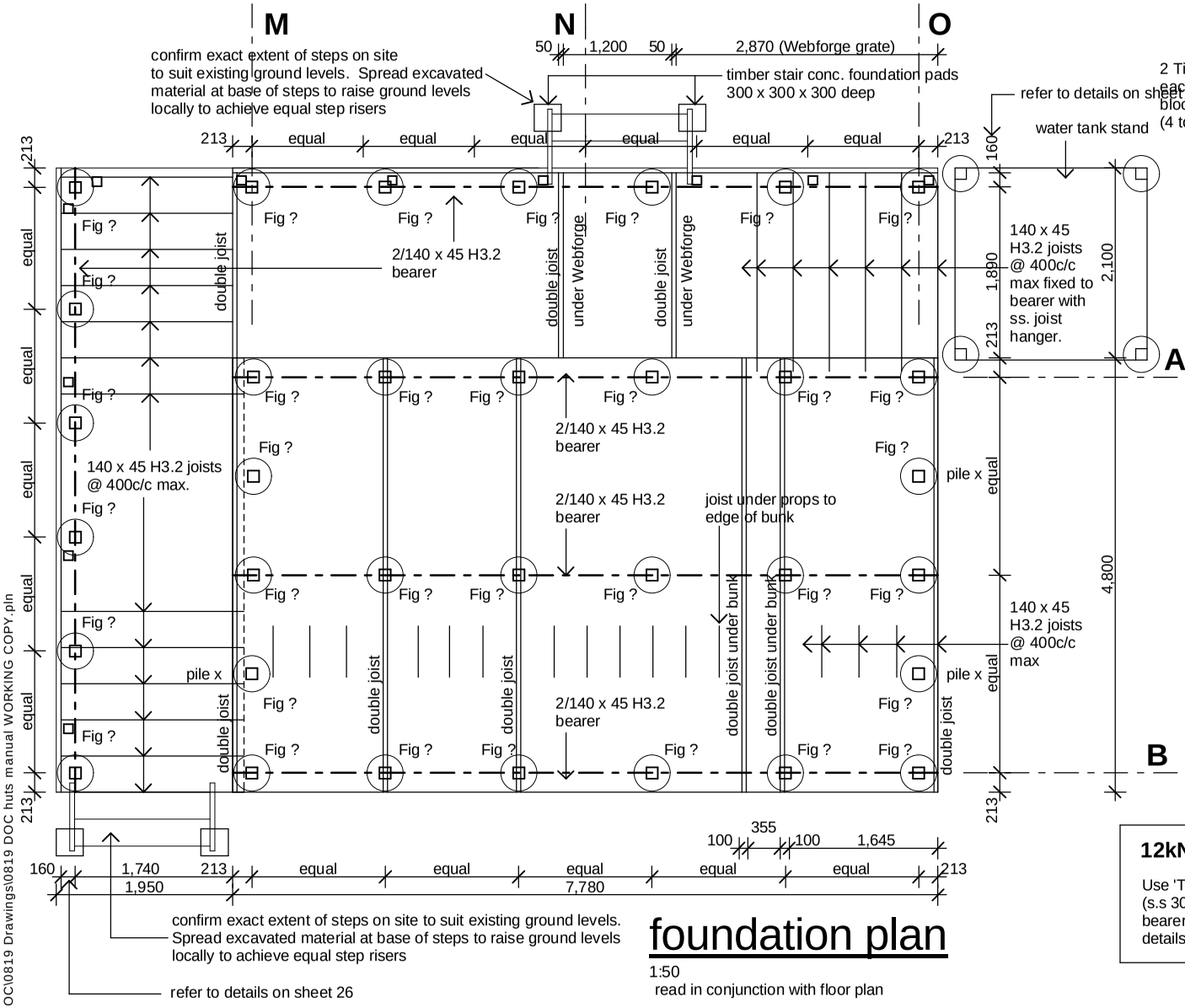
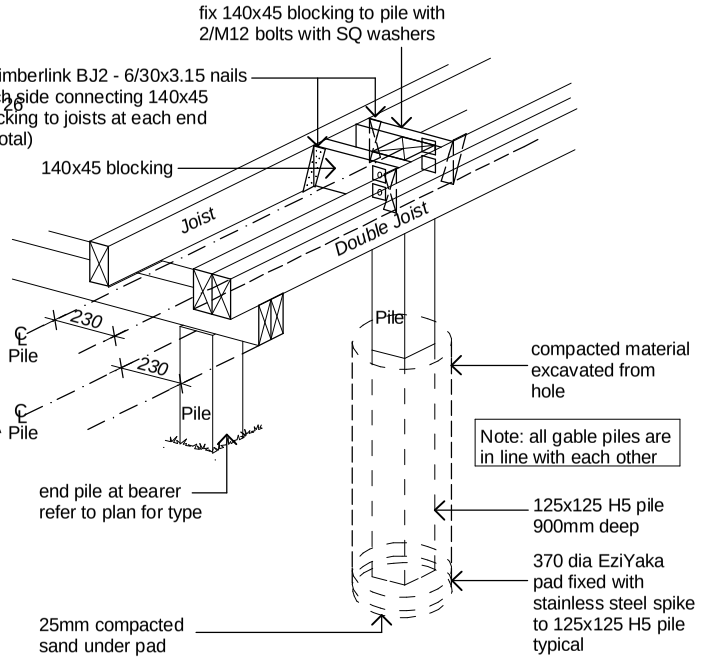


foundation plan

1:50

read in conjunction with floor plan



pile x detail

1:20

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
2. Piles: 125x125 H5 treated over dimensions shown
3. refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

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4.0	First Issue	Mar 09	-	-

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LOCATION: LOCATION NAME
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AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: foundation plan

SCALES: 1:50, 1:20 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	06R	

DATE: xyz

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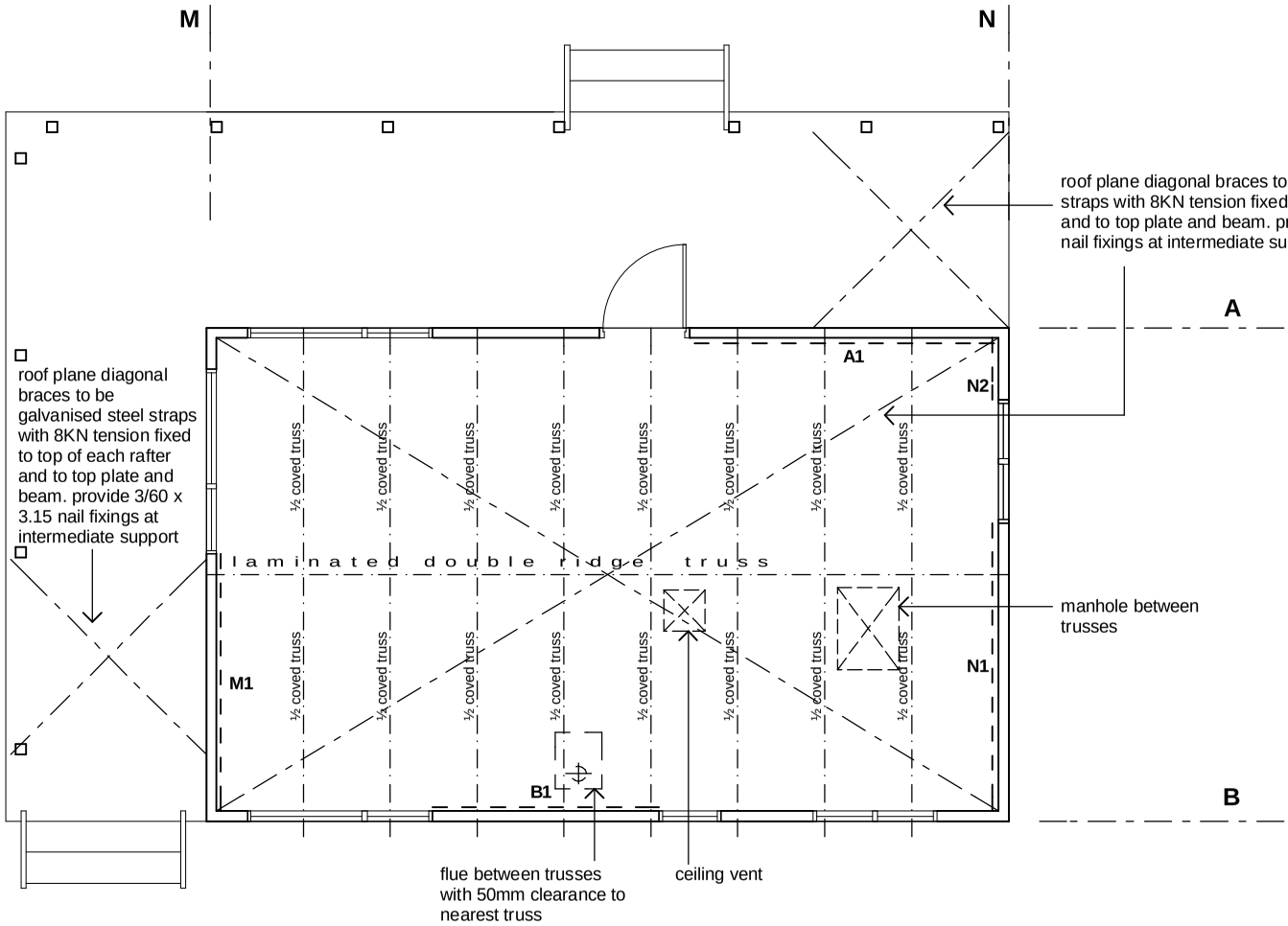
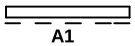


bracing plan

1:50

note:

1. 

indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

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SHEET CONTENTS: bracing plan

SCALES: 1:50 @ A3 SHEET SIZE

DESIGN	DRAWN	CHECKED	PROJECT No.	SHT No.	REV No.
RP	GR	RP	xyz	07R	

DATE xyz

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