

Proposed Concrete Slab to Support  
Ice Making Factor at Friday Flat - Thredbo NSW

PRACTICAL ENGINEERING SOLUTIONS P/L



ACN 157 931 069

STRUCTURAL DRAWING LIST

SHEET NO	TITLE
S01	COVER
S02	SPECIFICATIONS
S03	SLAB & FOOTING PLAN
S04	FOOTING SECTIONS
S05	RETAINING WALL DESIGN



Department of Planning  
Housing and Infrastructure

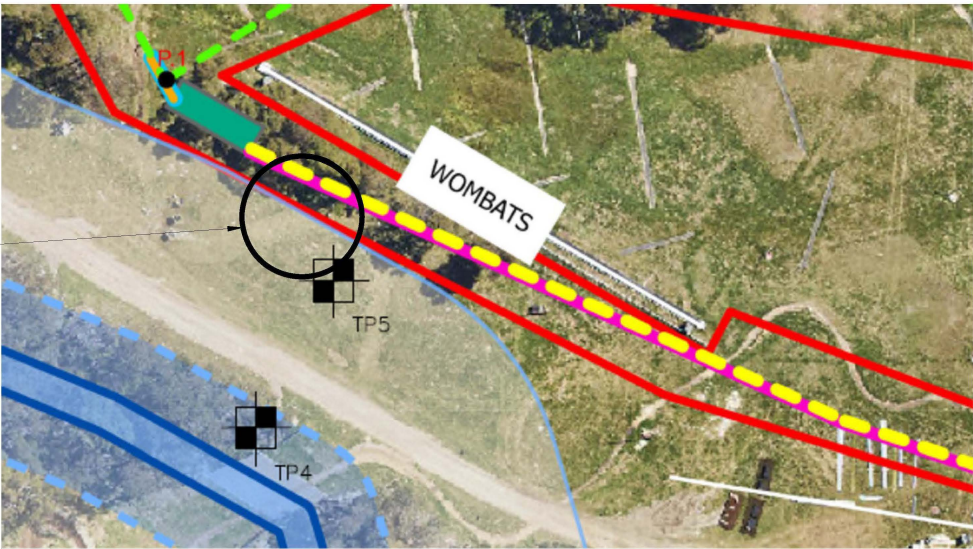
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Approved Application No 24/16834

Granted on the 9 April 2025

Signed Z Derbyshire

Sheet No 21 of 26



PROPOSED LOCATION

LOCALITY MAP - GEOTECH REPORT EXTRACT

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Drawing Name:

Proposed Concrete Slab to Support  
Ice Making Factor at Friday Flat -  
Thredbo NSW

Client:

KOSCIUSZKO THREDBO P/L  
C/- RUSSELL NURIDIN  
THREDBO NSW 2627  
Structural Sheet No. S01 of 5

Scale: NTS  
Date: 06.11.2024  
Drawing No: 2024 1018A  
COVER PAGE  
Sheet Size: A3  
Designed: O Boaru  
Drawn: A Sferle  
Checked: O Boaru

Approved:

Ovi Boaru MIEAust CPEng

ISSUE	DATE	AMENDMENT	INITIALS
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All workmanship and materials to conform with latest edition of the Building Code of Australia and relevant Australian Standards.

The contractor is to confirm all dimensions prior to commencing any works on site.

Refer to specification for other relevant information details.

NOTES:

- 1. All workmanship and materials to conform with the latest edition of the building code of Australia and relevant Australian standards.
- 2. It is not implied or guaranteed that all structural designs and details shown in these plans are complete. The scope of the work has been determined by the Engineer based on the information supplied by the client or the clients consultants. The Engineer will provide further designs if required, but is not responsible for any associated cost where design details have not been specifically requested.
- 3. All dimensions on these plans should be checked on site by the builder and verified using Architectural plans and other contract documents. Discrepancies to be referred to the Architect or Engineer.
- 4. DO NOT SCALE FROM THESE DRAWINGS
- 5. The structural details shown in these plans are applicable to the Architectural plans and building elements by KT Py Ltd Architect indicated therein:  
Plans No. - KTI - SNOW PRO 260, Preliminary 03.04.2023  
Plan date - 03.04.2023  
Roof Structure - Steel Container Roof  
Wall Structure - Steel Container Wall  
Floor Structure - Concrete Slab
- 6. Reference to UNO = Unless Noted Otherwise & NA = Not Applicable.
- 7. Handrail construction to BCA requirements.
- 8. Where disturbed existing building must have bracing and tie-down investigated by the builder and referred to the Engineer for compliance checking. NA

SITE CONDITIONS:

- 1. Stability/Vegetation -
- 2. Drainage -
- 3. Soil Type/profile -
- 4. AS2870 - 2011 site classification - Class 'P' See geotech report Ref 7604-R1-Rev1 Dated 26 September 2024 by AssestGeoEnviro
- 5. AS4055 - 2012 wind classification N3 50m/s (Vh,u).
- 6. AS1170.3 - 2003 Ultimate Ground Design 1 / 150 Snow Load AT Thredbo - 9.0 KPa



NA  
NA  
NA

CONCRETE:

- 1. All concrete works to be in accordance with AS3600 2001
- 2. Concrete strength cover and durability details (refer AS3600)  
Footings - 32 MPa  
Internal Slab Garage -25MPa  
External Slab - 40 MPa (or 20MPa if weather proofed, ie tiling)  
Beams/Columns - NA
- 3. All reinforcement to be adequately supported on bar chairs in correct positions.
- 4. Concrete to be formed as required by AS3610 and compacted in accordance with AS3600 and AS3610 to achieve specified or relevant density durability and strength.
- 5. All reinforced fabric to be lapped one mesh panel plus 25mm and reinforcement bars lapped 40 bar diameters, UNO.

FOOTINGS:

- 1. Footings and slabs on ground designs conform with AS 2870-2011.

MASONRY:

- 1. All masonry (clay, stone and concrete) to comply with AS3700 2011. masonry code.
- 2. Masonry control joints to AS3700.
- 3. Core fill grout mix for hollow block fill to be 20 MPa.

TIMBER:

- 1. All timber construction to comply with Australian Framing Code AS1684.2 - 2010.
- 2. Bracing and tie down as shown on These Sheets comply with AS 1684.2-2010.
- 3. For external use, use Class 1 or Class 2 HW or Treated Timbers.

STEEL:

- 1. All steel construction to comply with AS4100 steel structures code and AISC Connection Details.

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Structural Sheet No. S02 of 5

Scale: NTS  
Date: 06.11.2024  
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SPECIFICATIONS

Sheet Size: A3  
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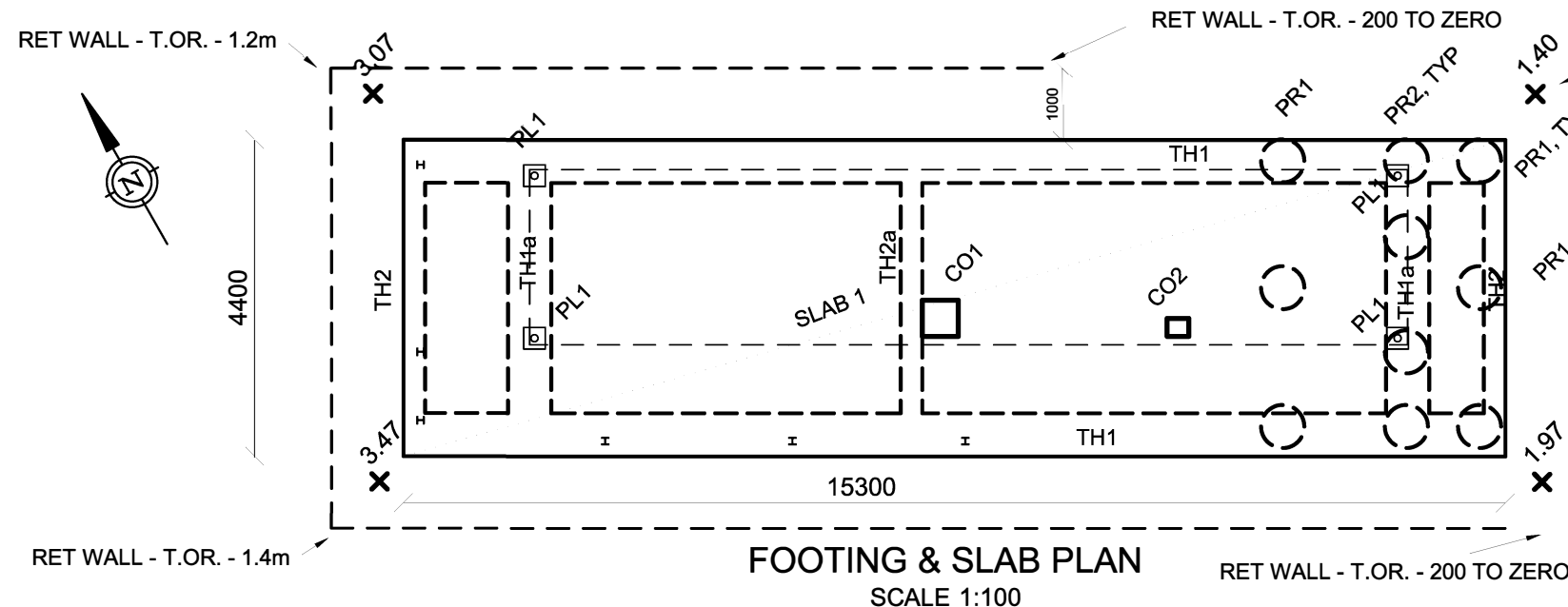
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Structural Sheet No. S04 of 5

Scale:

1:20

Date:

06.11.2024

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SECTIONS

Sheet Size:

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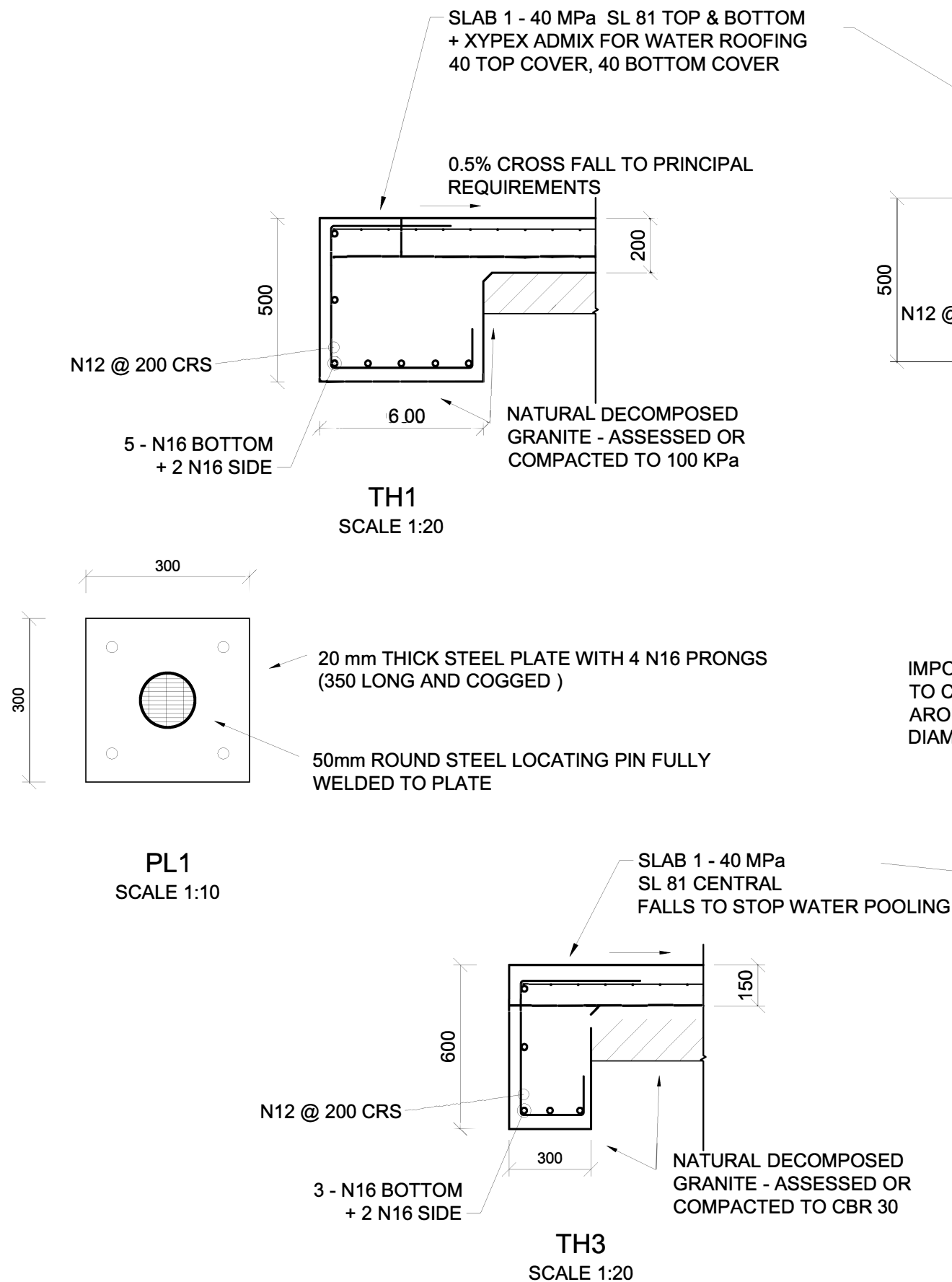
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IMPORTANT NOTE  
TO CREATE A RAFT SLAB - PROVIDE L BARS  
AROUND ALL CORNERS - MIN LAP 40 BARS  
DIAMETER

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**Scale:** 1:20  
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RETAINING WALL  
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TABLE 1 - SURCHARGE 5 KPa								
100 x 85 x 4 BEAM	STEEL POST (BEAM)	WALL HEIGHT	HOLE SIZE	HOLE (H) DEPTH	2.4 SLEEPER	2.0 SLEEPER	1.8 SLEEPER	HOLE SIZE
SUITABLE	100 UC 14	600	300Ø	600	SUITABLE	SUITABLE	SUITABLE	300Ø
SUITABLE	100 UC 14	800	300Ø	800	SUITABLE	SUITABLE	SUITABLE	300Ø
SUITABLE	100 UC 14	1000	300Ø	1,000	SUITABLE	SUITABLE	SUITABLE	300Ø
SUITABLE	100 UC 14	1200	450Ø	1,200	SUITABLE	SUITABLE	SUITABLE	300Ø
SUITABLE	100 UC 14	1400	450Ø	1,400	SUITABLE	SUITABLE	SUITABLE	300Ø



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TYPICAL RETAINING WALL SECTION  
SCALE NTS

