DRAWINGS SHOW CONCEPTUAL STRUCTURAL DESIGN

GENERAL NOTES:
1. STRUCTURAL DESIGN TO BE IN ACCORDANCE WITH PART 9 OF THE NATIONAL BUILDING CODE UNLESS OTHERWISE NOTED.
2. STRUCTURAL DESIGN REQUIRING DESIGN INPUT FROM A PROFESSIONAL ENGINEER TO BE IN ACCORDANCE WITH PART 4 OF THE NATIONAL BUILDING CODE.

WOOD
3. LUMBER: UNLESS SPECIFIED OTHERWISE, SOFTWOOD LUMBER, SPF NO. 1 AND NO. 2, S4S, SPF MOISTURE CONTENT 19% OR LESS, IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
   A. CAN/CSA-O141
   B. NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER
4. FURRING, BLOCKING, NAILING STRIPS, GROUNDS, ROUGH BUCKS AND SLEEPERS:
   A. BOARD SIZES: "STANDARD" OR BETTER GRADE
   B. DIMENSION SIZES: "STANDARD" LIGHT FRAMING OR BETTER GRADE
   C. POST AND TIMBERS SIZE: "STANDARD" OR BETTER GRADE
5. PLYWOOD: DOUGLAS FIR PLYWOOD, T&G EXTERIOR SHEATHING GRADE, TO CSA O121 - DOUGLAS FIR PLYWOOD, THICKNESS AS SPECIFIED.
6. ALL SHEATHING TO BE A MINIMUM 19 mm (3/4") OSB, O-2 GRADE. THE GRAIN OF SUBFLOOR TO BE INSTALLED PERPENDICULAR TO THE FRAMING.
7. INSTALL BLOCKING BEHIND SHEATHING JOINTS TO MINIMIZE DEFLECTION.
8. ALL LOAD BEARING WOOD STUD WALLS TO BE A MINIMUM OF 38x140 mm (2x6) AT 400 mm (16") O/C UNLESS STATED OTHERWISE AND HAVE A MAXIMUM WALL HEIGHT OF 3.0 m.
9. ALL NON LOAD BEARING WOOD STUD WALLS TO BE A MINIMUM OF 38x89 mm (2x4) AT 400 mm (16") O/C UNLESS STATED OTHERWISE AND HAVE A MAXIMUM WALL HEIGHT OF 3.6 m.

FASTENERS
10. NAILS, SPIKES AND STAPLES SHALL CONFORM TO CSA B111.
11. WOOD SCREWS: STAINLESS STEEL ARE TO BE TYPE 304 OR 316.
12. DIAMETER OF NAILS SHALL BE AS FOLLOWS:
   12.1. MIN. LENGTH OF NAIL = 57 mm, MIN. DIAMETER OF NAIL = 2.87 mm
   12.2. MIN. LENGTH OF NAIL = 63 mm, MIN. DIAMETER OF NAIL = 3.25 mm
   12.3. MIN. LENGTH OF NAIL = 76 mm, MIN. DIAMETER OF NAIL = 3.66 mm
   12.4. MIN. LENGTH OF NAIL = 82 mm, MIN. DIAMETER OF NAIL = 3.66 mm
   12.5. MIN. LENGTH OF NAIL = 101 mm OR GREATER, MIN. DIAMETER OF NAIL = 4.88 mm

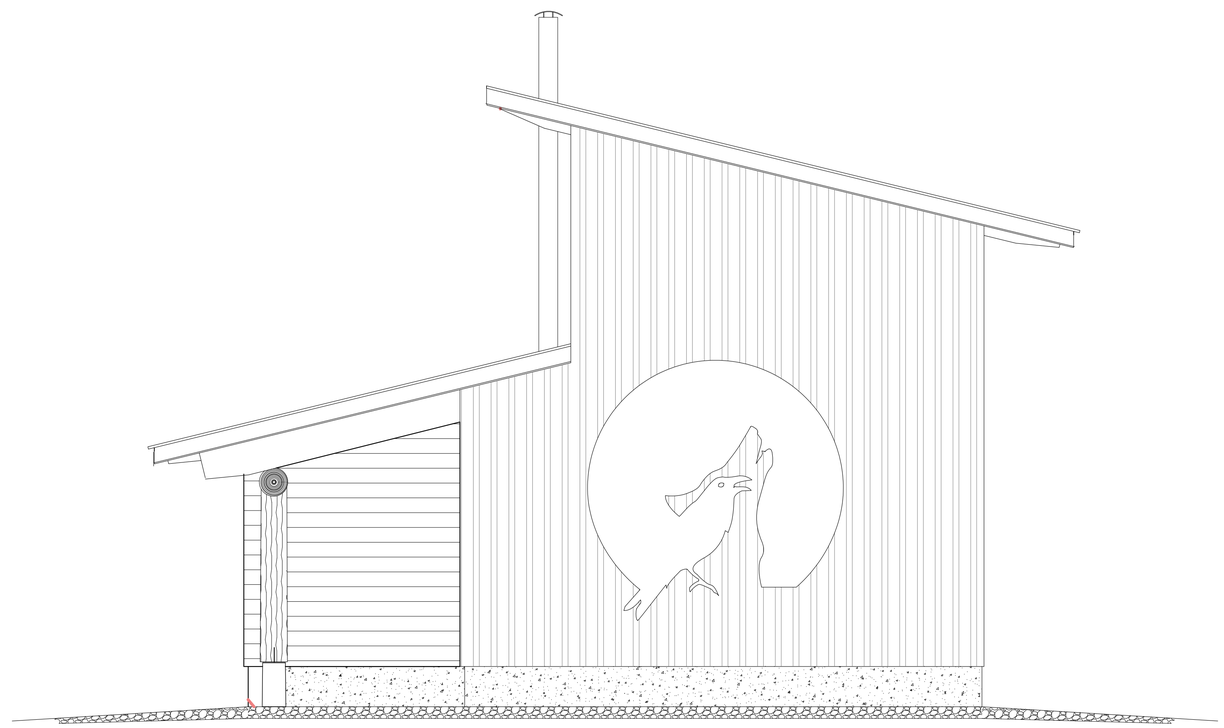
CONCRETE
13. CONCRETE TO BE A MIN. 20 MPa IN COMPRESSIVE STRENGTH.
14. FOUNDATION WALLS TO BE A MIN. 250 mm (10") IN THICKNESS.
15. OVERALL HEIGHT OF FOUNDATION WALLS ARE TO BE 3.0 m (9'-10") WITH A MAX. HEIGHT OF FINISHED GROUND ABOVE BASEMENT FLOOR OF 2.85 m (9'-4").

NAILING FOR FRAMING

CONSTRUCTION DETAIL	MIN. LENGTH OF NAILS (mm)	MIN. NUMBER OR MAX. SPACING OF NAILS
FLOOR JOIST OR BLOCKING PERPENDICULAR TO SILL PLATE OR TOP WALL PLATE BELOW - TOE NAIL	82	2 PER FLOOR JOIST OR BLOCKING
WOOD STRAPPING TO UNDERSIDE OF FLOOR JOIST	57	2
CROSS BRIDGING TO JOISTS	57	2 AT EACH END
FLOOR JOIST TO STUD	76	2
JOIST TO JOIST SPLICE	76	2 AT EACH END
STUD TO WALL PLATE (EACH END) TOE NAIL	63	4
DOUBLE STUDS AT OPENINGS, OR STUDS AT WALLS OR WALL INTERSECTIONS AND CORNERS	76	750 mm O/C
DOUBLE TOP WALL PLATES	76	600 mm O/C
BOTTOM WALL PLATE TO FLOOR JOISTS, RIM JOISTS, OR BLOCKING	82	400 mm O/C
INTERIOR WALLS TO FRAMING OR SUBFLOORING	82	600 mm O/C
LINTELS TO STUDS	82	2 AT EACH END
CEILING JOISTS TO PLATE - TOE NAIL EACH END	82	2
ROOF RAFTER, ROOF TRUSS, OR ROOF JOIST TO PLATE - TOE NAIL	82	3

SERVICE DESIGN LOADS

LOCATION (EXAMPLE, DEASE LAKE, BC)	
SNOW LOAD (1:50)	Ss = 1.9 kPa
RAIN LOAD (1:50)	Sr = 0.2 kPa
WIND LOAD (1:50)	q = 0.30 kPa
SEISMIC LOAD	Sa(0.2) = 0.103
	Sa(0.5) = 0.091
	Sa(1.0) = 0.074
	Sa(2.0) = 0.049
	PGA = 0.044



1 / S-00 SITE PLAN NOTES
1:100

NOTES

All dimensions in Metric

REV#	YYYY-MM-DD	DESCRIPTION
1	YYYY-MM-DD	

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PROJECT
TECHNICAL GUIDE FOR NORTHERN HOUSING

DRAWING
TATL'AHKIME BUILDING STRUCTURAL GENERAL AND SITE NOTES

DESIGN	DATE	SCALE
JAB	2020-03-31	As Shown
DRAWN: JAB	PROJECT NO.: 1901150.01	
CHECKED: MM	DRAWING NO: S-00	VERSION: 01
APPROVED: MM		

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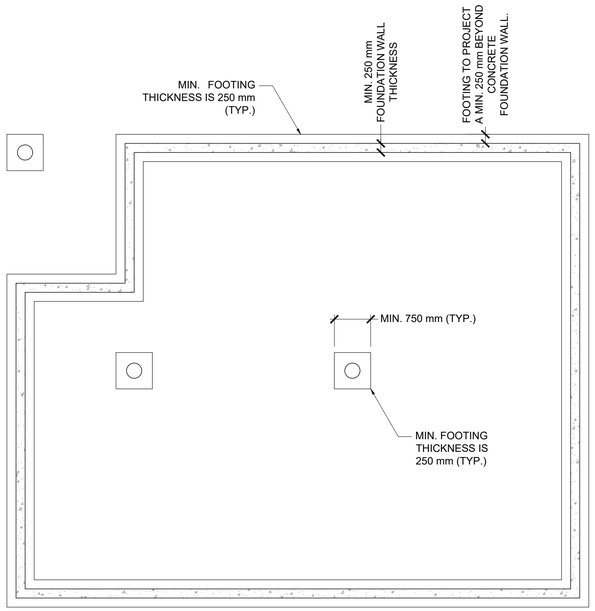
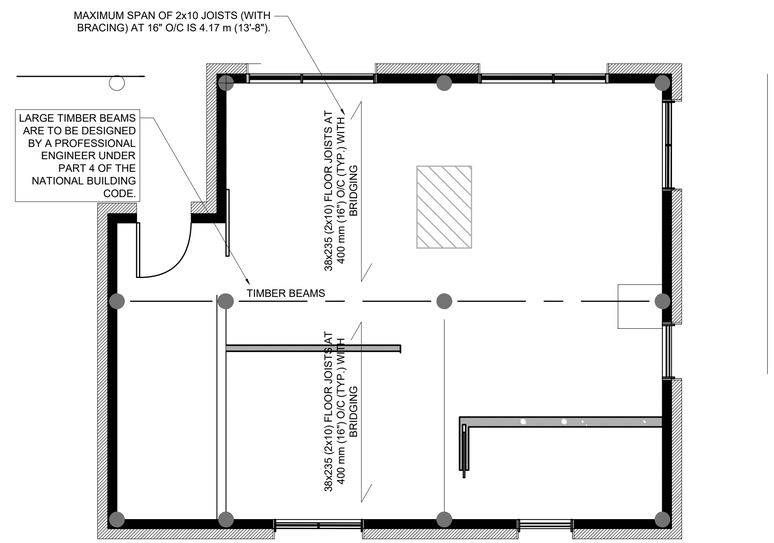


1 S-01 FOUNDATION PLAN
1:50



2 S-01 MAIN FLOOR FRAMING
1:50

NOTES

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PROJECT
TECHNICAL GUIDE FOR NORTHERN HOUSING

DRAWING
TATL'AHKIME BUILDING STRUCTURAL FOUNDATION AND MAIN FLOOR

DESIGN	DATE	SCALE
JAB	2020-03-31	As Shown
DRAWN: JAB	PROJECT NO. 1901150.01	
CHECKED: MM	DRAWING NO S-01	VERSION 01
APPROVED: MM		

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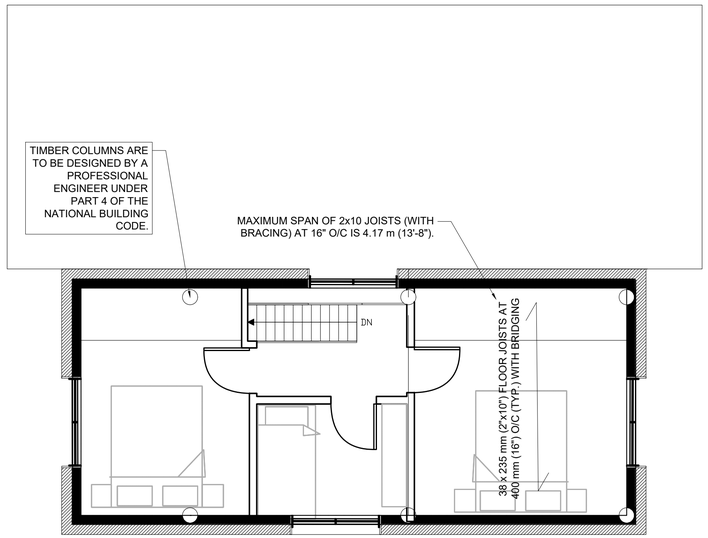
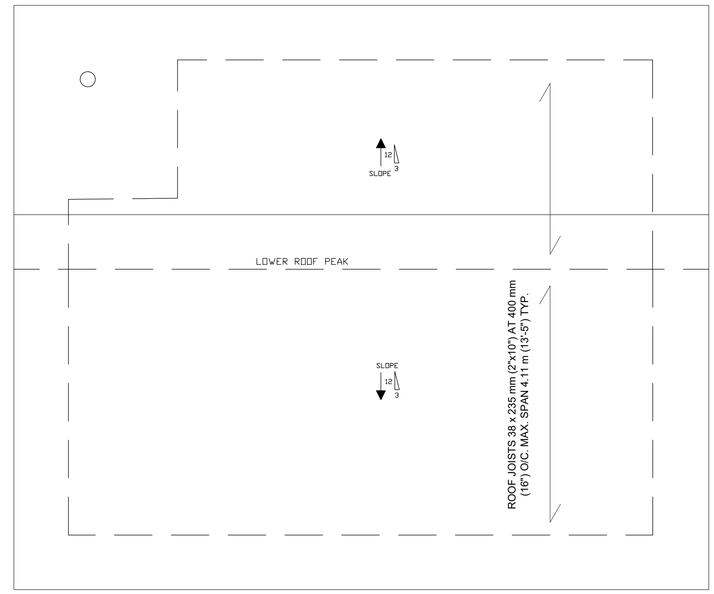


1 / S-02 SECOND FLOOR FRAMING
1:50



2 / S-02 ROOF FRAMING PLAN
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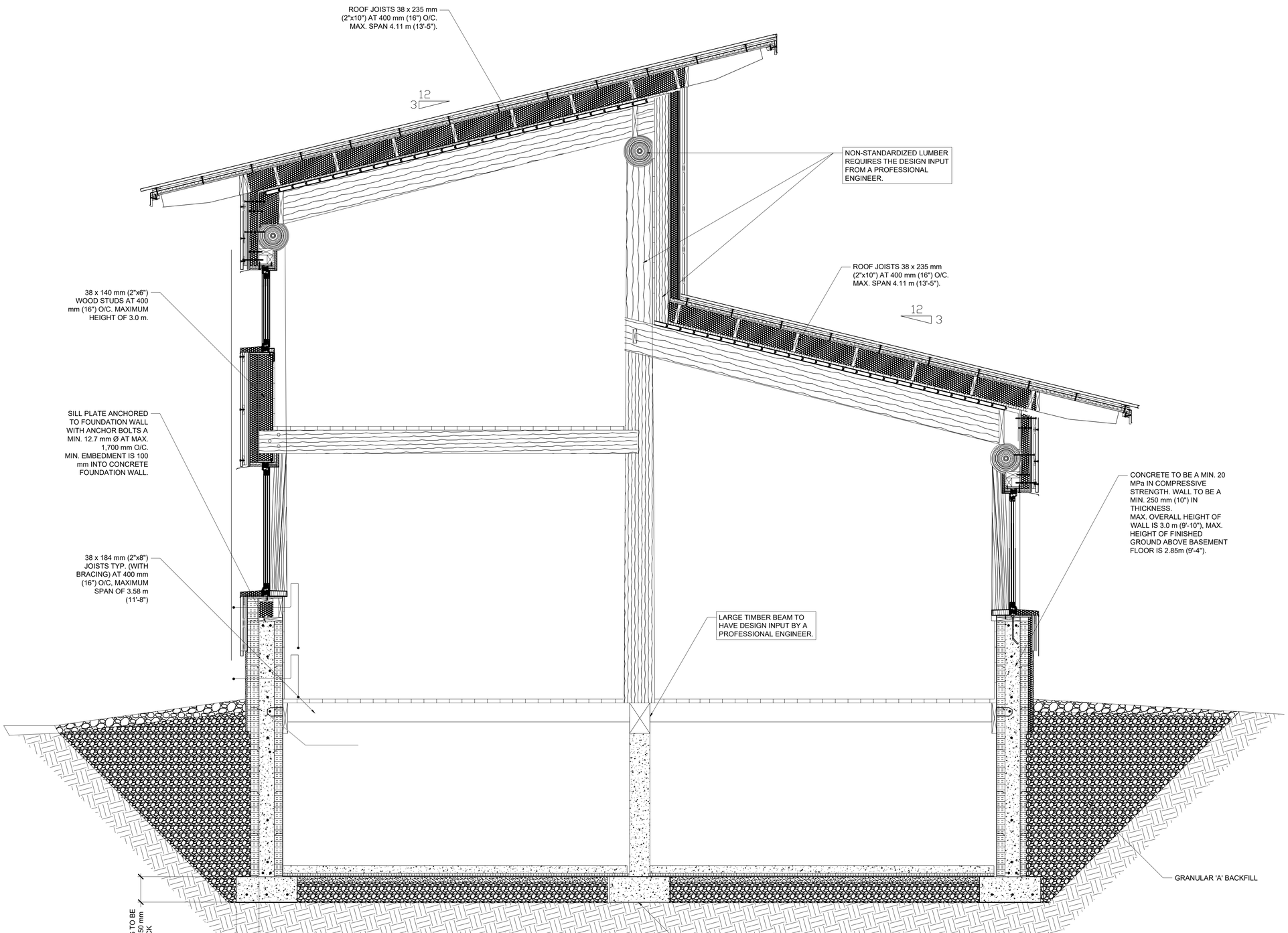

1 S-03 BUILDING SECTION
1:50

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