

**BASEMENT STRUCTURAL PLAN**  
SCALE: 1:75

### POST AND BEAM SCHEDULE

DESIGNATION	MEMBER TYPE	MEMBER SIZE	MEMBER GRADE
B1	BEAM	3-PLY LVL 44x406	3100Fb-2.0E
B2	BEAM	2-PLY LVL 44x406	3100Fb-2.0E
B3	BEAM	2-PLY 38x235	SPF No.2
P1	STEEL POST	*RED JACK 3.0 BY MITEK (No.T2JPHD)	
P2	GANG STUD	3-PLY 38x89	SPF No.2
P3	WOOD POST	**PSL 178x178 (7"x7")	1.8E
P4	WOOD POST	(SEE P4 DETAIL)	SPF No.2
P5	GANG STUD	3-PLY 38x140	SPF No.2
C1	STEEL COLUMN	HSS 127x127x6.4mm (SEE DETAIL 1 ON S4)	

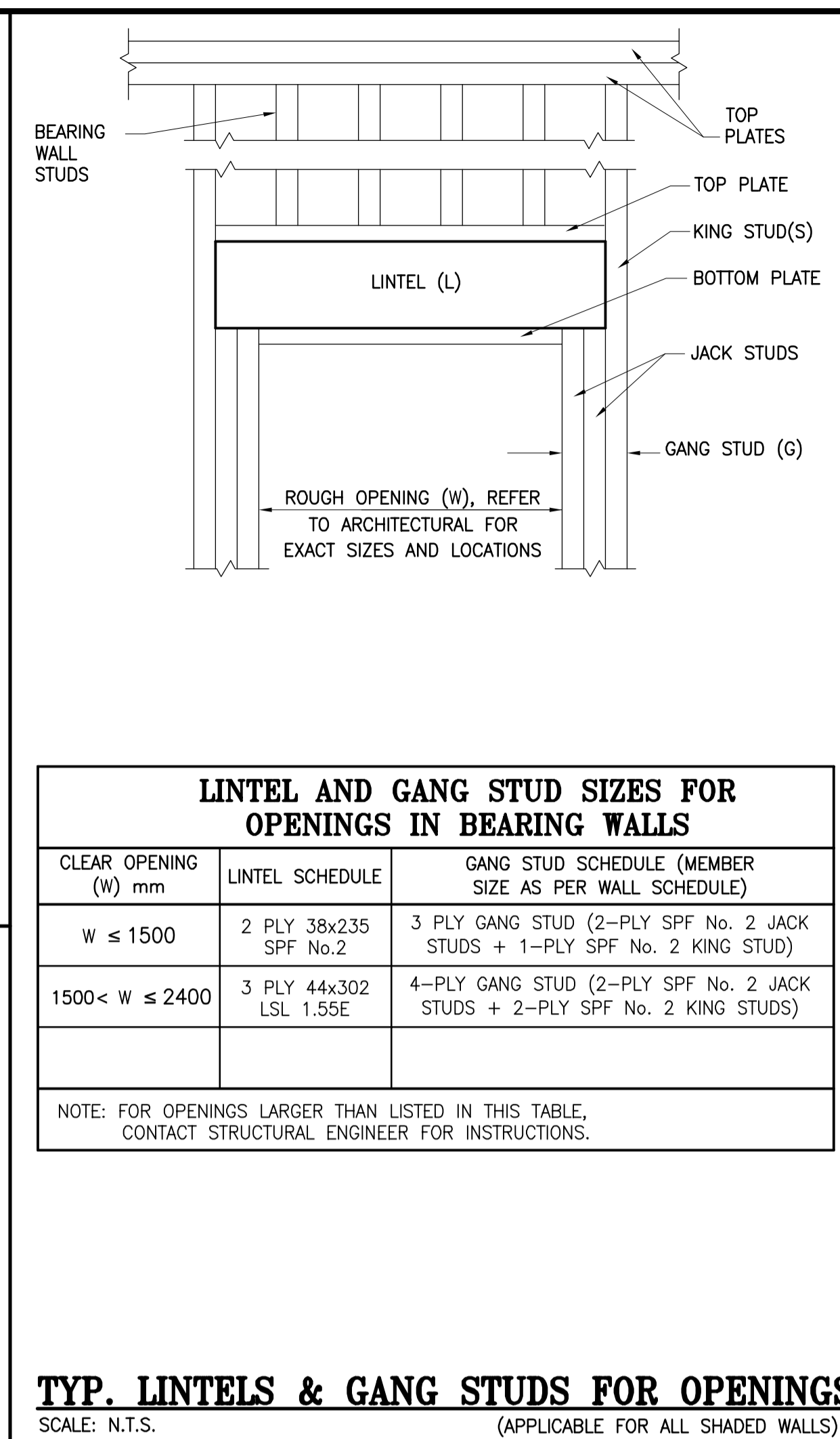
\* INSTALL WITH T2TP527 TOP PLATE, AND FIX BASE PLATE IN CONCRETE FOOTING WITH APPROPRIATE SCREWS.  
 \*\* INSTALL WITH SIMPSON STRONG TIE CONNECTORS: ECCU (WITH ROTATED STRAP CUSTOM TO FIT) AT TOP, AND REFER TO FLOOR PLAN FOR CONNECTION TYPE AT BASE.

NOTES:  
 - WALL SILL PLATE SHALL BE INTERRUPTED AT BASE OF POST SO THAT IT BEARS DIRECTLY ON CONCRETE WITH SPECIFIED BASE PLATE (EXCEPT POST ABOVE FOUNDATION POCKET; SILL PLATE TO REMAIN).  
 - ALL INSTALLATIONS AS PER MANUFACTURER'S INSTRUCTIONS.

### P4 DETAIL

SCALE: 1:16

NOTE: BUILT-UP POST TO BE COMPLETED WITH TOP PLATES AND SILL PLATE AS PER WALL SCHEDULE.



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### GENERAL NOTES

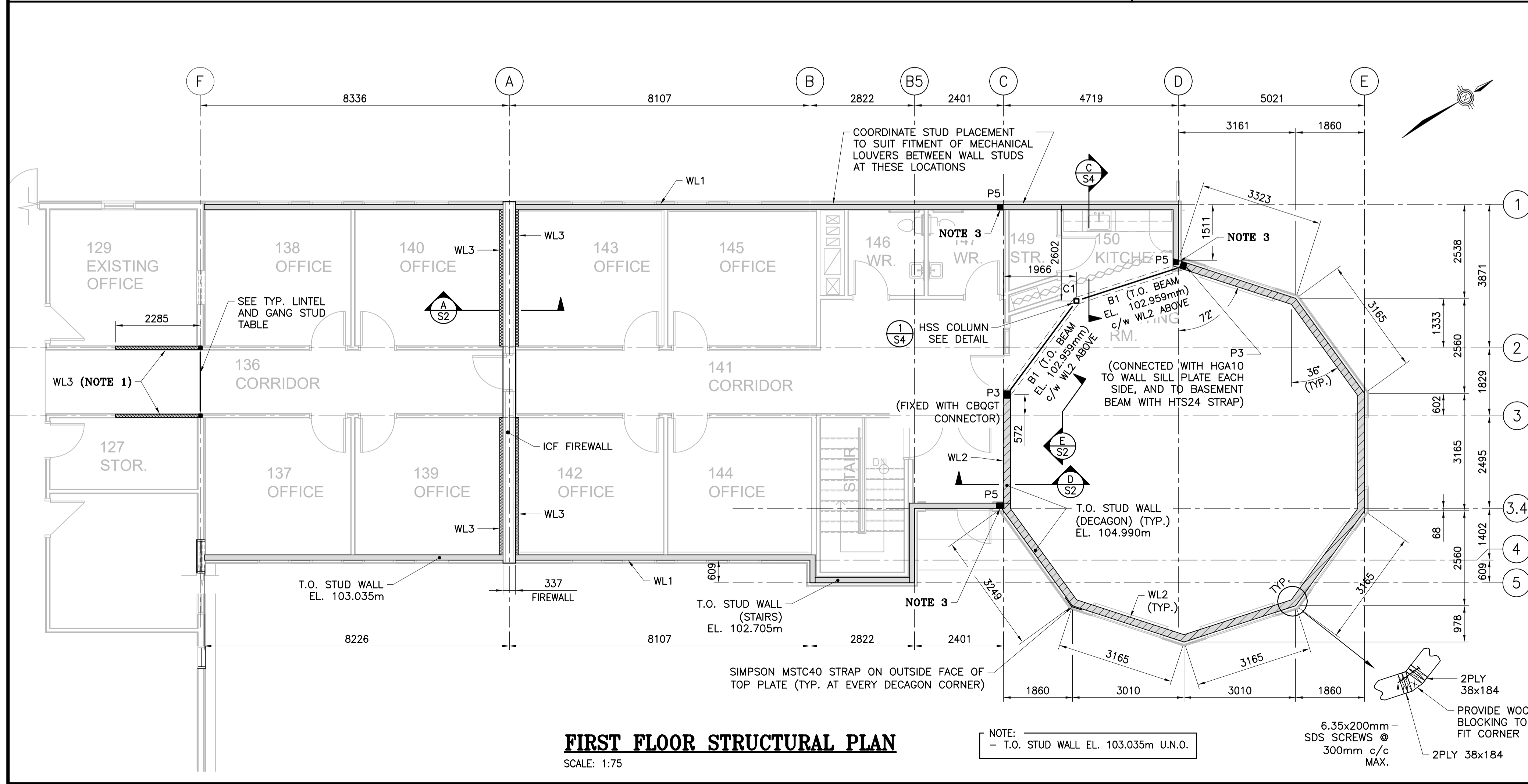
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LOCATIONS, ELEVATIONS AND/OR CONSTRUCTION DETAILS. REPORT ANY DISCREPANCIES TO THE CONSULTANT. DO NOT SCALE ON THESE STRUCTURAL DRAWINGS.
- STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL SPECIFICATIONS ON DRAWING S6.
- REFER TO ARCHITECTURAL DRAWINGS FOR FINISHES, AS WELL AS WALL OPENING DIMENSIONS AND LOCATIONS.
- THE TYPICAL DETAILS ON THESE STRUCTURAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT. REFER TO WRITTEN ANNOTATIONS AND SCHEDULES FOR EXACT ARRANGEMENT.

### SPECIFIC NOTES

- NO SHEATHING REQ. ON THIS WALL, ONLY GYPSUM AS PER ARCH.
- CONNECT END OF BEAMS TO P4 POST WITH HGA10 CONNECTOR BY SIMPSON STRONG TIE.
- POSITIONED GANG STUD UNDER GIRDER TRUSS.

NO. ISSUED FOR TENDER 2022/03/04  
 NO. REVISION DATE

A A DETAIL NUMBER  
 B B REFERENCE DWG NO.



**FIRST FLOOR STRUCTURAL PLAN**  
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### MINIMUM SHEATHING REQUIREMENTS

MATERIAL: CONSTRUCTION SHEATHING PLYWOOD IN ACCORDANCE WITH CAN/CSA 0151, AND OSB IN ACCORDANCE WITH CAN/CSA 0325. REFER TO NATIONAL BUILDING CODE OF CANADA, PART 9.

ROOFS: 16mm THICK 5-PLY T&G PLYWOOD (OR 15.5mm THICK OSB 2R40 WITH "H" CLIPS), U.N.O. ORIENTED AT 0° (EXTERIOR TYPE) WITH STAGGERED PATTERN. NAIL SHEATHING AS PER NATIONAL BUILDING CODE, PART 9, REQUIREMENTS.

WALLS: U.N.O., 12.7mm PLYWOOD SHEATHING OR 12.5mm OSB SHEATHING (2R32) ON ONE SIDE (U.N.O.) FOR ALL BEARING WALLS (EXTERIOR TYPE FOR EXTERIOR WALLS) WITH LONG DIMENSION LAID HORIZONTALLY AND ENDS STAGGERED 1220mm c/c. NAILED AS PER NATIONAL BUILDING CODE, PART 9, REQUIREMENTS.

FLOOR: 18.25mm (3/4") STABLEDGE T&G OSB SUBFLOOR SCREWED & GLUED WITH LONG DIMENSION LAID PERPENDICULAR TO JOIST ENDS STAGGERED @ 1220mm c/c. SCREW AS PER NATIONAL BUILDING CODE PART 9 REQUIREMENTS.

### WALL FRAMING

- WL1 38x140mm SPF No.2 OR BETTER STUDS SPACED AT 406mm c/c MAX. SILL PLATE TO BE 38x140mm SPF No.2 OR BETTER. TOP PLATE TO BE 2-38x140mm SPF No.2 OR BETTER.
- WL2 38x184mm SPF No.2 OR BETTER STUDS SPACED AT 406mm c/c MAX. c/w BLOCKING @ PANEL EDGES. SILL PLATE TO BE 38x184mm SPF No.2 OR BETTER. TOP PLATE TO BE 2-38x184mm SPF No.2 OR BETTER.
- WL3 38x89mm SPF No.2 OR BETTER STUDS SPACED AT 406mm c/c MAX. SILL PLATE TO BE 38x89mm SPF No.2 OR BETTER. TOP PLATE TO BE 2-38x89mm SPF No.2 OR BETTER.

NOTE: STUD SPACING ARE MINIMUM STRUCTURAL REQUIREMENTS. CONTRACTOR TO MODIFY (CLOSER) AS REQUIRED TO SUIT ARCHITECTURAL FINISH.

### DESIGN LOADS

(LOADS ARE NOT FACTORED)

ROOF DL: (EXCLUDING ROOF TRUSSES) 1.25kPa.  
 TOP CHORD = 0.3kPa, BOTTOM CHORD = 0.95kPa.  
 SOFFIT EXTENSIONS = 0.5kPa, EXCLUDING STRUCTURAL MEMBERS.)

ROOF SL: 3.48kPa, UNO.  
 SNOW DRIFTS IN VALLEYS AND UNBALANCED LOADING SHALL BE CONSIDERED BY THE TRUSS DESIGNER.

FLOOR DL: 2.3kPa, UNO. (INCLUDING 1.0kPa FOR PARTITION WALLS, AND EXCLUDING FLOOR JOISTS SELF WEIGHT).

FLOOR LL: 4.8kPa, UNO.

ROOF LL: 1.0kPa, UNO.

ATTIC LL: 0.5kPa, UNO.

ALL: L/360

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125-21

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TCFSA Administration  
**Building Addition**

Tobique First Nation, NB

- STRUCTURAL -  
**PLANS AND DETAILS**

SCALE: AS SHOWN  
 October, 2021

A2135 **S1**

PLOT DATE: 2022-03-04