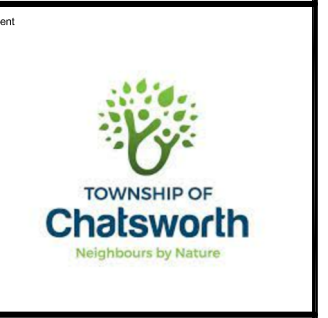
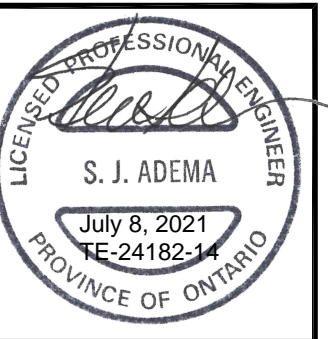


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Date	Issue
JUNE 25 2021	ISSUED FOR CONSTRUCTION

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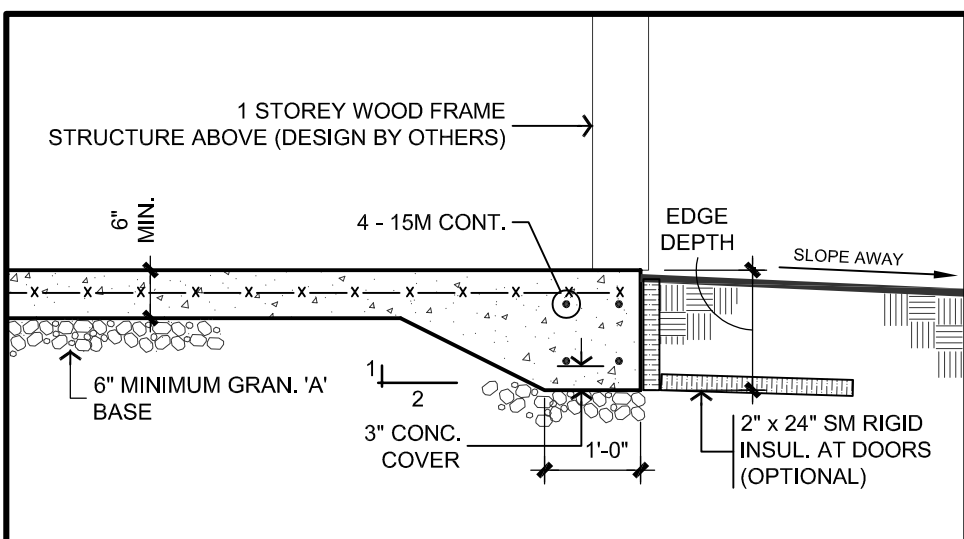
Client  
**TYPICAL FLOATING SLAB**  
 ONTARIO

Drawing  
**FOUNDATION PLAN & NOTES**

Scale	1/8" = 1'-0"	Dwg. #	<b>S1</b>
Date	JUNE 2021		
Drawn By	JDH		
Project No.	TE-24182-14		

**DIRECTIONS FOR USE:**

- THIS FLOATING SLAB FOUNDATION DESIGN IS FOR A 1 STOREY WOOD STUD FRAMED STRUCTURE WITH NO MASONRY OR OTHER FINISHES SUSCEPTIBLE TO CRACKING.
- DETERMINE THE LARGER BUILDING DIMENSION, LENGTH OR WIDTH AND SELECT EDGE DEPTH FROM TABLE 1. NOTE: SLAB DESIGN IS NOT AFFECTED BY SPAN OF ROOF FRAMING ABOVE.
- TO INCLUDE ATTIC TRUSSES ADD THE WIDTH OF THE ROOM TO BOTH THE LENGTH AND WIDTH.
- TO ADD UP TO 48" OF MASONRY VENEER AROUND THE PERIMETER, INCREASE EDGE DEPTH BY 2", INSTALL VERTICAL CONTROL JOINTS IN VENEER AT MAX. 8'-0" O.C.
- BUILDINGS THAT DO NOT MEET THE ABOVE CRITERIA SHALL NOT USE THIS DETAIL.



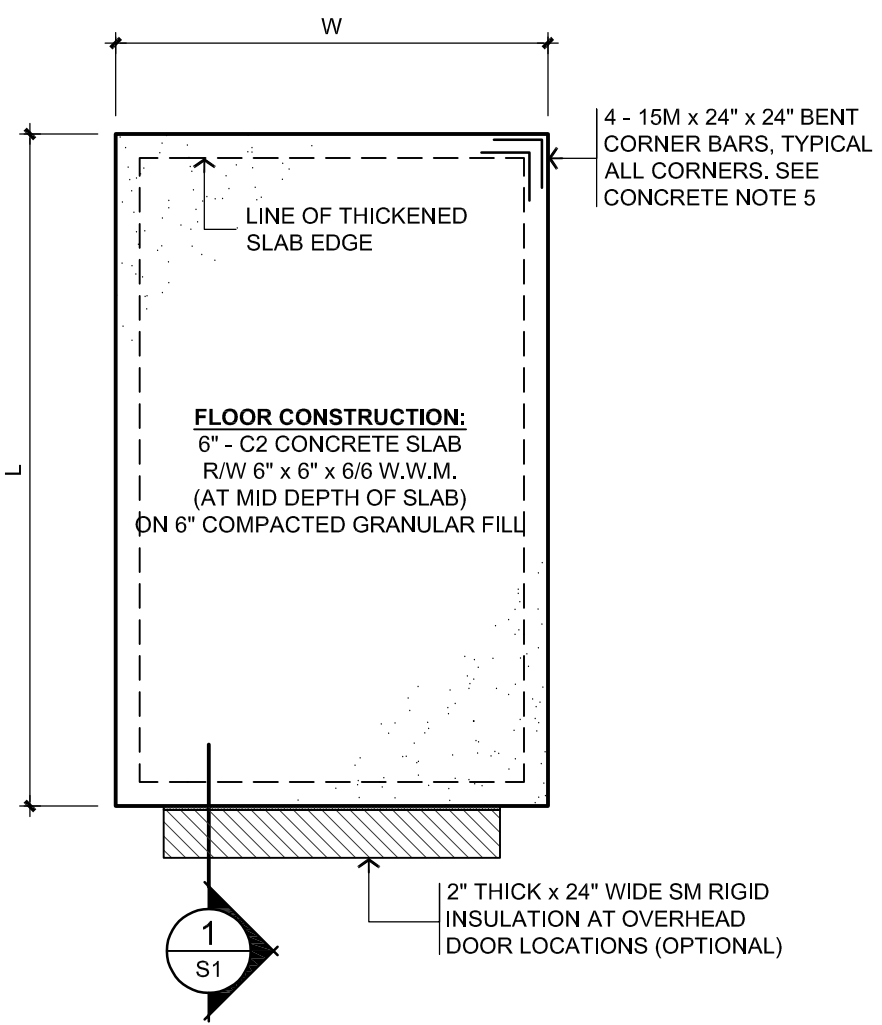
**1**  
**EDGE DETAIL AT DOOR OPENING**  
 SCALE: 1/2" = 1'-0"

**EXAMPLE 1:**  
 18'-0" x 36'-0" WITH 4'-0" BRICK VENEER.

FROM TABLE 1, FOR 36'-0" → SELECT 17" EDGE THICKNESS  
 FOR BRICK VENEER ADD 2" TO EDGE THICKNESS  
 ∴ INSTALL SLAB WITH A 19" EDGE THICKNESS

**EXAMPLE 2:**  
 24'-0" x 30'-0" WITH ATTIC TRUSS (12'-0" WIDE ROOM IN TRUSS SPACE)

EFFECTIVE SLAB DIMENSIONS (24'-0" + 12'-0") = 36'-0"  
 AND (30'-0" + 12'-0") = 42'-0"  
 EFFECTIVE SLAB DIMENSION IS OFF THE CHART ∴ USE OF THIS PLAN IS NOT PERMITTED.



**FOUNDATION PLAN**  
 SCALE: 1/8" = 1'-0"

**TABLE 1**

LARGEST DIMENSION	EDGE DEPTH
MAX. 20'-0"	13"
MAX. 24'-0"	14"
MAX. 28'-0"	15"
MAX. 32'-0"	16"
MAX. 36'-0"	17"
MAX. 40'-0"	18"

**NOTE:**  
 FOR FOUNDATIONS WITH GREATER THAN 40'-0" DIMENSIONS, FOUNDATION DESIGN MUST BE COMPLETED BY A PROFESSIONAL ENGINEER

**GENERAL NOTES:**

- THIS DESIGN HAS BEEN COMPLETED TO THE 2012 ONTARIO BUILDING CODE.
- CONTACT TACOMA ENGINEERS FOR CONSTRUCTION REVIEWS AS REQUIRED BY THE LOCAL MUNICIPALITY.
- THIS FOUNDATION DESIGN SHALL NOT BE USED IN GEOGRAPHIC AREAS SUBJECT TO TERMITE INFESTATION.

**SITE & SOILS:**

- PREPARE THE AREA FOR PROPOSED STRUCTURE BY REMOVING ALL TOPSOIL AND ORGANIC MATERIAL FROM THE AREA OF THE BUILDING.
- SLOPE FINAL GRADE AWAY FROM THE BUILDING.
- BEAR SLAB ON GRANULAR FILL (6" MINIMUM) TO 98% STANDARD PROCTOR DENSITY OR 3/4" CRUSHED STONE ON SOUND ORIGINAL (NATIVE) SUBGRADE.
- SUBGRADE SHALL BE SUITABLE FOR 75 kPa (1500 psf) SAFE BEARING.

**CONCRETE:**

- CONCRETE WORK SHALL CONFORM TO CAN/CSA-A23.1,2,3 FOR MATERIALS AND WORKMANSHIP.
 

CLASS OF CONCRETE	STRENGTH	W/C RATIO	AIR ENTRAINMENT
C2	32 MPa	0.45	5 - 8%
- ALL CONCRETE SHALL BE KEPT MOIST DURING THE FIRST THREE DAYS OF CURING. DO NOT ADD WATER TO CONCRETE ON SITE.
- ALL REBAR SHALL BE DEFORMED BARS WITH A MINIMUM YIELD STRENGTH OF 400 MPa. ALL LAP LENGTHS AS FOLLOWS:
 

A:	10M BARS	450mm (18")
B:	15M BARS	600mm (24")
- PROVIDE A MINIMUM 9" LAP FOR WELDED WIRE MESH.
- PROVIDE CONTINUOUS REINFORCING AROUND CORNERS WITH 15Mx24"x24" BENT DOWELS (FOUR DOWELS PER CORNER).
- DO NOT SAWCUT SLAB.

**INSULATION:**

- ALL INSULATION SHALL BE EXTRUDED POLYSTYRENE FOAM (XPS) TYPE IV, V, VI OR VII WITH A MINIMUM NOMINAL R-VALUE OF R5 / INCH.