



BUILDING PERMIT APPLICATION

City of Mountain Iron

8586 Enterprise Drive South, Mountain Iron, MN 55768
(218) 748-7570



(please print or type)

OWNER _____ PROPERTY ADDRESS _____

LEGAL DESCRIPTION _____ ZONING DISTRICT _____

MAILING ADDRESS (if different) _____ PHONE _____

CONTRACTOR NAME _____ LICENSE NUMBER _____

CONTRACTOR ADDRESS _____ PHONE _____

PROJECT DESCRIPTION (Describe the proposed construction and include building dimensions for new construction/additions)

CLASSIFICATION OF USE

RESIDENTIAL #DWELLING UNITS MANUFACTURED HOME COMMERCIAL GARAGE

INDUSTRIAL WAREHOUSE STORAGE OTHER(specify) _____

TYPE OF IMPROVEMENT

NEW DEMOLITION ADDITION ALTERATION REPAIR

(REQUIRED)

BASE COST.....\$ _____

To be installed but not included in above cost

a. Electrical.....\$ _____

b. Plumbing.....\$ _____

c. A/C & Heating.....\$ _____

d. Other.....\$ _____

TOTAL VALUATION \$ _____

(Total cost Materials & Labor)

ROOF FOUNDATION ONLY INSTALLATION
(IE WINDOWS, SIDING)

TYPE OF FRAME

OTHER (SPECIFY) _____ STRUCTURAL STEEL WOOD

MASONRY (WALL BEARING) REINFORCED CONCRETE

SEWER DISPOSAL & WATER SUPPLY

Approval prior to building permit approval for new construction/hook ups

SEWER

Public (City Engineer) Approved by: _____

Private - County Health Dept _____

Septic Permit# _____

WATER

Public _____

Private _____

Lot Size (sq. ft. or no. acres) _____

Number of stories _____

Total size of structure (sq. ft.) _____

Size of new construction (sq. ft) _____

NOTICE FOR THE APPLICANT:

APPLICANTS MUST PROVIDE COMPLETE CONSTRUCTION PLANS FOR ALL BUILDING PERMIT APPLICATIONS. APPLICANTS MUST PROVIDE SITE PLANT TO SCALE - WITH DIMENSIONS, SETBACKS OF ALL EXISTING AND PROPOSED STRUCTURES ON LOT. INCOMPLETE APPLICATIONS MAY BE REJECTED.

APPROVED BUILDING/ZONING PERMITS BECOME NULL AND VOID IF WORK OR CONSTRUCTION AUTHORIZED IS NOT COMMENCED WITHIN 180 DAYS, OR IF CONSTRUCTION OR WORK IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AT ANY TIME AFTER WORK IS COMMENCED.

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO REGULATE CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.

SIGNATURE OF APPLICANT: _____

DATE: _____

APPLICABLE FEES - OFFICE USE ONLY

BUILDING PERMIT \$ _____

PLAN REVIEW \$ _____

DEMOLITION PERMIT \$ _____

STATE SURCHARGE \$ _____

PAST UTILITY/ MISC. FEE \$ _____

TOTAL \$ _____

DATE PAID: _____

RECEIPT # _____

DATE PAID: _____

PARCEL NUMBER _____

BUILDING PERMIT# _____

EXAMPLE

DESIGN, MATERIALS & METHODS OF CONSTRUCTION VARY CONSIDERABLY WITH EACH PROJECT, AS ALLOWED BY THE MINNESOTA STATE BUILDING CODE. EACH WALL CONDITION MUST BE SHOWN, DEMONSTRATING SPECIFIC ASPECTS OF EACH INDIVIDUAL PROJECT.

ASPHALT SHINGLES, R905.2.
 16# ROOF FELT, R905.2.7
 1" CLR AIR CHUTE, BTW EA TRUSS, R806.3
 5/8" PLYWOOD ROOF SHEATHING, R803, R905.2.1
 R-49 INSULATION,

ICE & WATER SHIELD, EXTEND 24" INSIDE EXT WALL, R905.2.7.1

DRIP EDGE
 FACIA BOARD

VENTED SOFFIT ATTACHED TO LOOKOUTS
 HURRICANE CLIPS, PER TRUSS MANUFACTURER, R802.11.

2'-0" PRE-ENGINEERED TRUSS, w/12" ENERGY HEEL, 42 PSF LIVE LOAD
 GYPSUM BOARD, TYP.

EXTEND ICE & WATER SHIELD
 6MIL POLY VAPOR BARRIER
 2"X6" WOOD STUDS, #2 BTR, @ 16" O.C.
 R-21 INSULATION
 SHEATHING, CONT TO BOTTOM CORD OF TRUSS

AIR BARRIER
 SIDING, R703

CLOSED CELL SPRAY FOAM @ RIM JOIST, R-10, MIN.

3/4" T&G PLYWOOD, R503

RIM BLOCKING
 2X6 SILL PLATE, w/ 1/2"X10" ANCHOR BOLT w/ 7" MIN EMBED, 48" O.C., TABLE R404.1(2)

TAPERED ICF TOP BLOCK
 PROTECT INSUL TO 6" BELOW GRADE

NOTE: FOOTINGS ALL LOCATIONS 60" MINIMUM BELOW GRADE.

SLOPE @ 6" PER 10" MIN

NOTE: FOUNDATION WALL STEPS TO A CANTILEVERED FOUNDATION WALL, SEE ADDITIONAL WALL SECTION.

NOTE: ALL REINFORCING STEEL 60 KSI MIN (GRADE 60).

NOTE: FOOTING & FOUNDATION WALL CONCRETE 3000 PSI MIN. BASEMENT SLAB 2500 PSI MIN, R402.2.

BACKFILL, TABLE R405.1, OM CLASS, GRAVEL SAND SILT MIX #4 @ 18" O.C., VERT PER TABLE R404.4(2)
 #4 @ 36" O.C. HORIZONTAL, R404.4.6.2

FOUNDATION WATERPROOFING PER R406.2

3" ICF FORM, PER R404.4.6.2
 #4 DWLS @ 18" O.C.

MANUFACTURED TRUSSES, SEE TRUSS SHOPS.

GYPSUM BOARD, TYP.

ALWAYS SHOW SIZE, SPACING, SPECIFIC MATERIALS & ALL OTHER COMPONENTS OF YOUR PROJECT.

AS A GENERAL RULE, IF YOU INTEND TO BUILD IT, SHOW IT ON THE PLANS! THIS INFORMATION WILL BE REVIEWED FOR BUILDING CODE COMPLIANCE, AND YOUR PROJECT WILL BE OFF TO A GOOD START.

NOTE: SOIL BEARING IS ASSUMED TO BE 1500 PSF, UNLESS CERTIFIED SOIL TEST IS PROVIDED.

(2)#4 CONT.

4" PERFORATED DRAINS SET IN GRAVEL W/ SOIL SEG FABRIC WRAP.

SOCKED 4" DRAIN W/ WEEPS TO SUMP
 20"X8" FOOTING CONT. SET over UNDISTURBED EARTH

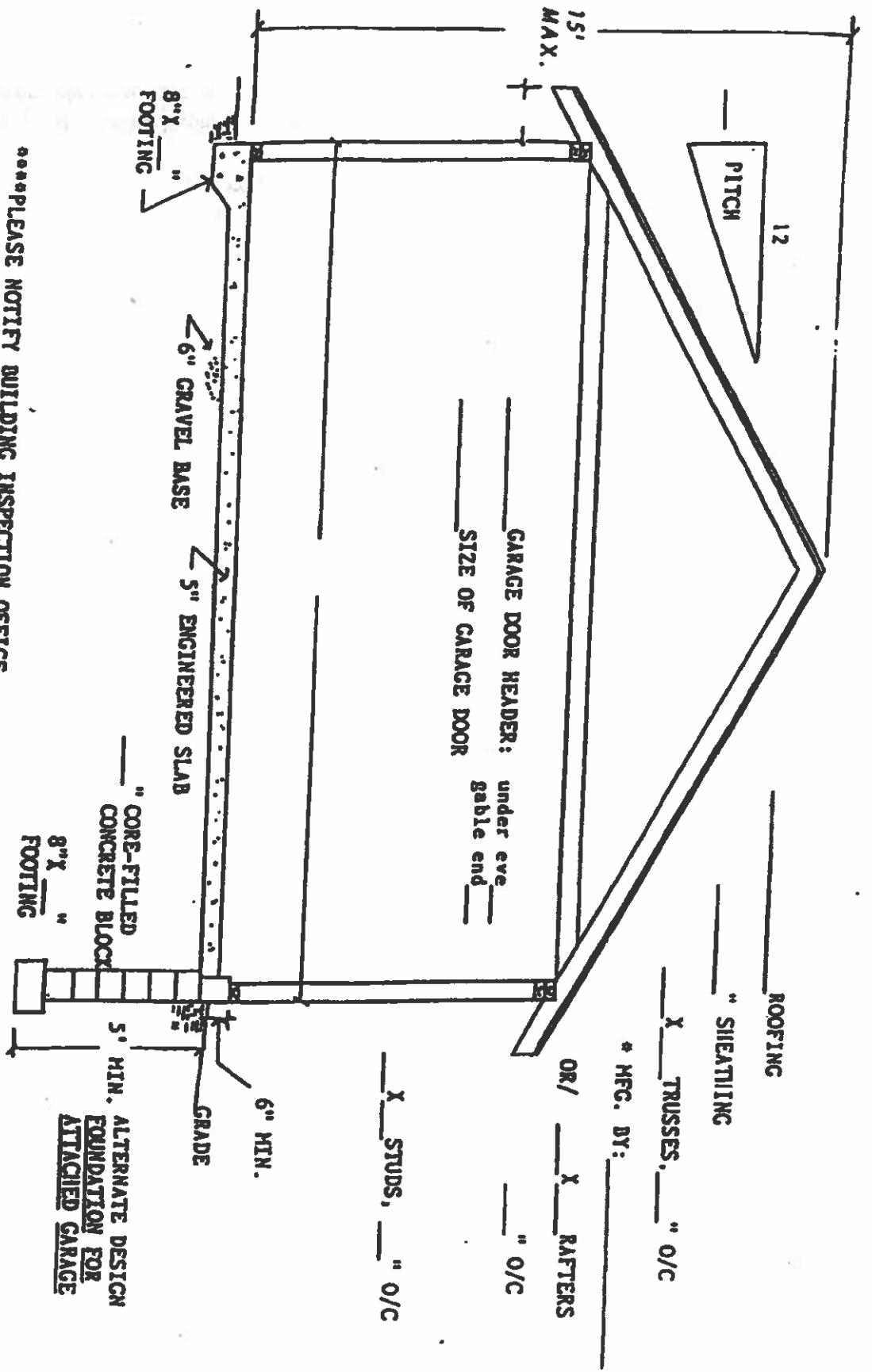
NOTE: RADON MITIGATION SYSTEM TIED INTO FLOOR DRAINS AND SUMP. SEE FLOOR PLAN FOR ADD'L RADON MITIGATION INFORMATION.

WALL SECTION DESIGNED

9'-0" CEILING HEIGHT

7'-0" BACKFILL HEIGHT
 8'-0" CEILING HEIGHT
 9'-0" FOUNDATION WALL HT

EXAMPLE WALL SECTION



****PLEASE NOTIFY BUILDING INSPECTION OFFICE
24 HOURS BEFORE POURING FLOOR!!

SIGNATURE

****PLEASE NOTE: A SEPARATE ELECTRICAL PERMIT IS REQUIRED FOR WIRING

INSTRUCTIONS:

- A) Fill in the blanks to explain how structure will be constructed.
- B) Note if prebuilt trusses are propo.

Permit # _____

SITE INSPECTION RECORD

For All Inspections Call (218) 969-0165 At Least 24 Hours In Advance

Permit Type: _____

Date Issued: _____

Property Owner: _____

Project Address: _____

General Contractor: _____

License #: _____

(X) in the left column indicates which inspections are required.

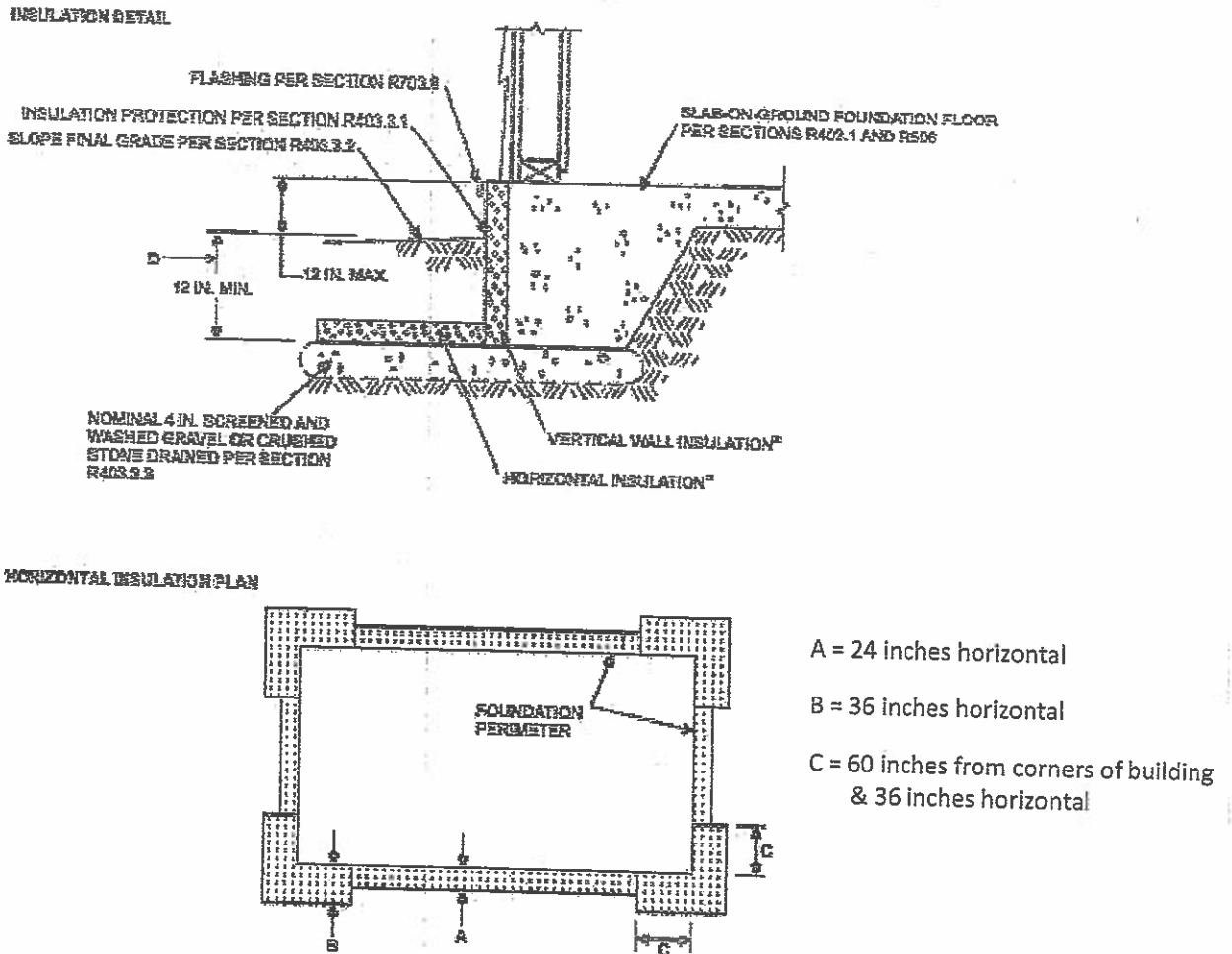
X	INSPECTION	INSPECTOR	DATE	COMMENTS
	Footing			
Do not place any concrete until Footing Inspection is Signed Off.				
	Foundation			
Do not Backfill until Foundation Inspection is Signed Off.				
	R-Plumbing (Above Grade)			
	R-Plumbing (Below Grade)			
	Rough Mechanical			
	Rough Electrical			
	Gas Piping Test			
	Fireplace Rough In			
	Framing			
Do not Insulate until ALL of the above is Signed Off.				
	Energy/Insulation			
Do not Sheetrock or Cover until Energy/Insulation is Signed Off.				
	Final Plumbing			
	Final Electrical			
	Final Mechanical			
	Sewer/Septic			
	Final			

A CERTIFICATE OF OCCUPANCY IS REQUIRED BEFORE BUILDING IS OCCUPIED

R403.3 Frost-Protected Shallow Foundations

For buildings where the monthly mean temperature of the building is maintained at not less than 64°F (18°C), footings are not required to extend below the frost line where protected from frost by insulation in accordance with Figure R403.3(1) and Table R403.3(1). Foundations protected from frost in accordance with Figure R403.3(1) and Table R403.3(1) shall not be used for unheated spaces such as porches, utility rooms, garages and carports, and shall not be attached to *basements* or *crawl spaces* that are not maintained at a minimum monthly mean temperature of 64°F (18°C).

Materials used below *grade* for the purpose of insulating footings against frost shall be *labeled* as complying with ASTM C578.



For SI: 1 Inch = 25.4 mm.

- a. See Table R403.3(1) for required dimensions and R-values for vertical and horizontal insulation and minimum footing depth.

FIGURE R403.3(1)

INSULATION PLACEMENT FOR FROST-PROTECTED FOOTINGS IN HEATED BUILDINGS

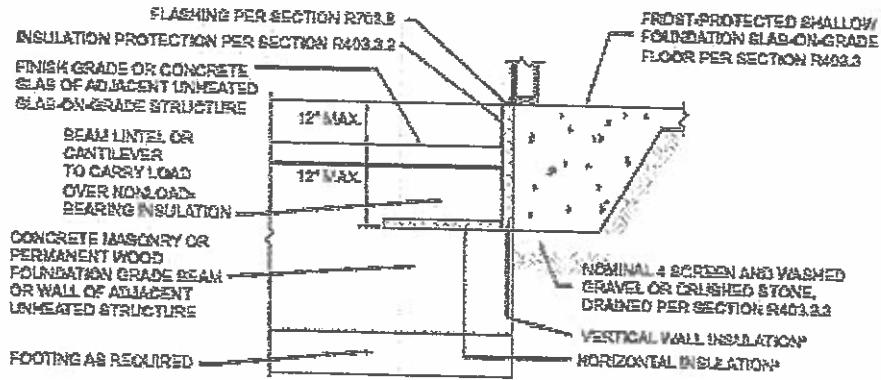
TABLE R403.3(1)
 MINIMUM FOOTING DEPTH AND INSULATION REQUIREMENTS FOR FROST-PROTECTED FOOTINGS IN HEATED BUILDINGS^a

AIR FREEZING INDEX (°F-days) ^b	MINIMUM FOOTING DEPTH, D (Inches)	VERTICAL INSULATION R-VALUE ^{c, d}	HORIZONTAL INSULATION R-VALUE ^{c, e}		HORIZONTAL INSULATION DIMENSIONS PER FIGURE R403.3(1) (Inches)		
			Along walls	At corners	A	B	C
1,500 or less	12	4.5	Not required	Not required	Not required	Not required	Not required
2,000	14	5.6	Not required	Not required	Not required	Not required	Not required
2,500	16	6.7	1.7	4.9	12	24	40
3,000	16	7.8	6.5	8.6	12	24	40
3,500	16	9.0	6.0	11.2	24	30	60
4,000	16	10.1	10.5	13.1	24	36	80

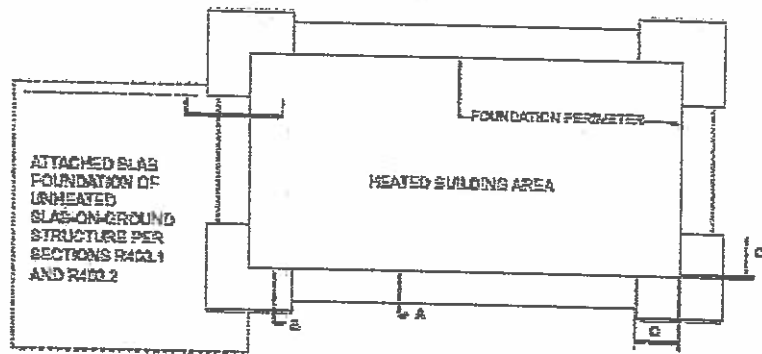
For SI: 1 inch = 25.4 mm, °C = [(°F) - 32]/1.8.

- a. Insulation requirements are for protection against frost damage in heated buildings. Greater values could be required to meet energy conservation standards.
- b. See Figure R403.3(2) or Table R403.3(2) for Air Freezing Index values.
- c. Insulation materials shall provide the stated minimum *R*-values under long-term exposure to moist, below-ground conditions in freezing climates. The following *R*-values shall be used to determine insulation thicknesses required for this application: Type II expanded polystyrene (EPS)-3.2 *R* per inch for vertical insulation and 2.6 *R* per inch for horizontal insulation; Type IX expanded polystyrene (EPS)-3.4 *R* per inch for vertical insulation and 2.8 *R* per inch for horizontal insulation; Types IV, V, VI, VII, and X extruded polystyrene (XPS)-4.5 *R* per inch for vertical insulation and 4.0 *R* per inch for horizontal insulation.
- d. Vertical insulation shall be expanded polystyrene insulation or extruded polystyrene insulation.
- e. Horizontal insulation shall be expanded polystyrene insulation or extruded polystyrene insulation.

INSULATION DETAIL



HORIZONTAL INSULATION PLAN



For SI: 1 inch = 25.4 mm.

a. See Table R403.3(1) for required dimensions and R-values for vertical and horizontal insulation.

FIGURE R403.3(3)

INSULATION PLACEMENT FOR FROST-PROTECTED FOOTINGS ADJACENT TO UNHEATED SLAB-ON-GROUND STRUCTURE

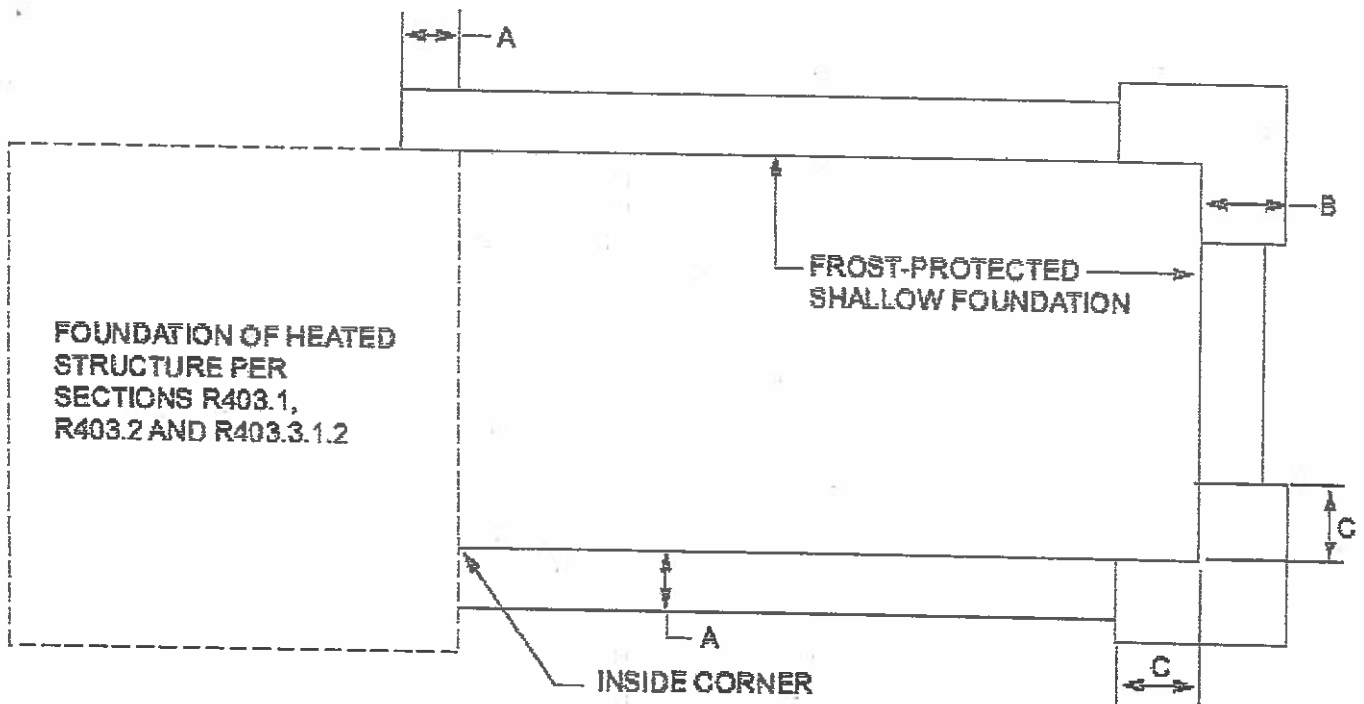


FIGURE R403.3(4)

INSULATION PLACEMENT FOR FROST-PROTECTED FOOTINGS ADJACENT TO HEATED STRUCTURE

R403.3.1 Foundations Adjoining Frost-Protected Shallow Foundations

Foundations that adjoin frost-protected shallow foundations shall be protected from frost in accordance with Section R403.1.4.

R403.3.1.1 Attachment to Unheated Slab-on-Ground Structure

Vertical wall insulation and horizontal insulation of frost-protected shallow foundations that adjoin a slab-on-ground foundation that does not have a monthly mean temperature maintained at not less than 64°F (18°C) shall be in accordance with Figure R403.3(3) and Table R403.3(1). Vertical wall insulation shall extend between the frost-protected shallow foundation and the adjoining slab foundation. Required horizontal insulation shall be continuous under the adjoining slab foundation and through any foundation walls adjoining the frost-protected shallow foundation. Where insulation passes through a foundation wall, it shall be either of a type complying with this section and having bearing capacity equal to or greater than the structural loads imposed by the building, or the building shall be designed and constructed using beams, lintels, cantilevers or other means of transferring building loads such that the structural loads of the building do not bear on the insulation.

R403.3.1.2 Attachment to Heated Structure

Where a frost-protected shallow foundation abuts a structure that has a monthly mean temperature maintained at not less than 64°F (18°C), horizontal insulation and vertical wall insulation shall not be required between the frost-protected shallow foundation and the adjoining structure. Where the frost-protected shallow foundation abuts the heated structure, the horizontal insulation and vertical wall insulation shall extend along the adjoining foundation in accordance with Figure R403.3(4) a distance of not less than Dimension A in Table R403.3(1).

Exception: Where the frost-protected shallow foundation abuts the heated structure to form an inside corner, vertical insulation extending along the adjoining foundation is not required.

R403.3.2 Protection of Horizontal Insulation Below Ground

Horizontal insulation placed less than 12 inches (305 mm) below the ground surface or that portion of horizontal insulation extending outward more than 24 inches (610 mm) from the foundation edge shall be protected against damage by use of a concrete slab or asphalt paving on the ground surface directly above the insulation or by cementitious board, plywood rated for below-ground use, or other approved materials placed below ground, directly above the top surface of the insulation.

R403.3.3 Drainage

Final *grade* shall be sloped in accordance with Section R401.3. In other than Group I Soils, as detailed in Table R405.1, gravel or crushed stone beneath horizontal insulation below ground shall drain to daylight or into an *approved* sewer system.

R403.3.4 Termite Protection

The use of foam plastic in areas of "very heavy" termite infestation probability shall be in accordance with Section R318.4.

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INDICATE NORTH IN CIRCLE

SITE PLAN TO SCALE-SHOW DIMENSIONS OF LOT AND ALL EXISTING AND PROPOSED STRUCTURES, DISTANCES FROM FRONT, SIDE AND REAR LOT LINE SETBACKS TO ALL EXISTING AND PROPOSED STRUCTURES. SHOW ALLEY AND STREET NAMES ABUTTING LOT AND EASEMENTS.

I/We certify that the proposed construction will conform to the dimensions and uses shown and that no changes will be made without first obtaining approval.

Owners Signature _____ Date _____