



TABLE R404.1.1(5)

MAXIMUM WALL HEIGHT (feet)	MAXIMUM UNBALANCED BACKFILL HEIGHT (feet)	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING
10	4	PC
	5	PC
	6	PC
	7	PC ^a
	8	#6 at 45" O.C. ^b
	10	#7 at 47" O.C.

For S_u 1.1 in. x 25.4 mm) feet (304.8 mm) 1 pound per square foot = 0.0479 kPa; 1 pound per square foot = 0.037 Pa/m²
 a. Soil classes in accordance with the United Soil Classification System. Refer to Table R402.1.
 b. Unbalanced backfill height is the difference in height of the exterior and interior finish ground levels. Where there is an interior concrete slab, the unbalanced backfill height shall be measured from the exterior finish ground level to the top of the interior concrete slab.
 c. The size and spacing of vertical reinforcement shown in the table is based on the use of rebar with a minimum yield strength of 60,000 psi. Vertical reinforcement with a minimum yield strength of 40,000 psi or 50,000 psi is permitted, provided the same size bar is used and the spacing shown in the table is reduced by multiplying the spacing by 0.87 or 0.83, respectively.
 d. Vertical reinforcement when required shall be placed nearest the inside face of the wall a distance from the outside face (see detail) of the wall. The distance is equal to the wall thickness, plus 1.5 inches plus one-half the bar diameter (d + 1.5 + 0.5d). The reinforcement shall be placed within a tolerance of ± 3/8 of wall are permitted.
 e. In lieu of the reinforcement shown, smaller reinforcement bar sizes and closer spacing resulting in an equivalent cross-sectional area of reinforcement per linear foot of wall are permitted.
 f. Concrete cover for reinforcement measured from the inside face of the wall shall not be less than 3/4 inch. Concrete cover for reinforcement measured from the outside face of the wall shall not be less than 2 inches for No. 5 bars and smaller and not be less than 2 inches for larger bars.
 g. The minimum thickness is permitted to be reduced 2 inches provided the minimum specified compressive strength of concrete is 4,000 psi.
 h. A plain concrete wall with a minimum strength of 11.5 inches is permitted, provided minimum specified compressive strength of concrete is 3,500 psi.

2006 INTERNATIONAL RESIDENTIAL CODE

BASEMENT & FOUNDATION NOTES:

- 1 3/12 CONCRETE SLAB THROUGH OVER 6 MIL. POLYETHYLENE OVER 4" CRUSHED ROCK OVER COMPACTED FILL (SLOPE FLOOR TO DRAIN)
- 2 4" CONCRETE SLAB WITH 6" X 6" 810 G WELDED WIRE FABRIC OVER 4" CRUSHED ROCK OVER COMPACTED FILL
- 3 18 REINFORCING RODS 48" X 48" AT 6" O.C. BENT INTO PORCH SLAB (TYPICAL ACROSS PORCH)
- 4 2-#4 ROUND REINFORCING RODS 24" X 24" @ 12" O.C. PROPERLY LAPPED & TIED (TYPICAL AT ALL INTERSECTING CORNERS)
- 5 2" X 6" PLATE LINE
- 6 BEAM POCKET (GROUT WITH CEMENT) 4" MIN. BEARING
- 7 WOOD STAIRS WITH WOOD HANDRAIL (MIN. 34" TO 38" HIGH)
- 8 CARPET RUNNER
- 9 PROJECT FIREPLACE FOOTING 6" ON ALL SIDES AND 12" DEEP
- 10 FLOOR COVERING TO BE SELECTED BY OWNER
- 11 82 GALLON ELECTRIC WATER HEATER
- 12 FLOOR DRAIN
- 13 GEO-THERMO FORCED AIR ELECTRIC FURNACE
- 14 DISPOSAL
- 15 36" ELECTRIC RANGE TOP WITH HOOD ABOVE (VENT TO EXTERIOR) MIN. 100 C.F.M.
- 16 24" X 2" STYROFOAM RIGID PERIMETER INSULATION AT ALL EXPOSED FOUNDATIONS BELOW GRADE
- 17 2" X 4" FURRING WITH 3 1/2" (R-13) BATT INSULATION WITH 1/2" DRYWALL OVER
- 18 PRESS FORMED CONCRETE RETAINING WALL (SEE DETAIL)
- 19 CONCRETE RETAINING WALL WITH RECESSED BRICK AND BRICK CAP (SEE DETAIL)
- 20 1/4" PLATE MIRROR
- 21 34" X 60" 1-PIECE FIBERGLASS SHOWER
- 22 FURR AND DRYWALL OVER STEEL COLUMN
- 23 60R0 PELLA FRENCH DOOR WITH INSULATED GLASS-LITE TEMPERED LOW E⁺ WITH ARGON GAS
- 24 24" WIDE RAISED COUNTER TOP ON A 40 1/2" HIGH WALL (CANTILEVER BOTH SIDES OF TOP)
- 25 42" WIDE MASONRY FIREPLACE WITH BRICK FACE TO CEILING COLONIAL MANTLE, AND 12" RAISED BRICK HEARTH
- 26 OUTLINE OF BALCONY
- 27 CABINET DESIGN & LAYOUT BY CABINET COMPANY
- 28 ELEVATOR SPECIFICATIONS TO BE SUPPLIED BY MANUFACTURER (SEE DETAIL SHEET 9)
- 29 3'-0" WIDE ELEVATOR DOOR BY OTHERS
- 30 8" CONCRETE SLAB SLOPE TO 8" WITH #5 RODS AT 6" O.C. EACH WAY
- 31 3'-0" X 6'-8" DOOR SUPPLIED BY OWNER
- 32 4 1/2" TO 4" CONCRETE SLAB WITH #5 RODS @ 6" EACH WAY
- 33 SUMP-PIT MIN. 18" ROUND X 24" DEEP WITH FITTED COVER WITH SINGLE 120V. ELECTRIC RECEPTACLE RATED FOR SUMP PUMP
- 34 INSULATED CEILING WITH 8" R-25 BATT INSULATION
- 35 OAK HANDRAIL (MIN. 38" HIGH WITH SPINDLES 4" MAX. SPACE BETWEEN)

NOTE: CONSTRUCTION SHALL CONFORM TO THE FOLLOWING CODES:
 2006 IRC BUILDING CODE WITH 2007 SUPPLEMENT
 2005 NATIONAL ELECTRICAL CODE, N.E.C.
 2006 INTERNATIONAL MECHANICAL CODE, I.M.C.
 2006 INTERNATIONAL PLUMBING CODES, I.P.C.
 2006 FIELD GAS CODE

NOTE: CEILINGS SUSPENDED BELOW WOOD JOISTS OR ATTACHED DIRECTLY TO WOOD FLOOR TRUSSES SHALL BE DRAFTSTOPPED AT 1000 SQ. FT. INTERVALS AND PARALLEL TO MAIN FRAMING MEMBERS.

BASEMENT & FOUNDATION PLAN
 FIN. SQ. FT. 4662
 SCALE 1/4" = 1'-0"

REVISED DATE 9/8/2011

PROPOSED RESIDENCE FOR:
MR. & MRS. ARTHUR OSTMANN
 LOT 76 & 77
 GOVERNOR PLACE
 ST. CHARLES, MO.

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SHEET NO. **1** OF 9
 PLAN NO. **20-3399**
 DATE: 4/25/11