Attached to the supporting wall with corrosion-resistant metal ties.

## I. BUILDING DESIGN THE BUILDING PERMIT AND ONE SET OF APPROYED DRAWINGS MUST BE MADE AVAILABLE AT THE SITE FOR THE REQUIRED INSPECTION.

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Living Rooms	Loads	rios cinc pepui

iv. Decks iii. Attic Storage Area (light storage-no stairs) 20# PSF add 10# dead load

ii. Sleeping Areas & Attic Storage w/stairs

40# PSF add 10# dead load 30# PSF add 10# dead load

i. 10# PSF bottom chord dead load

## ii. 40# PSF ground snow load

## d. Wind Speed Design

# Minimum depth finished grade to bottom of all footings - 30" or extended to solid bearing,

# b. Size - must be 8" thick and extend a minimum of 4" beyond wall on each side

d. Column footing pad - 24"x 24"x12" single story bearing, 30"x 30"x 15" for a two story bearing. c. Chimney footings - must be 12" thick and extend 6" beyond wall on all sides.

or 36"x 36"x 18" for a three story bearing; when carrying roof load, increase to next column

- Top surface to be level, bottom surface not greater than 1 in 10 slope footing pad size; or have designed to carry the required load.
- Step footings top run shall overlap preceding run and tie together.
- Monolithic Pour footers, wall, and slab poured at same time can be used with minimum of
- 12" wide 30" deep and a 3 1/2" slab.

## 3. FOUNDATION WALLS

- Top course of block shall be a solid unit or filled solid.
- Top of wall at least 6" above grade.
- Wall thickness according to depth of backfill. Maximum backfill for 8" hollow block 4', for 10" amount of backfill allowed or ask for an engineer's report. block 5', for 12" block 6'. The Code Official, when soil conditions warrant, may decrease the
- Plate anchors approved straps shall be spaced and installed per manufacturer's instruction. 1/2" bolts at maximum 6° on center, 7" into masonry and a maximum 12" from corners.
- Where walls of masonry hollow units or masonry bonded hollow walls are decreased in thickness, a course of solid masonry shall be constructed between wall below and the thinner

9. GENERAL MASONRY CONSTRUCTION

SOLID masonry walls of one story dwellings and garages shall not be less than 6" in thickness

when not greater than 9° in height.

Minimum thickness of masonry bearing wall more than one story shall be 8".

g. All header and beam spans shall be installed in accordance with the code or designed in

e. Buildings shall be braced in accordance with the code or engineered design.

form an effective fire barrier between stories and roof.

f. Studs shall be continuous from floor/foundation to ceiling or roof assembly.

d. Firestop all concealed spaces of stud wall partitions to cut off all concealed draft opening and to

4" studs spaced 24" on center, where not needed as a braced wall line.

c. Interior non-bearing partitions may be constructed with 2"x 3" studs spaced 16" on center or 2"x

Interior load-bearing partitions shall be constructed and fire stopped as exterior walls.

f. Masonry stem wall construction shall be installed in accordance with code.

# 4. FOUNDATION DRAINAGE, WATER PROOFING

- a. Drain tile perforated = 3" minimum diameter or approved drainage system with ICC ES report Installed on the exterior perimeter of walls where interior grade is below exterior grade.
- Tile surrounded by 4" gravel and covered with approved filter material. Drain tile shall discharge to a sealed sump pit, which contains a pump or provides gravity flow to
- Areaway drain tied to scaled sump pit or positive gravity flow with 2" pipe with minimum 1/4" 1'0" slope or 3" pipe with minimum 1/8" - 1'0" grade, discharging a minimum of 10' from house and 10' from property line.
- The exterior of masonry walls enclosing basements below grade to be parged with  $^{3}/s$ " portland cement coved at bottom and covered with an approved waterproofing.
- f. Poured concrete walls enclosing areas below grade must have wall ties broken off flush with face and covered with an approved waterproofing.

All supporting post or columns shall be anchored top and bottom.

10.

WALL COVERINGS/FLASHING REQUIREMENTS

Masonry stem walls with a height and length of 48" or less shall be reinforced

f. Beams, girders, or other concentrated loads supported by a wall or column shall have a bearing

of at least 3" in length upon solid masonry not less than 4" in thickness, or upon a metal bearing

or masonry arches designed to support load imposed.

Masonry over openings shall be supported by steel lintels, reinforced concrete or masonry lintels

Hollow piers shall be capped with 4" of solid masonry or concrete or shall have cavities of the

top course filled with concrete grout.

thickness, a course of solid masonry shall be constructed between wall below and the thinner Where walls of masonry hollow units or masonry bonded hollow walls are decreased in

a. Siding, soffit, ceiling or approved type for exterior use.

Water resistive barrier required behind vinyl siding

I" air space or I" mortared space to framing.

Masonry vencer shall not support any vertical load other than the dead load of the vencer

- Adjustable columns screw down anchored in concrete to prevent lateral displacement
- All surfaces of steel columns shall be given a shop coat of rust inhibitive paint.
- d. Column spacing reference Beam Spans.

## 6. PROTECTION AGAINST DECAY

- Pressure treated sill plates less than 8" from finished grade.
- b. All wood in contact with earth or in contact with concrete must be pressure treated.

of water at all windows, doors, chimneys, roofs, masonry, deck and exterior wall finishes.

resistant flashing shall be installed in accordance with code to prevent entry

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iv. Metal wall ties shall be spaced not more than 24" on center horizontally and shall support

- c. Wood beams pocketed in masonry wall 1/2" clearance, sides and end. Beam bottom shall not be in direct contact with masonry.
- d. Wood joists or bottom of wood structural floor when closer than 18" or wood girders when
- closer than 12" to exposed ground must be pressure treated.
- Sills and sleepers on a concrete or masonry slab in direct contact with ground must be pressure treated, unless separated from such slab by an impervious moisture barrier.

vii. Weep holes shall be provided in the outside wythe of masonry walls at a maximum

finished ground level above the foundation wall or slab.

spacing of 33" on center, not less than  $^{3}/_{16}$ " in diameter.

viii. Flashing shall be used around windows and doors, under and at the ends of masonry.

above all projecting, wood trim, where porches, decks, or stairs attached to a wall or floor

vi. Flashing for masonry veneer shall be located beneath the first course of masonry above

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be applied over all exterior walls.

v. Felt paper free from holes and breaks or other approved weather-resistant material shall

not more than 2.67 sq. ft. of wall area.

- Siding, sheathing, wall framing on exterior less than 6" from ground shall be pressure treated wood, or protected in an approved manner.
- Wood furring strips or other wood framing members attached directly to the interior of the applied between the wall and the furring strips or framing members.
- All wood in contact with the ground and supports permanent structures shall be treated lumber exterior masonry walls or concrete wall below grade except where an approved vapor retardant is
- All fasteners for pressure treated wood shall be hot-dipped, zinc-coated, galvanized, stainless steel, silicon bronze, or copper.

12. RAFTERS OR TRUSSES

b. Trusses shall be braced to prevent rotation and provide lateral stability in accordance with

requirements specified in the construction documents or BCSI 1-03 requirements. All

a. Roof and ceiling construction shall be capable of accommodating all loads imposed according to

load requirements and of transmitting the resulting loads to the supporting structural elements.

c. Engineered floor systems shall be installed, braced, and blocked per manufacturer's instructions

Joist hangers or lapped minimum 3" over beam. Joist minimum bearing on: wood - 1 1/2", masonry - 3".

- Access to all under-floor spaces. Opening through the floor shall be a minimum of 18"x 24"; openings through a perimeter wall shall be not less than 16"x 24".
- Ventilation of crawl space 1 sq. ft. of area per 150 sq. ft. One opening within 3' of each corner. Provide drain tile when the grade under the floor is lower than the outside finished grade.
- A radon system shall be installed in accordance with Appendix F of the International Residential Code and labeled with a continuous orange paint line throughout the structure.
- The exterior of masonry walls enclosing basements below grade to be parged with 3/s" portland

Roof sheathing:

ii. OSB Plywood - 1/2" 24" on center no clips; 1/16" 24" on center no clips 3/8" 16" on i. Plywood - 1/2" 24" on center no clips; 3/8" 24" on center use clips or blocking

center use clips or blocking.

struction documents shall be on site.

Poured concrete walls enclosing areas below grade must have wall ties broken off flush with face and covered with an approved waterproofing.

cement coved at bottom and covered with an approved waterproofing.

- joists are centered over the studs with a tolerance of no more than 1". nailed to rack wall or segment of wall by three 8d nails or equivalent, provided the rafters or intersecting walls by at least the equivalent of 3" by 6" by 0.9036" thick galvanized steel that is installed in bearing and exterior walls, provided the plate is adequately tied at joints, corners, and
  - Bearing walls interior and exterior. Double top plate. Exception: Single top plate may be

- 13. VENT, ATTIC ACCESS a. Soffit and ridge vent, or gable vent, net free ventilation 1 sq. ft. for every 150 sq. ft. of the area
- c. Provide ventilation to concealed rafter spaces. b. Provide readily accessible 22"x 30" access panel.
- d. Provide a pull down stair with a 2" wide walkway to the 30"x 30" HVAC service platform when



# Scope of work:

symmetrical geometry. Seeking approval for a variance of setback to 3'-6" to avoid relocating the sewer system and maintain the house'

Partial Site Plan 1"=10'	Sheet S3
Partial Site Plan 1"-20'	Sheet S2
Full Site Plan 1'=100'	Sheet S1
Cover Page	
Sheet Name	Sheet #













