CODES OF RECORD

PLANNING AND CONSTRUCTION OF BUILDINGS SHALL BE REGULATED BY:

REVIEWED

By Shawn Yocom at 1:51 pm, Nov 03, 2021

INTERNATIONAL CODE COUNCIL (ICC)
2018 INTERNATIONAL RESIDENTIAL CODE (IRC)

ISSUANCE OF PERMITS SHALL NOT BE CONSTRUED AS APPROVAL OF VIOLATIONS OF THE CODE OR OTHER LAWS AND SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING CORRECTION OF ERRORS IN PLANS, CONSTRUCTION, OR OTHER VIOLATIONS.

FOR ADDITIONAL INFORMATION VISIT THE

KNOX COUNTY CODE ADMINISTRATION WEBSITE:

https://knoxcounty.org/codes/constructionhandouts

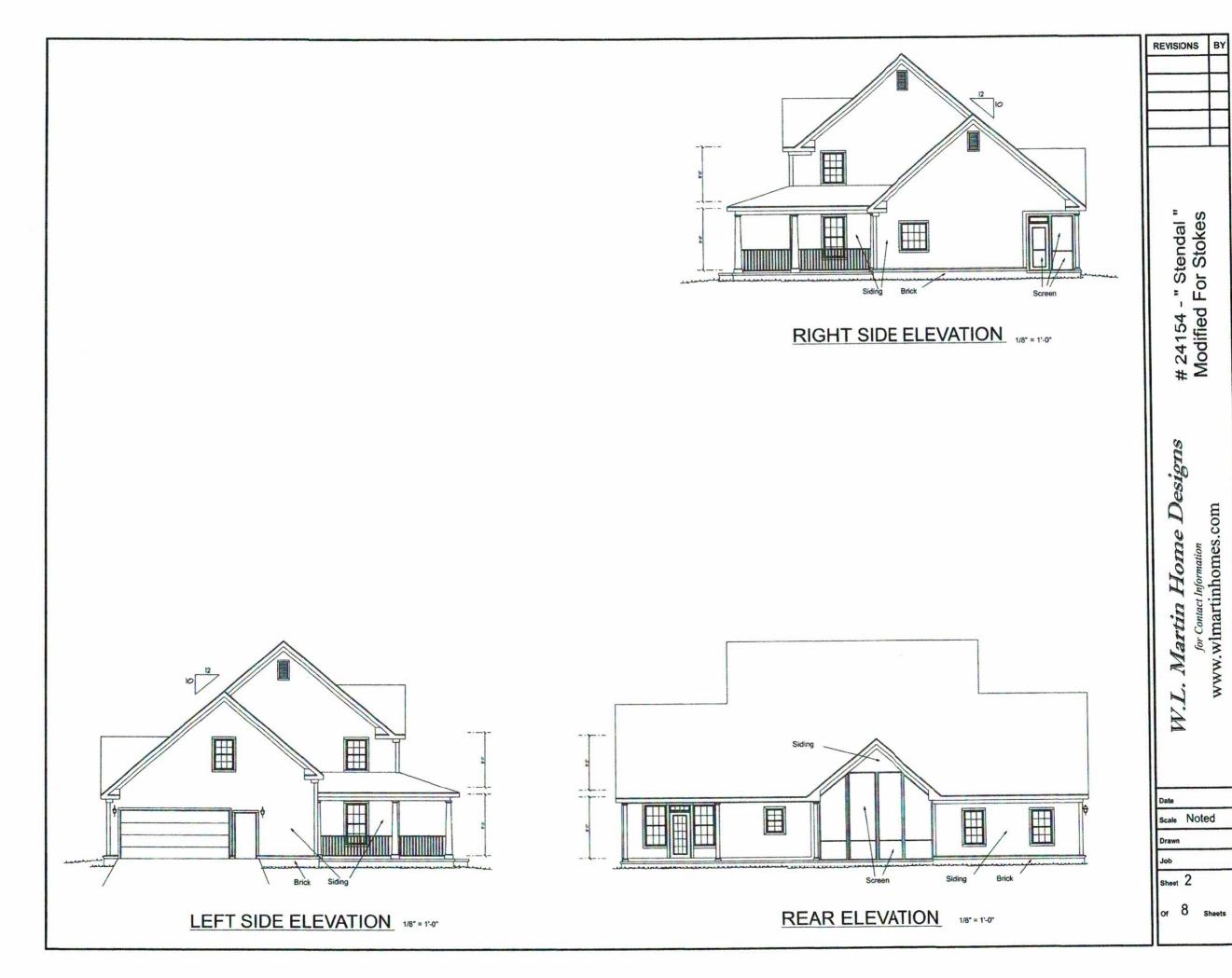
ELECTRICAL PERMITS SHALL BE OBTAINED FROM THE STATE OF TN ELECTRICAL INSPECTOR AT THE LOCAL UTILITY:

KUB 865-558-2504LCUB 865-988-0720CUB 865-457-9232

PRE-ENGINEERED COMPONENTS (R502.1.4; R502.8; AND502.11.1)

- INSTALLED ACCORDING TO MFG. INSTRUCTIONS.
- <u>NOT</u> DRILLED, NOTCHED, CUT, OR MODIFIED IN DESIGN OR ARRANGEMENT WITHOUT WRITTEN APPROVAL OF DESIGN ENGINEER.

REVISIONS This plan was designed and drafted by W.L. Martin Home Designs to meet average conditions and codes in the state of Oklahoma at the time it was designed. Because codes and regulations can change and may vary from jurisdiction to jurisdiction, W.L. Marin Home Designs cannot warrant compliance with any special code or regulation. Consult your local building official to determine the suitability of these plans for **GENERAL NOTES DESIGN NOTES** FRAMING Code Update RH Floor: 40 lbs. Live load, 15 lbs. Dead load Roof: 30 lbs. Live load, 20 lbs. Dead load Contractor to confirm the size, spacing and species of all framing and structural members to meet your your specific site and application. This plan can be adapted to your local building codes and requirements, but also, it is the responsibility of local code requirements. Soil bearing capacity-2000 PSF Any structural or framing members not indicated on the plan are to be sized by the contractor. Double floor joists under all partition walls, unless otherwise noted. the purchaser and/or builder of thes plan to see that the structure is built in strict compliance with all 4. Live loads, dead loads, wind loads, snow loads, lateral loads, seismic zoning and any specialty loading the purchaser and/or builder of this plan teleases W.L. Martin Home Designs, its owner and employees conditions will need to be confirmed before construction and adjustments to plans made accordingly. See your local building officials for verification of your specific load data, zoning restrictions and site All angled walls are 45 degree angles unless noted otherwise. Provide collar ties, cross-bridging and bracing as required. Provide additional bearing points as required by loading transfers from any claims or lawsuits that may arise during the construction of this structure or any time thereafter. Framing lay-out and size may vary with local codes and conditions. CONCRETE AND FOUNDATIONS 8. Roof framing plan is for general layout only, do no use for rafter count. 1. All slabs on grade shall be 4 inch 3000 PSI (28-day compressive strength concrete), unless noted 2. All slabs on grade shall bear on four inch compacted granular fill with 6 by 6 10-10 welded wire mesh. Interior slabs shall have 6 mil, polyethylene vapor barrier underneath. Provide proper expansion joints and control joints as per local requirements. Provide additional bearing points as required by floor "l" joist manufacturer, and loading transfers CODES Prefabricated fireplaces and flues are to be U.L. approved and installed per manu. specifications. All materials, supplies and equipment to be installed per manu, specifications and local codes. Provide type "x" firecode sheetock on garage walls and ceilings. = Stendal " or Stokes Project is to be constructed in Foundation details may vary with local codes and conditions, verify with contractor or engineer. accordance to 2018' IBC /RBC... Confirm window openings for your local egress requirements and minimum light and venting. The mechanical and electrical layouts are suggested only. Consult your mechanical and electrical contractors for exact specifications, locations and sizes. Provide foundation access and vents as required by local codes and conditions. Foundation wall and footing sizes reinforcing must conform with your local building requirements Foundation walls are not to be backfilled until house is completely framed and roof is in place. . Exterior Walls are to achieve a Minor alterations to this plan can be made by the builder. Please contact our drafting department for R-21 insulation value and Ceiling is 10. Verify depth of footings with your local codes. information price quotes if major changes are required. o 11. Provide termite protection as required by HUD minimum property standards. to achieve an R-49 Insulation Value. : L BASEMENT All Windows and Doors are to have Basement stairs are calculated as 10 inch treads with 1 inch nosing (11 inch total) and 7.75 inch risers. # 24154 -Modified Water heater and air conditioner may be located in basement when using basement option. a U=.03 value. Provide sump pumps as required. Some soil conditions may require a 12 inch concrete retaining wall, verify with contractor or engineer. 2. Installation of a Radon Vent is Provide exterior windows and door as grade allows. required from under Vapor Barrier of 6. Provide venting as local codes and conditions dictate. Slab Floor up through the Roof of # the structure. www.wlmartinhomes.com 8" Corner Boards (Typical) Martin Scale 1/4" = 1'-0" Sheet 7 FRONT ELEVATION 8 Sheets



FLOOR PLAN SPECS

GARAGE DOOR HEADERS (OVER 6 FT WIDE)

- (2) 2 IN. X 12 IN. W/ 4 IN. STEEL PLATE BETWEEN, BOLTED AT 2 FT. O.C., STAGGERED OR
- PRE-ENGINEERED BEAM.

GARAGES AND ROOMS W/≥6 FT EXTERNAL DOORS (R302/R501)

- 1/2 IN. GYPSUM BOARD ON CEILING.
- 1/2 IN. GYPSUM BOARD ON WALLS ADJOINING DWELLING.
- 1/2 IN. GYPSUM BOARD OR 2 COATS FIRE RETARDANT PAINT ON ATTIC ACCESS.
- TYPE X GYPSUM BOARD ON CEILING IF A ROOM ABOVE.
- 1 3/8 IN. SOLID CORE WOOD, HONEY COMB CORE STEEL, OR 20 MIN. FIRE RATED DOORS FROM GARAGE TO DWELLING.
- GAS APPLIANCES ≥ 18 IN. ABOVE FLOOR.
- DUCTS ≥ 26 GA STEEL W/ AUTOMATIC FIRE DAMPENERS ON ALL OPENINGS INTO GARAGE.

STAIRWAYS (R311.7.1; R311.7.2; R3.11.7.3; R311.7.6 AND R311.7.9):

- ≥ 36 IN. WIDTH. (≥ 31.5 IN. W/ HANDRAILS.)
- ≥ 80 IN. CEILING HEIGHT. (NOSINGS PLANE TO CEILING.)
- ≤ 151 IN. TOTAL STAIRWAY HEIGHT.
- ≥ 36 IN. LANDING AT BOTTOM.
- ILLUMINATED AS PER SECTION R303.7 AND R303.8.

RISERS, TREADS, AND NOSING PROJECTIONS (R311.7.5):

- ≤ 7 ¾ IN. RISER HEIGHT. (+/- ¾ IN. RANGE.)
- ≥ 10 IN. TREAD DEPTH. (+/- % IN. RANGE.)
- ¾ TO 1 ¼ IN. NOSING PROJECTION. (+/- % IN. RANGE.)
- WINDERS / SPIRAL STAIRCASE TREAD DEPTH:
 - o ≥ 6 IN. AT NARROW END. (+/- 3/8 IN. RANGE.)
 - ≥ 10 IN. (12 IN. FROM NARROW END. +/- ¾ IŃ. RANGE.)

HAND RAILS (R 311.7.8 AND R312.1.3):

- REQ'D. IF ≥ 4 RISERS.
- 34 TO 38 IN. ABOVE NOSING PLANE.
- ≤ 4 % IN. PICKET SPACING.
- ≤ 6 IN. TRIANGULAR SPACES BELOW RAIL.
- TERMINATE IN POSTS OR WALL.

HEARTHS (R1001.9)

 CONSTRUCTED AND SUPPORTED WITH NON-COMBUSTIBLE MATERIAL ≥ 4 IN. THICK.

HEARTH EXTENSIONS (R1001.9)

- CONSTRUCTED OF AND SUPPORTED BY NON-COMBUSTABLE MATERIAL ≥ 2 IN. THICK
- FIREPLACE OPENINGS < 6 SQFT;
 - o EXTEND ≥ 16 IN. IN FRONT.
 - o EXTEND ≥ 8 IN. ON SIDES.
- FIREPLACE OPENINGS ≥ 6 SQFT;
 - o EXTEND ≥ 20 IN. FRONT.
 - o EXTEND ≥12 IN. ON SIDES.

FIREPLACES / CHIMNEYS (R1004.1 AND R1102.4.2):

- INSTALL AS PER CODE AND MFG'S INSTR.
 NEW WOOD-BURNING FIRE PLACES REQ:
 - TIGHT FITTING FLUE DAMPERS OR DOORS (UL-127).

CHIMNEYS (R1001 AND R1005.8):

- EXTEND ≥ 3 FT ABOVE ROOF LINE
- EXTEND ≥ 2 FT ABOVE ROOF W/IN 10 FT OF CHIMNEY.
- REQ'S ≥ 0.0187 IN. (#26 GAGE) STEEL INSULATION SHIELD. IN ATTICS SHEILD MUST EXTEND ≥ 2 IN ABOVE INSULATION AND BE SECURED.

TEMPERED GLAZING REQ'D: (R308.4.2; R308.4.5; R308.4.6; AND R308.4.7.):

- <u>DOORS:</u> ≤ 60 IN. ABOVE FLOOR <u>AND</u> ≤ 24 IN.HORIZ.. (EXCEPT INTERIOR GLAZING ≤180° FROM PLANE OF CLOSED DOOR, OPPOSITE HINGE SIDE.)
- WET SURFACES (TUBS, SPAS, SHOWERS, ETC.);
 ≤ 60 IN. ABOVE FLOOR AND ≤ 60 IN. HORIZ...
- STAIRS AND RAMPS; ≤ 36 IN. ABOVE AND ≤ 36 IN. HORIZ. OF WALKING SURFACE. (UNLESS PROTECTED BY RAILING.)
- BOTTOM STAIR LANDINGS: ≤ 60 IN. HORIZ. OF BOTTOM STAIR TREAD NOSING.

BATHROOM VENTS (R1501.1)

TERMINATE TO THE OUTSIDE.

DRYER VENTS (R1501.1; AND R1501.2)

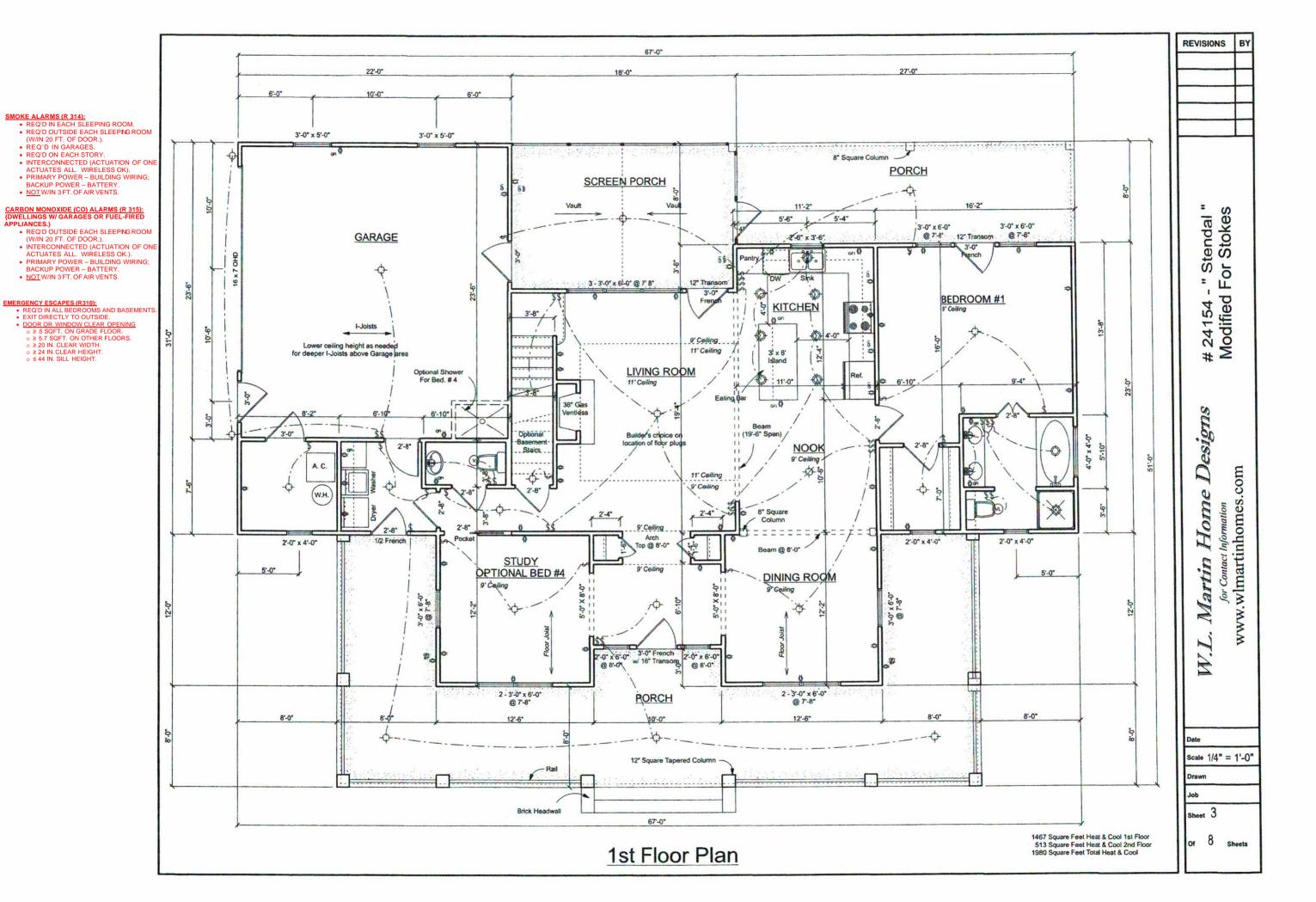
- INDEPENDENT OF OTHER EXHAUST SYSTEMS.
- ≥ 12.5 SQIN. (4 IN. DIA.), THROUGHOUT
- ≤ 35 FT. (EACH 90° BEND = 5 FT.)
- TERMINATE TO OUTSIDE.
- BACKDRAFT DAMPER AT DUCT TERMINATION. (SCREENS NOT ALLOWED)
- JOINTS SEALED W/RIVETS OR APPROVED, REINFORCED ALUMINUM TAPE. (NO SCREWS INSIDE VENT.)

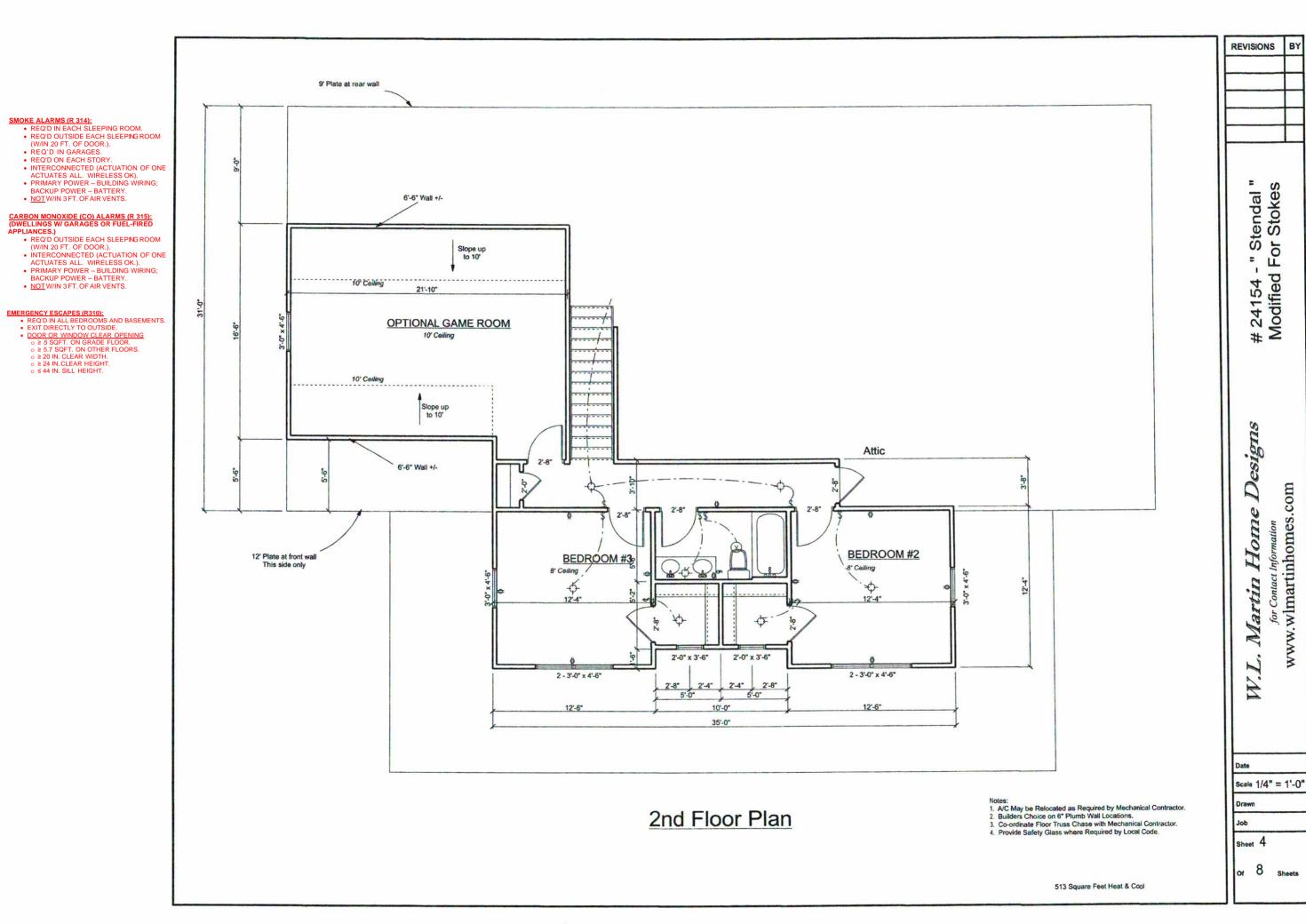
WINDOW EFFICIENCY RATINGS (R1102.1.2)

• ≤ U-0.32. (TABLE 1102.1.4)

MECHANICAL SYSTEMS (R1302 AND R1303)

• MUST BE LISTED AND LABELED.





BY

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ROOF / WALLS

WINDOW EFFICIENCY RATINGS (R1102.1.2)

• ≤ U-0.32. (TABLE 1102.1.4)

MECHANICAL SYSTEMS (R1302 AND R1303)

• MUST BE UL LISTED AND LABELED.

ROOF / CEILING CONSTRUCTION (R800)

- RIDGE BOARDS (R802.3)
 - o ≥1 IN THICK.
 - ≥ DEPTH OF CUT ENDS OF RAFTERS.
- RAFTER TIES
 - IN LOWER 1/3 OF ATTIC IF CEILING JOISTS NOT PARALLEL TO RAFTERS.
- COLLAR TIES / RIDGE STRAPS (R802.3.1)
- o IN UPPER 1/3 OF ATTIC.
- UNDERLAYMENT (R9052.2.3)
- REQUIRED UNDER SHINGLES.

ATTICS (≥ 30 SQFT AND ≥ 30 IN TALL) (R807)

- ACCESS: ≥ 22 IN. X 30 IN.
- VERTICAL CLEARANCE: ≥ 30 IN.
- R-38 INSULATION (1 DEPTH MARKER / 300 SQFT.).
- INSULATE WATER PIPES.
- 1 SQFT. VENT AREA / 150 SQFT ATTIC AREA.
- 1 SQFT. VENT AREA / 300 SQFT. IF 50-80% VENT AREA IN UPPER ATTIC SPACE.
- INSULATE WATER PIPES.

DRIP EDGES (905.2.8.5)

- OVERLAP ≥ 2IN..
- EXTEND ≥ ¼ IN. BELOW ROOF SHEATHING.
- EXTEND ≥ 2 IN. UP THE ROOF DECK.
- MECHANICALLY FASTENED ≤ 12 O.C.. (R 905.2.5)
- EAVES: DRIP EDGE UNDER UNDERLAYMENT.
- RAKE EDGES (GABLES): DRIP EDGE OVER UNDERLAYMENT.

ROOF GUTTERS AND DOWNSPOUTS (2912.5 AND 2912.6):

PROPERLY SIZED GUTTER AND DOWNSPOUTS SHALL BE INSTALLED AS PER SECTION 2912.5 AND 2912.6 OF THE 2018 IRC.

ROOF FLASHING FOR ASPHALT SHINGLES (905.2.8):

INSTALL ROOF FLASHING FOR ASHPHALT SHINGLES AS PER SECTION 905.2.8 OF THE 2018 IRC.

INSULATION (N1101 AND N1102)

- SLAB: ≥ R-10 (2 IN.X 24 IN. RIGID @ PERIM.).
- CRAWL SPACE FLOOR SYSTEM: ≥ R-19.
- BASEMENT WALLS: ≥ R-10 CONT. OR R-13 CAVITY.
- FLOOR: ≥ R-19.
- WALL: ≥ R-13.
- ATTIC: ≥ R-38 (1 DEPTH MARKER / 300 SQFT.).
- ATTIC DUCTS: ≥ R-8.
- OTHER DUCTS: ≥R-6.
- REFRIGERANT PIPES: ≥R-3.
- INSULATE WATER PIPES IN CRAWL SPACE/ ATTIC.

PRE-ENGINEERED COMPONENTS (R502.1.4; R502.8; AND502.11.1)

- INSTALLED ACCORDING TO MFG. INSTRUCTIONS.
- <u>NOT</u> DRILLED, NOTCHED, CUT, OR MODIFIED IN DESIGN OR ARRANGEMENT WITHOUT WRITTEN APPROVAL OF DESIGN ENGINEER.

FIRE BLOCKING IN CONCEALED DRAFT OPENINGS (R302.11)

- VENTS: FLOORS AND CEILINGS.
- PIPES: FLOORS AND CEILINGS.
- DUCTS: FLOORS AND CEILINGS.
- WIRING: FLOORS AND CEILINGS.
- CHIMNEYS: FLOORS AND CEILINGS.
- CHASES: FLOORS AND CEILINGS.
- STAIRS: TOP AND BOTTOM.
- 10 FT, INTERVALS IN TALL WALLS.

BRICK / STONE VENEER WALLS (R703.2; R703.7)

- TIES SPACED ≤ 32IN. HORIZONTALLY
- TIES SUPPORTING ≤ 2.67 SQFT. OF WALL AREA.
- WATER-RESISTIVE BARRIER (HOUSEWRAP / FELT) UNDER EXTERIOR WALL FINISHES.
- 1 IN. AIR SPACE.
- FLASHING W/ WEEPHOLES IN 1ST COURSE ABOVE GRADE AND OVER ALL OPENINGS.
- NON-COMBUSTIBLE SUPPORTS REQUIRED.
- STEEL LINTELS SIZED PER CODE.

NOTE: ALL STRUCTURAL MEMBERS MUST COMPLY W/ LOCAL BUILDING CODES. SHINGLES OVER 15 LB. FELT 1/2" PLYWOOD SHEATHING C/W H CLIPS ROOF TRUSSES @ 24" C/C (Optional Common Frame System, Per Code) ROOF TRUSS DESIGN BY MANU. ENGINEER BUILDING STRAPPING PER LOCAL CODE (TYPICAL) **EAVE DRIP** R-49 Insulation 8" FASCIA **CORNICE DETAILS MAY VARY** 5/8" DRYWALL **VENTED SOFFIT** SEE FRONT ELEVATION FRIEZE BOARD 2-2X4 TOP PLATES TYPICAL YXA BRICK EXTERIOR WALL 4" FACE BRICK OR OTHER MASONRY VENEER TIES @ 16" HORIZONTAL & 32" VERTICAL (OPTIONAL LAP SIDING) 8' Ceiling Height 2nd Floor, typ. 1" AIR SPACE 1/2" FOAMBOARD (OR BACKER BOARD) unless otherwise noted House is to receive Batten Siding AIR BARRIER Exterior Insulated Walls are to be 2x4 STUDS @ 16" C/C (BRACE AS NEEDED) 2x6 studs @16" o/c with R-21 R13 INSULATION 1/2" GYPSUM BOARD Insulation. Exterior Sheathing is to BASEBOARD be Zip Board, installed per manufactures recommendation 3/4" TONGUE & GROOVE PLYWOOD BUILDING STRAPPING PER LOCAL CODE (TYPICAL) Sound Insulation between floors and around bathroom walls Floor joist are to be 2x10's @ 16" on center, or an approved preengineered Wood I Joist All Joist must comply or exceed table 502.3.1 of the 2018' RBC. with hangers as required by code. 9' Ceiling height 1st floor, TYP unless otherwise noted BASEBOARD 1/2" x6" anchor bolts imbedded into concrete foundation at 4' o/c WEEP VENTO EVERY ORD BRICK SEE FOUNDATION DETAIL SHEET TYPICAL BUILDING SECTION Revision RH W.L. Martin Home Designs # 24154 " Stendale "

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ALL

FOUNDATIONS

FOOTINGS (R403.1.1; R403.1.4; AND R403.1.6)

- ≥ 2500 PSI CONCRETE.
- ON UNDISTURBED OR ≥ 90% COMPACTED SOIL.
- ≥ 8 IN.THICK.
- EXTEND ≥ 12 IN. BELOW GRADE.
- ≥ 16 IN. WIDE: 8 IN. HOLLOW CMU WOOD FRAME UP TO 2 STRY.
- ≥ 24 IN. WIDE: SOLID OR FILLED CMU WOOD FRAME UP TO 3 STRY.
- EXTEND ≥ 2 IN., BUT ≤ FOOTING THICKNESS ON BOTH SIDES OF FND. WALL.

FOUNDATION WALLS (R404.1; R404.6.1)

- EXTEND ≥ 4 IN. ABOVE GRADE: MASONRY VENEER.
- EXTEND ≥ 6 IN. ABOVE GRADE: ALL OTHERS.
- SIZED AND REINFORCED (WALL HEIGHT VS BACKFILL).
- BRACED TO FLOOR DIAPHRAGM ON TOP ON ALL SIDES.
- ENGINEERING REQUIRED FOR HYDROSTATIC PRESSURE (GROUNDWATER), UNSTABLE SOILS, OR NO PERMANENT LATERAL SUPPORT (TOP, BOTTOM, ALL SIDES.)

ANCHOR BOLTS (R403.1.6)

- ≥ ½ IN. DIAMETER BOLTS.
- EMBEDDED ≥ 7 IN. INTO CONCRETE OR GROUT FILLED CMU.
- ≤ 6 FT. O.C. OR CODE APPROVED ALTERNATIVE.
- NUT AND WASHER ON EACH BOLT
- ≥ 2 BOLTS / SILL PLATE.
- 1 BOLT ≥ 12 IN. AND ≥ 3.5 IN. AT EACH END.

INSULATION (N1101 AND N1102)

- SLAB: ≥ R-10 (2 IN.X 24 IN. RIGID @ PERIM.).
- CRAWL SPACE FLOOR SYSTEM: ≥ R-19.
- BASEMENT WALLS: ≥ R-10 CONT. OR R-13 CAVITY.
- FLOOR: ≥ R-19.
- WALL: ≥ R-13.
- ATTIC: ≥ R-38 (1 DEPTH MARKER / 300 SQFT.).
- ATTIC DUCTS: ≥ R-8.
- OTHER DUCTS: ≥R-6.
- REFRIGERANT PIPES: ≥R-3.
- INSULATE WATER PIPES IN CRAWL SPACE / ATTIC.

BASEMENTS

FIRE PROTECTION OF FLOORS (R302.13)

½ IN. GYPSUM WALLBOARD OR % IN. WOOD STRUCTURAL PANELS ARE REQ'D ON UNDERSIDE OF FLOOR ASSEMBLIES WHEN TRUSSES, I-JOISTS, OR JOISTS ≤ 2 IN. x 8 IN. ARE USED; UNLESS THE FLOOR ASSEMBLY IS:

- OVER A CRAWL SPACE <u>NOT</u> INTENDED FOR STORAGE OR FUEL-FIRED OR ELECTRIC-POWERED HEATING APPLIANCES.
- PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM (P2904): OR
- SEPARATED BY FIRE BLOCKING FROM OTHER FLOOR ASSEMBLIES <u>AND</u> COVERING LESS THAN 80 SQFT...

RADON VENT PIPE (APPENDIX F)

- REQ'D EXCEPT IN CRAWL SPACES W/ VENTILATION.
- 3 IN. PIPE FROM "TEE" UNDER SLAB OR MEMBRANE TO ATTIC
- VENT ABOVE ROOF WHEN HIGH RADON DETECTED.
- SEAL POTENTIAL RADON ENTRY ROUTES.
- FLOOR OPENINGS.
- o CONCRETE JOINTS.
- o SUMP PITS.
- o TOPS OF HOLLOW CMU FOUNDATION WALLS.

SLABS

RADON VENT PIPE (APPENDIX F)

- REQ'D EXCEPT IN CRAWL SPACES W/ VENTILATION.
- 3 IN. PIPE FROM "TEE" UNDER SLAB OR MEMBRANE TO ATTIC
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- SEAL POTENTIAL RADON ENTRY ROUTES.
- o FLOOR OPENINGS.
- CONCRETE JOINTS.
- o SUMP PITS.
- o TOPS OF HOLLOW CMU FOUNDATION WALLS.

CRAWL SPACES

FIRE PROTECTION OF FLOORS (R302.13)

½ IN. GYPSUM WALLBOARD OR 5/8 IN. WOOD STRUCTURAL PANELS ARE REQ'D ON UNDERSIDE OF FLOOR ASSEMBLIES WHEN TRUSSES, I-JOISTS, OR JOISTS ≤ 2 IN. x 8 IN. ARE USED; UNLESS THE FLOOR ASSEMBLY IS:

- OVER A CRAWL SPACE <u>NOT</u> INTENDED FOR STORAGE OR FUEL-FIRED OR ELECTRIC-POWERED HEATING APPLIANCES.
- PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM (P2904); OR
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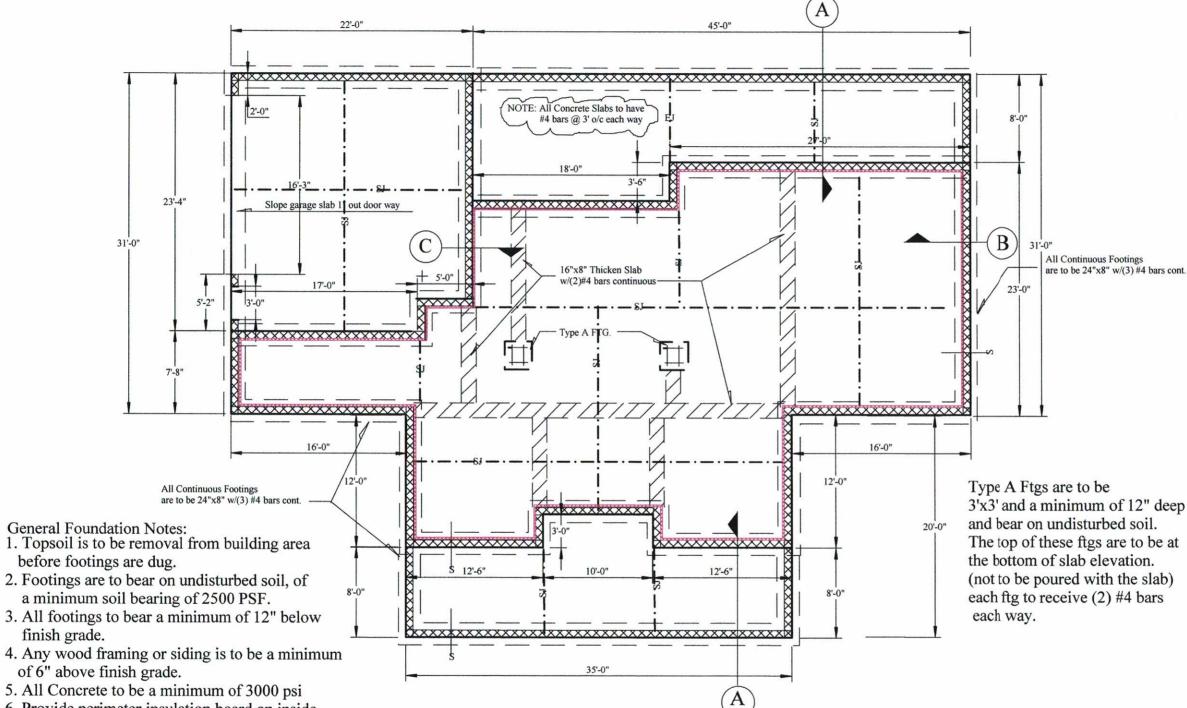
PIER HEIGHT (R404.1.9)

- ≤ 4 X LEAST DIMENSION (HOLLOW CMU).
- ≤10 X LEAST DIMENSION (SOLID OR FILLED CMU.)

CRAWL SPACE (R408)

- ≥ 18 IN. X 24 IN. ACCESS.
- ≥ 18 IN. HEIGHT.
- VENTED CRAWL SPACE (R408.1):
 - 1 SQFT. VENT AREA PER 150 SQFT. OF CRAWL SPACE AREA (W/O VAPOR BARRIER).
 - 1 SQFT. VENT AREA PER 1500 SQFT. OF CRAWL SPACE AREA (W/ VAPOR BARRIER).
 - 1 SQFT. VENT AREA W/IN 3 FT. OF EACH CORNER.
- UNVENTED CRAWL SPACE (R408.3):
 - o AS PER R408.3.





FOUNDATION PLAN

5. All Concrete to be a minimum of 3000 psi

6. Provide perimeter insulation board on inside of all foundation walls and under slab as directed by local code.

- 7. All concrete procedures are to be per ACI standards.
- 8. Provide a 4" reinforced concrete slab over .006 mil poly vapor barrier, over compacted crushed stone.
- 9. Provide a Radon Vent, from under slab and install through Roof. (see Detail)



