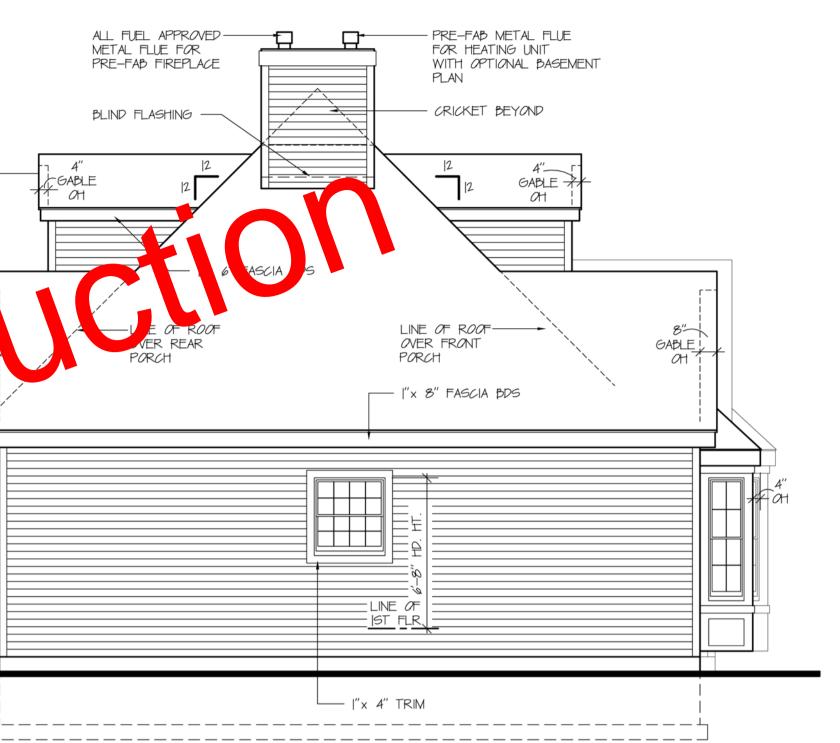
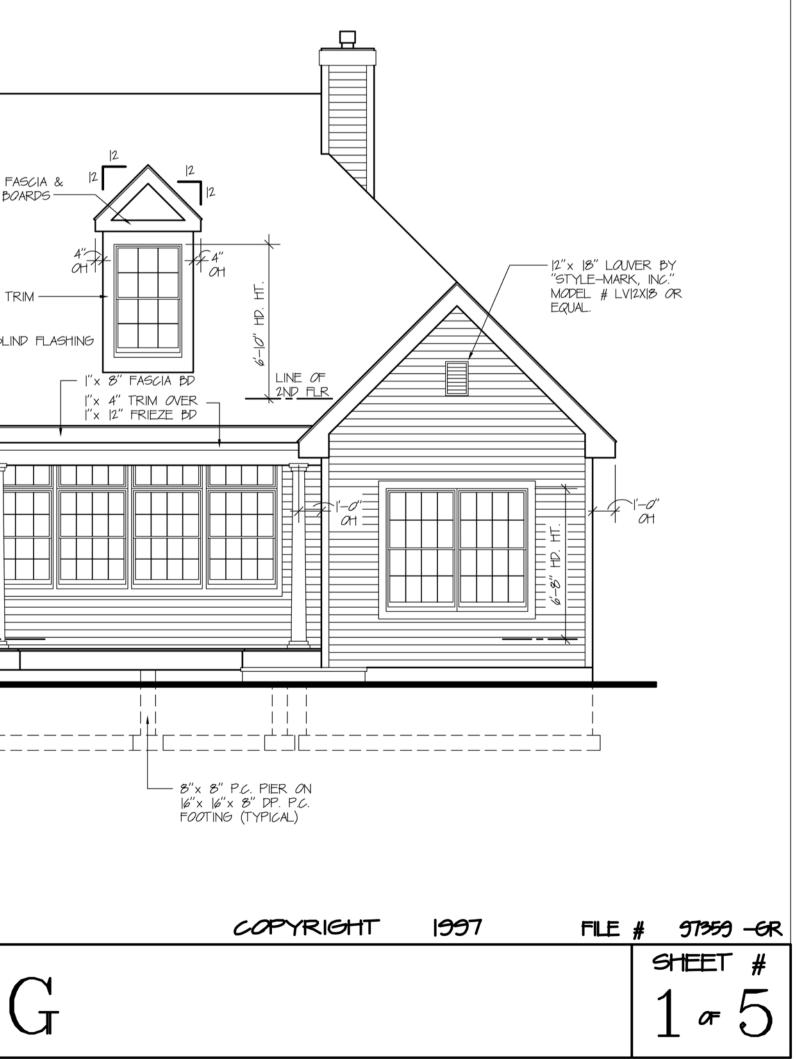
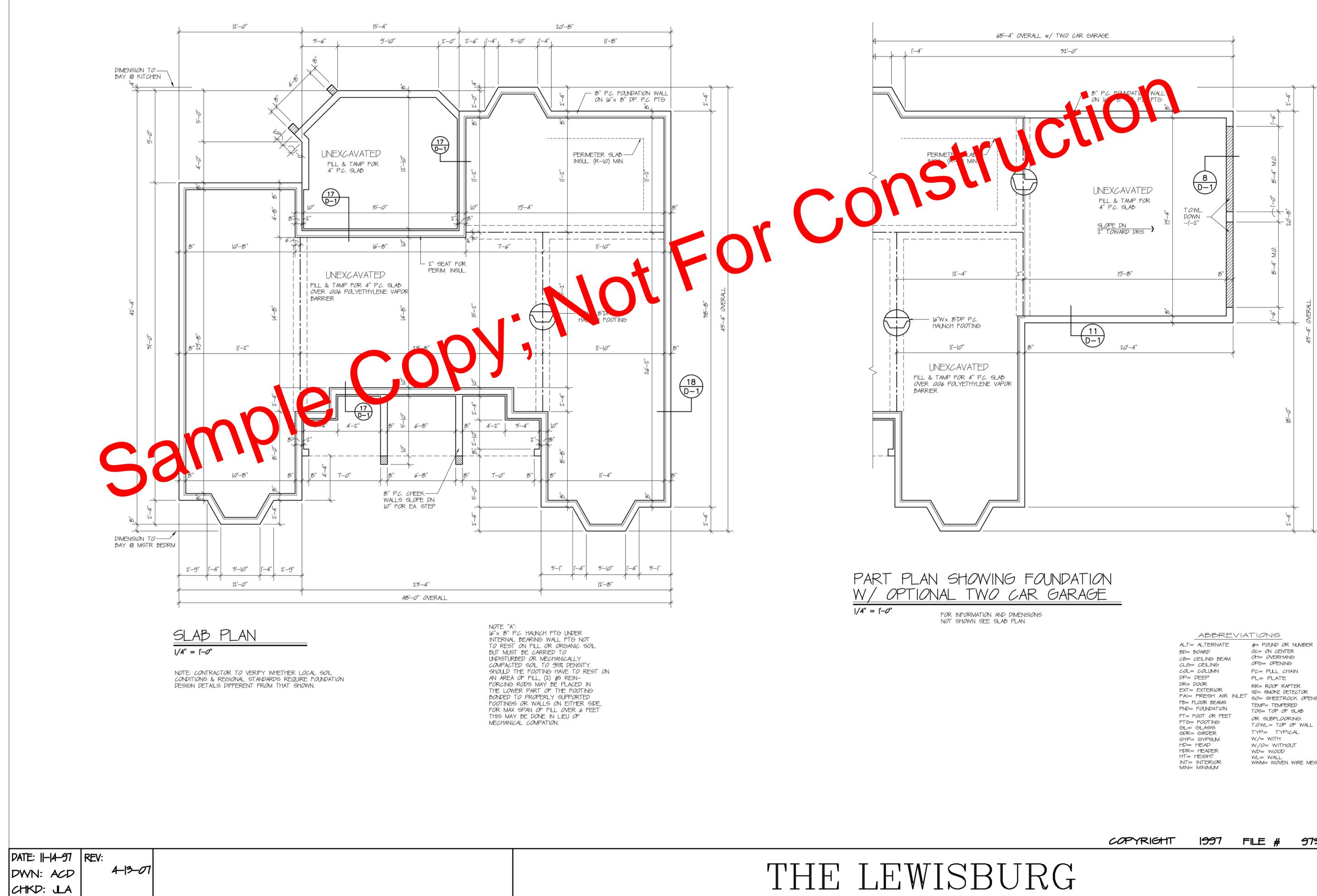


ALL FUEL APPROVED-METAL FLUE FOR PRE-FAB FIREPLACE - FLUE LOCATION FOR HEATING UNIT WITH OPTIONAL SLAB, OR CRAWL SPACE PLANS BLIND FLASHING -, GABLE OH GABLE - |"x 8" RAKE BDS 0H (TYPICAL) |2 BLIND METAL FLASHING — 1″x 8″ FASCIA BD — |"x 4" TRIM |"x 8" FASCIA BDS - (TYPICAL) teat р СП-0" СП OH-¥74' |"× 4" TRIM — - OPTIONAL TWO CAR GARAGE UTE) WOOD LEFT SIDE ELEVATION |/4'' = |' - O''NOTE: PROVIDE RAILINGS ON DECHS AND PORCH AS REQUIRED BY CODE ┍═╘╛═┑ **F**----|"x 6" FASCIA & RAKE BOARDS — 28" x 43" CATHEDRAL LOUVER BY ----' (F |"x 8" TRIM-"STYLE-MARK, INC." MODEL # CLV28X43 & CLV28X43X6F OR EQUAL -BLIND FLASHING 1"x 8" RAKE BD Σ = |"x 4" *CO*RNER BDS == =|"× 4" TRIM ≡ LINE OF IST FLR _____ -----_____ TWO CAR GARAGE REAR ELEVATION |/4'' = |'-0''

THE LEWISBURG

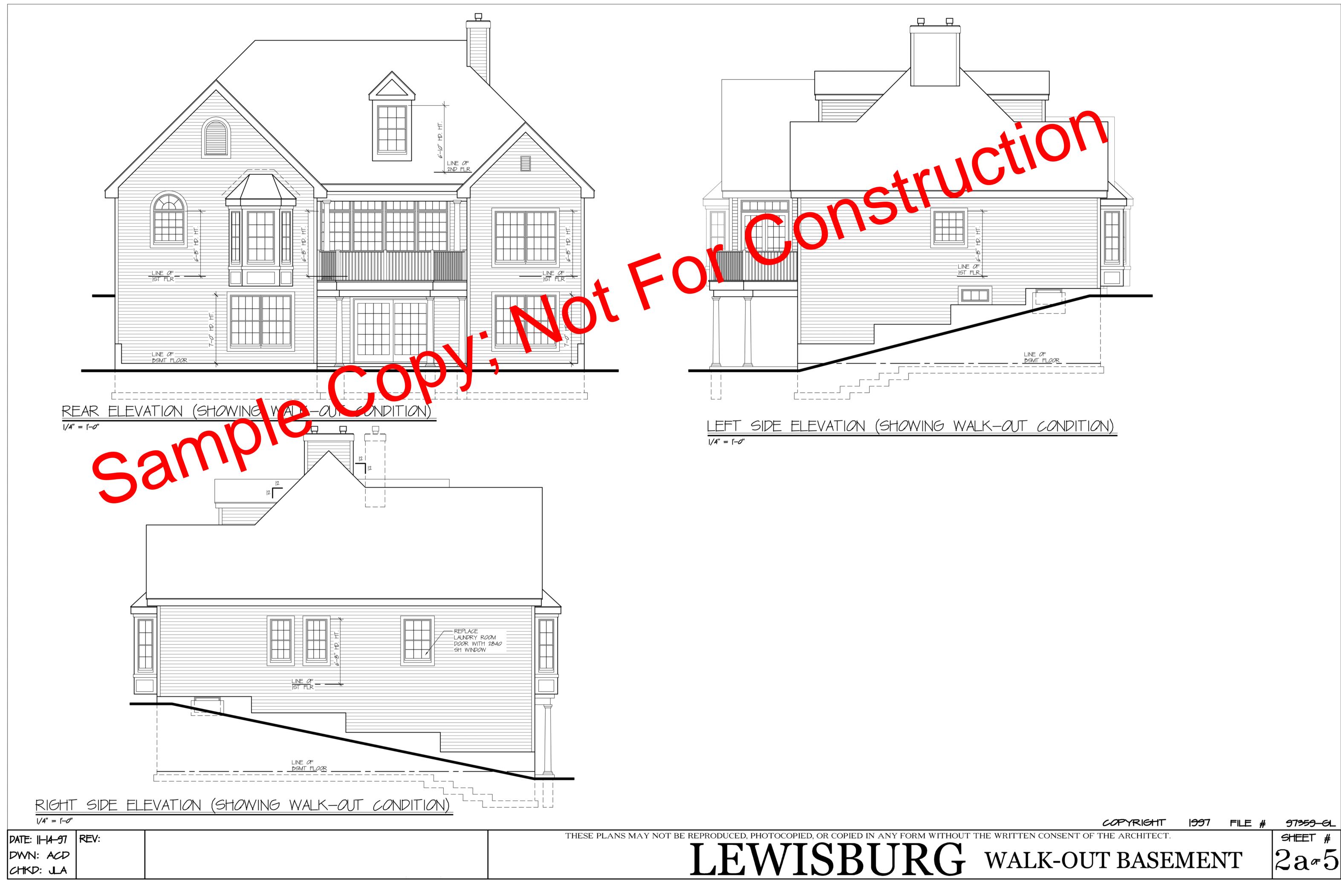


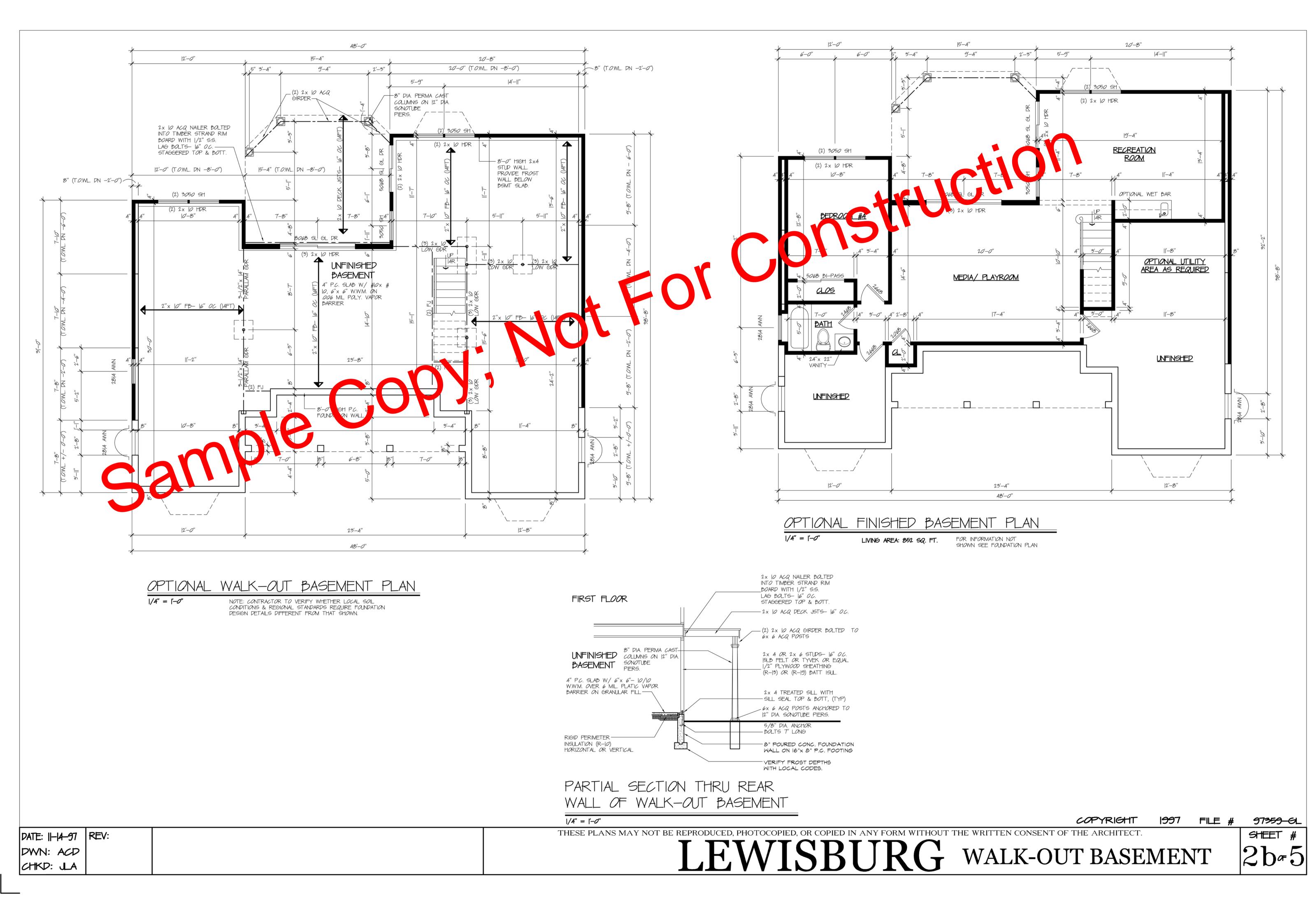


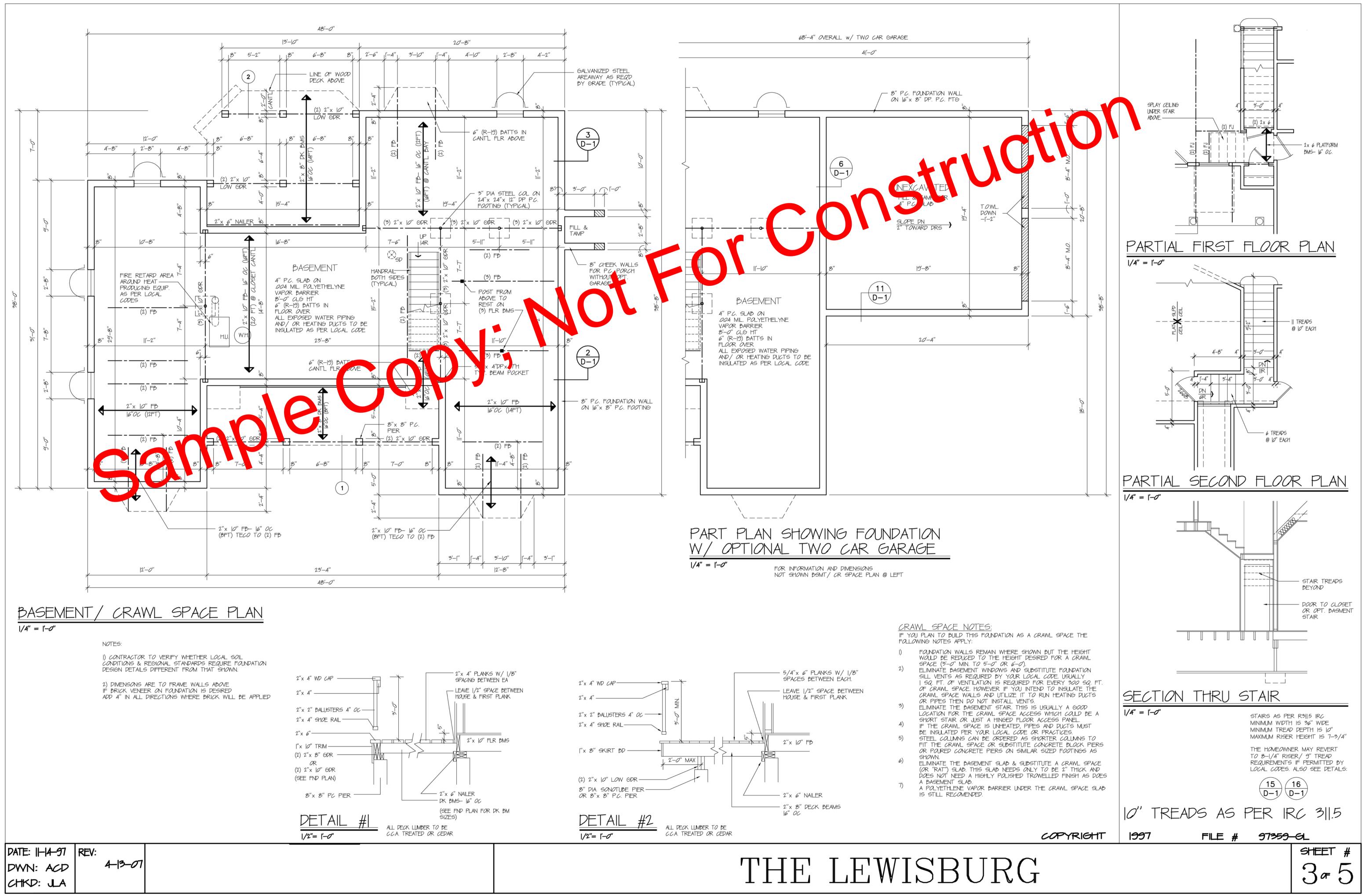


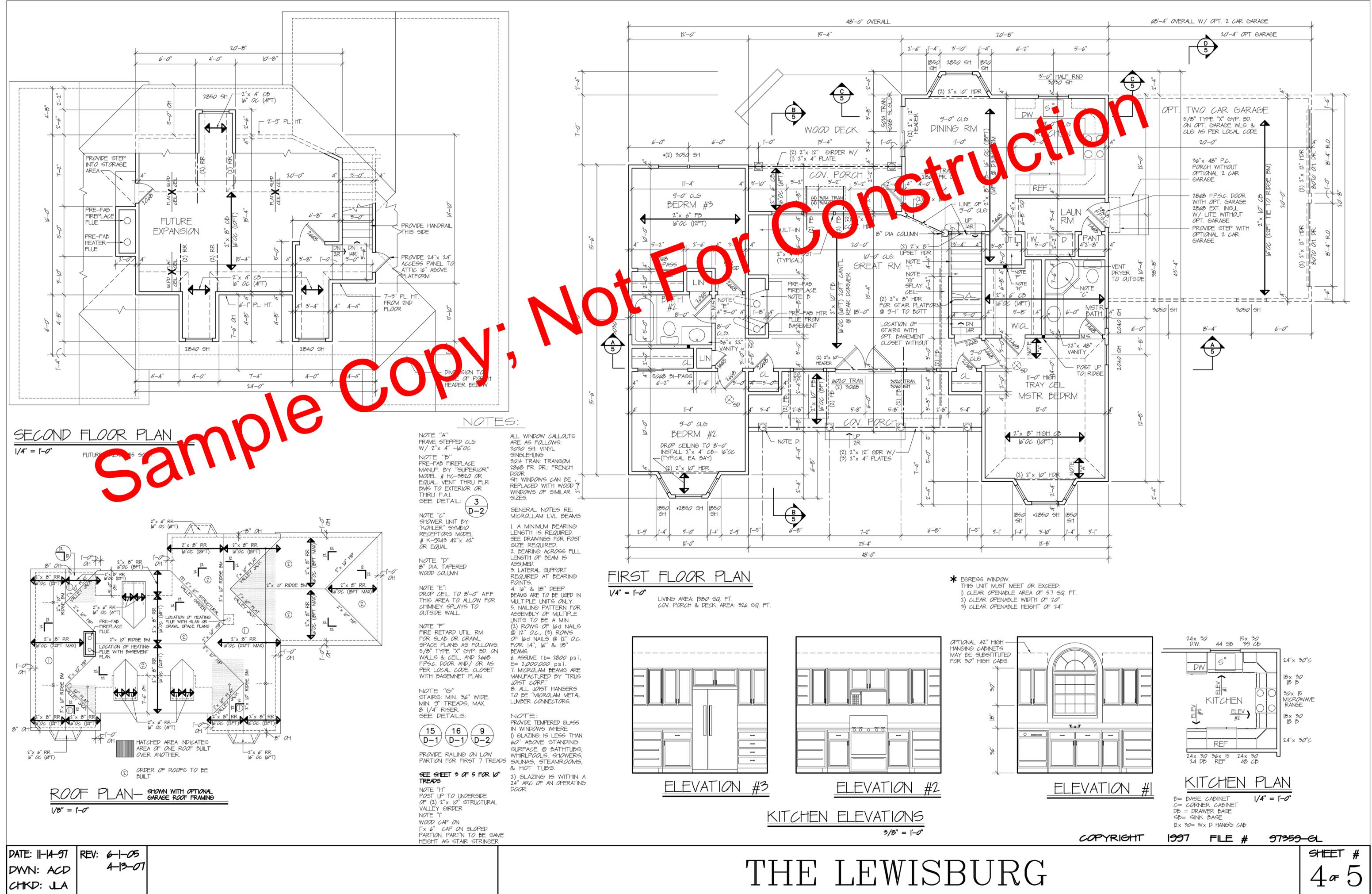
ABBREVIA	TIONS
ALT= ALTERNATE BD= BOARD CB= CEILING BEAM CLG= CEILING CA= CALMN DP= DEEP DR= DOOR EXT= EXTERIOR FAI= FRESH AIR INLET FD= FLOOR BEAMS FND= FOUNDATION FT= FOOT OR FEET FTG= FOOTING GL= GLASS GDR= GIRDER GYP= GYPSUM HD= HEAD HDR= HEADER	#= POUND OR NUMBER $\partial C= ON CENTER$ $\partial T= OVERHANG$ $\partial PG= OPENING$ PC= PULL CHAIN PL= PLATE RR= ROOF RAFTER SD= SMOKE DETECTOR SO= SHEETROCK OPENING TEMP= TEMPERED TOS= TOP OF SLAB OR SUBFLOORING T.O.WL.= TOP OF WALL TYP= TYPICAL W/= WITH W/O= WITHOUT WD= WOOD
HT= HEIGHT INT= INTERIOR MIN= MINIMUM	WL= WALL WWM= WOVEN WIRE MESH

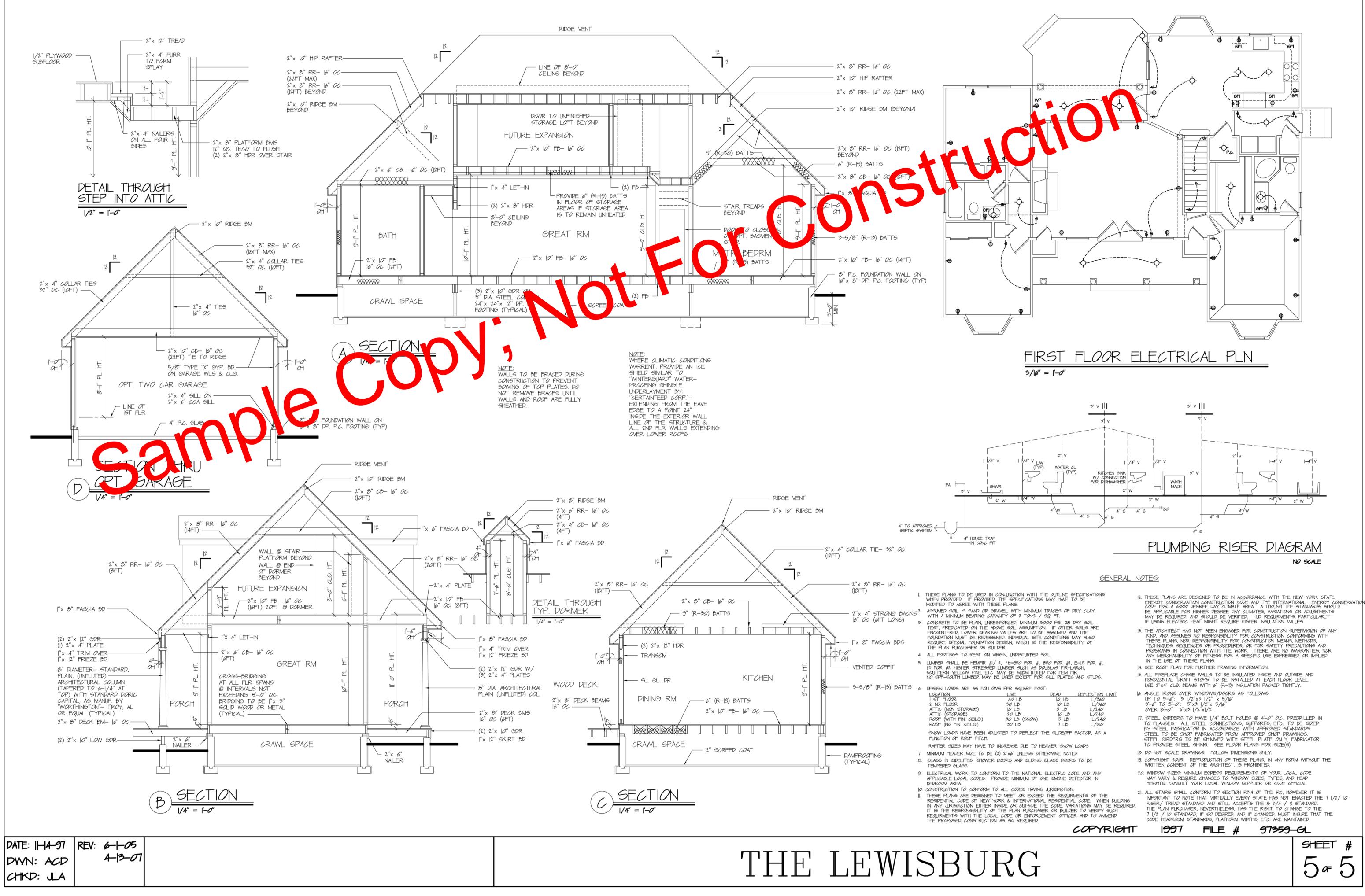
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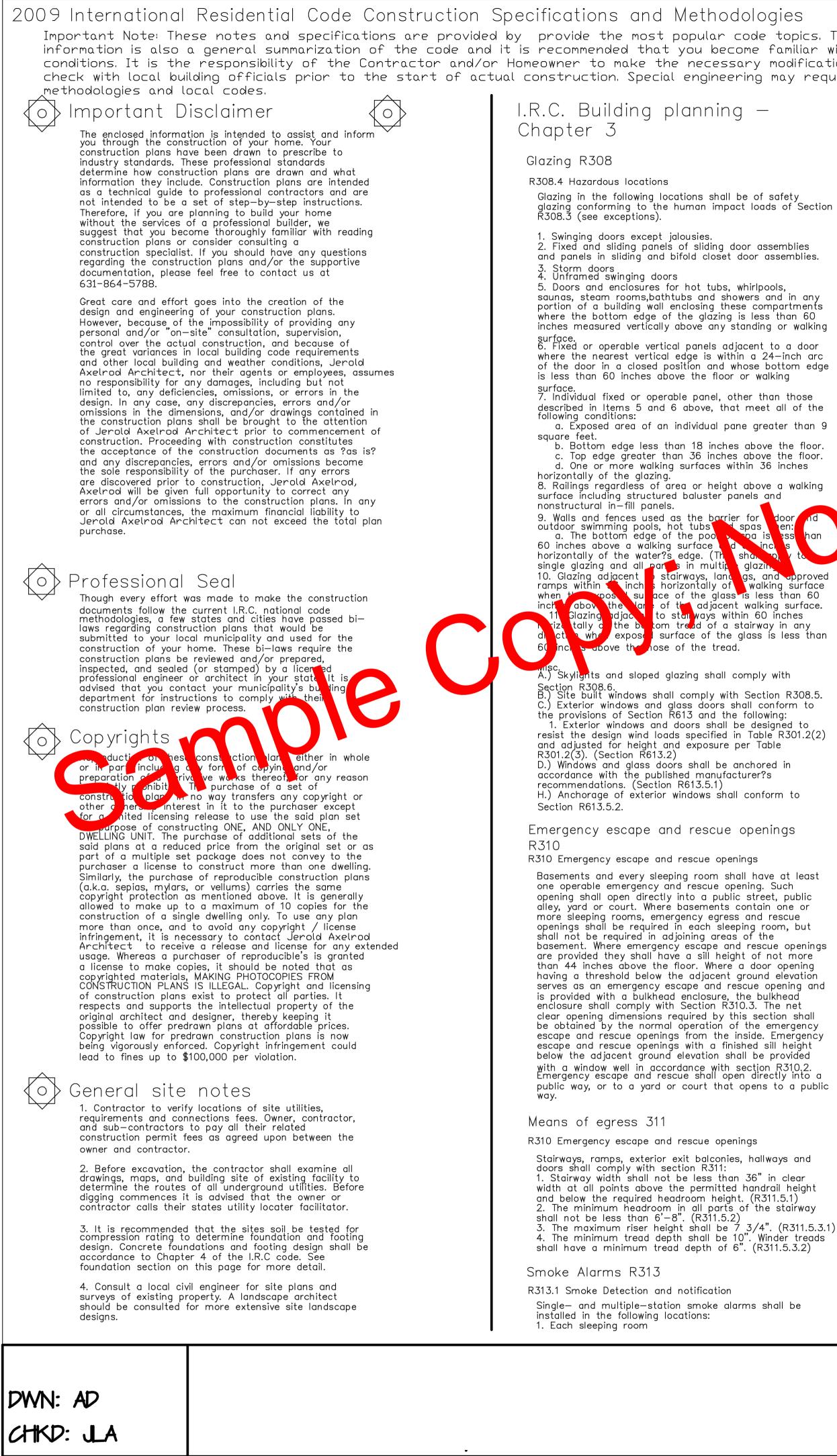












Important Note: These notes and specifications are provided by provide the most popular code topics. The information and methodologies prepared herein are in accordance to and referenced to the 2009 International Residential Code. The information is also a general summarization of the code and it is recommended that you become familiar with the full extent of the actual code. The notes and specifications may have to be amended due to variations in local codes and geological conditions. It is the responsibility of the Contractor and/or Homeowner to make the necessary modifications to ensure code compliance and structural integrity. It is recommended that you consult a local architect or engineer of your choice and check with local building officials prior to the start of actual construction. Special engineering may require that these specifications be changed or amended to comply with seismic, wind, or other special conditions as required by local construction.

R313.1 Smoke Detection and notification - CONTINUE 2. Outside of each sleeping area in the immediate vicinity

of the bedrooms 3. On each additional story of the dwelling, including basements and cellars but not including crawl spaces

any uninhabitable attics. In dwellings or dwelling units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

Smoke alarms shall be interconnected and the power source for smoke alarms shall comply with Section R313.3.

Flood-Resistant Construction R324

R324.1 General

Buildings and structures constructed in whole or in flood hazard areas (including A or V Zones) established in Table R301.2 (1) shall be regioned constructed in accordance with the part ision

in this section. al systems R324.1.1 Struct

All structure systems of a buildin ar structures shall be desined, connected and inchored to resist structural ds an stresses from flooding equal to design flood

24. 3 Establishing the design flood elevation

The design flood elevation shall be used to define areas prone to flooding, and shall describe. at a minimum. the base flood elevation at the depth of peak elevation of flooding(including wave height) which has a 1 percent or greater chance of being equaled to exceeded in any given year.

For Determining design flood elevations and impacts refer to section R324.1.3.1 and R324.1.3.2.

R324.1.5 Protection of mechanical and electrical

Electrical systems, equipment and components, and heating, ventilating , air conditioning, and plumbing applications, plumbing fixtures, duct system, and other service equipment shall be located at or above the design flood elevation.

Review EXCEPTIONS R324.1.5

R324.2.2 Enclosed area below design flood elevation

Enclosed areas, including crawl spaces, that are below the design flood elevation shall: 1. Be used solely for parking of vehicles, building access or storaae.

2. Be provided with flood openings that meet the following criteria:

a. There shall be a minimum of two openings on different sides of each enclosed area: if any building has more than one enclosed area below the design flood elevation, each area shall have openings on exterior

walls. b. The total net area of all openings shall be at least 1 square inch for each square foot of enclosed area, or the openings shall be designed and the construction documenters shall include a statement that the design and installation will provide for equalization of hydrostatic flood forces on exterior walls by allowing for automatic entry and exit of floodwaters. c. The bottom of each opening shall be 1 foot or less

above the adjacent ground level. d. Openings shall be at least 3 inches in diameter. e. Any louvers, screens, or other opening covers shall

allow the automatic flow of flood waters into and out of the enclosed area. f. Openings installed in doors and windows, that meet requirements a-e are acceptable; however, doors and windows without installed openings do not meet the

requirements of this section. Per section R324.3.5, enclosed areas below the design flood elevation shall be used solely for parking or

SI.R.C. Foundation − Chapter 4

vehicles, building access or storage.

General R401

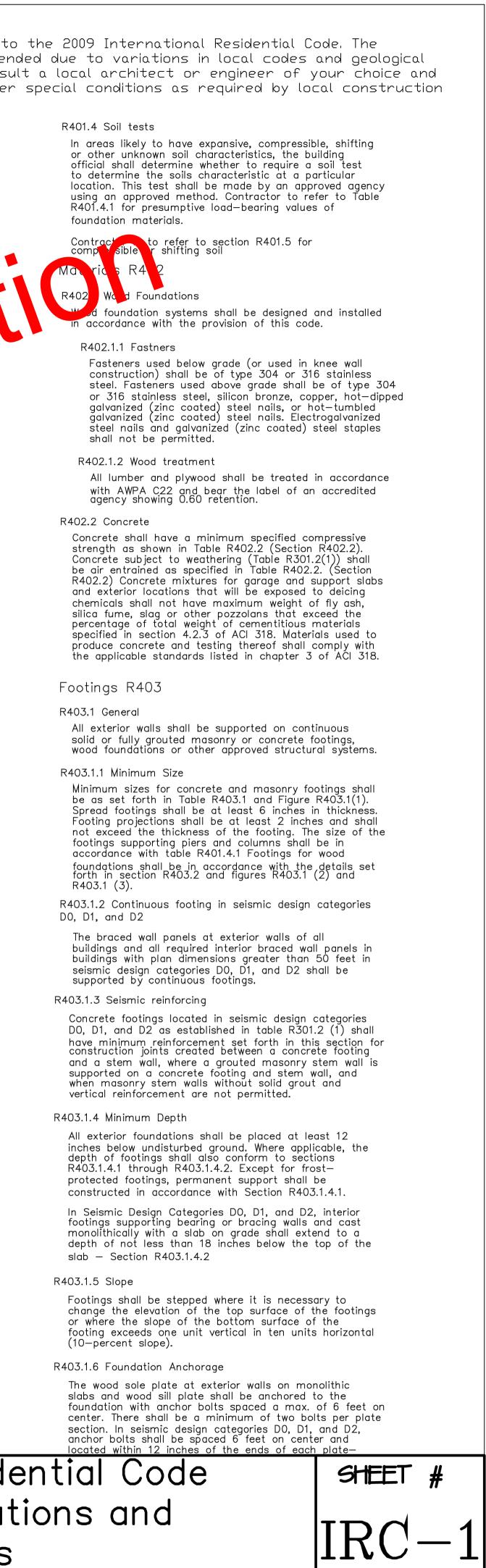
R401.2 Requirements

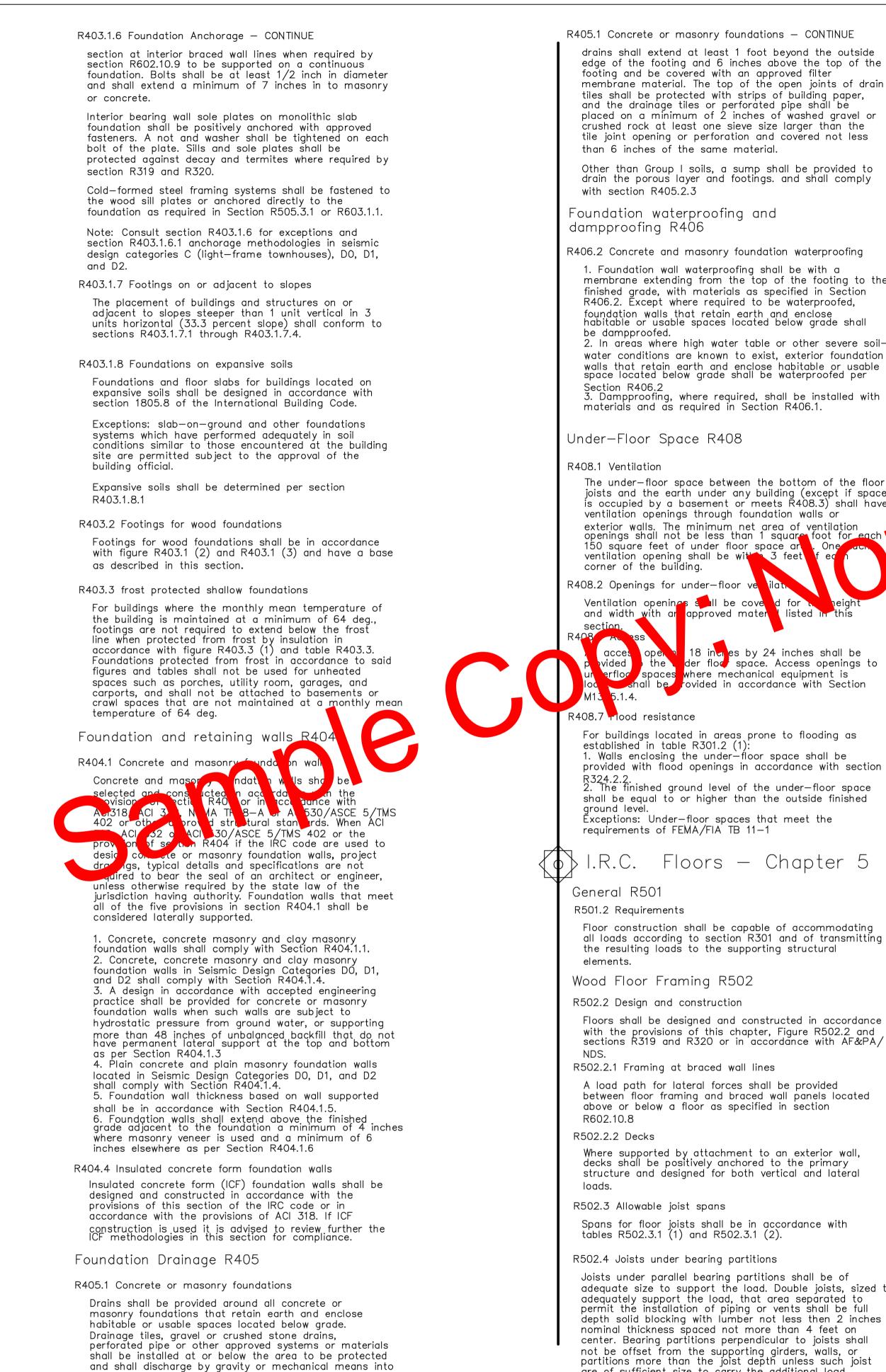
Foundation construction shall be capable of accommodating all loads according to section R301 and of transmitting the resulting loads to the supporting soil. Fill soils that support footings and foundations shall be designed, installed, and tested in accordance with accepted engineering practices. Gravel fill used as footings for wood and precast foundations shall comply

with section R403 R401.3 Drainage

Surface drainage shall be diverted to a storm sewer conveyance or other approved point of collection so as to not create a hazard. Lots shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches within the first 10 faat

> 2009 International Residential Code Construction Specifications and Methodologies





an approved drainage system. Gravel or crushed stone-

DWN: AD

CHKD: JLA

edge of the footing and 6 inches above the top of the

membrane extending from the top of the footing to the

2. In areas where high water table or other severe soilwater conditions are known to exist, exterior foundation

The under-floor space between the bottom of the floor joists and the earth under any building (except if space is occupied by a basement or meets R408.3) shall have 📩 3 feet

listed

18 incres by 24 inches shall be der floc space. Access openings to spaces where mechanical eauipment is rovided in accordance with Section

with the provisions of this chapter, Figure R502.2 and sections R319 and R320 or in accordance with AF&PA/

adequate size to support the load. Double joists, sized to depth solid blocking with lumber not less then 2 inches are of sufficient size to carry the additional load.

R502.8 Drilling and notching

Structural floor members shall not be cut, bored, or notched in excess of the limitations specified in Figure R502.8

.R.C. Walls — Chapter 6

Wood wall framing R602

R602.10. Braced wall lines

Braced wall lines shall consist of braced walls panel construction in accordance with section R602.10.3. The amount and location of bracing shall be in accordance with table R602.10.1 and the amount of bracing shall be greater of that required by the seismic design category or the design wind speed. Braced wall panels shall begin no more than 12.5 feet from each end of a braced wall line. Braced wall line shall be in line, except that offsets out-of-plane of up to 4 feet shall be permitted provided that the total out-to-out offset dimension in any braced wall line is not more than 8 feet.

Braced wall panel construction methods shall be in accordance to R602.10.3

Alternate braced wall panels shall be in accordance to R602.10.6

Exterior Windows and Glass Doors R613.2 Window Sills

In dwellings units, where the is located surface b window be a mini floor of room in w

penings pass.

clear part bove the finished had shall be fixed or have inch diameter sphere cannot

perable

ceptions: Window openings that will not allow a 4 inch meter sphere to pass through and windows that are ⊳vided with window guards the comply with ASTM F2006 or

In other words, devises that can be releasable and removable from the inside without the use of tools, special knowledge or effort, as specified in Section R310.1.

I.R.C. Wall Coverings — Chapter 7

floor and

ough whi

Exterior covering R703

R703.2 Water-resistive barrrier

One layer of no.15 asphalt felt, free from holes and breaks, complying with ASTM D 226 for type 1 felt or other approved water-resistive barrier shall be applied over studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer not less then 2 inches. Where joints occur, felt shall be lapped not less than 6 inches. The felt or approved material shall be continuous to the top of the walls and terminate at penetrations and the buildings appendages in a manner to meet the requirements of the exterior wall envelope as described in Section R703.1.

R703.6 Exterior plaster

Installation of these materials shall be in compliance with ASTM C926 and ASTM C 1063 and the provisions of this code.

R703.6.1 Lath

All lath and lath attachments shall be of corrosion— resistant materials. Expanded metal or woven wire lath shall be attached with $1 \frac{1}{2}$ -inch-long, 11 gauge nails, having a 7/16-inch head, or 7/8-inch-long, 16-gauge staples, spaced not more than 6 inches, or as otherwise approved.

R703.6.2 Plaster

Plastering with portland cement plaster shall be not less than three coats when applied over metal lath or wire lath and shall be not less than two coats when applied over masonry, concrete, pressure-preserved treated wood or decay resistant wood as specified in Section R3109.1 or gypsum backing. If the plaster surface is completely concealed, plaster application need to be only two coats, provided the total thickness is set fourth in table R702.1 (1).

On wood-frame construction with an on-grade floor slab system, exterior plaster shall be applied to cover, but not extend below, lath, paper, and screed.

The proportion of aggregate to cementitious materials shall be set fourth in table R702.1 (3).

R703.6.2.1 Weep screeds

A minimum 0.019-inch (No. 26 galvanized sheet gauge), corrosion-resistant weep screed or plastic weep screed, with a minimum vertical attachment flange of 3 1/2inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches above the earth or 2 inches above the paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building The weather-resistant barrier shall lap the attachment flange. The exterior lath shall cover the terminate on the attachment flange of the weep screed.

R703.6.3 Water-resistive barriers - ext. plaster

Water-resistive barriers shall be installed as required in section R703.2 and, where applied over wood-based sheathing, shall include a water-resistive vaporpermeable barrier with the performance at least equivalent to two layers of grade D paper.

> 2009 International Residential Code Construction Specifications and Methodologies

R703.7.3 Lintels - brick veneer Masonry veneer shall not support any vertical load other than the dead load of the veneer above. Veneer above openings shall be supported on lintels of noncombustible materials and the allowable span shall not exceed the value set fourth in table R703.7.33 The lintels shall have a length of bearing not less than 4 inches. R703.7.4 Anchorage - brick veneer

Masonry veneer shall be anchored to the supporting wall with corrosion-resistant metal ties. Where veneer is anchored to wood backings by corrugated sheet metal ties, the distance separating the veneer from the sheathing material shall be a maximum of a nominal 1 inch. Where the veneer is anchored to wood backings using metal strand wire ties, the distance separating the veneer from the sheathing material shall be a maximum of 4 1/2 inches. Each tie shall be spaced not more than 24" on center horizontally and vertically and shall support not than 2.67 square feet of wall area as per section (703, 4.1

oot-Clna Construction —

General R80

R501.2 Requirements

Roof and ceiling construction shall be capable of accommodating all loads imposed according to section R301 and of transmitting the resulting loads to the supporting structural elements.

Wood Roof Framing R802

R802.3 Framing details

Rafters shall be framed to ridge board or to each other with a gusset plate as a tie. Ridge board shall be at least 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valleys and hips there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where roof pitch is less than 3 units vertical in 12 units horizontal, structural members that support rafters and ceiling joists, such as ridge beams, hip and valleys, shall be designed as beams

Ceiling joists and rafter connectors and laps shall be in accordance to section R802.3.1 and R802.3.2.

R802.4 Allowable ceiling joist spans

Spans for ceiling joists shall be in accordance with tables R802.4 (1) and R802.4 (2). For other grades and species and for other loading conditions, refer to AF&PA span tables for joists and rafters.

R802.5 Allowable rafter spans

Spans for rafters shall be in accordance with tables R802.5 (1) and R802.5.1 (8). For other grades and species and for other loading conditions, refer to AF&PA span tables for joists and rafters. The span of each rafter shall be measured along the horizontal projection of the rafter.

R802.5.1 Purlins

Installation of purlins to reduce the span of rafters is permitted as shown in Figure R802.5.1. Purlins shall be sized no less than the required size of the rafters that they support. Purlins shall be continuous and shall be supported by 2-inch by 4-inch braces installed to bearing walls at a slope no more than 45 degrees fro the horizontal. The braces shall be spaced not more than 4 feet on center and the unbraced length of braces shall not exceed 8 feet.

Roof Ventilation R806

R806.1 Ventilation required Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of the roof rafter shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilating openings shall be provided with corrosion-resistant wire mesh, with 1/8inch minimum to 1.4 inch maximum openings.

R806.2 Minimum area The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted, provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet above the eave or cornice vents with the balance of the required ventilation provided be eave or cornice vents.

R806.3 Vent and insulation clearance Where eave or cornice vents are installed, insulation shall not block the free flow of air. A minimum of 1-inch space shall be provided between the insulation and the roof sheathing and at the location of the vent.

Attic access R807 R807.1 Attic access

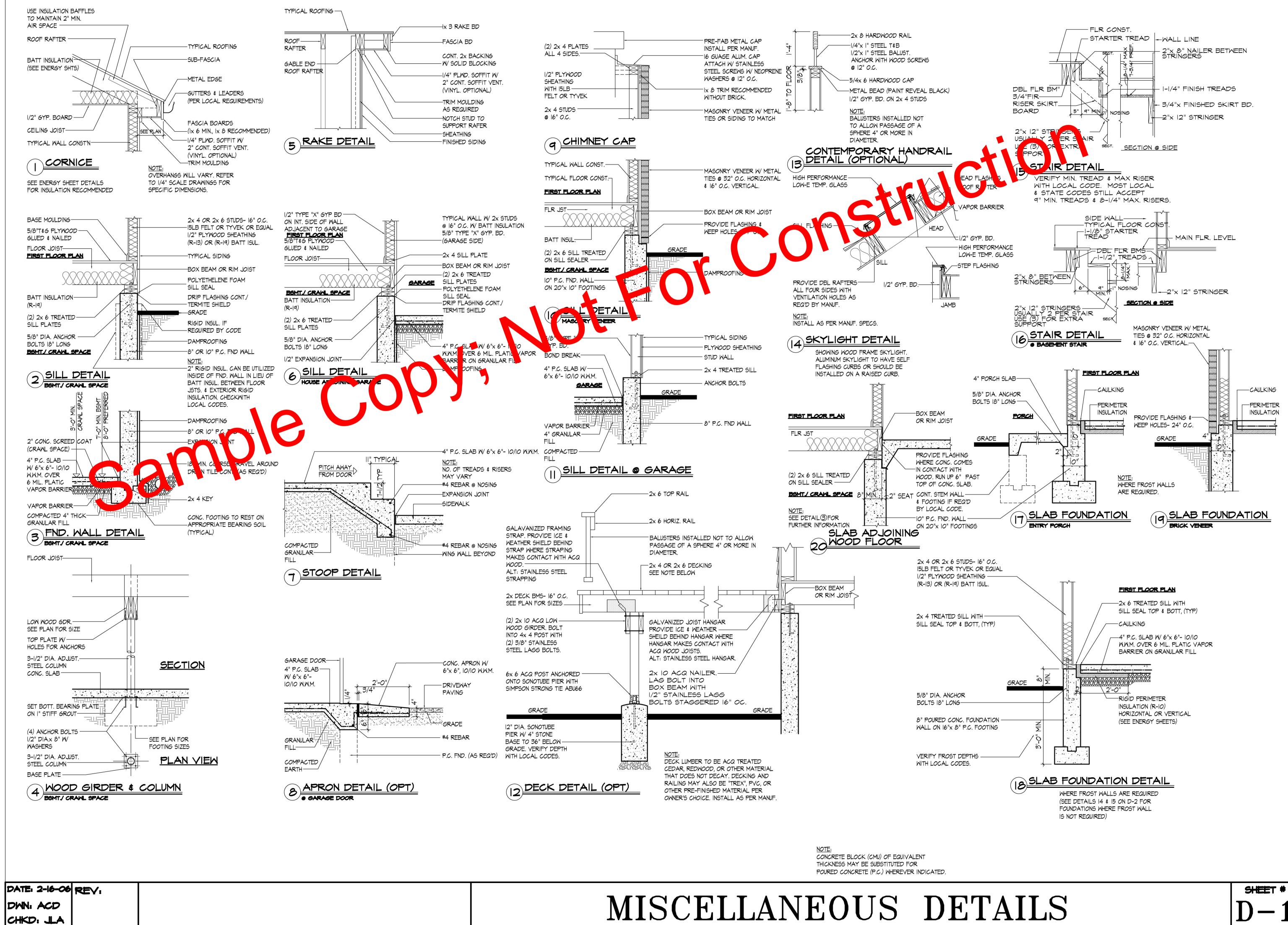
Buildings with combustible ceiling or roof construction shall have an attic access opening to attic areas that exceed 30 square feet and have a vertical height of 30 inches or more. The rough-framed opening shall not be less than 22 inches by 30 inches and shall be located in a hallway or other readily accessible location. A 30 inch minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See

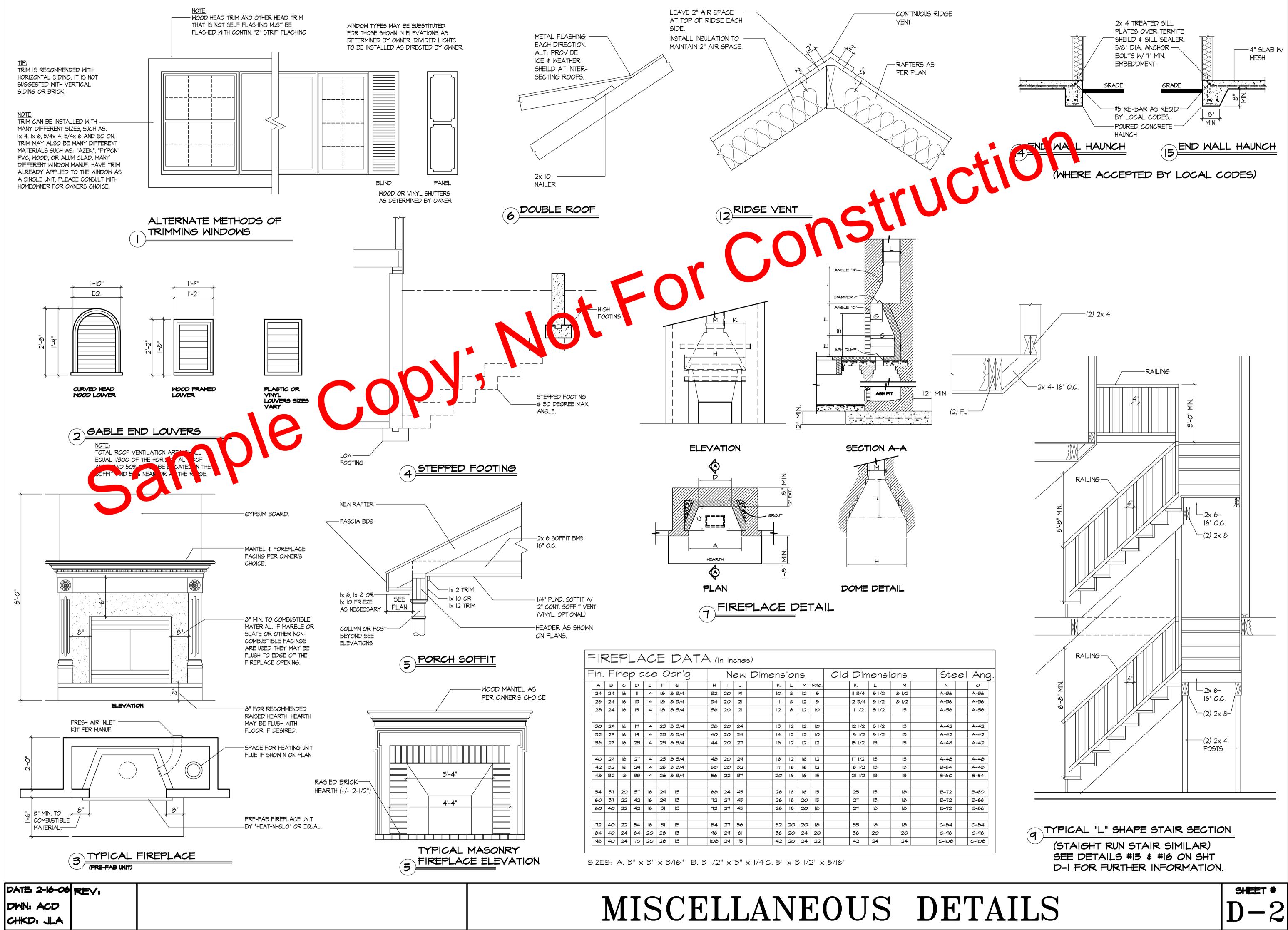
section M1305.1.3 for access requirements where mechanical equipment is located in attics

Automatic Fire Sprinkler Systems R313 R313.2 Automatic Fire Sprinkler Systems

Shoudl your local Jursidiction adopt the requirement for an automatic fire sprinkler system the installation shall be in accordance with IRC section P2904.

SHEET #





OUTLINE SPECIFICATIONS

FOR THE RESIDENCE OF

Address:

Date:

I <u>GENERAL</u>:

- 1. The contractor shall obtain and pay for all permits not yet obtained by owner and as required for the construction and shall provide the owner with a final survey and Certificate of Occupancy prior to final payment.
- 2. These specifications are to be utilized in connection with the drawings. In the event of conflict, these specifications govern.
- 3. All work shall be in conformance with these plans and specifications, the applicable Local and State construction and health regulations, and shall be performed in accordance with the best acceptable standards for the trades involved.
- 4. Where allowances are provided for herein, these refer to material costs only. All taker is to be included in the contract price. The owner shall have the right to provide these materials directly to the contractor. Allowances shall be reconciled at final payment.

<u>Note</u>: These specifications are general (for althouses). As such occasional conflicts with pre-drawn plans should be anticipated. Adjustmenter to these standards to adapt to local standards should be anticipated.

II <u>EXCAVATION:</u>

Topsoin cleared area to be removed and stored for reuse.

A organic material (peat, bog, etc.) within the house excavation is to be removed prior to installation of the footings. Contractor shall assume that no such material exists, but shall provide a unit price for removal should it be encountered.

- 3. No wall footing is to rest on fill or organic soil, but must be carried to undisturbed sand or gravel.
- 4. Fill areas under slab to be mechanically compacted and tamped.
- 5. Basement slab to rest on 4" minimum of clean sand or gravel.
- 6. Final grade must slope away from the house. A positive drainage swale is required where the adjoining grade is higher than the foundation.
- 7. Owner to approve stake-out of home prior to excavation.
- III <u>CONCRETE:</u> [Adjust to your local standards and include reinforcing, if required] 1. All concrete to be minimum 3,000 lb. - 28 day test.
 - 2. Footing pour must be continuous and poured stiffly.

- 3. Should a break in pouring be required in the foundation walls, it shall not be horizontal, nor vertical, but on a diagonal, and it shall be roughed up prior to the next pour.
- 4. Garage and entrance platform slabs to have 6"x 6" #10 x #10 wire mesh throughout, float finish. Basement slab should be steel trowelled smooth.

III A CONCRETE BLOCK FOUNDATION

- Hollow concrete block foundation walls may be substituted for poured concrete as follows:
 - a. Slab-crawl space 8" block walls on 16"x 8" footing.
 - b. Basement 10" block walls on 20"x 10" footing.
 - c. Brick veneer 12" block walls on 24"x 12" footing.
- 2. Top course to be solid block.
- 3. Reinforcing rods and footing dowels are to be provided if called for by local code and/or soil conditions.
- 4. Provide ¹/₂" anchor bolts, 18" long 8'- 0" o.c. maximum.

IV <u>TERMITE PROTECTION:</u>

1

VI

- The following is to be provided as a separate price:
 - a. Soil poisoning with approved chemicals prior to and during backfill.

V BRICKWORK/ STONEWORK/ STUCCO:

- 1. 4" Face Brick Veneer as shown on exterior and fireplaces. Brick to be now led color, chosen by owner. Provide an allowance of \$500 per thousand.
- 2. Window trim, casings and quoins to be simulated stone as shown on drawings.
- 3. Provide an alternate credit to change all cin, casings and quoins to brick.
- 4. Stucco area to be a Drivit Sprint" system installed per manufacturers specifications, or equal.

LUMBER and KAMING: [Local standards may apply]

An onstruction lumber to be Douglas Fir-Larch-North #2 or better. Studs to be Kiln-dried. Utility lumber may be utilized for blocking, catting and sills and plates only. Bottom sill plate to be "CCA" treated or "wolmanized".

- 2. Wall sheathing to be minimum 1/2" DFPA 24-0.
- 3. Subflooring to be 5/8" DFPA 32-16 exterior glue, nailed with screw type nails and glued to floor beams.
- 4. Roof sheathing to be minimum 1/2" DFPA 24-0 exterior glue, supported on all edges.
- 5. All girders or posts to be free of large knots or other visual imperfections.
- 6. All deformed, twisted, or otherwise defective studs or ceiling beams to be removed or doubled prior to interior finishing.
- 7. Double all studs on openings over 5 ft., triple studs over 9 ft. openings.
- 8. Headers not marked on plans to be (2) 2" x 6".

VII <u>STEEL:</u>

- 1. Steel girders to have 1/4" bolt holes @ 4'- 0" o.c., predrilled in top flanges. All steel connections, supports, etc., to be sized by steel fabricator in accordance with approved standards. Steel to be shop fabricated from approved shop drawings. Steel girders to be shimmed with steel plate only, fabricator to provide steel shims. See floor plans for size(s).
- 2. Loose steel lintels over brickwork to be provided as per sizes in general notes.

VIII FASCIA, TRIM, EXTERIOR SIDING:

- 1. Exterior trim and fascia to be #2 pine clad with pre-finished white aluminum. Seams to be tight.
- 2. All soffits to be pre-finished ventilated white vinyl.
- 3. Siding to be 1"x 6" clear beveled cedar siding with a 4" exposure. Corners to be mitered. [vary to suit your project]

IX <u>ROOFING:</u>

- 1. Roofing to be GAF Timberline, 40 year warranty heavy weight fiberglass shingles, or equivalent, in a color chosen by owner, over 15 lb. asphalt saturated felt. Double felt on slopes under 3 in 12.
- 2. Provide "Dupont Ice-Shield" or equivalent in lieu of felt, at all eaves and valleys, and on roofs adjoining higher walls, per manufacturers specifications.

X WINDOWS AND FRENCH DOORS: [Adjust to your local standards]

- 1. All windows and French doors to be "Andersen" white pre-finished casement fixed, circle-top, etc., with extension jambs as indicated on plans. All windows to have "bow-F" insulated glass and removable screens for all operable sash and doors. Windows to be set square and plumb, racking of large frames to be prevented. Casements to include min handles. Provide grilles for all windows and doors and interior casings and plinths for efficience-tops.
- 2. Fixed transoms in breakfast room to be manufactured by New Morning Windows to match the Andersen unite below.

XI <u>DOORS</u> From doors to be solid core wood as chosen by owner. Provide an allowance of \$2,000.

- 2. Interior French doors to be oak veneer, full glazed single pane 15 or 18 lites with brass hinges and hardware.
- 3. All other interior doors to be pre-hung 6 panel pre-primed "Masonite Legacy" or equal. Provide privacy latches for all bedrooms and bathroom doors.
- 4. Door from house to garage to be steel clad, urethane core with spring closer.
- 5. Front, rear and garage entry doors to be keyed alike with "Baldwin" or "Schlage" or equivalent locks.
- 6. Garage doors to be pre-finished vinyl coated steel in a style chosen by owner.

XII <u>INSULATION:</u>

- 1. Wall insulation to be 6" (R-19) Fiberglass Batts for 6" walls or 4" (R-13) for 4" walls. Contractor to install a .004" polyethylene vapor barrier over, on room side.
- 2. Ceiling insulation to be 8 1/4" (R-30c) or 9" thick Fiberglass Batts, (R-30) see plans. Contractor to install a .004" polyethylene vapor barrier over, on room side.

- 3. Provide an optional price for 12" (R-38) in all flat ceilings.
- 4. Insulation in basement ceiling to be 6" (R-19) batts.
- Insulation in ceiling of garage to be 8 1/4" (R-30c) fiberglass batts. 5.

DAMPROOFING, WATER PROOFING, FLASHING XIII

- Metal flashing shall be 26 ga. aluminum and shall be installed at all door sills, where porch slabs abut wood framing, and all step and counter flashing.
- 2. All openings are to be flashed with either metal or a fabric flashing.
- 3. Membrane waterproof foundation below grade as follows: One coat of trowelled asphalt, one roll of 15 lb. asphalt saturated felt with a minimum lap of 12" and a final coat of trowelled asphalt.

DRYWALL: XIV

- All house walls and ceilings to be covered with 1/2" gypsumboard, all joints to be taped and spackled. 1 Nail holes and joints to receive three coats of spackle and sanded smooth in preparation for paint. Adequate drying must occur between coats. Garage and utility room to be fully sheetrocked with 5/8" type "X" gypsumboard, nail holes and joints to receive three coats of spackle and sanded smooth.
- 2.
- 3.
- All outside corners to receive metal corner beads. Drywall under tile over tub to be waterproof grade. Joints in drywall are to be avoided over window and door edges. Joints to occur at middle of openings. 4.

XV **INTERIOR TRIM:**

- vide colonial casing clear line, per owners choice. Window and all door trim to be 3 18 1.
- Closets to be trimined the continuous 1"x 2" cleat and one 12" wide shelf, maximum span between 2. braces of 3', ma a wood closet pole, unless otherwise indicated on plans. Linen closet to receive 5 fail to be shown on the second s had master bedroom closets as per owners direction.
- Baseboard to be 6" high colonial on 1st floor, 3 1/8" high on 2nd, basement per owner. 3
- 4. Provide 6" wide crown molding in Living Room, Dining Room & Library per owners selection.
- Interior columns to be unfluted Roman Doric wood columns on wood bases by Chadsworth or equal. 5.

XVI **STAIRS:**

- Rear staircase and both basement stairs to be oak risers, treads and stringers. Provide oak handrails on 1 these stairs one side.
- Main staircase to be oak risers and treads and exposed stringer. Railing to be 1" turned painted 3. colonial pickets and oak handrail and same rail is to be used at balcony and office.

XVII **PLUMBING:**

- 1 All underground waste lines shall be cast iron. Wastes above ground to be approved plastic DWV. Sizes to be shown on plans.
- 2. Water mains shall be 1" copper. Branches shall be copper, 5/8" minimum. Hot water lines to be copper type "L".

- 3. There shall be shut-offs provided for each bathroom and the kitchen and each sink and water closet. All exposed piping in bathrooms to be chrome plated.
- 4. Domestic hot water to be provided from a 60 gallon oil or gas, glass lined, domestic hot water heater, Bock or equal.
- 5. Materials and methods shall be in accordance with local codes.
- 6. A water test shall be completed prior to installing drywall.
- 7. Fixtures shall be Kohler as per the schedule below, in white unless noted otherwise. Provide Kohler toilet seats and other accessories by Kohler, unless otherwise noted. The following are basic, entry level fixtures. Depending on your job you may well choose to upgrade them.

<u>KOHLER</u> MODEL #	DESCRIPTION	<u>1999</u> LIST PRICE						
K-3423	Wellworth two-piece Round Front	\$156.65						
K-715/6	Villager 5' Cast Iron Tub	\$478.45						
K-1250/1	Mainsail 5' Vikrell Tub	\$150.00						
K-2202	Brookline China Lav. 19" Round	\$ 82.00						
K-2905	Farmington CI Lav. 19 1/4"x 16 1/4"	\$ 95.00						
K-3348	Toccata 25"x 22" Stainless Steel 20g.	\$123.60						
K-5964	Mayfield 25"x 22" Cast Iron Sink	\$2895						
	ded fiberglass.							
l be Kohler. Prov	ide an allowance of \$1500							
PLACES:								
	MODEL # K-3423 K-715/6 K-1250/1 K-2202 K-2905 K-3348 K-5964 es shall be pre-mol l be Kohler. Prov	MODEL #DESCRIPTIONK-3423Wellworth two-piece Round FrontK-715/6Villager 5' Cast Iron TubK-1250/1Mainsail 5' Vikrell TubK-202Brookline China Lav. 19' RoundK-2905Farmington CI Lav. 19 ¼''x 16 ¼''K-3348Toccata 25''x 22'' Stainless Steel 20g.K-5964Mayfield 25''x 22'' Cast Iron Sinkes shall be pre-molded fiberglass.I be Kohler. Provide an allowance of \$1500						

XVIII FIREPLACES:

- Living room fireplace to be brick chief with ash pit, clean out, damper and terracotta flue. Hearth to Ι. be flush marble. Surrounds to be marble with a wood mantel.
- ce to be 42" wide pre-fab by Heat-N-Glo. Hearth to be flush slate. Surrounds to be 2. Family topp fi stone veneer to ceiling. irec

XIX **HEATING & AIR-CONDITIONING:** [Local adjustments are likely necessary]

- Heating shall be Oil fired fan/coil warm air and central conditioning system with adequate heat supply to each room to provide (70 degrees F) inside when outside is (0 degrees F). System shall be in four zones. Each zone to have a separate fan-coil unit located near the zone to be served. Provide an Oil fired hot water boiler adequate to supply hot water to all zones. System to include adequately sized return ducts to minimize noise. (max. 700 CFM). A power humidifier is to be installed on the warm air return of each blower. Air-conditioning to be designed to provide (75 degrees F) inside when outside is (90 degrees F).
- 2. Installation to be in accordance with local codes. National Board of Fire Underwriters, and manufacturers instructions.
- 3. Install ductwork to vent range, barbecue and dryer to outside plus bath exhaust fans in every bathroom.
- 4. Provide two 275 gal. oil tanks in the basement.
- 5. Contractor to provide heating duct layout and list of equipment for owner's review prior to installation.
- 6. Thermostats to be digital 7 day programming for simultaneous heating and cooling.

XX **ELECTRICAL:**

- Provide 200 amp. service with main panel with circuit-breakers, silent mercury switches and outlets as 1 per code. All charges to be paid by contractor, including all charges for underground service.
- The contractor shall provide the following fixtures and equipment and shall install same: 2.
 - (25) 75w Hi-hats per owner's direction with dimmer switches at each a. location.
 - (5) Basement pull chains and 2 flush fixtures in garage. b.
 - c. (4) Motion sensor outside floods with over-ride switch for each.
 - d. (3) Shower lights.
 - e. (5) Jamb switches to walk-in closet lights as indicated.
 - 3-Way switching to kitchen, mud room, foyer, balcony, garage, library, rear f. staircase, basement stairs.
 - g. Switches for all fixtures as required.
 - h. Front and rear door chimes.
 - Exhaust fans in each bath. i.
 - 0 Addt'l wall outlets beyond code per owners location. j.
 - k. 2 Floor outlets in family room.
 - Separate circuit for rear yard line. 1.
 - m. Separate circuit for driveway lighting.
 - Wiring for 6 telephone outlets and 6 cable TV outlets. n.
- 3. The owner shall provide and the contractor shall install the following:
 - a.
 - b.
- (+) Outside wall fixtures. Hanging fixtures in foyer, dining room, breakfaster on unit basement kitchen. Wall fixtures in each bathroom. (4) Wall sconces a.
 - d.
 - d.
- The contractor shall provide and install a generator that provides back-up power for heating and basic 4. lighting.

shall provide and install the following:

a. Intercom system.

- b. Alarm system.
- 6. Contractor to provide wiring for dishwasher, ovens, cooktop, dryer, garage door operators, refrigerator, freezer, and all equipment listed in XXXII.
- 7. All wiring to be in accordance with the National Board of Fire-Underwriters and a certificate of inspection of the local agency shall be issued prior to final payment.
- 8. No aluminum wiring is to be used, or plastic boxes.

XXI **CABINETS, MEDICINE CABINETS, MIRRORS:**

- An allowance of \$25,000 shall be provided for kitchen cabinets and tops, and vanity cabinets and tops 1. and butlers pantry cabinets and tops.
- An allowance of \$2,500 shall be provided for bathroom mirrors and medicine cabinets of owners 2. choosing.

XXII HARDWARE:

An allowance of \$2,000 shall be provided for brass door knobs and miscellaneous hardware of owners 1. choosing.

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XXIII CERAMIC TILE:

- 1. Floors of baths and entire master tub platform shall have non-slip mosaic tile, set in "mud" and a 6" high tile base.
- 2. Walls of tub/showers and shower stalls shall have glazed tile extending to the ceiling.
- 3. An allowance of \$5.00 per sq. ft. for material shall be provided for the owners choosing for all areas except master bath where the allowance shall be \$6.00 per sq. ft. for 12"x 12" floor tile and coordinating wall tile.
- 4. Floors of foyer, powder room, lavatory, kitchen, 1st floor hall, pantry and laundry to receive 16"x 16" tile set in mud. Provide an allowance of \$6.00 per sq. ft. for material. Provide oak saddles as required.

XXIV FLOORING:

- 1. Living room, dining room & Library to receive #1 oak strip flooring. Floors to receive one coat of stain and satin polyurethane finish.
- 2. All other areas not receiving tile or oak to be carpeted over 1/2" underlayment screwed to subflooring. Provide an allowance of \$30/ sq. yd.

XXV PAINTING AND DECORATING:

- 1. All paint to be Benjamin Moore.
- 2. All siding is to receive one coat of latex siding paint.
- 3. All interior trim to be painted with 2 coats of latex semi-gloss enamel paint over an enamel primer.
- 4. Interior walls and ceilings to be painted with one coat latex incolors of owners choosing, over a prime coat.
- 8. Natural wood doors and wood trim to receive one coat of solid stain and high gloss finish, except as directed otherwise by owner.

XXVI EXTERIOR DECKS: COVI

1. Exterior word decks to receive 5/4"x 6" cedar decking over CCA beams. Railing to be cedar, to be printed whee.

Rear terrace to be slate flagstone over 4" concrete slab.

XXVII WALKS, DRIVEWAYS & LANDSCAPING:

- 1. Topsoil removed during construction to be spread on disturbed areas around house and shall be fine graded by machine, hand raked of rocks and debris, and seeded with annual rye grass.
- 2. Excess fill, if any to be removed from site.
- 3. Driveway to be 2" asphalt over 5" recycled concrete base, with belgian block curbing.
- 4. All other paving and all landscaping to be by owner.
- 5. Front stoop and steps to be poured concrete, set to accept slate and brick by owner.

XXVIII GUTTERS & LEADERS:

1. Provide pre-finished seamless aluminum gutters and leaders in a color chosen by owner all around entire house, leaders to be piped to front and rear drywells.

XXIX SEPTIC SYSTEM, WATER:

- Provide a 1500 gallon septic tank and leaching system as required by local authority. System to be 1. approved by Local County Board of Health.
- 2. Connect to public water, if available, or provide a domestic water system for household use and sprinklers by installing a 4" well with a 1.5 HP submersible pump with a stainless steel screen to provide approx. 25 GPM water flow. Provide a "well - x - trol" #350 captive air pressure tank with approximately 32 gallon capacity with all brass fittings. System to be approved by Local County Board of Health.

XXX **MISCELLANEOUS EQUIPMENT:**

- Contractor to provide garage door operators, with built-in lights and two wall switches for each door. 1.
- 2. Contractor to provide a central vacuum system.

XXXI. GUARANTEES:

The contractor shall guarantee the foundation, plumbing, heating, roofing, structure, drywall, windows 1. and doors for a period of one year from the date of title and shall immediately rectify problems when called to his attention. Guarantees and warranties of manufacturers shall be passed on to owner.

XXXII APPLIANCES & MISCELLANEOUS BUILT-INS:

Auger h. Basement Refrigerator i. Basement Electric Ranger Sample