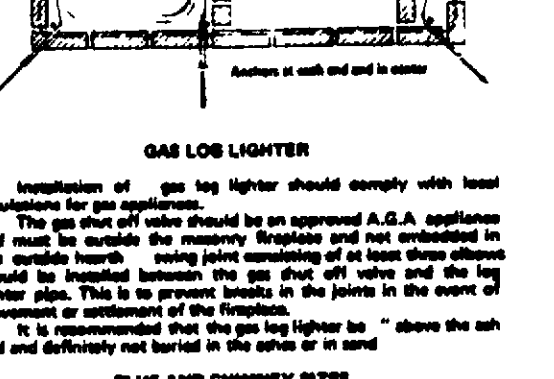
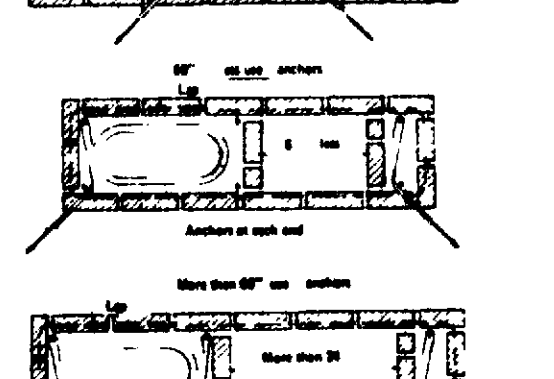
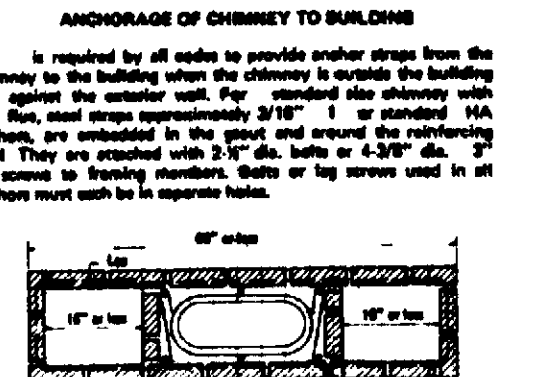
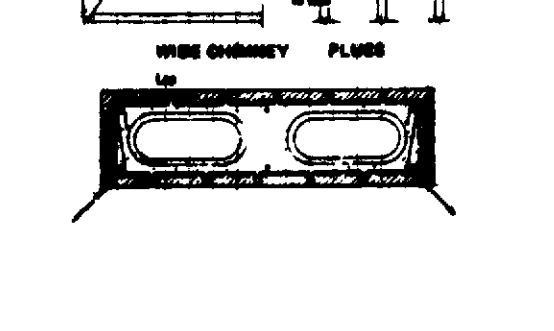
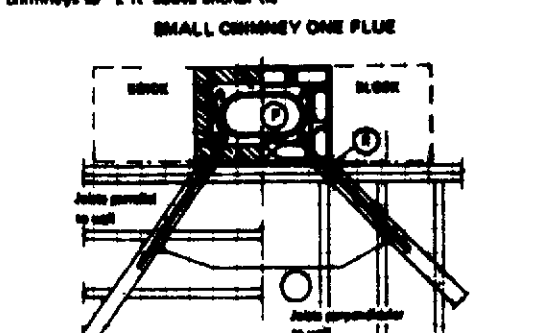


RESIDENTIAL FIREPLACE AND CHIMNEY CONSTRUCTION DETAILS AND SPECIFICATIONS

Drawn by: _____
 Title: _____
 Date: _____
 Name & Address - Owner: _____
 Name & Address - Contractor: _____
 Messages: _____
 Dimensions: _____
 Material: _____
 Notes: _____

EMERGENCY CONSERVATION REQUIREMENTS
 Masonry and heavy-duty fireplaces shall meet the following requirements:
 The masonry shall be reinforced with at least four #5 light weight reinforcing bars, one bar shall extend the full height of the chimney. The bars shall be laid horizontally at 18" intervals with not less than one bar in each corner. Two bars shall extend into the foundation or be embedded in concrete for a minimum of 8". Vertical reinforcement shall be placed approximately 6" above and below anchor bars.
 Continues burning gas pilot lights are prohibited.
 The use of indoor gas to heat the chimney shall be prohibited or vented to the exterior of the building is prohibited.

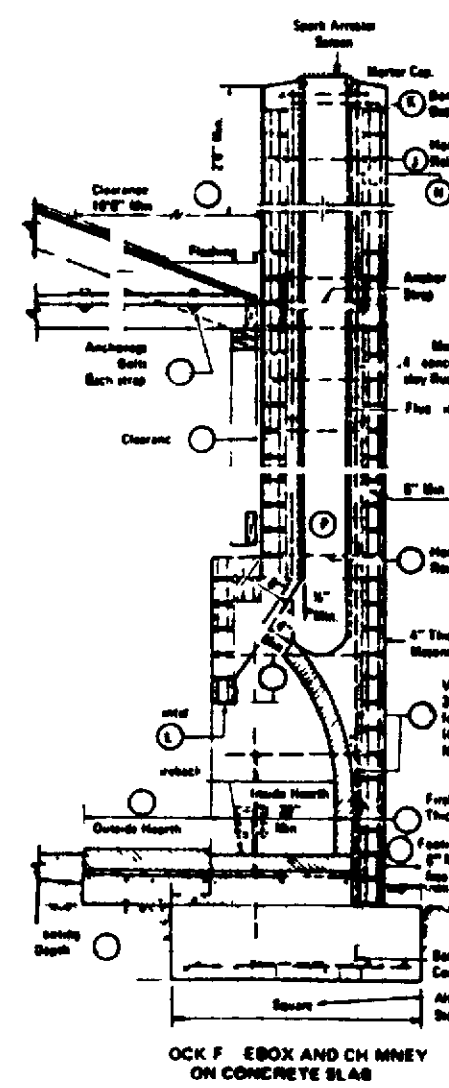
CHIMNEY REINFORCEMENT
 Every chimney shall be reinforced with at least four #5 diameter vertical reinforcing bars. The bars shall extend the full height of the chimney. The bars shall be laid horizontally at 18" intervals with not less than one bar in each corner. Two bars shall extend into the foundation or be embedded in concrete for a minimum of 8". Vertical reinforcement shall be placed approximately 6" above and below anchor bars.
 Where the width of the chimney opening is, in addition to a minimum vertical bar that be provided for each additional 40" in width or fraction thereof.
 The above reinforcement requirement will be adequate for chimneys to 8' in height unless otherwise noted.



Flue Size	Flue Size	Flue Size	Flue Size	Flue Size	Flue Size
12" dia	14" dia	16" dia	18" dia	20" dia	22" dia
10" dia	12" dia	14" dia	16" dia	18" dia	20" dia
8" dia	10" dia	12" dia	14" dia	16" dia	18" dia
6" dia	8" dia	10" dia	12" dia	14" dia	16" dia
4" dia	6" dia	8" dia	10" dia	12" dia	14" dia

The area of the fireplace opening is multiplied by the flue area ratio to obtain the minimum required effective flue area.
 The size of the masonry flue being provided should be equal to or larger than the required computed area.
PROBLEM: Find proper flue size for fireplace area for fireplace 48" wide by 30" high.
SOLUTION: Use 24" flue size.

SPECIFICATIONS
 The following specifications, including special items and materials, shall govern the construction of the fireplace and chimney.
 Masonry: Mortar shall be in accordance with ASTM C 270 Type S.
 Brick: Full body vitrified brick in accordance with ASTM B 21.
 Concrete: Portland cement concrete in accordance with ASTM C 1097.
 Steel: Structural steel in accordance with ASTM A 36.
 Glass: Glass in accordance with ASTM C 1048.
 Gas Logs: Gas logs in accordance with UL 148.

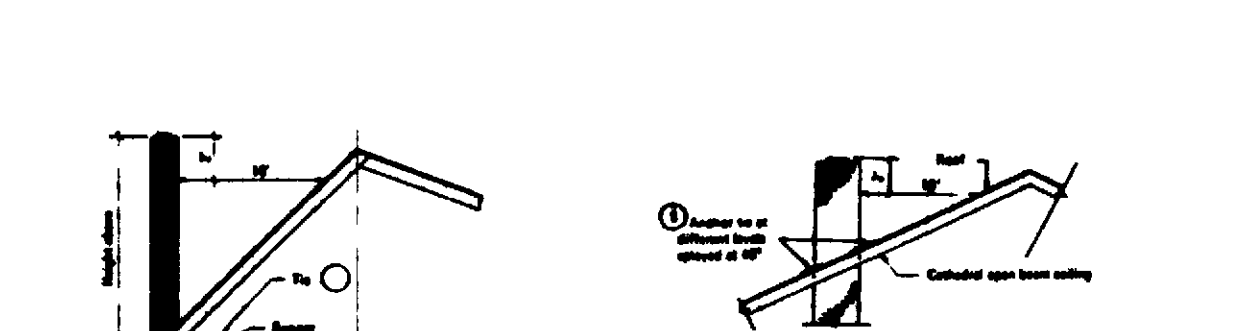
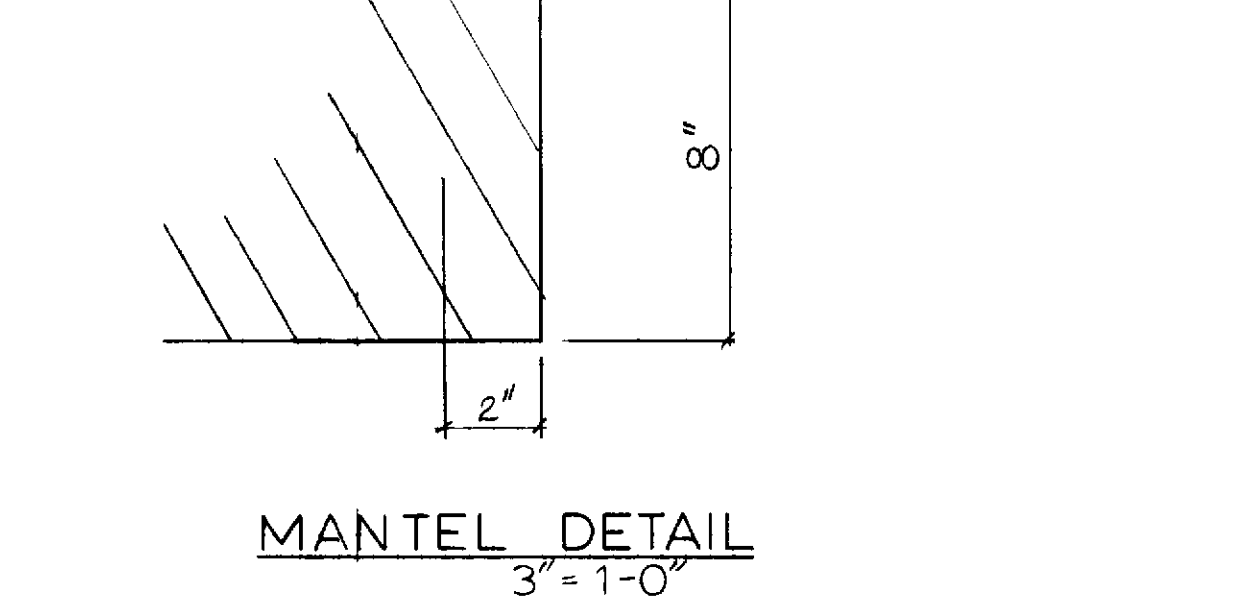
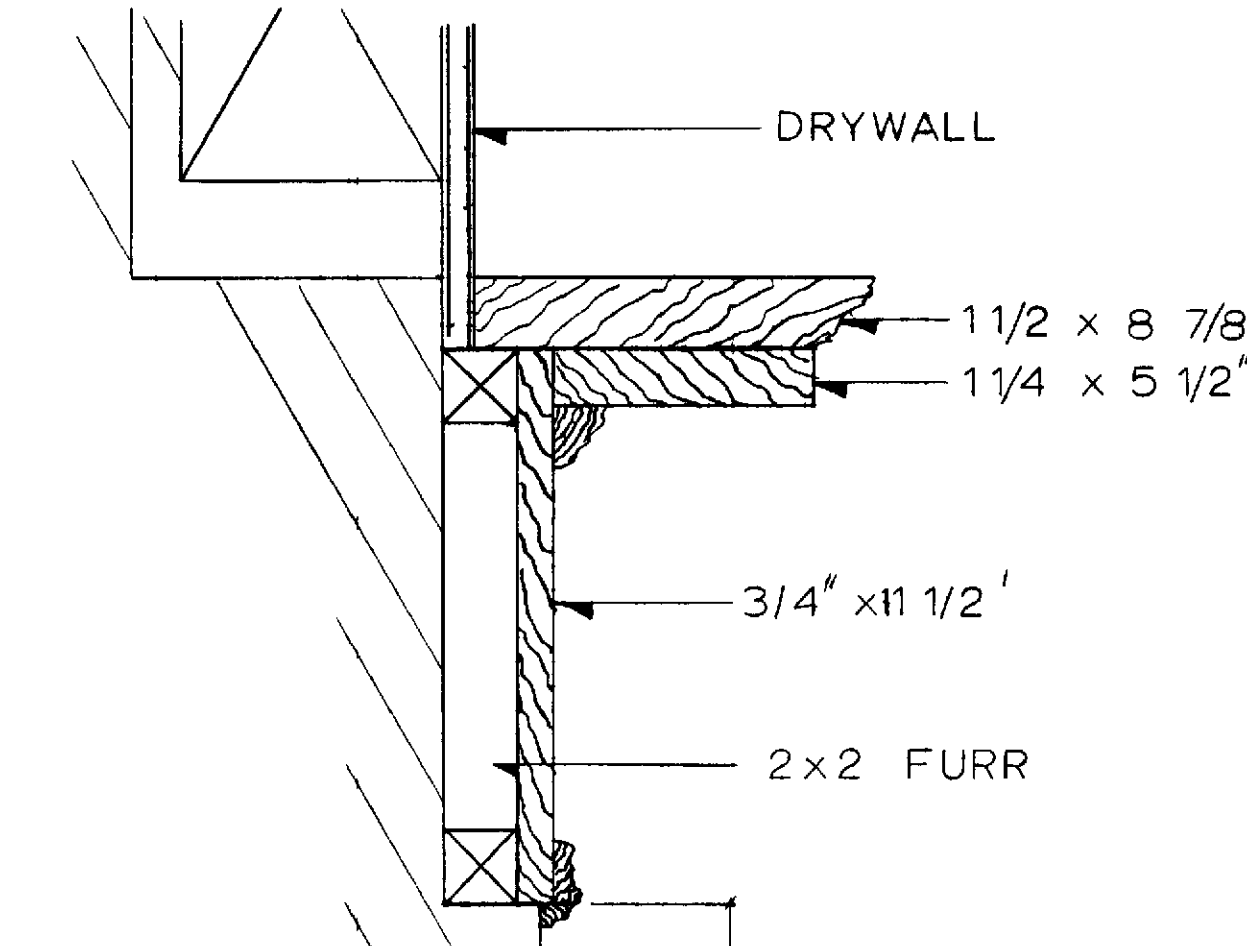


GENERAL CODE REQUIREMENTS

Code	Requirement	Notes
IBC	Fireplace shall be constructed of masonry or approved materials.	
IBC	Chimney shall be constructed of masonry or approved materials.	
IBC	Fireplace opening shall be protected by a fire-rated door.	
IBC	Chimney shall be reinforced with at least four #5 light weight reinforcing bars.	

GENERAL CODE REQUIREMENTS

Code	Requirement	Notes
IBC	Fireplace shall be constructed of masonry or approved materials.	
IBC	Chimney shall be constructed of masonry or approved materials.	
IBC	Fireplace opening shall be protected by a fire-rated door.	
IBC	Chimney shall be reinforced with at least four #5 light weight reinforcing bars.	

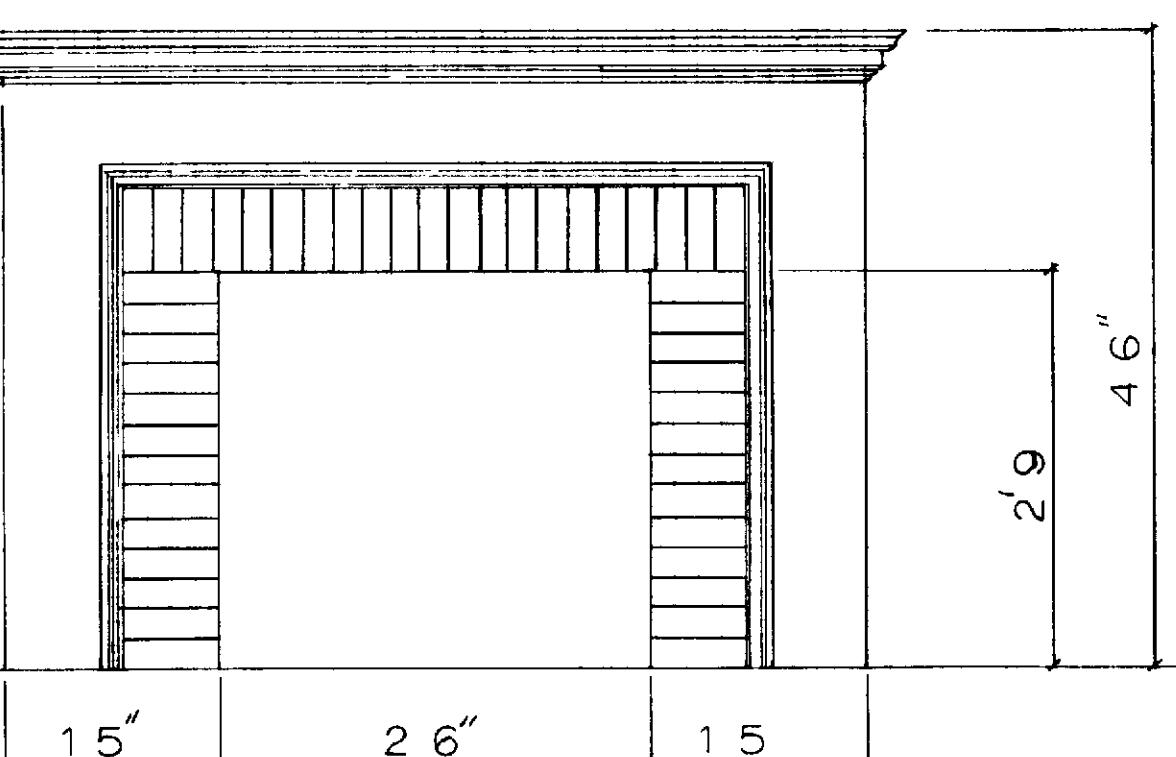
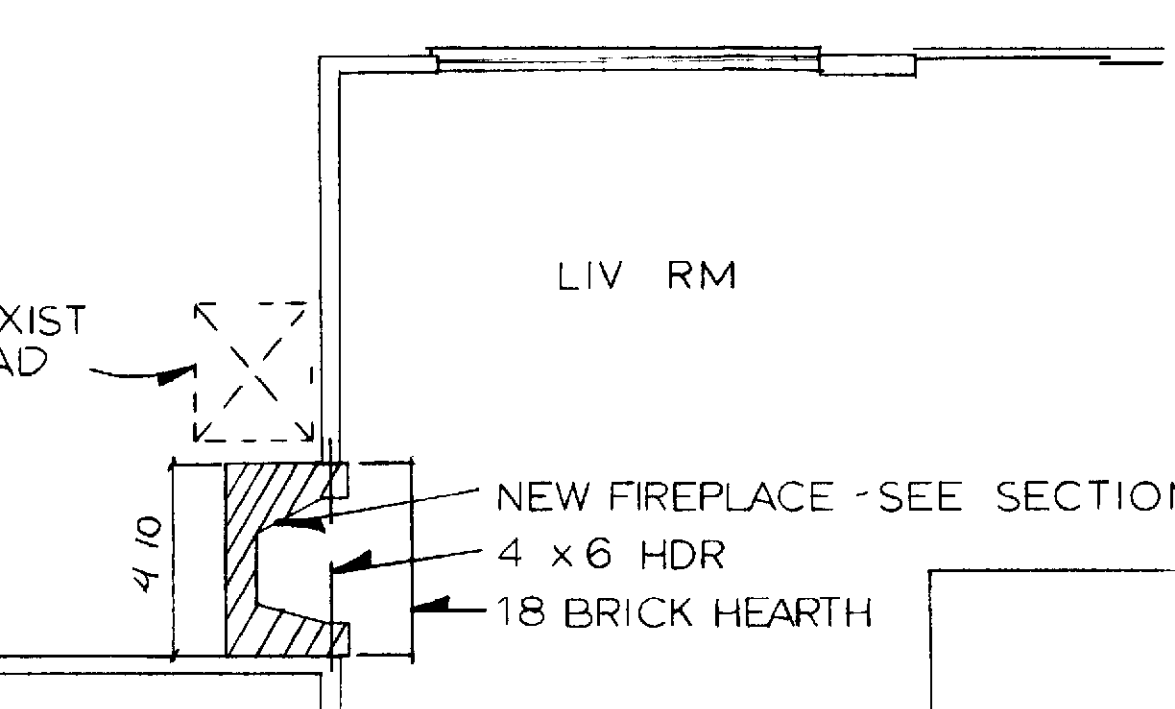
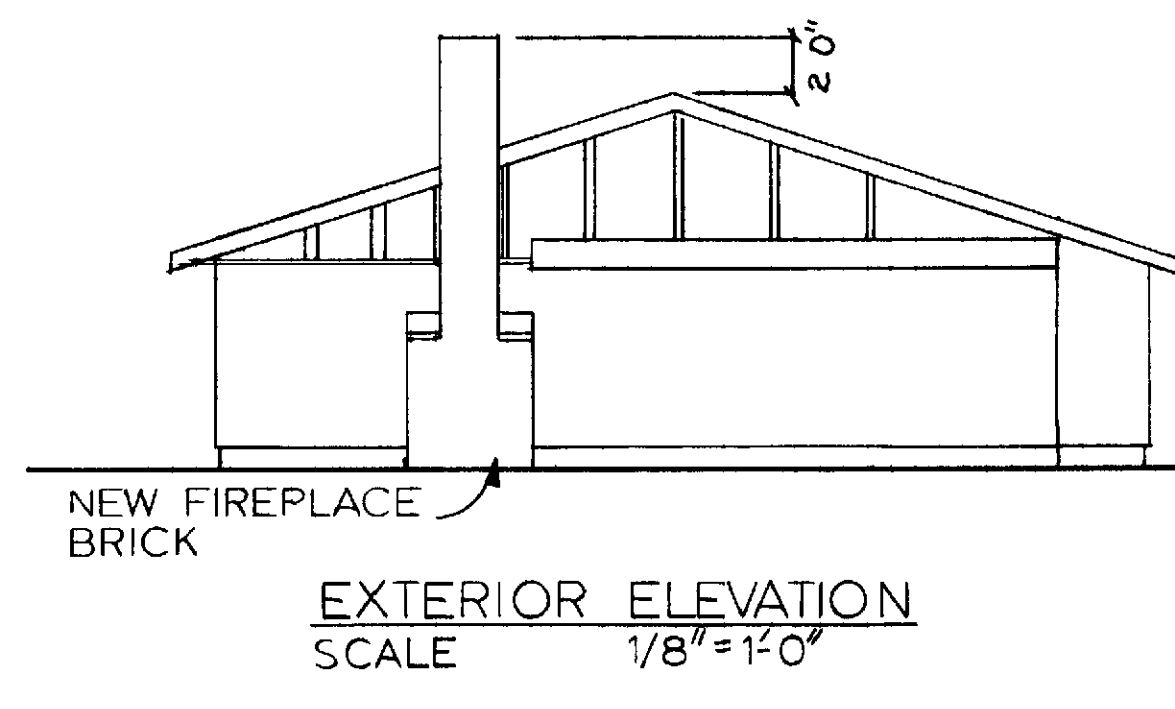
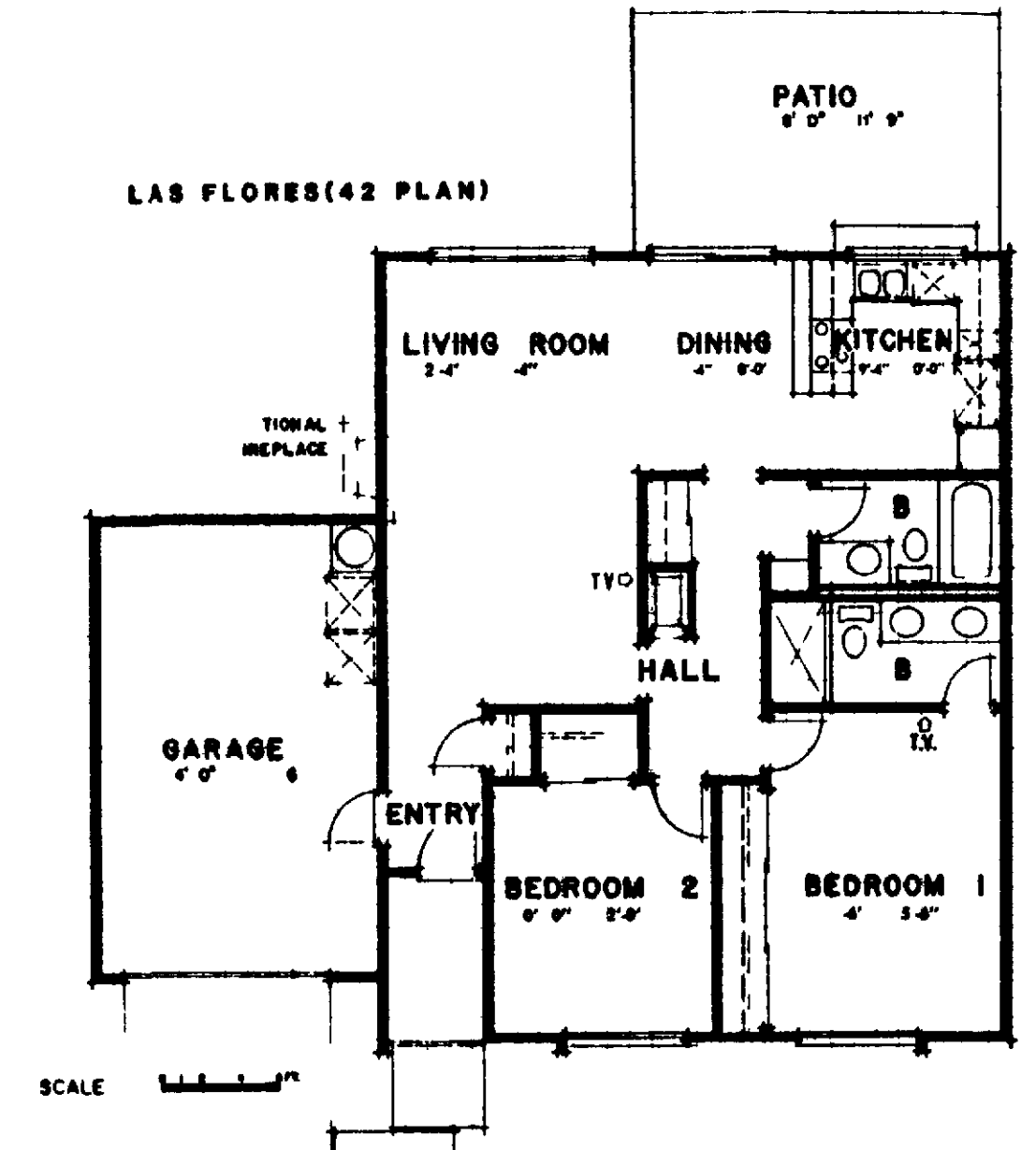


ANCHOR CONNECTION REQUIREMENTS FOR ALL CHIMNEYS

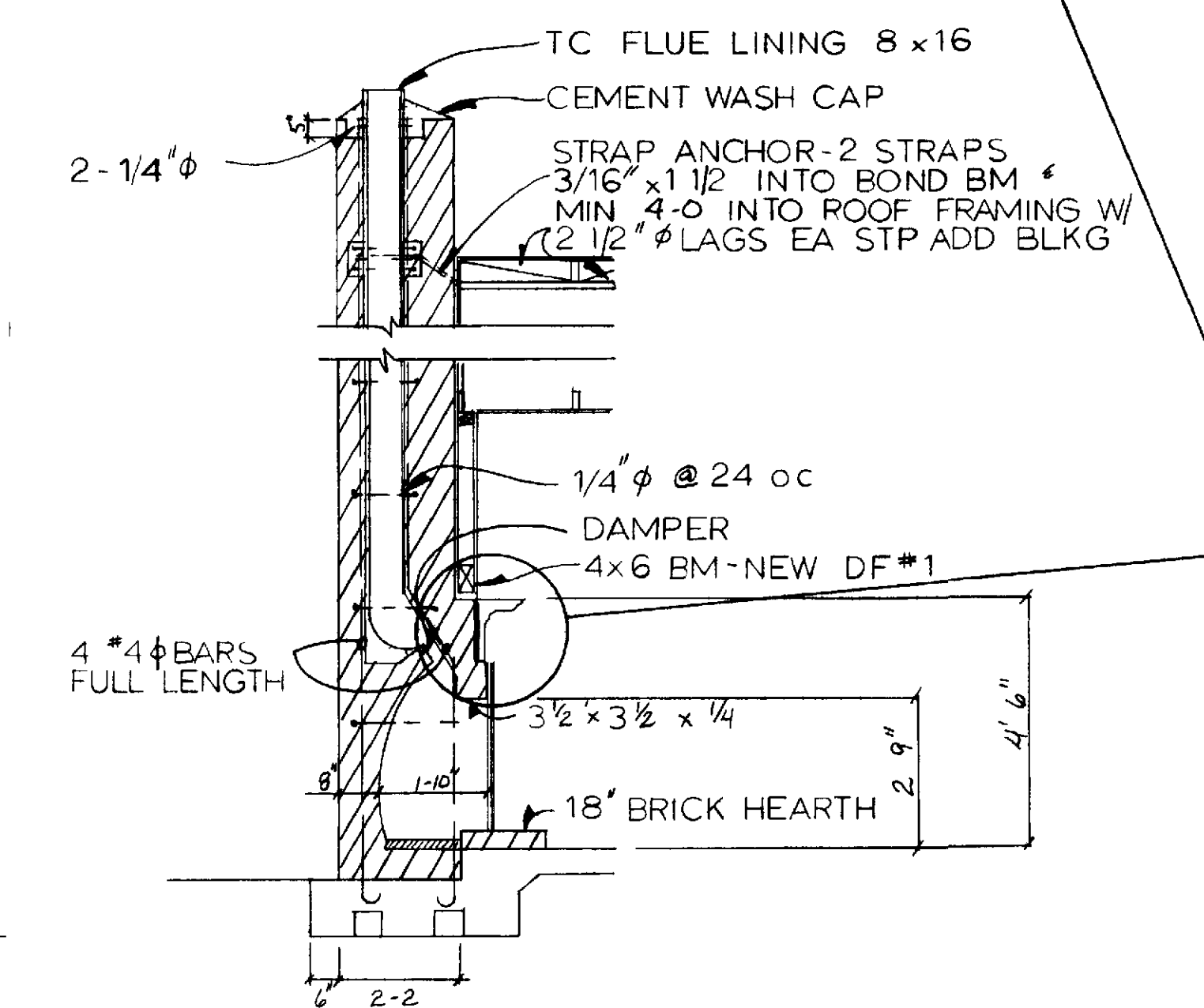
Anchor	Embedment	Spacing
1/2" dia	3" min	12" max
3/8" dia	2" min	10" max
1/4" dia	1 1/2" min	8" max

ALC PRIVATE FOUNDATION SCHEDULE FOR ONE STONE FIRE PLACEMENT

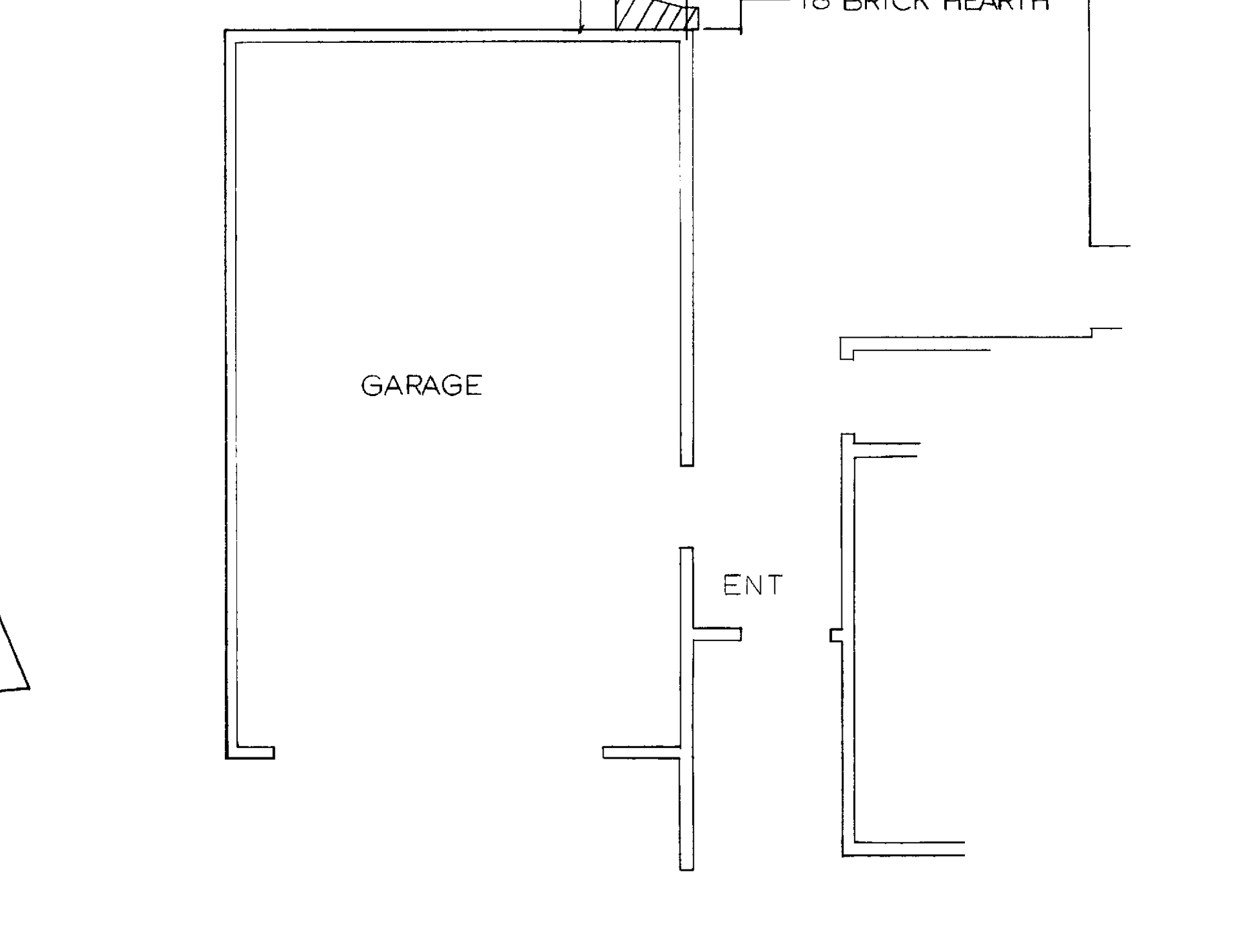
Flue Size	Foundation	Notes
4" dia	4" dia	
6" dia	6" dia	
8" dia	8" dia	
10" dia	10" dia	
12" dia	12" dia	
14" dia	14" dia	
16" dia	16" dia	
18" dia	18" dia	
20" dia	20" dia	
22" dia	22" dia	



FIREPLACE ELEVATION SCALE 3/4" = 1'-0"



SECTION 3/8" = 1'-0"



FLOOR PLAN SCALE 1/4" = 1'-0"

- GENERAL NOTE:** This drawing and specification and opt the set at 1/8" = 1' instrument of service for the owner. Professional Community Management, P.O. Box 222, Laguna Hills, CA 92653. (See map known as P.M.N.) Agent for Leisure World Laguna Hills California and authorized representative on the designated property only and shall retain the property if the designer. Unauthorized use is prohibited.
- County Address:** _____
- Track No. / Lot No.:** _____
- Insurance:** Cert in insurance(s) are required as outlined by the P.M.N. Permit and Inspection Department. Should they request such insurance the policy must be taken out in owner's name.
- Contractors, subcontractors:** The work of each trade shall be guaranteed by contractor.
- Cutting, patching, etc:** Each trade shall at all times do their own cutting, patching, fitting, etc. To make several parts come together properly fit and to receive or to be received by the work of other trades.
- Clean-up:** All trades shall at all times keep the premises free from accumulation of wet material or rubbish caused by their work. Contractor is responsible for removal of debris and excess material and must leave work areas broom clean both daily and upon completion of work. Use of community dumpster is not permitted.
- General:** All work shall comply with the current edition of the Uniform Building Code state and local code.
- General Release:** Each trade shall be held responsible for knowledge of general not a listed item or elsewhere within the drawings.
- Final:** All permits and plan check fee shall be taken out and paid for by the resident and/or his contractor.
- Inspection:** It is imperative that the contractor verify all dimensions and condition shown on the drawings at the job site prior to commencing construction and if from the P.C. Permit and Inspection Department if any discrepancy or conflict or omissions before beginning/proceeding with the work.
- Dimensional:** Dimensions have precedence over scale.
- Manufacturer's directions:** Where manufacturer directions/specifications are called for they shall be considered as part of these drawings.
- Construction:** The drawings and work performed shall at all times be governed by the applicable provision of federal, state and local law.
- Facilities:** Temporary toilet shall be provided per local authorities.
- Barriers:** Construction barricades if required shall conform to the requirement of local authorities. For safety the public shall be protected and/or shielded from the construction work/site at all times during the contract.
- Structure:** The structure is designed as a stable unit after all component parts are in place. Therefore contractor shall provide all shoring and bracing required to insure the stability and/or support of all part during construction.
- Standards:** All work shall be performed to the best standard practice of the trade. All contractor damaged work shall be replaced at the contractor's expense.
- Construction Materials:** All materials shall be of standard grade or better unless otherwise noted.
- Discrepancies:** Any discrepancies between plans building and local code requirements that may affect the installation, fabrication or overall work in any way shall be immediately brought to the attention of P.M.N. Permit and Inspection Department by the contractor.
- Work Hours:** No work shall commence prior to 8:00 a.m. and no work will be permitted after 5:00 p.m. Monday through Friday. Saturday work should be held to a minimum and no work whatsoever on Sunday.

FIREPLACE ADDITION
123
 42 PLAN
 DRAWN BY CHRIS GUIDRY
 CHECKED BY SAM CROSLAND
 DATE (3/10/89) 8/18/93
 Professional Community Management
 LE SURE WORLD - LAGUNA HILLS
 PERMITS & INSPECTIONS DEPARTMENT