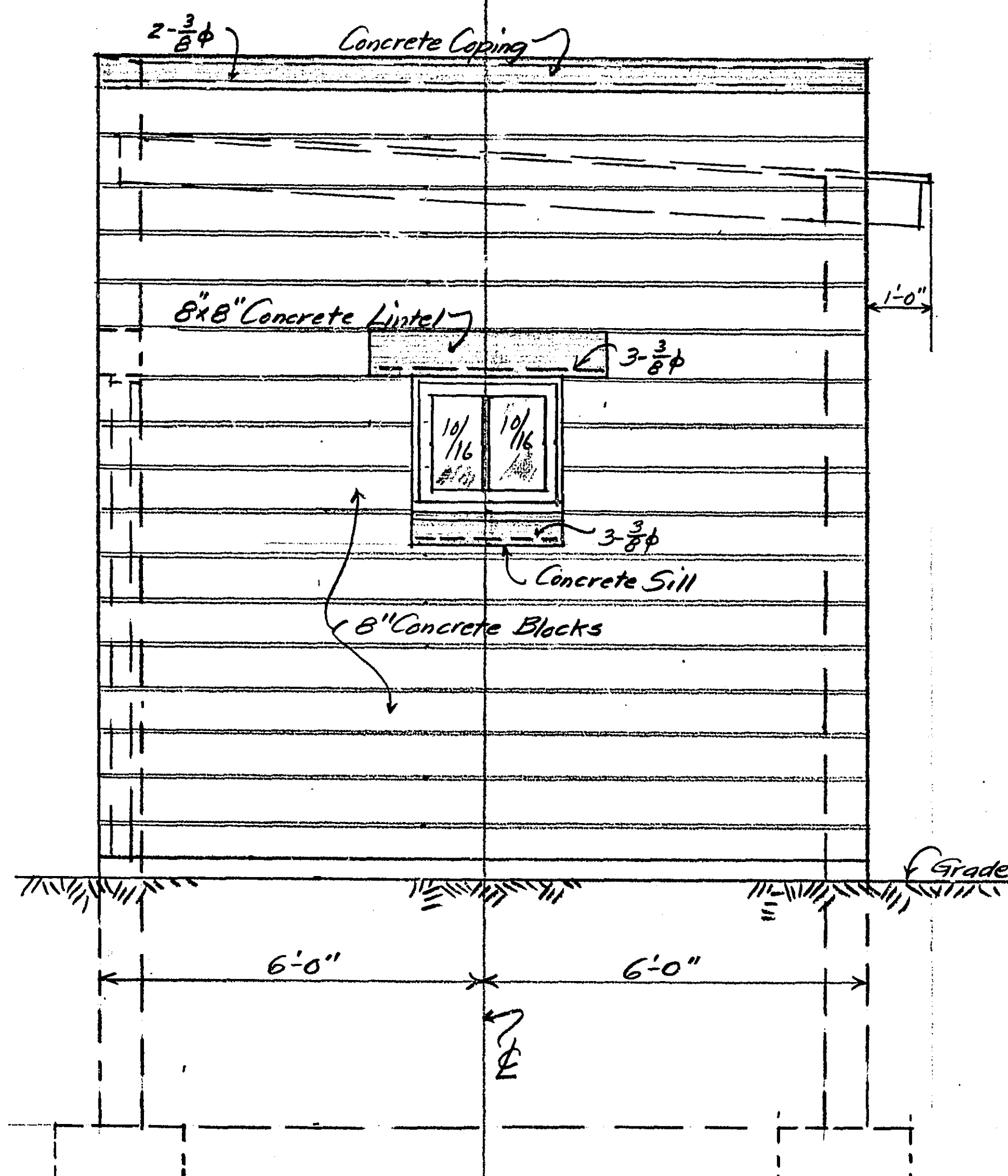
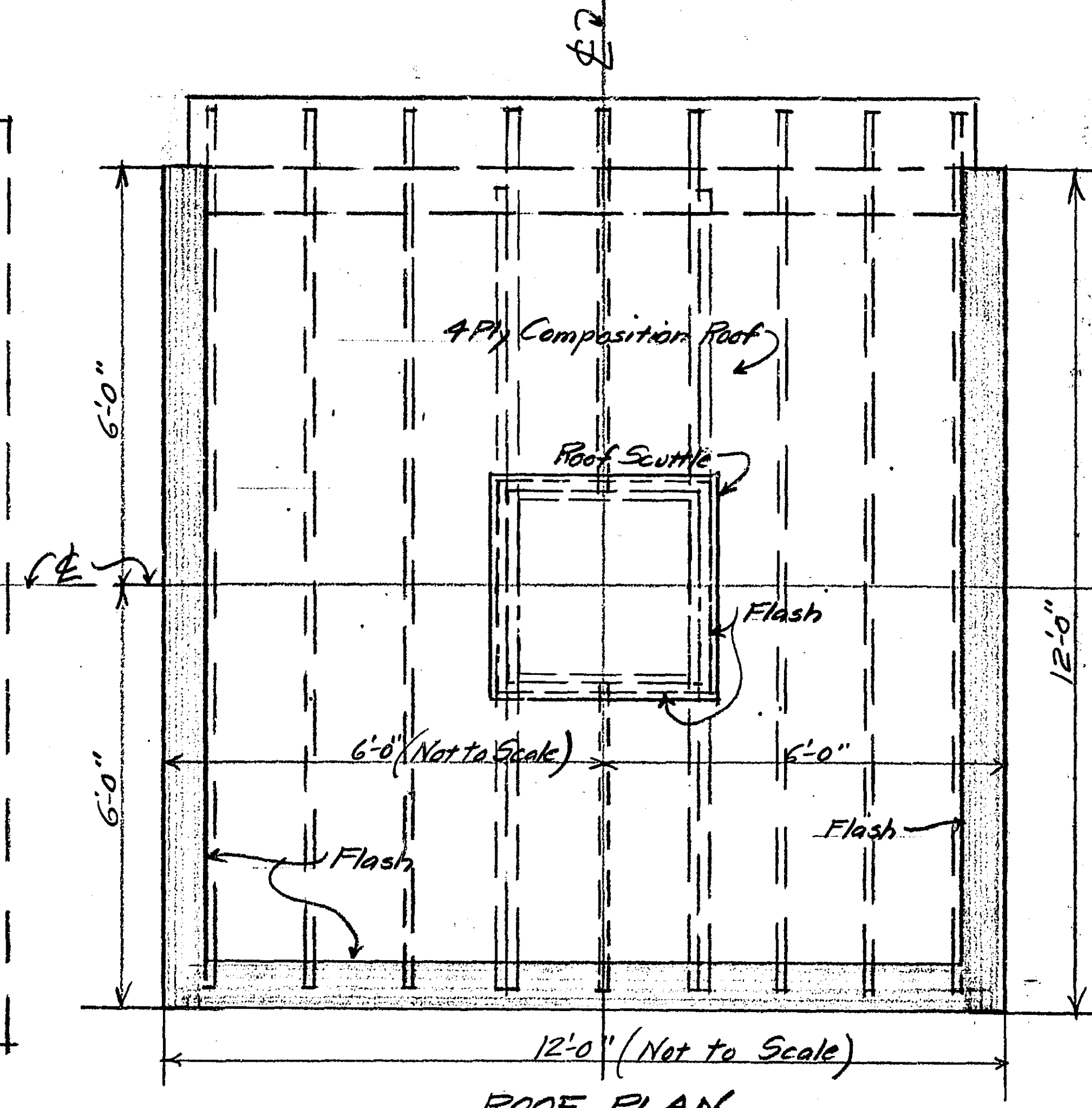
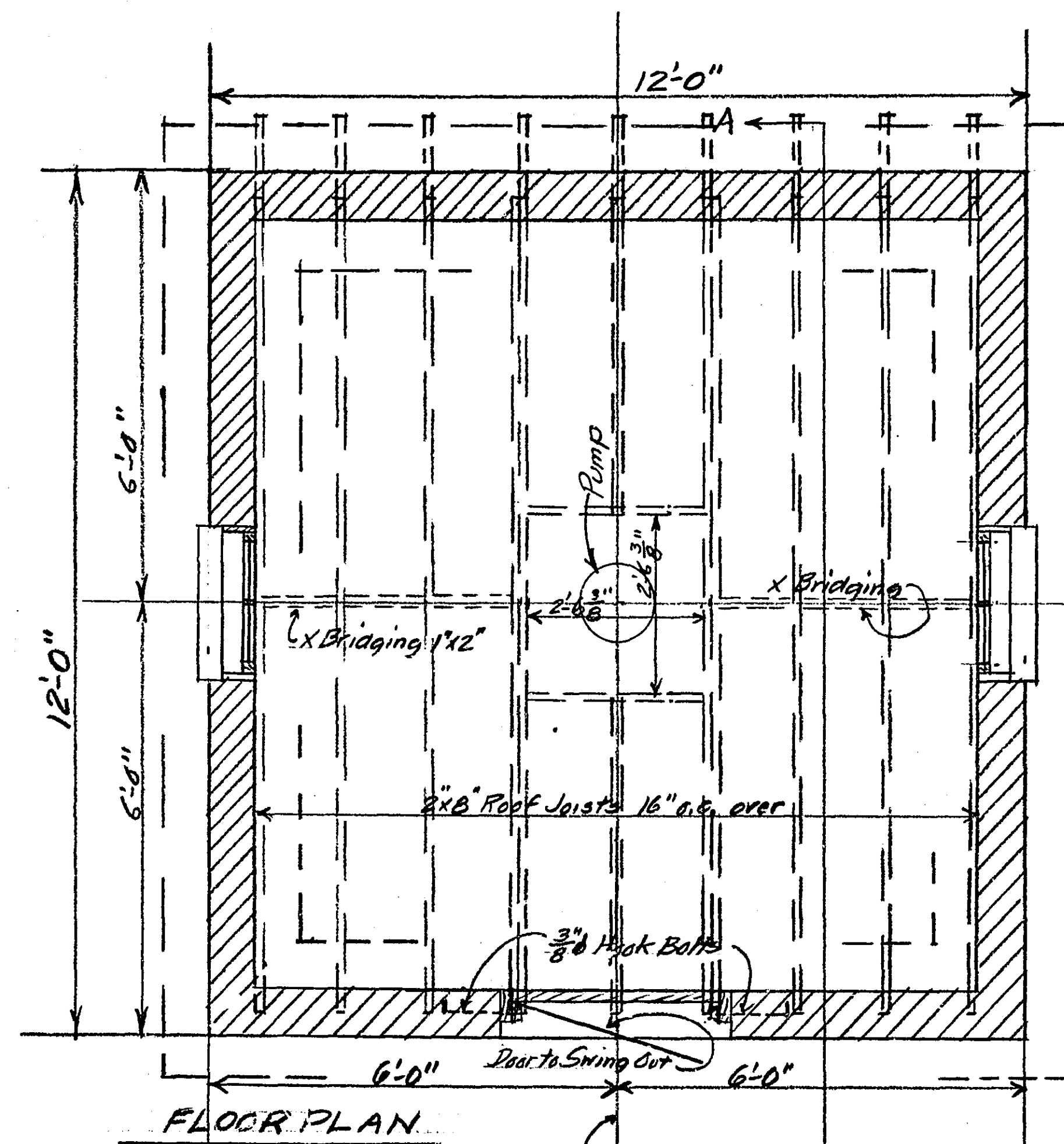
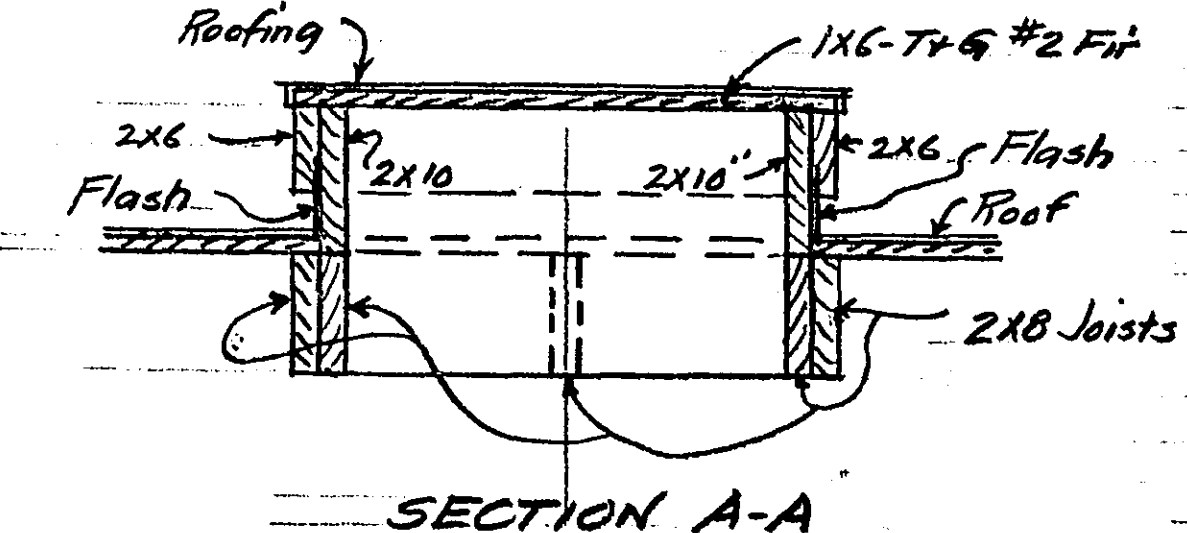
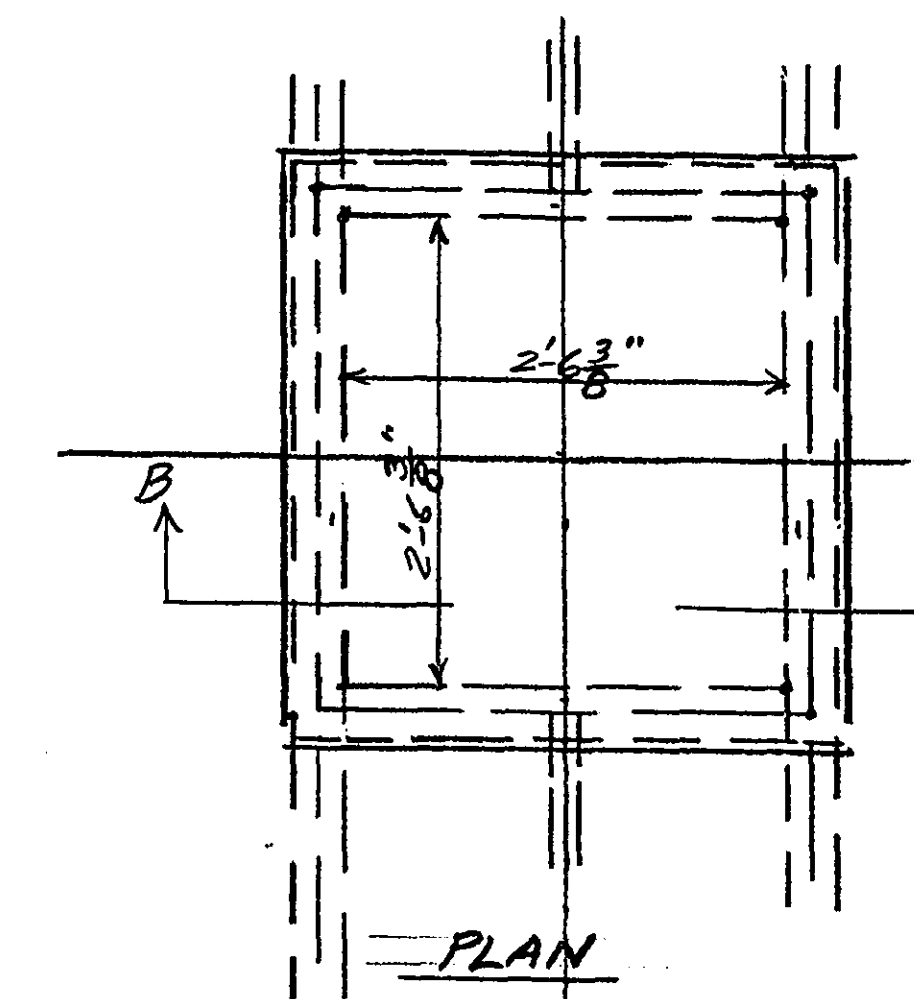




Note: Other Side similar but reversed.

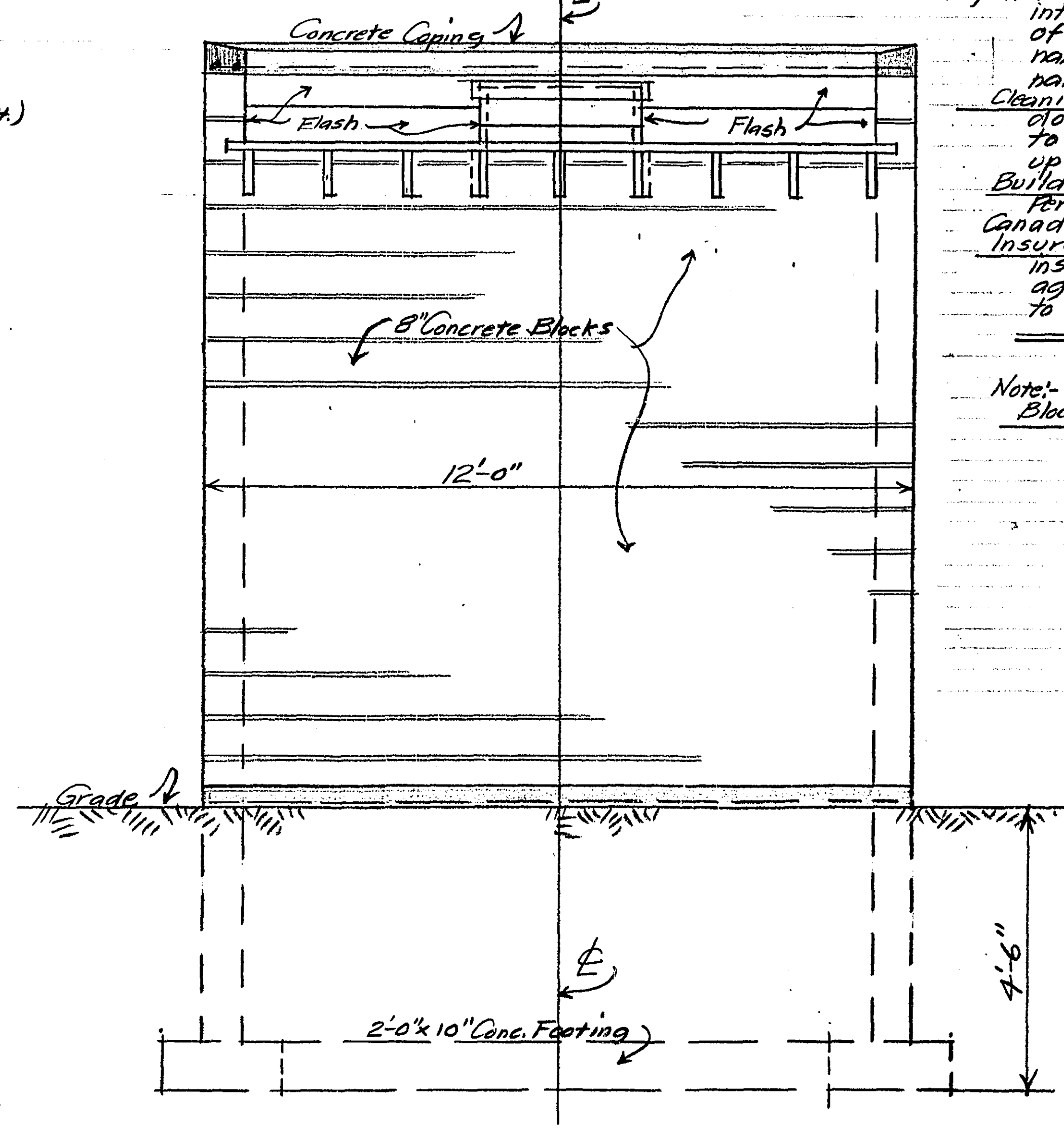
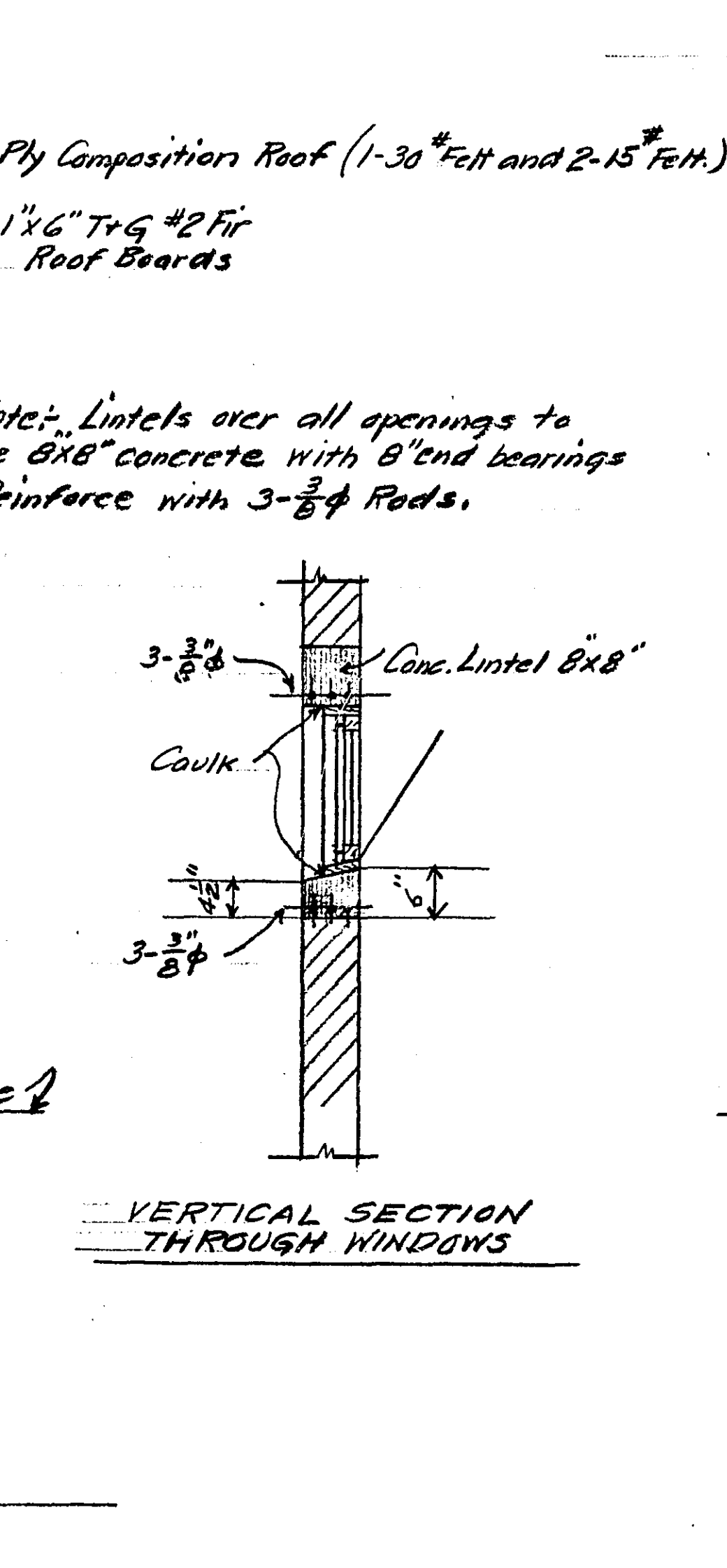
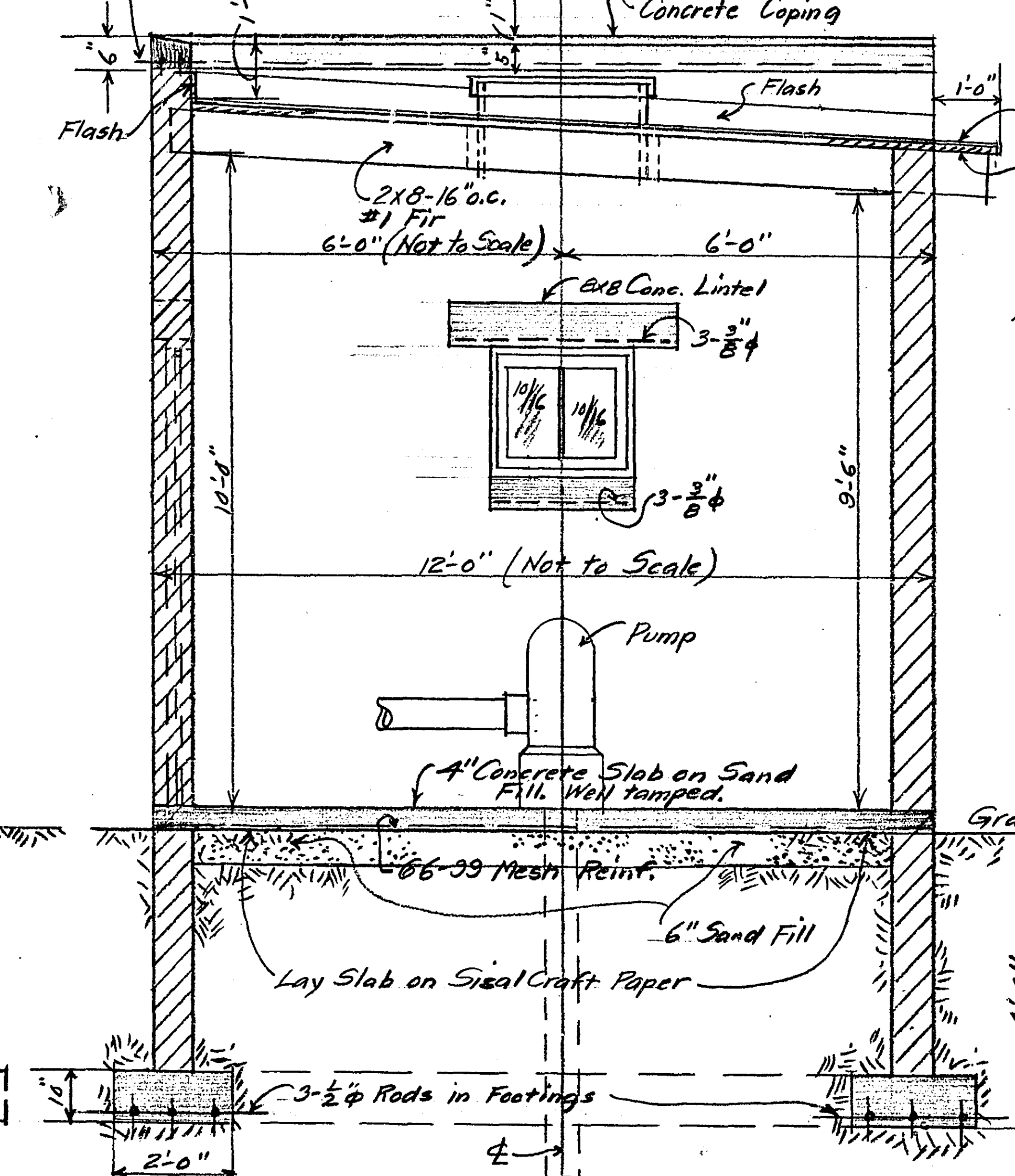
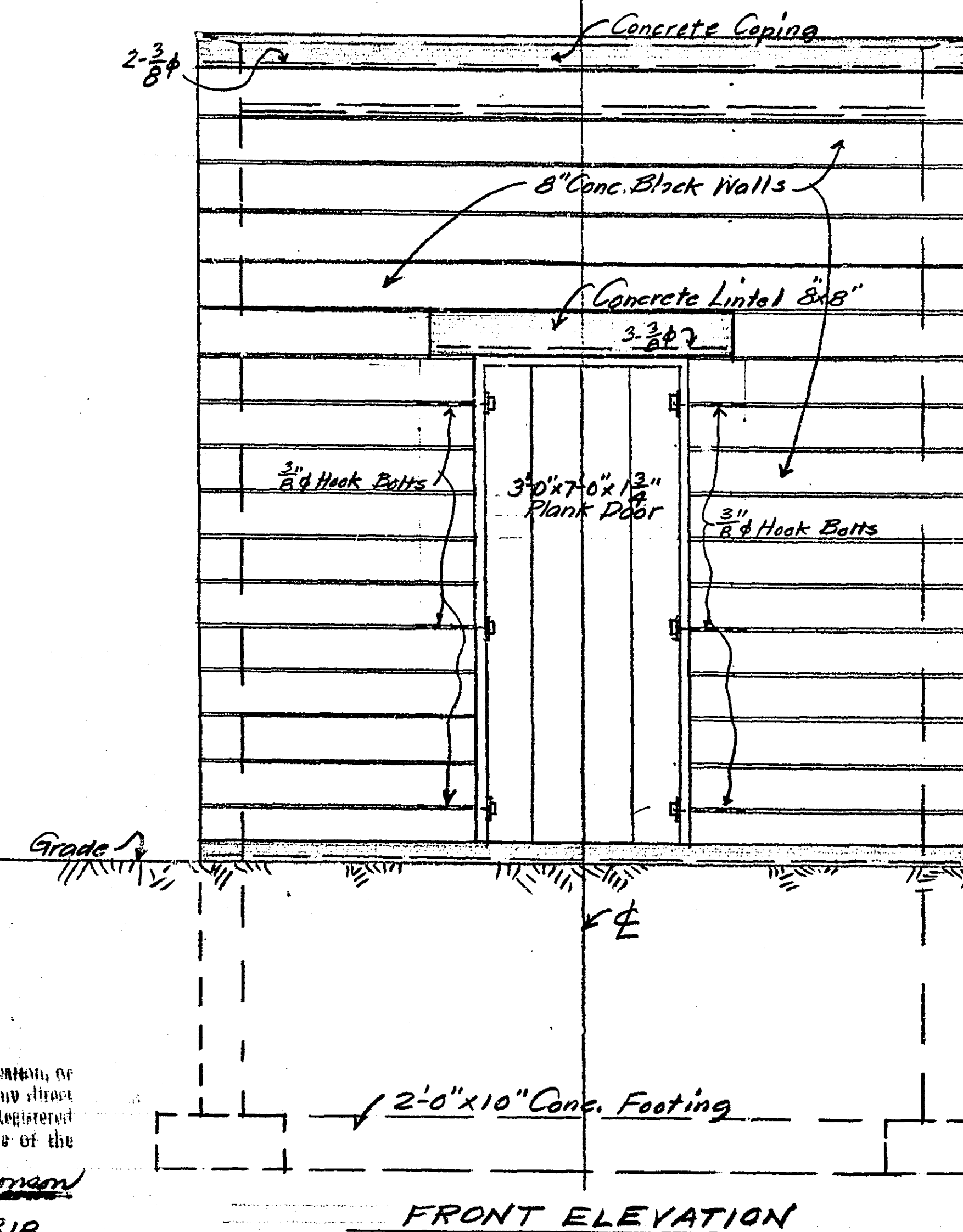


DETAIL OF REMOVABLE ROOF SCUTTLE - SCALE 1/2" = 1'-0"

Specifications
Excavation: Excavate to depth shown for installation of footings and foundation walls.
Backfill: After footings and foundation walls have been built and are well dried out, backfill and tamp for support of floor slab.
Concrete: All concrete in footings, floor slab, sills, lintels and coping to be 2000* concrete. Build to dimensions shown. Top surface of floor slab will be level and have a troweled finish.
Reinforcement: Floor slab to be reinforced with #6-39 wire mesh, coping to have 2 #8 rods. Lintels and sills to have 2 #8 rods. Footings to have 3-#4 rods. Use new billet steel for reinforcing rods.
Concrete Blocks: These to meet all requirements of Building Code of City of St. Paul. Vertical and horizontal joints to be 1" flush joints. Blocks below grade to be laid up in mortar mixed in proportion of 1 volume of portland cement to not more than 1 volume of fine sand or hydrated lime to 6 volumes of dump, loose mortar sand. Blocks above grade will be laid up in Masonry Cement Mortar. Use full bedding in all joints. See Note below.
Lumber: Dimensional lumber to be #1 Fir. Roof boards to be #2 Fir.
Millwork: Windows to be of stock sash and frames of W.P. Pine. Door to be of flush plank type with plank frame. All frames to be well caulked. Windows to be hinged at bottom for swinging in.
Glass and Glazing: Use D.S.A. glass of sizes shown and putty glass into sash in workmanlike manner.
Hardware: Furnish for door, substantial butt hinges, three in number together with lock and three keys. Provide two hinges on each window with restraining chain and top fastener. Hardware to be Corbin, R.W. or equal approved by County Engineer. Contractor to furnish samples for approval.
Painting: All exposed woodwork including door, window sash and frames, roof joists and bottom of roof boards projecting from rear of building, roof scuttle frame, etc. to have 2 coats of lead and oil paint after prime coat. Color to be selected by County Engineer. Roof joists and roof boards inside of building will not be painted.
Roofing and Sheet Metal: Apply to top of roof boards a four (4) ply composition roof with 9 layers of 15# felt. All layers to be well lapped and solid matted with Roofing Pitch. Upper edges of felt to be nailed to boards with 1" Simplex Roofing Nails 6" o.c. in addition to being matted in. Some Roofing will be applied to roof scuttle cover and carried down 4" on scuttle cover frame. Where roof comes in contact with masonry walls and roof scuttle frame, install galvanized iron flashing at least 6" high. Insert top of flashing sheet 2" into wall and bottom 4" under roofing. Top of flashing around roof scuttle frame to be nailed to same with large headed galvanized nails 6" o.c.
Cleaning Down: After blocks are set up well clean down outside walls with Muriatic acid. Building to be left broom clean and all debris cleaned up and removed from site.
Building Permit: Contractor will obtain Building Permit from the Building Inspector of New Canada Township.
Insurance: Contractor will carry all types of insurance to hold Ramsey County harmless against law suits resulting from accidents to the public or Contractors employees.

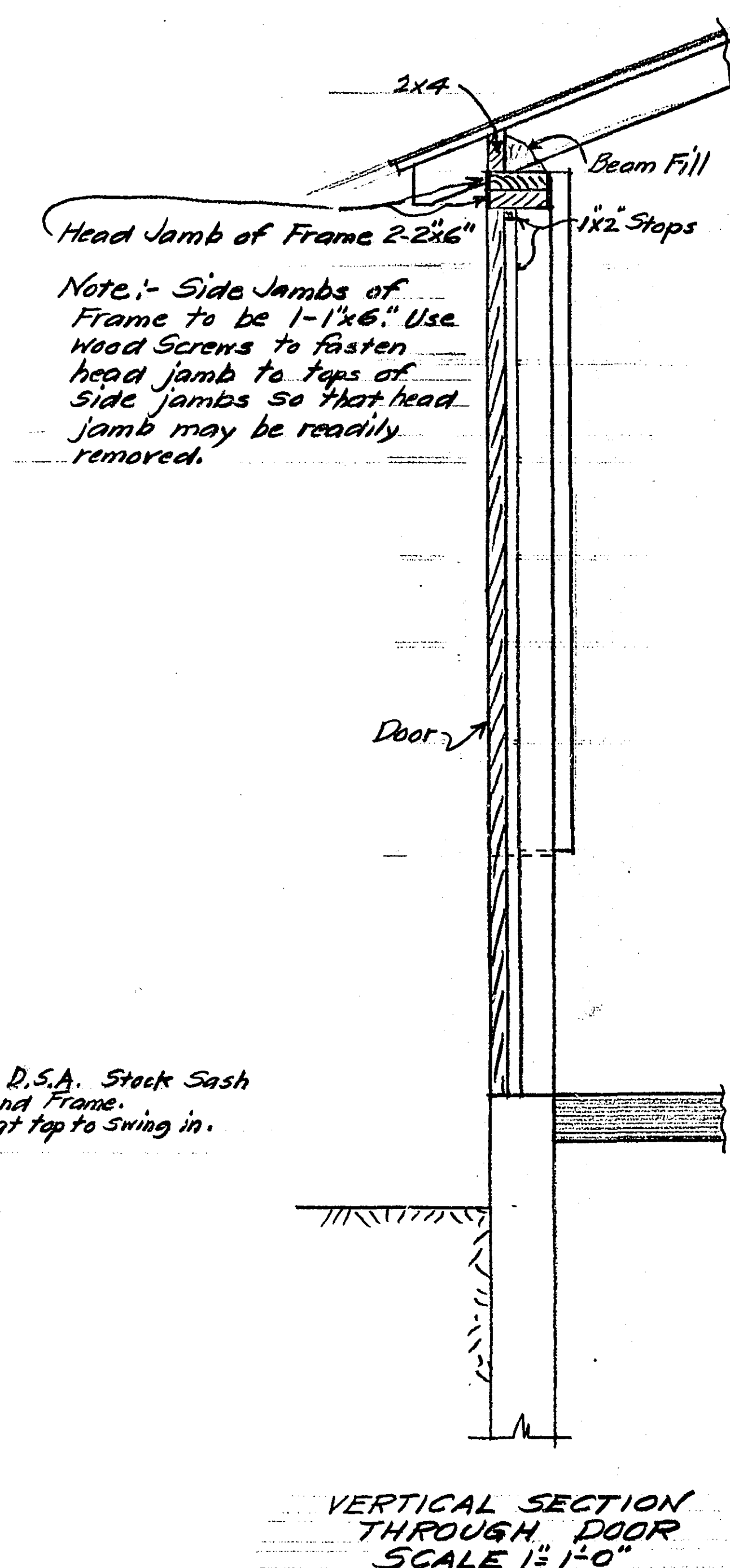
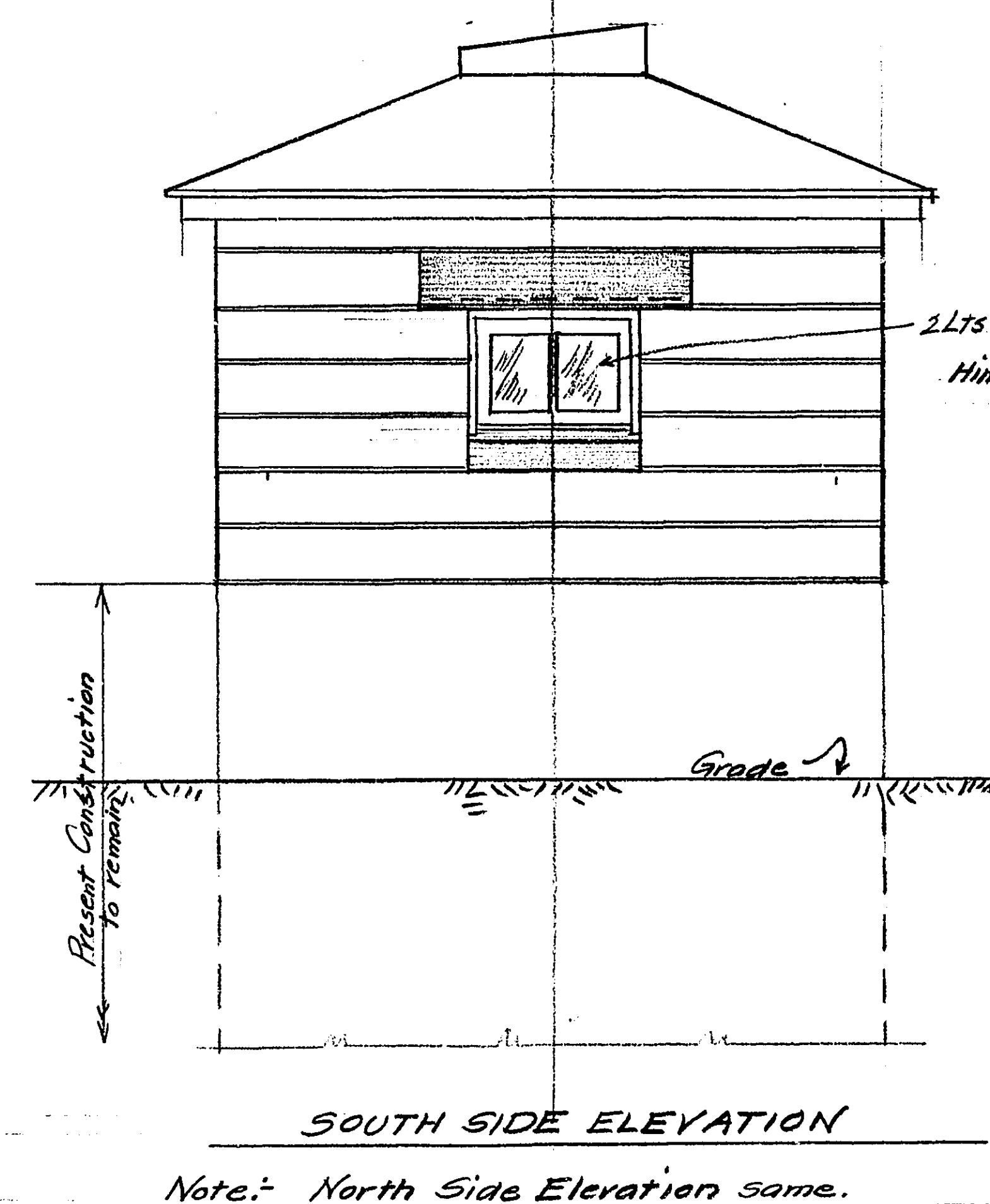
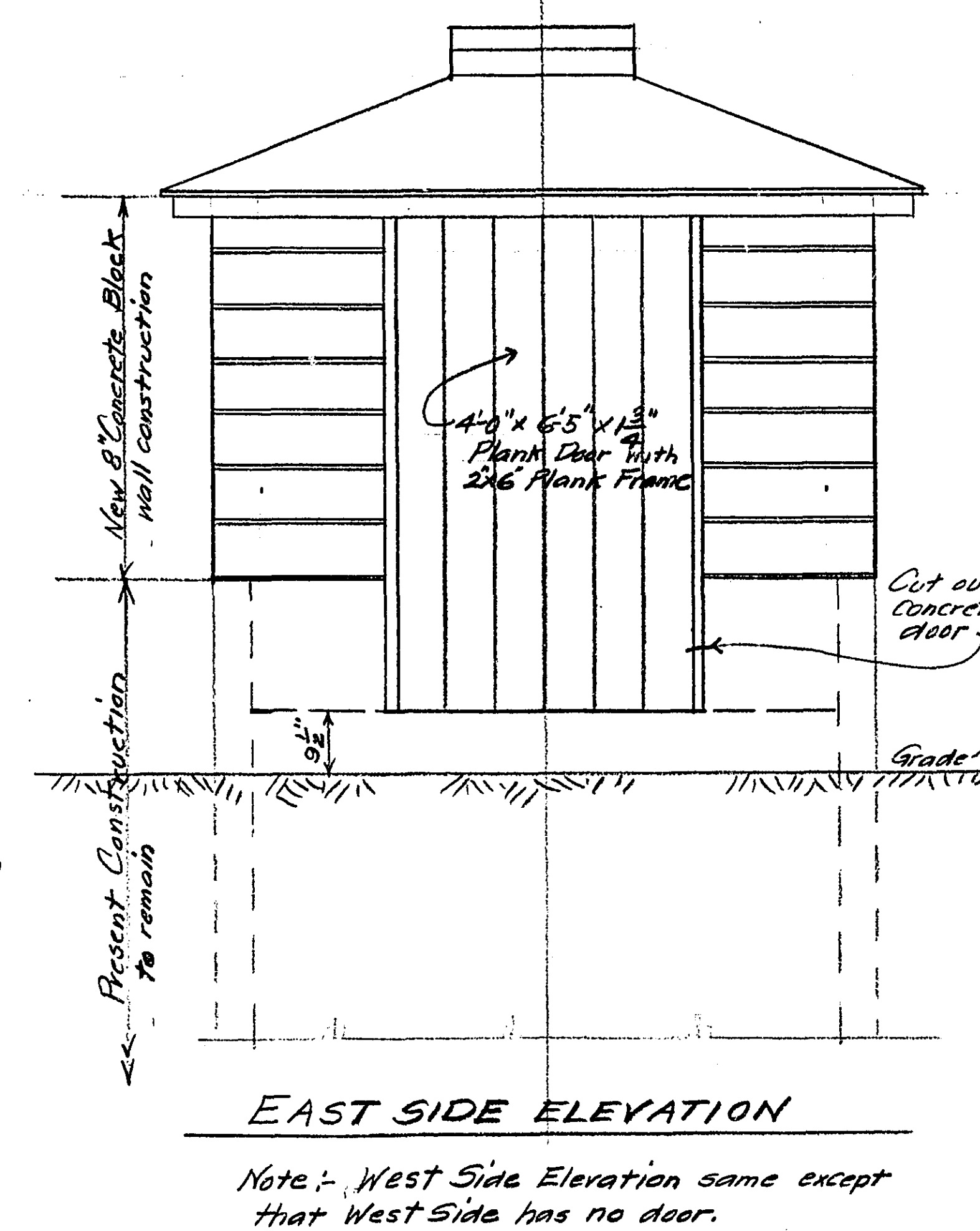
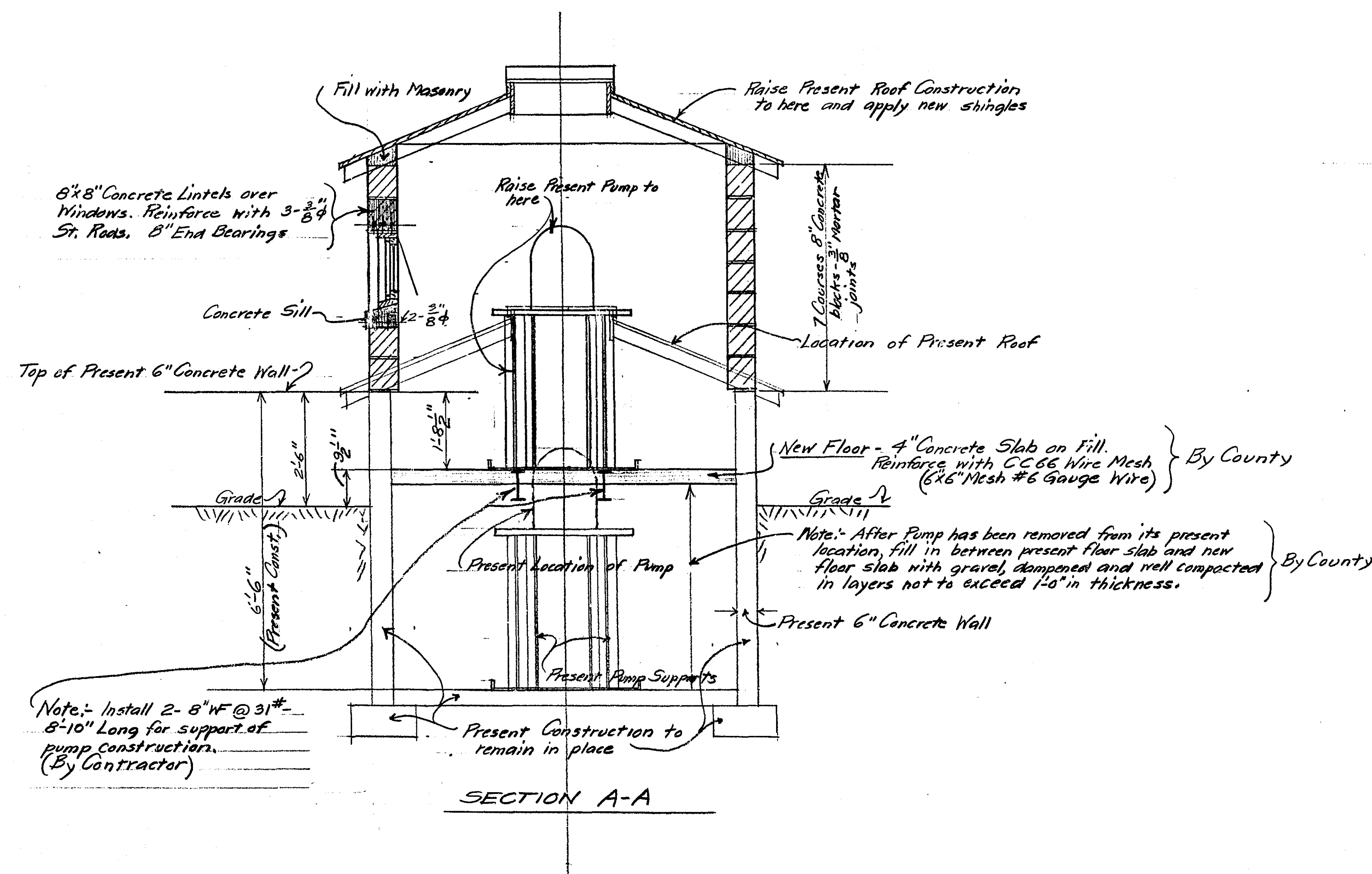
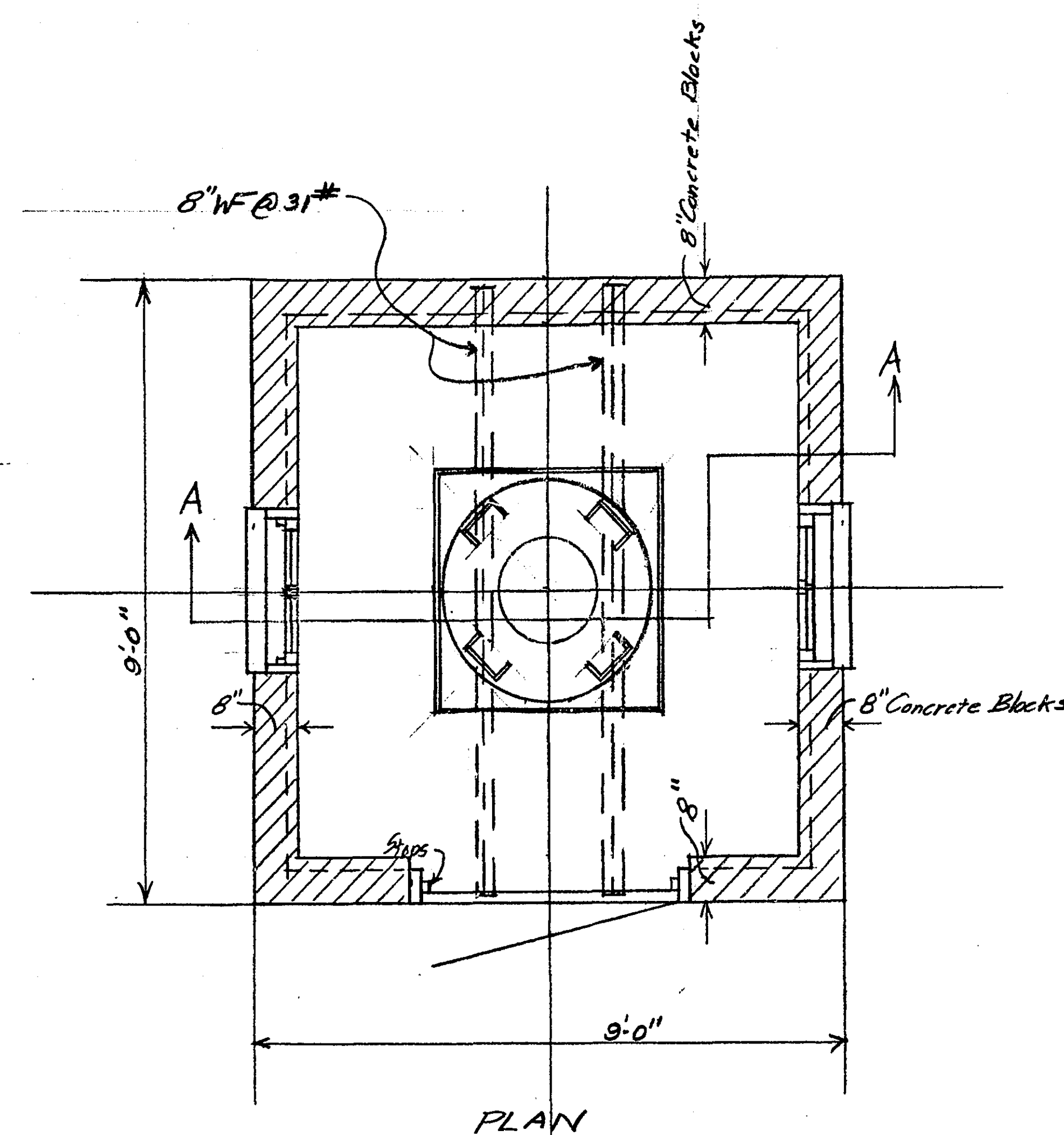
Note: Reinforce alternate horizontal joints in Concrete Block walls with Dur-G-Wal joint reinforcement.

PROPOSED PUMP HOUSE FOR WAKEFIELD LAKE PUMP OFFICE OF COUNTY ENGINEER RAMSEY COUNTY, MINN. SCALE 1/2" = 1'-0" EXCEPT AS NOTED. SEPT. 1954



Note: The Pump House at Turtle Lake was built from this drawing.

Hardware - Millwork - Concrete - Lumber - Scuttle - Roofing and Flashing - Reinforcing - Blocks - Mortar



SPECIFICATIONS

Work to be done by Contractor: Remove present roof and set it aside on site for replacement on top of new walls after they are built. If roof can be removed in one piece, the County will furnish hoist and operator to remove it and replace it, but if it must be taken apart, Contractor will handle this operation. Build concrete block walls on top of present concrete foundation walls. Install new door and two windows. Cover roof with new shingles, paint millwork and install hardware. Furnish and install 2-8" WF steel beams.

Roof: Remove and reinstall as noted above.

Roof Covering: Over present roofing lay one layer of well lapped 15" roofing felt on top of which lay Carey or equal approved by County Engineer 3-tab square butt 12"x36" strip shingles. Approximately 210" per square and slate blend in color. Lay according to established practice for asphalt shingles and manufacturers directions, using large headed roofing nails.

Concrete Blocks: Use nominal 8"x8"x16" concrete blocks meeting all requirements of the Building Code of the City of St. Paul. Blocks to be laid up with full bed and vertical joints with Masonry Cement Mortar. Top of wall to be capped with 1:3:6 concrete or concrete bricks for filling in between roof joists.

Reinforced Concrete: Provide reinforced concrete lintels and sills for window openings as shown, lintels to be reinforced with 3-#4 straight steel reinforcing rods and sills with 2-#4 straight rods. Mix of reinforced concrete to be 1:2:4.

Millwork: Install, as shown, 2 window sash and frames glazed with D.S.A. wire glass. Sash and frames to be stock basement sash of W.P. pine hinged at top to swing in. Install, as shown, entrance door of size noted. Door to be built of W.P. pine, plants on framework inside. In order to install this door, it will be necessary to cut out a portion of present wall as noted. Door to be set in 1x6" W.P. pine frame with 1x2 door stops. See vertical section.

Caulking: Caulk around window and door frames with A.C. Hurn Co's. Vulkatex or equal approved by County Engineer.

Hardware: Provide and install in operating condition all hardware for windows and door. Hardware to be R.W. Corbin or equal. Door to have spring lock, handle etc. Hardware will be selected by County Engineer from samples furnished by Contractor, who will allow the amount of \$25.00 in his bid to cover.

Painting: All millwork and door to be primed and painted two coats of lead oil paint, porch grey in color.

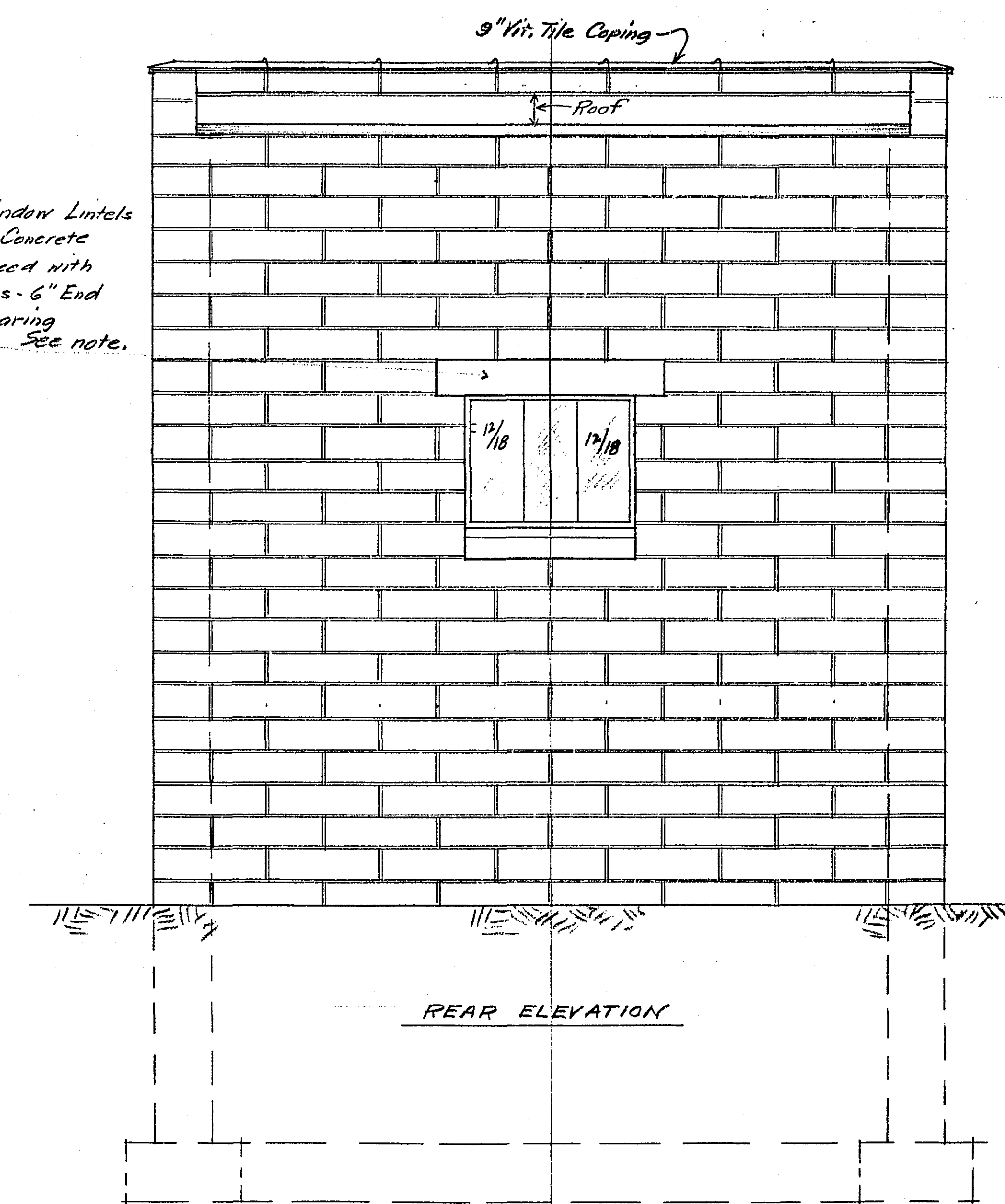
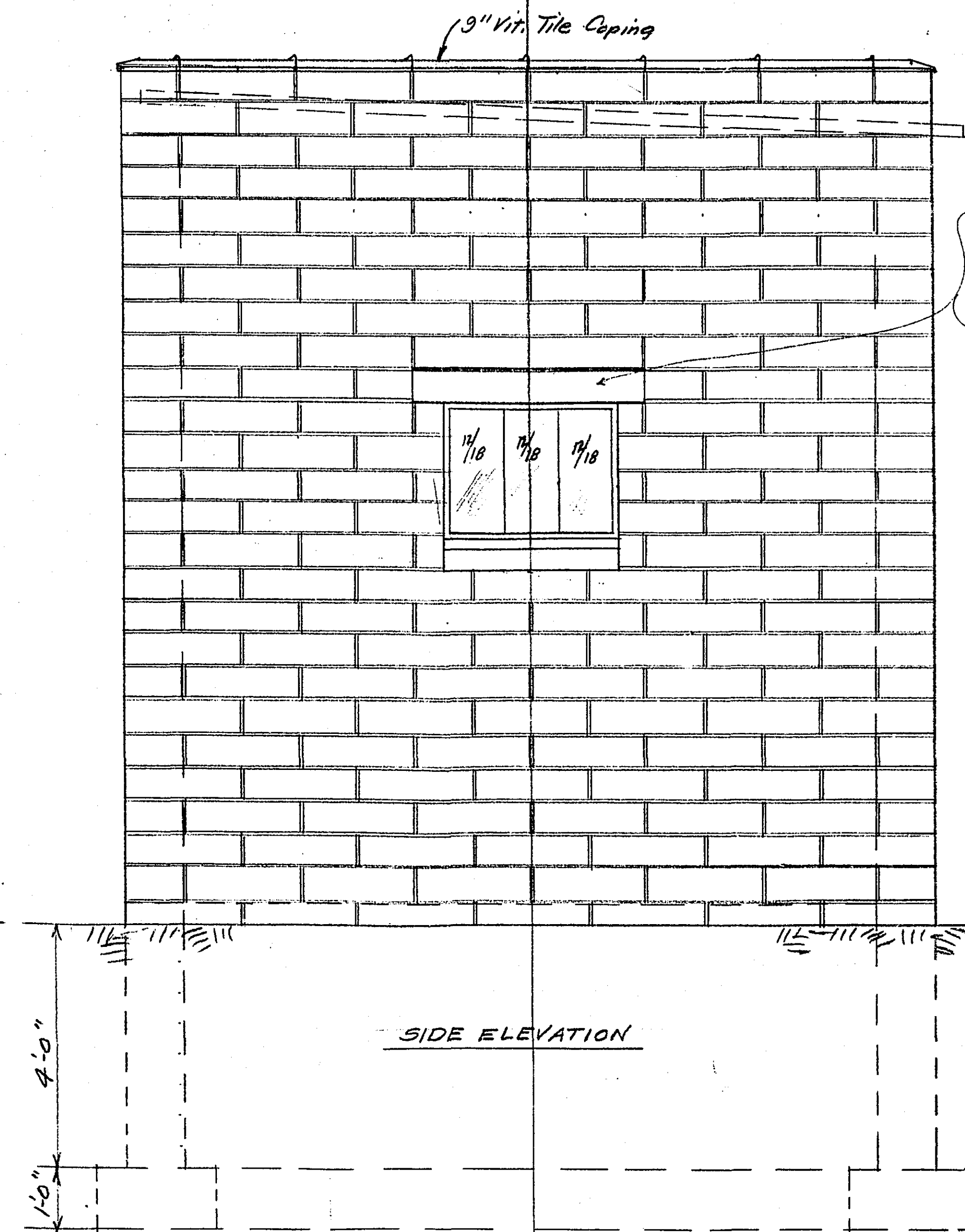
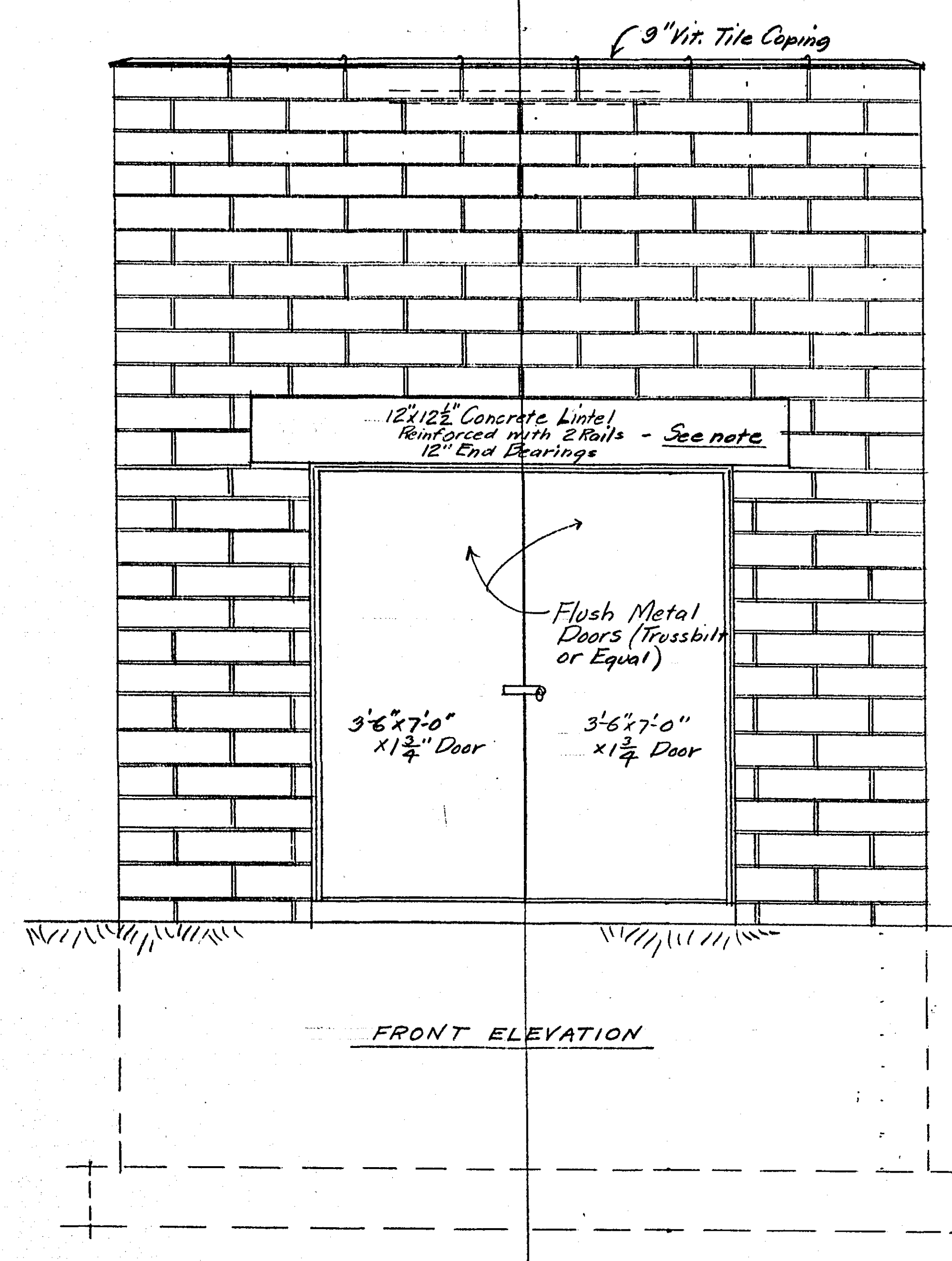
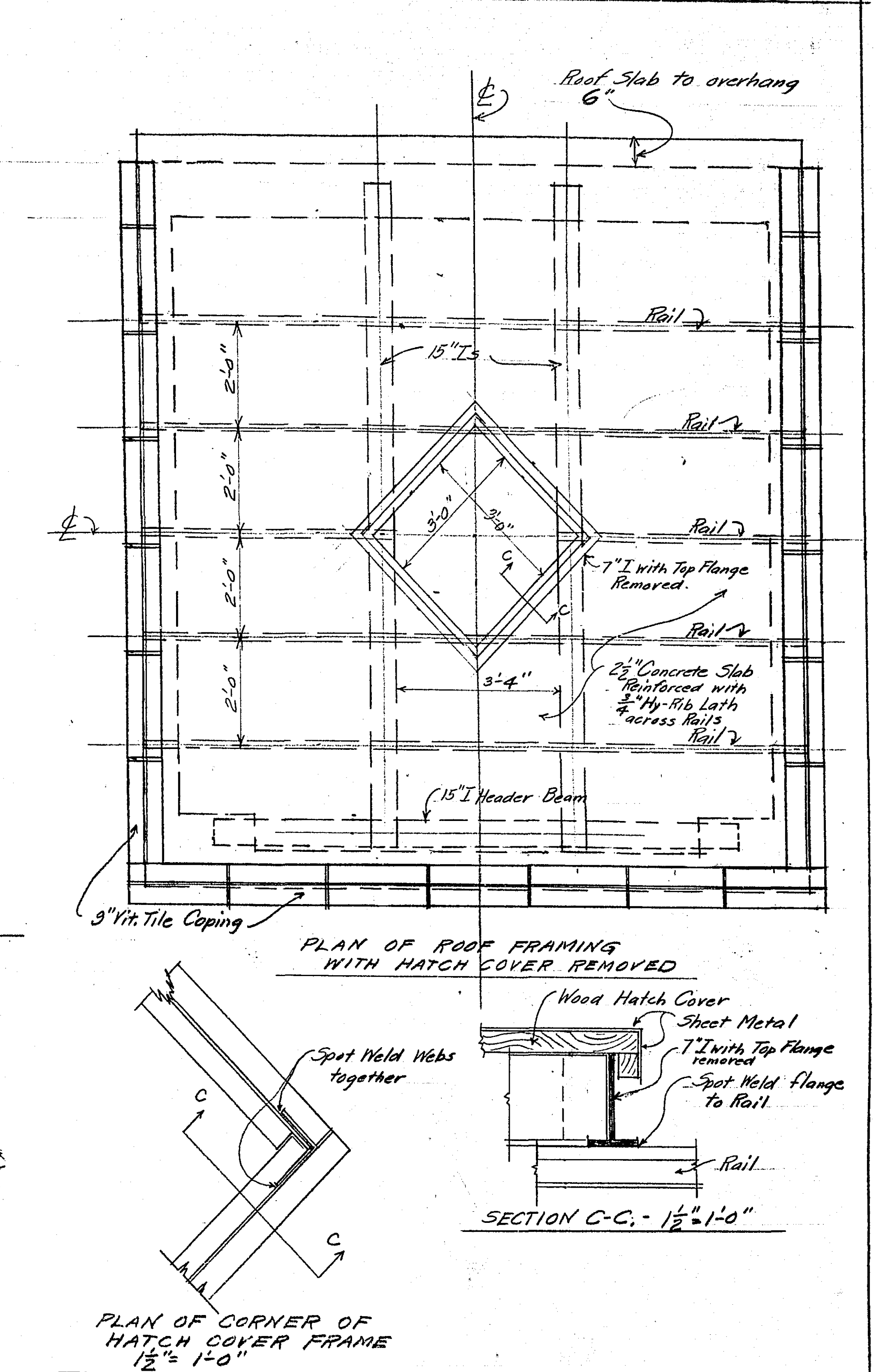
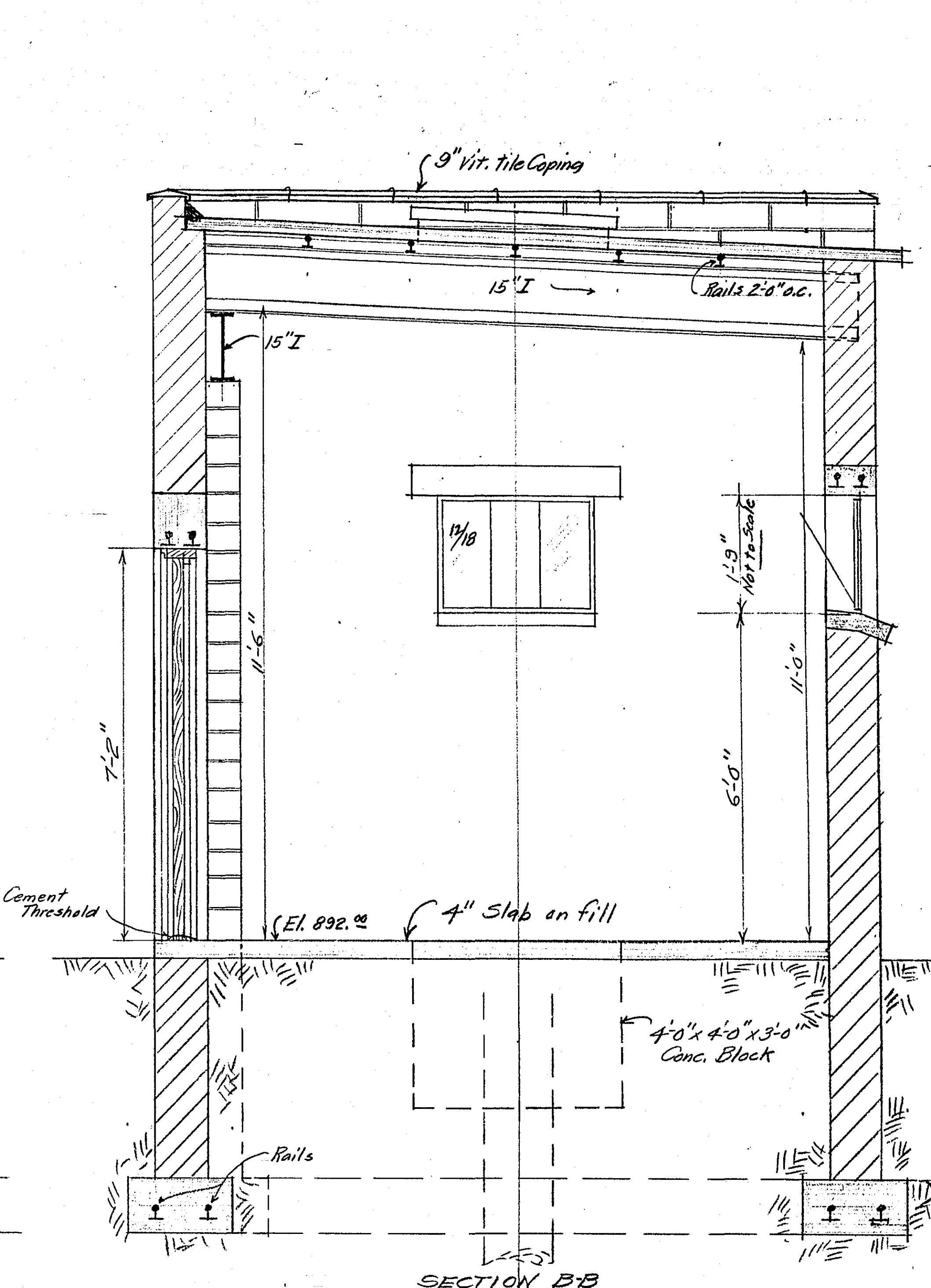
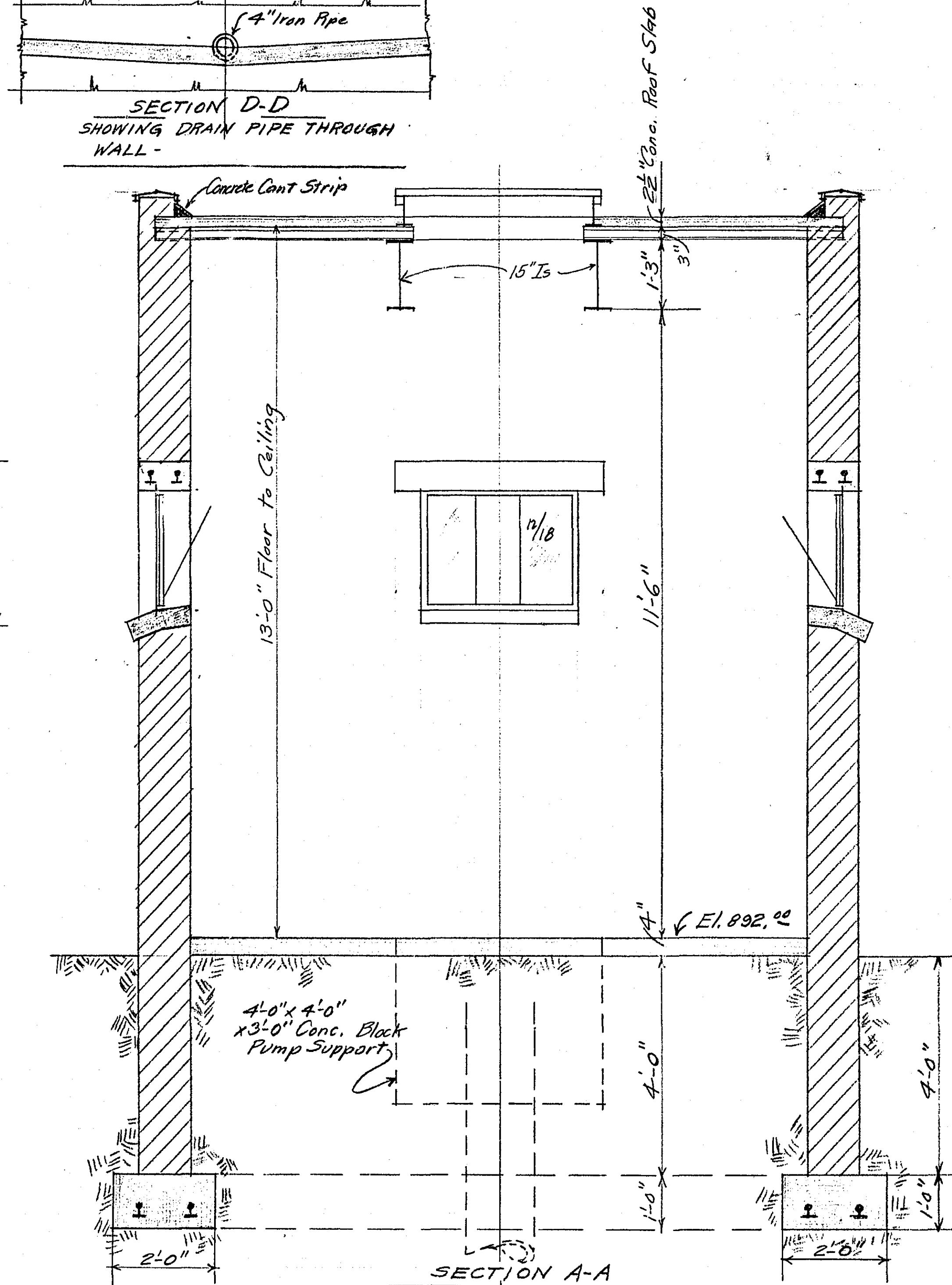
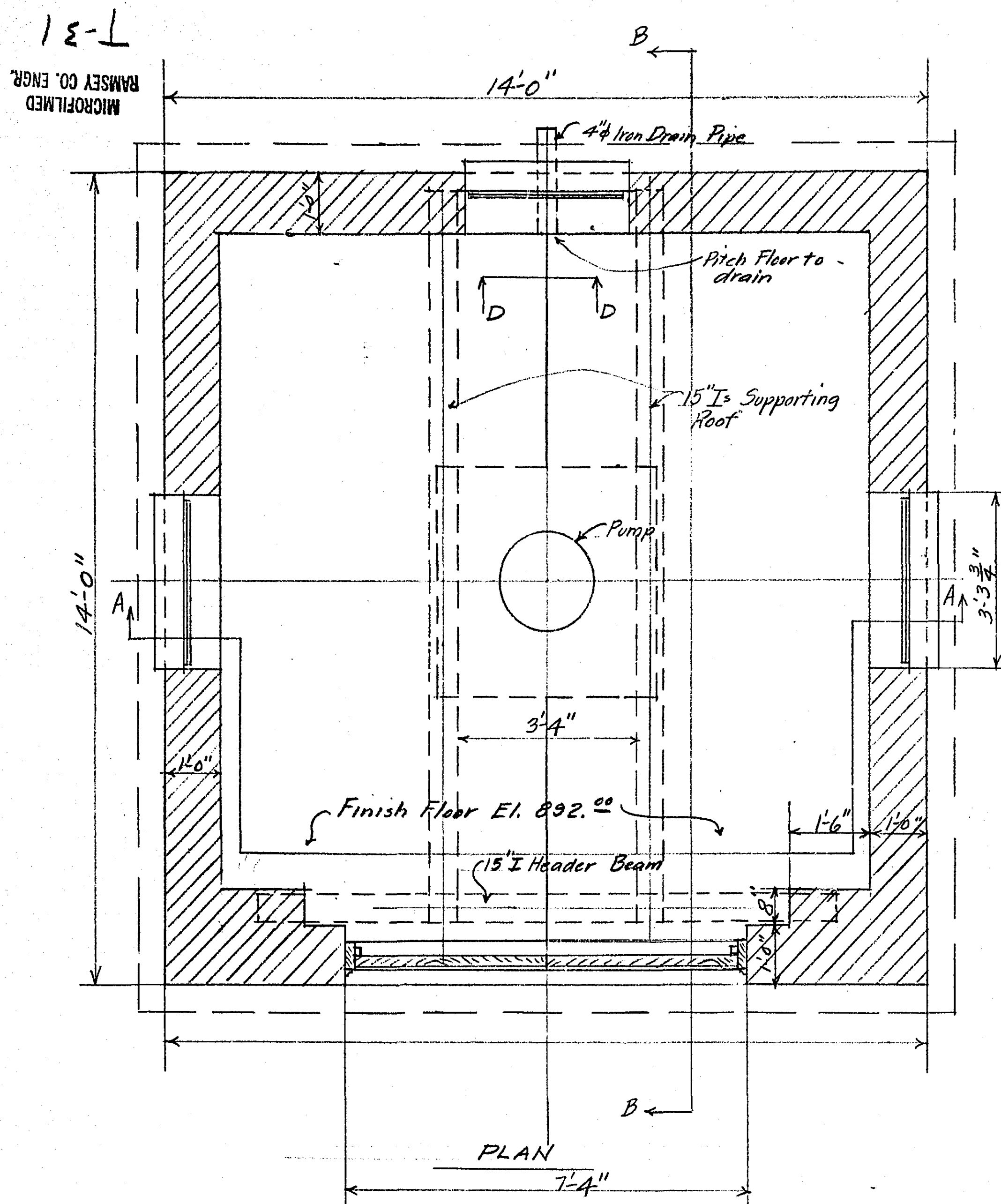
I Beams: Furnish and install 2-2 I Beams noted. After installation these shall be coated with 2 coats of rust proof paint.

County Engineer: Work will be supervised by County Engineer represented by Arthur L. Berthoume, Lake Improvement Engineer.

County: Note that County Forces will raise pump assembly to new position and make all new pipe connections for supply and discharge. County will also install the new concrete floor slab together with gravel fill under same and will also handle all necessary electrical work.

PROPOSED RECONSTRUCTION OF BIRCH LAKE PUMP HOUSE #8.
RAMSEY COUNTY, MINN.
SCALE 1/2" = 1'-0" EXCEPT AS NOTED - MAY 1950
OFFICE OF COUNTY SURVEYOR
A. J. Brumard

7-31
MICROFILMED
AMSEY CO. ENGR.



Note: Where concrete lintels over Door and Window openings are shown, reinforced with rail steel, these may be replaced with structural steel lintels as an alternate.

MATERIAL LIST		
To be furnished by Owner		To be furnished by Contractor
Quantity	Item	Quantity
15'	Cu. Yds. Concrete - 1-2-3½ mix (Roof Slab	
4'	Cu. Yds. Concrete - 1-2-4 mix. (Remainder)	
	Cement, Sand and Lime for Block Mortar	
22'	Sq. Yds. ¾" Hy. Rib Laths	
4'	Rails 14'-0" Long (Footings)	
4'	Rails 12'-0" Long (")	
4'	" 13'-6" " (Roof)	
2'	" 5'-0" " (")	
6'	" 4'-0" " (Window Lintels)	
2'	" 3'-0" " (Door Lintel)	
2'	15" I Beams 12'-0" Long	
1'	15" I " 10'-0" "	
1'	Steel Hatch Frame made from 7" I's	
1'	Wood Hatch Cover	
3'	Steel Sash with Sills & Quarteres (Both original)	
2'	3½" 7½" x 1½" Metal Doors and Frames (Trussbolt)	
1'	Gal. Aluminum Paint	
1'	Gal. Cement Plaster	
42'	Linear Feet 3" ½" Tile Wall Coving	
1'	Length 4" ½ O.I. Pipe - 4' 10" Long	
	Roof Coating (Asphalt)	
3'	Pair BD 5x1 DE. 4½" x 4½" Bolts	} Finish Hardware
1'	10 S 5 Z - 8" Top Bolt T.M.S.	
1'	10 S 7 Z - 8" Bottom Bolt T.M.S.	
1'	W B 5 9 - Master Keyed Padlock RC #3	
1'	315 Z - 8" Nosp. Machine Screws	

PLAN, ELEVATIONS AND DETAILS
COVERING
PROPOSED PUMP HOUSE FOR LAKE OWASSO
SCALE $\frac{1}{2}$ "=1'-0" EXCEPT AS NOTED- APRIL, 1937
Emil H. Schulz
COUNTY SURVEYOR