

CONCEALING WIRE AND CABLE WITHOUT CONDUITS OR RACEWAYS

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1. GENERAL

1.01 This practice outlines the procedures to follow in concealing wire and cable without conduits or raceways.

2. FISHING WIRE AND CABLE IN WALLS

2.01 Consider making runs on the outside of the building rather than fishing walls. Fish wire and cable only where appearance will not permit exposed runs, in accordance with local instructions.

- a. Consider runs through closets, cupboards, etc., rather than fish.
- b. Do not place plastic cable in shafts without baffles, because of fire hazards.
- c. Where customer will not permit an exposed run and excessive time is required to conceal the run, consult your supervisor.

2.02 Fishing from Upper Floor to Basement:

- a. When fishing from the upper floor to the basement, consider the type of construction used in the building.
- b. Consider the location of obstructions.
- c. Never fish between two studdings when electric light wiring is present. Presence of electric wiring is generally indicated by light switches, fixtures, or outlets.
- d. In order to drill through obstructions between floors, the molding at baseboard and floor should be loosened. Consider the following procedure in loosening and replacing molding:
 - (1) Place a wood chisel under or in back of the molding and pry up or out gently.
 - (2) Then place a screw driver between molding and baseboard. See Figure 1.
 - (3) Pry carefully with chisel and screw driver to loosen nails which have been driven diagonally.
 - (4) Move tools forward as the molding is loosened and keep tools as near nail locations as possible.

(5) Loosen molding only as far as necessary to provide room for boring.

(6) Withdraw nails from molding by pulling the head through to the underside with diagonal pliers.

(7) Removing nails this way leaves the paint and putty undisturbed on the face of the molding.

(8) When replacing the molding, remove all dirt and chips from behind the molding and press the molding back into position, starting at the unloosened end.

(9) Fasten molding with thin wire finishing nails.

e. In general, no obstructions will be found in fishing brick or balloon (no obstructions between studs) frame houses. See Figure 2.

f. When fishing walls with obstructions, proceed as follows: See Figure 3.

(1) Loosen molding above baseboard on upper floor and drill hole downward through wall and plates above joist.

(2) Loosen molding at baseboard on upper floor and drill hole downward through floor and plates below joist.

(3) Loosen molding above baseboard on first floor and bore downward through wall and plates.

(4) On upper floor, pass fishing chain with twine attached through hole above baseboard, and with a piece of wire, hook chain through hole at baseboard and pass it through plates.

(5) On first floor, find fishing chain through hole above baseboard and pass it through plates.

(6) If basement has a ceiling, drill hole upward at location of chain and fish it out into basement.

(7) Tie on wire and pull it up to upper floor by use of twine.

g. When location of set, connecting block, etc., is some distance above baseboard, drill hole at location and fish from there down, proceeding as outlined in paragraph 2.02.

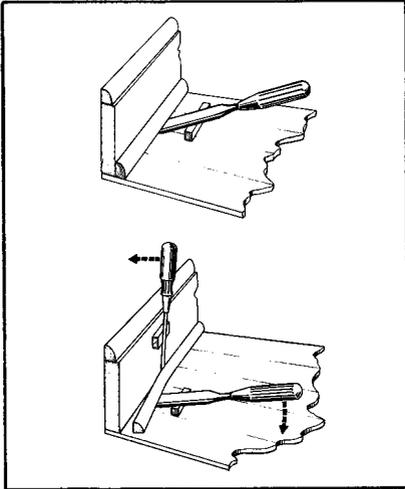


FIGURE 1. Procedure for Removing Molding

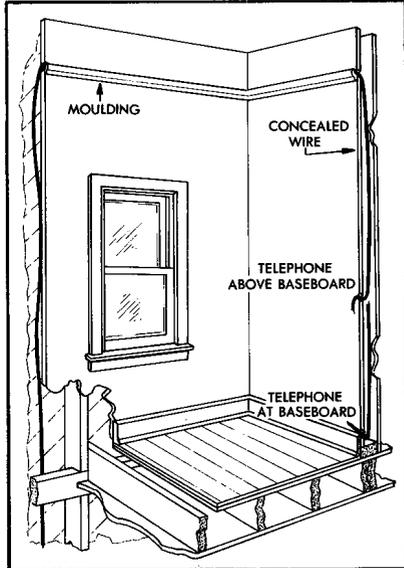


FIGURE 2. Locating on Inside Wall

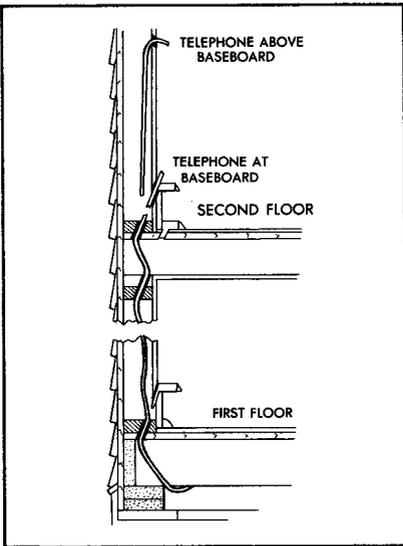


FIGURE 3. Fishing Outside Walls

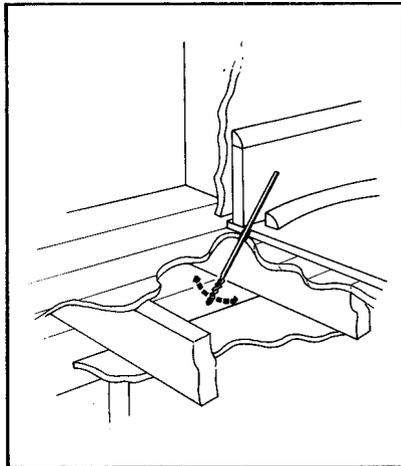


FIGURE 4. Locating Plates

(1) When drilling plates, locate them by feeling with the bit to determine proper position for drilling as shown in Figure 4.

(2) In locating the telephone connecting block, etc., on an inside wall, proceed as shown in Figure 2.

(3) Some of the obstructions which may be encountered are shown in Figure 5.

NOTE: If locations of obstructions are not known or cannot be determined readily, bore

hole with search bit to locate them. Use caution when searching for obstructions. Avoid using search bit unless absolutely necessary.

2.03 Fishing Walls on the Same Floor:

- a. Make runs on baseboards or around door and window frames where permissible.
- b. Sound out walls or partitions by tapping lightly before attempting to fish.

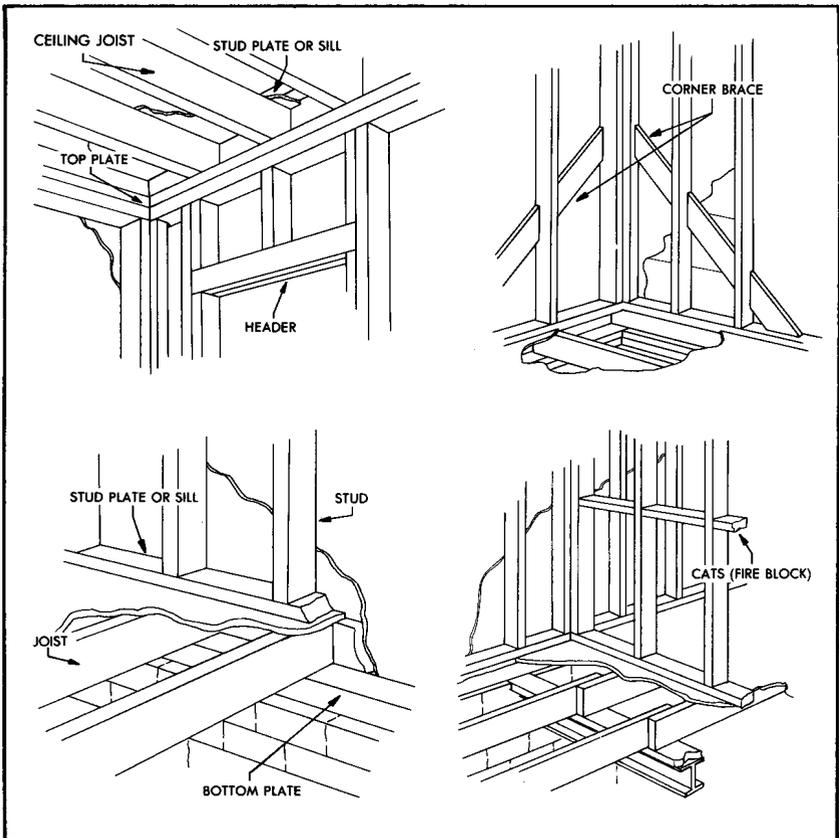


FIGURE 5. Wall Obstructions