



Town of Charlton

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DEPARTMENT of BUILDING
INSPECTIONAL SERVICES

Guidance for Protector and Repair Plates

5602.6.1 Drilling and Notching of Top Plate.

When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling or notching of the top plate by more than 50% of its width, a galvanized metal tie of not less than 0.054 inches thick (1.37 mm) (16 ga) and 1½ inches (38 mm) wide shall be fastened to each plate across and to each side of the opening with not less than eight 16d nails at each side or equivalent. *See* 780 CMR Figure 5602.6.1.

Exception: When the entire side of the wall with the notch or cut is covered by wood structural panel sheathing.

7602.2.1 Protection against Physical Damage.

In concealed locations, where piping, other than cast-iron or galvanized steel, is installed through holes or notches in studs, joists, rafters or similar members less than 1.5 inches (38 mm) from the nearest edge of the member, the pipe shall be protected by shield plates. Protective shield plates shall be a minimum of 0.062-inch-thick (1.6 mm) steel, shall cover the area of the pipe where the member is notched or bored and shall extend a minimum of two inches (51 mm) above sole plates and below top plates.



Needs repair plate



Needs proper protection



Correct repair and



Home made protection



Needs protection



Needs protection and repair



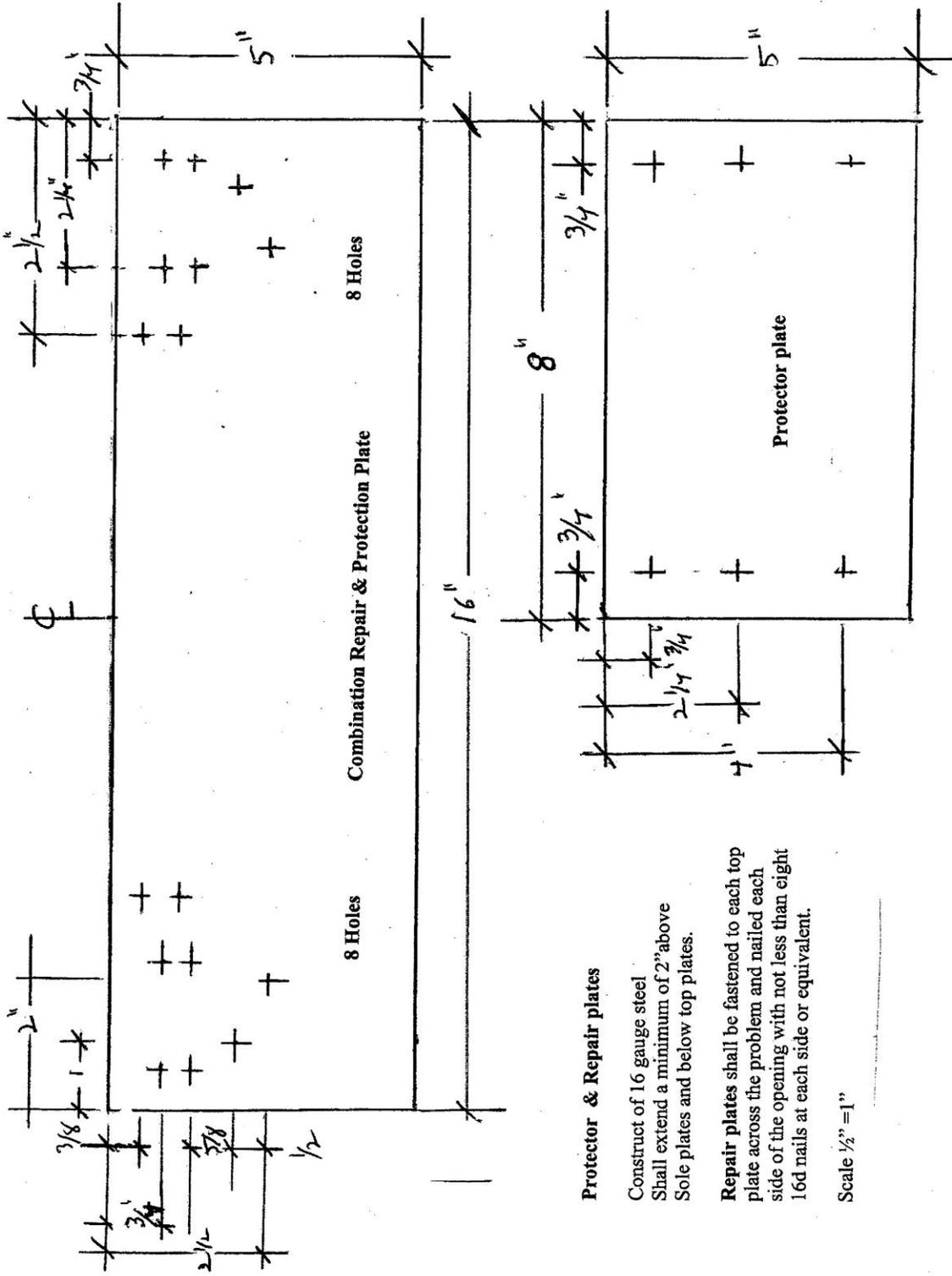
Manufactured protection

Examples of acceptable plates

USP #ICPL516-TZ Simpson #PSPN516Z
USP #ICPL58 Simpson #PSPN58Z

Curtis Meskus - Building Commissioner/Zoning Enforcement Officer

Peter Starkus – Plumbing & Gas Inspector
James Jones – Inspector of Wires
Nancy Shields– Administrative Assistant



8 Holes

Combination Repair & Protection Plate

8 Holes

Protector plate

Protector & Repair plates

Construct of 16 gauge steel
 Shall extend a minimum of 2" above
 Sole plates and below top plates.

Repair plates shall be fastened to each top
 plate across the problem and nailed each
 side of the opening with not less than eight
 16d nails at each side or equivalent.

Scale 1/2" = 1"