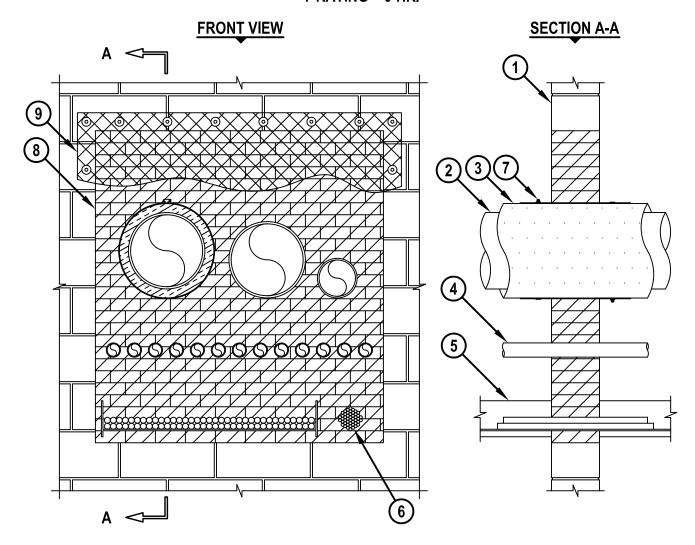
UL/cUL SYSTEM NO. W-J-8007

MULTIPLE PENETRATING ITEMS THROUGH CONCRETE BLOCK WALL

F-RATING = 4-HR. T-RATING = 0-HR.



- 1. ANY UL/cUL CLASSIFIED CONCRETE BLOCK WALL ASSEMBLY (MIN. 7-5/8" THICK) (4-HR FIRE-RATING).
- 2. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE, MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE, MAXIMUM 6" NOMINAL DIAMETER COPPER OR CONDUIT, OR MAXIMUM 4" NOMINAL DIAMETER EMT (MAX. QTY = 3).
- 3. MAXIMUM 1-1/2" THICK GLASS FIBER PIPE INSULATION.
- 4. MAXIMUM 2" DIAMETER STEEL CONDUIT (MAX. QTY. = 13).
- 5. ALUMINUM CABLE TRAY (MAXIMUM SIZE = 36" x 6"). ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 40% FILL OF CABLE TRAY:
 - A. 24 FIBER OPTIC CABLE (MAXIMUM 1/2" DIAMETER) WITH PVC JACKET.
 - B. 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 - C. 500 KCMIL SINGLE CONDUCTOR POWER CABLE WITH NYLON JACKET.
 - D. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE WITH PVC JACKET.



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Scale	1/16" = 1"
Date	Jan. 09, 2015

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Saving Lives through Innovation and Education

UL/cUL SYSTEM NO. W-J-8007

MULTIPLE PENETRATING ITEMS THROUGH CONCRETE BLOCK WALL

F-RATING = 4-HR. T-RATING = 0-HR.

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- 6. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING:
 - A. 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC JACKET.
 - B. 24 FIBER OPTIC CABLE (MAXIMUM 1/2" DIAMETER) WITH PVC JACKET.
 - C. 3/C NO. 18 METAL CLAD CABLE.
 - D. RGU/59 COAXIAL CABLE WITH PVC JACKET.
 - E. ROMEX (2/C NO. 10 +GROUND) WITH PVC JACKET.
 - F. 7/C NO. 12 AWG CABLE WITH PVC JACKET.
- 7. MINIMUM 6" LONG JACKET FORMED OF MINIMUM 0.010" THICKNESS STEEL SHEET SECURED IN PLACE WITH ONE STEEL BAND CLAMP. ENDS OF THE JACKET TO OVERLAP BY A MINIMUM 2" AND EXTEND 1" INTO WALL ON BOTH SIDES OF ASSEMBLY.
- 8. HILTI CFS-BL FIRESTOP BLOCK OR HILTI FS 657 FIRE BLOCK (2" THICK x 5" WIDE x 8" DEEP, REFERENCE: FRONT VIEW) FIRMLY PACKED WITHIN OPENING. EITHER ONE OR A COMBINATION OF BLOCK TYPES MAY BE USED.
- 9. SEE NOTE NO. 3 BELOW.

ANNULAR SPACE	MINIMUM	MAXIMUM
BETWEEN CABLE TRAY AND ADJACENT PENETRATING ITEMS	2"	4-1/2"
BETWEEN CABLE TRAY AND PERIPHERY OF OPENING	1"	3"
BETWEEN PIPES, CONDUITS, OR TUBING (ITEM 2)	1-1/2"	4-3/4"
BETWEEN PIPES, CONDUITS, OR TUBING (ITEM 2) AND PERIPHERY OF OPENING	3"	4-1/4"
BETWEEN STEEL CONDUITS (ITEM 4)	1-1/8"	1-1/8"
BETWEEN STEEL CONDUITS (ITEM 4) AND ADJACENT PENETRATING ITEMS	4-1/2"	4-3/4"
BETWEEN STEEL CONDUITS (ITEM 4) AND PERIPHERY OF OPENING	1-1/8"	2-1/2"
BETWEEN CABLE BUNDLE AND ADJACENT PENETRATING ITEMS		6"
BETWEEN CABLE BUNDLE AND PERIPHERY OF OPENING		2-1/4"

- NOTES: 1. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES, WITH MAXIMUM DIMENSION OF 52".
 - 2. APPLY HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT OR HILTI CP 618 FIRESTOP PUTTY STICK INTO INTERSTICES OF CABLES, BETWEEN CABLES AND CABLE TRAY, AND ANY VOIDS TO MAXIMUM EXTENT POSSIBLE.
 - 3. WHEN ANNULAR SPACE EXCEEDS 4", A NOMINAL 2" x 2" STEEL WIRE MESH (16 GA.) SHALL BE ATTACHED TO BOTH SIDES OF THE WALL BY MEANS OF 1/4" HILTI TOGGLER BOLTS WITH 1-1/2" DIAMETER FENDER WASHERS (SPACED MAXIMUM 8" C/C). STEEL WIRE MESH CUT TO FIT THE CONTOUR OR PENETRANT AND OVERLAP MINIMUM 3" BEYOND THE PERIPHERY OF THE OPENING.



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