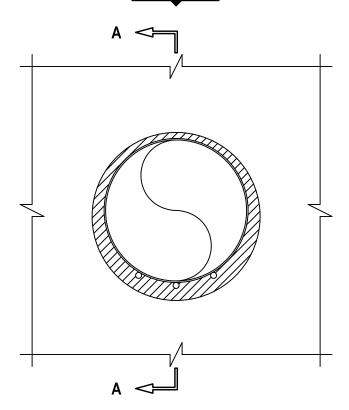
UL/cUL SYSTEM NO. W-L-8023

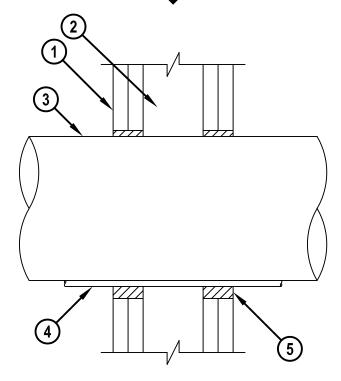
STEEL TUBE AND CABLES THROUGH GYPSUM WALL

F-RATING = 1-HR. OR 2-HR. T-RATING = 0-HR.

FRONT VIEW

SECTION A-A





- 1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
- 2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
- 3. MAXIMUM 6" NOMINAL DIAMETER STEEL TUBE (16 GAUGE).
- 4. TWO PAIR NO. 22 AWG FOIL SHIELDED COMMUNICATION CABLES (MAX. QTY. = 3).
- 5. HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT:
 - A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE-RATING.
 - B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.

NOTES: 1. MAXIMUM DIAMETER OF OPENING = 7".

- 2. ANNULAR SPACE BETWEEN TUBE AND PERIPHERY OF OPENING = MIN. 1/4", MAX. 3/4".
- 3. ANNULAR SPACE BETWEEN CABLES AND PERIPHERY OF OPENING = MIN. 1/4".
- 4. ANNULAR SPACE BETWEEN CABLES AND STEEL TUBE = MIN. 0". MAX. 1".
- 5. PENETRANTS MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.



HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000

Sheet	1 of 1
Scale	1/4" = 1"
Date	Jan. 15, 2015

WL 8023d