

If this document is sealed and signed in a digital or electronic format and is received from someone other than the sealing professional identified in the document, you must contact the sealing professional in writing to validate the authority of the document. The sealing professional declines the seal and signature and shall not be liable for any liability associated with it where the authority of any digital or electronic seal or signature has not been validated in this manner.

ISSUANCE
 ISSUED FOR CONSTRUCTION
 2019/11/13

REVISIONS
 NO. DATE DESCRIPTION

FILE NUMBER 19199
PROJECT MANAGER CAD
PROFESSIONAL CAD
DRAWN BY CLE
CHECKED BY BOW

System No. W-L-1205

ANSI/UL 1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 4)	F Ratings — 1 and 2 Hr (See Items 1 and 4)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Items 1 and 4)
	FTH Rating — 0 Hr

1. Wall Assembly — The 1 or 2 Hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — "C"-T shaped studs 1-5/8 in. (41 mm) wide by 2-1/2 in. (64 mm) deep, fabricated from 25 MSG galv steel, spaced max 24 in. (610 mm) OC.
 B. Gypsum Board* — One layer of nom 1/2 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner and one or two layers of 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide gypsum board with square or tapered edges. The gypsum board types, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 10-1/2 in. (267 mm).
 1A. Wall Assembly — As an alternate to the above wall assembly, the 1 or 2 Hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (405 mm) OC.
 B. Gypsum Board* — Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 10-1/2 in. (267 mm).
 The cavity F, FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
 2. Metallic Sleeve — Max 10-1/2 in. (267 mm) diam cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) thick galv sheet steel and having a min 1 in. (25 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall. Sleeve installed by rolling the sheet steel to a diam smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular cuts in the gypsum board layers. Sleeve may also be formed of No. 8 steel wire mesh having a min 1 in. (25 mm) lap along the longitudinal seam.

HILTI
 Hilti Firestop Systems
 Reproduced by HILTI, Inc. Courtesy of Uniconverters Laboratories, Inc. January 22, 2015
 Page: 1 of 2

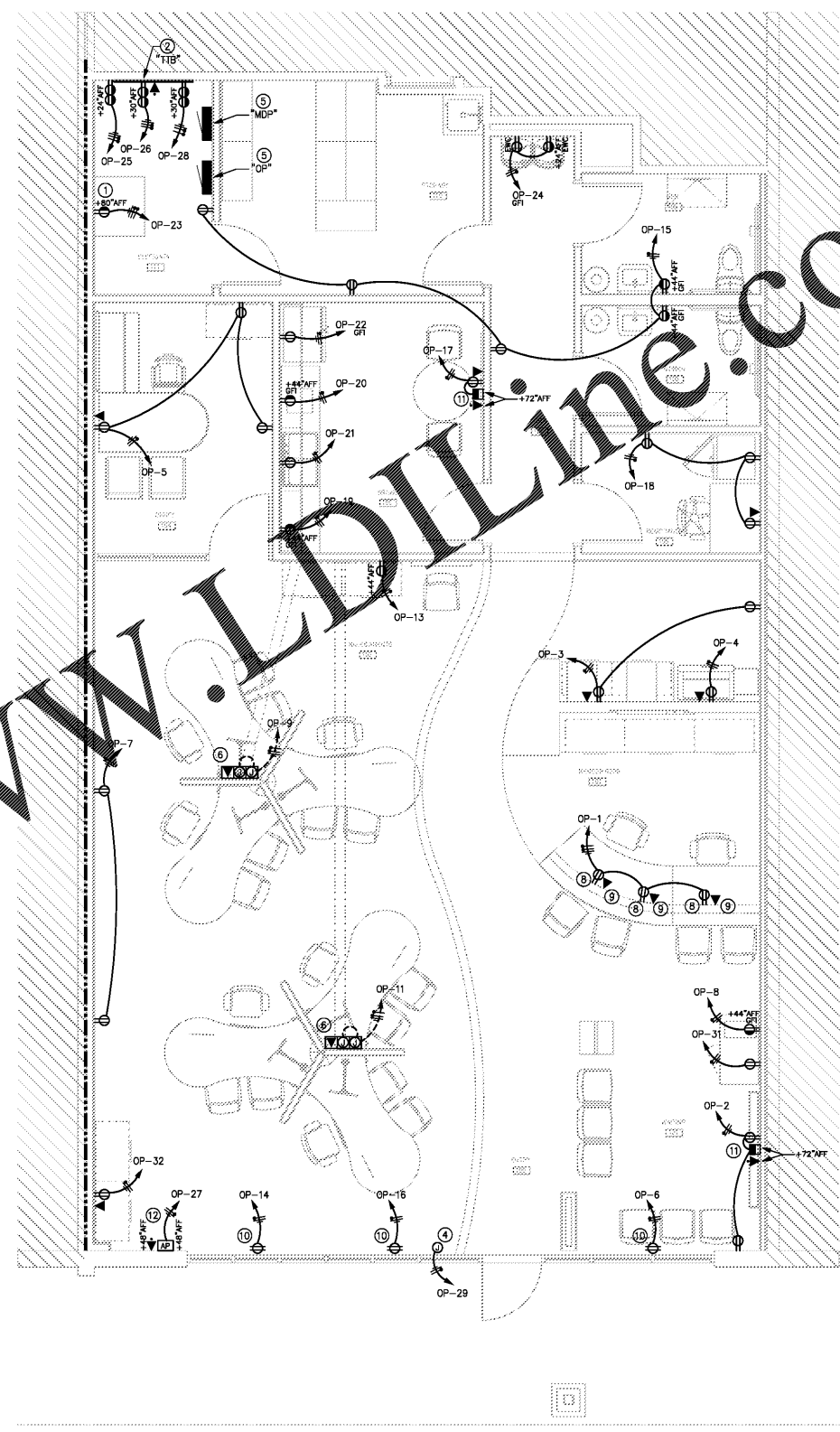
System No. W-L-1205

3. Through-Penetrations — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. An annular space of min 1/8 in. (3 mm) to max 1-5/8 in. (41 mm) is required within firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 A. Steel Pipe — Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
 C. Conduit — Nom 4 in. (203 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
 D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 F. Flexible Steel Conduit — Nom 2 in. (51 mm) diam (or smaller) flexible steel conduit.
 See Flexible Metal Conduit (EMT) category in the Electrical Construction Equipment Directory for names of manufacturers.
4. Firestop System — The firestop system shall consist of the following:
 A. Packing Material — Min 2-1/8 in. (54 mm) or 2-3/4 in. (70 mm) thickness of min 4 pcf (84 kg/m³) mineral wool batt insulation firmly packed into opening on the room side of the wall as permanent form for 1 and 2 hr fire rated walls, respectively. Packing material to be removed from the room side of wall as required to accommodate the required thickness of fill material. In alternate wall assembly, packing material to be flush with other side of the wall and recessed from the other side of the wall to accommodate the required thickness of fill material.
 B. Fill Void or Cavity Material — Sealant* — Min 1 in. (25 mm) thickness of fill material applied within sleeve, filling surface of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant*
 *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (UL or Canada), respectively.
 *Bearing the UL Listing Mark

HILTI
 Hilti Firestop Systems
 Reproduced by HILTI, Inc. Courtesy of Uniconverters Laboratories, Inc. January 22, 2015
 Page: 2 of 2

- NOTES THIS SHEET**
- DATA RACK (OWNER-PROVIDED), COORDINATE WITH OWNER SPECS AND PROVIDE 36" CLEARANCE IN FRONT OF RACK.
 - PROVIDE 3/4" THICK FIRE RETARDANT INTERIOR GRADE PLYWOOD BACKBOARD, PROVIDE 1" x 6" COPPER TELECOMMUNICATIONS GROUND BAR ATTACHED TO BACKBOARD. GROUND USING #4 AWG INSULATED CONDUCTOR AND BOND TO THE POWER SERVICE GROUND.
 - NOT USED.
 - GENERAL CONTRACTOR TO CONFIRM LOCATION OF AAA SIGNAGE ON PARAPET WITH OWNER BEFORE INSTALLATION. PROVIDE NEW WIRING & CIRCUITS FOR LED SIGNS. EXISTING J-BOX TO REMAIN. J-BOX ABOVE CEILING WITH LOCAL DISCONNECT SWITCH, FOR SIGNAGE. SHALL CONTAIN (1) 120V, 20 AMP CIRCUIT. ALL BRANCH CIRCUIT WIRING TO THE SIGN SHALL BE PER UL2161 FOR GFI SIGN TRANSFORMERS. UL2161 REQUIRES THAT ALL CIRCUITS SHALL HAVE A DEDICATED HOT, NEUTRAL, AND GROUND TERMINATING AT THE ELECTRICAL PANELBOARD. CONTROL SIGN WITH PHOTO-ELECTRIC SWITCH.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL PANELS WITH THE INSTALLATION OF THE DATA RACKING. PANELS SHALL NOT ENROACH ON THE OWNER REQUIRED 5'-0" CLEARANCE FOR THE DATA RACK.
 - LEGRAND WIREMOLD OMNIBOX (WALKERDUCT) 880S3 FLOOR BOX WITH A 82/PCC BLK THREE GANG NONMETALLIC CARPET FLANGE AND THREE 829PCK-BLK NONMETALLIC COVERS. EACH FLOOR BOX SHALL BE SUPPLIED BY ONE(1) 1" DEDICATED CONDUITS FOR POWER AND TWO(2) 1/2" DEDICATED CONDUITS FOR DATA.
 - NOT USED.
 - RECEPTACLES SHALL BE MOUNTED IN MILLWORK. ROUTE CONDUIT AND WIRING HIDDEN IN MILLWORK. SEE ARCHITECTURAL PLANS FOR MILLWORK DETAILS. COORDINATE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE A 1" E.C. WITH PULLSTRING TO THE DATA RECEPTACLES MOUNTED IN THE MILLWORK. COORDINATE EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.
 - RECEPTACLE IN CEILING ABOVE SHOW WINDOW PER NEC 210.62.
 - TV OUTLET WITH DUPLEX RECEPTACLE. TV CONNECTION ENCLOSURE EQUAL TO STRONG SEM-RBX-PRO-8, MOUNTED @72" AFF. PROVIDE 3/4" EMPTY CONDUIT WITH PULL STRING 6" ABOVE ACCESSIBLE CEILING.
 - ALARM PAD (AP) BY OWNER/VENDOR. E.C. TO PROVIDE 1" CONDUIT FROM ABOVE ACCESSIBLE CEILING TO THIS LOCATION. MOUNT AT 48" AFF. COORDINATE EXACT LOCATION PRIOR TO ROUGHING-IN.

- DRAWING E-201 GENERAL NOTES**
- CONDUIT AND CABLES IN CONCEALED OR EXPOSED AREAS SHALL BE INSTALLED AND SUPPORTED SUCH THAT THERE IS A MINIMUM OF 1/2" SPACE BETWEEN CABLE AND/OR CONDUIT AND ROOF DECKING.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE FINAL LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS OF HVAC AND PLUMBING EQUIPMENT WITH M.C. AND P.C. PRIOR TO ROUGH-IN.



1 FLOOR PLAN - POWER
 SCALE: 1/4" = 1'-0"

Order Plans @ WWW.DIPLINE.COM

D

C

B

A