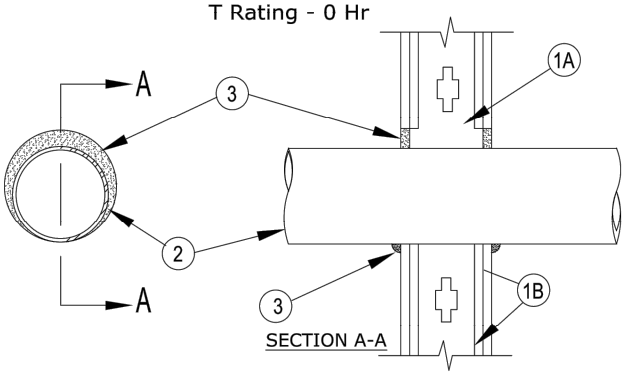
REV	DATE	DESCRIPTION	BY
A	6/6/23	1ST ISSUANCE	MC
△			

3M FIRE STOP
System No.W-L-1146
September 03, 2004
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr



1. Wall Assembly - The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design 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. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. to 6 in. (102 to 152 mm) wider and 4 in. to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is centered in the opening, a 2 in. to 3 in. (51 mm to 76 mm) clearance is present between the penetrating item and the framing in all four sides.

B. **Gypsum Board*** - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. (0 mm to 51 mm). 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 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. **Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

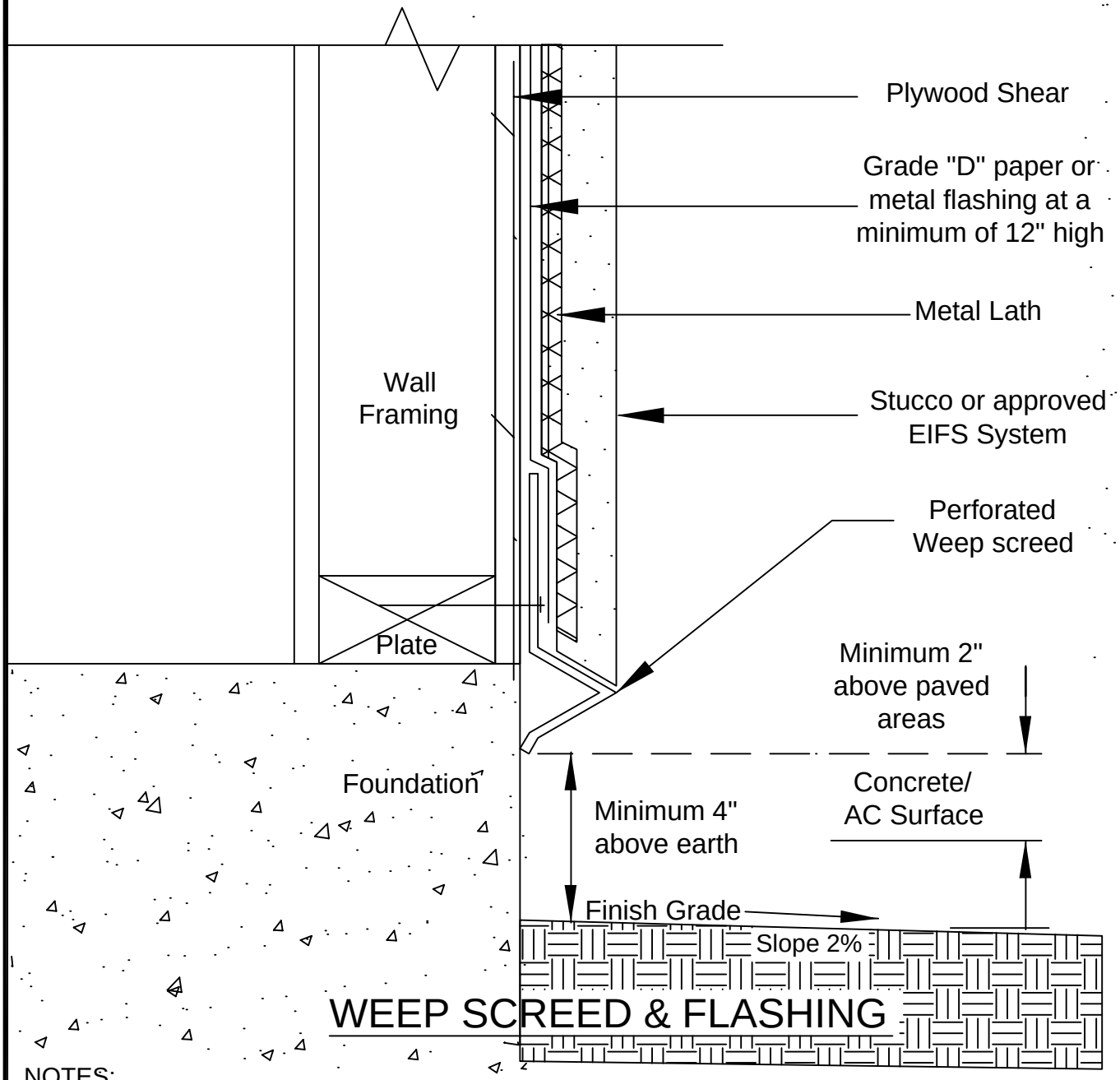
E. **Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Fill,Void or Cavity Materials* - Caulk or Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk or sealant applied to the penetrant/wallboard interface at the point contact location on both sides of wall.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Mark

UNIVERSITY OF CALIFORNIA PHYSICAL PLANNING DEVELOPMENT AND OPERATIONS SANTA CRUZ, CALIFORNIA	SHEET TITLE: FIRE RATED WALL PENETRATION DETAIL BUILDING/ PROJECT: CAMPUS DESIGN GUIDE	SCALE: NTS DRAWN: PPDO CHECKED: N.OTIS	SHEET # 7.29FP 1 OF 1 SHEETS



WEEP SCREED & FLASHING

NOTES:

1. WEEP SCREED SHALL COMPLY WITH ASTM C1063.
2. PROVIDE A MINIMUM OF 26 GALVANIZED SHEET CORROSION-RESISTANT WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2" SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON ALL EXTERIOR STUD WALLS.
3. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE, AND THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE SCREED.
4. WHERE NO EXTERNAL CORNER REINFORCEMENT IS USED, LATH SHALL BE FURRED OUT AND CARRIED AROUND CORNERS AT LEAST ONE SUPPORT ON FRAME CONSTRUCTION.

UNIVERSITY OF CALIFORNIA SANTA CRUZ Physical Planning and Construction	SHEET TITLE: WEEP SCREED & SHT. METAL FLASHING	DRAWN: JO	LOCATION:	FILE NO.: REF
	BUILDING OR PROJECT: CAMPUS STANDARDS	CHECKED: AB	SCALE: N.T.S.	SHEET: 07.6-21
		APPROVED: PP&C	DATE: 01/22/04	OF