

NOTES:

- ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRIC ALLY OR ECCENTRIC ALLY WITHIN THE FIRESTOP SYSTEM. PIP CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL.
- FORMING MATERIAL SHALL BE A MIN. OF 1 1/2" THICK OF MIN. 4.0 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED IN OPENING, USG INTERIORS TOTAL SAF.
- THICKNESS OF SEALANT APPLIED FLUSH W/THE TOP SURFACE OF BOTH SIDES OF FLOOR/WALL (SEE TABLE), USG INTERIORS-TYPE SS.

	FLOOR OR WALL	MIN. THICK.	MAX. PIPE DIA.	MIN. ANNULAR SPACE	MAX. ANNULAR SPACE	MIN. FILL MAT. THICK.	MIN. FORM. MAT. THICK.	FIRE RATING
	FLOOR	3 3/4"	1 1/2"	3/8"	2 1/8"	1"	2 3/4"	2
	FLOOR	3 3/4"	6"	3/8"	3/4"	1"	2 3/4"	2
	FLOOR	3 3/4"	6"	3/8"	1"	2*	1 3/4"	2
	FLOOR	4 1/2"	1 1/2"	3/8"	2 1/8"	1"	3 1/2"	3
ı	FLOOR	4 1/2"	6"	3/8"	3/4"	1"	3 1/2"	3
1	FLOOR	4 1/2"	6"	3/8"	1"	2"	2 1/2"	3

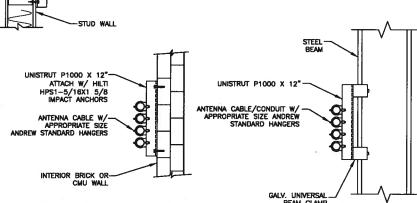
CONDUIT FLOOR PENETRATION DETAIL IN CONCRETE

UNISTRUT P1000 X 12" ATTACH W/ (2)#14 X3" LG. GALV. WD. SCREWS IN WOOD FRAMING OR HILTI SMD 12-24X1 1/4 HWH#4
TO LIGHT GAUGE STEEL

-antenna Cable/Conduit W/ Appropriate Size Andrews Standard Hangers ANTENNA CABLE/CONDUIT W/ APPROPRIATE SIZE ANDREW STANDARD HANGERS

UNISTRUT P1000 X 12" ATTACH WITH 3/8" x 2-1/4"
HILTI HY 150 MAX WITH 4"
MIN. EMBEDMENT 16"O.C. FOR OUTSIDE INSTALLATION

-CONCRETE CEILING/WALL



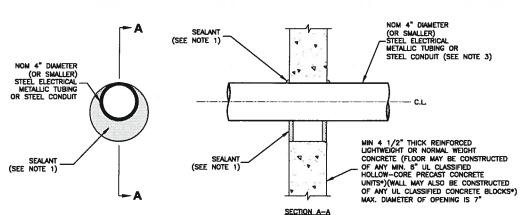
1. ALL COAX SUPPORT SPACING: 4'-0" MAX.

NOTES:

2. ALL CONDUIT SUPPORT SPACING: 10'-0" MAX.

MICROFLECT PN B1927

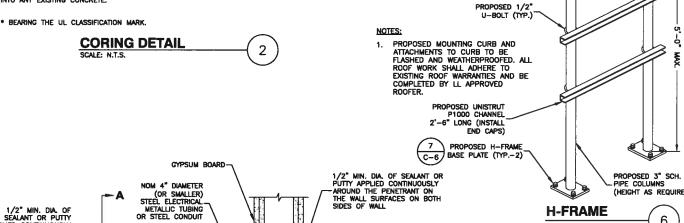
CABLE/CONDUIT SUPPORT

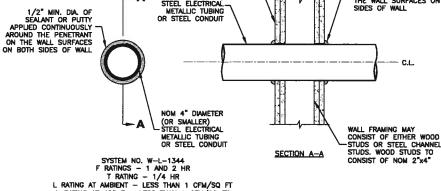


UL SYSTEM NO. C-AJ-1259 F RATING - 3 HR. T RATING - 0 HR.

NOTES:

- FILL, VOID OR CAVITY MATERIAL* SEALANT MIN. 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL AT THE POINT CONTACT LOCATION BETWEEN PENETRATING ITEM AND CONCRETE, A MIN. 1/4" THICK BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/ PENETRATING ITEM INTERFACE ON BOTH SIDES OF FLOOR OR WALL.
- FORMING MATERIAL (OPTIONAL, NOT SHOWN) MINERAL WOOL BATT PACKING MATERIAL OR POLYURETHANE BACKER ROD FRICTION FITTED INTO OPENING AND RECESSED FROM PLOOR OR WALL SURFACES AS REQUIRED TO ACCOMMODATE
- ONE CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE CONDUIT AND THE PERIPHERY OF THE OPENING SHALL BE A MIN. OF O" (POINT OF CONTACT) TO A MAX. OF 3". CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
- CONTRACTOR TO CONFIRM LOCATION OF ANY REBAR PRIOR TO CORING OR DRILLING INTO ANY EXISTING CONCRETE.



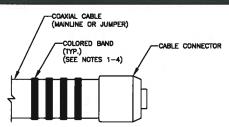


L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

THE 1 AND 2 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS & MANNER SPECIFIED IN THE INDIVIDUAL U3DO OR U400 SERIES WALL & PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY

SECTION - THROUGH PENETRATION FIRESTOP SYSTEM SCALE: N.T.S.

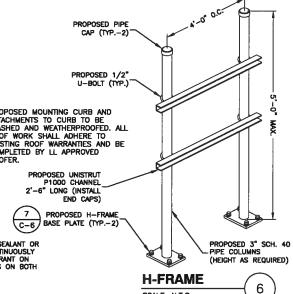
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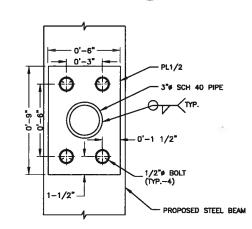


NOTES:

- COLOR CODING SHALL BE PLACED ON BOTH ENDS OF ALL MANILINE COAXIAL CABLES AND ALL JUMPER CABLES NEAR THE CONNECTORS. COLOR CODING SHALL ALSO BE PLACED ON EACH MAINLINE COAX ON THE EXTERIOR OF THE SHELTER NEAR THE CABLE PORT.
- 2. COLORED TAPE SHALL BE MINIMUM 3/4" WIDE.
- 3. THE SPACING BETWEEN THE COLORED BANDS SHALL NOT BE LESS THAN THE THICKNESS OF THE COLORED TAPE.
- 4. COLOR AND QUANTITY OF COLORED BANDS SHALL BE AS SPECIFIED IN THE RF SCHEDULE.

CABLE COLOR CODING DETAIL





H-FRAME BASE PLATE SCALE: 1 1/2"=1' FOR 11"x17





SUITES 13 & 14 FRAMINGHAM, MA 01701

22 KEEWAYDIN DRIVE SALEM, NH 03079

HOLT HALL SITE NO.: ME2980

С	ONSTRUC	TION	DRAWINGS
L			
0	03/15/13	FOR	CONSTRUCTION
Α	03/12/13	FOR	COMMENT

Dewberry*

Dewb	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BORS INC. 80 SUMMER STREET 0TH FLOOR 05TON, MA 02210 HONE: 617-895-3400 A& 617-895-3310
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DRAWN BY:	<u> </u>
REVIEWED BY:	DA
CHECKED BY:	PF
PROJECT NUMBER:	5000393
JOB NUMBER:	5004854
SITE ADDRESS	**

794 CONGRESS STREET PORTLAND, ME 04102

SHEET TITLE

CONSTRUCTION DETAILS-II

SHEET NUMBER