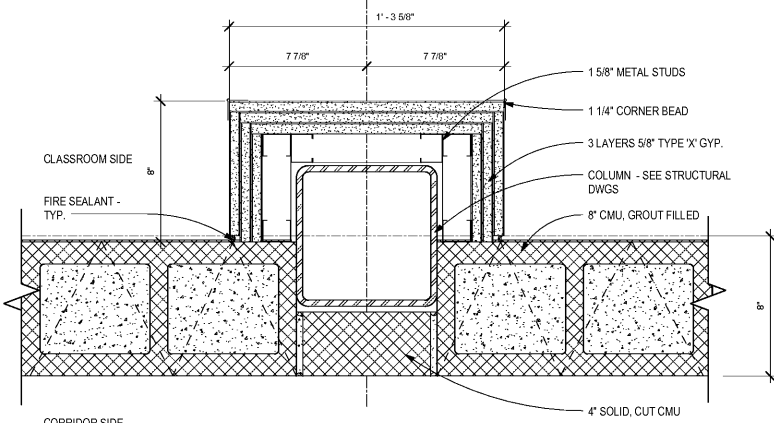
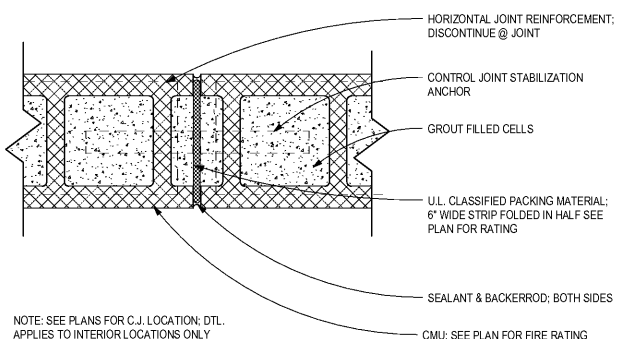


1 TYP CMU COLUMN SURROUND
A-1.12 3' = 1'-0"



4 TYP STUD COLUMN SURROUND
A-1.12 3' = 1'-0"



CMU CONTROL JOINT

NOTE: SEE PLANS FOR C.J. LOCATION; DTL. APPLIES TO INTERIOR LOCATIONS ONLY.

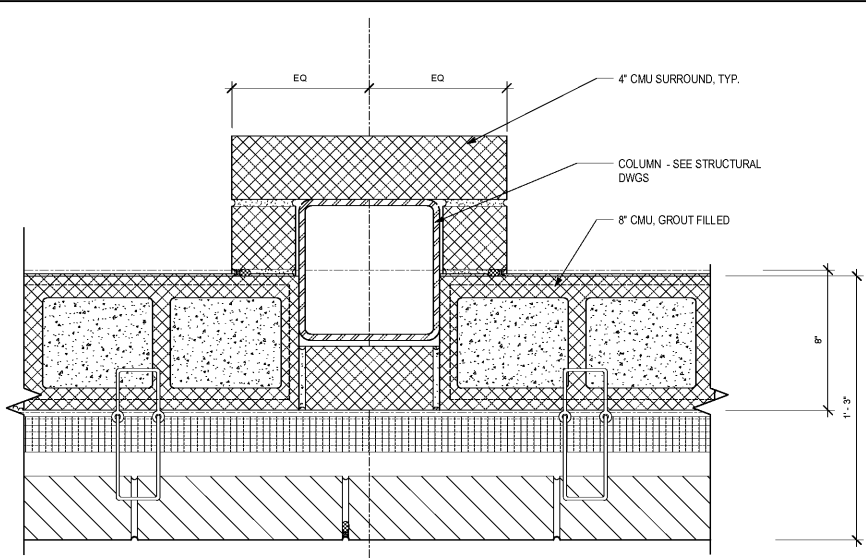
NOTE:
PLEASE REFER TO THE FOLLOWING U.L. LISTED ASSEMBLIES. THEY ARE TYPICAL FOR ALL WALL SECTIONS UNLESS NOTED OTHERWISE.

ROOF/CILING ASSEMBLY (2 HOUR RATING): U.L. #732 - 1/2" SUBSTRATE ROOF FLOOR/CILING ASSEMBLY (2 HOUR RATING): U.L. #702

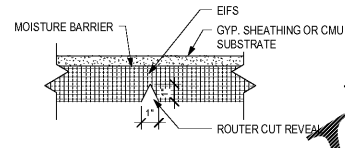
BEARING OR NON-BEARING (2 HOUR RATING): 2012 INTERNATIONAL BUILDING CODE, SECTION 722 AND TABLE 722.3.2 FOR THE PRESCRIPTIVE FIRE RESISTANCE RATINGS REQUIRED FOR 2-HOUR PROTECTION OF A CONCRETE WALL. U.L. #722.1.1 FOR THE PRESCRIPTIVE FIRE RESISTANCE RATINGS REQUIRED FOR 2-HOUR PROTECTION OF A CONCRETE WALL.

COLUMN SURROUND (2 HOUR RATING): COLUMN SURROUND TO HAVE A 2 HOUR, 4" MASONRY OR TYPE 'X' GYP. BD. SURROUND AS SHOWN IN PLAN, OR UNLESS NOTED OTHERWISE. THE MASONRY SURROUND WILL GO TO THE UNDERSIDE OF STRUCTURE WHERE THE COLUMNS OCCUR ALONG A CMU WALL THAT GOES TO THE UNDERSIDE OF STRUCTURE. WHERE THE COLUMNS OCCUR AT A STACKED WALL (CMU TO ABOVE CEILING AND GYPSUM BOARD FROM THERE TO THE DECKING), THE CMU FIRE RATED SURROUND SHALL EXTEND TO THE TOP OF THE ADJACENT CMU PARTITION AND THEN BE SPRAY FIRE-PROOFED FROM THAT HEIGHT TO THE UNDERSIDE OF THE DECK ABOVE. SEE BELOW FOR SPECIFIC TESTING REQUIREMENTS.

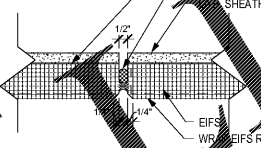
1. SPRAY-APPLIED FIRE RESISTANT MATERIAL - REFER TO U.L. ASSEMBLY #X771 FOR STEEL TUBE SHAPES AND #X772 FOR WIDE FLANGE SHAPES.
2. CONCRETE MASONRY UNIT COLUMN SURROUND - REFER TO 2012 INTERNATIONAL BUILDING CODE, SECTION 722.5 FOR THE THICKNESS OF CONCRETE MASONRY COVER REQUIRED FOR 2 HOUR PROTECTION OF STEEL COLUMNS. ASSUMING A COLUMN IS 8 X 8 X 3/8 WALL, TABLE 722.5 (1) STATES A MINIMUM FOR 2.19 INCHES OF CONCRETE MASONRY IS REQUIRED FOR THE 2-HOUR REQUIRED FIRE RATING.
3. BRICK MASONRY COLUMN SURROUND - REFER TO 2012 INTERNATIONAL BUILDING CODE, SECTION 722.5 FOR THE THICKNESS OF CLAY MASONRY COVER REQUIRED FOR 2 HOUR PROTECTION OF STEEL COLUMNS. ASSUMING A COLUMN IS 8 X 8 X 3/8 WALL, TABLE 722.5 (1) STATES A MINIMUM FOR 2.95 INCHES OF CLAY MASONRY IS REQUIRED FOR THE 2-HOUR REQUIRED FIRE RATING.
4. INTUMESCENT COATING - REFER TO U.L. ASSEMBLY #630 FOR STEEL TUBE SHAPES.



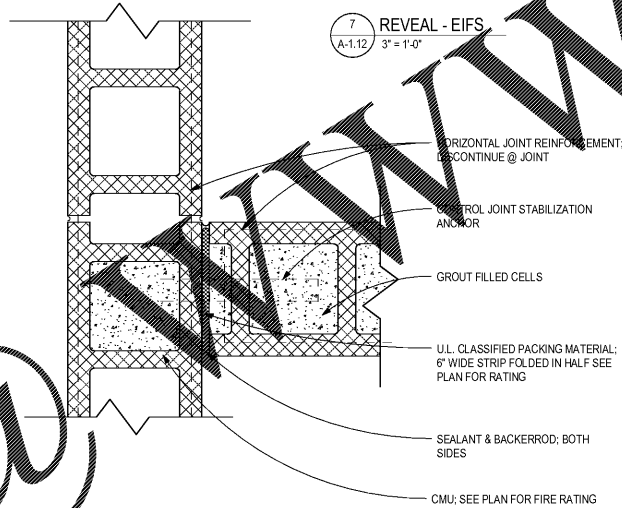
2 EXT CONTROL JOINT - COLUMN
A-1.12 3' = 1'-0"



7 REVEAL - EIFS
A-1.12 3' = 1'-0"



6 CONTROL JOINT - EIFS
A-1.12 3' = 1'-0"



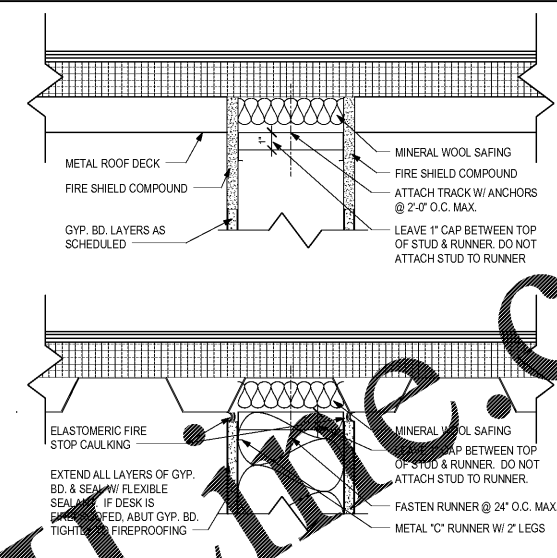
CMU CONTROL JOINT @ INTERSECTION

NOTE: SEE PLANS FOR C.J. LOCATION; DTL. APPLIES TO INTERIOR LOCATIONS ONLY.

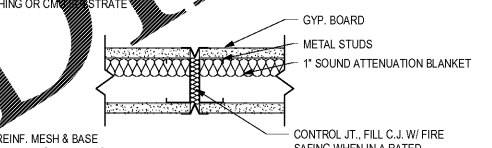
TABLE 722.2.1.1
MINIMUM EQUIVALENT THICKNESS OF CAST-IN-PLACE OR PRECAST CONCRETE WALLS, LOAD-BEARING OR NON-LOAD-BEARING

CONCRETE TYPE	MINIMUM SLAB THICKNESS (inches) FOR FIRE-RESISTANCE RATING OF				
	1	1 1/2	2	3	4
SILICEOUS	3.5	4.3	5.0	6.2	7.0
CARBONATE	3.2	4.0	4.6	5.7	6.6
SAND-LIGHTWEIGHT	2.7	3.3	3.8	4.6	5.4
LIGHTWEIGHT	2.5	3.1	3.6	4.4	5.1

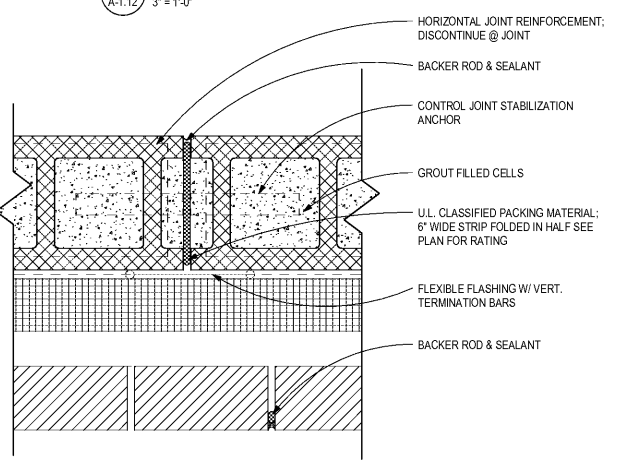
FOR Sl: 1 inch = 25.4 mm.



CONTROL JOINT - FIRE RATED PARTITION HEAD
A-1.12 3' = 1'-0"



CONTROL JOINT - GB
A-1.12 3' = 1'-0"



CMU / BRICK CONTROL JOINT

NOTE: - SEE EXTERIOR ELEVATIONS FOR C.J. LOCATION - SEE TYPICAL PLAN DETAILS FOR WALL EXTERIOR WALL ASSEMBLY

* SEE EQUIVALENT THICKNESS TABLE IN SECTION 722 OF THE 2012 INTERNATIONAL BUILDING CODE FOR SOLID THICKNESS IN INCHES REQUIRED FOR ONE & TWO HOUR FIRE RATINGS. SEE BELOW FOR TABLES.

TABLE 722.3.2
MINIMUM EQUIVALENT THICKNESS (INCHES) OF BEARING OR NON-BEARING CONCRETE MASONRY WALL (A,B,C,D)

TYPE OF AGGREGATE	FIRE-RESISTANCE RATING (HOURS)															
	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	
PUMICE OR EXPANDED SLAG	1.5	1.9	2.1	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7	
EXPANDED SHALE, CLAY OR SLATE	1.8	2.2	2.6	2.9	3.3	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	4.9	5.1	
LIMESTONE, CINDERS OR UNEXPANDED SLAG	1.9	2.3	2.7	3.1	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9	
CALCAREOUS OR SILICEOUS GRAVEL	2.0	2.4	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.8	6.0	6.2	

- VALUES BETWEEN THOSE SHOWN IN THE TABLE CAN BE DETERMINED BY DIRECT INTERPOLATION.
- WHERE COMBUSTIBLE MEMBERS ARE FRAMED INTO THE WALL, THE THICKNESS OF SOLID MATERIAL BETWEEN THE END OF EACH MEMBER AND THE OPPOSITE FACE OF THE WALL, OR BETWEEN MEMBERS SET IN FROM OPPOSITE SIDES, SHALL NOT BE LESS THAN 93 PERCENT OF THE THICKNESS SHOWN IN THE TABLE.
- REQUIREMENTS OF ASTM C 55, ASTM C 73 OR ASTM C 744 SHALL APPLY.
- MINIMUM REQUIRED EQUIVALENT THICKNESS CORRESPONDING TO THE HOURLY FIRE-RESISTANCE RATING FOR UNITS WITH A COMBINATION OF AGGREGATE SHALL BE DETERMINED BY LINEAR INTERPOLATION BASED ON THE PERCENT BY VOLUME OF EACH AGGREGATE USED IN MANUFACTURE.

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09/17/18		SCHEMATIC DEVELOPMENT
10/18/18		SCHEMATIC DEVELOPMENT
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