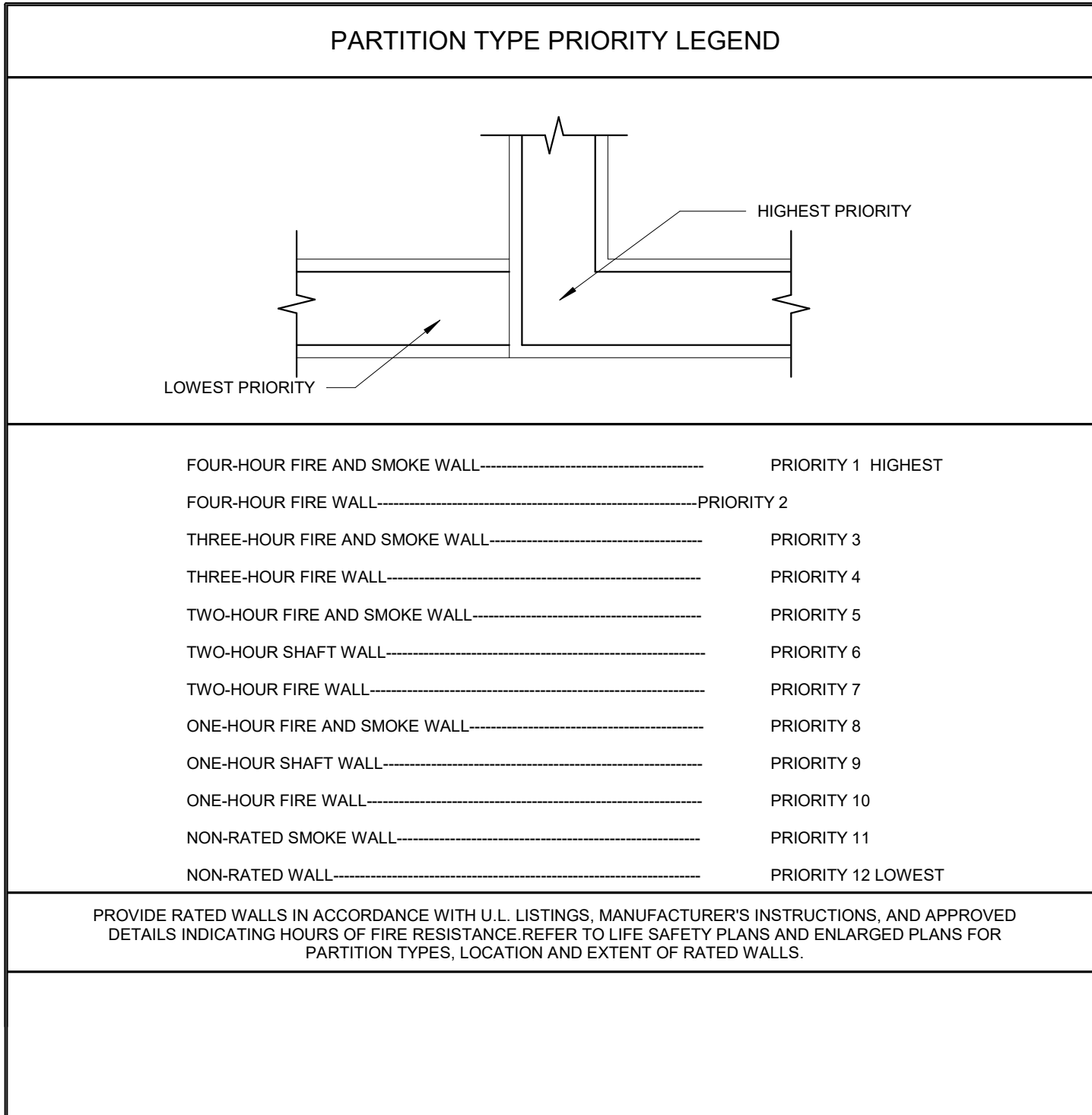
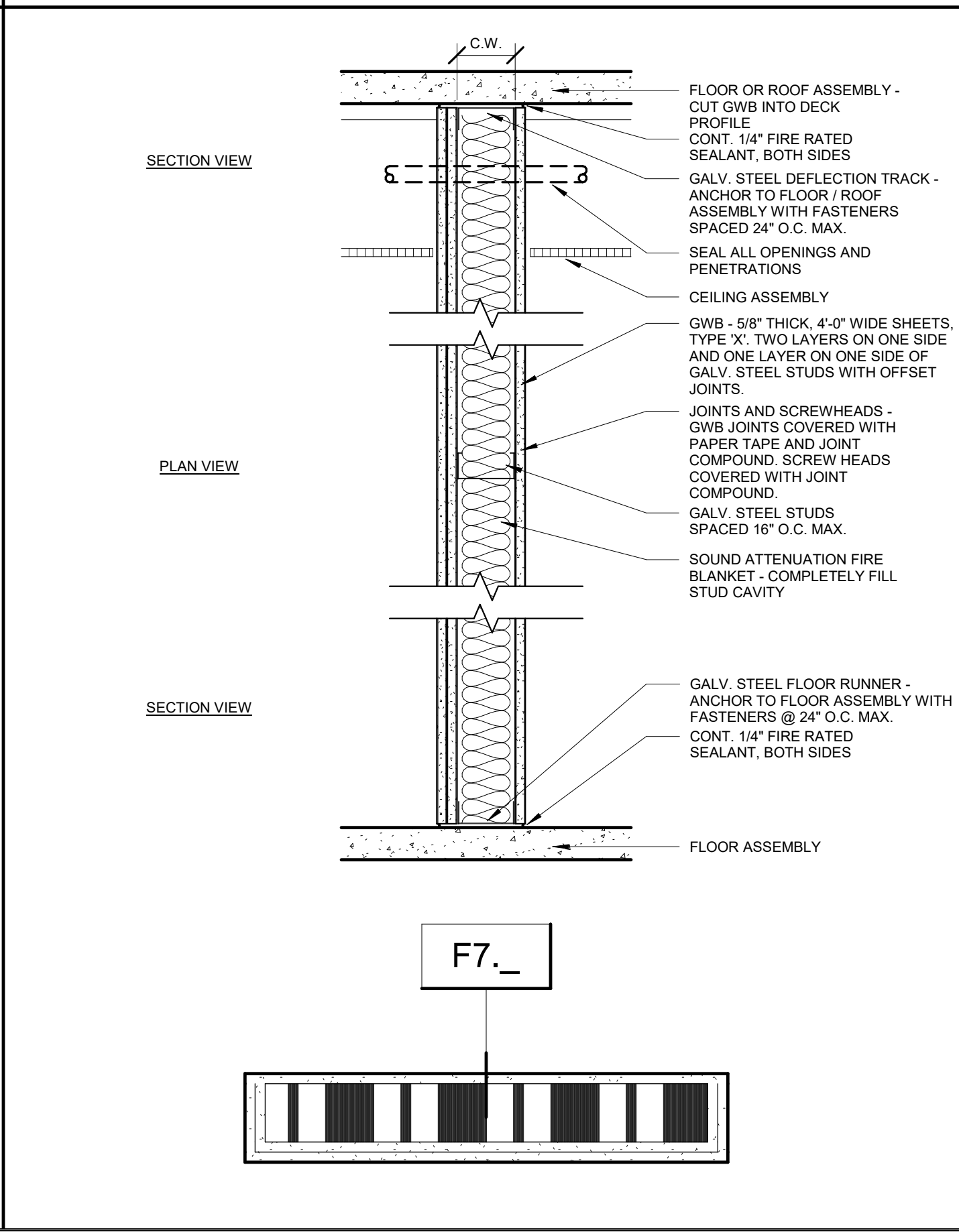
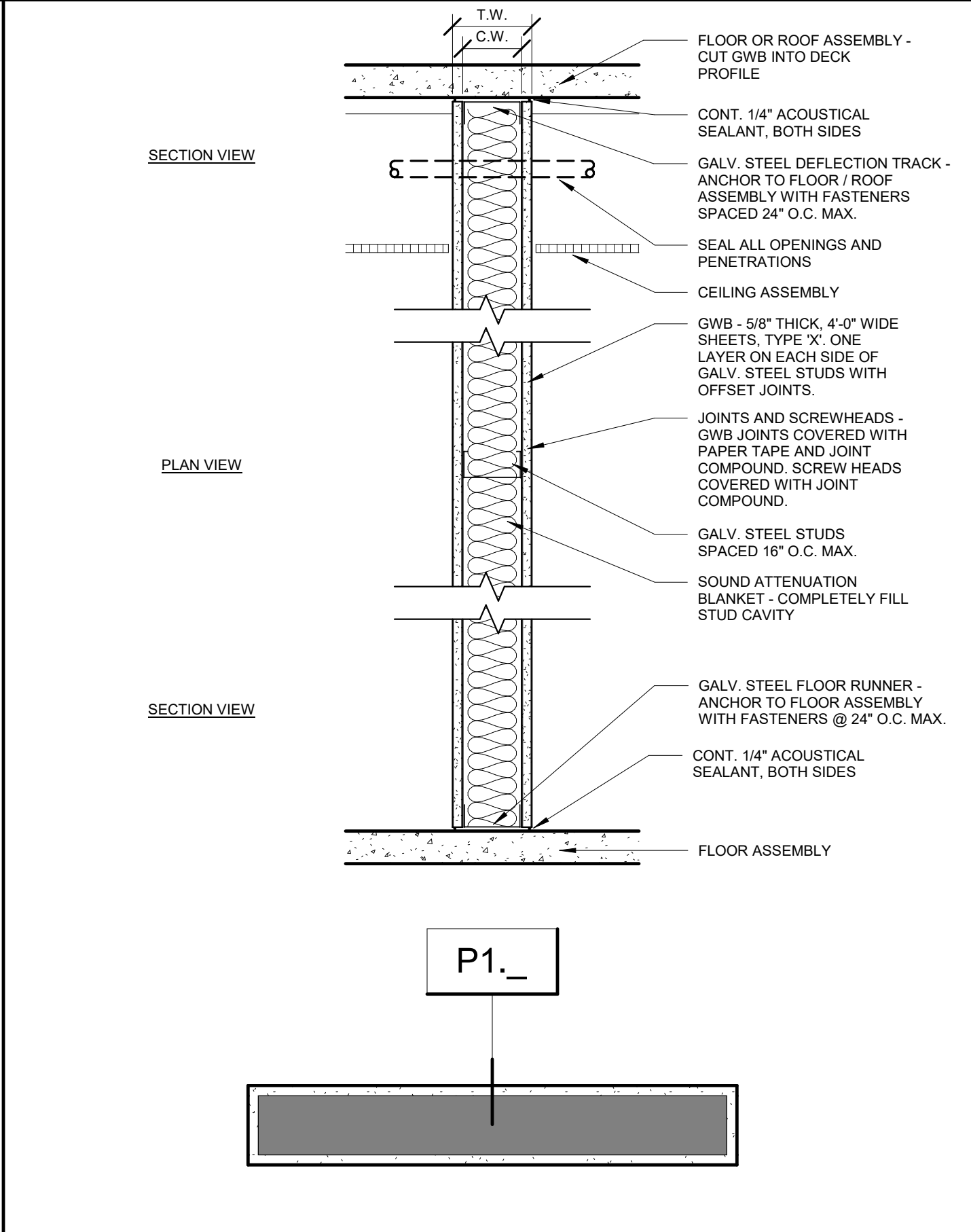
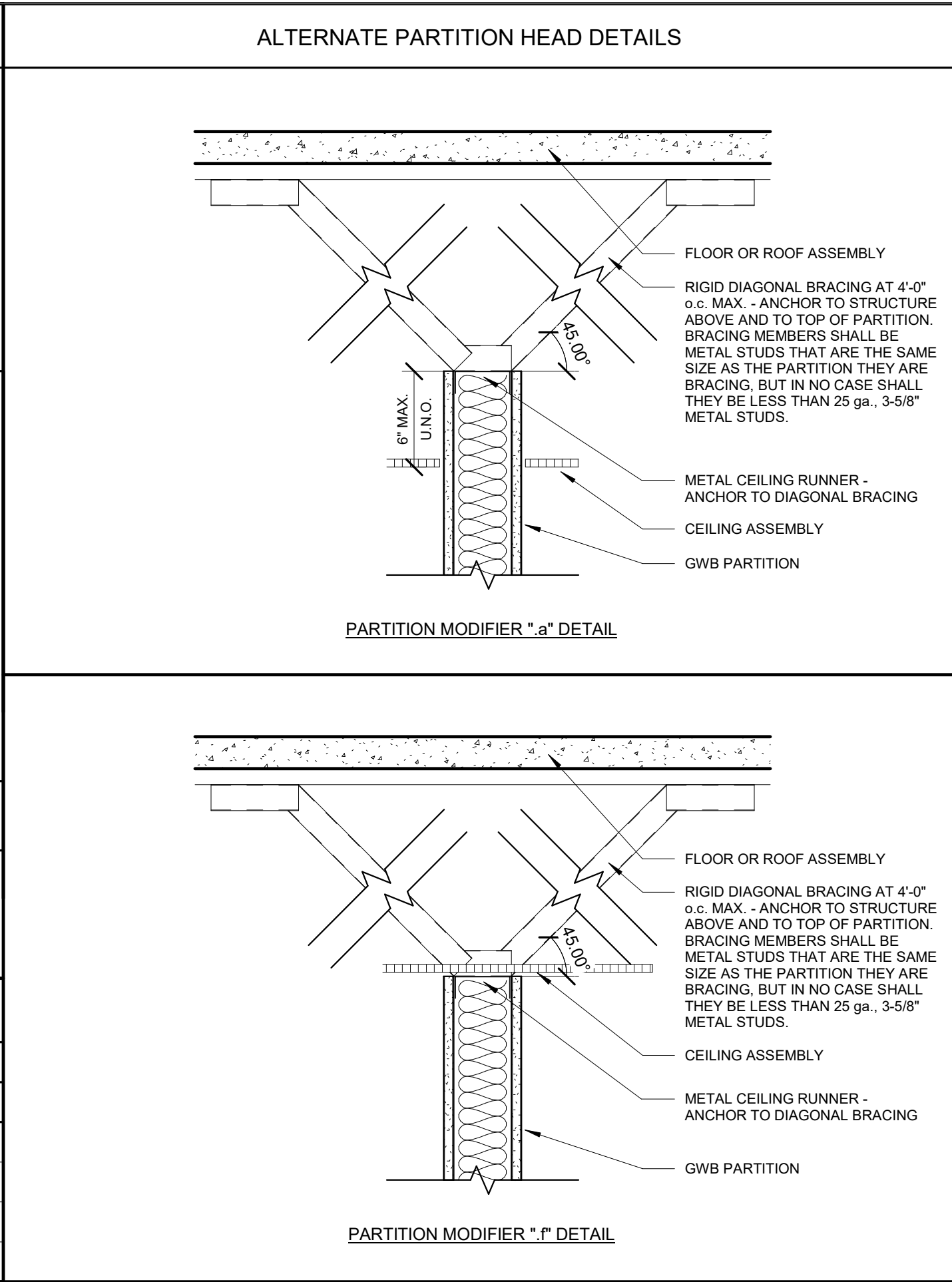
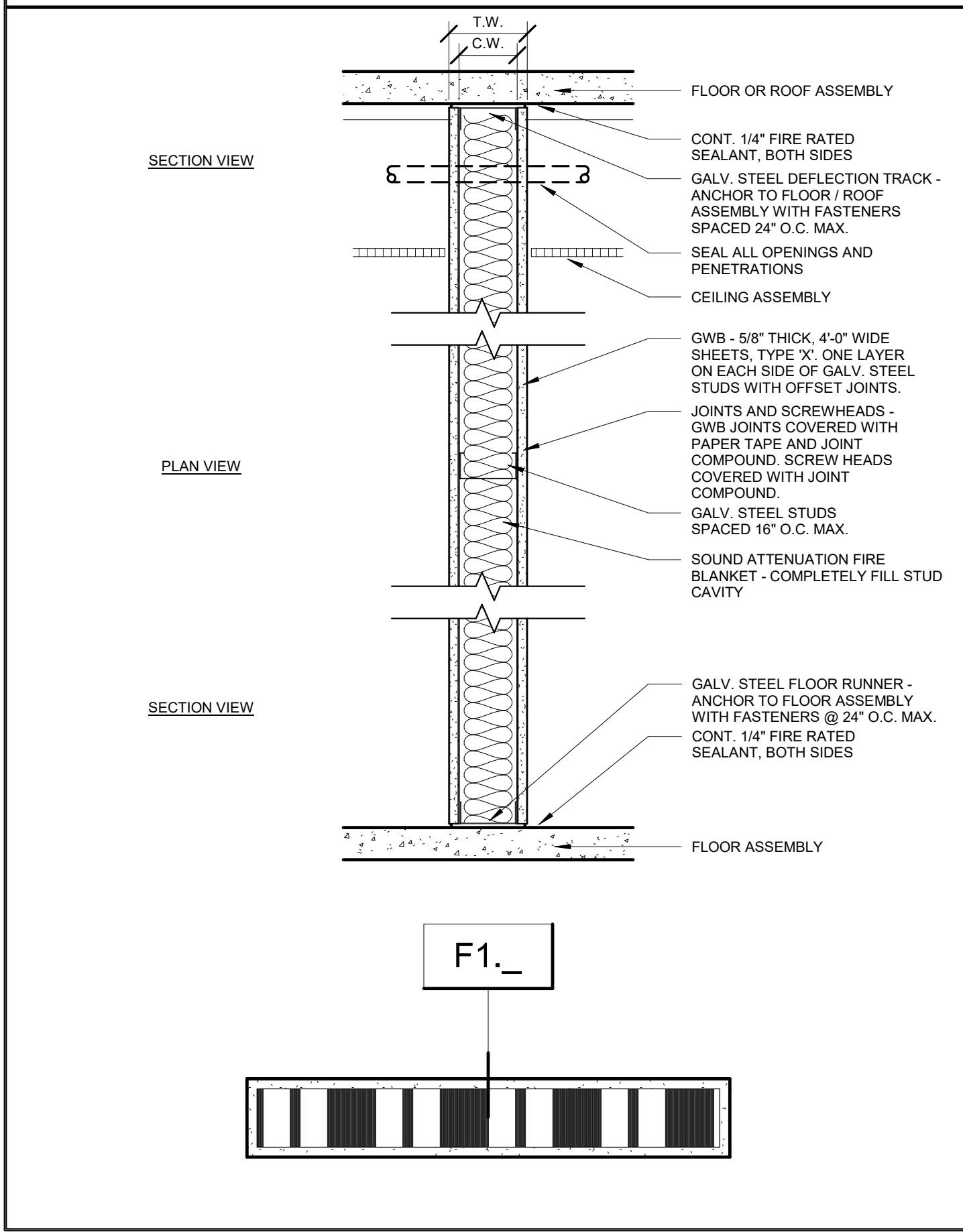
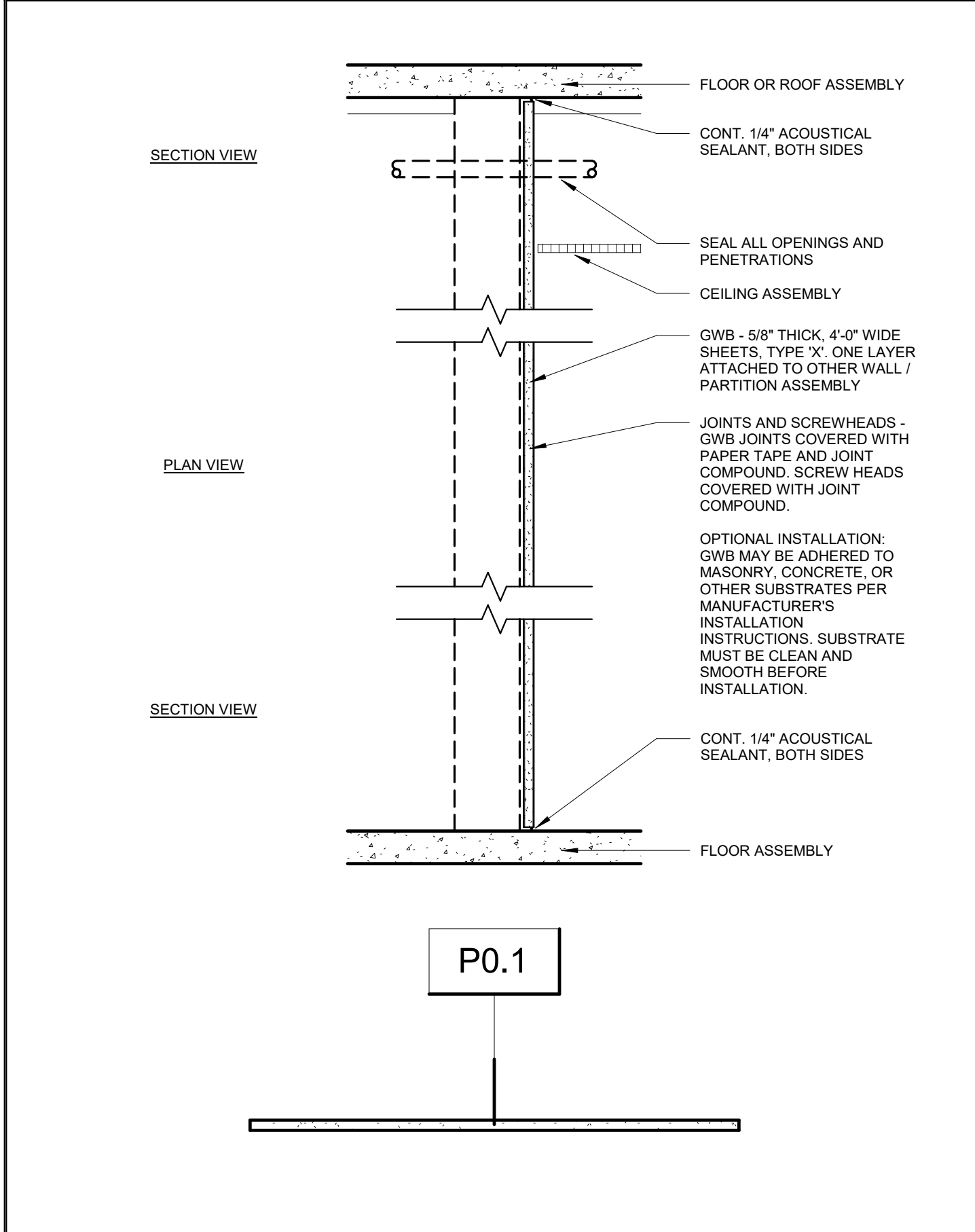




FIRE RESISTANCE OF SINGLE-LAYER CONCRETE WALLS, FLOORS, & ROOFS - PER ACI 216.1-07						ESTIMATED STC RATINGS FOR CMU WALLS						
AGGREGATE TYPE:	MIN. EQUIV. THICK. FOR FIRE RESIST. RATING, IN					WALL THICKNESS, IN	HOLLOW UNITS		GROUT FILLED		SAND FILLED	
	1-HOUR	1.5-HOUR	2-HOUR	3-HOUR	4-HOUR		WEIGHT, LB/FT ²	STC	WEIGHT, LB/FT ²	STC	WEIGHT, LB/FT ²	STC
SILICEOUS	3.5	4.3	5.0	6.2	7.0	4	20	44	38	47	20	46
CARBONATE	3.2	4.0	4.6	5.7	6.6	6	32	46	63	51	32	49
SEMI-LIGHTWEIGHT	2.7	3.3	3.8	4.6	5.4	8	42	48	86	55	42	52
LIGHTWEIGHT	2.5	3.1	3.6	4.4	5.1	10	53	50	109	60	53	55



PARTITION TYPE NOTES

1A. PARTITIONS REQUIRED BY RATING TO EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK SHALL HAVE THE PARTITION FINISH MATERIAL (GWB, CMU, ETC.) CUT TO FIT ALL SURFACES WITH A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK AND BE CONTINUOUSLY SEALED WITH SPECIFIED FIRE RATED SEALANT.

1B. NON RATED PARTITIONS REQUIRED BY DRAWINGS TO EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK SHALL HAVE THE PARTITION FINISH MATERIAL (GWB, CMU, ETC.) CUT TO FIT ALL SURFACES WITH A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK AND BE CONTINUOUSLY SEALED WITH SPECIFIED ACOUSTICAL SEALANT.

2A. RATED PARTITIONS WITH ELECTRICAL OUTLETS, SWITCH BOXES, TELEPHONE BOXES, AND OTHER SIMILAR DEVICES SHALL HAVE THE PARTITION FINISH MATERIAL (GWB, CMU, ETC.) CUT TO WITHIN A 1/8" TOLERANCE AND SHALL BE CONTINUOUSLY SEALED WITH SPECIFIED FIRE RATED SEALANT.

2B. NON RATED PARTITIONS WITH ELECTRICAL OUTLETS, SWITCH BOXES, TELEPHONE BOXES, AND OTHER SIMILAR DEVICES SHALL HAVE THE PARTITION FINISH MATERIAL (GWB, CMU, ETC.) CUT TO WITHIN A 1/8" TOLERANCE AND SHALL BE CONTINUOUSLY SEALED WITH SPECIFIED ACOUSTICAL SEALANT.

3A. AT NON-RATED PARTITIONS AND GWB FURRING, CARRY GWB TO STRUCTURAL DECK AT LOCATIONS WITH EXPOSED STRUCTURE.

3B. AT NON-RATED PARTITIONS AND GWB FURRING, SEE PARTITION TYPES FOR PARTITION TERMINATION DETAIL AT LOCATIONS WITH CEILINGS.

4A. THE BOTTOM EDGE OF ALL GYPSUM BOARD SURFACES ON RATED WALLS SHALL BE PLACED TO WITHIN 1/4" OF THE UNFINISHED FLOOR SURFACE AND SHALL BE CONTINUOUSLY SEALED WITH SPECIFIED FIRE RATED SEALANT.

4B. THE BOTTOM EDGE OF ALL GYPSUM BOARD SURFACES ON NON RATED WALLS SHALL BE PLACED TO WITHIN 1/4" OF THE UNFINISHED FLOOR SURFACE AND SHALL BE CONTINUOUSLY SEALED WITH SPECIFIED ACOUSTICAL SEALANT.

5. SMOKE PARTITIONS SHALL EXTEND FROM THE FLOOR TO THE UNDERSIDE OF THE FIRE RESISTANT RATED FLOOR/CEILING ASSEMBLY OR FIRE RESISTANT RATED ROOF/CEILING ASSEMBLY OR THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE. DOORS SHALL BE SELF-CLOSING OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE. DOORS SHALL NOT HAVE AIR TRANSFER OPENINGS AND SHALL NOT BE UNDERCUT IN EXCESS OF THE CLEARANCE PERMITTED IN ACCORDANCE WITH NFPA 80.

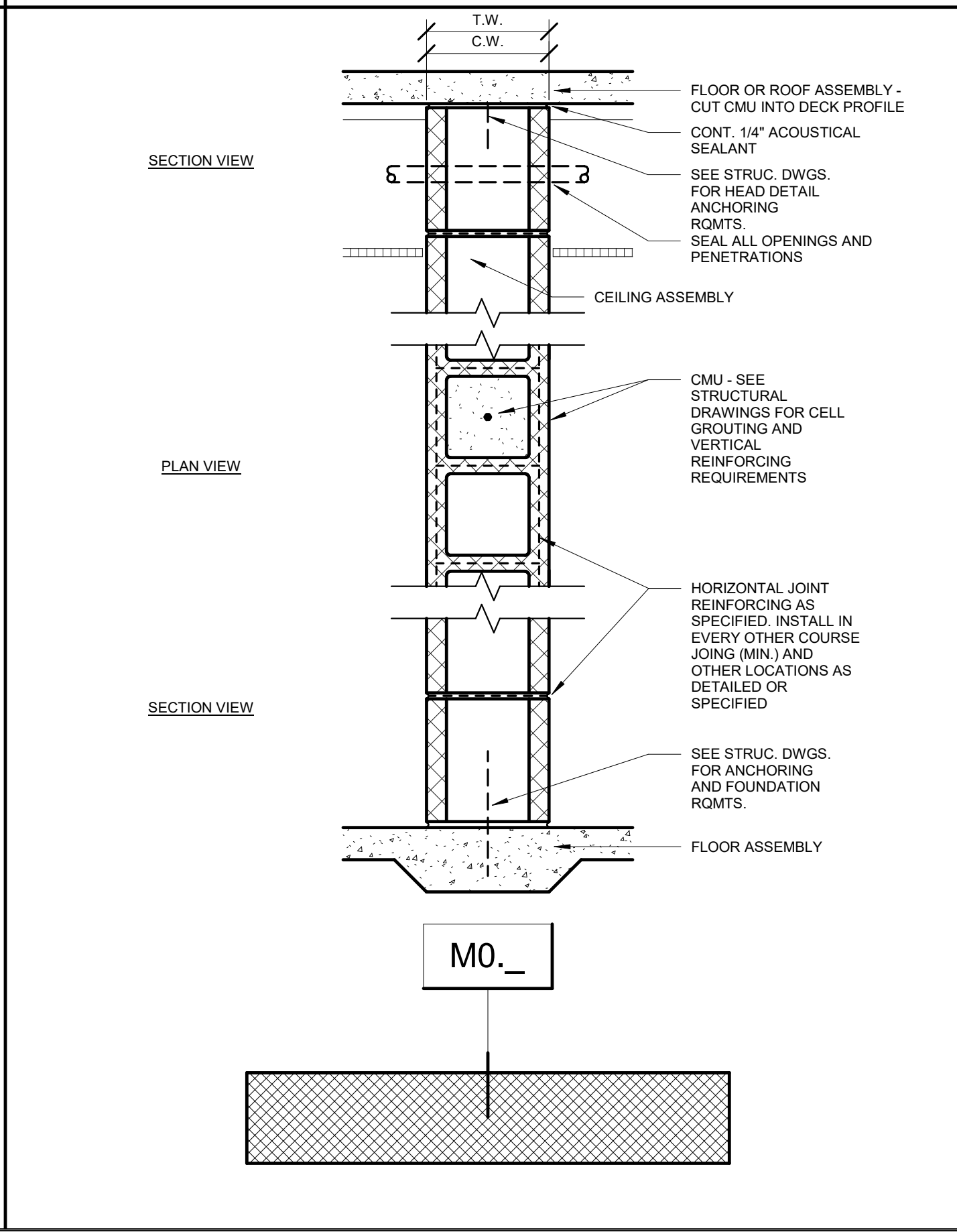
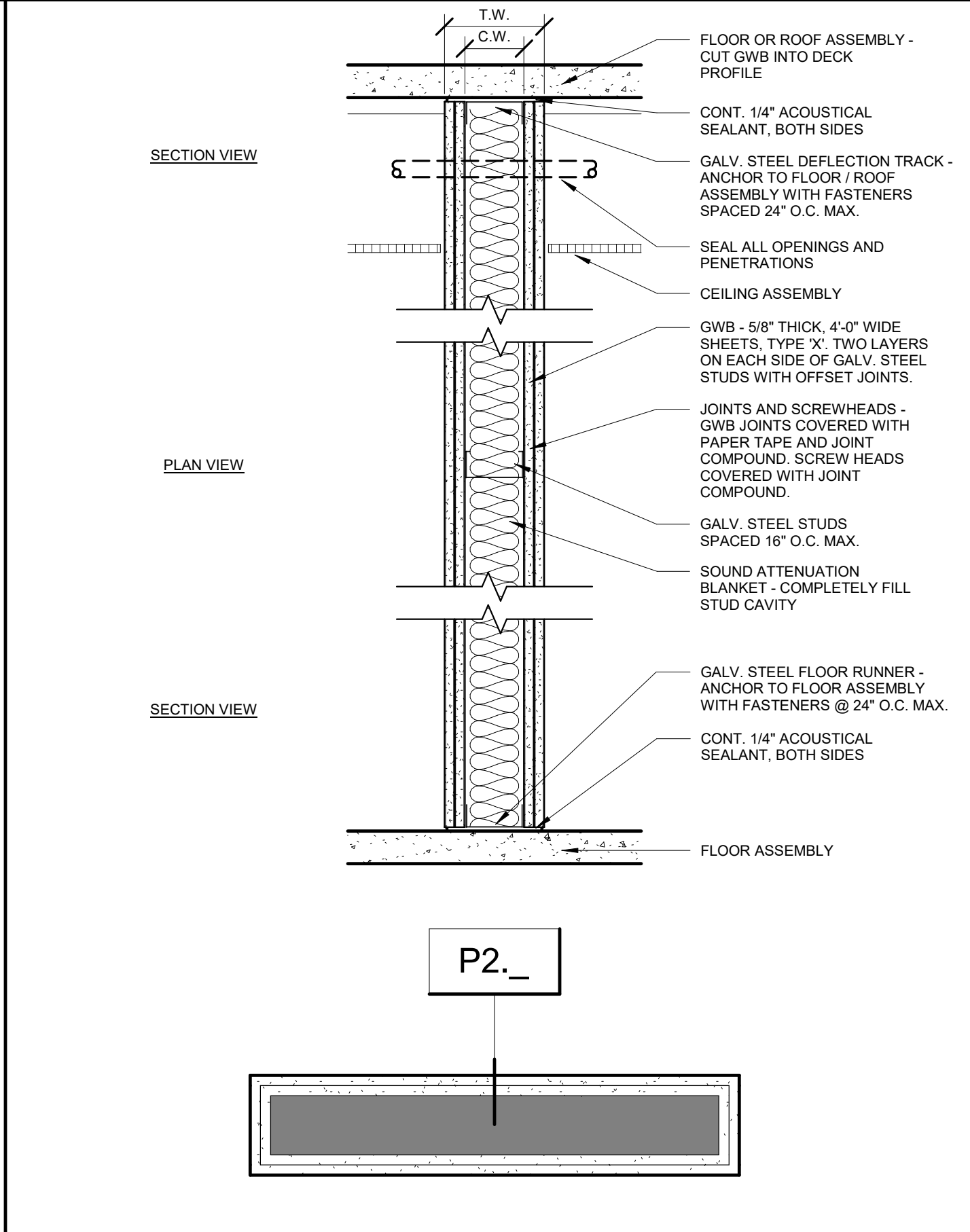
6. AT ALL RATED PARTITIONS, STENCIL RATING ON WALLS ABOVE CEILING. STENCILING SHALL BE A MINIMUM OF 4" HIGH LETTERING. DESIGNATE THE SPECIFIED RATING OF THE PARTITION AND BE PLACED AT AN INCREMENT EASILY LOCATED DURING INSPECTION, AND NOT OVER 12" O.C. HORIZONTALLY. EXAMPLE: STENCIL WORKING "1 HOUR FIRE RATED, PROTECT ALL OPENINGS."

7A. UNLESS OTHERWISE SPECIFIED, ALL SOUND ATTENUATION BLANKETS SHALL BE UNFACED MINERAL FIBER BLANKET INSULATION. FIBERGLASS TYPE SOUND ATTENUATION BLANKET IS NOT ACCEPTABLE.

7B. UNLESS OTHERWISE SPECIFIED, ALL SOUND ATTENUATION BLANKETS SHALL BE MIN. 3.0 PCF.

7C. UNLESS OTHERWISE SPECIFIED, ALL SOUND ATTENUATION BLANKETS SHALL BE SIZED ACCORDING TO THE FOLLOWING SCHEDULE

NOMINAL SIZES	1-5/8" STUDS - 1" SOUND ATTENUATION BLANKET	2-1/2" STUDS - 2" SOUND ATTENUATION BLANKET	3-5/8" STUDS - 3" SOUND ATTENUATION BLANKET	4" STUDS AND LARGER - 6" SOUND ATTENUATION BLANKET
0	7/8"	-	-	-
1	1-5/8"	0.75"	-	-
2	2-1/2"	1.5"	-	2.5"
3	3-5/8"	2.5"	-	-
4	4"	3.5"	3.625"	4"
5	-	-	-	-
6	6"	5.5"	5.625"	6"
7	-	-	-	7.25"
8	8"	7.25"	7.625"	-
9	-	-	-	9.25"
10	10"	9.25"	-	-
12	12"	11.25"	11.625"	-



PARTITION TYPE TAG NOTES

FIRST DESIGNATOR - PARTITION TYPE CATEGORY (SEE LIST BELOW)

SECOND DESIGNATOR - WALL CONSTRUCTION TYPE (SEE DETAIL)

THIRD DESIGNATOR - NOMINAL CORE SIZE CATEGORY (SEE CHART BELOW)

FOURTH DESIGNATOR - MODIFIER (SEE LIST BELOW)

F1.3.r

PARTITION TYPE CATEGORY (FIRST DESIGNATOR):

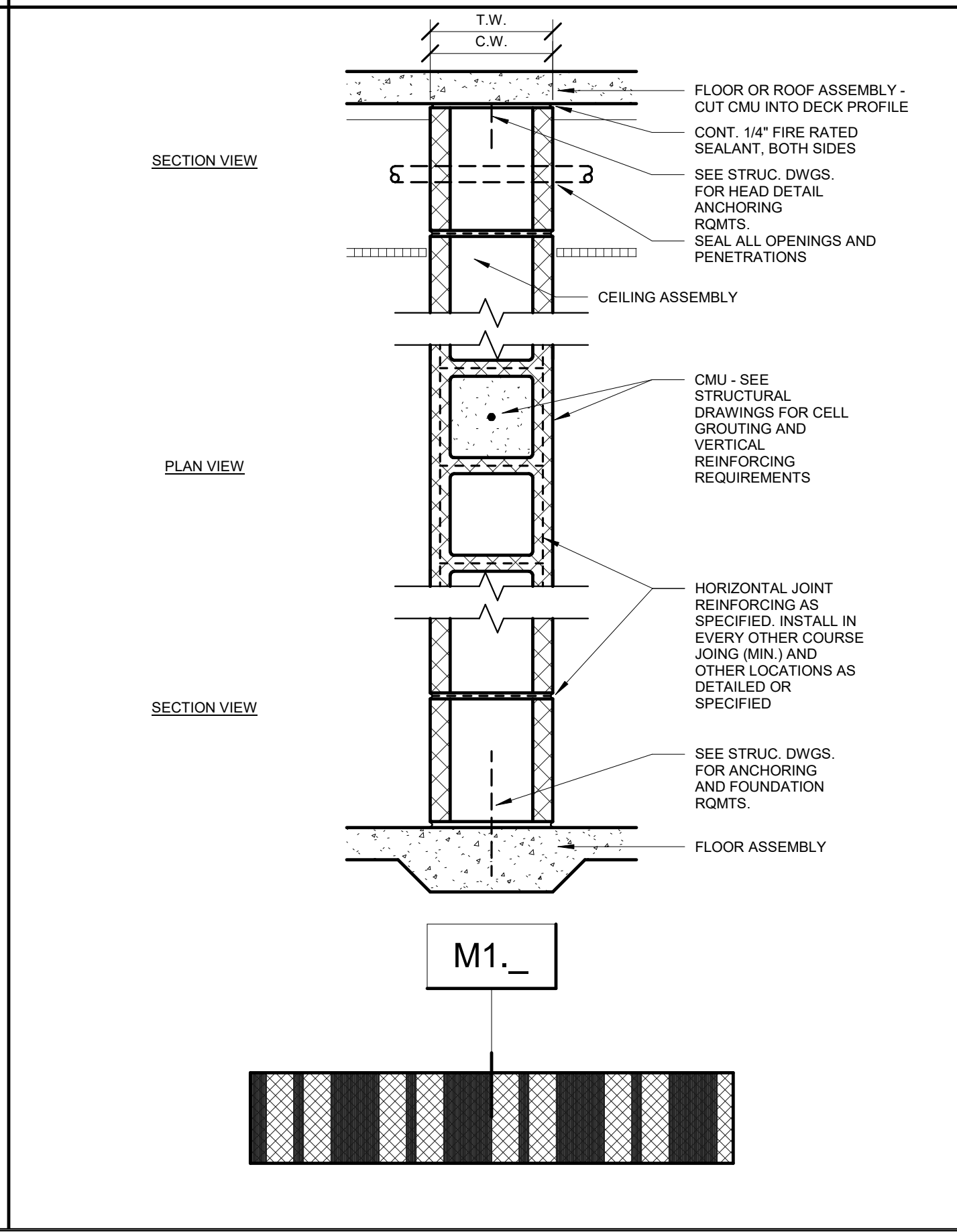
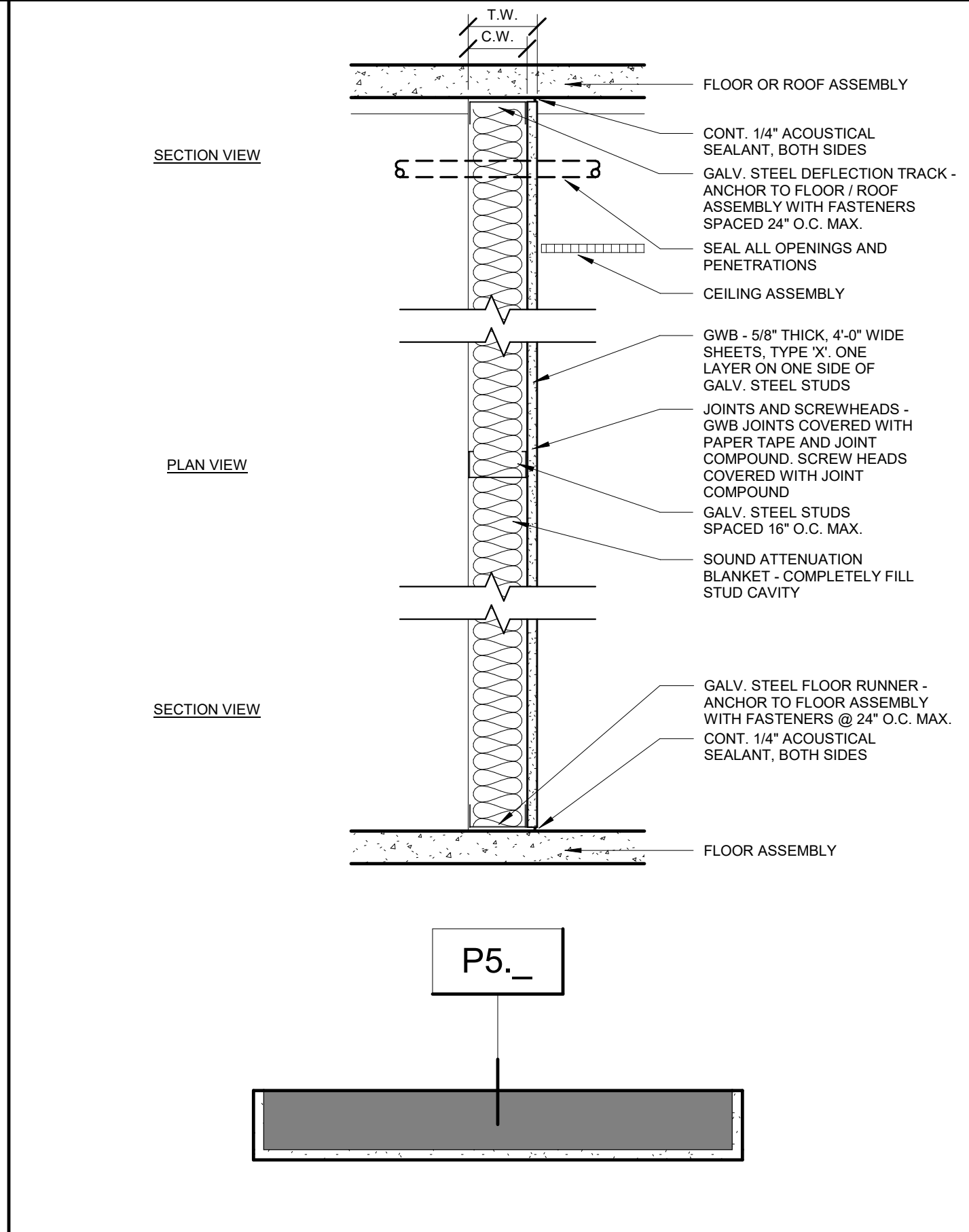
C	CONCRETE WALL (CAST IN PLACE)
D	DEMOUNTABLE PARTITION
E	GWB PARTITION WITH METAL STUDS - FIRE RATED
F	GWB PARTITION WITH METAL STUDS - CHASE WALL
G	GLASS
H	MASONRY WALL
I	GWB PARTITION WITH METAL STUDS - NON FIRE RATED
J	GWB PARTITION WITH METAL STUDS - SHAFT WALL
K	TILT UP CONCRETE WALL (OR PRECAST CONCRETE WALL)
L	GWB PARTITION WITH WOOD STUDS
M	GENERIC EXISTING WALL

MODIFIERS (FOURTH DESIGNATOR):

a	Height of Partition Shall be 6" Above Ceiling, U.N.O.
b	Height of Partition Shall be 6" Tall
c	Fill Nongrouted CMU Cells with Spray Foam Insulation
d	Height of Partition Shall be 2" Tall
e	Height of Partition Shall be Flush to Ceiling Above
f	Height of Partition Shall be 4" Tall
g	Height of Partition Shall be Flush to Ceiling Above
h	Height of Partition Shall be Flush to Ceiling Above
i	Height of Partition Shall be Flush to Ceiling Above
j	Height of Partition Shall be Flush to Ceiling Above
k	Height of Partition Shall be Flush to Ceiling Above
l	Height of Partition Shall be Flush to Ceiling Above
m	Height of Partition Shall be Flush to Ceiling Above
n	Height of Partition Shall be Flush to Ceiling Above
o	Height of Partition Shall be Flush to Ceiling Above
p	Height of Partition Shall be Flush to Ceiling Above
q	Height of Partition Shall be Flush to Ceiling Above
r	Height of Partition Shall be Flush to Ceiling Above
s	Height of Partition Shall be Flush to Ceiling Above
t	Height of Partition Shall be Flush to Ceiling Above
u	Height of Partition Shall be Flush to Ceiling Above
v	Height of Partition Shall be Flush to Ceiling Above
w	Height of Partition Shall be Flush to Ceiling Above
x	Height of Partition Shall be Flush to Ceiling Above
y	Height of Partition Shall be Flush to Ceiling Above
z	Height of Partition Shall be Flush to Ceiling Above

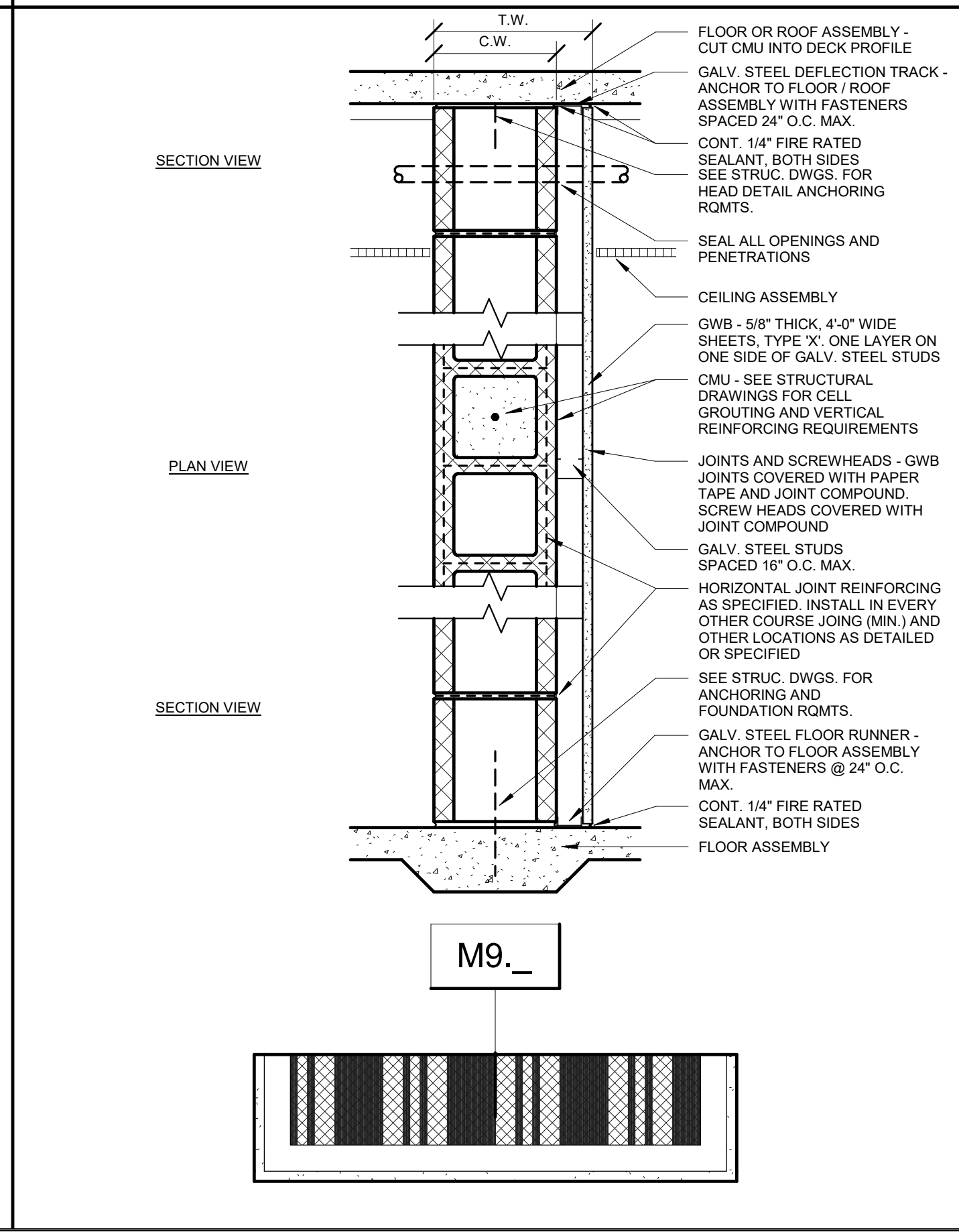
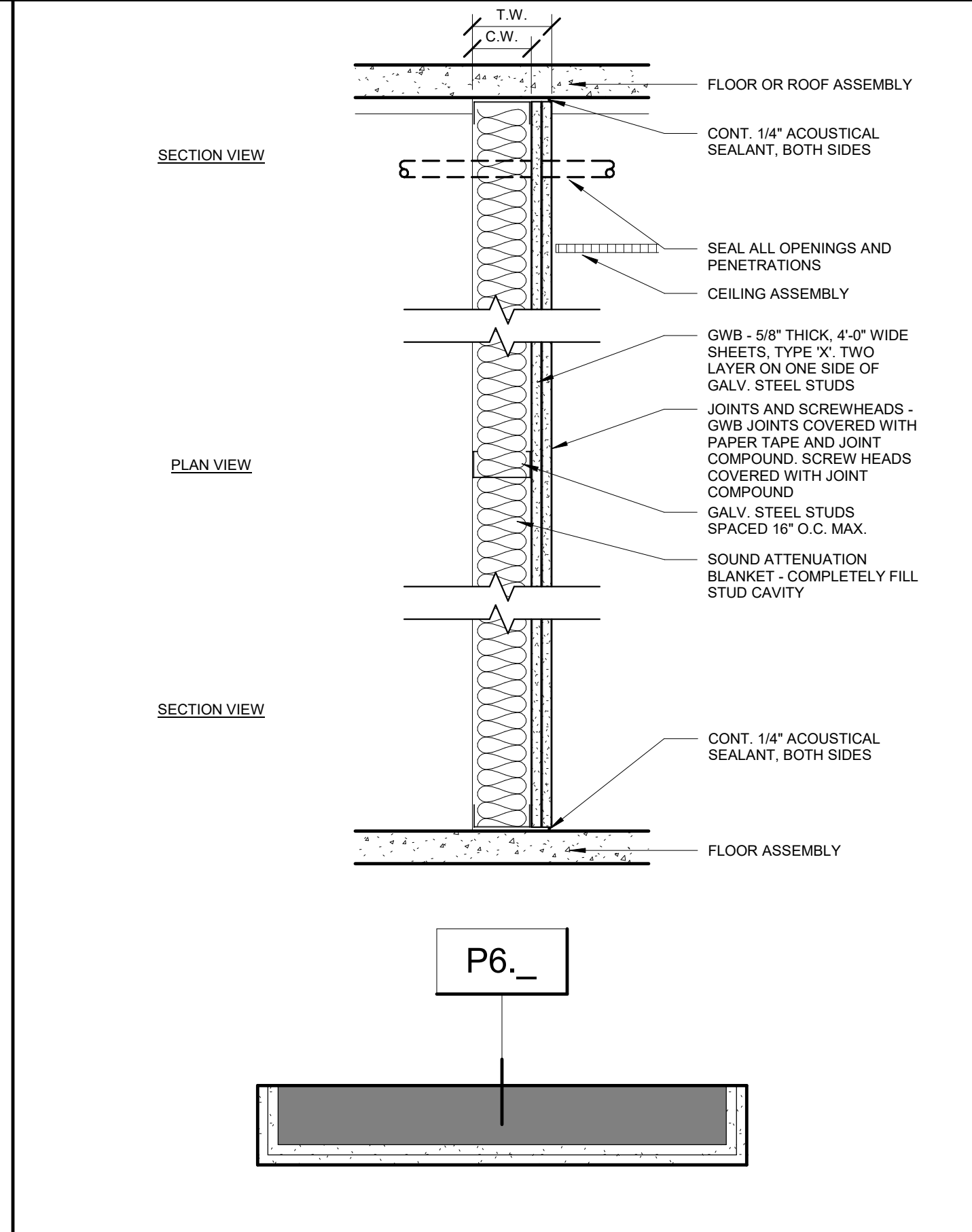
NOMINAL CORE SIZE CATEGORY (THIRD DESIGNATOR)

NOMINAL SIZES	METAL STUDS	WOOD STUDS	CMU / GLASS BLOCK	METAL CH STUDS	TILT UP CONC. WALL	RESERVED FOR FUTURE USE	RESERVED FOR FUTURE USE
0	7/8"	-	-	-	-	-	-
1	1-5/8"	0.75"	-	-	-	-	-
2	2-1/2"	1.5"	-	2.5"	-	-	-
3	3-5/8"	2.5"	-	-	-	-	-
4	4"	3.5"	3.625"	4"	-	-	-
5	-	-	-	-	5.5"	-	-
6	6"	5.5"	5.625"	6"	-	-	-
7	-	-	-	-	7.25"	-	-
8	8"	7.25"	7.625"	-	-	-	-
9	-	-	-	-	9.25"	-	-
10	10"	9.25"	-	-	-	-	-
12	12"	11.25"	11.625"	-	-	-	-



PARTITION TYPE SCHEDULE

Type Mark	Core Material	Core Width (C.W.)	Width (T.W.)	Fire Rating	Fire Test #	STC	Sound Test #	Comments
F - GWB Partition with Metal Studs - Fire Rated								
F1.3	Metal Studs	3 5/8"	4 7/8"	1 HR	ULF U419	45-49	RA-870217	
F2.3	Metal Studs	3 5/8"	6 1/8"	2 HR	ULF U419	55-59	USG-840818	
F7.8	Metal Studs	8"	9 7/8"	1 HR	ULF U419	50-54	RAL TL88-55	
H - GWB Partition with Metal Studs - Chase Wall								
H5.3	Metal Studs	3 5/8"	1" - 2 3/4"			65-69	USG STC-050819	
M - Masonry								
M1.8	CMU	7 5/8"	7 5/8"	1 HR	ACI 216.1	43-51	TMS 0302-07	
M6.8	CMU	7 5/8"	9 7/8"	1 HR	ACI 216.1	43-51	TMS 0302-07	
M9.8	CMU	7 5/8"	9 7/8"	2 HR	ACI 216.1	43-51	TMS 0302-07	
M9.12	CMU	11 5/8"	1" - 1 7/8"	2 HR	ACI 216.1	43-51	TMS 0302-07	
P - GWB Partition with Metal Studs - Non Fire Rated								
P0.1	GWB	5/8"	5/8"			45-49	RAL TL89-42	
P1.3	Metal Studs	3 5/8"	4 7/8"			45-49	RAL TL89-42	
P1.3.a	Metal Studs	3 5/8"	4 7/8"			45-49	RAL TL89-42	
P1.3.b	Metal Studs	3 5/8"	4 7/8"			45-49	RAL TL89-42	
P1.8	Metal Studs	8"	9 1/4"			45-49	RAL TL89-42	
P2.8	Metal Studs	8"	10 1/2"			55-59	USG-840818	
P5.8	Metal Studs	5 1/2"	9"			55-59	USG-840818	
P5.1	Metal Studs	1 5/8"	2 1/4"			28-30	Estimated	
P5.3	Metal Studs	3 5/8"	4 1/4"			28-30	Estimated	
P5.3.a	Metal Studs	3 5/8"	4 1/4"			28-30	Estimated	
P5.3.b	Metal Studs	3 5/8"	4 1/4"			28-30	Estimated	
P5.6	Metal Studs	6"	6 5/8"			28-30	Estimated	
P5.6.a	Metal Studs	6"	6 5/8"			28-30	Estimated	
P5.6.b	Metal Studs	6"	6 5/8"			28-30	Estimated	
P6.8	Metal Studs	8"	9 1/4"			31-33	Estimated	



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REGISTERED ARCHITECT

CRAIG A. KRAWCZYK

NO. 10048

STATE OF ARKANSAS

CALVARY CHURCH

CALVARY CHURCH FACILITY ADDITION

BENTONVILLE, AR

Revisions

No.	Description	Date
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Project Number

21010

Date

08/12/2025

PARTITION TYPES

A0.10