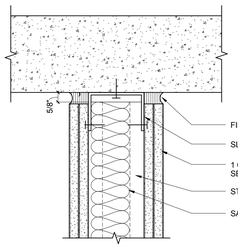
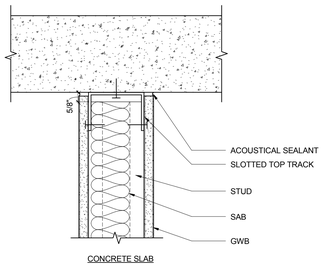


DESIGN BASIS: UL-HW-D-0082
CONCRETE SLAB

DETAIL 1A - "FIRE-RATED WALLS"- ADDITIONAL NOTES:
1. CONDITIONS INDICATED TO SHOW DESIGN INTENT. THEY ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR A UL-APPROVED TOP-OF-WALL DESIGNS THAT ARE APPROPRIATE FOR CONDITIONS.
2. REFER TO SECTION 07270 / FIRESTOPPING FOR ADDITIONAL REQUIREMENTS REGARDING HEAD-OF-WALL CONDITION FOR FIRE-RATED WALLS.

1A HEAD-OF-WALL CONDITIONS - STUD WALLS - FIRE RATED WALLS

3" = 1'-0"

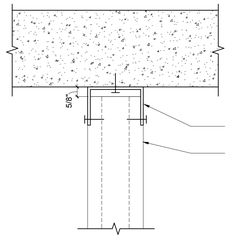


CONCRETE SLAB

DETAIL 1B - "SMOKE PARTITIONS AND SOUND-CONTROL WALLS"- ADDITIONAL NOTES:
1. UPGRADE TO DETAIL "1A" WHERE WALL IS DESIGNATED WITH A FIRE-RESISTANCE RATING.
2. FILL VOIDS WITH SOUND ATTENUATION BATTS (SAB).
3. SOUND WALLS AND SMOKE PARTITIONS REQUIRE THAT AT LEAST ONE LAYER OF GWB BE CUT TO FOLLOW UNDULATING SURFACES OF SUPERSTRUCTURES INCLUDING BUT NOT LIMITED TO FLUTES METAL DECKING. JOINT GWB TO SUPERSTRUCTURE WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
4. BUILDING CODE REQUIRES THAT "SMOKE PARTITIONS" BE SEALED TO STRUCTURE AS INDICATED TO SUCCESSFULLY "....LIMIT THE PASSAGE OF SMOKE....".

1B HEAD-OF-WALL CONDITIONS - STUD WALLS - SMOKE PARTITIONS AND SOUND CONTROL WALLS

3" = 1'-0"

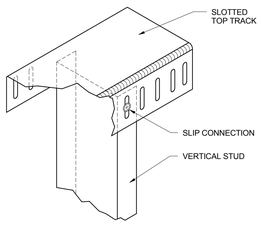


CONCRETE SLAB

DETAIL 1C - "OTHER WALLS" - ADDITIONAL NOTES:
1. UPGRADE TO DETAIL "1A" WHERE WALL IS DESIGNATED WITH A FIRE-RESISTANCE RATING.
2. UPGRADE TO DETAIL "1B" WHERE WALL IS DESIGNATED AS A "SMOKE PARTITION" OR "SOUND-CONTROL" WALL.

1C HEAD-OF-WALL CONDITIONS - STUD WALLS - NON-FIRE, NON-SMOKE, NON-SOUND CONTROL WALLS

3" = 1'-0"

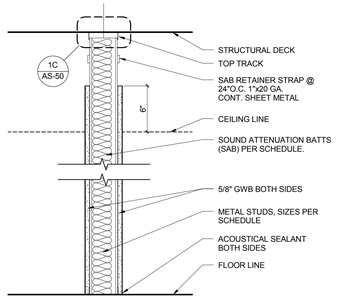


ISOMETRIC VIEW OF SLOTTED TOP TRACK

GENERAL NOTES (COMMON TO ALL DETAILS)
1. CONDITIONS INDICATED SHOW DESIGN INTENT, ESPECIALLY IN REGARD TO ACCOMMODATION OF STRUCTURAL DEFLECTION AND COMPLETING INTEGRITY OF SOUND, SMOKE AND FIRE WALLS.
2. DESIGN-INTENT DETAILS ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR HEAD-OF-WALL DESIGNS AND COMPONENTS AS APPROPRIATE FOR CONDITIONS.
3. DESIGN-INTENT DETAILS MAY NOT SHOW ALL CONDITIONS TO BE ENCOUNTERED ON SUBJECT PROJECT. COMPLY WITH MANUFACTURER AND UL-APPROVED METHODS FOR ATYPICAL CONDITIONS.
4. SECURE TOP OF INTERIOR PARTITIONS TO SUPERSTRUCTURE IN A WAY THAT PROVIDES LATERAL STABILITY (PERPENDICULAR-TO AND IN-PLANE WITH WALL) YET ALLOWING FOR UP TO 3/4 IN OF VERTICAL DEFLECTION OF THE SUPERSTRUCTURE.
5. RIGIDLY SECURE SLOTTED TOP TRACK TO BUILDING SUPERSTRUCTURE IN APPROVED MANNER. EMPLOY Z-BARS, COLD-ROLLED CHANNELS OR SIMILAR SPACERS TO ACCOMMODATE THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE MATERIALS (SFRM).
6. SLOTTED TOP TRACK, INDICATED ON THESE DETAILS, IS BASIS FOR DESIGN AND REFERS TO LONG-LEG TRACK WITH VERTICALLY SLOTTED HOLES. OPTIONAL MANUFACTURERS MAY PROVIDE SIMILAR, PROPRIETARY METHODS IN ACCORDANCE WITH PROVISIONS OF SPECIFICATION SECTION 09110.
7. SECURE VERTICAL STUDS TO TOP TRACK USING VERTICAL SLOTS IN TRACK. COMPONENTS INTENDED TO SLIDE VERTICALLY AS SUPERSTRUCTURE DEFLECTS.
8. DO NOT SCREW GYPSUM WALLBOARD TO TOP TRACK OR SUPERSTRUCTURE.
9. REFER TO SPECIFIC WALL TYPES FOR SIZE OF STUD, SAB, GWB CONDITIONS ETC.

1 HEAD-OF-WALL CONDITIONS - STUD WALLS - GENERAL REQUIREMENTS

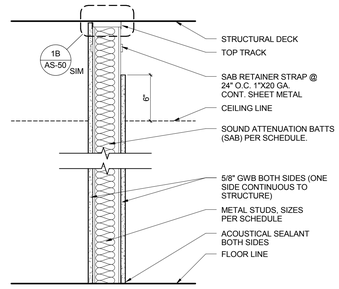
3" = 1'-0"



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
A	3 5/8"	-	-	3 1/2"	-	-

NON-FIRE RATED WALL — A

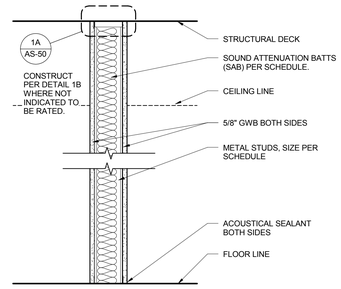
NTS



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
B	3 5/8"	-	-	3 1/2"	-	-

NON-FIRE RATED WALL — B

NTS

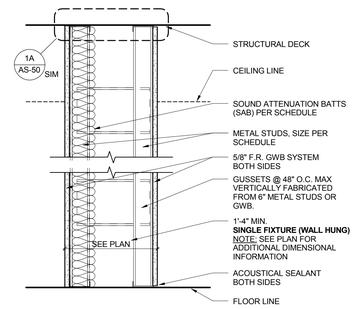


MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
C	3 5/8"	1 HR	U465, U450	3 1/2"	48	TL99-103
C1	3 5/8"	otb parameter not used	U465, U450	-	39	TL99-160
C6	6"	otb parameter not used	U465, U450	3 1/2"	48	TL99-103

1-HOUR WALL — C

NTS

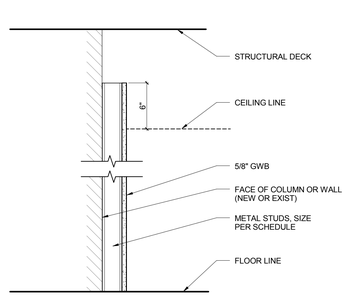
A. GENERAL NOTES:
1. SEE FLOOR PLANS FOR EXTENT OF EACH WALL TYPE. SOME WALL TYPES MAY NOT BE USED ON PROJECT.
2. WALL TYPES ARE TITLED TO GENERALLY DESCRIBE AN ASSEMBLY'S FIRE-RESISTIVE "CAPABILITY". IN SOME CASES, ARCHITECT MAY HAVE EMPLOYED A GIVEN WALL TYPE FOR ITS SOUND CONTROL OR OTHER PROPERTIES. THUS IT IS POSSIBLE THAT WALL TYPES CHOSEN MAY PROVIDE GREATER FR CAPABILITY THAN ACTUALLY REQUIRED BY BUILDING CODE. UTILIZE WALL TYPES INDICATED BY FLOOR PLAN CALL-OUTS.
3. CONTACT ARCHITECT WHERE WALLS LACK A WALL TYPE CALL-OUT.
4. "METAL STUDS" INDICATED ON THIS SHEET FOR INTERIOR PARTITIONS REFER TO THOSE SPECIFIED IN SECTION 09 22 16 / NON-STRUCTURAL METAL FRAMING. REFER TO SPECIFICATIONS FOR ADDITIONAL CRITERIA SUCH AS STUD SPACING, MINIMUM GAUGE OF METAL AND PERMISSIBLE DEFLECTION LIMITS.
5. "STC" REFERS TO SOUND TRANSMISSION CLASS; A RATING SYSTEM THAT DESCRIBES THE ABILITY OF AN ASSEMBLY TO REDUCE THE TRANSMISSION OF SOUND. CONFIGURE SOUND-RATED WALL ASSEMBLIES ACCORDING TO THE MINIMUM REQUIREMENTS STIPULATED IN THE STC TESTS LISTED.
6. "SAB" REFERS TO SOUND ATTENUATION BATTS SPECIFIED IN SECTION 09 29 00. WHERE SAB ARE INDICATED, THEY SHALL EXTEND CONTINUOUSLY FROM FLOOR TO STRUCTURE ABOVE.
7. WALLS ARE INDICATED WITH CONVENTIONAL GYPSUM WALLBOARD; UPGRADE TO PREMIUM TYPES OF WALLBOARD (I.E. MOISTURE-RESISTANT, TILE-BACKER, ETC) BASED ON THEIR LOCATION AND ACCORDING TO REQUIREMENTS OF SECTION 09 29 00.
8. HEAD-OF-WALL FIRESTOPPING AND SEALING OF THRU-WALL PENETRATIONS: REFER TO SECTION 07 84 00 / FIRESTOPPING.
9. ACOUSTICAL SEALANTS: SPECIFIED IN SECTION 09 29 00.



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
H2	2 1/2"	otb parameter not used	U420	-	-	-

1-HOUR CHASE WALL (SINGLE FIXTURES) — H

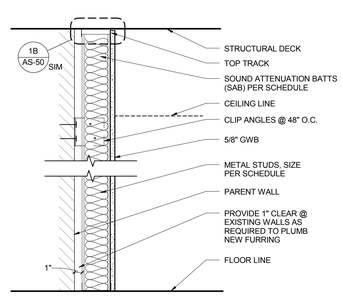
NTS



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
R1	1 5/8"	-	-	-	-	-
R2	2 1/2"	-	-	-	-	-
R3	3 5/8"	-	-	-	-	-

STUD FURRING — R

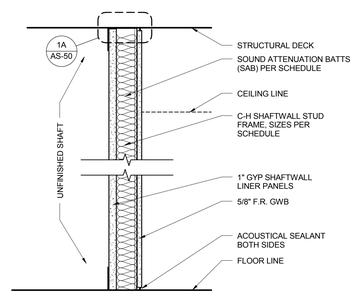
NTS



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
S3	3 5/8"	-	-	3 1/2"	-	-

STUD FURRING TO STRUCTURE — S

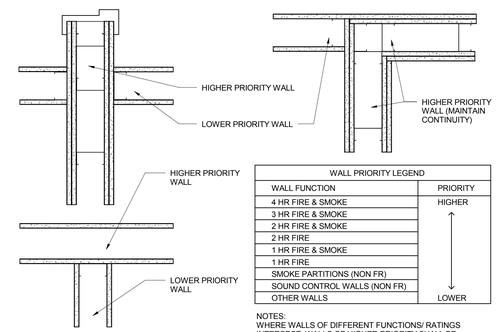
NTS



MARK	STUD SIZE	Fire Rating	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
E4	4"	1 HR	U438	2 1/2"	40	USG-040901

1-HOUR WALL (UNFINISHED SHAFT) — E

NTS



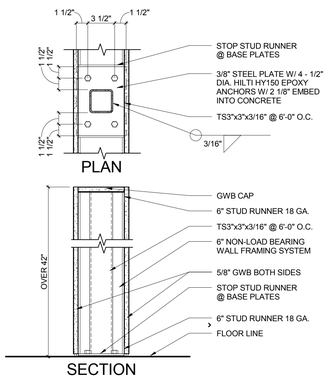
WALL PRIORITY LEGEND	
WALL FUNCTION	PRIORITY
4 HR FIRE & SMOKE	HIGHER
3 HR FIRE & SMOKE	
2 HR FIRE & SMOKE	
2 HR FIRE	
1 HR FIRE & SMOKE	
1 HR FIRE	
SMOKE PARTITIONS (NON FR)	
SOUND CONTROL WALLS (NON FR)	
OTHER WALLS	LOWER

NOTES:
WHERE WALLS OF DIFFERENT FUNCTIONS/ RATINGS INTERSECT: WALLS OF HIGHER PRIORITY SHALL BE CONTINUOUS.

LOWER PRIORITY WALLS SHALL "ABUT" AND BE "SEALED TO" HIGHER PRIORITY WALLS, BUT SHALL NOT INTERRUPT CONTINUITY OF THE HIGHER PRIORITY WALL.

F3 WALL PRIORITY LEGEND

1 1/2" = 1'-0"



RATING INFORMATION
FIRE RATING - NON-RATED

F8 KNEE WALL - OVER 42" HEIGHT

1 1/2" = 1'-0"

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4/17/2012 8:59:42 AM

REVISIONS	DATE

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: MARK A. JASMIN
SIGNATURE:
DATE: 12/9/2011 LICENSE # 18698

ARCHITECTS/ENGINEERS

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444 CEDAR ST SUITE 1900 ST. PAUL, MN 55101

Drawing Title: INTERIOR WALL TYPES

Approved : Project Director

Project Title: **EXPAND PRIMARY AND SPECIALTY CARE / RECONFIGURE SUPPORT SPACE**

Location: **4801 Veterans Drive, St. Cloud, MN 56303**

Date: **12/09/2011** | Checked by: **ETD** | Drawn: **ETD**

Project Number: **656-321 / 133959**

Building Number: **4**

Drawing number: **AS-50**

Office of Construction and Facilities Management

Department of Veterans Affairs

SPRINKLERED VOLUME 2