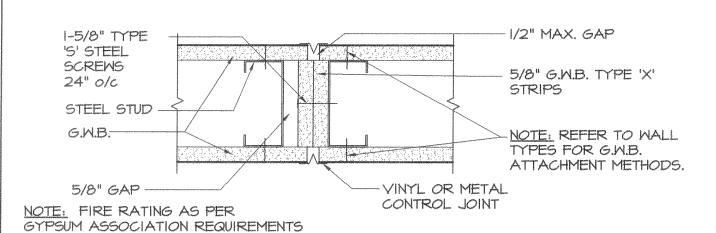
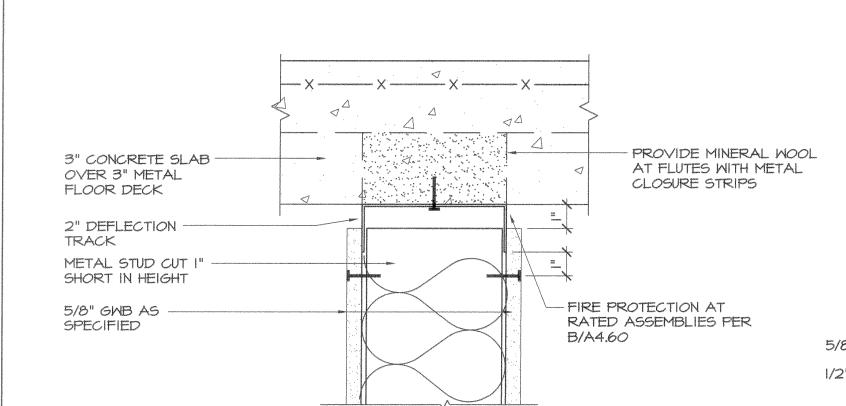


LOCATE ALONG CORRIDOR @

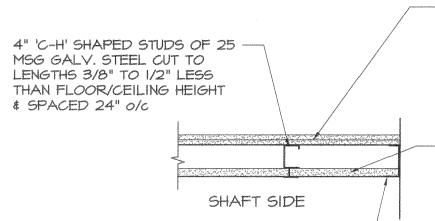
FIRESTOP **JOINT SPRAY DETAIL** SCALE: 1-1/2" = 1'-0"



DEMISING WALLS, TYPICAL GYPSUM WALL JOINT DETAIL FIRE RATING: 1-HOUR NON-COMBUSTIBLE



DEFLECTION TRACK DETAIL SCALE: 3'' = 1'-0''



4" WIDE 'J' SHAPED FLOOR, SIDE & CEILING RUNNERS W/UNEQUAL LEGS OF I" & 2", FABRICATED FROM MIN. 24 MSG GALV. STEEL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. ATTACHED TO STRUCTURAL SUPPORTS W/STEEL FASTENERS LOCATED NOT GREATER THAN 2"

FROM ENDS & NOT MORE THAN 24 o/c.

GYPSUM LINER PANELS TYPE 'X', NOM. I" THICK, 24" WIDE. PANELS CUT I" LESS IN LENGTH THAN FLOOR/CEILING HEIGHT. VERTICAL EDGES INSERTED IN 'H' PORTION OF 'C-H' STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL 'J' RUNNERS WITH 1-5/8" LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12" o/c WHEN WALL HEIGHT EXCEEDS LINER PANEL LENGTH, LINER PANEL MAY BE BUTTED TO EXTEND TO FULL HEIGHT OF WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING

(I) LAYER 5/8" G.W.B.-TYPE 'X' APPLIED VERT.

TYPE S STEEL SCREWS SPACED 24" o/c WHEN

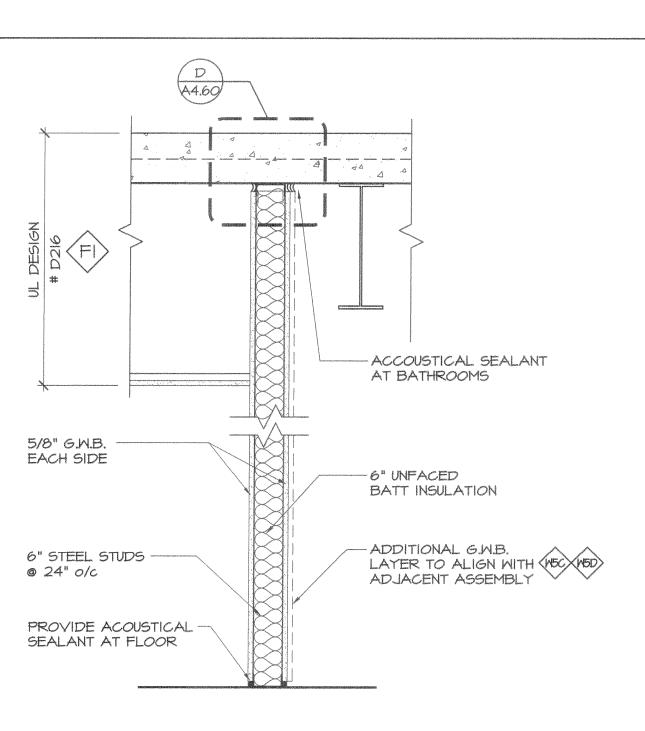
OR HORIZ. ATTACHED TO STUDS W/I" LONG

INSTALLED VERTICALLY OR 16" o/c WHEN

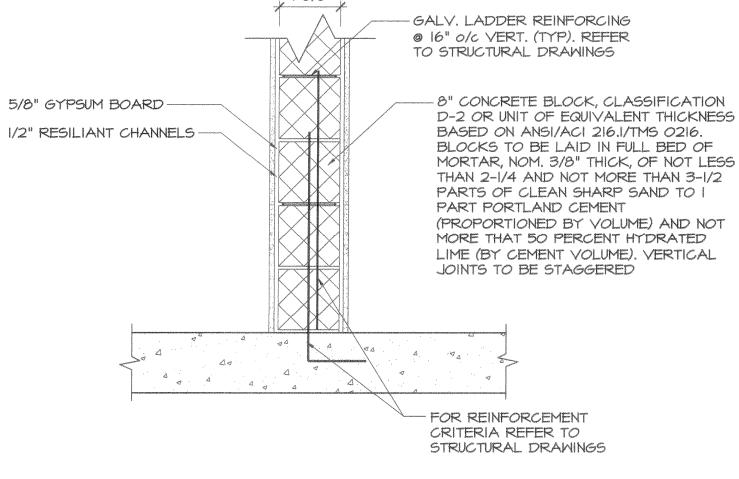
INSTALLED HORIZONTALLY.

HORIZONTAL SECTION I HOUR SHAFT WALL - SYSTEM A

I HOUR SHAFI N	MLL - SISIEM A
FIRE RATING: I HR	DESIGN: UL #U-415 (A)
S.T.C. RATING:	NON-LOAD BEARING



TYP. NON-RATED INT. PARTITION			
FIRE RATING: N/A	DESIGN: N/A		
S.T.C. RATING: N/A	NON-LOAD BEARING		
W5A 3 5/8" METAL STUDS AT 24" 0/c			
W5B 3 5/8" STUD, W/O BATT INSULATION, ONE LAYER G.W.B. ONE SIDE ONLY			
W5C 3 5/8" STUD, W/O BATT INSULATION, TWO LAYERS G.M.B. ONE SIDE ONLY			
W5D 2 5/8" STUD, W/O BATT INSULATION, ONE LAYER G.M.B. ONE SIDE ONLY			
W5E 6" METAL STUDS, ONE LAYER G.M.B. ONE SIDE ONLY			



2 HOUR C.M.U.	MALL	
FIRE RATING: 2HR	DESIGN: UL# U906	
S.T.C. RATING: N/A	8" NON-LOAD BEARING	
FIRE RATING: 2HR	DESIGN: UL# U906	
CHANNELS AND GMB	ON ONE SIDE ONLY	_/
FIRE RATING: 2HR	DESIGN: UL# U906	
WO CHANNELS AND DRYWALL		

PROVIDE 2" EXPANSION JOINT AT EACH SIDE OF FIRE WALL WITH CP672 SEALANT AS MANUFACTURED BY HILTI CONSTRUCTION, INC. (UL # HW-9-0053) - GALY. LADDER REINFORCING @ 16" o/c VERT. (TYP). REFER TO STRUCTURAL DRAWINGS -8" CONCRETE BLOCK, CLASSIFICATION D-3 OR UNIT OF EQUIVALENT THICKNESS BASED ON ANSI/ACI 216.1/TMS 0216. BLOCKS TO BE LAID IN FULL BED OF MORTAR, NOM. 3/8" THICK, OF NOT LESS THAN 2-1/4 AND NOT MORE THAN 3-1/2 PARTS OF CLEAN SHARP SAND TO I PART PORTLAND CEMENT (PROPORTIONED BY VOLUME) AND NOT MORE THAT 50 PERCENT HYDRATED LIME (BY CEMENT VOLUME), VERTICAL JOINTS TO BE STAGGERED FOR REINFORCEMENT CRITERIA REFER TO STRUCTURAL DRAWINGS 3 HOUR C.M.U. FIRE WALL

FOUNDATION WALL, REFER TO STRUCTURAL

WATERPROOFING AND

INSULATION SYSTEM

7/8" METAL FURRING

CHANNEL AT 24" o/c MAX.

DRAWINGS

NON-RATED PARTITION

(N4A) 15/8" L.G.M.F. @ 24" O.C.

FIRE RATING: N/A DESIGN: N/A

S.T.C. RATING: N/A | LOAD BEARING

4" 'C-H' SHAPED STUDS OF 25 MSG GALY. STEEL CUT TO LENGTHS 3/8" TO 1/2" LESS THAN FLOOR/CEILING HEIGHT # SPACED 24" o/c

FIRE RATING: 3HR | DESIGN: UL# U904

S.T.C. RATING: N/A 8" NON-LOAD BEARING

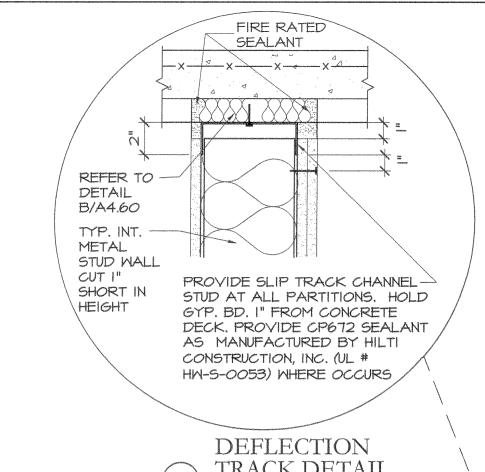
SHAFT SIDE 4" WIDE 'J' SHAPED FLOOR, SIDE & CEILING RUNNERS W/UNEQUAL LEGS OF I" \$ 2", FABRICATED FROM MIN. 24 MSG GALV. STEEL. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. ATTACHED TO STRUCTURAL SUPPORTS W/STEEL FASTENERS LOCATED NOT GREATER THAN 2" FROM ENDS & NOT MORE THAN 24 o/c.

HORIZONTAL SECTION

2 HOUR SHAFT WALL - SYSTEM B FIRE RATING: 2 HR DESIGN: UL #U-415 (B) S.T.C. RATING: NON-LOAD BEARING FIRE RATING: 2 HR DESIGN: UL #U-415 (B) 2 1/2" C-H METAL STUDS

(2) LAYERS 5/8" G.W.B.-TYPE 'X' APPLIED VERT. OR HORIZ. BASE LAYER ATTACHED TO STUDS W/I" LONG TYPE S STEEL SCREWS SPACED 24" o/c WHEN INSTALLED VERTICALLY OR 16" o/c WHEN INSTALLED HORIZONTALLY. OUTER LAYER ATTACHED TO STUDS w/1-5/8" LONG TYPE S STEEL SCREWS SPACED 12" o/c WHEN INSTALLED VERTICALLY & STAGGERED 8" FROM BASE SCREWS, OR 8" o/c WHEN INSTALLED HORIZONTALLY & STAGGERED 8" FROM BASE SCREWS. HORIZONTAL JOINTS BETWEEN INNER & OUTER LAYERS STAGGERED A MIN. OF 12". VERTICAL JOINTS CENTERED OVER STUDS # STAGGERED 24"

GYPSUM LINER PANELS TYPE 'X', NOM. I" THICK, 24" WIDE, PANELS OUT I" LESS IN LENGTH THAN FLOOR/CEILING HEIGHT. VERTICAL EDGES INSERTED IN 'H' PORTION OF 'C-H' STUDS, FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL 'J' RUNNERS WITH 1-5/8" LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12" o/c WHEN WALL HEIGHT EXCEEDS LINER PANEL LENGTH, LINER PANEL MAY BE BUTTED TO EXTEND TO FULL HEIGHT OF WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING



TRACK DETAIL

CHANNEL SHAPED RUNNER TRACK MIN. ---25 GA. CORROSION PROTECTED STEEL W/MIN. 2" LONG LEGS, ATTACHED TO CEILING WITH FASTENERS 24" o/c MAX. 4 4 A 4 4 A DEFLECTION TRACK FASTENERS - TYPE 'S' OR 'S-12' STEEL SCREWS. FIRST LAYER - I" LONG FOR 1/2" AND 5/8" THICK A.C.T OR G.W.B. CEILING. PANELS, SPACED 16" o/c SECOND REFER TO REFLECTED CEILING LAYER 1-5/8" LONG SCREWS FOR

PLAN FOR CEILING TYPE GLASS FIBER OR MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS, BEARING THE UL CLASSIFICATION MARKING

(2) LAYERS OF 5/8" TYPE 'X' GYPSUM-PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN ADJACENT LAYERS STAGGERED ONE STUD CAVITY. HORIZONTAL EDGE JOINTS

LAYERS STAGGERED A MINIMUM OF 12"

AND BUTT JOINTS IN ADJACENT

" CHANNEL SHAPED STEEL STUDS FABRICATED FROM 25 MSG. CORROSION-PROTECTED STEEL MIN. I-I/4" FLANGES AND I/4" RETURN, SPACED 24" o/c MAXIMUM. STUDS TO BE CUT 3/8" TO 3/4" LESS THAN ASSEMBLY HEIGHT -CHANNEL SHAPED RUNNER TRACK MIN. 25 GA. CORROSION PROTECTED STEEL W/MIN. I" LONG LEGS, SET ON BEAD OF ACOUSTICAL SEALANT,

1/2" AND 5/8" THICK PANELS,

SPACED 16" o/c WITH SCREWS

OFFSET 8" FROM FIRST LAYER

ATTACHED TO FLOOR WITH FASTENERS 24" o/c MAX. -FLOOR SLAB

TYPICAL F	IRE F	RATED	PARTITION	
FIRE RATING: 2	HR.	DESIGN:	#U4I9	
S.T.C. RATING:	WA	NON-LOA	D BEARING	/
WIA FIRE RATING: I	HR.	DESIGN:	#U4I9	
	LAYE	R OF G.M	B. BOTH SIDES	/
FIRE RATING: 2	HR.	DESIGN:	#U419	
WIB 3 5/8" METAL STUDS				
WIC FIRE RATING: I	HR.	DESIGN:	#U419	
	ONE L	LAYER OF	= 6.M.B. BOTH S	IDES /
FIRE RATING: 2	HR.	DESIGN:	#U419	
WID WO BATT INSI	LATIC	PΝ		
FIRE PATING, I	шь Т	DESIGN.	#11414	

GENERAL NOTES:

. ALL PENETRATIONS THROUGH THE FIRE RATED ASSEMBLIES BOTH HORIZONTALLY AND VERTICALLY SHALL BE SEALED WITH FIREPROOFING MATERIALS TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY RATING.

2. WHERE A TESTING LAB DESIGN NUMBER IS DESIGNATED (I.e., UL, GYPSUM ASSOC., ETC.), PARTITIONS MUST BE CONSTRUCTED IN STRICT ACCORDANCE W/THE TESTED DESIGN ASSEMBLY. REFER TO THE TESTING LABORATORY'S DIRECTORY (I.E., UL FIRE RESISTANCE DIRECTORY - 2006 OR GYPSUM ASSOC. FIRE RESISTANCE DESIGN MANUAL - 17TH EDITION) FOR DETAILS ON MATERIALS AND FASTENER REQUIREMENTS.

3. REFER TO TESTING AGENCY REFERENCED FOR FASTENING CRITERIA AND BACKBLOCKING OF G.W.B. JOINTS. ALL JOINTS AND SCREW HEADS FINISHED.

4. COORDINATE LOCATIONS OF WIRING AND PLUMBING WITHIN THE FRAMING.

5. ELECTRICAL BOXES LOCATED ON OPPOSITE SIDES OF WALL OR RATED PARTITIONS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. THE MINIMUM SEPARATION DISTANCE BETWEEN BOXES MAY BE REDUCED WHEN "WALL OPENING PROTECTIVE MATERIALS" (CLIV) ARE INSTALLED ACCORDING TO THE REQUIREMENTS OF THEIR CLASSIFICATION. THE SURFACE AREA OF THE INDIVIDUAL BOXES SHALL NOT EXCEED 16 SQ. IN. THE AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQ. IN. PER 100 SQ. FT. OF WALL SURFACE.

6. REFER TO SPECIFICATIONS FOR THROUGH PENETRATION FIRE STOP SYSTEMS.

FIRE RATING: I HR. | DESIGN: #U419 W/O BATT INSULATION, G.M.B. BOTH SIDES

CUSICAND, MA

AR

PROJECT ARCHITECT: MW

DRAWN BY: SO PROTECT #: 300506