



FL LIC. # AA0002264

ARCHITECTURAL GROUP, INC.
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ORLANDO, FLORIDA 32804
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PROJECT TITLE AND OWNERS NAME

"RED BRICK" BUILDING ANNEX TAMPA NATIONAL GUARD ARMORY

DEPARTMENT OF
MILITARY AFFAIRS
ST AUGUSTINE, FLORIDA

PERMIT AND CONSTRUCT

CONSULTANTS

SEAL AND SIGNATURE

PETER M. IKEGAMI
AR0013065

REVISIONS	DATE
2 RESPONSE TO FIRE MARSHAL	08-07-15

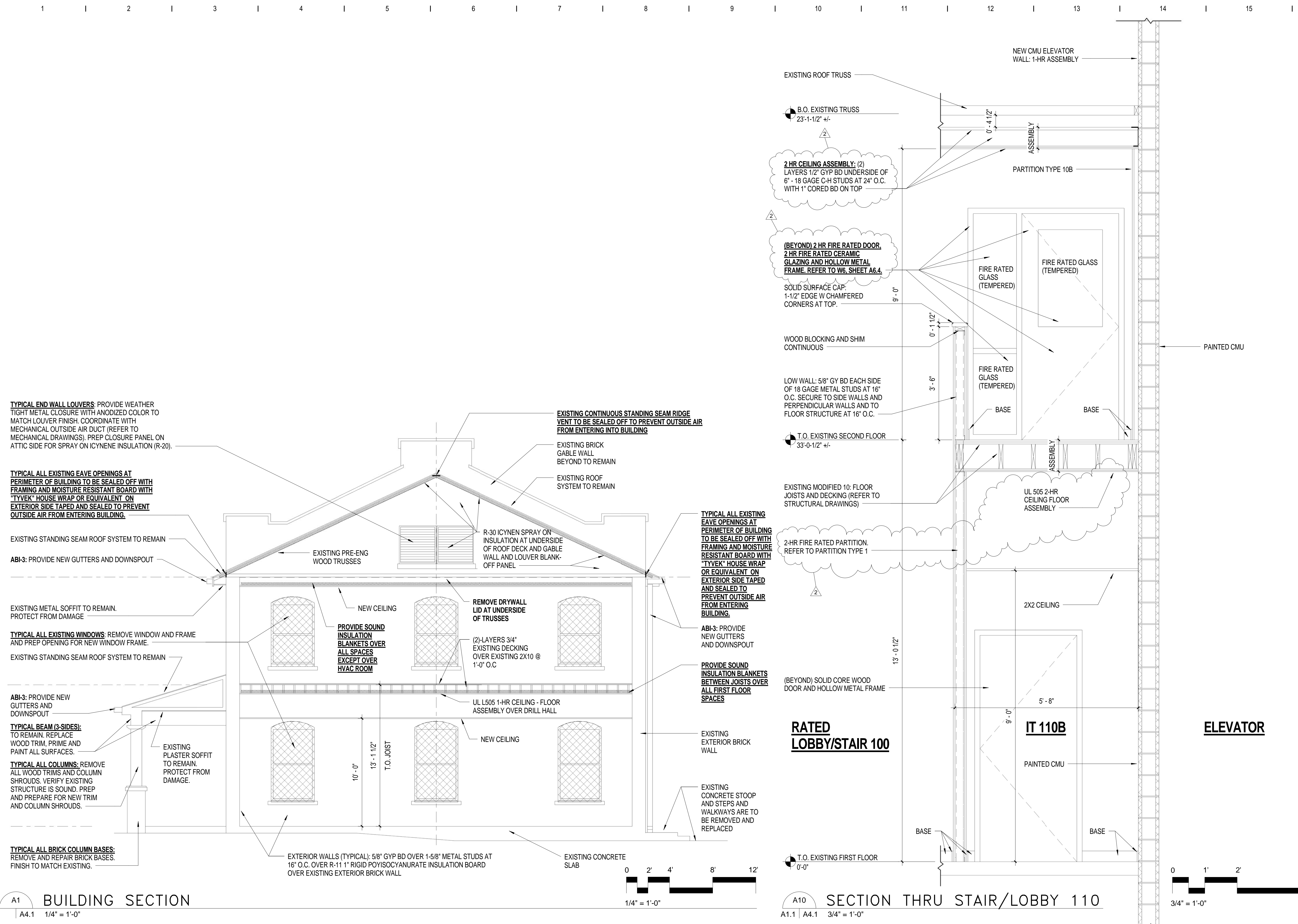
DRAWN BY
PMI
CHECKED BY
JLR
JOB NUMBER
FDMA PROJECT NO.
215004
DATE

06/22/15

BUILDING SECTION AND WALL SECTIONS

DRAWING NUMBER

A4.1



TYPICAL END WALL LOUVERS: PROVIDE WEATHER TIGHT METAL CLOSURE WITH ANODIZED COLOR TO MATCH LOUVER FINISH. COORDINATE WITH MECHANICAL OUTSIDE AIR DUCT (REFER TO MECHANICAL DRAWINGS). PREP CLOSURE PANEL ON ATTIC SIDE FOR SPRAY ON ICYNENE INSULATION (R-20).

TYPICAL ALL EXISTING EAVE OPENINGS AT PERIMETER OF BUILDING TO BE SEALED OFF WITH FRAMING AND MOISTURE RESISTANT BOARD WITH "TYVEK" HOUSE WRAP OR EQUIVALENT ON EXTERIOR SIDE TAPED AND SEALED TO PREVENT OUTSIDE AIR FROM ENTERING BUILDING.

EXISTING STANDING SEAM ROOF SYSTEM TO REMAIN

ABI-3: PROVIDE NEW GUTTERS AND DOWNSPOUT

EXISTING METAL SOFFIT TO REMAIN. PROTECT FROM DAMAGE

TYPICAL ALL EXISTING WINDOWS: REMOVE WINDOW AND FRAME AND PREP OPENING FOR NEW WINDOW FRAME.

EXISTING STANDING SEAM ROOF SYSTEM TO REMAIN

ABI-3: PROVIDE NEW GUTTERS AND DOWNSPOUT

TYPICAL BEAM (3-SIDES): TO REMAIN. REPLACE WOOD TRIM, PRIME AND PAINT ALL SURFACES.

TYPICAL ALL COLUMNS: REMOVE ALL WOOD TRIMS AND COLUMN SHROUDS. VERIFY EXISTING STRUCTURE IS SOUND. PREP AND PREPARE FOR NEW TRIM AND COLUMN SHROUDS.

EXISTING PLASTER SOFFIT TO REMAIN. PROTECT FROM DAMAGE.

TYPICAL ALL BRICK COLUMN BASES: REMOVE AND REPAIR BRICK BASES. FINISH TO MATCH EXISTING.

EXISTING CONTINUOUS STANDING SEAM RIDGE VENT TO BE SEALED OFF TO PREVENT OUTSIDE AIR FROM ENTERING INTO BUILDING

EXISTING BRICK GABLE WALL BEYOND TO REMAIN

EXISTING ROOF SYSTEM TO REMAIN

R-30 ICYNEN SPRAY ON INSULATION AT UNDERSIDE OF ROOF DECK AND GABLE WALL AND LOUVER BLANK-OFF PANEL

EXISTING PRE-ENG WOOD TRUSSES

NEW CEILING

REMOVE DRYWALL LID AT UNDERSIDE OF TRUSSES

PROVIDE SOUND INSULATION BLANKETS OVER ALL SPACES EXCEPT OVER HVAC ROOM

(2)-LAYERS 3/4" EXISTING DECKING OVER EXISTING 2X10 @ 1'-0" O.C.

UL 505 1-HR CEILING - FLOOR ASSEMBLY OVER DRILL HALL

NEW CEILING

EXISTING EXTERIOR BRICK WALL

EXISTING CONCRETE STOOP AND STEPS AND WALKWAYS ARE TO BE REMOVED AND REPLACED

EXISTING CONCRETE SLAB

EXTERIOR WALLS (TYPICAL): 5/8" GYP BD OVER 1-5/8" METAL STUDS AT 16" O.C. OVER R-11 1" RIGID POLYISOCYANURATE INSULATION BOARD OVER EXISTING EXTERIOR BRICK WALL

EXISTING ROOF TRUSS

B.O. EXISTING TRUSS 23'-1-1/2" +/-

NEW CMU ELEVATOR WALL: 1-HR ASSEMBLY

0'-4 1/2"

ASSEMBLY

2 HR CEILING ASSEMBLY: (2) LAYERS 1/2" GYP BD UNDERSIDE OF 6" - 18 GAGE C-H STUDS AT 24" O.C. WITH 1" CORED BD ON TOP

PARTITION TYPE 10B

(BEYOND) 2 HR FIRE RATED DOOR, 2 HR FIRE RATED CERAMIC GLAZING AND HOLLOW METAL FRAME. REFER TO W6, SHEET A6.4.

SOLID SURFACE CAP: 1-1/2" EDGE W CHAMFERED CORNERS AT TOP.

WOOD BLOCKING AND SHIM CONTINUOUS

LOW WALL: 5/8" GY BD EACH SIDE OF 18 GAGE METAL STUDS AT 16" O.C. SECURE TO SIDE WALLS AND PERPENDICULAR WALLS AND TO FLOOR STRUCTURE AT 16" O.C.

9'-0"

0'-1 1/2"

3'-6"

9'-0"

PAINTED CMU

FIRE RATED GLASS (TEMPERED)

FIRE RATED GLASS (TEMPERED)

FIRE RATED GLASS (TEMPERED)

BASE

BASE

T.O. EXISTING SECOND FLOOR 33'-0-1/2" +/-

EXISTING MODIFIED 10' FLOOR JOISTS AND DECKING (REFER TO STRUCTURAL DRAWINGS)

UL 505 2-HR CEILING FLOOR ASSEMBLY

2-HR FIRE RATED PARTITION. REFER TO PARTITION TYPE 1

2X2 CEILING

13'-0-1/2"

(BEYOND) SOLID CORE WOOD DOOR AND HOLLOW METAL FRAME

5'-8"

9'-0"

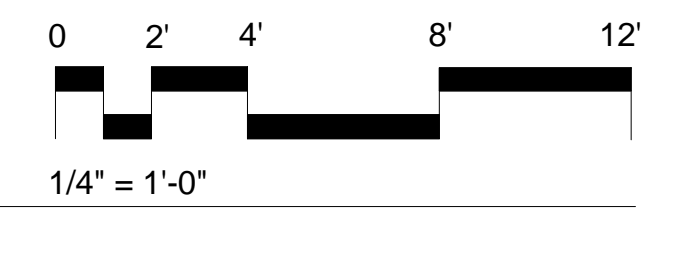
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BASE

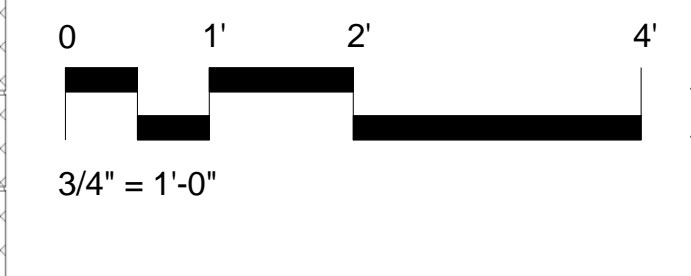
BASE

T.O. EXISTING FIRST FLOOR 0'-0"

A1 BUILDING SECTION
A4.1 1/4" = 1'-0"

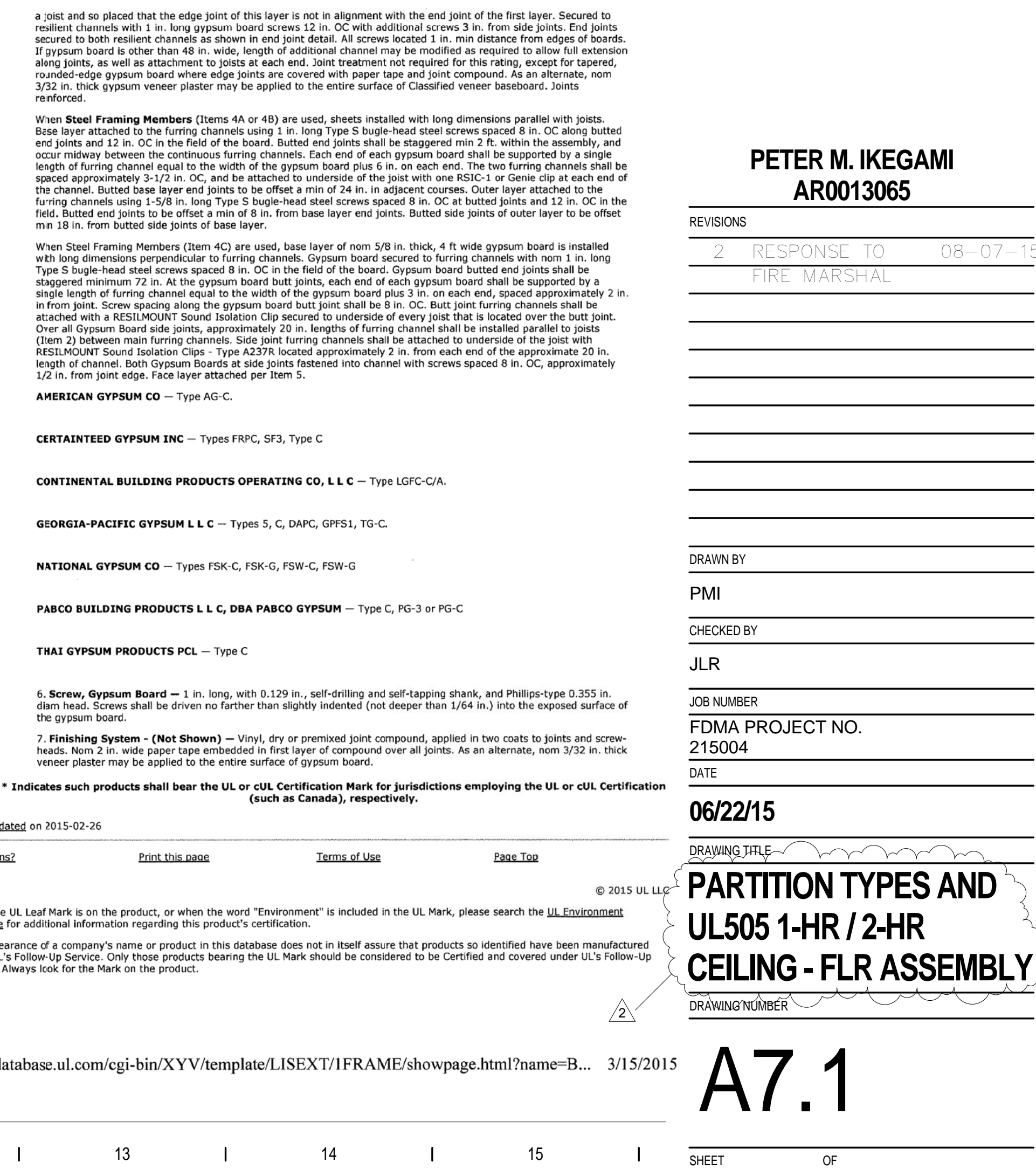
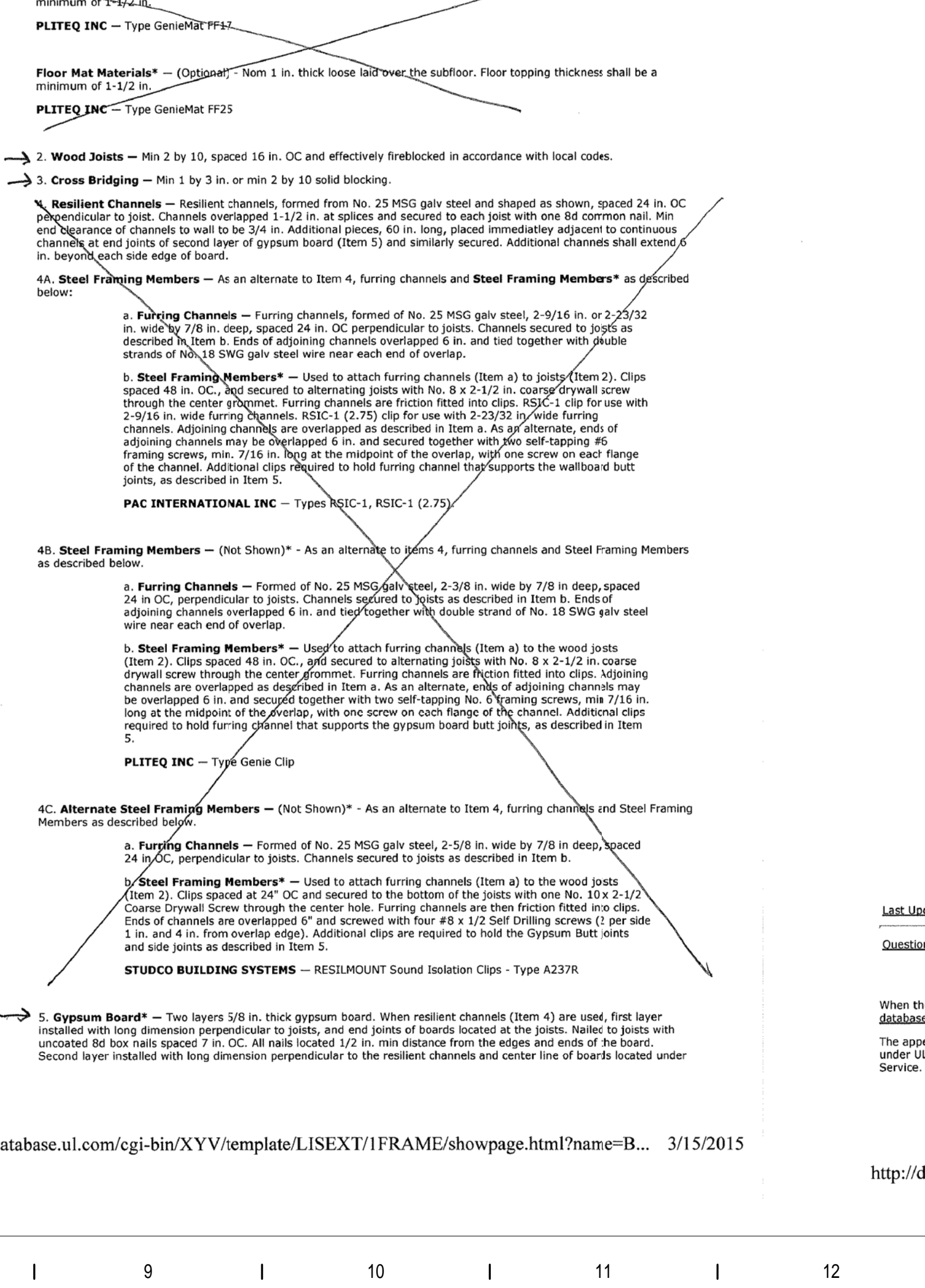
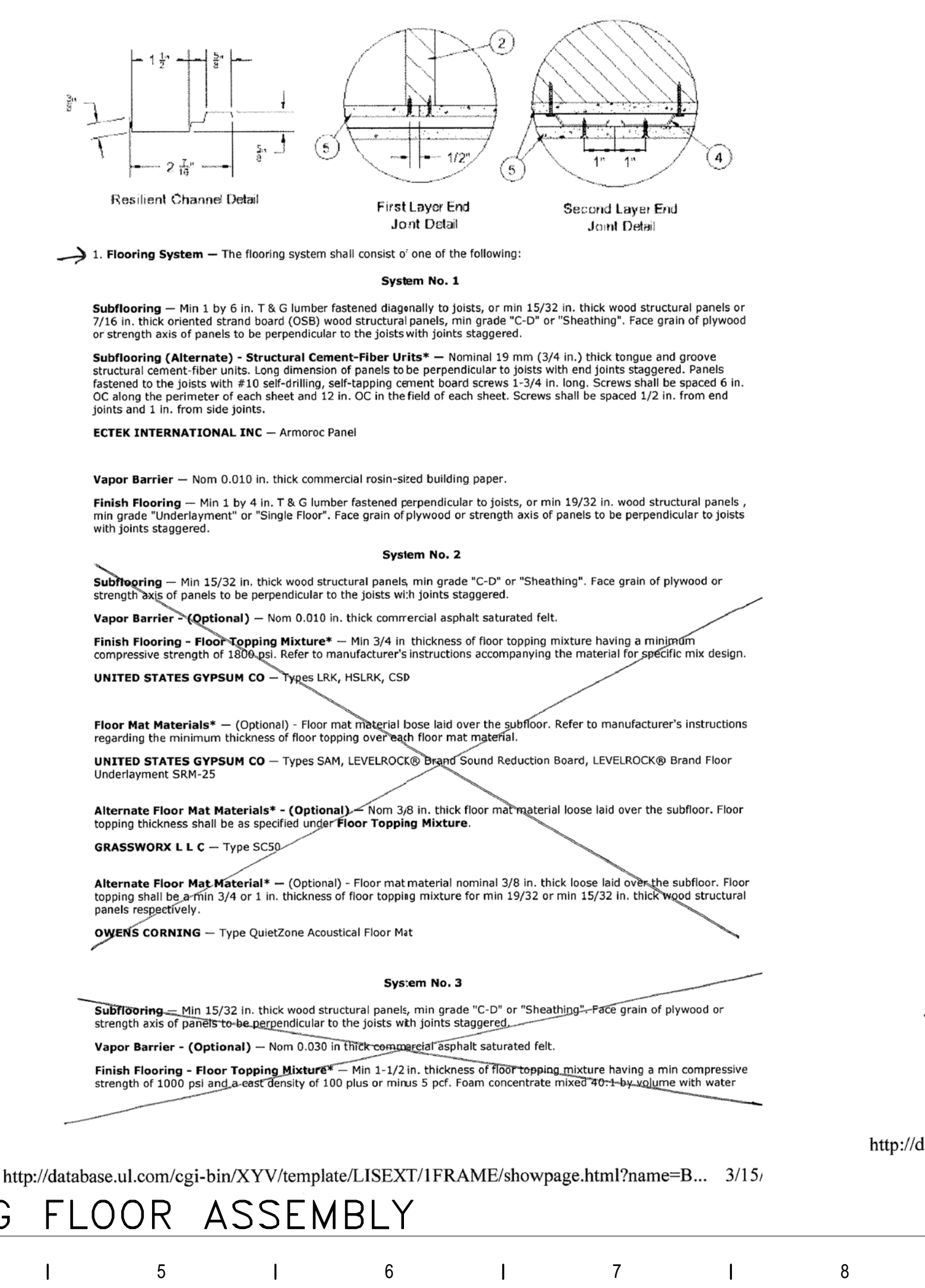
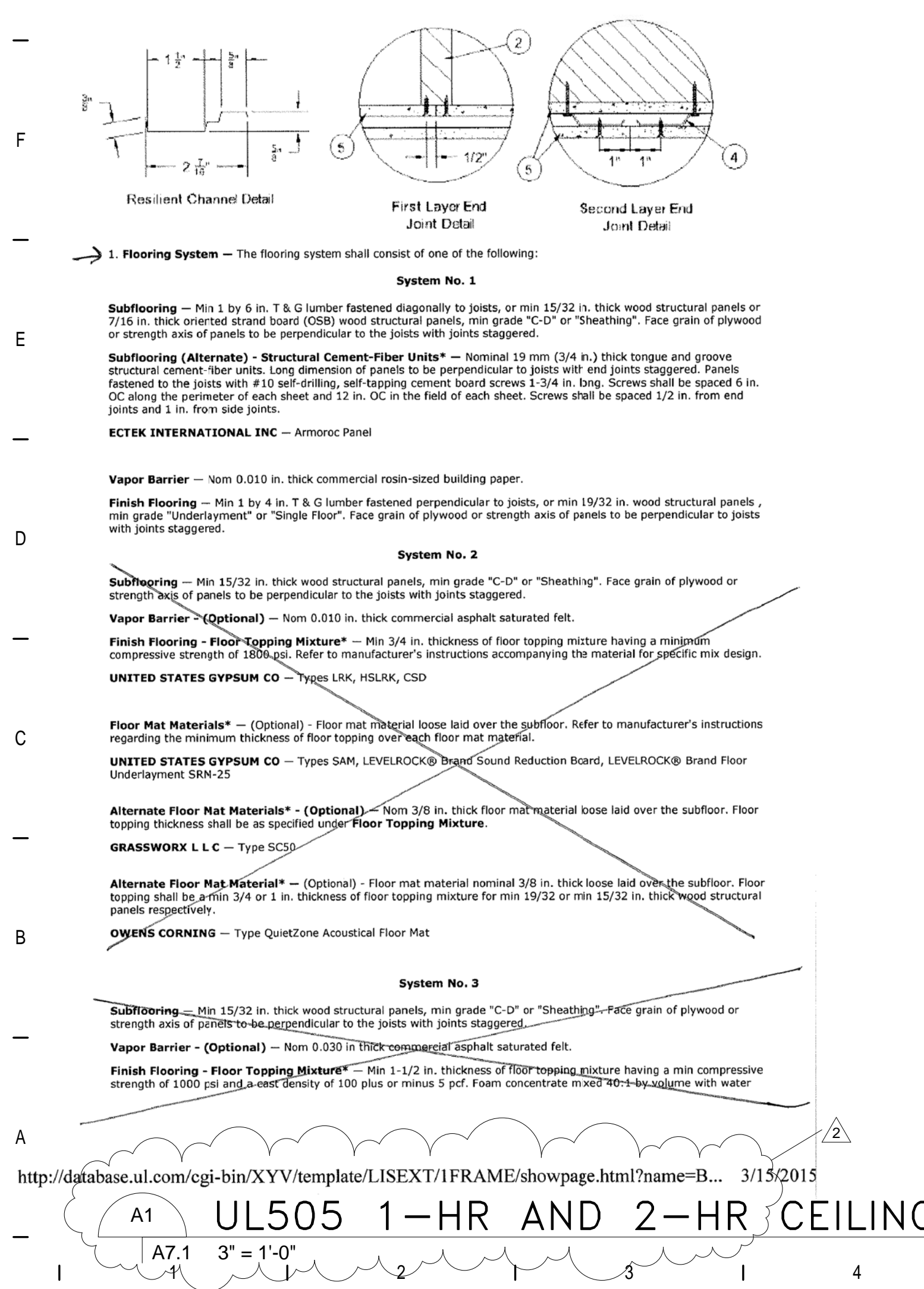
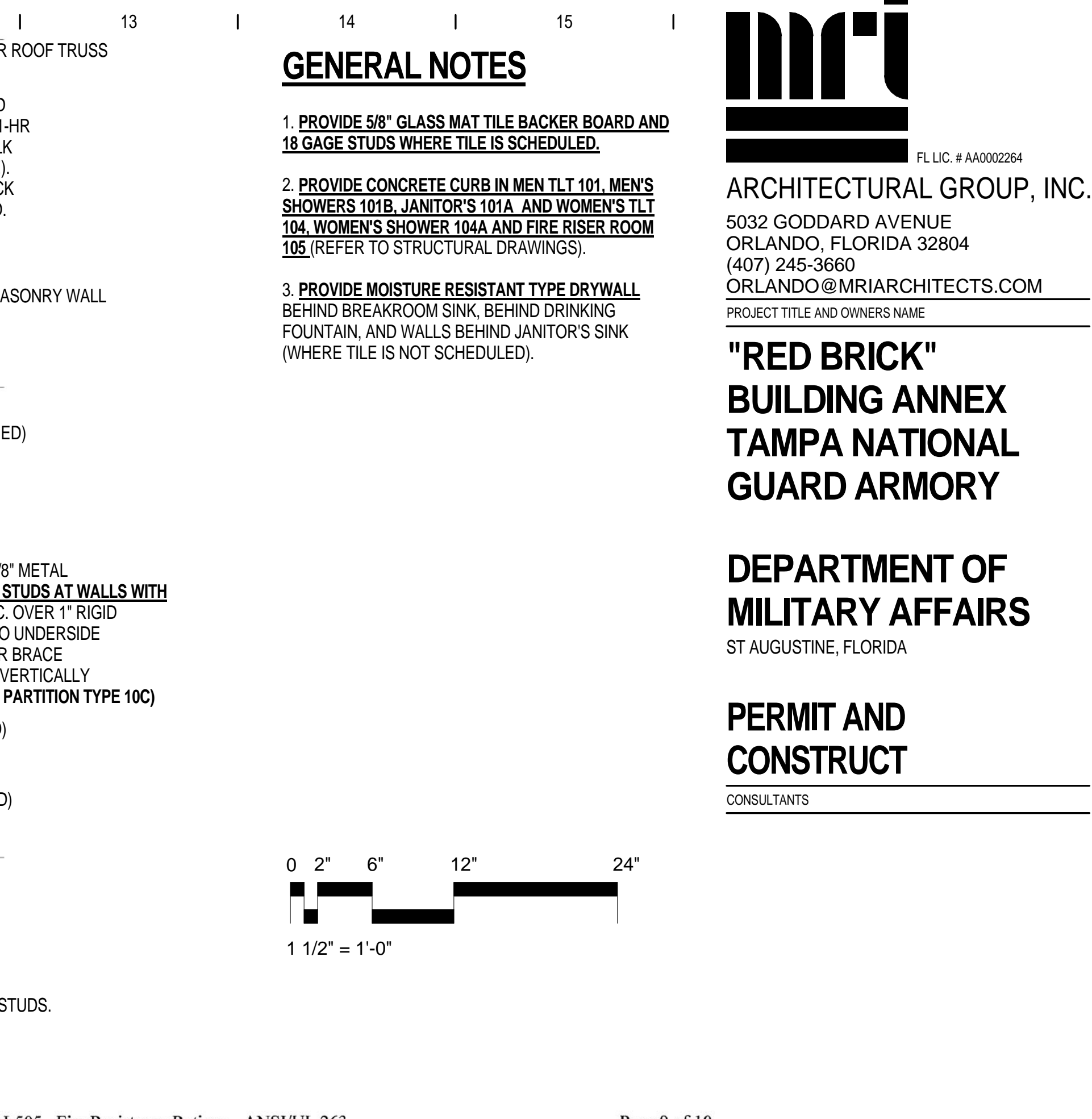
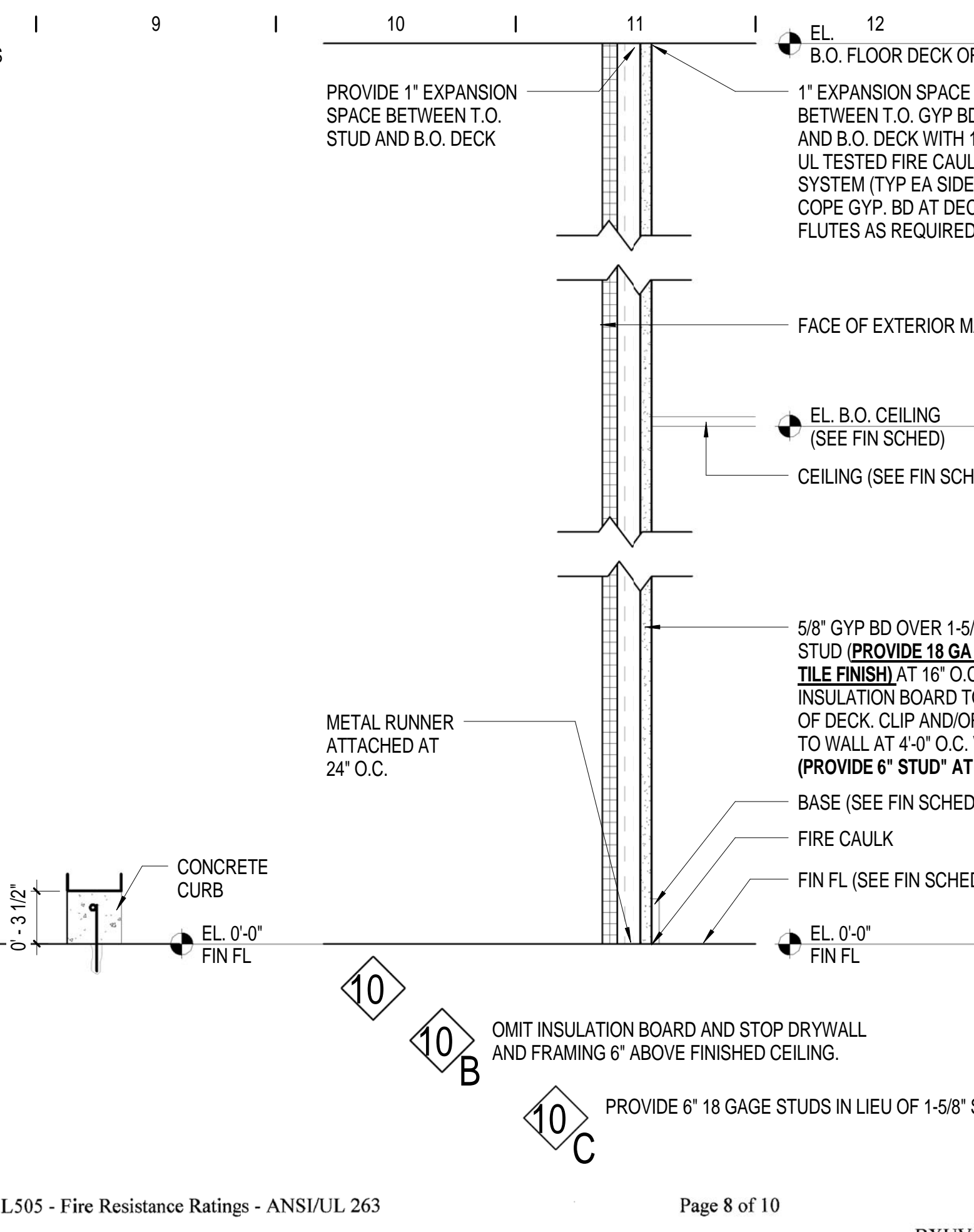
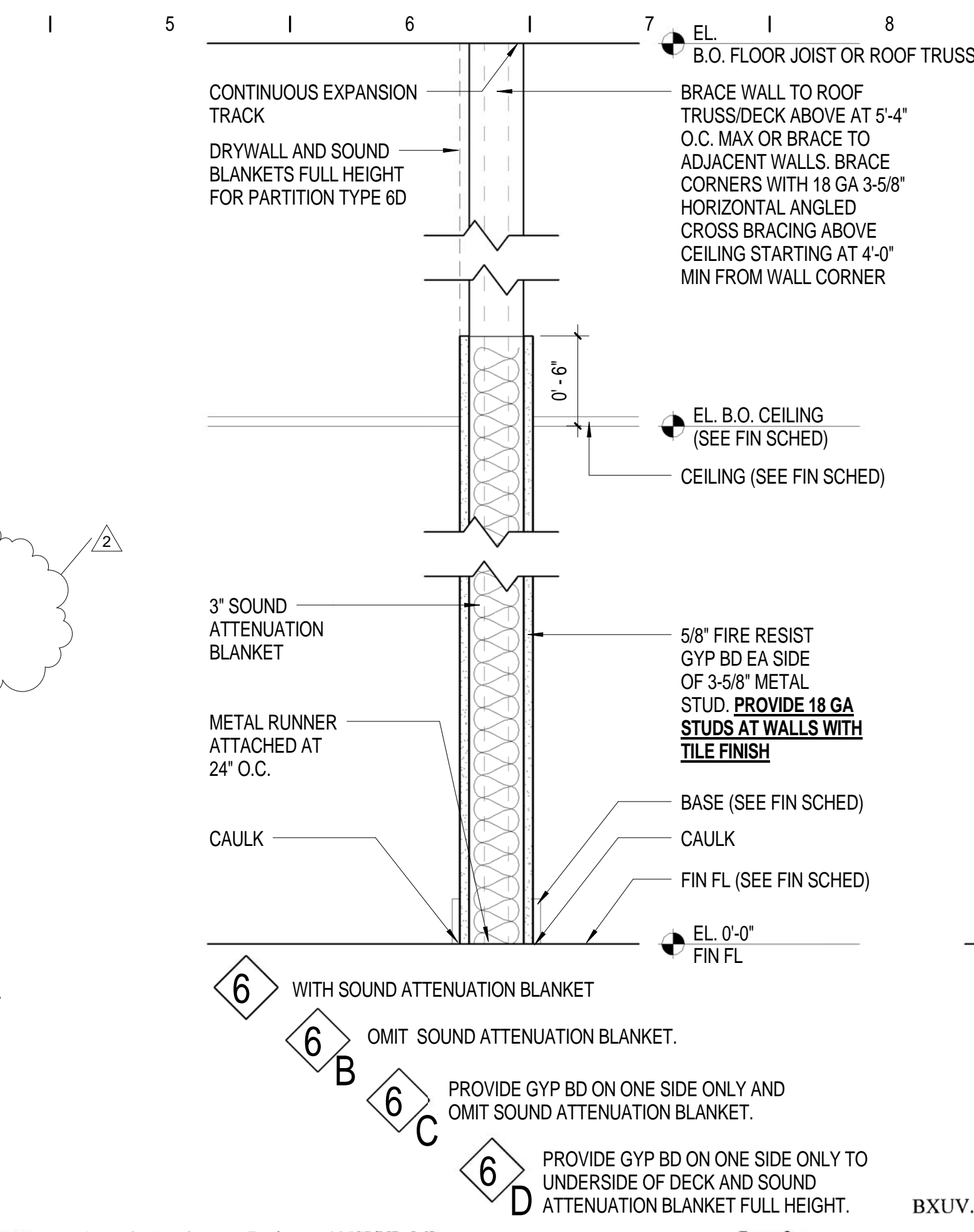
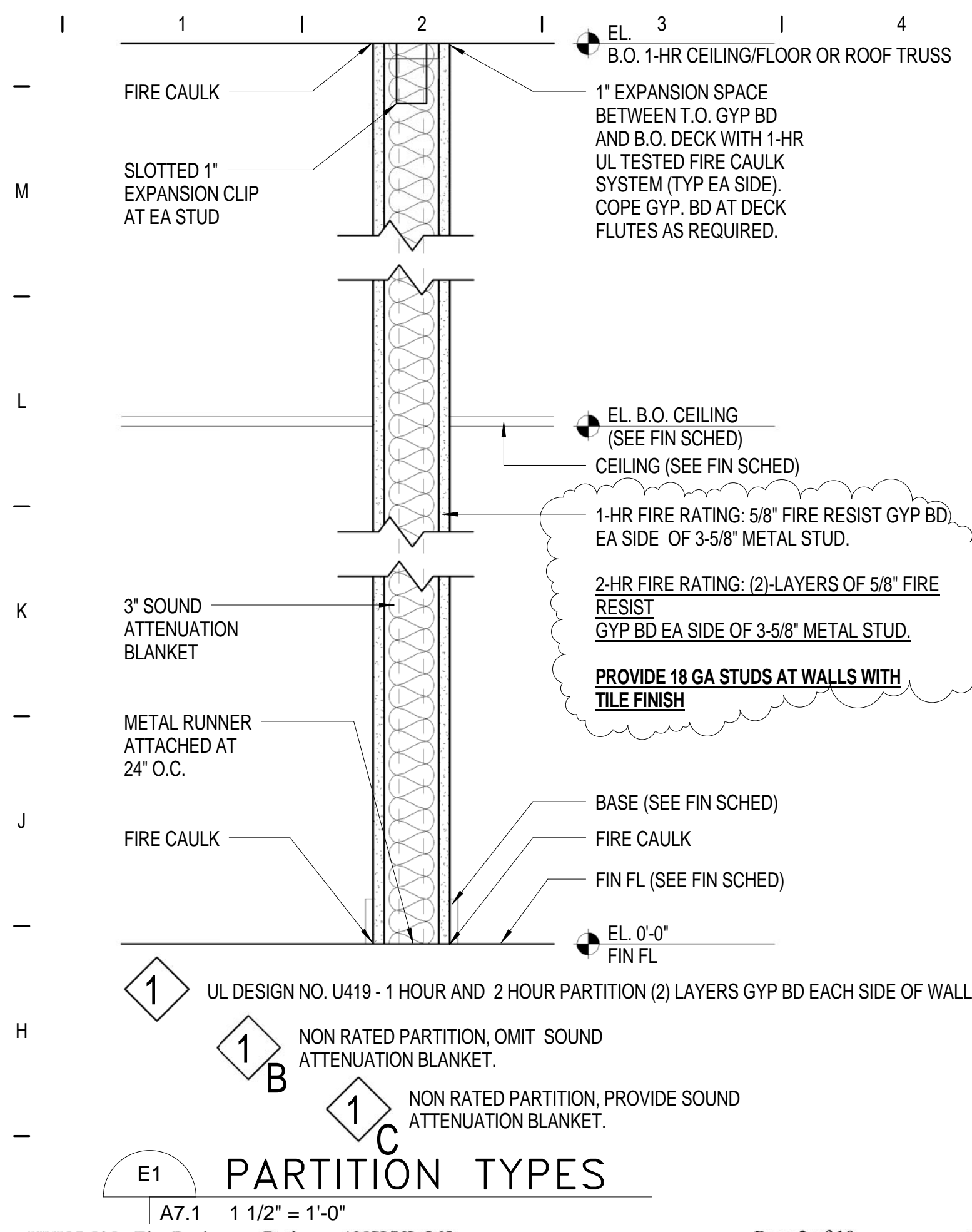


A10 SECTION THRU STAIR/LOBBY 110
A1.1 | A4.1 3/4" = 1'-0"



GENERAL NOTES

1. PROVIDE 5/8" GLASS MAT TILE BACKER BOARD AND 18 GAGE STUDS WHERE TILE IS SCHEDULED.
2. PROVIDE CONCRETE CURB IN MEN TLT 101, MEN'S SHOWERS 101B, JANITOR'S 101A AND WOMEN'S TLT 104, WOMEN'S SHOWER 104A AND FIRE RISER ROOM 105 (REFER TO STRUCTURAL DRAWINGS).
3. PROVIDE MOISTURE RESISTANT TYPE DRYWALL BEHIND BREAKROOM SINK, BEHIND DRINKING FOUNTAIN, AND WALLS BEHIND JANITOR'S SINK (WHERE TILE IS NOT SCHEDULED).

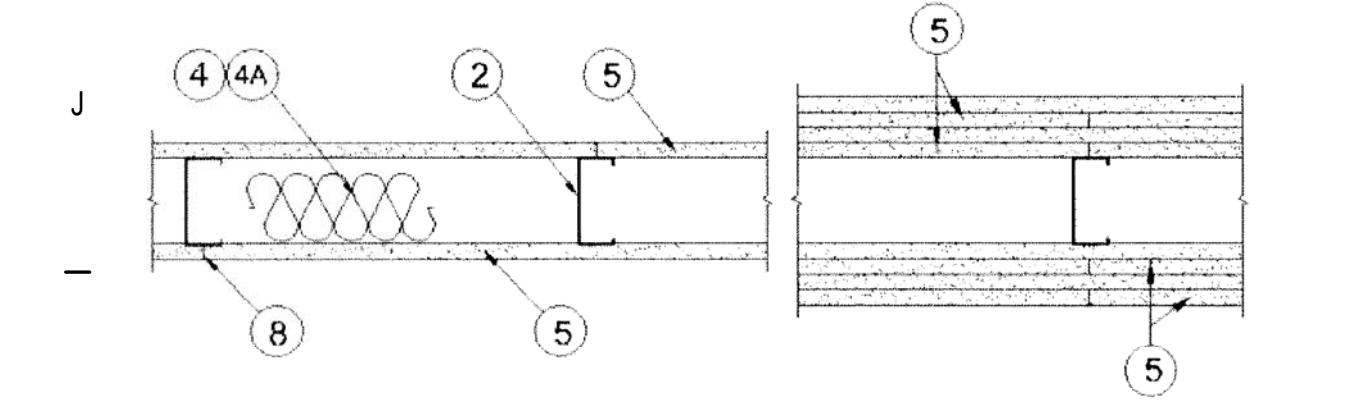


UL ONLINE CERTIFICATIONS DIRECTORY
M
Design No. U419
BXUV.U419
Fire Resistance Ratings - ANSI/UL 263
Page Bottom
Design/System/Construction/Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design No. U419
May 05, 2015
Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5K)

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 Page 6 of 10

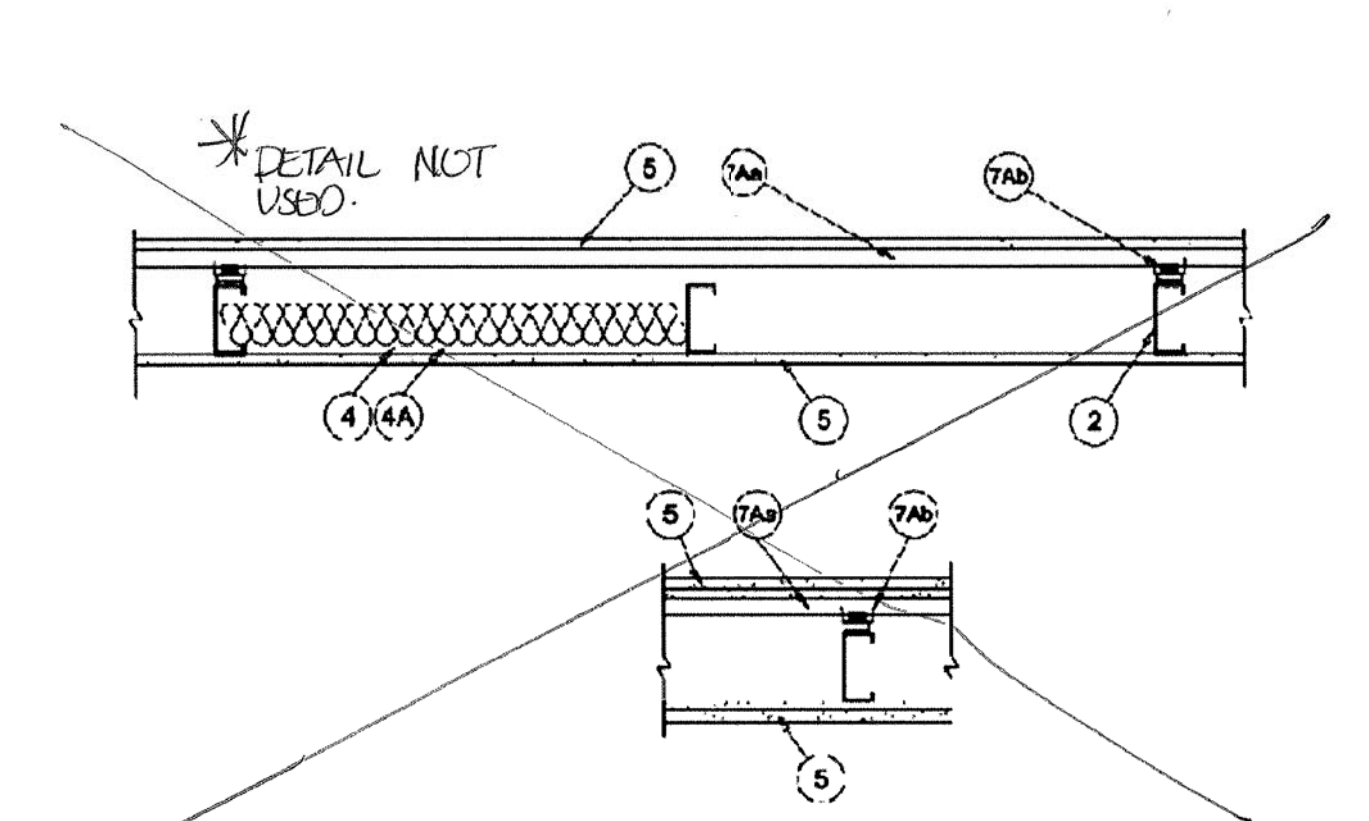
Table with 4 columns: Item #, Description, Rating, and Notes. Items 1 through 6 are listed with various specifications for furring channels, clips, and gypsum board.

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE
USG MEXICO SA DE CV - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.
5A. Gypsum Board* - (As an alternate to Item 5) - 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC - Type SHX.
UNITED STATES GYPSUM CO - Type FRX-G, SHX.
USG MEXICO SA DE CV - Type SHX.

5B. Gypsum Board* - (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 1/2 in. thick products are specified. For direct attachment only to steel studs Item 2A, (per to be used with Item 3) - Nom 5/8 in. or 7/8 in. may be used as alternate to 1/2 in. or 5/8 in. shown in Item 5. Gypsum Board Protection on Each Side of Wall Table, Nom 5/8 in. or 7/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints staggered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Clips or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP - Type RB-LBG
5C. Gypsum Board* - (For Use With Item 2B) Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC - Type SCX.
A1
UL419 1-HR AND 2-HR WALL ASSEMBLY
A7.2 3" = 1'-0"



1. Floor and Ceiling Runners - (Not shown) - For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. Framing Members* - Floor and Ceiling Runner - (Not shown) - In lieu of Item 1 - For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track
CRACO MFG INC - SmartTrack25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track
PHILLIPS MFG CO L L C - Viper25™ Track
1B. Framing Members* - Floor and Ceiling Runner - (Not shown) - In lieu of Item 1 - For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track
PHILLIPS MFG CO L L C - Viper20™ Track
1C. Framing Members* - Floor and Ceiling Runners - (Not shown) - In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.
ALLSTEEL & GYPSUM PRODUCTS INC - Type SUPREME Framing System
CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System
QUAIL RUN BUILDING MATERIALS INC - Type SUPREME Framing System

7A. Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* - Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1/16 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL INC - Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).
7B. Framing Members* - (Optional, Not Shown) - As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels - Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.
b. Steel Framing Members* - Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC - Type IsoTones
7C. Framing Members* - (Not Shown) - (Optional on one or both sides, not shown, for single or double layer systems) - As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels - Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* - Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC - Type GENIECLIP
7D. Steel Framing Members* - (Optional, Not Shown)* - Furring channels and resilient sound isolation clip as described below:
a. Furring Channels - Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured together with four self-tapping No. 8x1/2 Self-Drilling screws (2 per side 1 in. and 4 in. from overlap edge). Gypsum board attached to furring channels as described in Item 6. Side joint furring channels shall be attached to studs with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of length of channel. Both gypsum boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in. from joint edge. Not for use with Item 5A and 5E.
b. Steel Framing Members* - Resilient sound isolation clip used to attach furring channels (Item 7Da) to studs. Clips spaced 24 in. OC, and secured to studs with No. 10 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
STUCCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237 or A237R
8. Joint Tape and Compound - Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.
9. Siding, Brick or Stucco - (Optional, not shown) - Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, no more than each sixth course of brick.
10. Caulking and Sealants* - (Optional, not shown) - A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO - Type AS

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System
STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME Framing System
UNITED METAL PRODUCTS INC - Type SUPREME Framing System
1D. Floor and Ceiling Runners - (Not shown) - For use with Item 2A - Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.
1E. Framing Members* - Floor and Ceiling Runners - (Not shown, As an alternate to Item 1) - For use with Item 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS - CD ProTRAK
DMFCWS L L C - ProTRAK
MBA METAL FRAMING - ProTRAK
RAM SALES L L C - Ram ProTRAK
STEEL STRUCTURAL SYSTEMS L L C - Tri-S ProTRAK
1F. Framing Members* - Floor and Ceiling Runner - (Not shown) - In lieu of Item 1 - For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS - The Edge
1G. Framing Members* - Floor and Ceiling Runner - For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUCCO BUILDING SYSTEMS - CROCSTUD Track
1H. Floor and Ceiling Runners - (Not shown) - Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track VT100.
1I. Framing Members* - Floor and Ceiling Runners - (Not shown, As an alternate to Item 1) - For use with Item 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C - TRUE-TRACK™
1J. Framing Members* - Floor and Ceiling Runner - (Not shown) - In lieu of Item 1 - For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C - Viper25™ Track
1K. Framing Members* - Floor and Ceiling Runner - (Not shown) - In lieu of Item 1 - For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C - Viper20™ Track
2. Steel Studs - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2C. Framing Members* - Steel Studs - (Not shown) - In lieu of Item 2 - proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS - The Edge
2G. Framing Members* - Steel Studs - (Not shown) - In lieu of Item 2 - proprietary channel shaped studs, minimum width indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
STUCCO BUILDING SYSTEMS - CROCSTUD
2H. Framing Members* - Steel Studs - (Not shown, As an alternate to Item 2) - Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C - TRUE-STEEL™
2I. Framing Members* - Steel Studs - (As an alternate to Item 2, For use with Items 5C or 5L or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/8 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES L L C - Viper25™
2J. Framing Members* - Metal Studs - (Not shown) - In lieu of Item 2 - proprietary channel shaped steel studs, min depth as indicated under Item 5, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
TELLING INDUSTRIES L L C - Viper20™
2K. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EE METAL INC - EB-Steel
2L. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OJMAR SUPPLY INC - PRIMESTUD
3. Wood Structural Panel Sheathing - (Optional, For use with Item 5 Only) - (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DCC P51 or P52, or APA Standard PR-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC in the perimeter and 12 in. OC in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.
4. Batts and Blankets* - (Required as indicated under Item 5) - Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or B21Z) Categories for names of Classified companies.
4A. Batts and Blankets* - (Optional) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or B21Z) Categories for names of Classified companies.
4B. Batts and Blankets* - For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or B21Z) Categories for names of Classified companies.
5. Gypsum Board* - 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 (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:
Gypsum Board Protection on Each Side of Wall
Rating, Hr Min Stud Depth, in. No. of Layers & Thickness of Panel Min Thickness of Insulation (Item 4)

REVISIONS
2 RESPONSE TO 08-07-15
FIRE MARSHAL
DRAWN BY: PMI
CHECKED BY: JLR
JOB NUMBER:
FDMA PROJECT NO. 215004
DATE: 06/22/15
DRAWING TITLE: UL419 1-HR AND 2-HR WALL ASSEMBLY
DRAWING NUMBER: A7.2

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