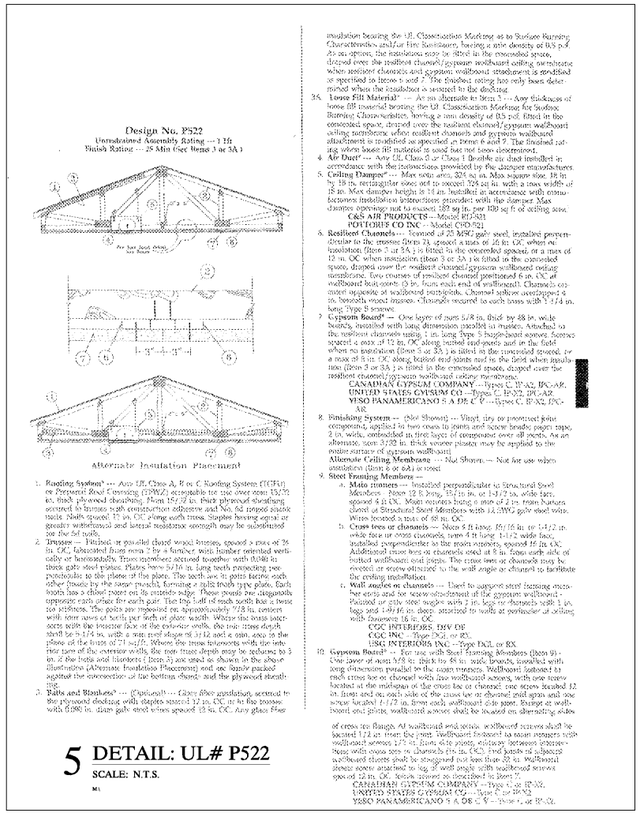
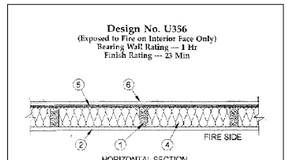


1. **Roofing System*** — Any UL Class A, B or C Roofing System (TCFU) or Preserved Roof Covering (PRWU) acceptable to the code enforcement agency.
2. **Sheathing** — Nominal 15/32 in. thick plywood sheathing, secured to framing with construction adhesive and No. 6d ring-shank nails. Nails spaced 12 in. O.C. along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
3. **Trusses** — Finished or planed dried wood trusses, spaced a max of 24 in. O.C. fabricated from nom 2 by 4 lumber with member oriented vertically or horizontally. Truss members secured together with 10d common wire nails or 3 in. long metal connecting pins punched-in to the plane of the plate. The teeth are to point inward toward each other from the same branch, forming a split tooth type plate. Each tooth has a short point on the centerline edge. Theses teeth are staggered opposite each plate for each gusset. Then top half of each tooth has a bone toe stiffener. The gusset are impressed on approximately 7/8 in. centers with three rows of teeth per inch of plate width. Where the truss members meet with the interior face of the exterior walls, the truss shall be 9 in. wide x 9-1/4 in. wide x min depth of 12 in. and a min area of the plane of the truss of 71 sq.ft. Where the truss intersects with the two near sides of the exterior walls, the two truss depths may be reduced to 5 in. if the bolts and members (item 3) are used as shown in the above illustration (Alternate Insulation Placement) and one family packed against the intersection of the bottom chords and the plywood sheathing.
3A. **Batts and Blankets*** — (Optional) — Glass fiber insulating material to the plywood sheeting with staples spaced 12 in. OC in the trusses with 6 (150) in. thick batt and wires spaced 18 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. At an option, the insulation may be fitted in the extended space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in items 6 and 7. The finished rating may really bases determined when the installation is arranged by the marking.
3B. **Loose Fill Material*** — As an alternate to Item 3 — Any thickness of loose fill insertion bearing the UL Classification Marking for Surface Burning Characteristics, having a min density of 0.5 pcf, fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane, when resilient channels and gypsum wallboard attachment is modified as specified in items 6 and 7. The finished rating when loose fill material is used has not been determined.
4. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturers.
5. **Ceiling Damper*** — Max area 301 sq. in. Max square size 18 in. by 18 in. rectangular sizes not to exceed 726 sq in. with a max width of 18 in. Max damper height is 14 in. Installed in accordance with manufacturers installation instructions provided with the damper. Max clearance openings not to exceed 183 sq in. per 100 sq ft of ceiling area.
   C&S AIR PRODUCTS — Model RT-501
   POTTORFF CO INC — Model CHD-702
6. **Resilient Channels** — Nominal 25 MSG galv steel, installed perpendicular to the trusses (Item 3), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaces, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt joints (3 in. from each end of wallboard). Channels connect opposite at wallboard perimeters. Channel ashlow overlapped 6 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.
7. **Gypsum Board*** — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along resilient end-joints and in the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along resilient end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane.
   CANADIAN GYPSUM COMPANY — Type SCX, IPC-AR, **UNITED STATES GYPSUM CO** — Type C, IP-X2, IPC-AR, **YESO PANAMERICANO S A DE C V** — Types C, IP-X2, IPC-AR
8. **Finishing System** — (Not Shown) — Wood strip or prefinished joint compound, applied to two rows in joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, item 3/3B in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.
   Alternate Ceiling Membrane — Not Shown — Not for use when insulation (Item 6 or 6A) is used.
9. **Steel Framing Members** —
   A. **Main runners** — Installed perpendicular to Structural Steel Members. Nom 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft O.C. Main members being a min of 2 in. from bottom flange of Structural Steel Members with 12 gage galvanized steel hanger wires fastened to main at 48 in. OC.
   B. **Cross ties or chanels** — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long T-bar 1-1/2 wide face, installed perpendicular to the main runners, spaced 48 in. OC. Additional cross ties or channels used at 4 in. from each side of butted wallboard end joints. The cross ties or channels may be erected or screw-attached to the wall angle or channels to facilitate the ceiling installation.
   C. **Wall angles or channels** — Used to support steel framing members and wallboard attachment of the gypsum wallboard. Fastened at side steel angles with 2 in. legs or channels with 1 in. legs and 7/8 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC.
      CGC INTERIORS, DIV OF
      CGC INC — Type ZCI, or RX.
      USG INTERIORS INC — Type DCI, or RX.
10. **Gypsum Board*** — For use with Steel Framing Members (Item 9) — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimensions parallel to the main runners. Wallboard butted at each cross tee or channel with face wallboard screws, with one screw located at the midspan of the cross tee or channel. The screws located 12 in. from end in each side of the cross tee or channel and one screw located 1-1/2 in. from each wallboard side joint. Staples or wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flanges. At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to steel members with wallboard screws 1/2 in. from side joints, endjoint between intermediate cross tees nom 4 in. (Item 9) in. O.C. For butts of adjacent wallboard sheets shall be staggered not less than 24 in. Wallboard sheets attached to leg of wall angle with wallboard screws spaced 12 in. OC. Finish screws as described in Item 7.
    CANADIAN GYPSUM COMPANY — Type C or IP-X2
    UNITED STATES GYPSUM CO — Type C or IP-X2
    YESO PANAMERICANO S A DE C V — Types C or IP-X2

5 DETAIL: UL# P522
SCALE: N.T.S.



Design No. U356
(Exposed to Fire on Interior Face Only)
Bearing Wall Rating — 1 Hr
Finish Rating — 25 Min

1. **Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC with two 2 by 4 in. top and one 2 by 4 in. soleplate plates. Studs laterally-braced by wood structural panel sheathing (Item 3) and effectively fire stopped at top and bottom of wall.
2. **Gypsum Board*** — Any Classified 5/8 in. thick, 4 ft wide, applied vertically and nailed to studs and bearing plates 7 in. OC with 6d cement-coated nails, 1-7/8 in. long with 1/4 in. diam head.
   See **Gypsum Board** (CKNX) Category for names of Classified Companies.
3. **Joints and Nailheads** — (Not Shown) — Wallboard joints covered with tape and joint compound. Nail heads covered with joint compound.
4. **Batts and Blankets*** — Mineral fiber or glass fiber insulation, 3-1/2 in thick, pressure fit in 5/8 in wall cavity between studs and plates. Mineral fiber insulation to be unfaced and to have a min density of 3 pcf. Glass fiber insulation to be faced with aluminum foil or kraft paper and to have a min density of 0.9 pcf (min R-13 thermal insulation rating).
   See **Batts and Blankets** (BKNV) Category in the Building Materials Directory and Batts and Blankets (BZD) Category in the Fire Resistance Directory for names of Classified Companies.
5. **Wood Structural Panel Sheathing** — Min 7/16 in. thick, 4 ft wide wood structural panels, min grade "C-D" or "Sheathing", installed with long dimension or sheet strength axis) or face grain of plywood parallel to studs or perpendicular to studs. Vertical joints centered on studs. Horizontal joints backed with nom 2 by 4 in. wood blocking. Attached to studs on exterior side of wall with 6d cement coated box nails spaced 6 in. OC at perimeter of panels and 12 in. OC along intermediate studs.
6. **Exterior Facings** — Installed in accordance with the manufacturer's installation instructions. One of the following exterior facings is to be applied over the sheathing.
   A. **Vinyl Siding — Molded Plastic*** — Contoured rigid vinyl siding having a flame spread value of 20 or less.
      See Molded Plastic (JHAU) category in the Building Materials Directory for names of manufacturers.
   B. **Particle Board Siding** — Hardboard exterior sidings including patterned panel or lap siding.
   C. **Wood Structural Panel or Lap Siding** — APA Rated Siding, Exterior plywood, OSB or composite panels with veneer faces and structural wood core, per PS 1 or APA Standard PRP-108, including textured, rough sawn, medium density overlay, brushed, grooved and lap siding.
   D. **Cementitious Stucco** — Portland cement or synthetic stucco system with wire fabric reinforcement and coat. Thickness from 3/8 to 3/4 in., depending on system.
   E. **Brick Veneer** — Any type or nom 4 in. wide brick veneer. When brick veneer is used, the rating is applicable with exposure on either face. Brick veneer fastened with corrugated metal wall ties at least every alternate or wood studs with 8d nail per tie; ties spaced not more than each sixth course of brick and max 24 in. OC horizontally. One in. air space provided between brick veneer and sheathing.
   F. **Exterior Insulation and Finish System (EIFS)** — Nom 1 in. Foamed Plastic* Insulation bearing the UL Classification Marking, attached over sheathing and finished with coating system, or Portland cement or synthetic stucco systems, in accordance with manufacturer's instructions. See **Foamed Plastic** (BRYA and CCVW) categories for names of Classified companies.
   G. **Siding** — Aluminum or steel siding attached over sheathing to studs.

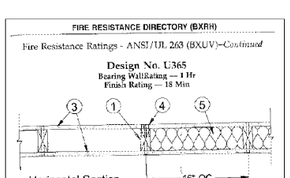
*Bearing the UL Classification Mark

2 DETAIL: UL# U356
SCALE: N.T.S.

FIRE RESISTANCE DIRECTORY (BXRH)

Fire Resistance Ratings - ANSI/UL 263 (BXUV)–*Continued*

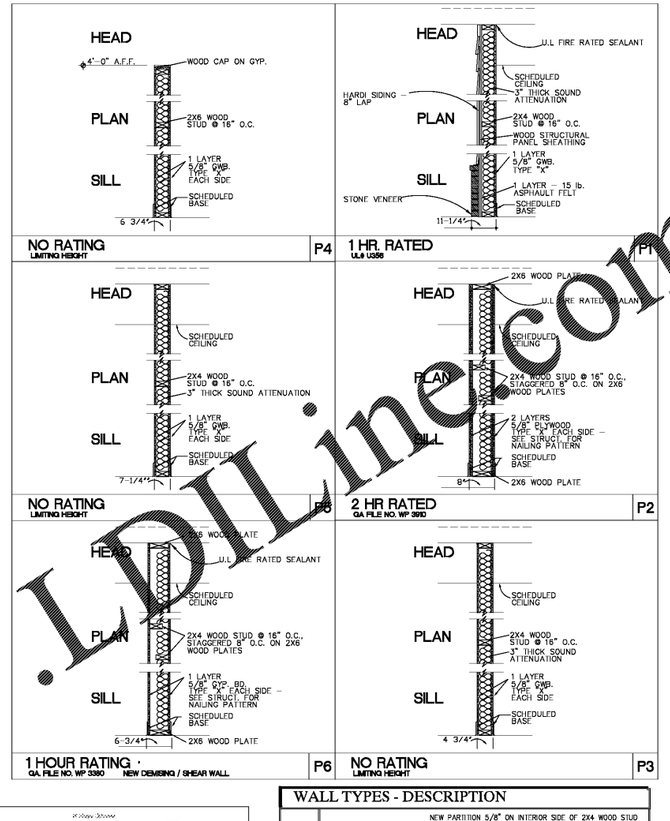
Design No. U365
Bearing Wall Rating — 1 Hr
Finish Rating — 18 Min



1. **Wood Studs** — Nom 2 by 4 in., spaced 16 in. OC.
2. **Bearing Plate** — (Not Shown) — Nom 2 by 4 in.
3. **Gypsum Board*** — 5/8 in. thick wallboard paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Wallboard fastened with **Wall and Partition Facings and Accessories* (Item 4).** When used in widths of other than 48 in., wallboard is to be installed horizontally.
   AMERICAN GYPSUM CO — Types AGX-1, AGX-2, AGX-2, AGX-7, AGX-11, AG-C
   BEIJING NEW BUILDING MATERIALS CO LTD -- Type DBX-1,
   CANADIAN GYPSUM COMPANY —Type AR, C, FCV, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX, FRC
   BPB AMERICA INC
   BPB CELOTEX — Type L, SFG, A, B, C or FRP.
   CONTINENTAL GYPSUM COMPANY -- Type CG-1, CG-2, CG-3, CG2-3, CG-5, CG5-8, CG6-8, CG-5W, CG-5WS, CG-6WS, CG-8, CG5-8, CG-C, CG7T6-8, CG9-9, CG7T6-5, CGT6-C.
   G-P GYPSUM CORP, SUB OF
   GEORGIA-PACIFIC CORP -- Type 5, 6, 9, C, DGG, GPES,. GPFS, GPFSS.
   JAMES HARDIE GYPSUM INC —Type Fire X, Max "C"
   LAFARGE GYPSUM, DIV OF
   LAFARGE CORP -- Type LGFC2, LGFC3, LGFC5, LGFC-C, LGFC5A, LGFC2-CA ,
   NATIONAL GYPSUM CO —Type 1SK, 1SK-C, FSK-G, FSW, FSW-2, FSW-3, FSW-C, FSW-G.
   NATIONAL GYPSUM CO — Type ES or Wil.
   PABCO GYPSUM, DIV OF
   PACIFIC COAST BUILDING PRODUCTS INC --Types C, PG-2, PG-5, PG-5W, PG-6, PG-6, PG 3WS, PG-5WS, PG-5, PG-9 or PG-C.
   REPUBLIC GYPSUM CO —Type RG-1, RG-2, XG-3, RG-4, RG-6 or RG-C.
   SIAM GYPSUM INDUSTRY CO LTD -- Type EG-1
   STANDARD GYPSUM L L C—Type SGC, SGC-3, SGC-C or SGC-G.
   TEMPLE-INLAND FOREST PRODUCTS CORP -- Types T, VPB-Type T, WR-T, T SHTC, FRX 6, VPBX-6, FRWRX 6, TG-C or FRX-5 Exterior Gypsum Soffit Board.
   UNITED STATES GYPSUM CO—Types AR, C, FCV, FRX, IP-X1,IP-X2, IPC-AR, SCX, WRX, WRC, SHX.
   WESTROC INC — Type Gold Bond Fireboard.
   YESO PANAMERICANO S A DE C V --Types AR, C, FCV, IP-X1, IP-X2, IPC-AR, WRX, WRC, SHX, SCX.
4. **Wall and Partition Facings and Accessories*** -Staples — 2 in. long 16 gauge staples max 8 in. OC along vertical joints and 6 in. OC in the field.
   PASLODE
   ILLINOIS TOOL WORKS CO
5. **Batts and Blankets*** — (Optional, Not Shown) glass fiber or mineral wool insulation.
   CERTAINTEED CORP
   JOHNS MANVILLE INTERNATIONAL INC
   KNAUF FIBER GLASS GMBH
   ROCKWOOL MANVILLE CO INC -- Delta Board
   ROXUL INC
   THERMAFIBER L L C — Type SAFB
6. **Finishing System** — Wallboard joints covered with paper tape and joint compound. Staples covered with joint compound.

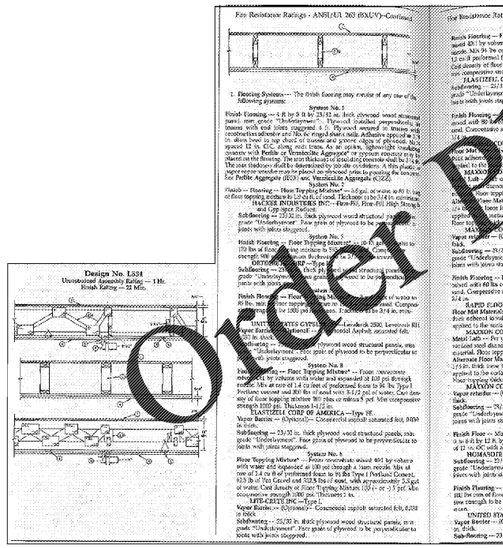
*Bearing the UL Classification Mark

1 DETAIL: UL# U365
SCALE: N.T.S.

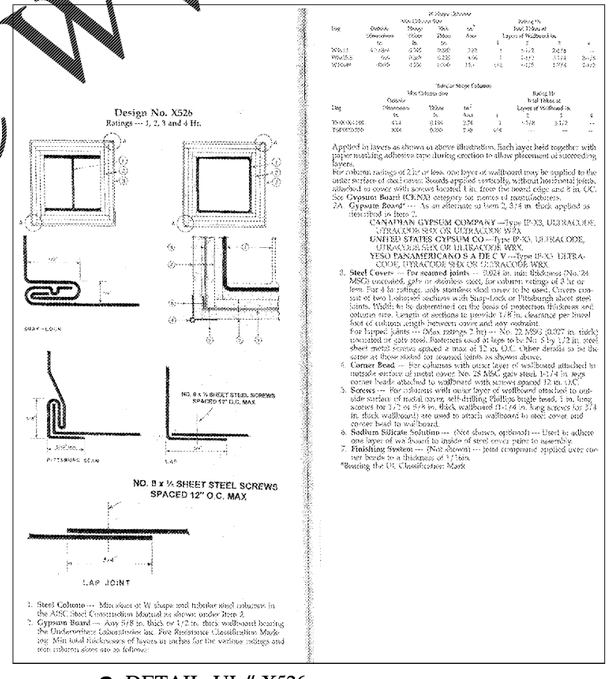


WALL TYPES - DESCRIPTION

P1		NEW PARTITION 5/8" ON INTRIOR SIDE OF 2X4 WOOD STUD AND 1 LAYER 15 lb. ASPHAULT FELT AND 7/16" MIN. WOOD STRUCTURAL PANEL SHEATHING ON EXTERIOR SIDE TO STRUCTURE ABOVE. EXTERIOR FINISH IS HARDI SIDING/STONE VENTER. 3" THICK SOUND ATTENUATION INSTALLED.
P2		NEW 2 HR FIRE RATED PARTITION 2 LAYERS 5/8" GYP EA. SIDE ON 2x4 WOOD STUD AT 16" O.C., STAGGERED @ 8" O.C. ON 2x6 WOOD PLATES, TO STRUCTURE ABOVE.
P3		NEW PARTITION 5/8" GYP EA. SIDE OF 2X6 WOOD STUD AT 16" O.C. TO STRUCTURE ABOVE. 3" THICK SOUND ATTENUATION INSTALLED.
P4		NEW PARTITION 5/8" GYP EA. SIDE OF 2X6 WOOD STUD AT 16" O.C. TO 45° A.F.F. TOP WITH WOOD CAP. SEE 5/A6.1.
P5		NEW PARTITION 5/8" GYP EA. SIDE OF 2X6 WOOD STUD AT 16" O.C. TO STRUCTURE ABOVE. 3" THICK SOUND ATTENUATION INSTALLED.
P6		NEW 1 HR FIRE RATED PARTITION 1 LAYER 5/8" GYP EA. SIDE ON 2x4 WOOD STUD AT 16" O.C., STAGGERED @ 8" O.C. ON 2x6 WOOD PLATES, TO STRUCTURE ABOVE.



6 DETAIL: UL# L534
SCALE: N.T.S.



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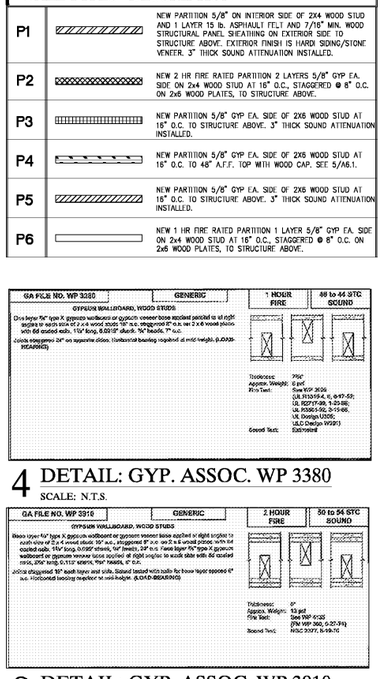
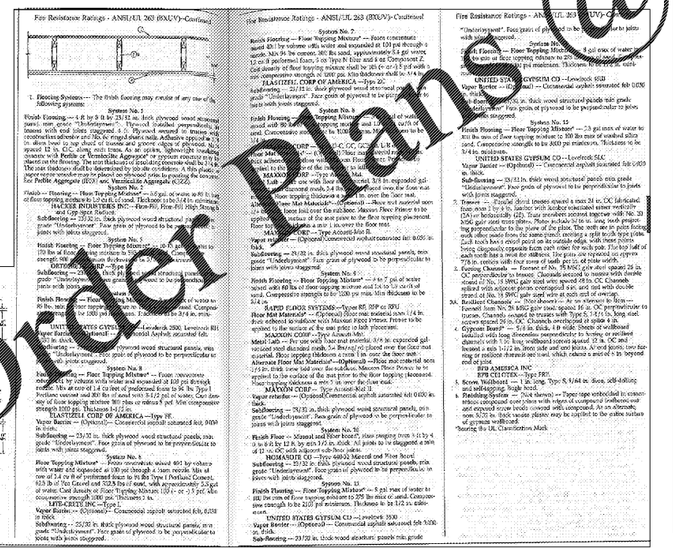
SCALE: N.T.S.



4 DETAIL: GYP. ASSOC. WP 3380
SCALE: N.T.S.

8 DETAIL: GYP. ASSOC. WP 3910
SCALE: N.T.S.



7 DETAIL: GYP. ASSOC. WP 3242
SCALE: N.T.S.

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Kirby@patedesigngroup.com

F-3 UNIT
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Will-O-War LLC
75 North Main Street
Watkinsville, GA 30677

Issue & Revisions:

No.	Date	Description
1	04.01.19	CLARIFICATION

PARTITION TYPES/DETAILS

Drawn: MWB
Checked: KEP
Contract No.
Scale: AS NOTED

STATE OF GEORGIA — KIRBY E. PATE — REGISTERED ARCHITECT

A6.1
04.01.19 of sheets

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