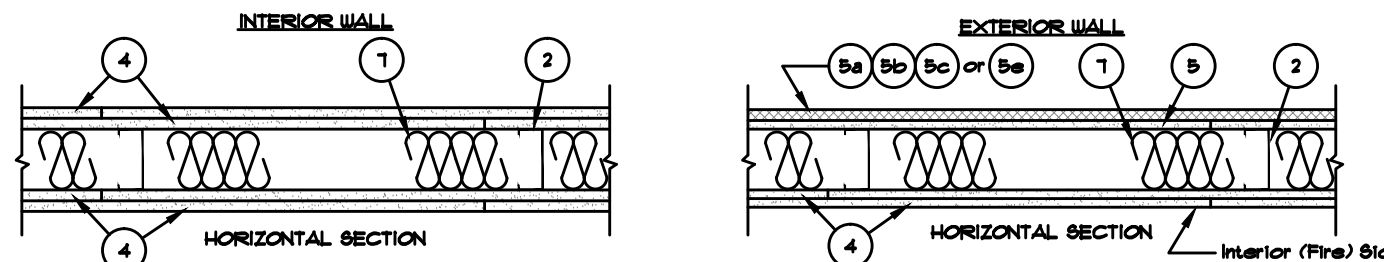


UL DESIGN NO. U42B

For Exterior Walls, Ratings Applicable For Exposure to Fire On Interior Face Only (See Items 4 and 5) Bearing Wall: 1/2, or 2 HR. (See Items 2 and 4)



1. Steel Floor and Ceiling Trusses - (Not shown) - Top and bottom tracks of wall assemblies shall consist of steel members, such as No. 30 HSS (6025) in, etc. bare metal (HSS) or steel No. 30 HSS (6025) in, thick galv steel, or No. 20 HSS (6025) in, thick galv steel, that provide a sound structural connection between steel studs, and to adjacent assemblies such as a floor, ceiling, and/or other walls. Attached to floor and ceiling assemblies with steel fasteners using the following:

2. Steel Studs - 1/2 in. x 3 1/2 in. x 16 ft. No. 30 HSS (6025) in, etc. bare metal (HSS) or steel No. 30 HSS (6025) in, thick galv steel, shall be used in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details affecting the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local agencies. The use and spacing of wall assemblies shall not exceed 24 in. OC when 1/2 in. OC or 16 in. OC when 1/2 in. OC is used. Studs attached to floor and ceiling trusses with 1/2 in. long Type 8-2 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AIA specifications.

3. Framing Members - Steel Studs - 1/2 in. x 3 1/2 in. x 16 ft. No. 30 HSS (6025) in, etc. bare metal (HSS) or steel No. 30 HSS (6025) in, thick galv steel, shall be used in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details affecting the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local agencies. The use and spacing of wall assemblies shall not exceed 24 in. OC when 1/2 in. OC or 16 in. OC when 1/2 in. OC is used. Studs attached to floor and ceiling trusses with 1/2 in. long Type 8-2 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AIA specifications.

4. Lateral Support Members - (Not shown) - Where required for lateral support of studs, support may be provided by means of steel strips, channels or other similar items as specified in the design of a particular steel stud wall system.

5. Gypsum Boarding - 1/2 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 1/2 in. thick	100
1-1/2 hr.	2 Layers, 1/2 in. thick	100
2 hr.	3 Layers, 1/2 in. thick	100

6. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

7. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

8. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

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Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

10. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

11. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

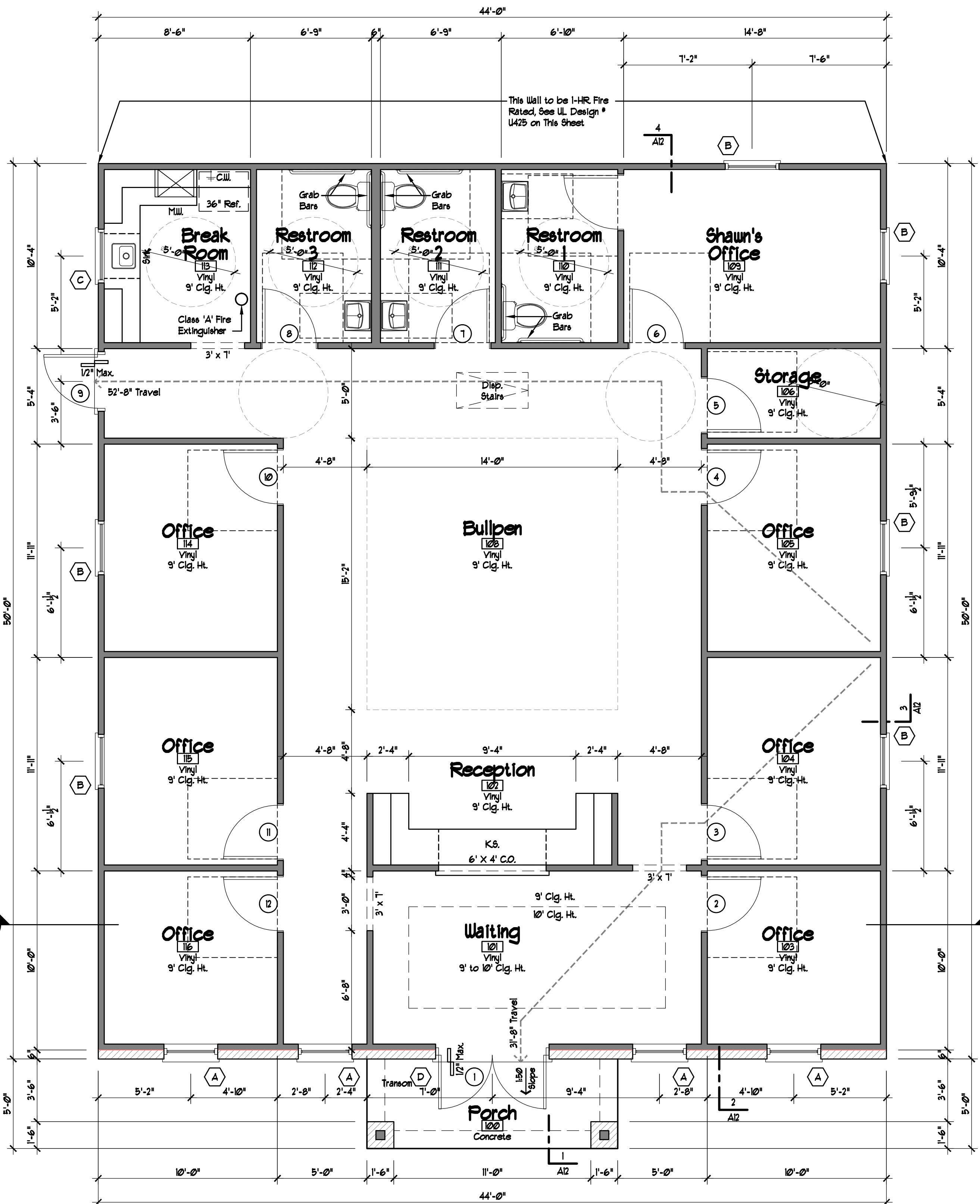
Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

12. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100

13. Gypsum Boarding - 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design No. 1855, Any 5/8 in. thick, UL Classified Gypsum Board that is eligible for use in Design Nos. 1360, 682 or 1250. Gypsum Boarding shall be applied vertically with joints staggered. Outer layer of 3/8 in. gypsum board shall be applied horizontally unless otherwise specified below. The thickness and number of layers and percent of design load for the 45 min, 1-1/2 hr, and 2 hr ratings are as follows:

Rating	Number of Layers and Thickness of Boards in Each Layer	Percent of Design Load
45 min.	1 Layer, 5/8 in. thick	100
1-1/2 hr.	2 Layers, 5/8 in. thick	100
2 hr.	3 Layers, 5/8 in. thick	100



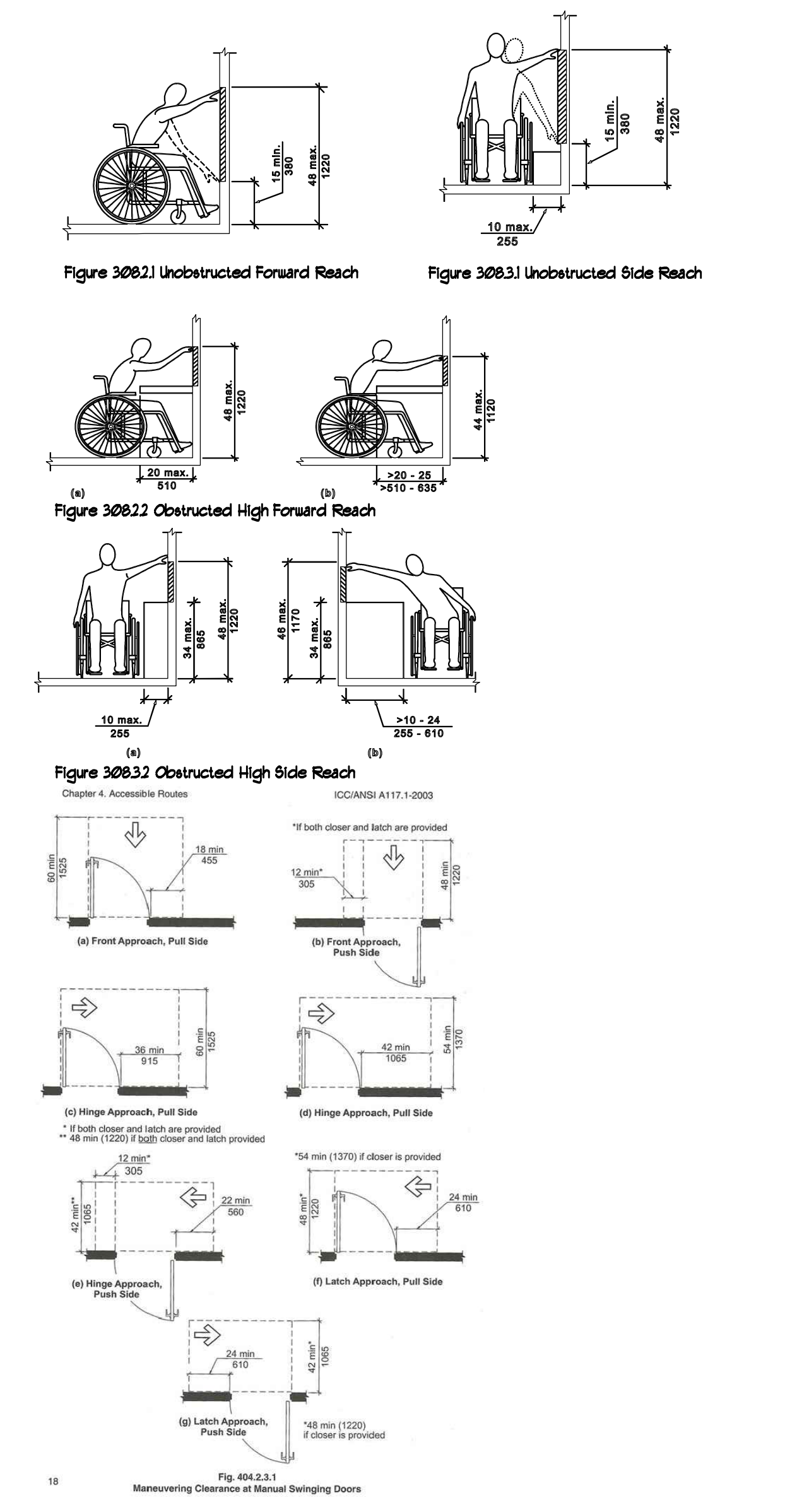
FIRST FLOOR PLAN

1/4" = 1'-0"

Fire Walls:
 1. Horizontal continuity. Fire walls shall be continuous from exterior wall to exterior wall and shall extend at least 18 inches beyond the exterior surface of exterior walls.
 --Exceptions: 1. Fire walls shall be permitted to terminate at the interior surface of combustible exterior sheathing or siding provided the fire-resistance rating of at least 1 hour from a horizontal distance of at least 4 feet on both sides of the fire wall. Openings within such exterior walls shall be protected by fire assemblies having a fire protection rating of not less than 3/4 hour. 2. Fire walls shall be permitted to terminate at the interior surface of noncombustible exterior sheathing, exterior siding or other noncombustible exterior finishes provided the sheathing, siding, or other exterior noncombustible finish extends a horizontal distance of at least 4 feet on both sides of the fire wall.
 2. Vertical continuity. Fire walls shall extend from the foundation to a termination point at least 30 inches above both adjacent roofs.
 --Exceptions: 4. In building of Type III, IV and V construction, walls shall be permitted to terminate at the underside of combustible roof sheathing or decks provided: 4.1 There are no openings in the roof within 4 feet of the fire wall, 4.2. The roof is covered with a minimum Class B roof covering, and 4.3. The roof sheathing or deck is constructed of fire-retardant-treated wood for a distance of 4 feet on both sides of the wall or the roof is protected with 5/8 inch Type X gypsum board directly beneath the underside of the roof sheathing or deck, supported by a minimum of 2-inch nominal laggers attached to the side of the roof framing members for a minimum distance of 4 feet on both sides of the fire wall.

30821 Forward Reach Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" (1220 mm) maximum and the low forward reach shall be 34" (865 mm) minimum above the finish floor or ground.
 30822 Forward Reach Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The High Forward Reach shall be 48" (1220 mm) maximum where the reach depth is 10" (255 mm) maximum. Where the reach depth exceeds 20" (510 mm), the high forward reach shall be 44" (1118 mm) maximum and the reach depth shall be 25" (635 mm) maximum.
 30831 Side Reach Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" (1220 mm) maximum and the low side reach shall be 34" (865 mm) minimum above the finish floor or ground.
 30832 Side Reach - Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction the height of the obstruction shall be 34" (865 mm) maximum and the depth of the obstruction shall be 24" (610 mm) maximum. The high side reach shall be 48" (1220 mm) maximum for a reach depth of 10" (255 mm) maximum where the reach depth exceeds 10" (255 mm), the high side reach shall be 46" (1168 mm) maximum for a reach depth of 24" (610 mm) maximum.
 EXCEPTIONS:
 1. The top of washing machines and clothes dryers shall be permitted to be 36" (915 mm) maximum above the floor.
 2. Operable parts of fuel dispensers shall be permitted to be 54" (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

30821 Unobstructed Forward Reach
 30831 Unobstructed Side Reach
 30822 Obstructed High Forward Reach
 30832 Obstructed High Side Reach



Approximate Footage

First Floor Office	2 2 0
Porch	1 0
Total Covered Area	2 2 7 0

P A I

PURSER ARCHITECTURAL INC.
 5702 FOURTH STREET
 KATY, TEXAS 77493
 TEL: 281-293-9291
 FAX: 281-293-7246
 E-MAIL: PURSER.A@GMAIL.COM
 WWW.DONPURSER.COM

HENNESSEE BUILDING COMPANY

THOMPSON OFFICE BUILDING
 24542 KINGSLAND BLVD.
 KATY, TX 77450

DATE OF ISSUE

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PROJECT NUMBER

2200

DATE: 12/21/2016

SHEET NUMBER:

A03