ZONING

BUILDING ADDRESS: 713 INDIANA

OWNER: WILL KILTY, 713 INDIANA, LLC OWNERS ADDRESS: 719 SCOTT AVE, STE. 712, WICHITA FALLS, TX 76301

OWNERS PHONE NO.: 323-252-8699

PROPERTY LEGAL DISCRIPTION: LOT 11 BLK. 163 ORGINAL TOWN, WF

PROPERTY ZONED: CBD

PROPERTY EXISTING USE: REBUILT FROM RETAIL

PROPERTY PROPOSED USE: ASSEMBLY / RESTAURANT / BREWERY

LANDSCAPING: UNDETERMINED BUFFERING: N/A

IRRIGATION: N/A PAVING:N/A

FLOOD ZONE: BUILDING DOES NOT LIE WITHIN THE 100 FLOOD PLAIN

PARKING: CENTRAL BUSINESS DISTRICT

STORM WATER DETENTION: N/A

2015 INTERNATIONAL BUILDING CODE

BUILDING ADDRESS: 713 INDIANA AVE.

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATIONS

BUILDING STATUS (NEW/EXIST): EXISTING BUILDING

BUILDING SQUARE FOOTAGE: FIRST FLOOR = 7,250, SECOND FLOOR = 3,522 TOTAL G.S.F. = 10,772 BUILDING CLASSIFIED USES: PROPOSED GROUP "A-2"

THIS OCCUPANCY GROUP: WHITE BOX FOR FUTURE OCCUPANCY GROUP "A-2" (RESTAURANT/BREWERY)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS: CONSTRUCTION TYPE III-B

TABLE 504.3 ALLOWABLE HEIGHT: 75', BUILDING < 35' HIGH

TABLE 504.4 STORIES ALLOWED 3 - BUILDING IS TWO STORY TABLE 506.2 ALLOWABLE AREA THIS OCCUPANCY: 28,500 G.S.F. (TOTAL THIS BUILDING IS 10,772 G.S.F.)

SECTION 508 MIXED USE AND OCCUPANCY

508.2 ACCESSORY OCCUPANCIES: N/A 503.3 NON SEPARATED OCCUPANCIES - N/A

AREA MODIFICATIONS DUE TO FRONTAGE INCREASE 506.2 - NOT UTILIZED

CHAPTER 6: TYPES OF CONSTRUCTION:

BUILDING CONSTRUCTION TYPE: III-B TABLE 601: FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS, FOR TYPE III-B = 0 HR, EXTERIOR BEARING WALL = 2HRS

TABLE 602: FIRE RESISTANCE RATING REQUIREMENTS FOR EXT. WALLS BASED UPON SEPARATION DISTANCE

FOR TYPE III-B, X < 5 = 1 HR. FOR GROUP A

CHAPTER 7: FIRE RESISTANCE RATINGS

707.3.9 FIRE BARRIER - SEPARATED OCCUPANCIES - N/A

708.1 FIRE PARTITIONS - CORRIDOR WALLS AS PER 1020.1 - GROUP "A" SPRINKLED BUILDING - 0 HRS

FLOOR TO FLOOR SEPARATION: N/A

TENANT SEPARATION: N/A

STAIR COMPARTMENT PROTECTION: N/A

CHAPTER 8: INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY FOR GROUP-"A-2" (SPRINKLED BUILDING):

EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS - B

ON A FLOOR OTHER THAN THE LEVEL OE EXIT DISCHARGE)

CORRIDORS: CLASS - B (LOBBY AREAS SHALL NOT BE LESS THAN CLASS B MATERIALS) ROOMS AND ENCLOSED SPACES: CLASS - C

CHAPTER 9: FIRE PROTECTION SYSTEMS:

903.2.1.3 - GROUP "A-2" - REQUIRED (S.F. GREATER THAN 5.000 S.F., OCCUPANT LOAD GREATER THAN 100 AND FIRE AREA IS

906.1 FIRE EXTINGUISHERS AND TABLE 903.6.(1), TABLE 906.3: REQUIRED AND PROVIDED: 2 - GENERAL 2A, 10B, C

TYPE "K" TO BE PROVIDED IN KITCHEN BY TENANT.

SECTION 907 FIRE ALARM AND DETECTION SYSTEMS: 907.2 WHERE REQUIRED - NOT REQUIRED IN SPRINKLED BUILDINGS

907.2.1 GROUP "B": MANUAL ALARM SYSTEM IS NOT REQUIRED IN GROUP "B" (DOES NOT MEET THRESHOLD STATED)

907.2.11 SINGLE - AND MULTIPLE - STATION SMOKE ALARMS NOT REQUIRED BUT WILL BE PROVIDED THROUGH OUT MEETING UL217

CHAPTER 10 - MEANS OF EGRESS (FROM OCCUPANCY TABLE 1004.1.1): SEE TABULATION ON SHEET NO. 12

SECTION 1004 OCCUPANT LOAD 1004.1 DESIGN OCCUPANT LOAD. SECTION 1004.1.2 DINING AREAS

FIRST FLOOR DINING AREA = 207

SECOND FLOOR DINING AREA = 166

TOTAL OCCUPANCY = 273

1004.1 TOTAL CALCULATED OCCUPANCY LOAD FOR DETERMINING MEANS OF EGRESS PURPOSES = 273 PERSONS BY CALCULATION

****ACTUAL OCCUPANCY TO BE DETERMINED BY TENANT FINISH OUT

SECTION 1005 - MEANS OF EGRESS SIZING:

SECTION 1005.3.2 - OTHER EGRESS COMPONENTS: 273 PERSONS x .20 in = 54.6 in. (144 IN PROVIDED x 50% LOSS = 72 IN,)

TABLE 1006.2.1 NUMBER OF EXITS REQUIRED BY OCCUPANT LOAD TABLE 1006.3.1: 2 NUMBER PROVIDED: 3

SECTION 1007 - EXIT AND EXIT ACCESS DOORWAY CONFIGURATION: DOORS MEET REQUIRED SEPARATION (> THAN 1/2 DIAGONAL) SECTION 1008 - MEANS OF EGRESS ILLUMINATION: REQUIRED AND PROVIDED W/ 90 MIN. BATTERY BACKUP

SECTION 1009 - ACCESSIBLE MEANS OF EGRESS: COMPLIANCE W/ ADAG SECTION 1010 - DOORS, GATES AND TURNSTILES:

SECTION 1013 EXIT SIGNS: REQUIRED AND PROVIDED (LIGHTED W/ 90 MIN. BATTERY BACKUP) MORE MAY BE ADDED BY UNDER TENANT FINISH OUT TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE: GROUP "A" = 250' (ALLOWED IN SPRINKLERED SPACES) 72' THIS SPACE

CHAPTER 11: ACCESSABILITY IN COMPLIANCE WITH: TAS, ICC AND ADAG

TABLE 1020.1 CORRIDOR EGRESS PROTECTION = N/R (0 HR WHEN SPRINKLED BUILDING)

CHAPTER 29: PLUMBING SYSTEMS

PLUMBING FIXTURES REQUIRED (TABLE 2902.1): TOILETS - A-2: 1 PER 40 MALE, 1 PER 40 PER FEMALE

273/2 = 137 / 40 = 3 TOILETS EACH

LAVATORIES - 1 PER 200 MALE/FEMALE 273 / 2 = 137 / 100 = 1.3

1 DRINKING FOUNTAIN: N/R IN RESTAURANTS SERVING WATER

1 SERVICE SINK

PLUMBING FIXTURES PROVIDED:

FIRST FLOOR: MENS TOILET - 2 TOILETS (1H.C.) + 1 URINAL WOMENS TOILET 3 TOILETS (1 H.C.) SECOND FLOOR: MENS TOILET- 1 H.C. TOILET + 1 URINAL WOMENS TOILET - 2 TOILETS (1 H.C.)

2 LAVATORIES EA. MALE/FEMALE PER FLOOR (TOTAL 8 LAVATORIES)

2 SERVICE SINK (1 PER FLOOR)

HANDICAP ACCESSABILITY: ADAG AND ICC BUILDING CODE: 2015 I- CODES "INTERNATIONAL BUILDING CODE*** (W/AMENDMENTS) AND 2005 NEC (W/AMENDMENTS)

LIFE SAFETY CODE: NFPA 101, 2012 & NFPA 70, 2008

A White Box

tor

713 Indiana, LLC

713 Indiana Wichita Falls, TX

SCOPE OF WORK:

THIS PERMIT APPLICATION IS FOR A "WHITE BOX" PREPARATION BY THE OWNER/LANDLORD FOR THE TENANT.

REMAINING ITEMS LIKE THE HVAC SYSTEM, ELECTRICAL (LIGHTING & POWER) KITCHEN & BAR DESIGN WILL BE IN ACCORDANCE WITH THE TENANTS NEEDS.

THE TENANT PERMIT APPLICATION (PLANS) WILL PROVIDE THE REMAINDER OF ITEMS NEEDED FOR THE C.O. FOR ITS OCCUPANCY

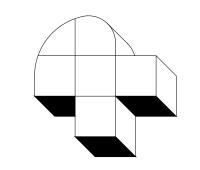
SHEET INDEX

No. Title

- Cover Sheet Drawing Index Code Review
- First Floor Demo
- Concrete Demo/Repair @ Entry Area "A"
- 1st Floor Plan Dimension Area "A"
- 1st Floor Plan Dimension Area "B"
- 2nd Floor Plan Dimension Area "A"
- 1st Floor Plan Life Safety
- 2nd Floor Plan Life Safety
- Interior Elevations
- 2nd Floor Framing Plan
- Exterior Elevation Front (West) Exterior
- West Elevation @ Middle Wall
- West Elevation @ Rear Wall
- Section
- Section
- Section
- 1st Floor Water Distribution Area "A"
- 1st Floor Sanitary Sewer Area "A"
- 1st Floor Sanitary Sewer Area "B"
- 2nd Floor Water Dist. & Sani. Sewer Area "A"
- 1st Floor HVAC Area "A"
- 1st Floor HVAC Area "B"
- 2nd Floor HVAC Area "A"
- 1st Floor Electrical Area "A"
- 1st Floor Electrical Area "A"
- Electrical Riser & Panel Schedule

2nd Floor - Electrical - Area "A"

- Texas Accessability 1 of 3
- Texas Accessability 2 of 3
- Texas Accessability 3 of 3



Phillip B. Townsend, R.A.

Architect, Interior Design, Programmer, Planner, Building Code Consultant 4613 Misty Valley West Wichita Falls, Texas 76310 940-642-3590



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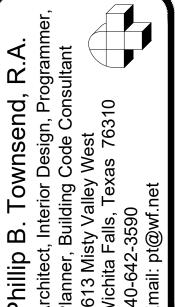
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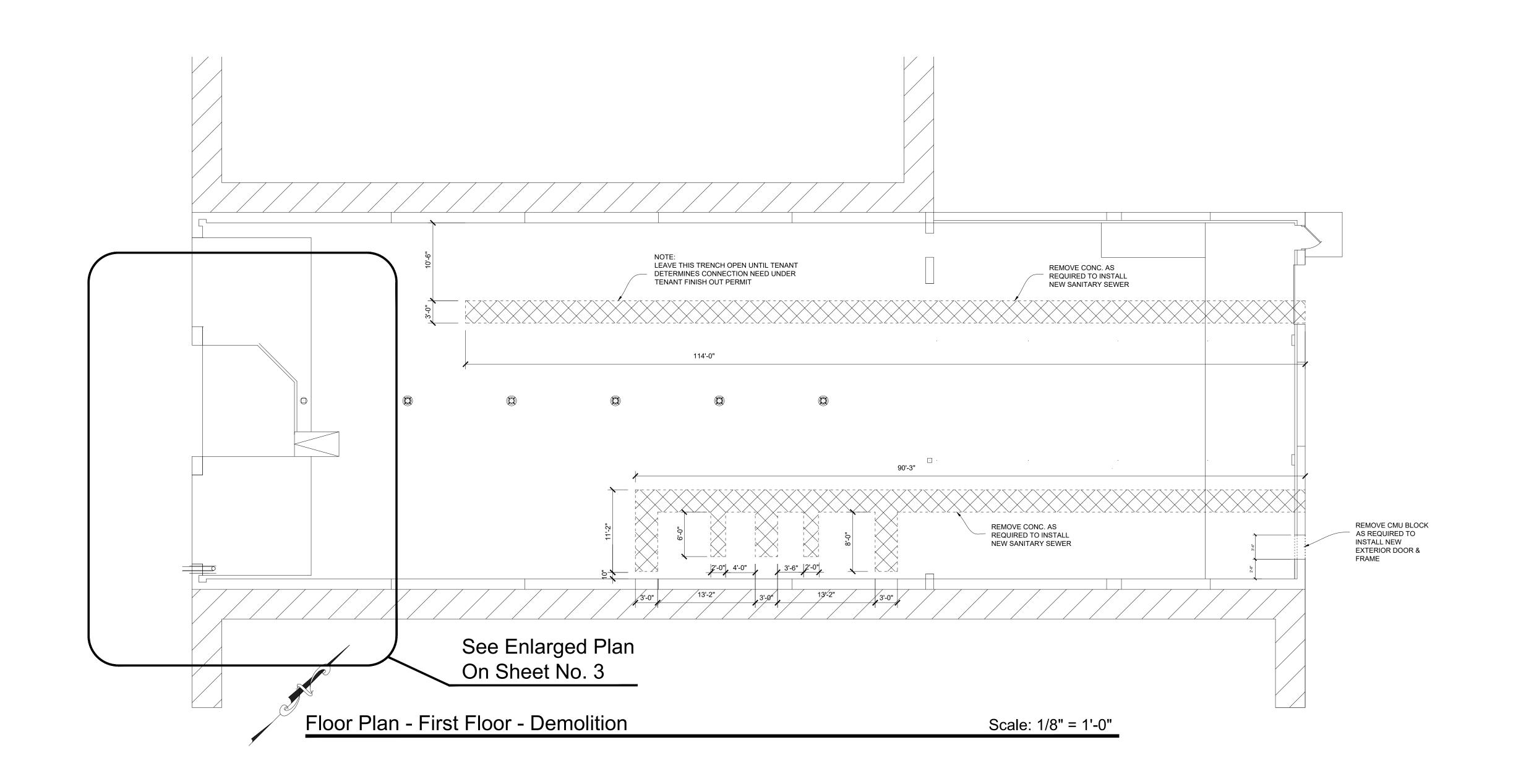
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enstruction or building being seized and/or razed



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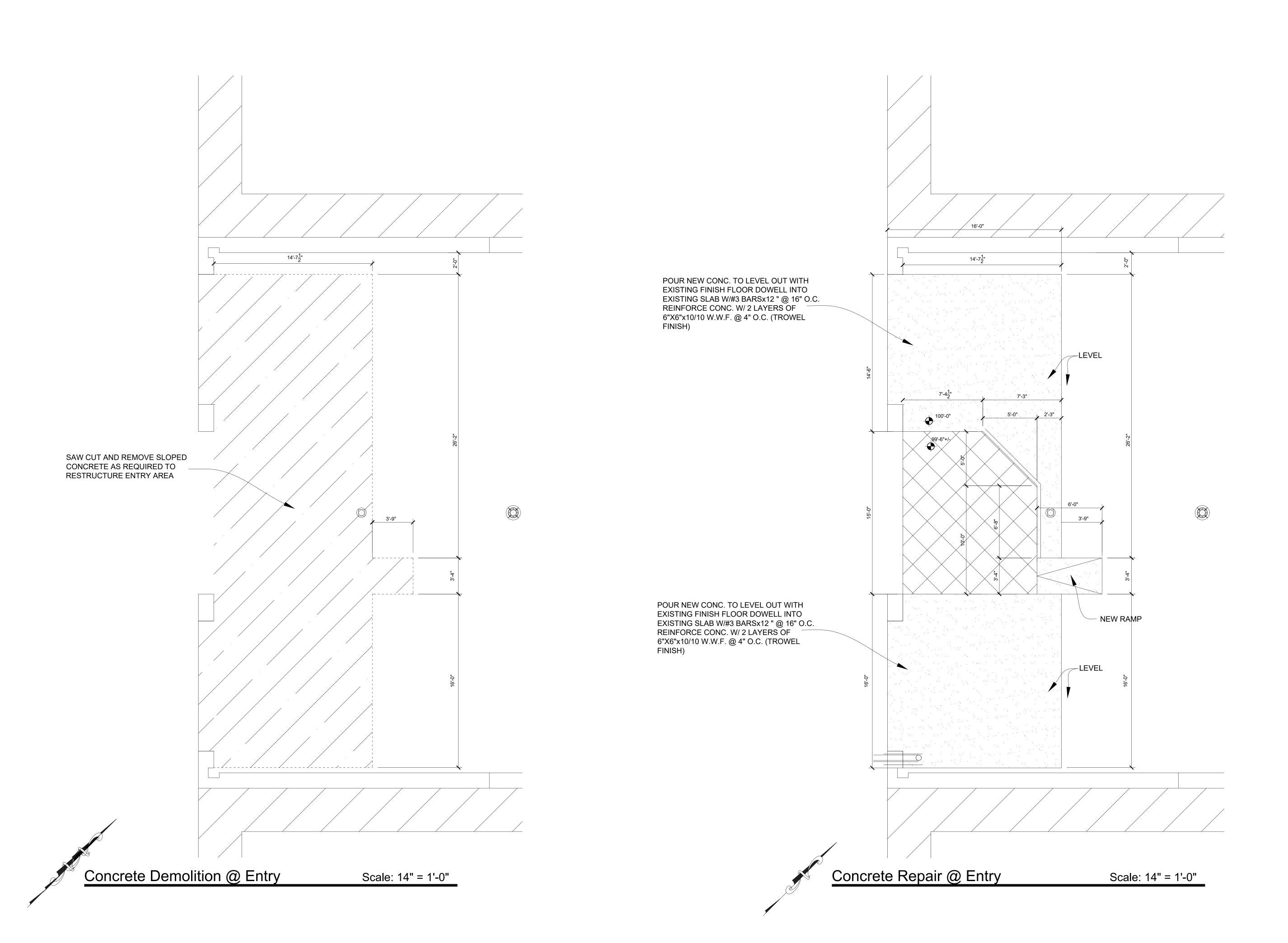
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Sheet Title: 1st Floor Demolition

Sheet No. 2 of 30





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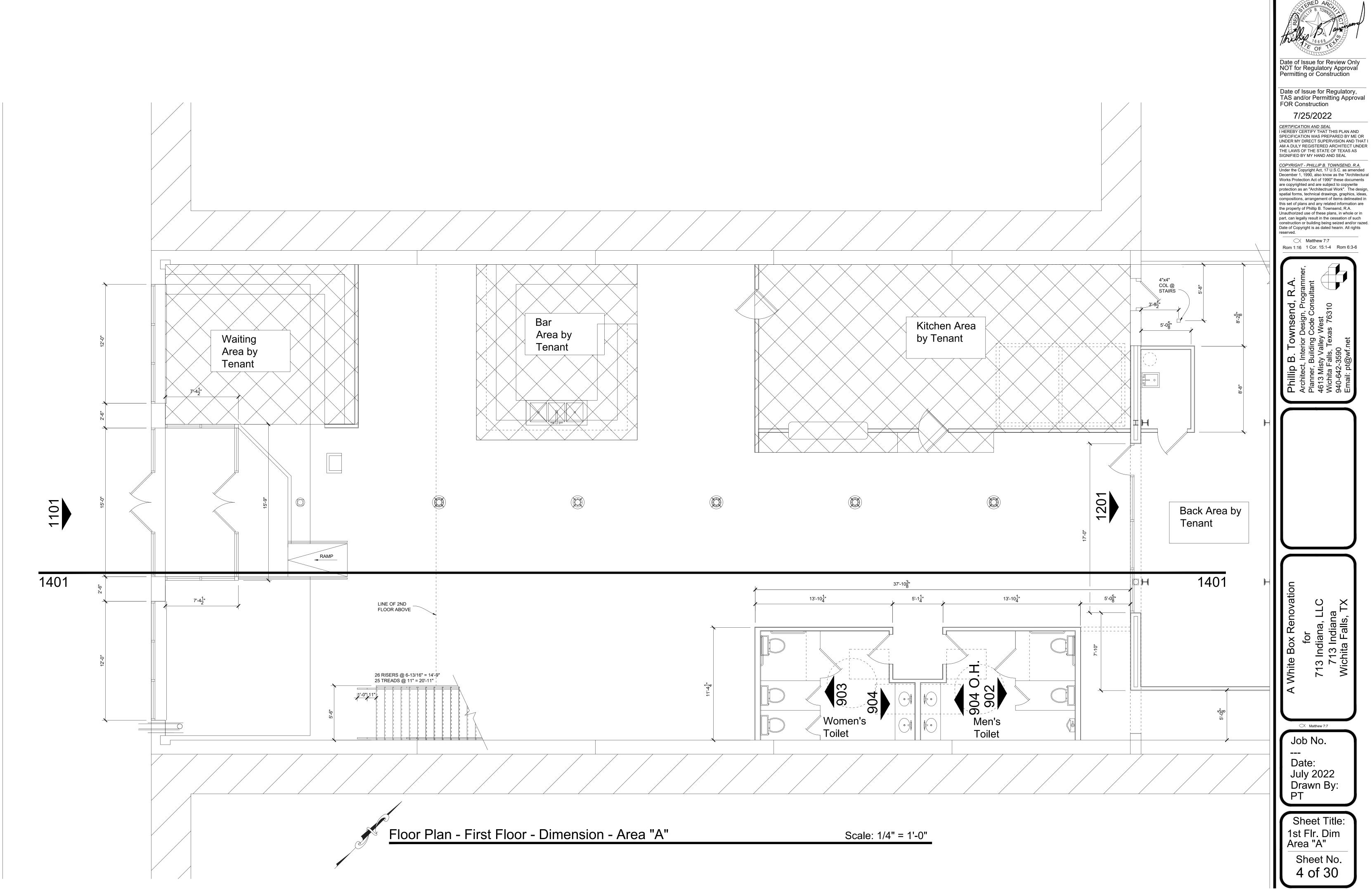
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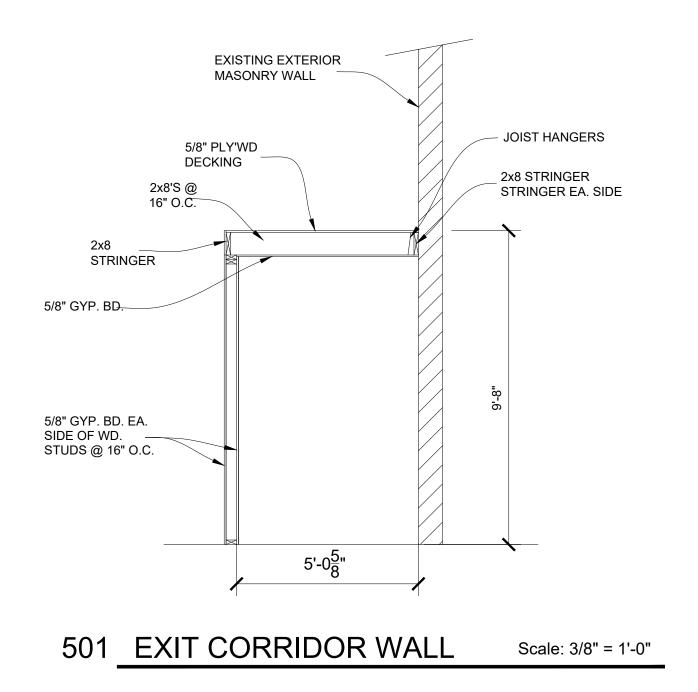
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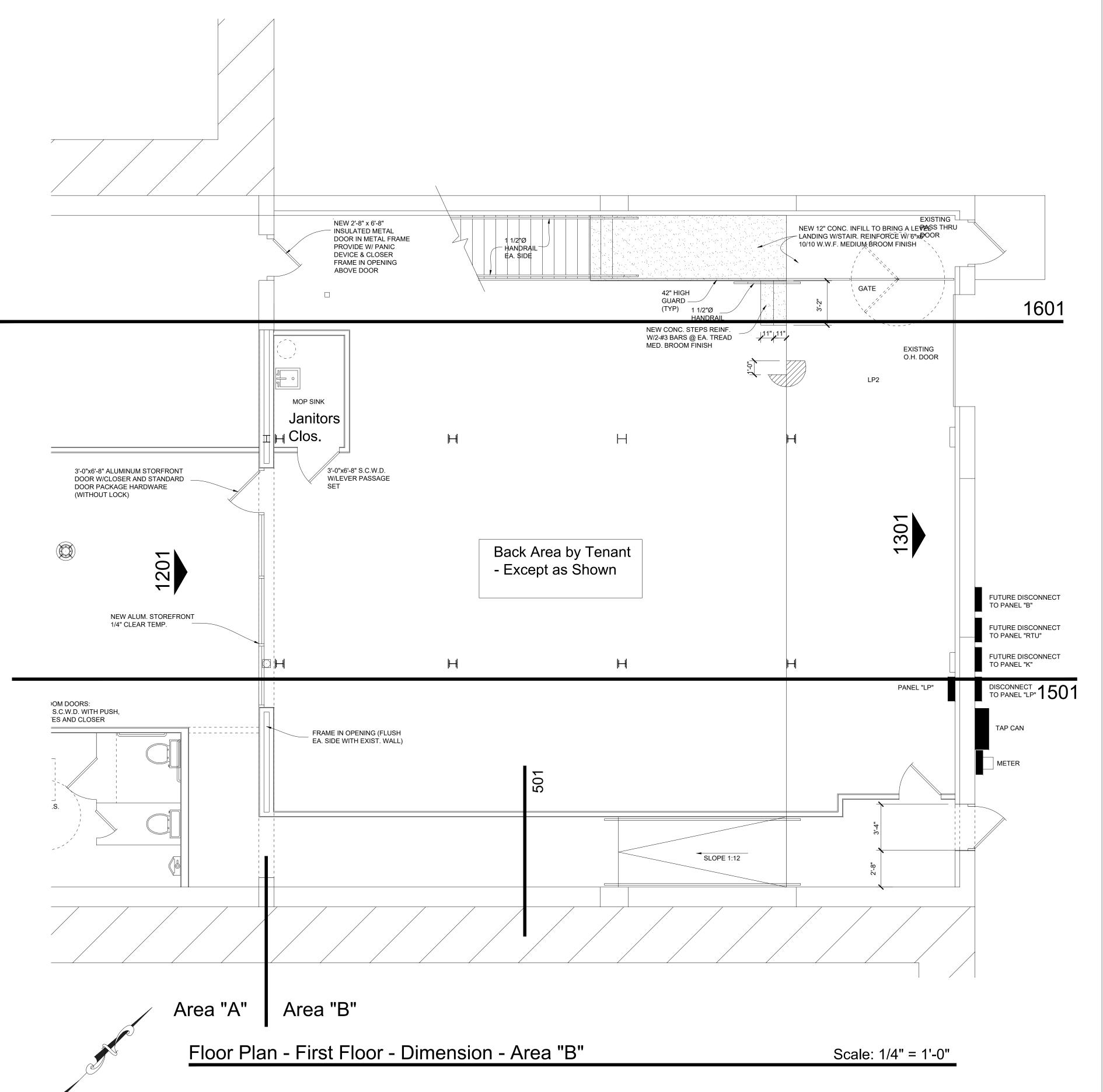
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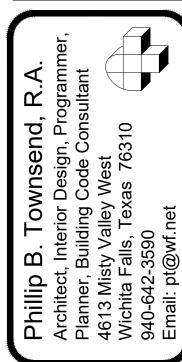
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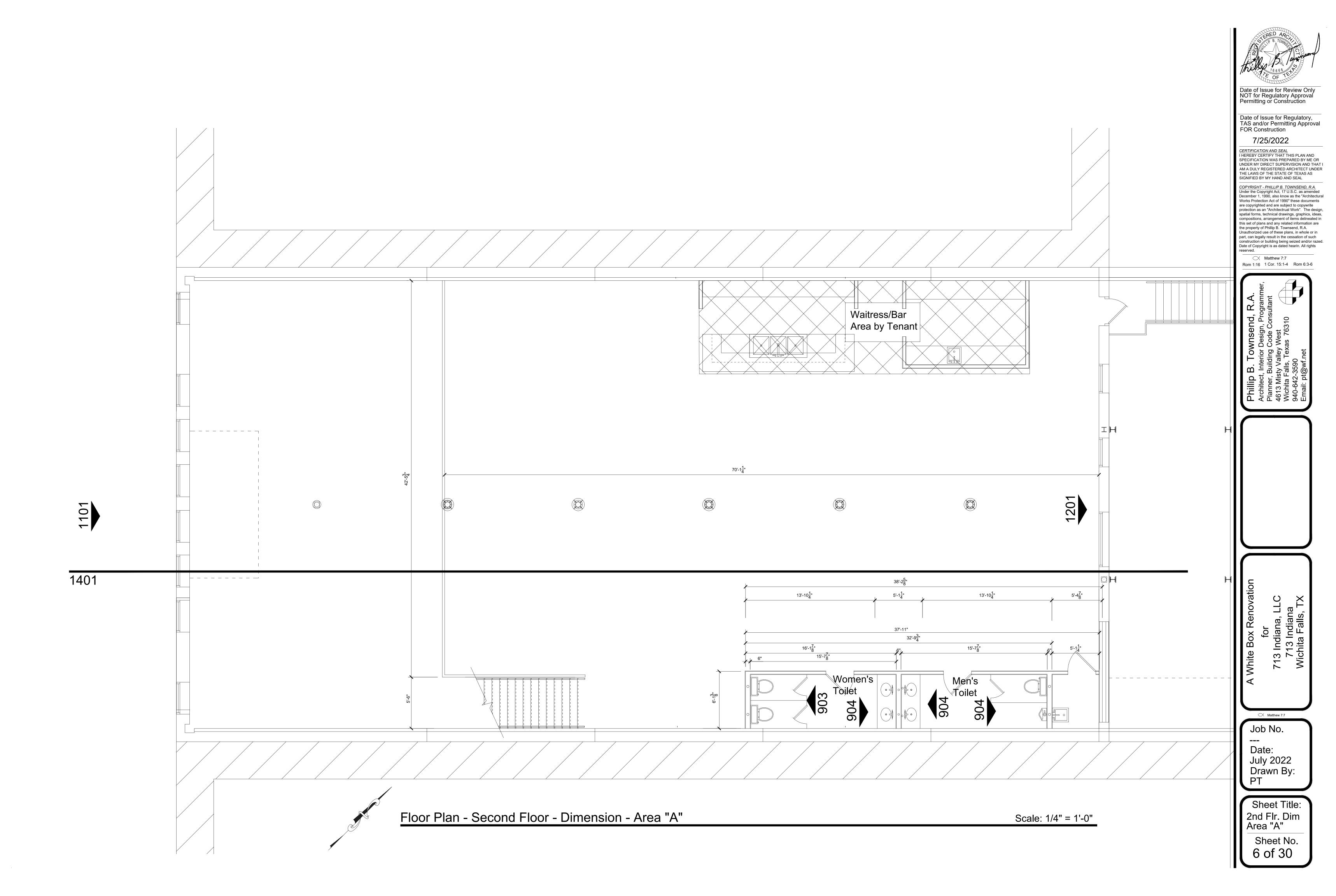
White Box Kenovation for 713 Indiana, LLC 713 Indiana

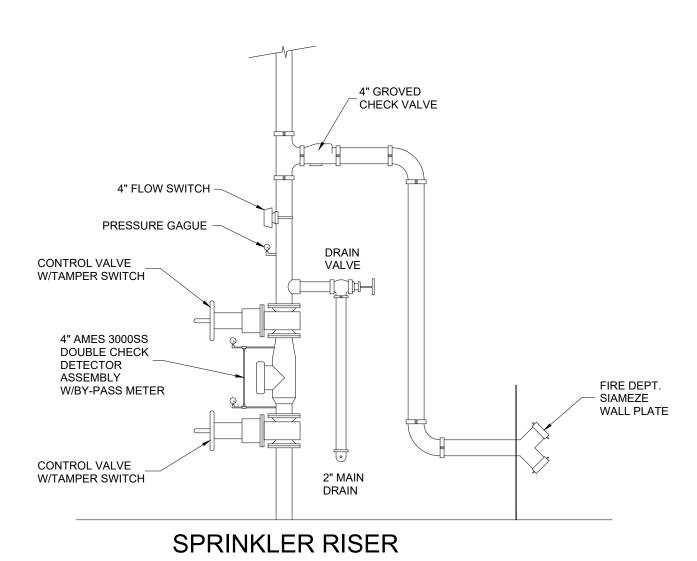
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Sheet No. 5 of 30





FIRE PROTECTION SYSTEM

BUILDING TO BE FULLY PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM)
DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE PERFORMED
BY A LICENSED SPRINKLER CONTRACTOR AND SHALL MEET THE REQUIREMENTS
OF NFPA 13. DETAILS MUST BE PROVIDED INDICATING THE EXTENT OF COVERAGE,
TYPE OF SYSTEM TO BE EMPLOYED AND THE AGENT TO BE USED. SHOP
DRAWINGS SHALL BE SUBMITTED FOR APPROVAL. DRAWINGS SHALL
INCLUDE BUT NOT BE LIMITED TO PIPE MATERIAL, SIZES, LENGTHS, WATER
SUPPLY SPECIFICATIONS AND HYDRAULIC CALCULATIONS, ALARMS AND SYSTEM...
SUPERVISION INFORMATION. THE AUTOMATIC FIRE SUPPRESSION SYSTEM FOR THIS
BUILDING SHALL BE CONNECTED TO AN APPROVED CENTRAL STATION, APPROVED
PROPRIETARY SYSTEM, REMOTE-STATION SYSTEM OR SUPERVISIORY SERVICE
IN ACCORDANCE WITH NFPA 72.
ALL HANGERS TO BE U.L. LISTED AND F.M. APPROVED
HANGER SPACING TO BE IN COMPLIANCE WITH NFPA #13
UPRIGHT SPRINKLER DEFLECTORS ARE NOT TO EXCEED 12" BELOW DECK LINE.
PRIOR TO STARTNG WORK, THIS CONTRACTOR SHALL NOTIFY G.C. IF SPRINKLER
HEAD LOCATIONS WILL CONFLICT W/ ELECTRICAL, HVAC OR PLUMBING WORK.

LEGEND

WALL MOUNTED EMERGENCY EGRESS LIGHT ON 90
BATTERY BACKUP (MTG. HT. MIN. 7'-0" +/- A.F.F.)
EXTERIOR LIGHTS SHALL BE WATER PROOF

WALL MOUNTED EXIT LIGHT W/ EMEG. EGRESS LIGHT ON 90
BATTERY BACKUP (DIRECTIONAL ARROW WHERE INDICATED)
MTD. HT. MIN. 7'-0" =/- A.F.F.)

SURFACE MTD. EXIT LIGHT ON 90 BATTERY BACKUP

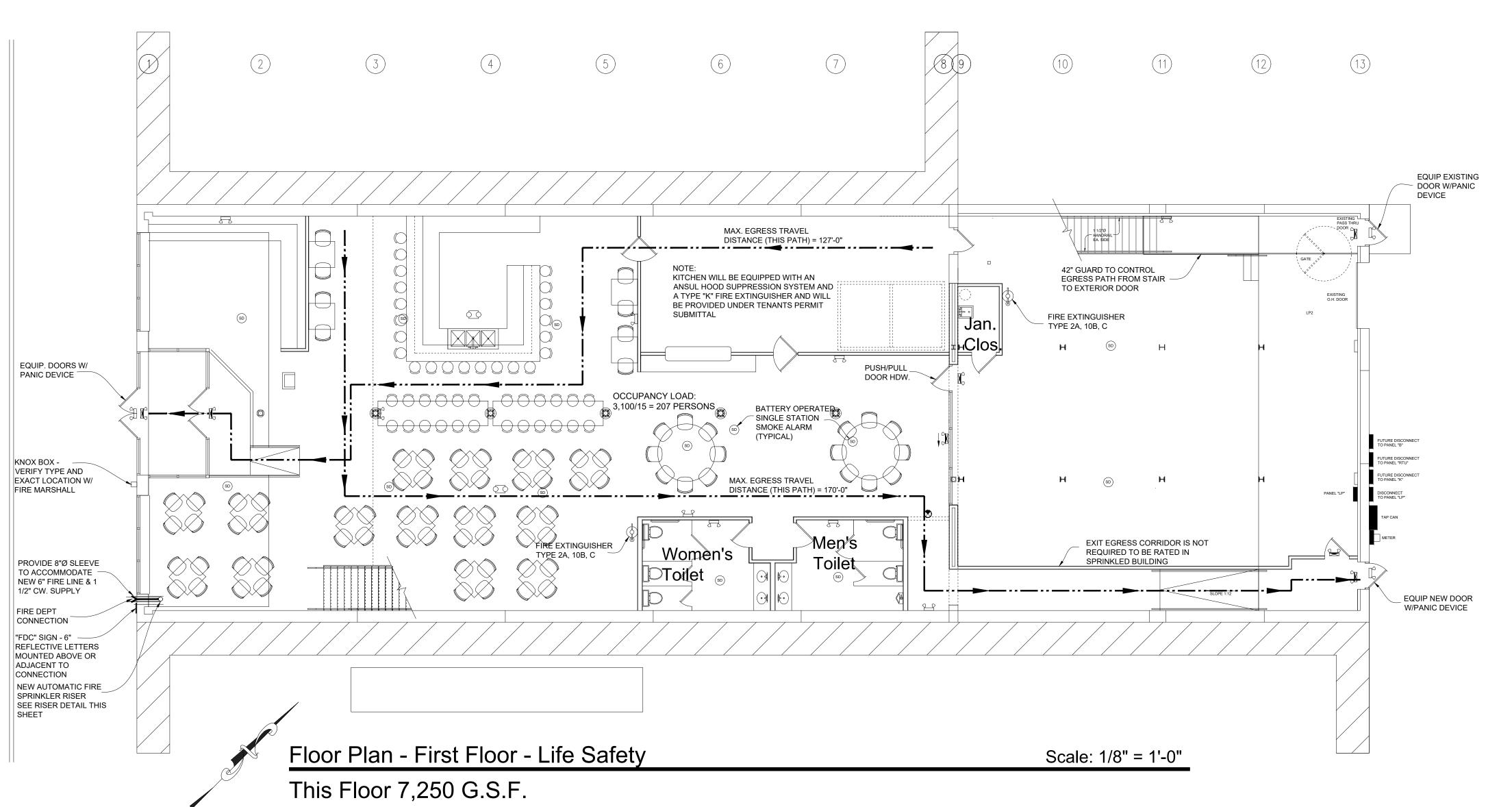
SURFACE MTD. EGRESS LIGHT ON 90 BATTERY BACKUP

(SD) BATTERY OPERATED, SINGLE STATION SMOKE ALARM

EACH AIR HANDLER UNIT (RTU) SHALL BE EQUIPPED WITH A SMOKE DETECTOR IN THE SUPPLY AIR DUCT THAT WILL SHUT DOWN THE UNIT UPON DETECTION OF SMOKE

NOTE: THIS SHALL BE PROVIDE AND INCORPORATED UNDER TENANT FINISH OUT

FIRE EXTINGUISHERS STANDARD -TYPE 2A, 10B, C (MAX DISTANCE 75')
KITCHEN - TYPE "K" (TO BE PROVIDED UNDER TENANT FINISH OUT)





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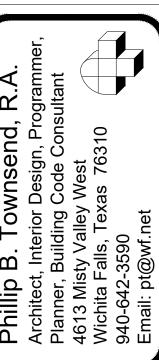
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for 713 Indiana, LLC 713 Indiana Wichita Falls, TX

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Sheet Title: 1st Floor Life Safety

LEGEND

WALL MOUNTED EMERGENCY EGRESS LIGHT ON 90
BATTERY BACKUP (MTG. HT. MIN. 7'-0" +/- A.F.F.)
EXTERIOR LIGHTS SHALL BE WATER PROOF

WALL MOUNTED EXIT LIGHT W/ EMEG. EGRESS LIGHT ON 90 BATTERY BACKUP (DIRECTIONAL ARROW WHERE INDICATED) MTD. HT. MIN. 7'-0" =/- A.F.F.)

SURFACE MTD. EGRESS LIGHT ON 90 BATTERY BACKUP

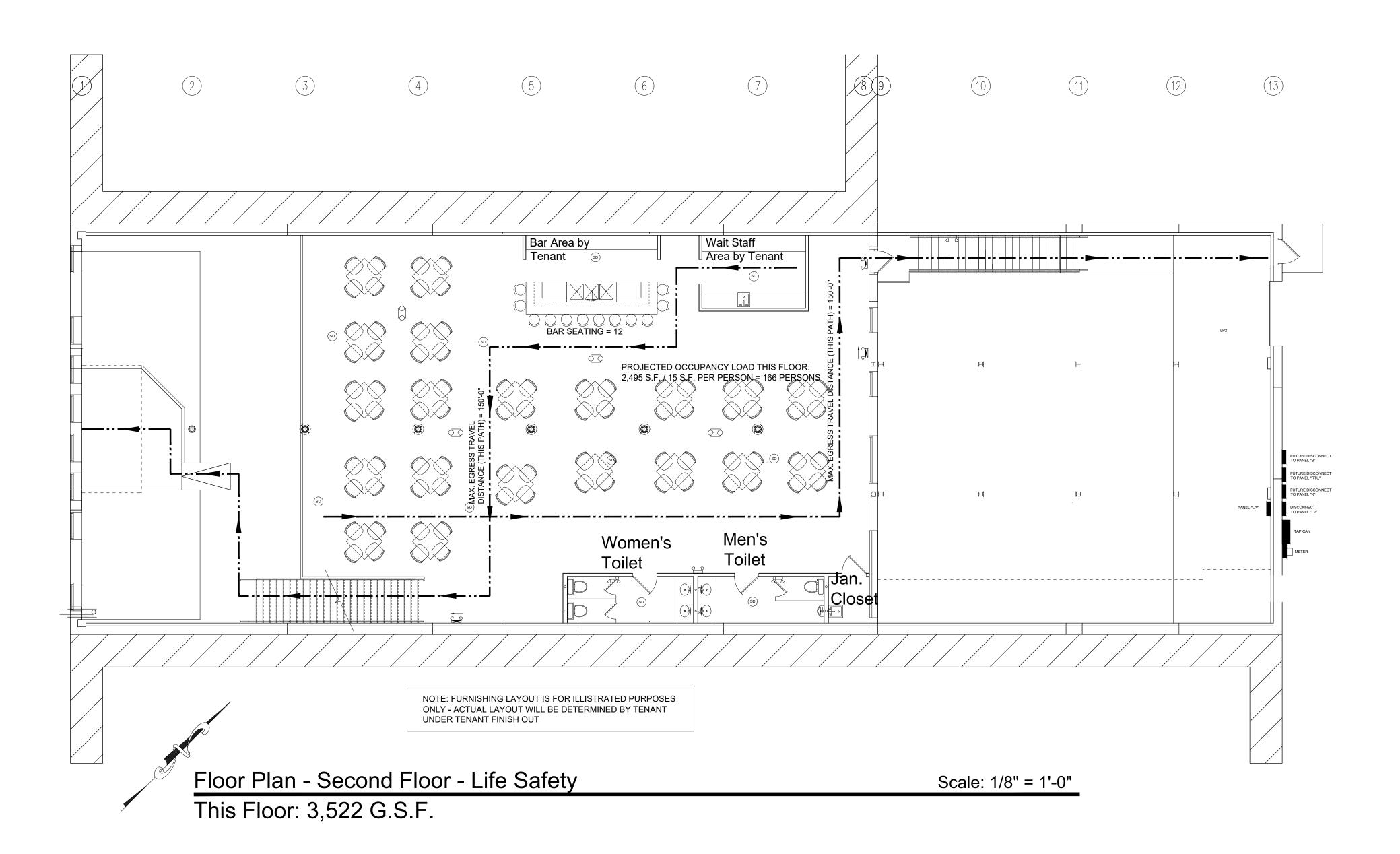
SURFACE MTD. EXIT LIGHT ON 90 BATTERY BACKUP

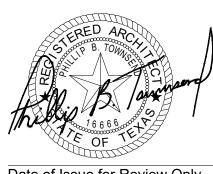
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EACH AIR HANDLER UNIT (RTU) SHALL BE EQUIPPED WITH A SMOKE DETECTOR IN THE SUPPLY AIR DUCT THAT WILL SHUT DOWN THE UNIT UPON DETECTION OF SMOKE NOTE: THIS SHALL BE PROVIDE AND INCORPORATED

UNDER TENANT FINISH OUT

FIRE EXTINGUISHERS STANDARD -TYPE 2A, 10B, C (MAX DISTANCE 75')
KITCHEN - TYPE "K" (TO BE PROVIDED UNDER TENANT FINISH OUT)





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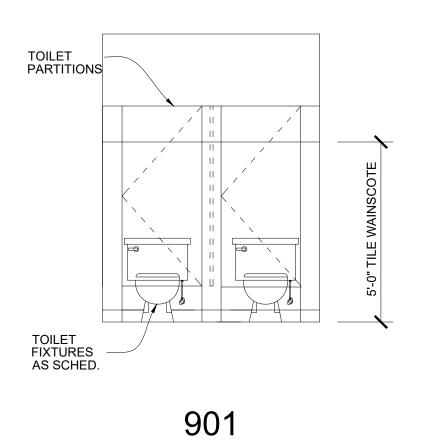
hitect, Interior Design, Programmer, nner, Building Code Consultant 3 Misty Valley West thita Falls, Texas 76310

for 713 Indiana, LLC 713 Indiana

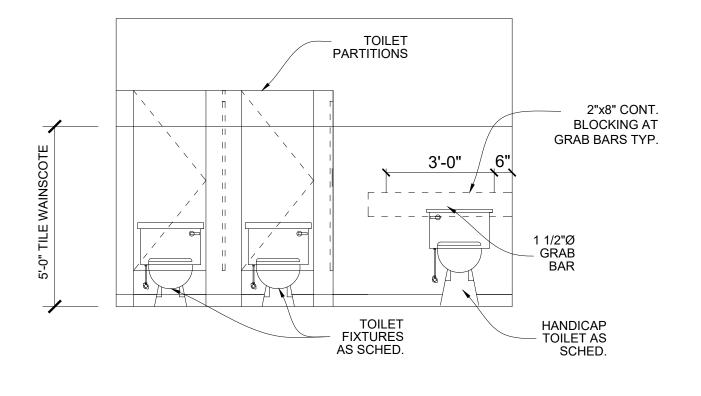
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TOILET -PARTITIONS 2"x8" CONT. **BLOCKING AT** GRAB BARS TYP. 1 1/2"Ø GRAB – BAR TOILET FIXTURES AS SCHED. HANDICAP TOILET AS -SCHED. 902

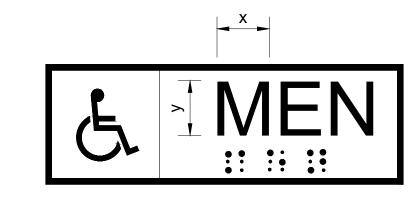


903

TAS SECTION 4.30.6 - MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3)

- A. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.
- B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.
- C. Mounting height shall be 60" above the finished floor to the centerline of the sign.
- D. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.





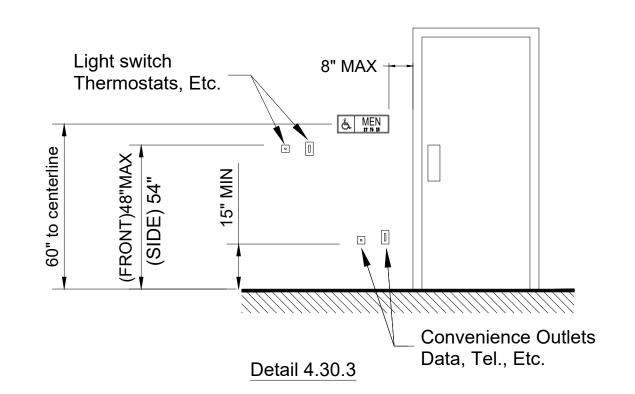


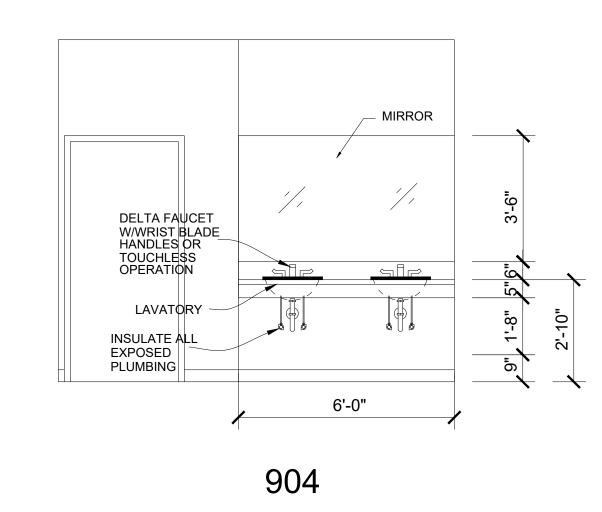
Letter & numbers on signs shall have a width to height ratio of between 3:5 & 1:1 and a stroke - width to height ratio between 1:5 & 1:10. Letters and numbers shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied with grade 2 Braille, rasied characters shall be at least 5/8" high, but no higher than 2".

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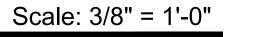
Detail 4.30.1

Detail 4.30.2





Interior Elevations @ Toilet Rooms





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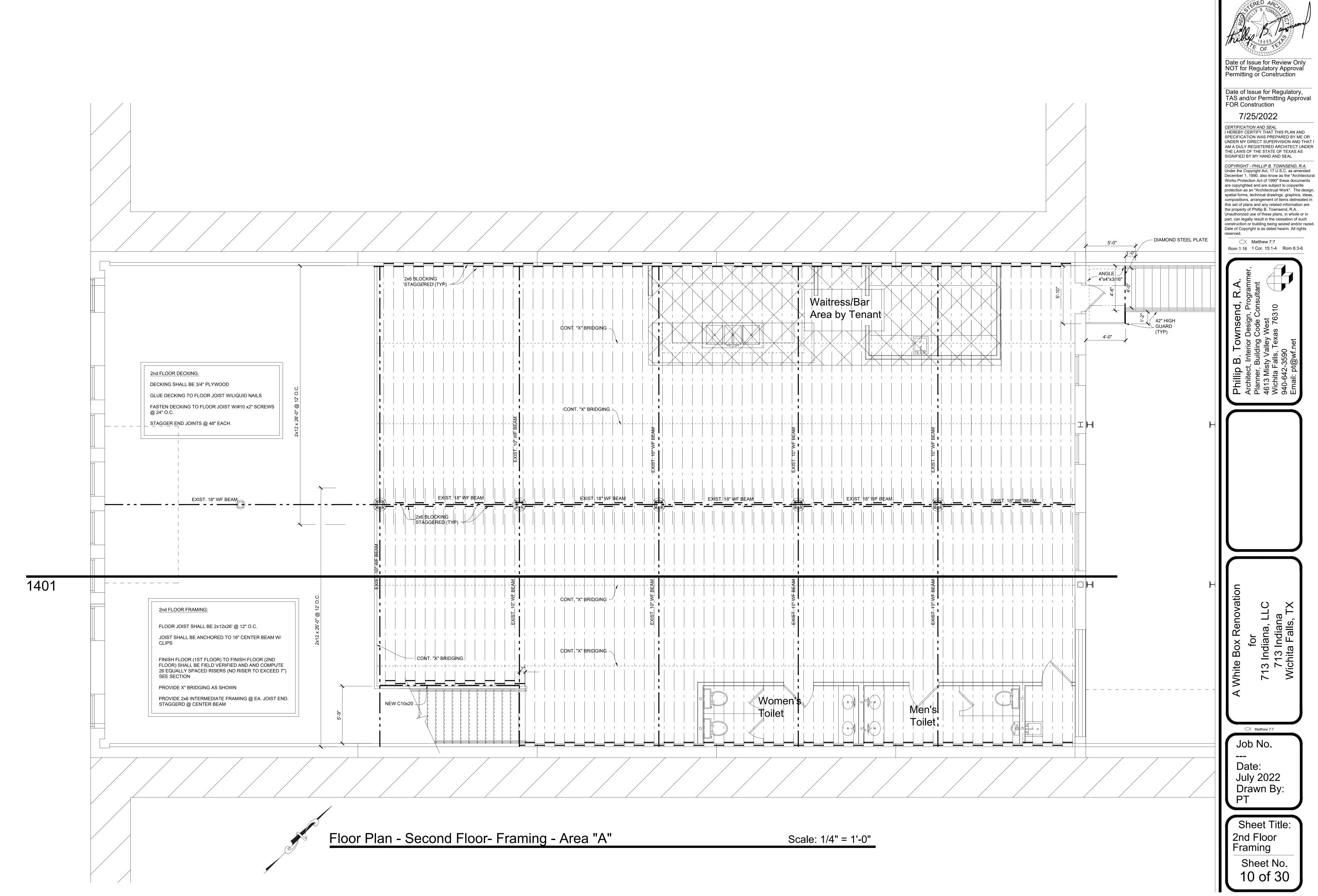
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Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

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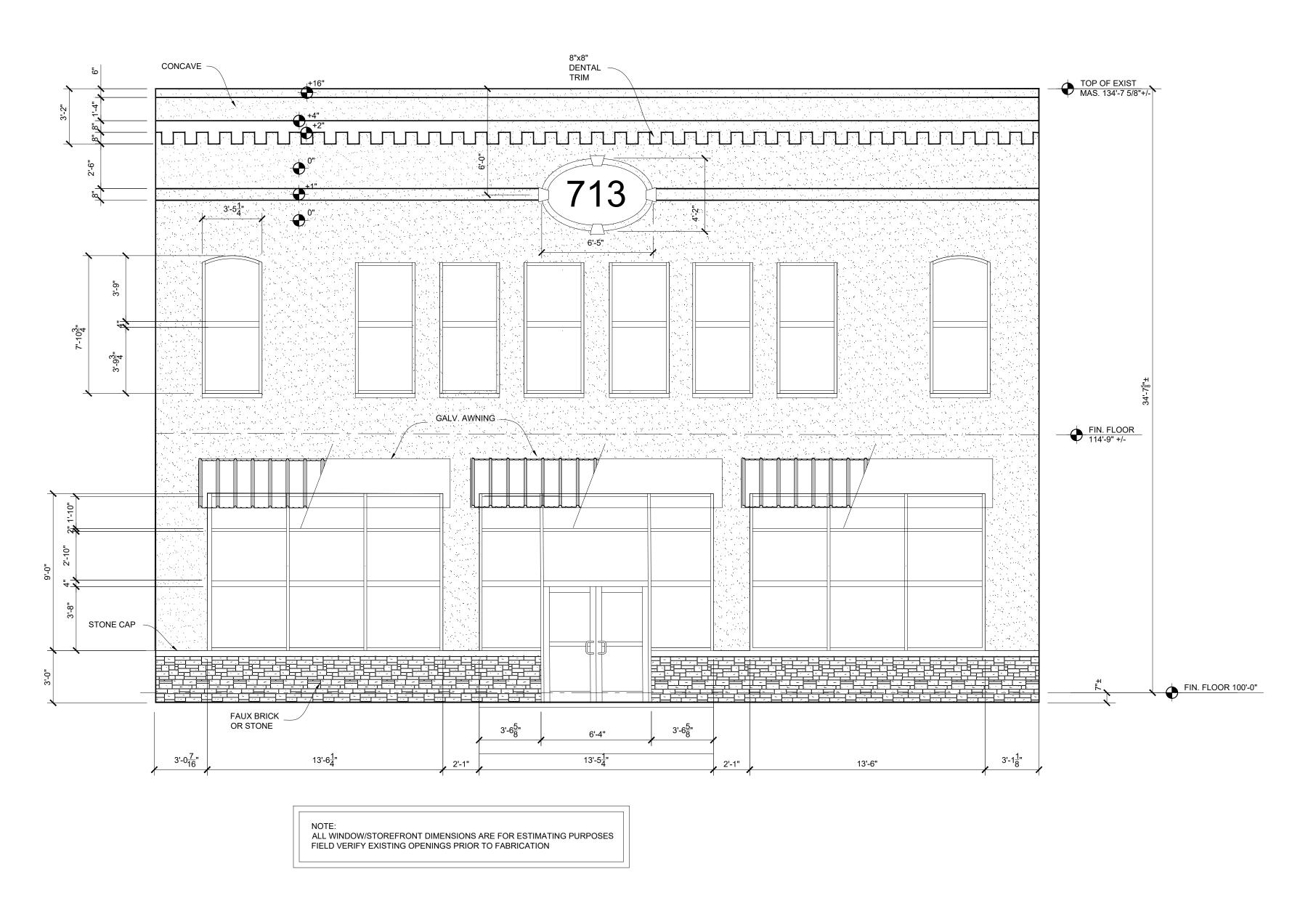
Sheet Title: Interior Elevations

> Sheet No. 9 of 30



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1101 West (Front) Exterior Elevation

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Matthew 7:7
Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

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for 713 Indiana, LLC 713 Indiana

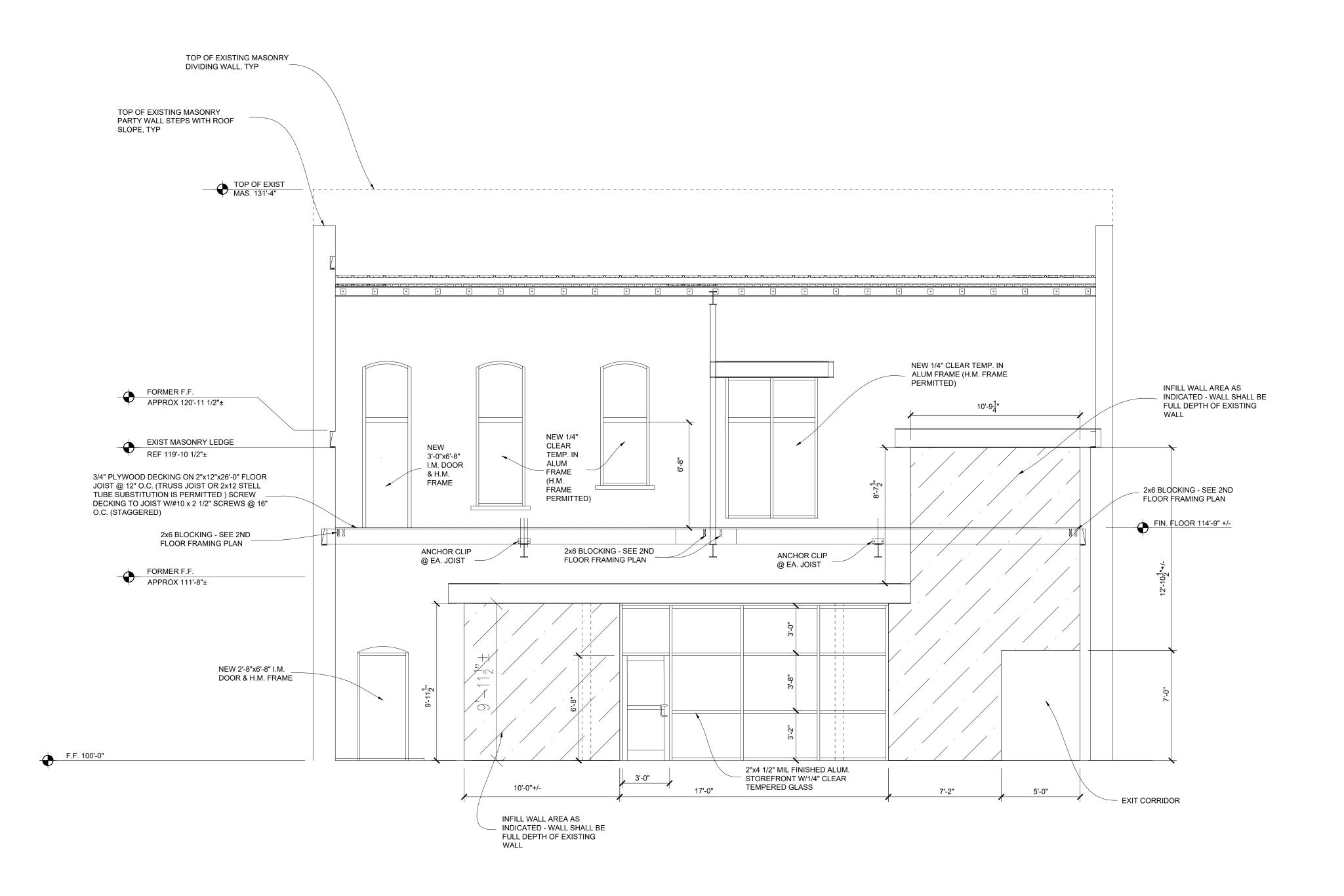
○ Matthew 7

Joh N

Scale: 1/4" = 1'-0"

---Date: July 202 Drawn E

Sheet Title: West Elev. @ Front



1201 West Elevation @ Middle Wall

Scale: 1/4" = 1'-0"



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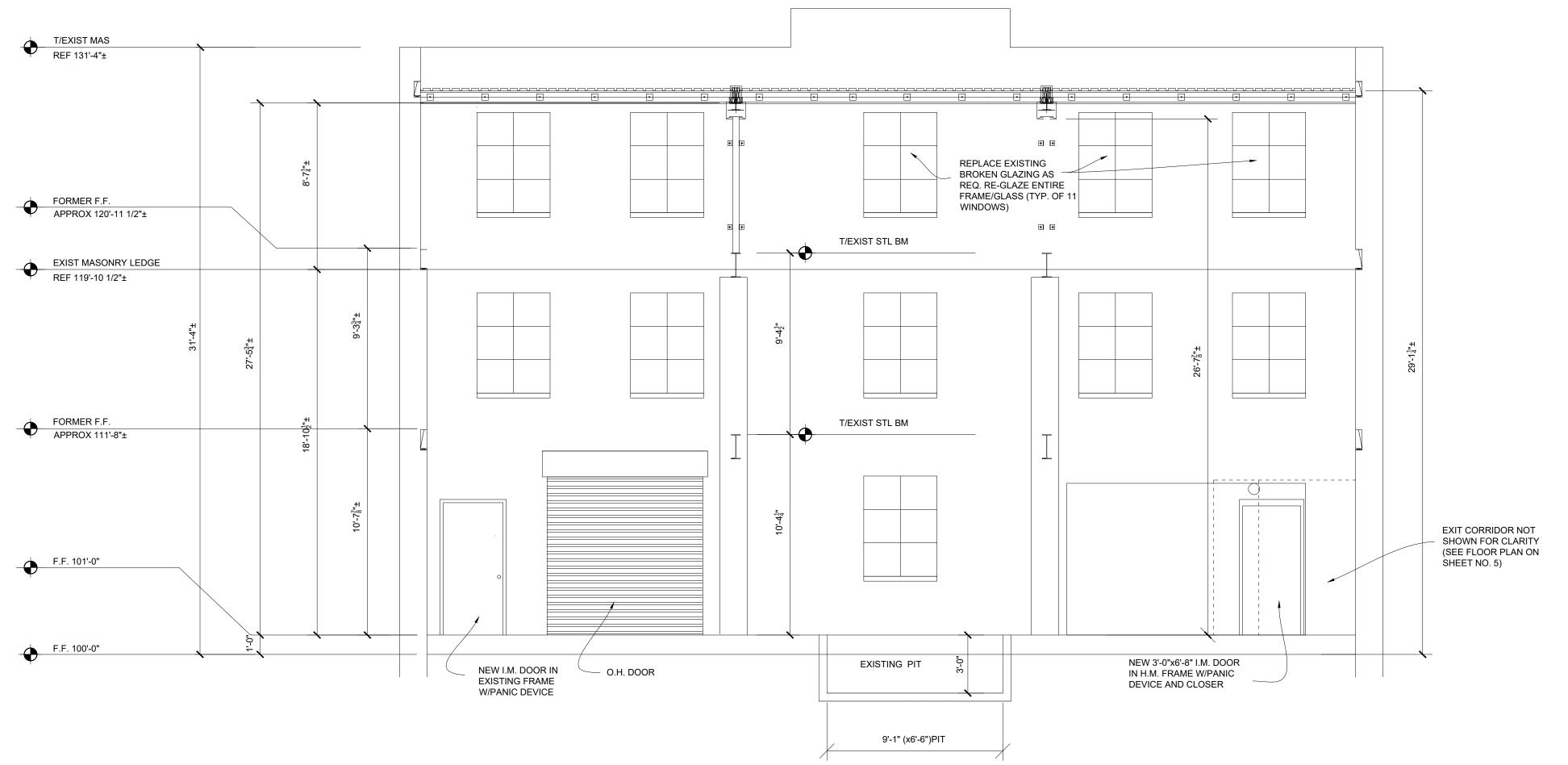
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Sheet Title: West Elev. @ Middle Wall

Sheet No. 12 of 30



1301 West Elevation of Rear Wall @ Alley

Scale: 1/4" = 1'-0"



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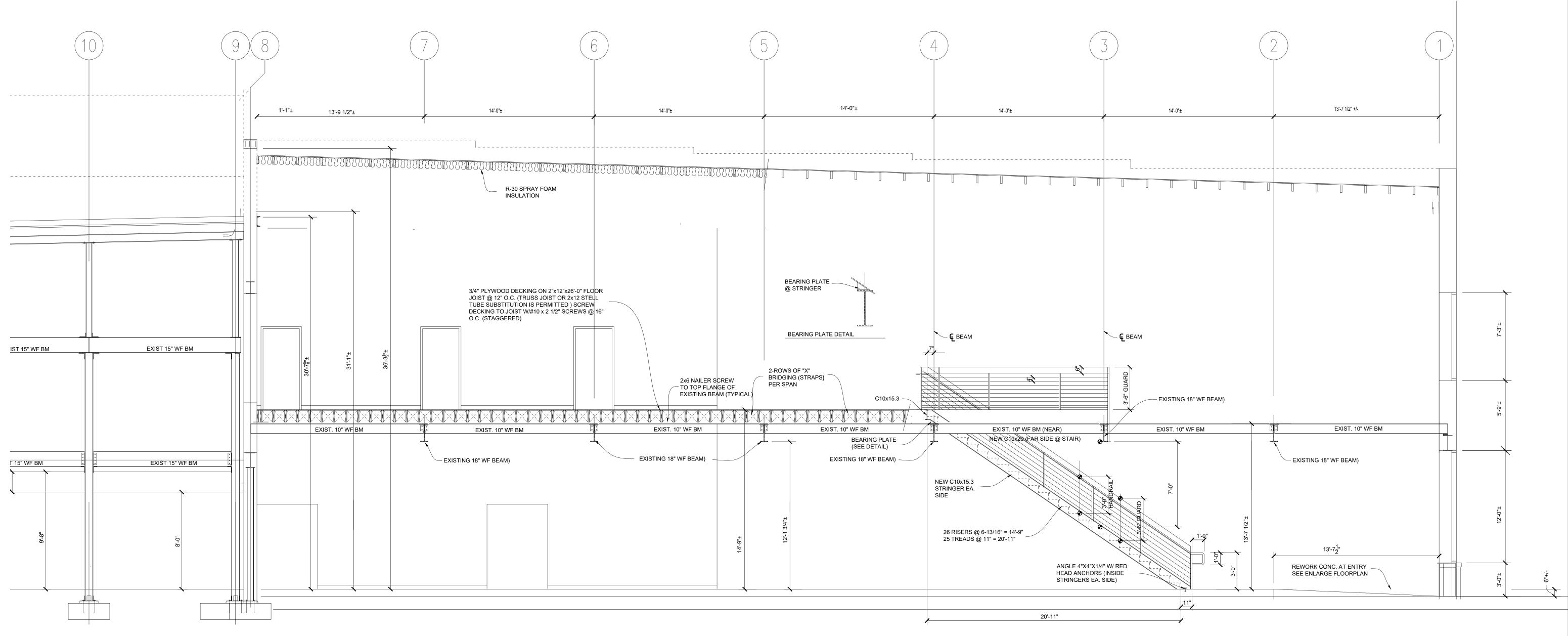
White Box Renovatior for 713 Indiana, LLC

Matthew 7:7

Job No. ---

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Drawn By:

Sheet Title: West Elev @ Rear Wall



East (Middle Wall)

1401 Building Section (West to East Looking South)

Scale: 1/4" = 1'-0"



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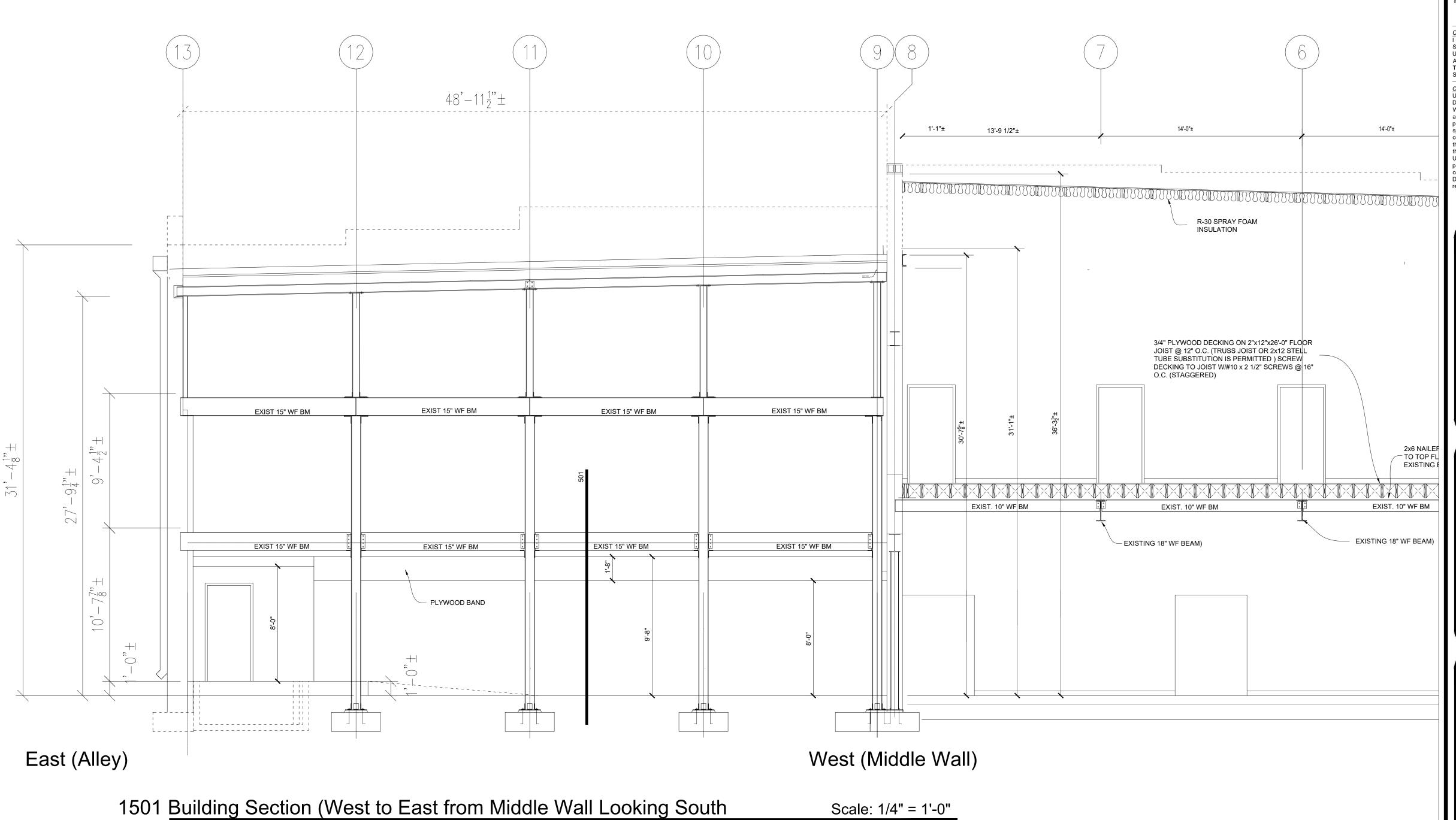
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A White Box Kenovation for 713 Indiana, LLC 713 Indiana

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Job No.
--Date:
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Sheet Title: Building Section



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t, Interior Design, Programmer,
Building Code Consultant
sty Valley West
Falls, Texas 76310
t@wf.net

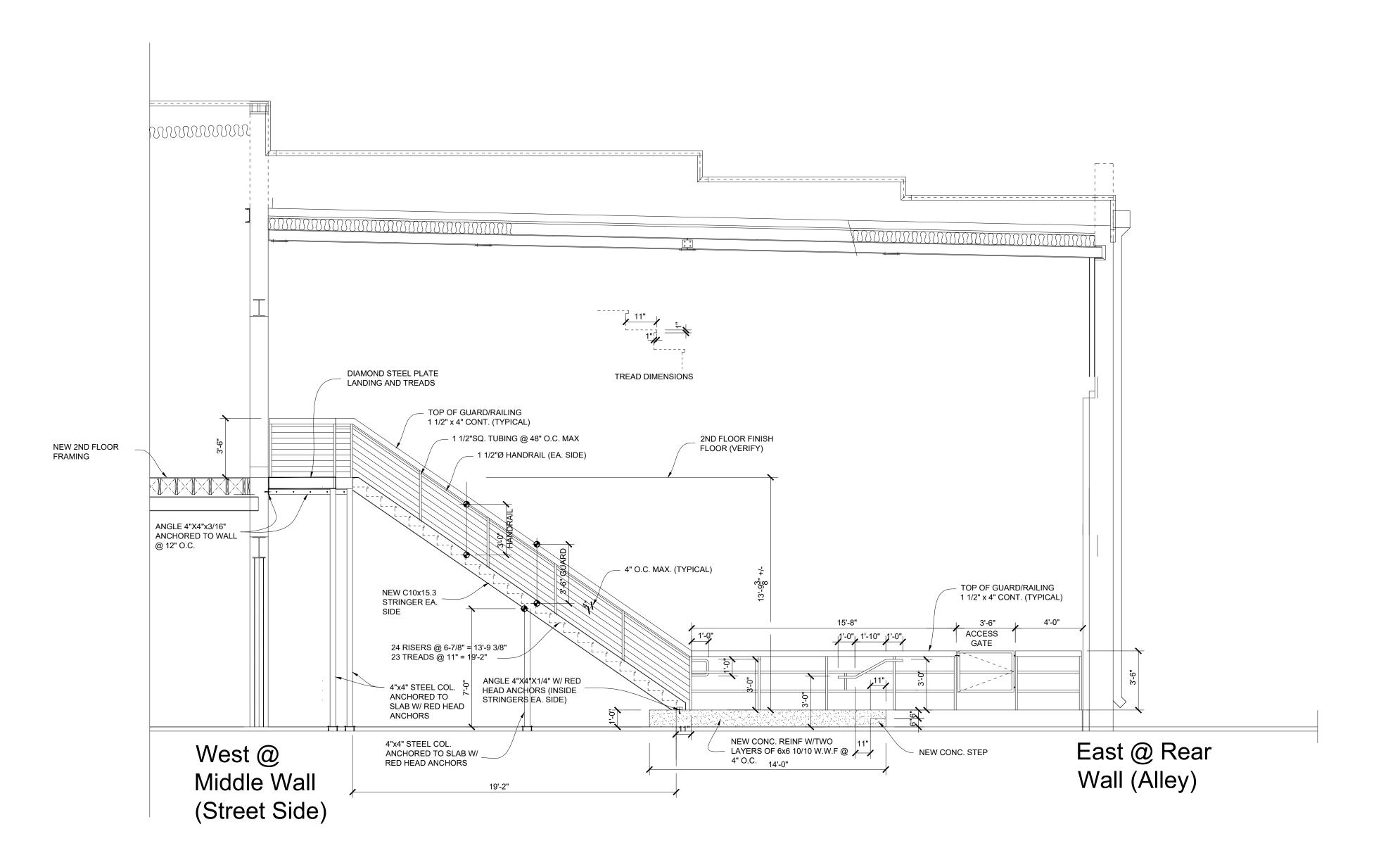
for Indiana, LLC 713 Indiana chita Falls, TX

Matthew 7

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PT

Sheet Title: Building Section

Sheet No. 15 of 30



Scale: 1/4" = 1'-0"

1601 Building Section (West to East @ Middle Wall Looking North)

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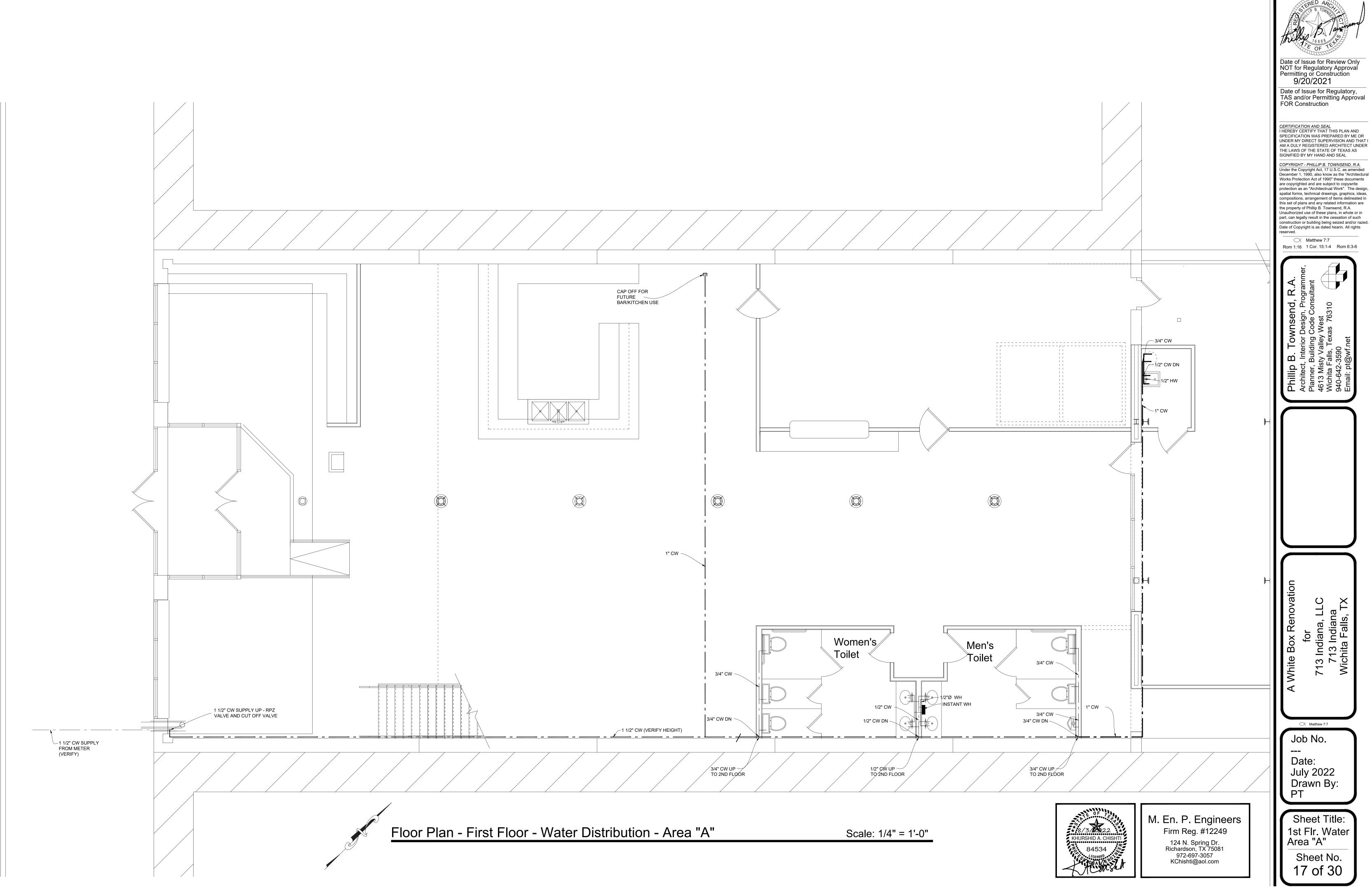
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Matthew 7

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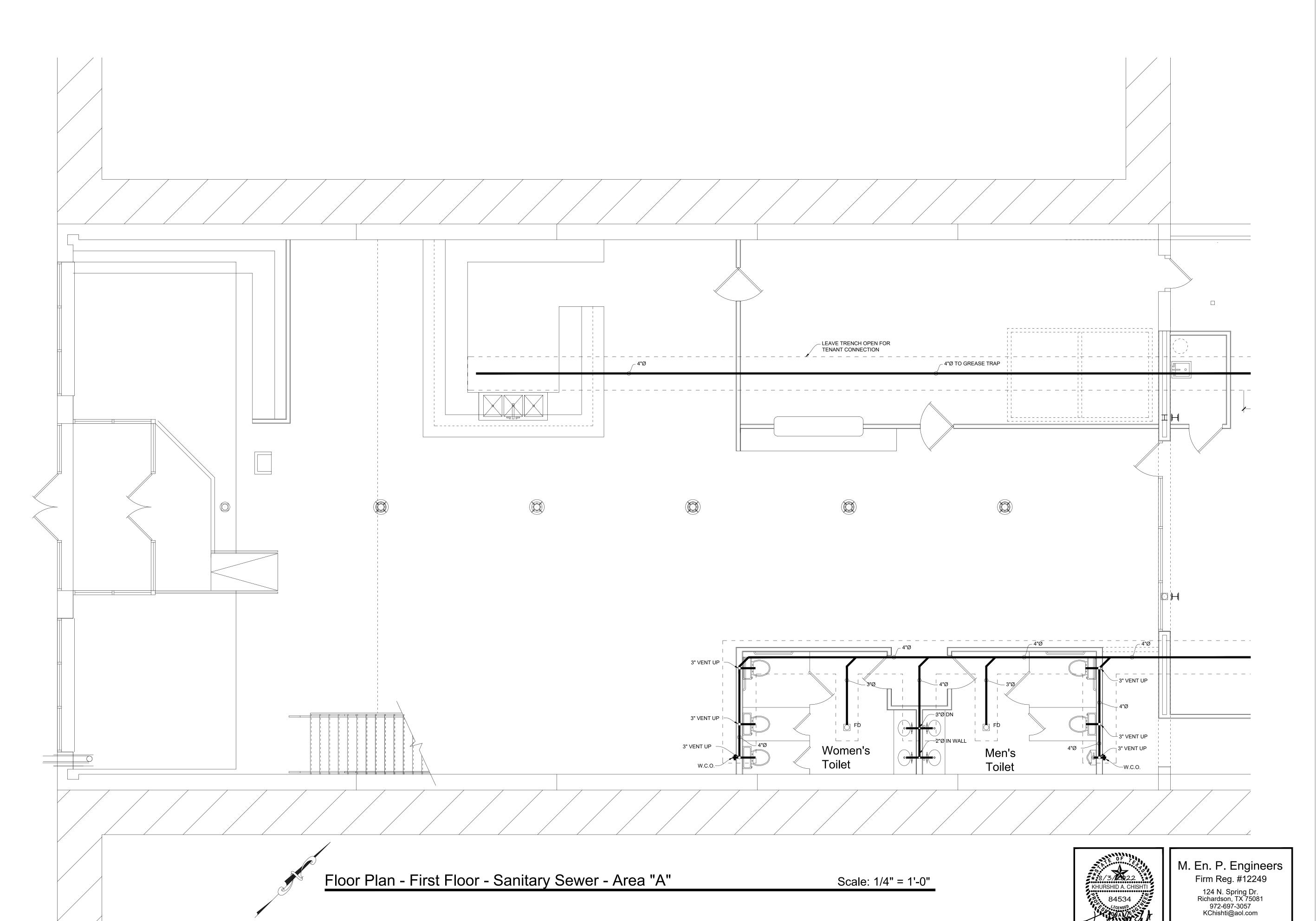
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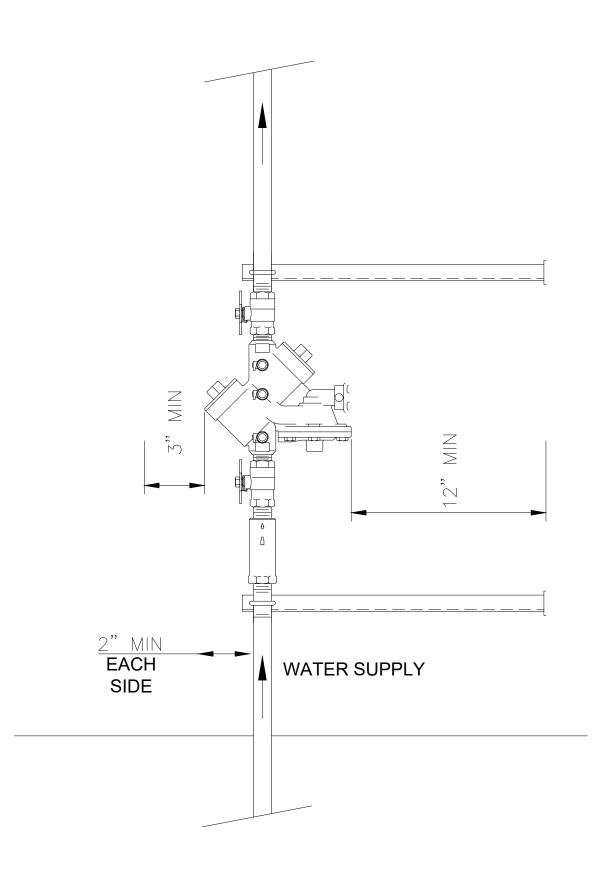
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Sheet Title: 1st. Flr. Sewer Area "A"



RPZ Valve Detail

GENERAL NOTE

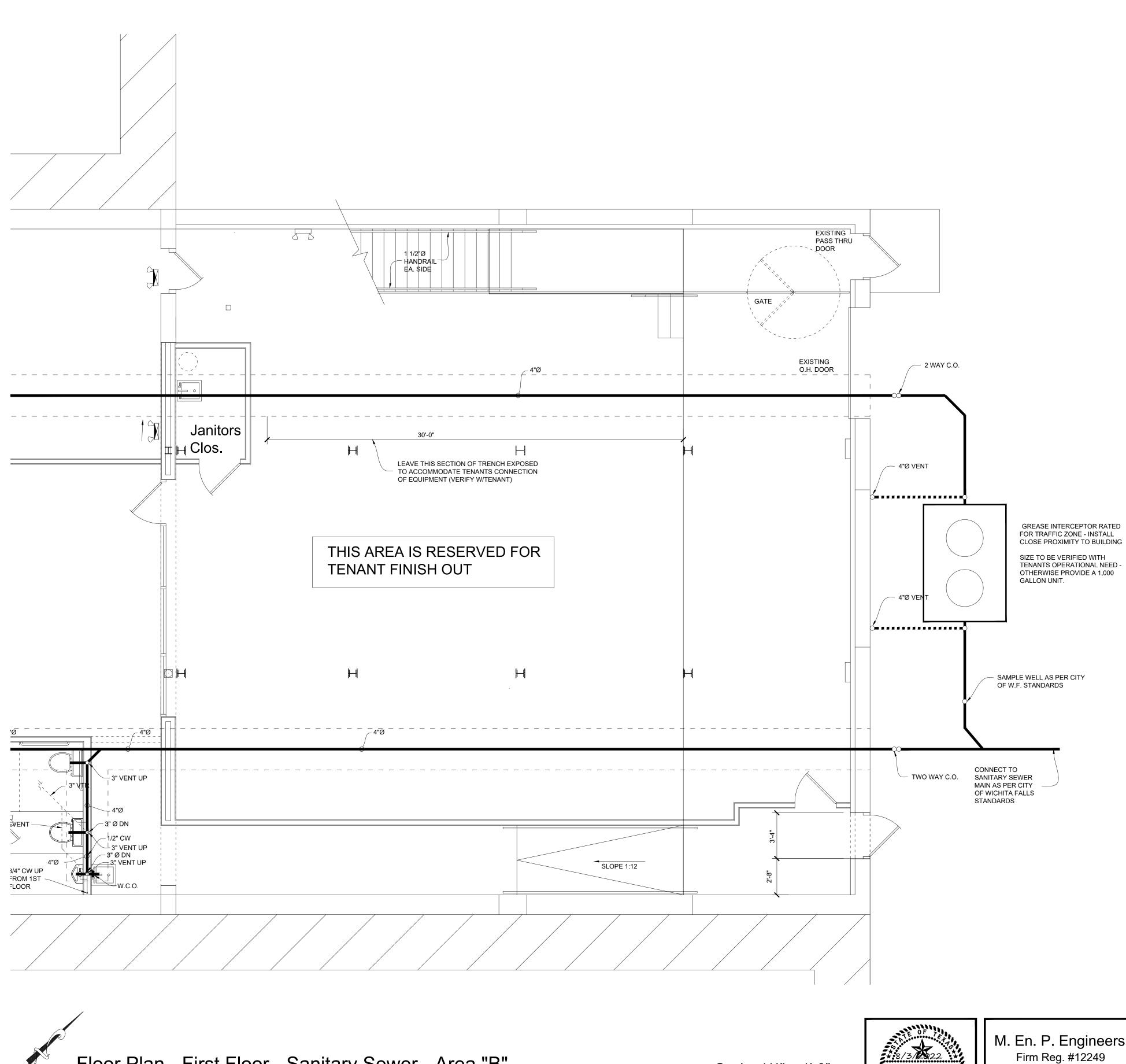
- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WICHITA FALLS STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION, LATEST EDITION.
- 2. THE ASSEMBLY SHALL MEET THE REQUIREMENTS OF ASSE 1013, REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER ASSEMBLY(BPA); IN A SIZE TO MATCH THAT OF THE REQUIRED METER AND/OR SERVICE PIPING, AND SHALL CONFORM TO ALL CURRENT REQUIREMENTS OF THE UNIVERSITY OF SOUTHERN CALIFORNIA, FOUNDATION FOR CROSS-CONNECTION CONTROL & HYDRAULIC RESEARCH (USC-FCCCHR).
- 3. ANY VARIATIONS FROM THIS DETAIL MUST BE APPROVED BY WICHITA FALLS WATER UTILITIES.
- 4. IF THIS BACKFLOW ASSEMBLY IS FOR CONTAINMENT, OR PREMISE ISOLATION, OWNER ACKNOWLEDGES THAT IT'S PRESENCE ON THE PROPERTY DOES NOT DIMINISH, MITIGATE OR REMOVE OWNER'S OBLIGATION TO SATISFY THE ISOLATION OR POINT OF USE REQUIREMENTS LAID OUT IN TITLE 30, CHAPTER 290 OF THE ADMINISTRATIVE CODE AND OR OTHER RELEVANT GUIDELINES REQUIRED BY THE STATE OF TEXAS OR THE CITY OF WICHITA FALLS.
- 5. IT IS THE RESPONSIBILITY OF ANY PERSON WHO OWNS OR CONTROLS PROPERTY TO ELIMINATE THE POSSIBILITY OF THERMAL EXPANSION IF A CLOSED SYSTEM HAS BEEN CREATED BY THE INSTALLATION OF A BACKFLOW ASSEMBLY.

LOCATION:

- 6. THE ENCLOSURE SHALL BE LOCATED ON THE OWNER'S PROPERTY IN ACCORDANCE WITH DETAIL BF-H OR DETAIL BF-I IN A LOCATION ACCESSIBLE TO CITY PERSONNEL FOR INSPECTION.
- 7. THERE SHALL BE NO TAPS, PIPE BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OF OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS COA REQUIRED BPA.

INSTALLATION:

- 1. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN CITY OF WICHITA FALLS STANDARDS AND SPECIFICATIONS.
- 2. ISOLATION VALVES ARE SPECIFIC TO EACH APPROVED BPA AND NO SUBSTITUTION OF ISOLATION VALVES ARE PERMITTED.
- SUPPORT FOR ASSEMBLY SHALL BE DESIGNED BY OWNER SUCH THAT ASSEMBLY WEIGHT DOES NOT DESTABILIZE STRUCTURAL INTEGRITY AND SHALL NOT BLOCK RELIEF VALVE ON DRAIN PORT.
 TESTING
- 4. EACH REQUIRED BACKFLOW PREVENTER MUST BE TESTED BY A CITY OF WICHITA FALLS -APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
- 5. ALL RPZ-BFP ASSEMBLIES SHALL BE TESTED AT TIME OF INSTALLATION AND AT LEAST ANNUALLY THEREAFTER. A COPY OF ALL TEST AND MAINTENANCE REPORTS MUST BE SUBMITTED TO THE CITY OF WICHITA FALLS WATER DEPARTMENT.
- MAINTENANCE6. MAINTENANCE AND UPKEEP OF ALL BACKFLOW PREVENTION EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.



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Matthew 7:7

Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6



for 713 Indiana

Matthew 7:7

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Sheet Title:

1st. Flr. Sewer Area "B"

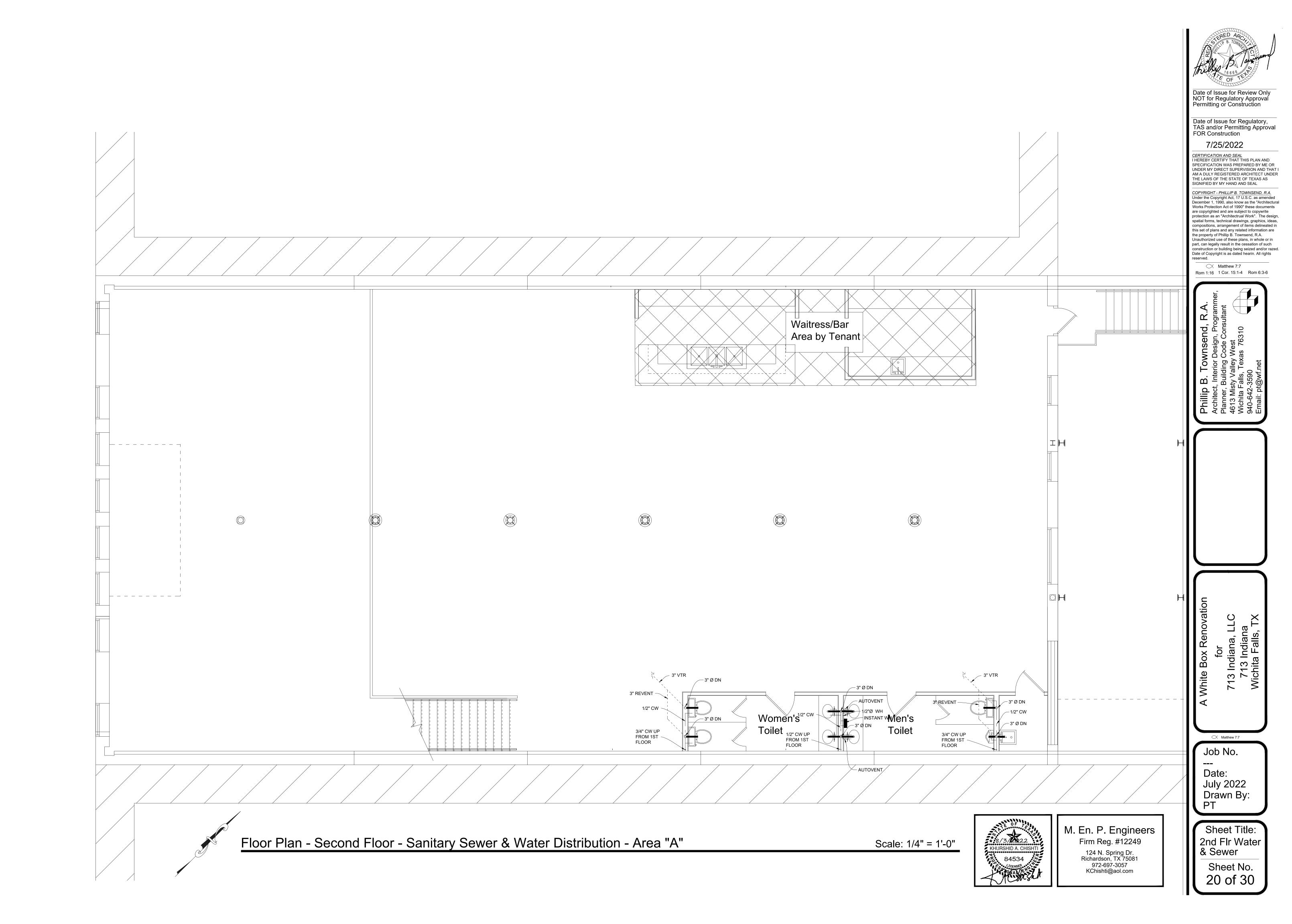
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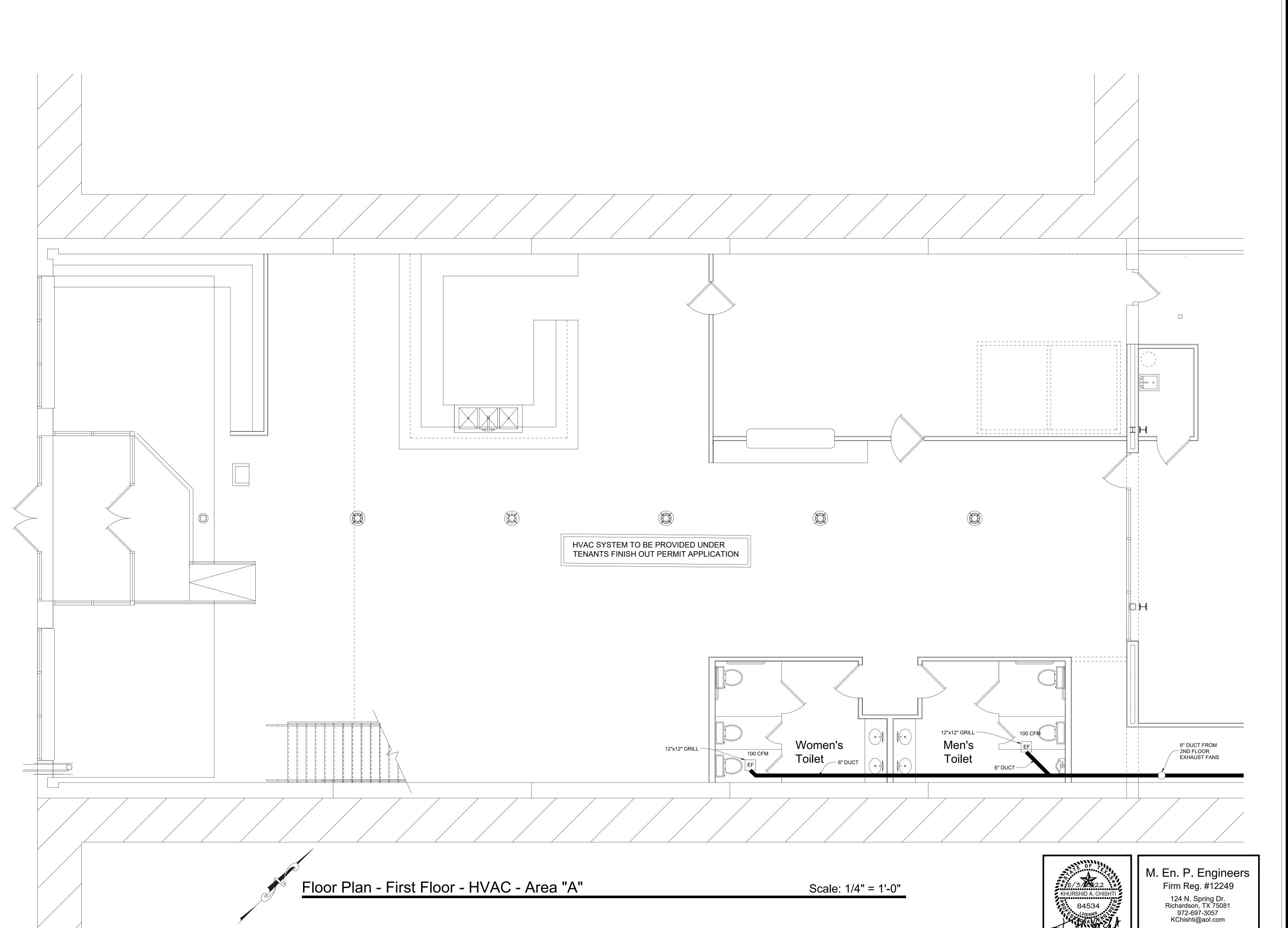
124 N. Spring Dr. Richardson, TX 75081 972-697-3057

KChishti@aol.com

Floor Plan - First Floor - Sanitary Sewer - Area "B"

Scale: 1/4" = 1'-0"







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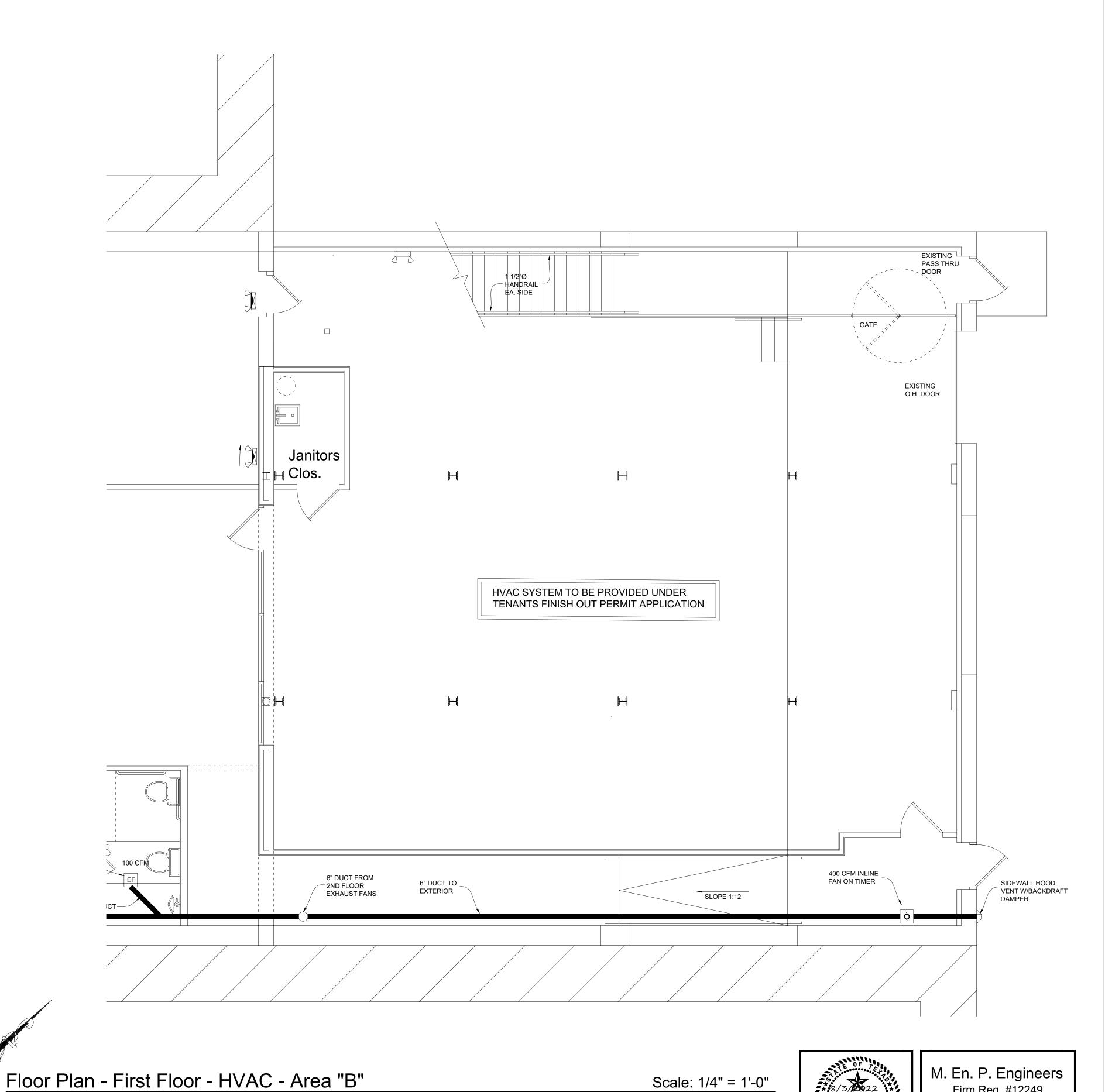
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for 713 Indiana, LLC 713 Indiana

Matthew 7:7

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Sheet Title: 1st Flr. HVAC Area "A"



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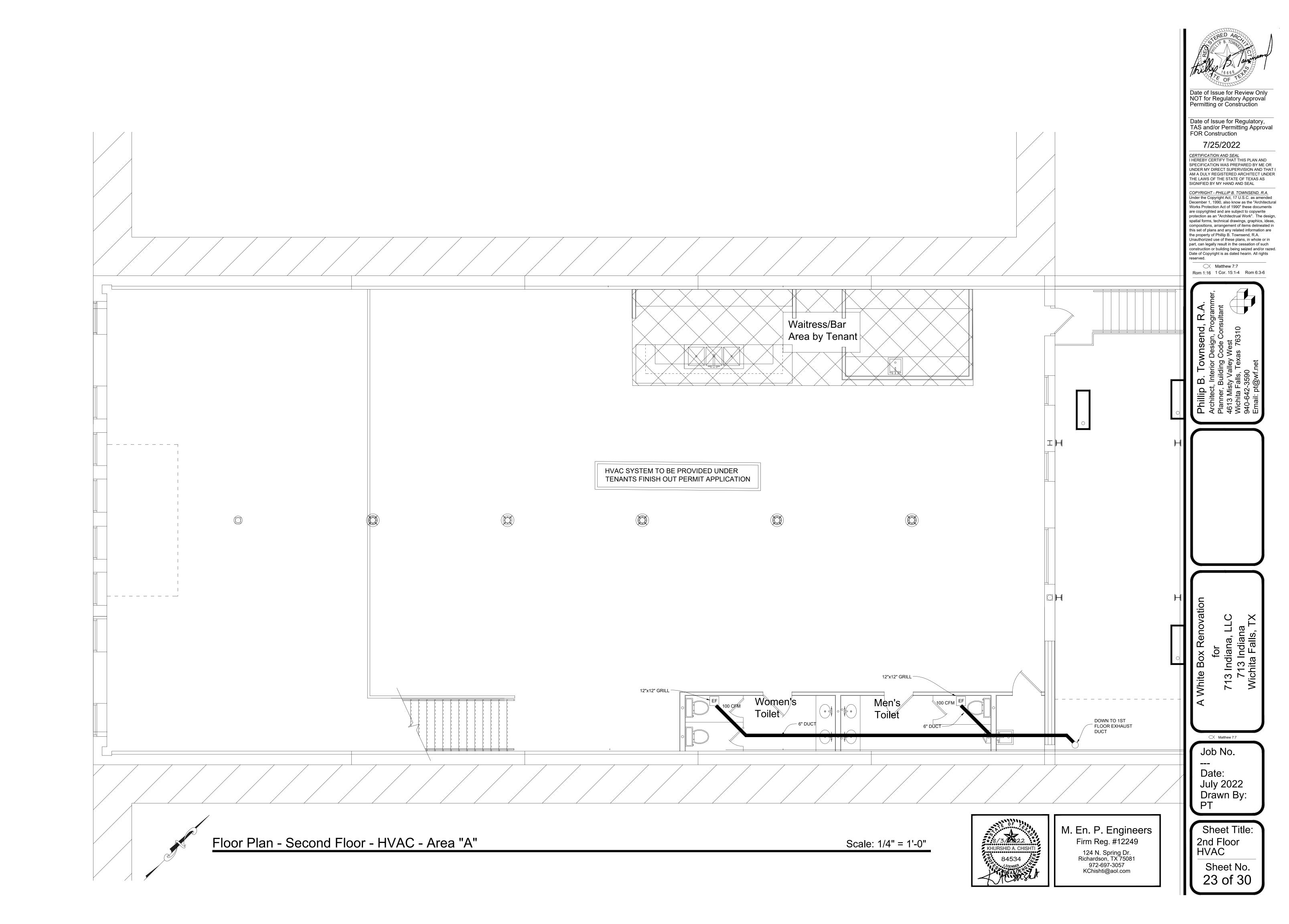
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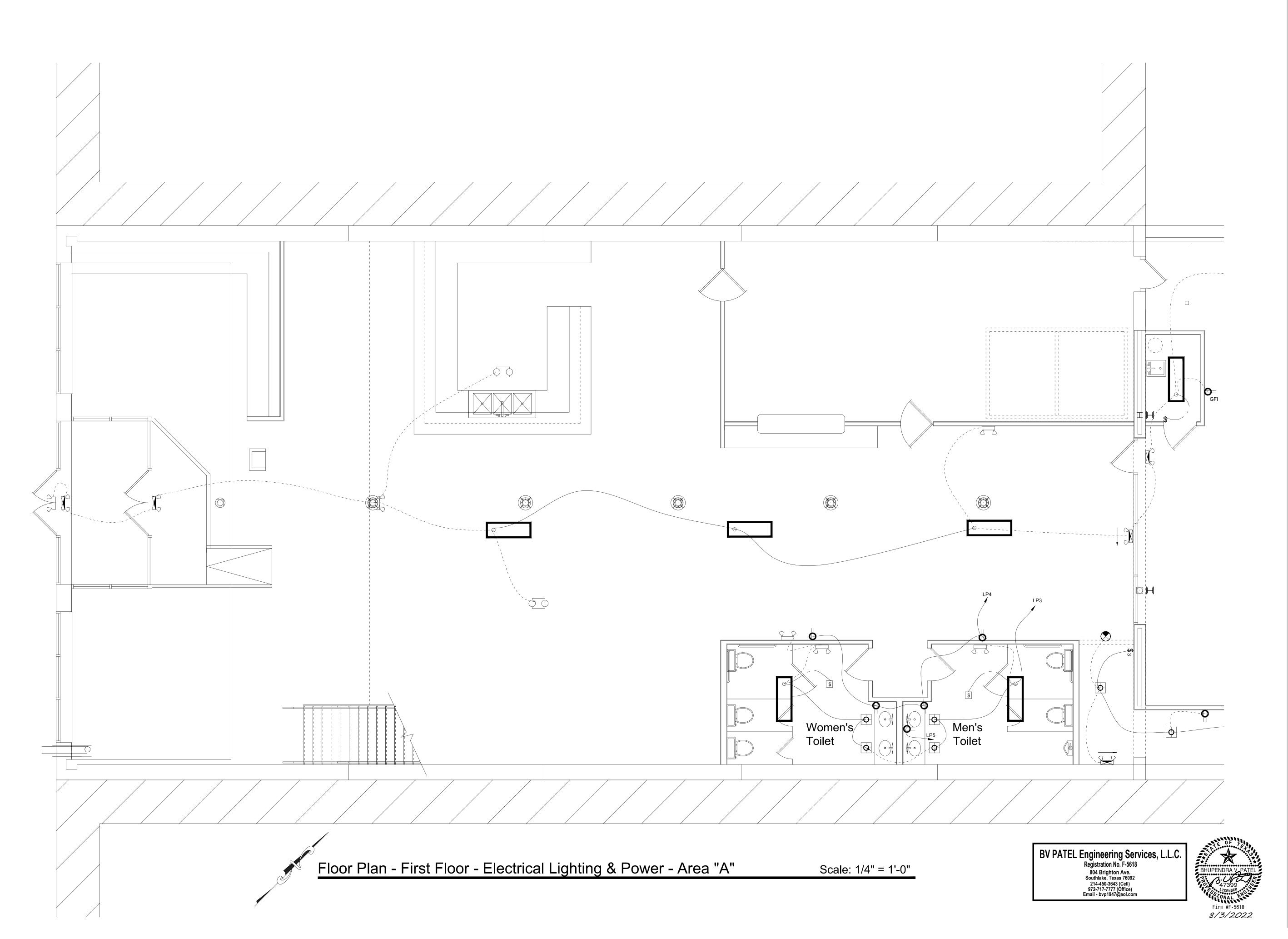
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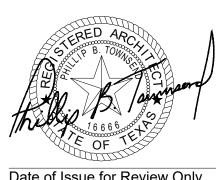
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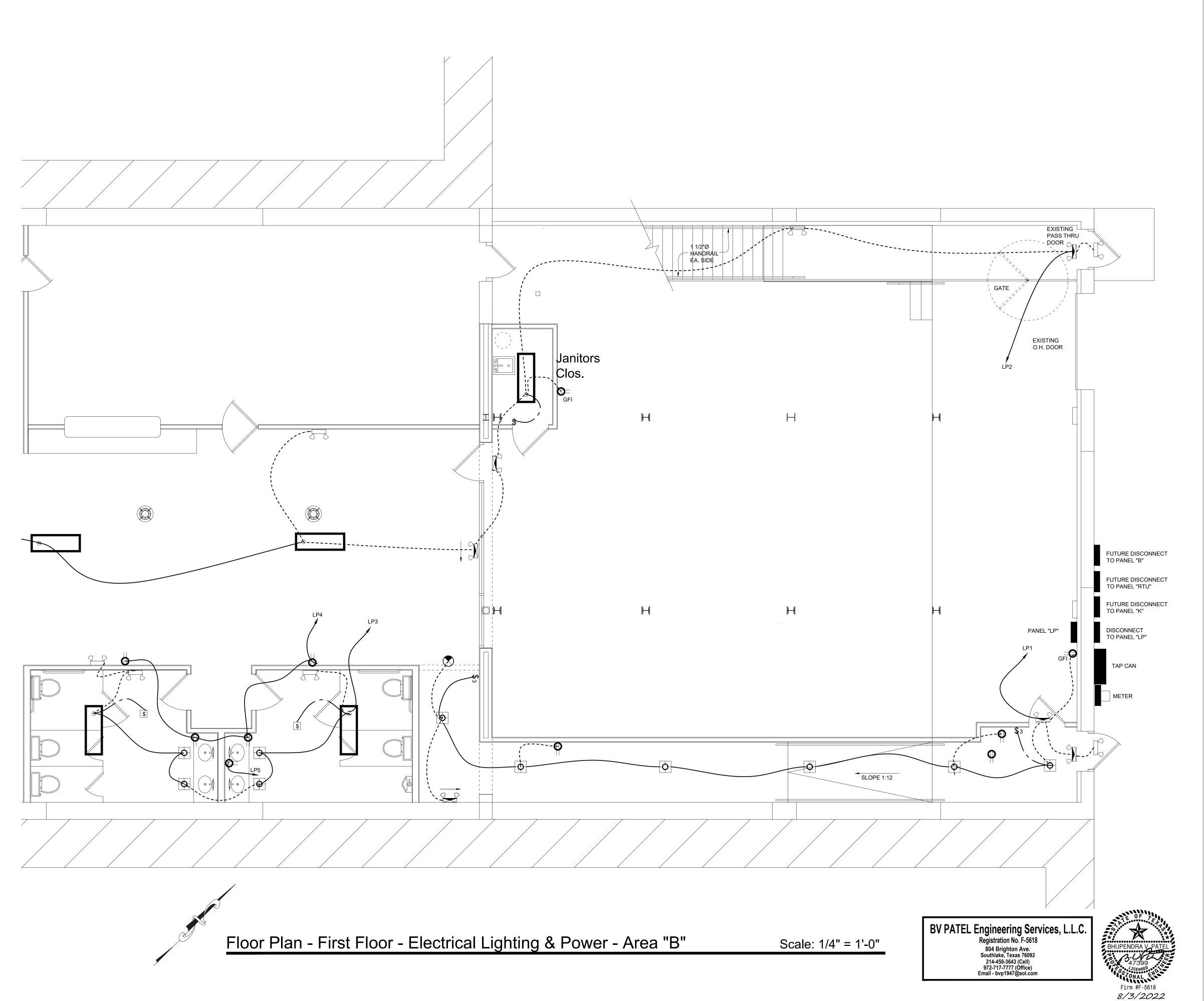
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Sheet Title: 1st Flr. Light & Pwr Area "A"





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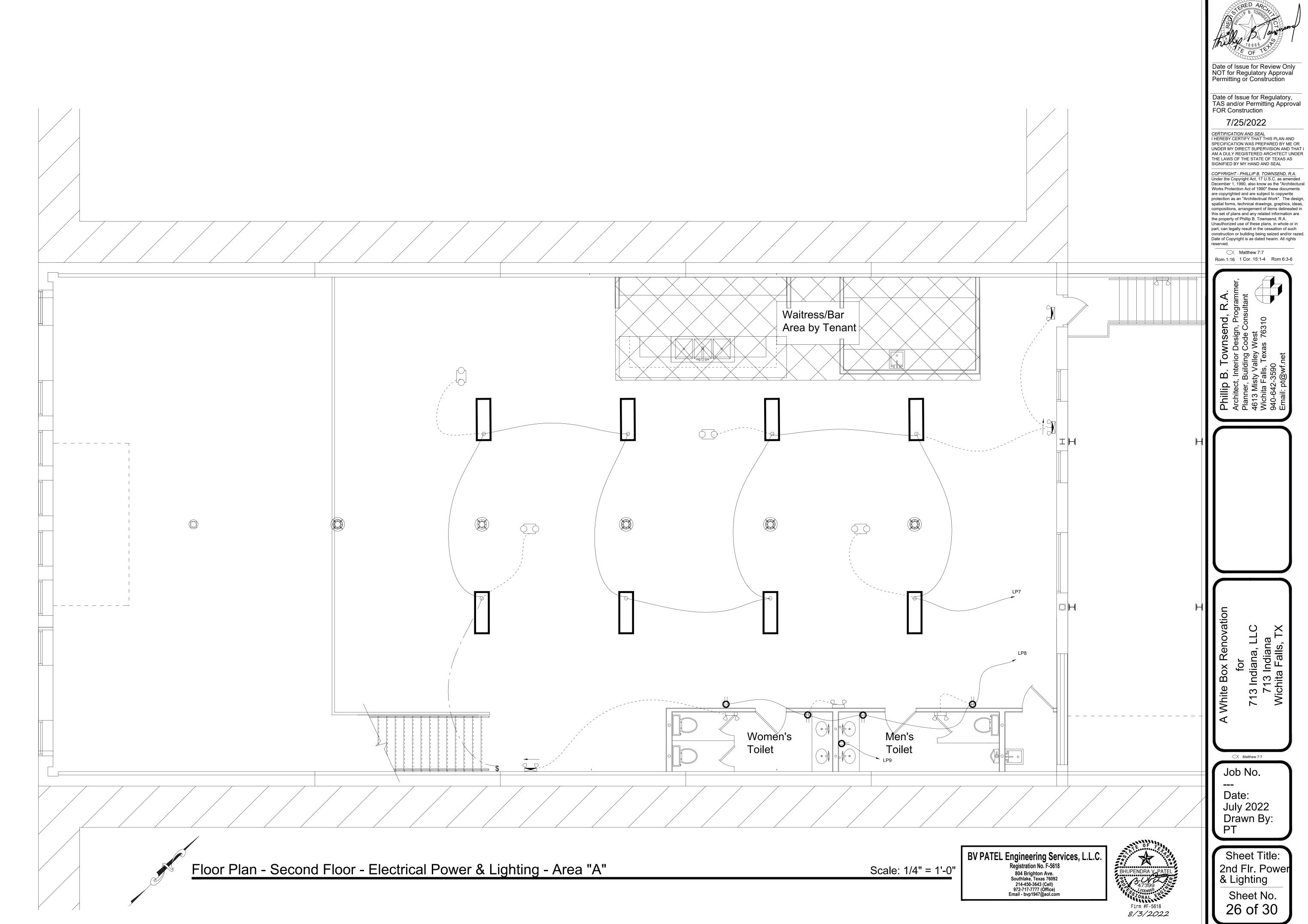
for 713 Indiana, LLC 713 Indiana Wichita Falls, TX

Matthew 7:7

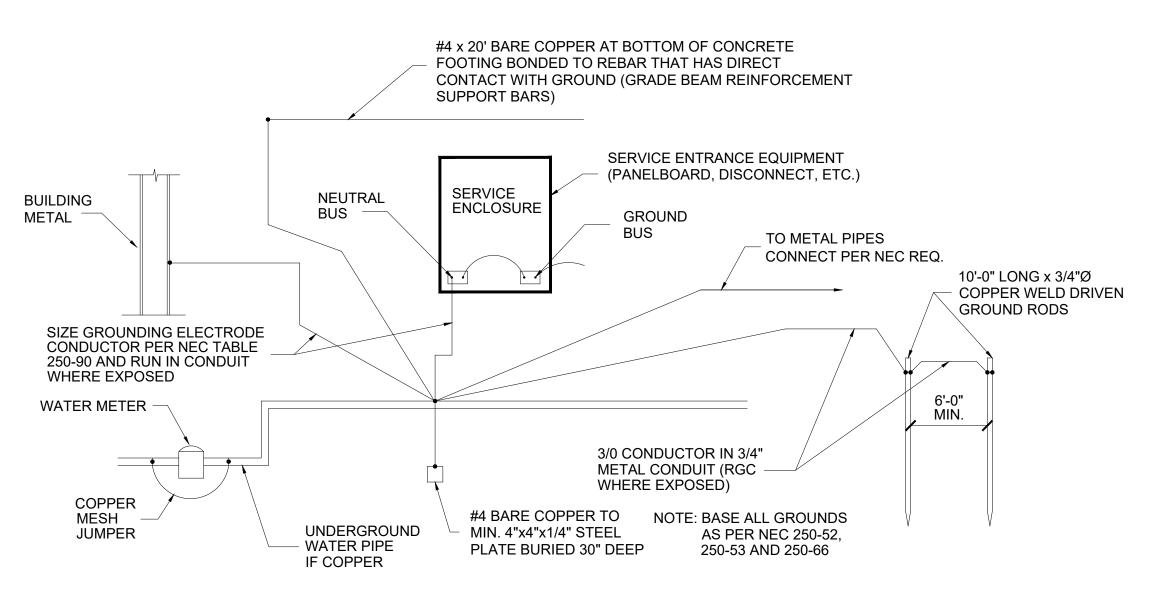
Job No.
--Date:
July 2022
Drawn By:

Sheet Title:
1st Flr. Light
& Pwr Area "B"

Sheet No. 25 of 30



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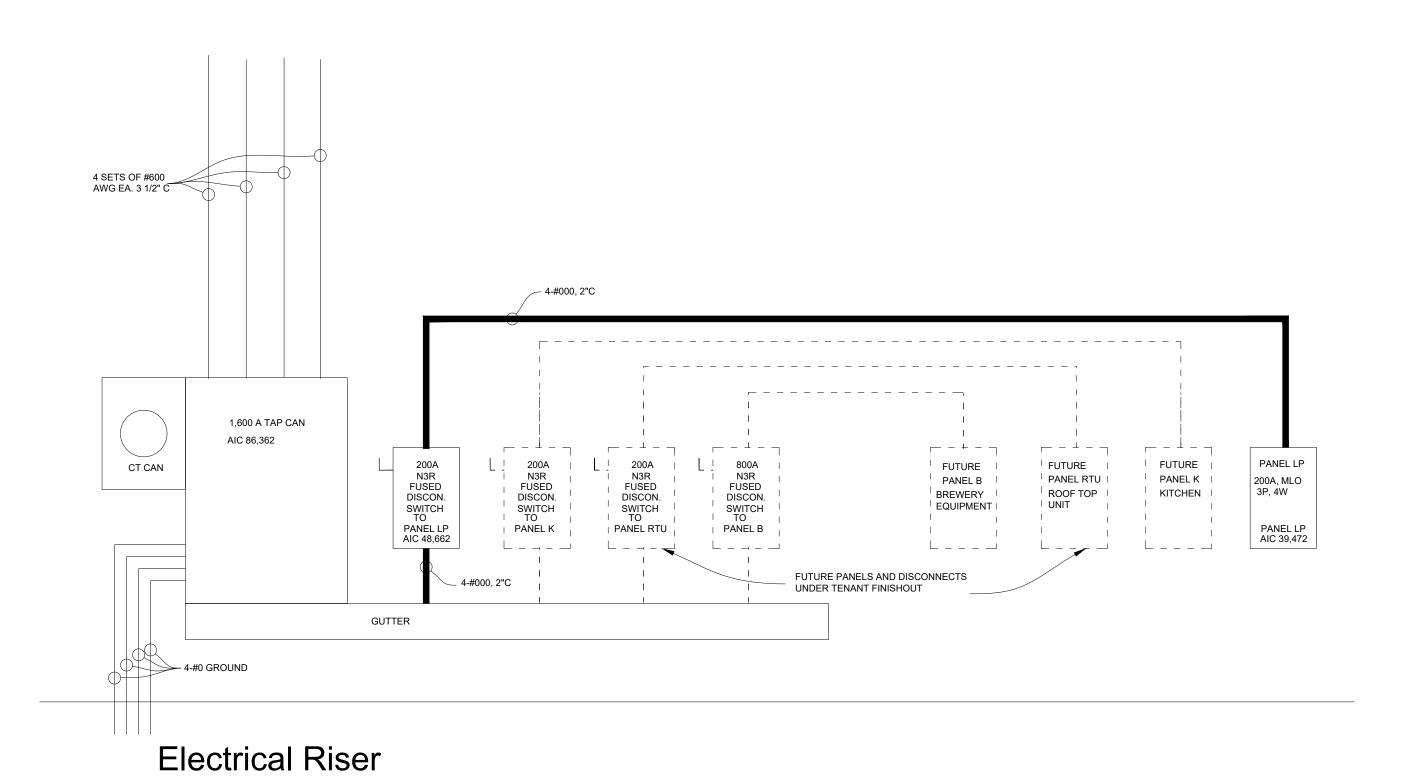


ELECTRICAL SYSTEM GROUND DETAIL

GROUNDING NOTES:

- A. ALL CONDUCTORS SHALL BE MIN. #4 BARE COPPER (RUN IN METAL CONDUIT WHERE REQ'D)
- B. GROUND AND NEUTRAL SHALL BE COPPER
- C. RESISTANCE OF MADE ELECTRODES A SINGLE ELECTRODE CONSISTING OF A ROD, PIPE, OR PLATE THAT DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS SHALL BE AUGMENTED BY ONE ADDITIONAL ELECTRODE

ALL WORK SHALL BE IN ACCORDANCE WITH 2005 NATIONAL ELECTRICAL CODE INCLUDING LATEST LOCAL AMENDMENTS ADOPTED BY THE CITY OF WICHITA FALLS



Panel "LP" 713 Indiana, LLC Circuit | Watts | Feeders | Breaker Breaker Feeders Watts Description Circuit Description Phase Phase Phase "A" kw "B" kw "C" kw 20A 2 #12, 1/2"C 1,000 Lights, Plugs Lights, Plugs 1,200 2 #12, 1/2"C 20A Lights, Plugs 1,200 2 #12, 1/2"C 20A 20A 2 #12, 1/2"C 1,200 Lights, Plugs 1.60 1.20 20A 2 #12, 1/2"C 1,200 Lights, Plugs 1,600 2 #12, 1/2"C 20A Instand W.H. 20A 2 #12, 1/2"C 1,200 Lights, Plugs 1,000 2 #12, 1/2"C 20A Lights 1,600 2 #12, 1/2"C 20A 0.00 0.00

4.40 4.00 2.80

Total load in kw = 11.20 12.44 Total load in kva =

12.44 kva/ 208/ 1.73= 34.58 Amps

> 200A MLO 24 Ckts 120/208 - 3 Phase, 4 Wire #000, #4 Ground 2"C

> > BV PATEL Engineering Services, L.L.C.
> > Registration No. F-5618 804 Brighton Ave. Southlake, Texas 76092 214-450-3643 (Cell) 972-717-7777 (Office) Email - bvp1947@aol.com





Date of Issue for Review Only NOT for Regulatory Approval Permitting or Construction

Date of Issue for Regulatory, TAS and/or Permitting Approval FOR Construction

7/25/2022

CERTIFICATION AND SEAL

I HEREBY CERTIFY THAT THIS PLAN AND
SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF TEXAS AS SIGNIFIED BY MY HAND AND SEAL

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Rom 1:16 1 Cor. 15:1-4 Rom 6:3-6

Drawn By:

Sheet Title: Panel Sched & Riser

302 Floor or Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.



Figur**Figure**C30212 ile Height

302.3 Opening Sampeting ile theightround surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

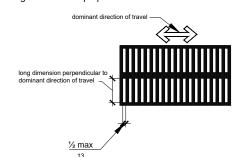


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

Figure 302.3
303.2 Vertical Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical. in Floor or Ground Surfaces



303.3 Beveled. Changes நிலு நகுக்கு 14 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not stepper than 1:2.

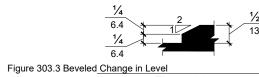


Figure 303.3 Beveled Change in

304 Turning Space 304.3.1 Circular Space. The turning space Hall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm

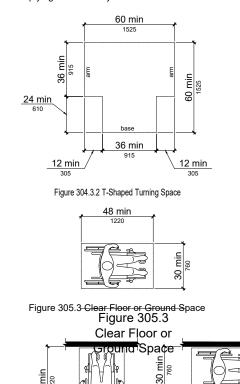


Figure 305.5 Position of Clear Floor or Ground Space Figure 305.5 305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm) sition of Clear Floor or Ground Space

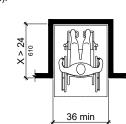


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach
Figure 305.7.1
305.7.2 Parallel Approach, Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds
15 inches (380 mm) laneuvering Clearance



Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306 Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element. 306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance. 306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

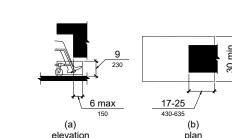


Figure 306.2 Toe Clearance

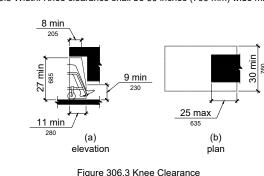
306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.



307 Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

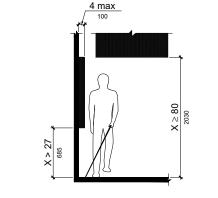


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

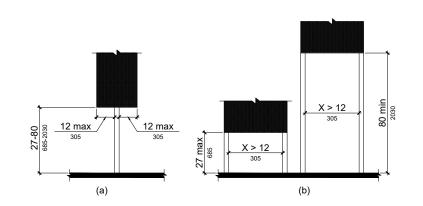
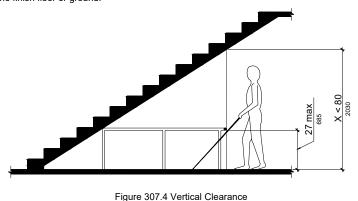


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.



308 Reach Ranges Children's Reach Ranges Forward or Side Reach | High (maximum) Ages 5 through 8 40 = 400 20 in (510 mm)

44 in (1120 mm)

Ages 9 through 12 308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

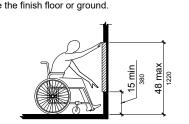


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 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 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

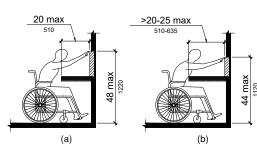
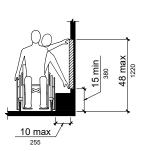


Figure 308.3.1 Unobstructed Side Reach

308.3.1 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 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.



308.3.2 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 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

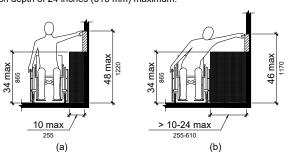


Figure 308.3.2 Obstructed High Side Reach

309 Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308. 309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N)

CHAPTER 4: ACCESSIBLE ROUTES

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403. 403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a

length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

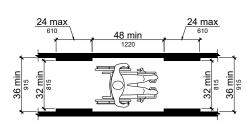


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum

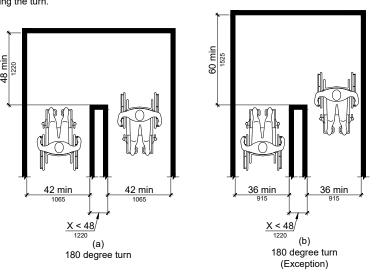


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not

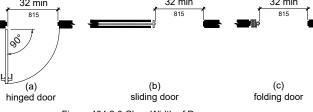
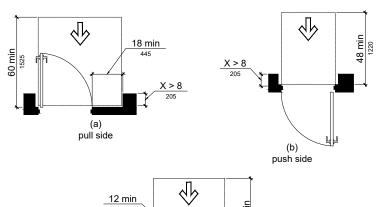


Figure 404.2.3 Clear Width of Doorways 404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular

to the face of the door or gate.



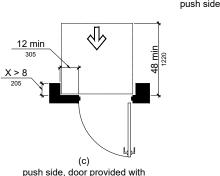


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

both closer and latch

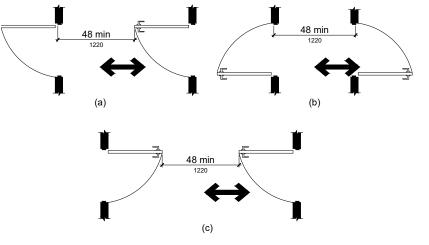


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware, Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a

door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

Cavities created by added kick plates shall be capped.

Landings shall comply with 405.7.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum. These forces do not apply to the force required to retract latch bolts or disengage other

devices that hold the door or gate in a closed position. 404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical ioints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other.

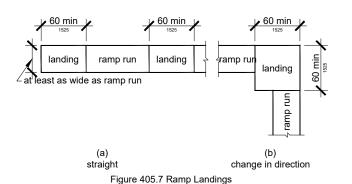
404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates, Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1), Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4. 404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12. 405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48. 405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear

width between handrails shall be 36 inches (915 mm) minimum. 405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum. 405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run.



405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted. 405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum. 405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum 405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505. 405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings 405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail

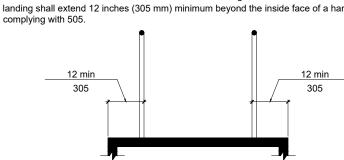


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

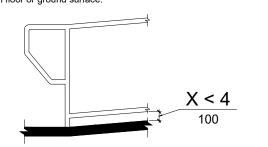
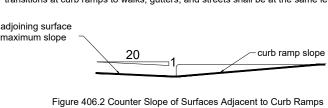


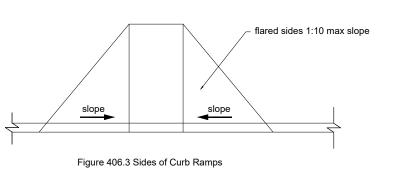
Figure 405.9.2 Curb or Barrier Edge Protection

406 Curb Ramps 406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

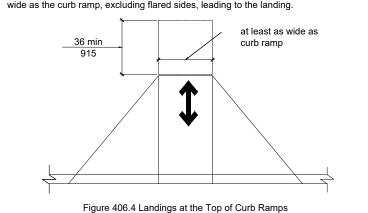
406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.



406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.



406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as



406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long

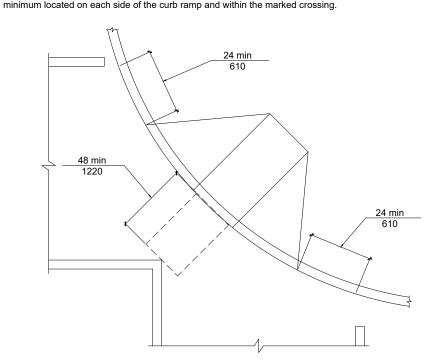


Figure 406.6 Diagonal or Corner Type Curb Ramps

permitted to overlap.

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be

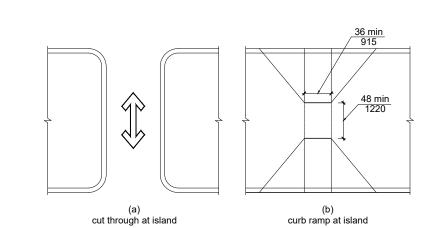


Figure 406.7 Islands in Crossings



NOT for Regulatory Approval Permitting or Construction

Date of Issue for Regulatory, TAS and/or Permitting Approval

7/25/2022

FOR Construction

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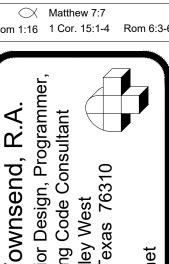
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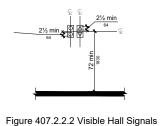
Sheet Title TX Access. Standards

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic. EXCEPTION: Existing conditions don't have to comply

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension. 407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where

in-car signals are provided, they shall be visible from the floor area adjacent to the hall call

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from



 $407.2.3.1\ Floor\ Designation.\ Floor\ designations\ complying\ with\ 703.2\ and\ 703.4.1\ shall\ be\ provided$ on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

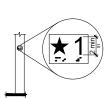


Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances 407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Ca designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum

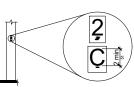
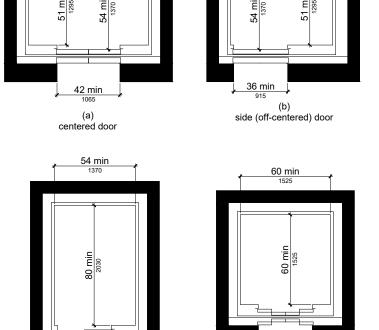


Figure 407.2.3.2 Car Designations on Jambs of Destination-Oriented Elevator Hoistway Entrances 407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor. 407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum. 407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following

T = D/(1.5 ft/s) or T = D/(455 mm/s) = 5 seconds minimum where T equals the total time inseconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds 407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1. 407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall



any door location any door location

Figure 407.4.1 Elevator Car Dimensions 407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically

bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated

loading to zero loading conditions.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308. 407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension. 407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm)

minimum above the finish floor. 407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2. 407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

408 Limited-Use/Limited-Application Elevators

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

408.1 General. Limited-use/limited-application elevators shall comply with 408 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

408.2 Elevator Landings. Landings serving limited-use/limited-application elevators shall comply with

408.2.1 Call Buttons. Elevator call buttons and keypads shall comply with 407.2.1.

408.2.2 Hall Signals. Hall signals shall comply with 407.2.2.

408.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.1. 408 3 Flevator Doors Flevator hoistway doors shall comply with 408 3

408.3.1 Sliding Doors. Sliding hoistway and car doors shall comply with 407.3.1 through 407.3.3

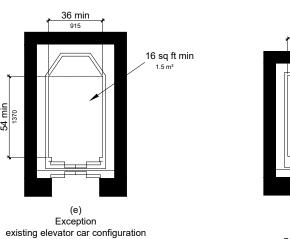
408.3.2 Swinging Doors. Swinging hoistway doors shall open and close automatically and shall

408.3.2.1 Power Operation, Swinging doors shall be power-operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" 408.3.2.2 Duration. Power-operated swinging doors shall remain open for 20 seconds minimum

408.4 Elevator Cars. Elevator cars shall comply with 408.4.

when activated.

408.4.1 Car Dimensions and Doors. Elevator cars shall provide a clear width 42 inches (1065 mm) minimum and a clear depth 54 inches (1370 mm) minimum. Car doors shall be positioned at the narrow ends of cars and shall provide 32 inches (815 mm) minimum clear width.



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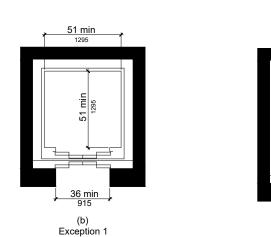


Figure 408.4.1 Limited-Use/Limited-Application (LULA) Elevator Car Dimensions

408.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303. $408.4.3 \ Platform\ to\ Hoistway\ Clearance.\ The\ platform\ to\ hoistway\ clearance\ shall\ comply\ with$

408.4.4 Leveling. Elevator car leveling shall comply with 407.4.4.

centered on a side wall.

408.4.5 Illumination. Elevator car illumination shall comply with 407.4.5. 408.4.6 Car Controls. Elevator car controls shall comply with 407.4.6. Control panels shall be

408.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls

408.4.8 Emergency Communications. Car emergency signaling devices complying with 407.4.9 shall 409 Private Residence Elevators 409.1 General. Private residence elevators that are provided within a residential dwelling un required to provide mobility features complying with 809.2 through 809.4 shall comply with 409

and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They

shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic. 409.2 Call Buttons. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension and shall comply with 309.

409.3 Elevator Doors. Hoistway doors, car doors, and car gates shall comply with 409.3 and 404.

409.3.1 Power Operation. Elevator car and hoistway doors and gates shall be power operated and shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Power operated doors and gates shall remain open for 20

409.3.2 Location. Elevator car doors or gates shall be positioned at the narrow end of the clear

409.4 Elevator Cars. Private residence elevator cars shall comply with 409.4. 409.4.1 Inside Dimensions of Elevator Cars. Elevator cars shall provide a clear floor space of 36 inches (915 mm) minimum by 48 inches (1220 mm) minimum and shall comply with 305.

409.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303. 409.4.3 Platform to Hoistway Clearance. The clearance between the car platform and the edge of any landing sill shall be 1 1/2 inch (38 mm) maximum.

409.4.4 Leveling. Each car shall automatically stop at a floor landing within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

409.4.5 Illumination Levels. Elevator car illumination shall comply with 407.4.5. 409.4.6 Car Controls. Elevator car control buttons shall comply with 409.4.6, 309.3, 309.4, and

409.4.6.1 Size. Control buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

409.4.6.2 Location. Control panels shall be on a side wall, 12 inches (305 mm) minimum from

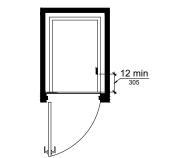


Figure 409.4.6.2 Location of Private Residence Elevator Control Pane

409.4.7 Emergency Communications. Emergency two-way communication systems shall comply with 409.4.7.1 Type. A telephone and emergency signal device shall be provided in the car. 409.4.7.2 Operable Parts. The telephone and emergency signaling device shall comply with 309.3

409.4.7.3 Compartment. If the telephone or device is in a closed compartment, the compartment door hardware shall comply with 309.

409.4.7.4 Cord. The telephone cord shall be 29 inches (735 mm) long minimum.

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

Advisory 410.1 General. Inclined stairway chairlifts and inclined and vertical platform lifts are available for short-distance vertical transportation. Because an accessible route requires an 80 inch (2030 mm) vertical clearance, care should be taken in selecting lifts as they may not be equally suitable for use by people using wheelchairs and people standing. If a lift does not provide 80 inch (2030 mm) vertical clearance, it cannot be considered part of an accessible route in new

The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners are reminded that the ASME A18 Safety Standard for Platform Lifts and Stairway Chairlifts requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

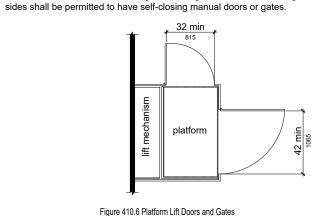
410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305. 410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1 inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum

EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite



501.1 Scope. The provisions of Chapter 5 shall apply where required by Chapter 2 or where referenced by a requirement in this document

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.

access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle. 502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the

EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or

width, and shall have an adjacent access aisle complying with 502.3. EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

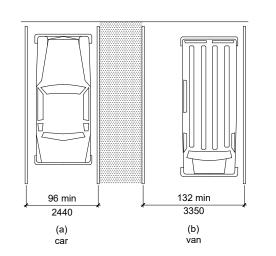


Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

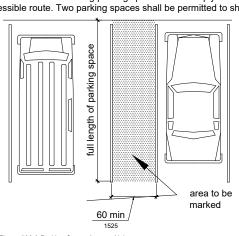


Figure 502.3 Parking Space Access Aisle 502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm)

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve. 502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them. 502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces. 502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum. 502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible

503 Passenger Loading Zones

503.2 Vehicle Pull-Up Space. Passenger loading zones shall provide a vehicular pull-up space 96 inches (2440 mm) wide minimum and 20 feet (6100 mm) long minimum. 503.3 Access Aisle, Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull-up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.

503.3.1 Width. Access aisles serving vehicle pull-up spaces shall be 60 inches (1525 mm) wide 503.3.2 Length. Access aisles shall extend the full length of the vehicle pull-up spaces they serve. 503.3.3 Marking. Access aisles shall be marked so as to discourage parking in them

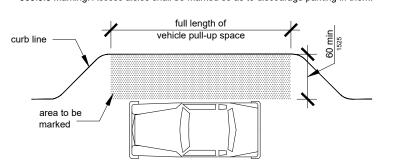


Figure 503.3 Passenger Loading Zone Access Aisle

503.4 Floor and Ground Surfaces. Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted. EXCEPTION: Slopes not steeper than 1:48 shall be permitted 503.5 Vertical Clearance. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 114 inches (2895 mm) minimum.

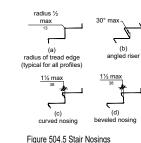
504.1 General. Stairs that are part of the means of egress is required to comply with 504 504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and

high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted 504.5 Nosings. The radius of curvature at the leading edge of the tread shall be 1/2 inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2 inches (38 mm) maximum over the tread below.

uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm)



504.6 Handrails. Stairs shall have handrails complying with 505. 504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water

505.1 General. Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505. Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking

surfaces with running slopes less than 1:20. However, handrails are required to comply with 505

when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs. 505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps. 505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights

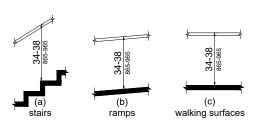


Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

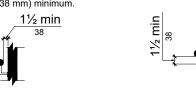


Figure 505.5 Handrail Clearance Figure 505.6 Horizontal Projections Below Gripping Surface 505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface. 505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum. 505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm)

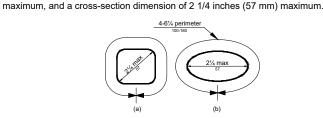


Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edge 505.9 Fittings Handrails shall not rotate within their fittings 505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

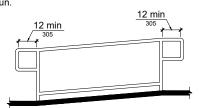


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to

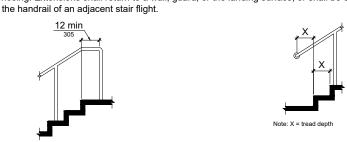


Figure 505.10.2 Top Handrail Extension at Stairs Figure 505.10.3 Bottom Handrail Extension at Stairs 505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the

last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602 Drinking Fountains 602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is

602.3 Operable Parts. Operable parts shall comply with 309. 602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish 602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the

vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including

3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

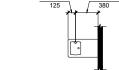


Figure 602.5 Drinking Fountain Spout Location

the finish floor or ground.

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum 602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing

persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above

603 Toilet and Bathing Rooms

603.2 Clearances, Clearances shall comply with 603.2. 603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room. 603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space 603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground. 603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments 604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

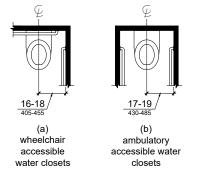


Figure 604.2 Water Closet Location 604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

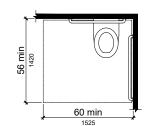


Figure 604.3.1 Size of Clearance at Water Closets 604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall. 604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm)

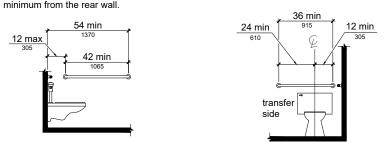


Figure 604.5.1 Side Wall Grab Bar at Water Closets Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2. 604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow

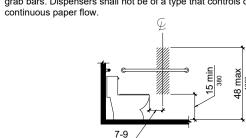


Figure 604.7 Dispenser Outlet Location 604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply 604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide

minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall. and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

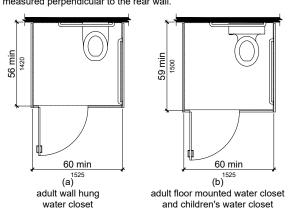


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment 604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

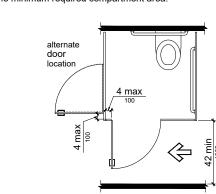


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors 604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is

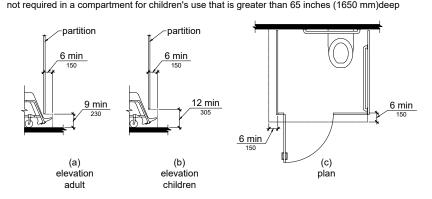


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance 604.8.1.5 Grab Bars, Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525) mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm)

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with

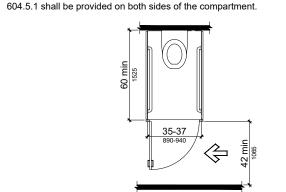


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9. 604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to

one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5. 604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow. 604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

return to a lifted position.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the

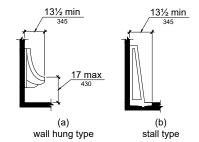


Figure 605.2 Height and Depth of Urinals 605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided 605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

shall remain open for 10 seconds minimum.

or abrasive surfaces under lavatories and sinks.

606 Lavatories and Sinks 606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided. 606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground. 606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A layatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks

shall be insulated or otherwise configured to protect against contact. There shall be no sharp

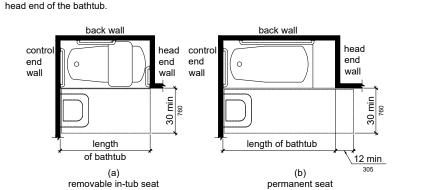


Figure 607.2 Clearance for Bathtubs

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610. 607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

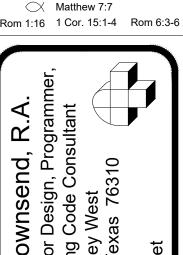
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607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

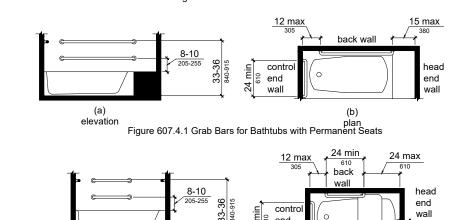


Figure 607.4.2 Grab Bars for Bathtubs with Removable In-Tub Seats

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub. 607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

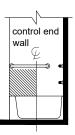


Figure 607.5 Bathtub Control Location

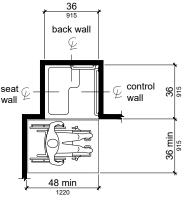
607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4. 607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the

608 Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2. 608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36

inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.



Note: inside finished dimensions measured at the center points Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment 608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

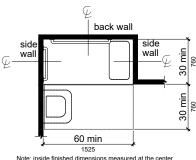


Figure 608.2.2 Standard Roll-In Type Shower Compartment Size and Clearance 608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

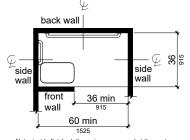


Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

608.3 Grab Bars, Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the

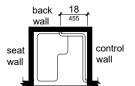
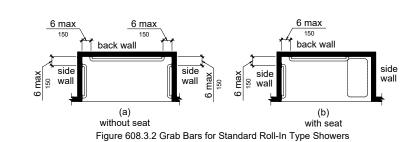
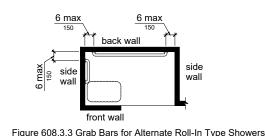


Figure 608.3.1 Grab Bars for Transfer Type Showers 608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three

walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.



608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls



608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610. 608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4. 608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower oper

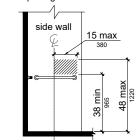


Figure 608.5.1 Transfer Type Shower Compartment Control Location

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat

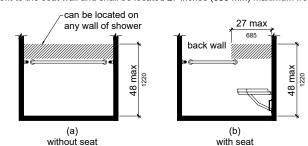


Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall

shower spray unit shall be installed on the side wall farthest from the compartment entry

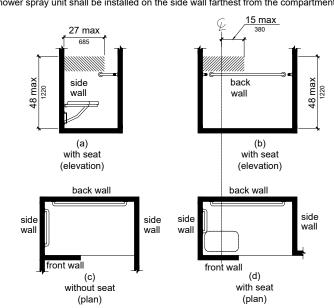


Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum. 608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm)

high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars 609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section. Grab bars shall have a cross section complying with 609.2.1 or 609.2.2. 609.2.1 Circular Cross Section, Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a cross-section dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4

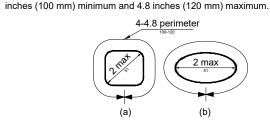


Figure 609.2.2 Grab Bar Non-Circular Cross Section

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall

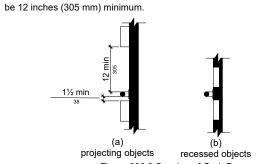


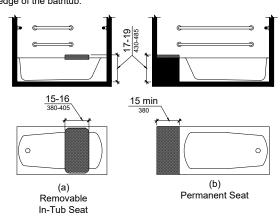
Figure 609.3 Spacing of Grab Bars 609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space 609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the



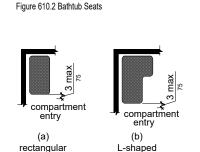


Figure 610.3 Extent of Seat 610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall

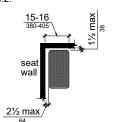
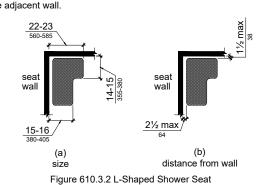


Figure 610.3.1 Rectangular Shower Seat

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.



610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength, Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure

611 Washing Machines and Clothes Dryers

611.2 Clear Floor Space. A clear floor or ground space complying with 305 positioned for parallel approach shall be provided. The clear floor or ground space shall be centered on the

611.3 Operable Parts. Operable parts, including doors, lint screens, and detergent and bleach compartments shall comply with 309.

611.4 Height. Top loading machines shall have the door to the laundry compartment located 36 inches (915 mm) maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15 inches (380 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

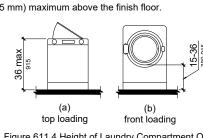


Figure 611.4 Height of Laundry Compartment Opening

612.2 Bench. Where seating is provided in saunas and steam rooms, at least one bench shall

612.3 Turning Space. A turning space complying with 304 shall be provided within saunas and

comply with 903. Doors shall not swing into the clear floor space required by 903.2.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

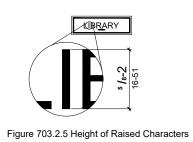
702 Fire Alarm Systems 702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1) except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in quest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections

7.4 and 7.5 of NFPA 72 (2002 edition). 703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4. 703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background. 703.2.2 Case. Characters shall be uppercase

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms. 703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter



703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

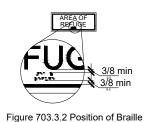
703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

distance between corresponding dots in adjacent cells in the same cell single braille cell distance between dots in the same cell distance between corresponding dots from one cell directly below base diamete no raised dot Figure 703.3.1 Braille Measurement

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.



703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4. 703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from

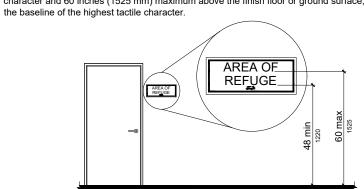
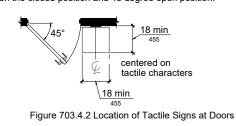


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.



703 5 Visual Characters Visual characters shall comply with 703 5 703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both. 703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly

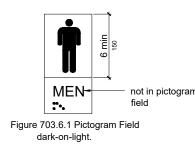
703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I". 703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further

approach towards the sign. Character height shall be based on the uppercase letter "I". 703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground. 703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6. 703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters



703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field 703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7. 703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

704.1 General. Public telephones shall comply with 704.

704.2 Wheelchair Accessible Telephones. Wheelchair accessible telephones shall comply with 704.2. 704.2.1 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats.

Advisory 704.2.1 Clear Floor or Ground Space. Because clear floor and ground space is required to be unobstructed, telephones, enclosures and related telephone book storage cannot encroach on the required clear floor or ground space and must comply with the provisions for protruding objects. (See Section 307). 704.2.1.1 Parallel Approach. Where a parallel approach is provided, the distance from the edge of the

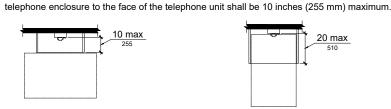


Figure 704.2.1.2 Forward Approach to Telephone Figure 704.2.1.1 Parallel Approach to Telephone

704.2.1.2 Forward Approach. Where a forward approach is provided, the distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20 inches (510 mm)

704.2.2 Operable Parts. Operable parts shall comply with 309. Telephones shall have push-button controls

where such service is available 704.2.3 Telephone Directories. Telephone directories, where provided, shall be located in accordance with

704.2.4 Cord Length. The cord from the telephone to the handset shall be 29 inches (735 mm) long

704.3 Volume Control Telephones. Public telephones required to have volume controls shall be equipped with a receive volume control that provides a gain adjustable up to 20 dB minimum. For incremental volume control, provide at least one intermediate step of 12 dB of gain minimum. An automatic reset shall be

704.4 TTYs. TTYs required at a public pay telephone shall be permanently affixed within, or adjacent to, the telephone enclosure. Where an acoustic coupler is used, the telephone cord shall be sufficiently long to allow connection of the TTY and the telephone receiver. 704.4.1 Height. When in use, the touch surface of TTY keypads shall be 34 inches (865 mm) minimum

above the finish floor. 704.5 TTY Shelf. Public pay telephones required to accommodate portable TTYs shall be equipped with a shelf and an electrical outlet within or adjacent to the telephone enclosure. The telephone handset shall be capable of being placed flush on the surface of the shelf. The shelf shall be capable of accommodating a TTY and shall have 6 inches (150 mm) minimum vertical clearance above the area where the TTY is to be

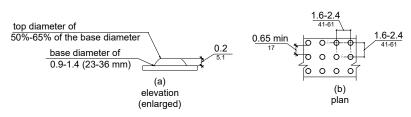
705 Detectable Warnings 705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base

diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid. 705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center



light-on-dark, or dark-on-light.

Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform

706 Assistive Listening Systems

706.2 Receiver Jacks. Receivers required for use with an assistive listening system shall include a 1/8 inch (3.2 mm) standard mono jack. 706.3 Receiver Hearing-Aid Compatibility. Receivers required to be hearing-aid compatible shall interface

with telecoils in hearing aids through the provision of neckloops. 706.4 Sound Pressure Level. Assistive listening systems shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB. 706.5 Signal-to-Noise Ratio. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum.

706.6 Peak Clipping Level. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of

707 Automatic Teller Machines and Fare Machines

707.2 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided. 707.3 Operable Parts. Operable parts shall comply with 309. Unless a clear or correct key is provided, each operable part shall be able to be differentiated by sound or touch, without activation.

EXCEPTION: Drive-up only automatic teller machines and fare machines shall not be required to comply with

707.4 Privacy. Automatic teller machines shall provide the opportunity for the same degree of privacy of input and output available to all individuals. 707.5 Speech Output. Machines shall be speech enabled. Operating instructions and orientation, visible transaction prompts, user input verification, error messages, and all displayed information for full use shall

be accessible to and independently usable by individuals with vision impairments. Speech shall be delivered standard connector or a telephone handset. Speech shall be recorded or digitized human, or synthesized. 707.5.1 User Control. Speech shall be capable of being repeated or interrupted. Volume control shall be provided for the speech function

707.5.2 Receipts. Where receipts are provided, speech output devices shall provide audible balance inquiry information, error messages, and all other information on the printed receipt necessary to complete or verify the transaction. 707.6 Input. Input devices shall comply with 707.6.

707.6.1 Input Controls. At least one tactilely discernible input control shall be provided for each function. Where provided, key surfaces not on active areas of display screens, shall be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernable from surrounding surfaces and adjacent keys.

707.6.2 Numeric Keys. Numeric keys shall be arranged in a 12-key ascending or descending telephone keypad layout. The number five key shall be tactilely distinct from the other keys.

707.6.3.1 Contrast, Function keys shall contrast visually from background surfaces, Characters and symbols on key surfaces shall contrast visually from key surfaces. Visual contrast shall be either light-on-dark or

707.6.3.2 Tactile Symbols. Function key surfaces shall have tactile symbols as follows: Enter or Proceed key: raised circle; Clear or Correct key: raised left arrow; Cancel key: raised letter ex; Add Value key: raised plus sign; Decrease Value key: raised minus sign.

707.7 Display Screen. The display screen shall comply with 707.7.

707.7.1 Visibility. The display screen shall be visible from a point located 40 inches (1015 mm) above the 707.7.2 Characters. Characters displayed on the screen shall be in a sans serif font. Characters shall be 3/16 inch (4.8 mm) high minimum based on the uppercase letter "I". Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

707.8 Braille Instructions. Braille instructions for initiating the speech mode shall be provided. Braille shall

comply with 703.3. 708 Two-Way Communication Systems

708.1 General. Two-way communication systems shall comply with 708. 708.2 Audible and Visual Indicators. The system shall provide both audible and visual signals.

708.3 Handsets, Handset cords, if provided, shall be 29 inches (735 mm) long minimum. 708.4 Residential Dwelling Unit Communication Systems. Communications systems between a residential dwelling unit and a site, building, or floor entrance shall comply with 708.4.

708.4.1 Common Use or Public Use System Interface. The common use or public use system interface shall

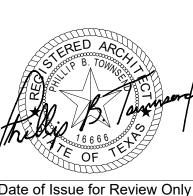
include the capability of supporting voice and TTY communication with the residential dwelling unit interface.

Matthew 7:7

July 2022 Drawn By:

TX Access Standards

Sheet Title



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Date of Issue for Regulatory,

7/25/2022

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