

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 & 2)**

Name of Project: **31 WEST FRONT BUILDING RENOVATION** Zip Code **27546**
 Address: **31 WEST FRONT STREET, LILLINGTON, NC**
 Owner/Authorized Agent: **ANN MILTON** Phone# **910-237-1675** E-Mail **ANN@ANNMILTON.COM**
 Owned By: City/County Private State
 Code Enforcement/Jurisdiction: City County **HARNETT** State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	TONY JOHNSON ARCHITECTURE	TONY JOHNSON	4296	(919) 550-7717	tony@tonyjohnsonarchitect.com
Civil					
Electrical	KILIAN ENGINEERING	JACOB HAMILTON	48012	252-438-8778	mkilian@kilianengineering.com
Fire Alarm					
Plumbing	KILIAN ENGINEERING	JACOB HAMILTON	48012	252-438-8778	mkilian@kilianengineering.com
Mechanical	KILIAN ENGINEERING	JACOB HAMILTON	48012		mkilian@kilianengineering.com
Sprinkler-Standpipe					
Structural	TYNDALL ENGINEERING	PRENTICE TYNDALL	024899	919-773-1200	plyndall@tyndallengineering.com
Retaining Walls >5' High					
Other					

(*Others* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE:

- New building Addition Renovation
- First time interior completion (upfit)
- Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
- Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE:

- Existing: Prescriptive Repair Chapter 14
- Alteration: Level I Level II Level III
- Historic Property Change of Use

Constructed: (date) XXXX Current Occupancy (S) (Ch. 3): B
 Renovated: (date) XXXX Proposed Occupancy (S) (Ch. 3): B, R-3

Risk Category (Table 1604.5): Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA:

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Yes Partial NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class: I II III Wet Dry
 Fire District: No Yes Flood Hazard Area: No Yes
 Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ.FT)	SUB-TOTAL
3 rd Floor				
2 nd Floor	983		983	983
Mezzanine				
1 st Floor	968		968	968
Basement				
TOTAL	1,951		1,951	1,951

ALLOWABLE AREA: CHAPTER 5

OCCUPANCY

Primary Occupancy:
 Assembly 303 A-1 A-2 A-3 A-4 A-5
 Business 304 B
 Educational 305 E
 Factory 306 F-1 Moderate F-2 Low
 Hazardous 307 H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional 308 I-1 Condition 1 2 I-2 Condition 1 2
 I-3 Condition 1 2 3 4 5 I-4 Day Care
 Mercantile 309 M
 Residential 310 R-1 R-2 R-3 R-4
 Storage 311 S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
 Utility and Miscellaneous 312 U

Accessory Occupancy Classification(s) (<- 10%): XXXXXXXXXX

Incidental Uses (Table 509): XXXXXXXXXX

Special Uses (Chapter 4 - List Code Sections): XXXXXXXXXX

Special Provisions (Chapter 5 - List Code Sections): XXXXXXXXXX

Mixed Occupancy: No Yes Separation: 1HR Hr. Exception: _____

- Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
- Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
 Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1
 Allowable Area of Occupancy A Allowable Area of Occupancy B = <100
XXXXX + XXXXX + ... = XXXXX

ALLOWABLE AREA

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2* AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	B	988	19,000	---	EXISTING
2	R-3	983	UL		

- Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width= XXXXX (F)
 b. Total Building Perimeter= XXXXX (P)
 c. Ratio (F/P)= XXXXX (F/P)
 d. W=Minimum width of public way= XXXXX (W)
 e. Percent of frontage increase I(t)= [F/P-0.25]x W/30= XXXXX (%)

- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area=total number of stories in the building x D (maximum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT

BUILDING HEIGHT IN FEET (TABLE 504.3)	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
---	---	EXISTING	
BUILDING HEIGHT IN STORIES (TABLE 504.4)	---	EXISTING	

- Provide code reference if the 'Shown on Plans' quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS: CHAPTER 6 (TABLE 601)

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
		REQ'D	PROVIDED (W/ REDUCTION)				
Structural Frame, including columns, girders, trusses	>30'						
Bearing Walls							
Exterior	0						
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls	0						
North	>30'						
East	0		EXISTING				
West	>30'						
South	0'		EXISTING				
Interior walls and partitions							
Floor Construction including supporting beams and joists	N/A						
Floor Ceiling Assembly	1 HR	1 HR		A-0.3.0.4	UL-L501		
Column Supporting Floors	N/A						
Roof Construction, including supporting beams and joists	N/A						
Column Supporting Roof	N/A						
Shaft Enclosures - Exit	N/A						
Shaft Enclosures - Other	N/A						
Corridor Separation	N/A						
Occupancy/Fire Barrier Separation	N/A						
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Floor Ceiling Assembly	N/A						
Tenant/Dwelling Unit/ Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS:

FIRE SEPARATION DISTANCE (FEET FROM PERPETRY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'			

LIFE SAFETY SYSTEM REQUIREMENTS: Chapters 9 and 10

Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial _____
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS:

Life Safety Plan Sheet #, if Provided: A-0.2
 Fire and/or smoke rated wall locations (Chapter 7) Actual occupant load for each exit door
 Assumed and real property line locations (if not on site plan) A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Exterior wall opening area with respect to distance to assumed property lines (705.8) Location of doors with panic hardware (1010.1.10)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Occupant loads for each area Location of doors with electromagnetic egress locks (1010.1.9.9)
 Exit sign locations (1013) Location of doors equipped with hold-open devices
 Exit access travel distances (1017) Location of emergency escape windows (1030)
 Common path of travel distances (1006.2.1 & 1006.3.2(f)) The square footage of each fire area (202)
 Dead end lengths (1020.4) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Clear exit widths for each exit door Note any code exceptions or table notes that may have been utilized regarding the items above
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

ACCESSIBLE DWELLING UNITS: (Section 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING REQUIREMENTS: (Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 13' ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS: Chapter 29 (Table 2902.1)

SEE FIXTURE CALCULATIONS ON SHEET A-8

USE	EXISTG REQ'D	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS / TUBS		DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE			
1ST FLR		1	1		1	1				0	0	0	0	
NEW REQ'D		1	1		1	1				0	0	0	0	

SPECIAL APPROVAL: Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc. describe below)

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)

Exempt Building: No Yes (Provide code or statutory reference)

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 If "Other" specify source here: _____

THERMAL ENVELOPE (Prescriptive method only):

Roof/Ceiling Assembly (each assembly)
 Description of assembly: PROVIDE NEW ROOF AND INSULATION
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly:
 U-Value of skylight: _____
 Total square footage of skylight in each assembly: _____

Exterior Walls (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing)
 U-Value of assembly: MAX .45
 Solar heat gain coefficient: MAX .25
 Projection factor: _____
 Door R-Value: _____

Walls Below Grade (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____

Floors slab on grade

Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/vertical requirement: _____
 Slab heated: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)**

DESIGNS LOADS:

SEE STRUCTURAL

Importance Factors: Snow (I_s) .80 1.0 1.1 1.2
 Seismic (I_e) 1.0 1.25 1.5
 Live Loads: Roof (live & snow) _____ (psf)
 Mezzanine _____ (psf)
 Floor _____ (psf)
 Ground Snow Load: _____ (psf)
 Wind Load: Basic Wind Speed _____ (mph ASCE 7)
 Exposure Category B C D

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) I II III IV
 Spectral Response Acceleration S_s _____ %g S₁ _____ %g
 Site Classification (ASCE 7) A B C D E F
 Data Source: Field Test Presumptive Historical Data

Basic Structural System: (check one)

Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Analysis Procedure: Simplified Modal Equivalent Lateral Force
 Architectural, Mechanical, Components Anchored? Yes No
 Lateral Design Control: Earthquake Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ (psf)
 Presumptive Bearing Capacity _____ (psf)
 Pile Size, Type, and Capacity _____ (psf)

SOIL BEARING CAPACITIES: Yes No

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

SEE MECHANICAL

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
 winter dry bulb: _____
 summer dry bulb: _____

Interior Design Conditions
 winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____

Building heating load: _____
Building cooling load: _____

Mechanical Spacing Conditioning System
 Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 Size category. If oversized, state reason: _____
 Chiller
 Size category. If oversized, state reason: _____

List equipment efficiencies: _____

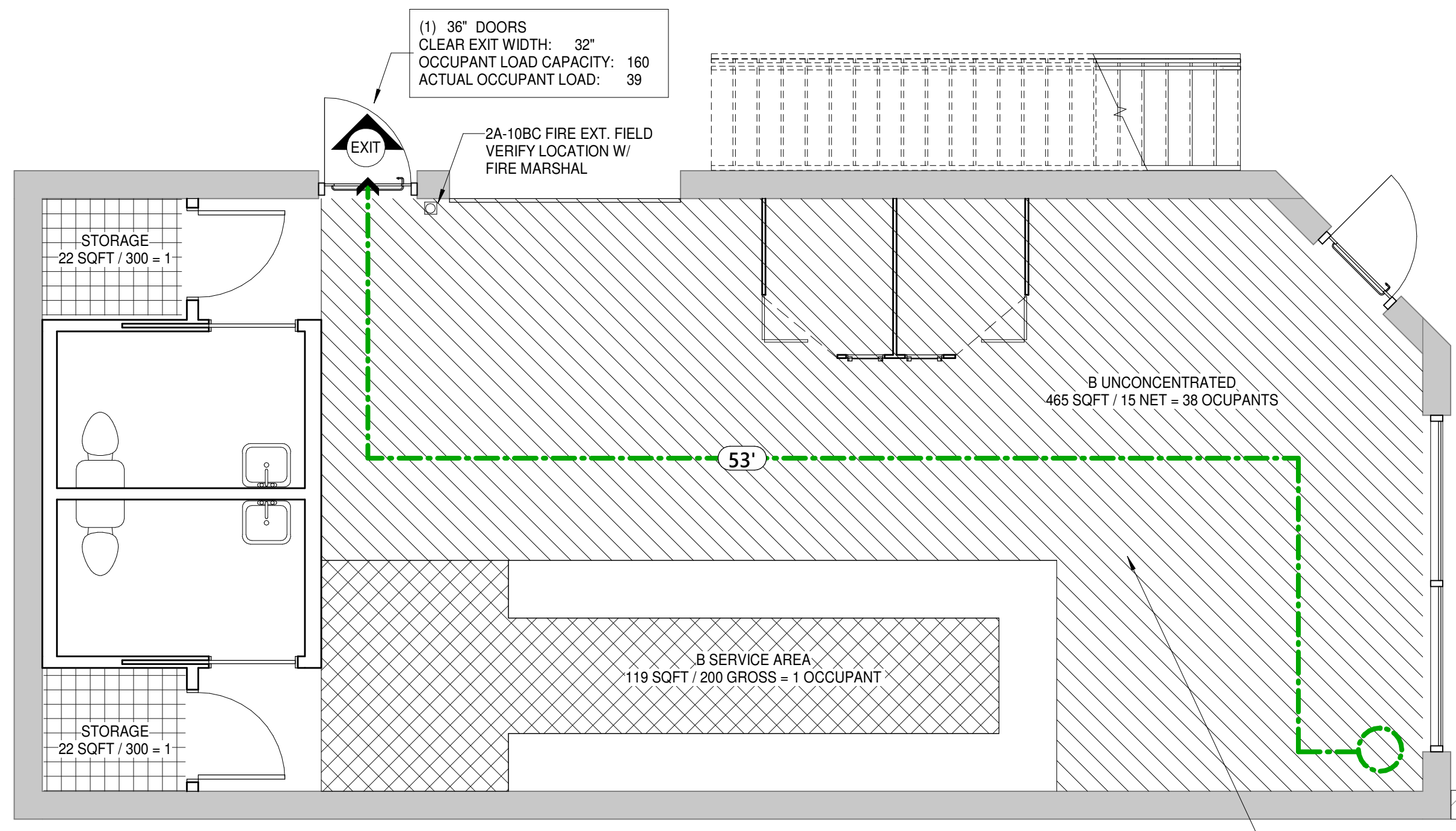
**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)**

SEE ELECTRICAL

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: _____
Lighting schedule (each fixture type)
 lamp type required in fixture; number of lamps in fixture; ballast type used in the fixture; number of ballast in fixture; total wattage per fixture; total interior wattage specified vs. allowed (whole building or space by space); total exterior wattage specified vs. allowed
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient HVAC Equipment Performance
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.

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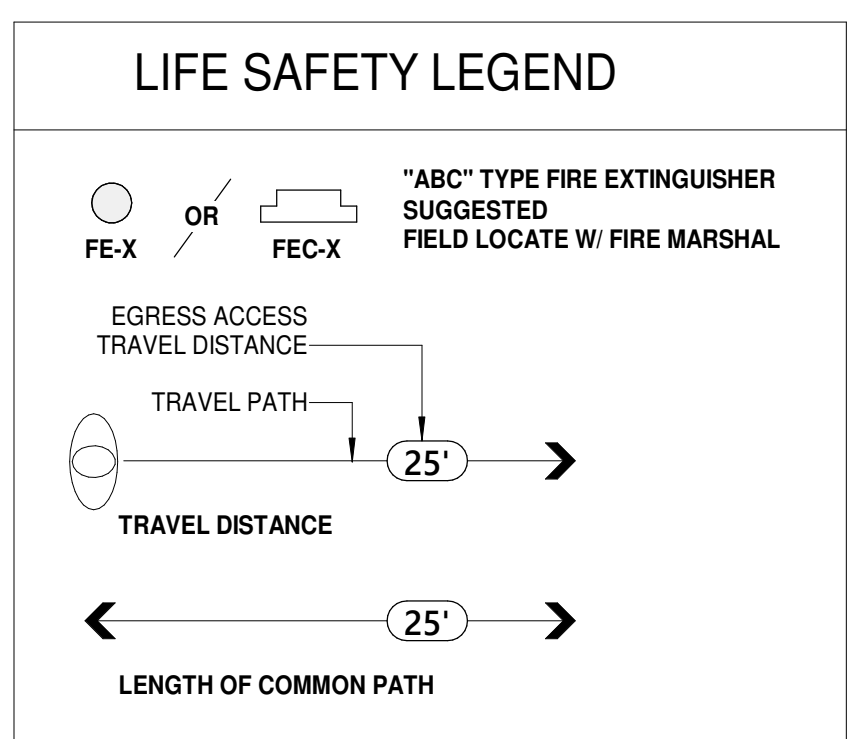


4 FIRST FLOOR LIFE SAFETY PLAN
1/4" = 1'-0"

TOTAL OCCUPANTS: 39 PERSONS

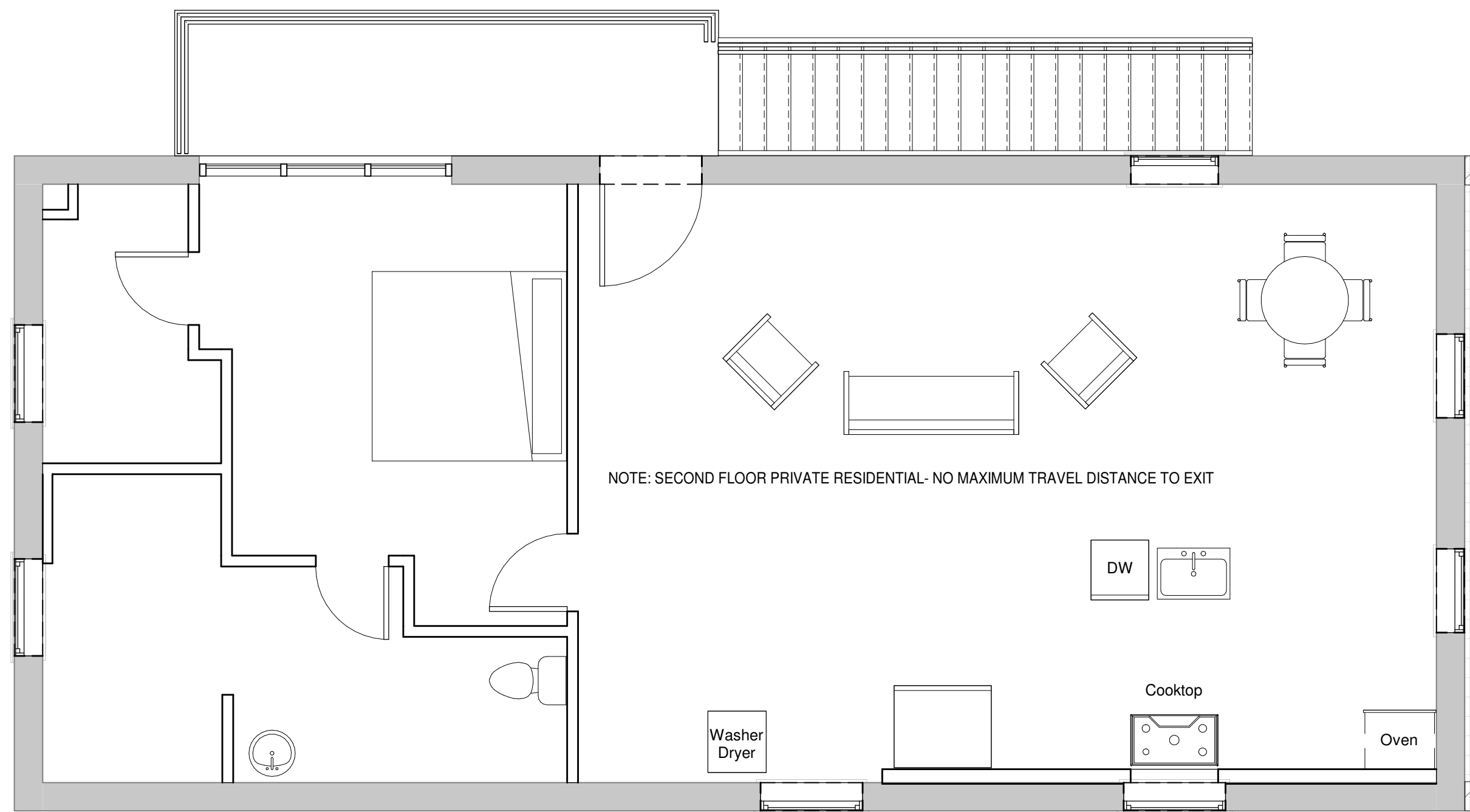
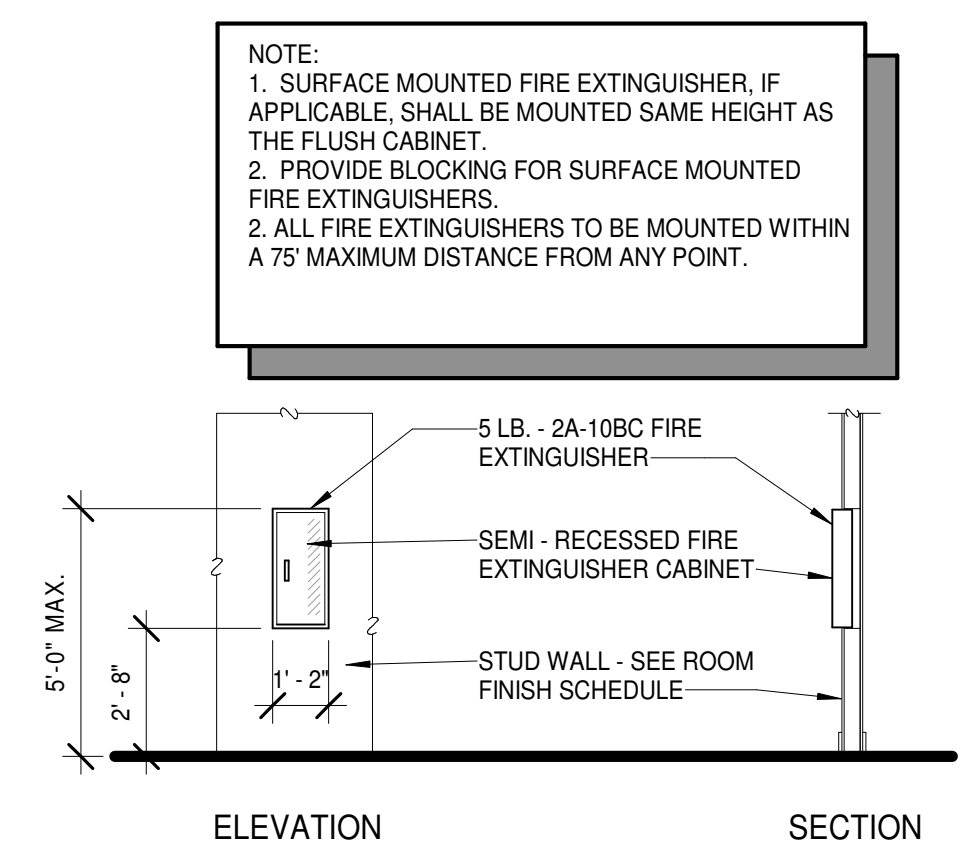
NOTE: NC BUILDING CODE - 303.1.1 SMALL BUILDINGS AND TENANT SPACES: A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

NOTE: 1 HOUR RATED CEILING - UL L501 - SEE SHEET A-0.3

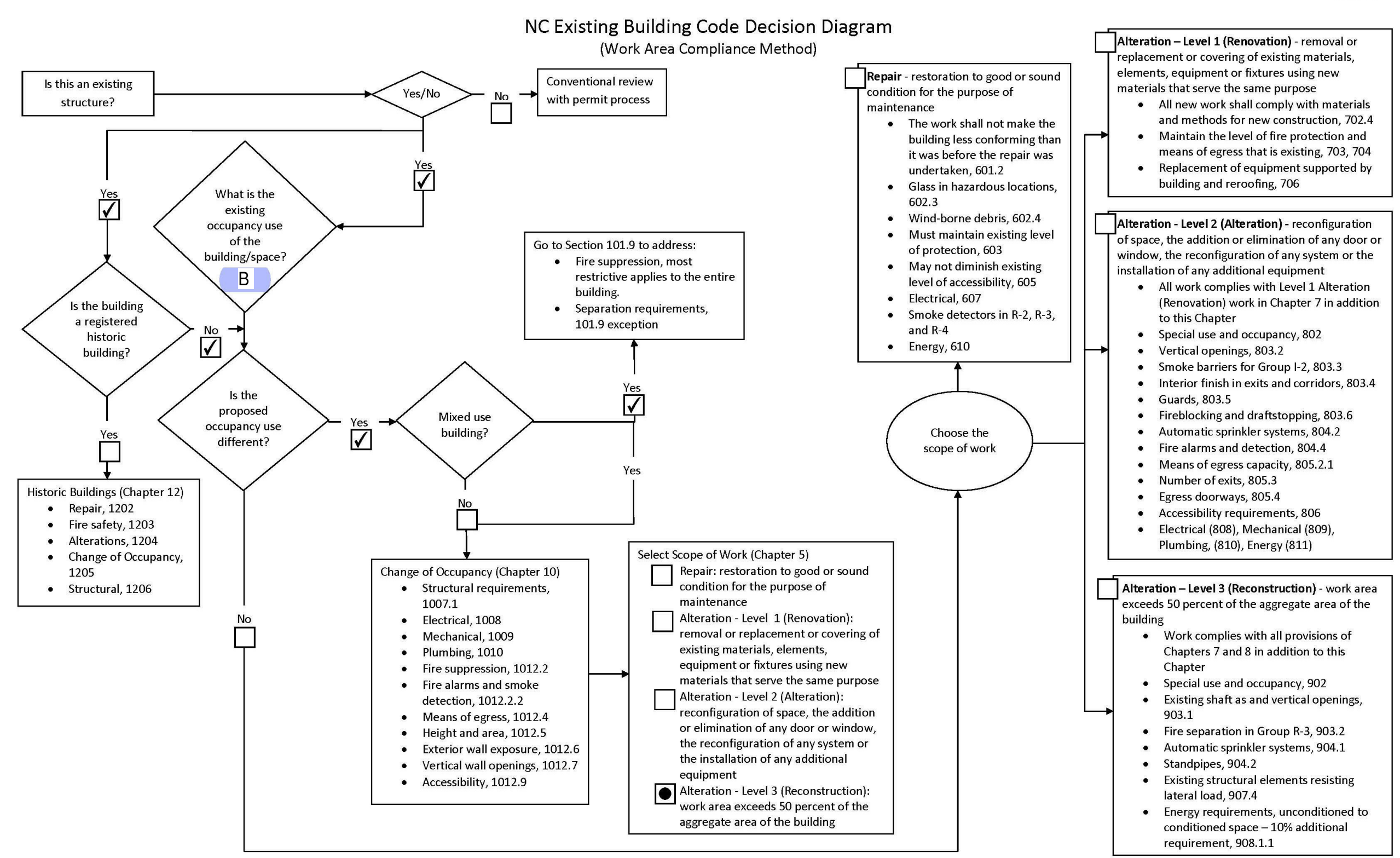


Floor, Room or Space	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE (Feet)	
	Required (Table - 1006.3.1)	Shown on Plans	Allowable Travel Distance (Table - 1017.2)	Actual Travel Distance Shown on Plans
LEVEL 1	1	1	75'	52'

Notes
 1. Corridor dead ends (section 1020.4)
 2. Building with single exits (Tables 1006.2.1). Spaces with one means of egress (Table - 1009.1)
 3. Exit access travel distance (Section 1017.2)



5 SECOND FLOOR LIFE SAFETY PLAN
1/4" = 1'-0"



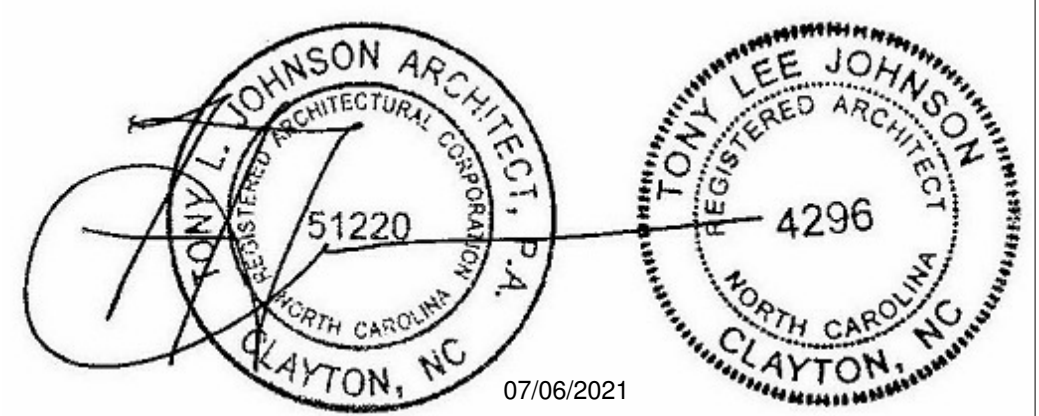
REVISIONS	
NUMBER	DATE

31 WEST FRONT BUILDING
RENOVATION
31 WEST FRONT STREET, LILLINGTON, NC

919-559-7717
Tony@tonyjohnsonarchitect.com
104 North Lumbard St
Clayton, NC 27520
Tony.johnson@architect.com



ISSUE DATE	07/06/2021
PROJECT #	2020-137
LIFE SAFETY PLAN	
SHEET	A-0.2



UL-L501 - FLOOR ASSEMBLY

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UL Product IQ™

BXUV.L501

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

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

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. L501

August 31, 2020

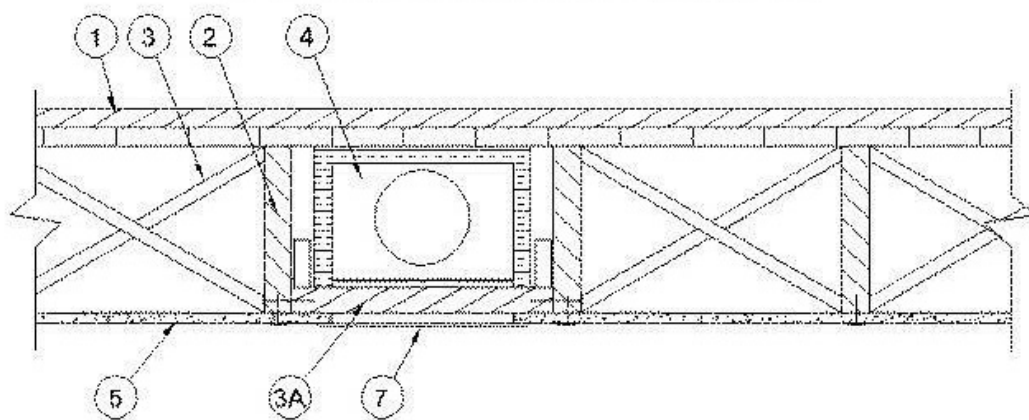
Unrestrained Assembly Rating — 1 Hr. Finish Rating — (See Items 5 and 5A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7.

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



1. **Flooring Systems** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 2

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.020 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVEROCK® Brand Sound Reduction Board, LEVEROCK® Brand Floor Underlayment SR4-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.

GLASSWORK L L C — SC Types†

Finish Flooring — Floor Topping Mixture* — Min 3/4 having a min compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for

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specific mix design.

UNITED STATES GYPSUM CO — Type CSD, LRK, HSLRK

LATICRETE SUPERCAP L L C — Types LRK, HSLRK

USG MEXICO S A D E C V — Types LRK, HSLRK, CSD

System No. 3

Subflooring — Min 19/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor topping mixture. Floor topping thickness a min 1 in. over the floor mat.

HACKER INDUSTRIES INC — Type Hacker Sound Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Quil 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (33 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Quil 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Quil 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 19 cu ft of sand.

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HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4015, Firm-Fill High Strength, Gyp-Span Radiant

System No. 4

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTZELL CORP OF AMERICA — Type FF

System No. 5

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AERIX INDUSTRIES — Floor Topping Mixture

System No. 6

Deleted.

System No. 7

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 8

Subflooring — Min 15/32 in. wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

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Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement — (Optional) — Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional, Not Shown) — 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

System No. 9

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Flooring — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 10

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ACG MATERIALS — Accu-Crete II types NeoGen, Green, Prime, B, M, and PrePur; Accu-Radiant; Accu-Level types G40, G50 and SD30.

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in. or 1 in. thick for 19/32 or 15/32 in. thick wood structural panels respectively.

ACG MATERIALS — AccuQuiet P80, C40, D13, D-18, D25, DX08, EM125, BM125S, EM250, BM250S, EM375, BM375S, EM750, and EM750S.

System No. 11

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

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Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix.

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2.

System No. 12

Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCO) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 55/025 and Quiet Quil 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 52/013 and Quiet Quil 52/013 N

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Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 14

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered 4 ft. Panels secured to joists with construction adhesive and Nom. 6d ringed shank nails spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Encapsulated Sound Mat.

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 15

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture for min 15/32 in. thick wood structural panels, having a min compressive strength of 2150 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAPEI CORP — Type Planitex SL 35

System No. 16

Subflooring — Min 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

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Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture for 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

THE STRONG CO INC — Type UltraLevel.

System No. 17

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSI M5.4, GSI K2.6, GSI CSD and GSI RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 55/025 and Quiet Quil 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 60/040 and Quiet Quil 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 65/075, Quiet Quil 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Quil 52/013 and Quiet Quil 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Quil 55/025 MT and Quiet Quil 55/025 N MT

System No. 18

Subflooring — Structural Cement-Fiber Units* — Nominal 19 mm (3/4 in.) thick tongue and groove structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with #10 self-drilling, self-tapping cement board screws 1-3/4 in. long. Screws shall be spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.

ECTEK INTERNATIONAL INC — Amrock Panel

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Subflooring (Alternate) — Building Units* — Nom 3/4 in. thick, tongue and groove boards. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft, and centered over the trusses. Boards secured to trusses with 1-1/4 in. long self-drilling, self-tapping screws spaced a max of 12 in. OC in the field with screws located 1 in. from long edge, and max 8 in. OC along the end joints with screws located 1/2 in. from end joint.

ECTEK INTERNATIONAL INC — Type MegaBoard

Vapor Barrier — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber installed perpendicular to joists, or min 19/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.

System No. 19

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Finish Flooring* — **Floor Topping Materials** — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.

See Floor- and Roof-Topping Mixtures (CCO) category for names of Classified Companies.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-Flo CSM (Crack Suppression Mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.

WALFORD INDUSTRIES INC — Type Acousti-Flo, Acousti-Flo CSM. Floor topping thickness depends on products used as follows:

Acousti-flo (1/8 in. thick) — Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flo (1/4 in. thick) — Floor topping thickness shall be a minimum of 1 in.

Acousti-flo (3/8 in. thick) — Floor topping thickness shall be a minimum of 1-1/2 in.

Acousti-flo (3/4 in. thick) — Floor topping thickness shall be a minimum of 1-1/2 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

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Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIBA DEUTSCHLAND GMBH — Type SCHONCK AP Rapid Plus

System No. 21

Subflooring - Building Units* — Nom. 1 1/2 in. thick, T & G laminated composite plywood sub-floor panels to be perpendicular to the trusses with end joints staggered 4 ft. End joints centered over top chord of trusses. Subfloor panels secured to trusses with construction adhesive and #8 by 3 in. wood screws spaced 12 in. OC in the field and 6 in. OC at the end joints.
RSP INDUSTRIES INC — SAP board

System No. 22

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick plywood or min 7/16 in. thick oriented strand board (OSB) wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panel to be perpendicular to joists with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies.

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non woven glass fiber mesh grid loose laid over floor mat material.

2. **Wood Joists** — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.

3. **Cross Bridging** — Min 1 by 3 in. or min 2 by 10 solid blocking.

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3A. Horizontal Bridging — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.

4. **Ceiling Damper* — (Optional)** — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16 1/2 in. long. Max height of damper shall be 9 3/8 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturer's installation instructions provided with the damper. A steel grille (Item 7) shall be installed in accordance with installation instructions.
AIR BALANCE INC — Type 299 (See Item 5A)

AIR KING VENTILATION PRODUCTS — Series FRAS, Series FRAK, Series FRAKV

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(A), C-RD-HC(A)

GREENHECK FAN CORP — Model CRD-1WJ

METAL-FAB INC — Models MSCDHC, MKCDHC

METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

BRISK MFG INC — Model BMI-50-CRD-S/R-WT

PRICE INDUSTRIES LTD — Models CD-S/R-HC, CD-RD-HC

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(A), C-RD-HC(A)

5. **Gypsum Board*** — — Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long, 6d cement coated nails spaced 6 in. OC.
AMERICAN GYPSUM CO — Types AGX-1, AG-C, Lightloc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING LLC — Type X, S/R Type X, Type Blueglass Exterior Sheathing

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CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1

CGC INC — Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC6A, LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 9, C, GPF51, GPF56, DA, DAP, DAPC, DGG, DS, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing Type X, Soffit-Type X, TG-C, GreenGlass Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type LWX (finish rating 22 min), Type LWXZ (finish rating 20 min), Veneer Plaster Base-Type LWXZ (finish rating 20 min), Water Rated-Type LWXZ (finish rating 20 min), Sheathing-Type LWXZ (finish rating 20 min), Soffit-Type LWXZ (finish rating 20 min)

NATIONAL GYPSUM CO — exp-C, FSK-C, FSK-G, FSL, FSMR-C, FSW-2, FSW-3, FSW-C, FSW-G, FSW-8

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR or WR

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-3, PG-4, PG-5, PG-6, PG-9, PG-C, PG-11, PG5-WRS (Finish Rating 21 minutes), Type PG1 (Finish Rating 26 minutes)

PANEL REV S A — Types PRC, PRC2

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type C, Type X

UNITED STATES GYPSUM CO — Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, WRX

5A. **Gypsum Board*** — (Finish Rating - 16 min) Required when Air Balance Inc. Type 299 ceiling damper (Item 4) is installed. Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long, 6d cement coated nails spaced 6 in. OC with the first nails located 1/2 in. and 3 in. from the board edges.
UNITED STATES GYPSUM CO — Type C

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USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Type C

5B. **Gypsum Board*** — Nom 3/4 in. thick, 48 in. wide gypsum board, installed as described in Item 5 with nails length increased to 2 in.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13

5C. **Gypsum Board* (As an alternative to Item 5)** — Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long Type S screws spaced 6 in. OC.
UNITED STATES GYPSUM CO — ULIX

5D. **Gypsum Board* (As an alternative to Item 5A)** — Required when Air Balance Inc. Type 299 ceiling damper (Item 4) is installed. Nom 5/8 in. thick, 48 in. wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1-7/8 in. long Type S screws spaced 6 in. OC with the first screws located 1/2 in. and 3 in. from the board edges.
UNITED STATES GYPSUM CO — ULIX

6. **Finishing System — (Not Shown)** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

7. **Grille** — Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

8. **Steel Corner Fasteners** — (Optional, Not Shown) — Used to attach ends of gypsum board at wall intersection where joists run parallel to wall. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galvanized steel. Fasteners nailed to face of wall bearing plate through fastener tab with one No. 6d cement coated nail, spaced not greater than 16 in. OC and 2 in. from edge of gypsum board. Fasteners covered with gypsum board facing applied to intersecting wall.

9. **Discrete Products Installed in Air-handling Spaces*** — Automatic Balancing Valve/Damper — (Not Shown - Optional) — For use with Item 4, Ruskin Company's Model CFD7 damper (CABS). Ceiling damper to be provided with plenum box per damper manufacturer's instructions with side outlet only. Entire assembly to be installed into any UL Class 0 or Class 1 flexible air duct in accordance with the instructions provided by the automatic balancing valve/damper manufacturer.
METAL INDUSTRIES INC — Model ABV-4, ABV-5, ABV-6

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

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REVISIONS

NUMBER	DATE

31 WEST FRONT BUILDING
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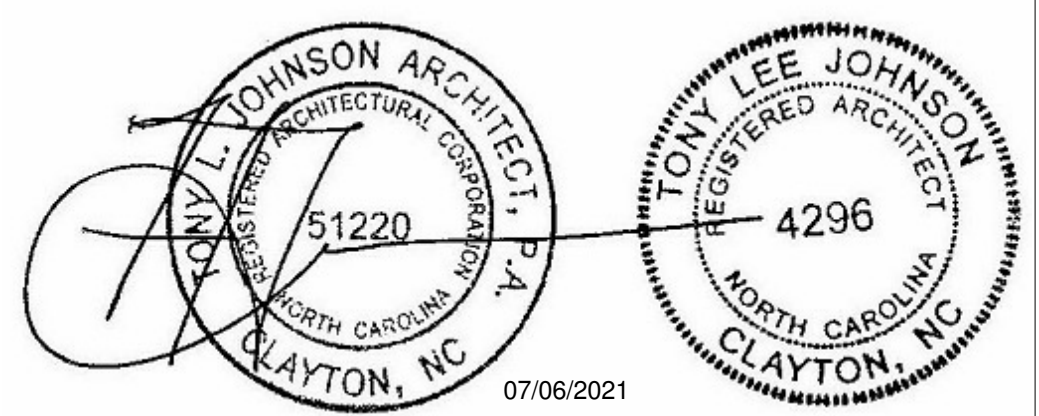
ISSUE DATE 07/06/2021

PROJECT # 2020-137

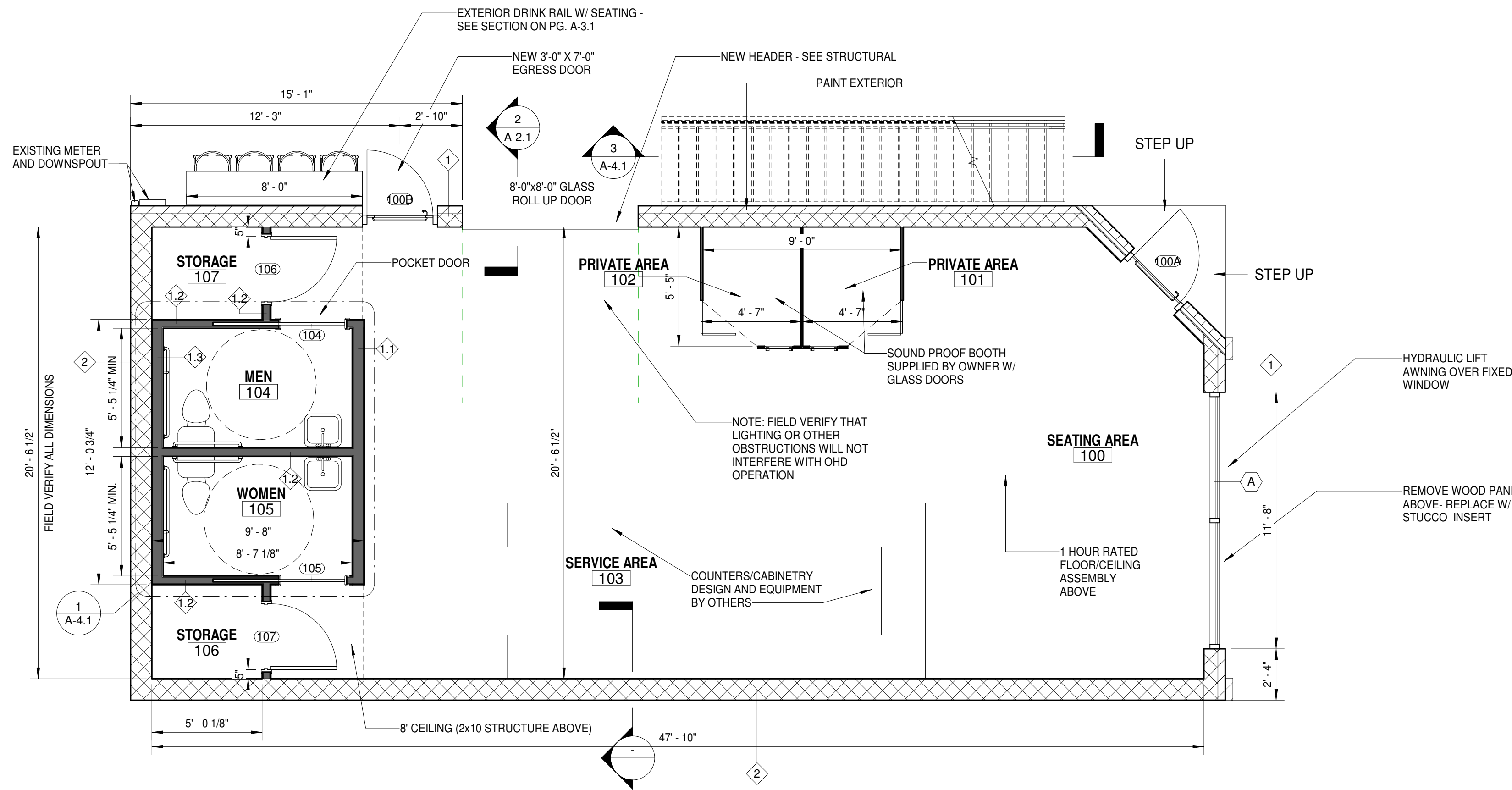
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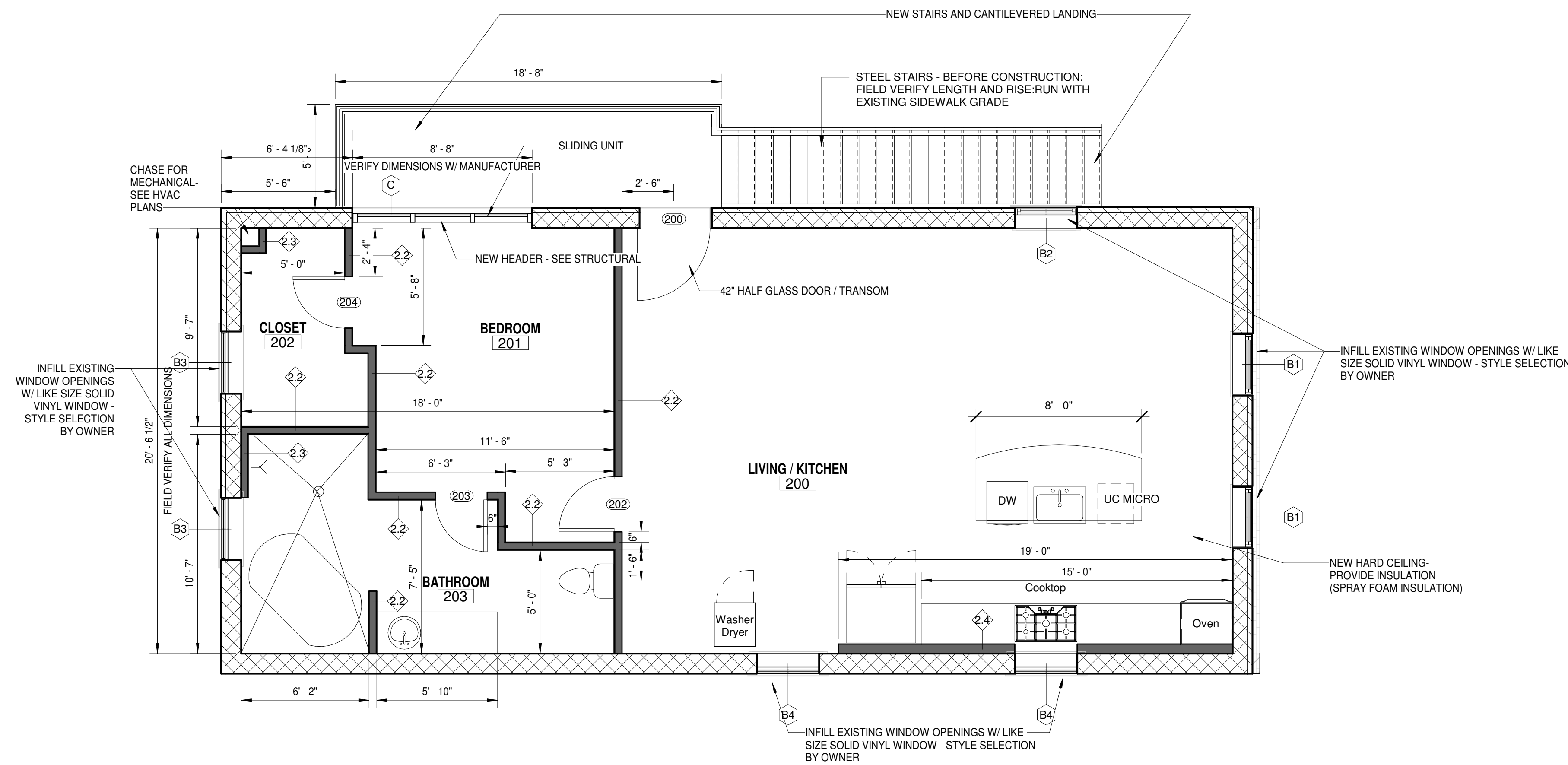


1 FIRST FLOOR PLAN
 1/4" = 1'-0"

WALL TYPES

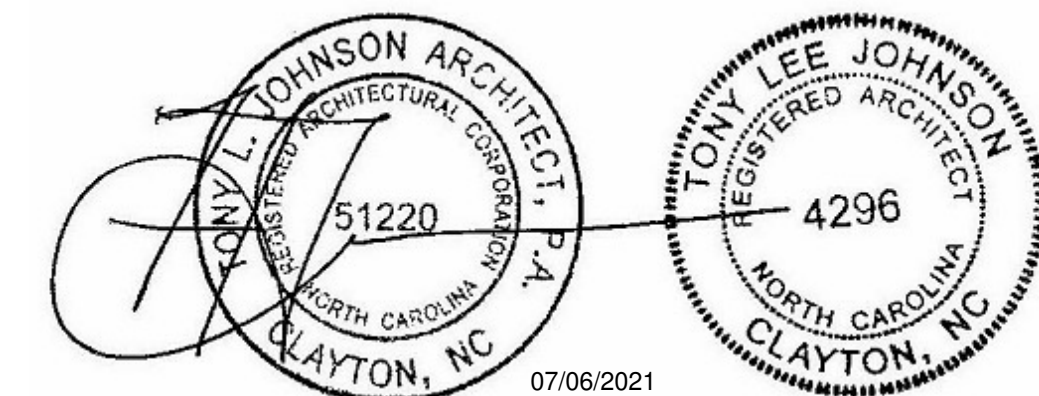
	0.1	EXISTING EXTERIOR BRICK VENEER WALL - SEE DEMOLITION, FLOOR PLAN, AND ELEVATIONS FOR LOCATIONS OF NEW FENESTRATION OR INFILL OF EXISTING OPENINGS. SEE STRUCTURAL FOR LINTELS AS REQUIRED AT NEW OPENINGS. MATCH EXISTING AT INFILLED OPENINGS.
	0.2	EXISTING EXTERIOR BRICK VENEER WALL - SEE DEMOLITION, FLOOR PLAN, AND ELEVATIONS FOR LOCATIONS OF NEW FENESTRATION OR INFILL OF EXISTING OPENINGS. SEE STRUCTURAL FOR LINTELS AS REQUIRED AT NEW OPENINGS. MATCH EXISTING AT INFILLED OPENINGS.
	1.1	INTERIOR - 2x6 WOOD STUDS @ 16" OC TO CEILING. 5/8" GYPSUM WALL BOARD BOTH SIDES, SOUND BATT INSULATION.
	1.2	INTERIOR - 2x4 WOOD STUDS @ 16" OC TO CEILING. 5/8" GYPSUM WALL BOARD BOTH SIDES, SOUND BATT INSULATION.
	1.3	INTERIOR - 2x6 TREATED WOOD STUD FURRING @ 16" OC OVER EXISTING CMU TO CEILING. 5/8" GYPSUM WALL BOARD INSIDE FACE, BATT INSULATION.
	2.1	INTERIOR - 2x6 WOOD STUDS @ 16" OC TO CEILING. 1/2" GYPSUM WALL BOARD BOTH SIDES, SOUND BATT INSULATION.
	2.2	INTERIOR - 2x4 STUDS @ 16" OC TO CEILING. 1/2" GYPSUM WALL BOARD BOTH SIDES, SOUND BATT INSULATION.
	2.3	INTERIOR - 2x4 TREATED WOOD STUD FURRING @ 16" OC OVER EXISTING CMU TO CEILING. 1/2" GYPSUM WALL BOARD INSIDE FACE, BATT INSULATION.
	2.4	INTERIOR - 2x6 TREATED WOOD STUD FURRING @ 16" OC OVER EXISTING CMU TO CEILING. 1/2" GYPSUM WALL BOARD INSIDE FACE, BATT INSULATION.

WALL LEGEND
 1/4" = 1'-0"



2 SECOND FLOOR PLAN
 1/4" = 1'-0"

NOTE: ALL DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION - CONTACT ARCHITECT IF ANY VARIATIONS ARE FOUND



REVISIONS	
NUMBER	DATE
1	1/14/2021

**31 WEST FRONT BUILDING
 RENOVATION**

31 WEST FRONT STREET, LILLINGTON, NC

919-559-7717
 Tony@TonyJohnsonArchitect.com
 104 North Lombard St
 Clayton, NC 27520
 TonyJohnsonArchitect.com



ISSUE DATE	07/06/2021
PROJECT #	2020-137
FLOOR PLANS	
SHEET	

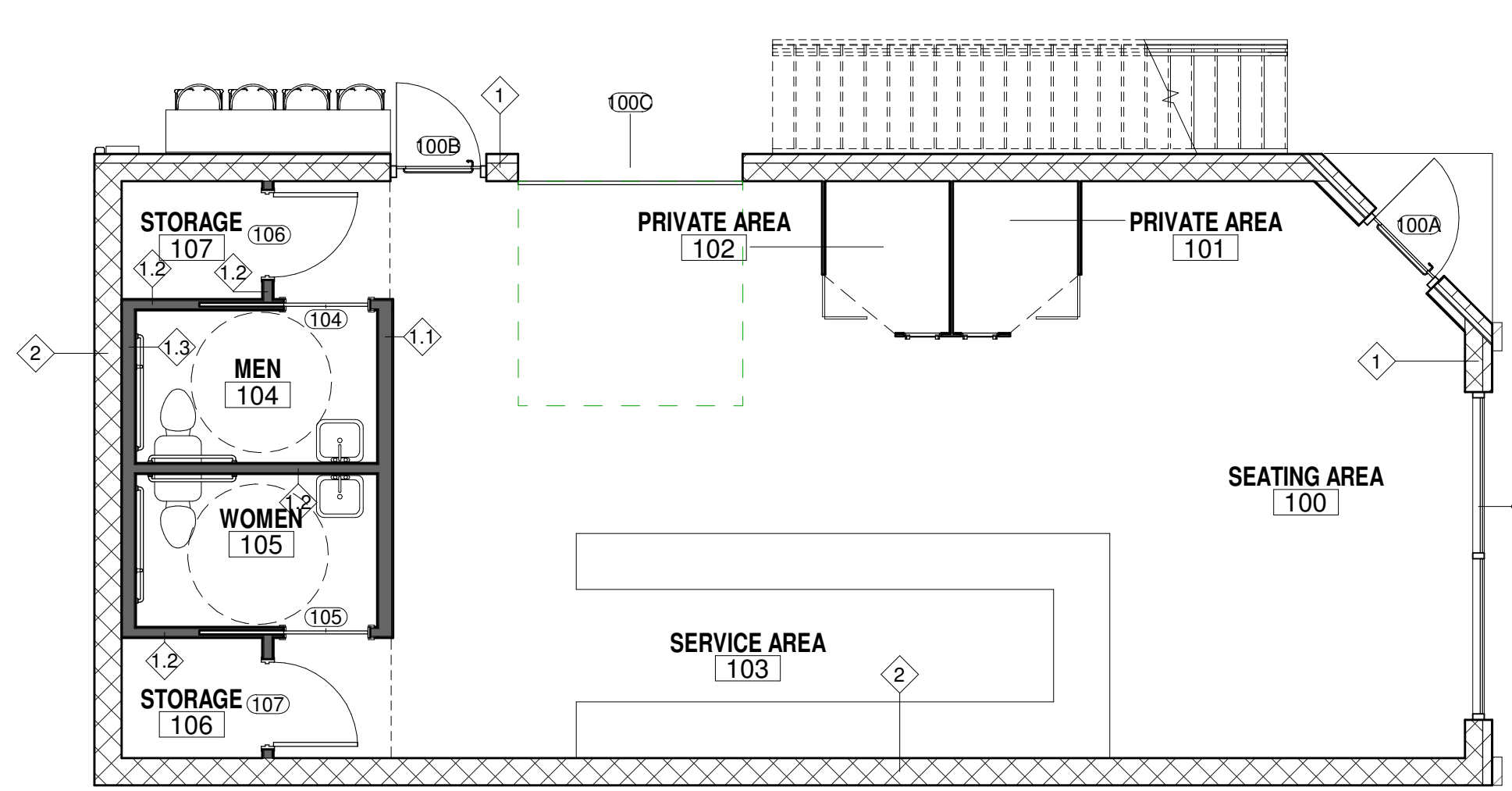
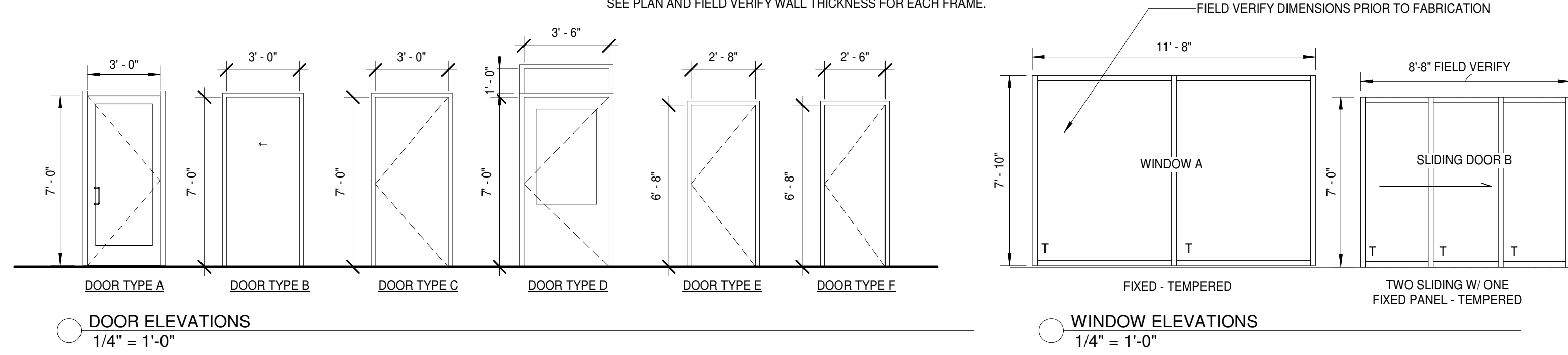
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DOOR SCHEDULE

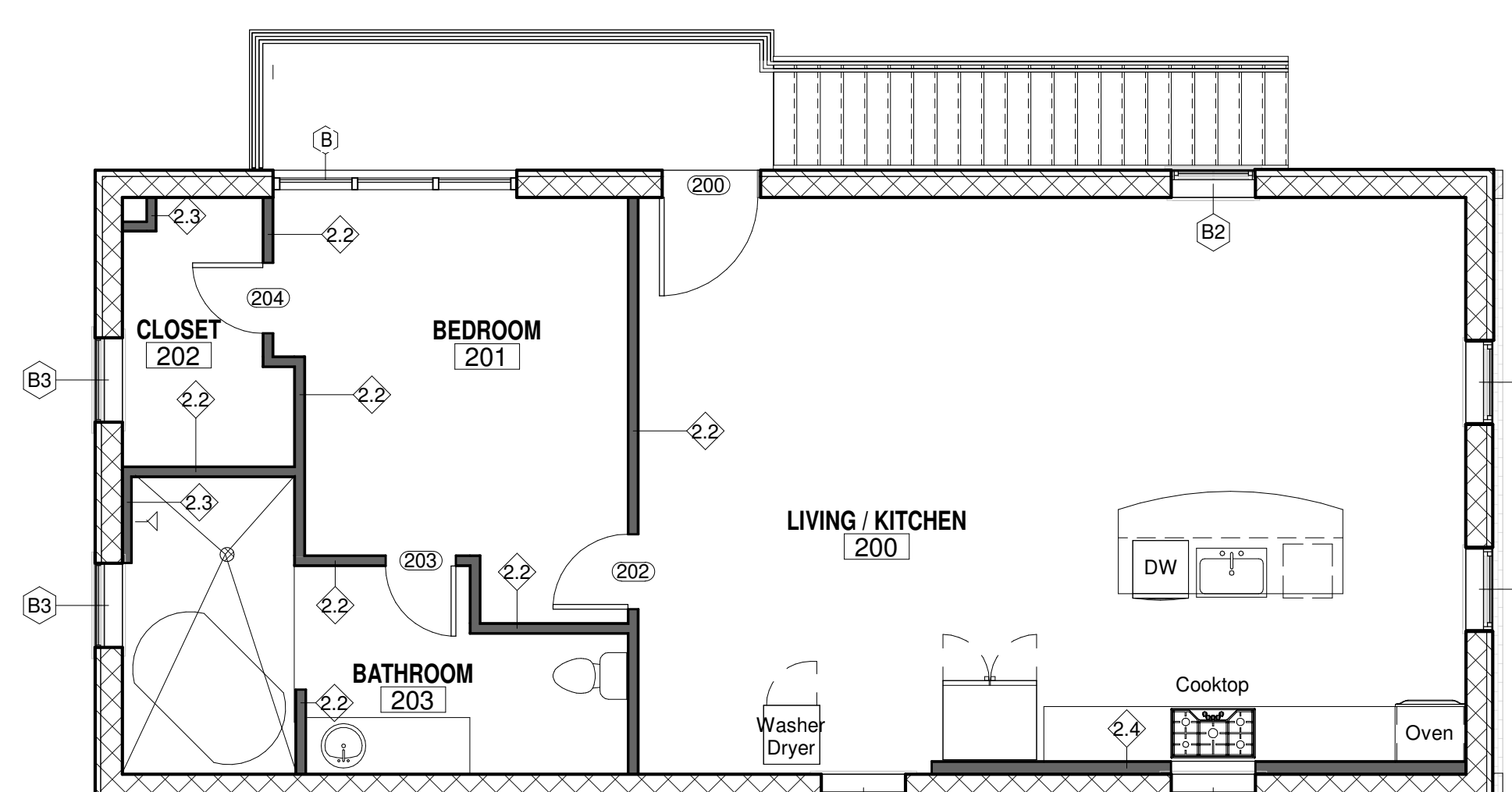
MARK	WIDTH	HEIGHT	ELEVATION	DESCRIPTION	DOOR			CLOSER	HARDWARE	FIRE RATING	COMMENTS
					FINISH	FRAME	FRAME FINISH				
100A	3'-0"	7'-0"	A	STOREFRONT	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	YES	PUSH/PULL		
100B	3'-0"	7'-0"	A	STOREFRONT	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	YES	PUSH/PULL		
100C	8'-0"	8'-0"	--	OHD	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	---		
104	3'-0"	7'-0"	B	POCKET DOOR	SOLID CORE WOOD	SELECTION BY OWNER	SELECTION BY OWNER	NO	ACCESSIBLE POCKET DOOR - SEE SHEET A-4		POCKET DOOR MUST BE SOLID CORE WOOD
105	3'-0"	7'-0"	B	POCKET DOOR	SOLID CORE WOOD	SELECTION BY OWNER	SELECTION BY OWNER	NO	ACCESSIBLE POCKET DOOR - SEE SHEET A-4		POCKET DOOR MUST BE SOLID CORE WOOD
106	3'-0"	7'-0"	C		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	LEVER HANDLE		
107	3'-0"	7'-0"	C		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	LEVER HANDLE		
200	3'-6"	7'-0"	D		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	SELECTION BY OWNER		
202	2'-8"	6'-8"	E		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	SELECTION BY OWNER		
203	2'-6"	6'-8"	F		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	SELECTION BY OWNER		
204	2'-6"	6'-8"	F		SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	NO	SELECTION BY OWNER		

DOOR NOTES:
SEE PLAN FOR HANDLING OF DOORS.

FRAME NOTES:
HOLLOW METAL FRAMES TO BE WELDED.
SEE PLAN AND FIELD VERIFY WALL THICKNESS FOR EACH FRAME.



4 FIRST FLOOR PLAN-LEGEND
3/16" = 1'-0"



5 SECOND FLOOR PLAN LEGEND
3/16" = 1'-0"

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
100	SEATING AREA	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	PAINT	EXISTING	
101	PRIVATE AREA	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	PAINT	EXISTING	
102	PRIVATE AREA	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	PAINT	EXISTING	
103	SERVICE AREA	SELECTION BY OWNER	SELECTION BY OWNER	FRP	PAINT	EXISTING	
104	MEN	SELECTION BY OWNER	SELECTION BY OWNER	EPOXY PAINT	PAINT	EXISTING	
105	WOMEN	SELECTION BY OWNER	SELECTION BY OWNER	EPOXY PAINT	PAINT	EXISTING	
106	STORAGE	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	PAINT	EXISTING	
107	STORAGE	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	PAINT	EXISTING	
200	LIVING / KITCHEN	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	EXISTING	
201	BEDROOM	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	EXISTING	
203	BATHROOM	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	EXISTING	
202	CLOSET	SELECTION BY OWNER	SELECTION BY OWNER	SELECTION BY OWNER	PAINT	EXISTING	

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	TYPE	MANUFACTURER	MATERIAL	FINISH	SILL	HEAD	Comments
A	5'-10"	7'-8"	FIXED	SELECTION BY OTHERS	ALUMINUM STOREFRONT	SELECTION BY OWNER	0'-0"	8'-8"	
B1	2'-10 1/2"	6'-3 1/2"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	2'-2"	8'-5 1/2"	
B2	3'-0"	6'-3 1/2"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	1'-9"	8'-0 1/2"	
B3	3'-4"	6'-7"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	1'-8"	8'-3"	
B3	3'-4"	6'-7"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	1'-8"	8'-3"	
B4	3'-6"	6'-7"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	2'-9 1/2"	9'-4 1/2"	
B4	3'-6"	6'-7"	DOUBLE-HUNG	SELECTION BY OTHERS	SOLID VINYL	SELECTION BY OWNER	2'-9 1/2"	9'-4 1/2"	
C	8'-8"	7'-0"	SLIDING	SELECTION BY OTHERS	SELECTION BY OWNER	SELECTION BY OWNER	0'-0"	8'-0"	

FIELD VERIFY ALL WINDOW OPENINGS PRIOR TO ORDERING OR FABRICATING WINDOWS

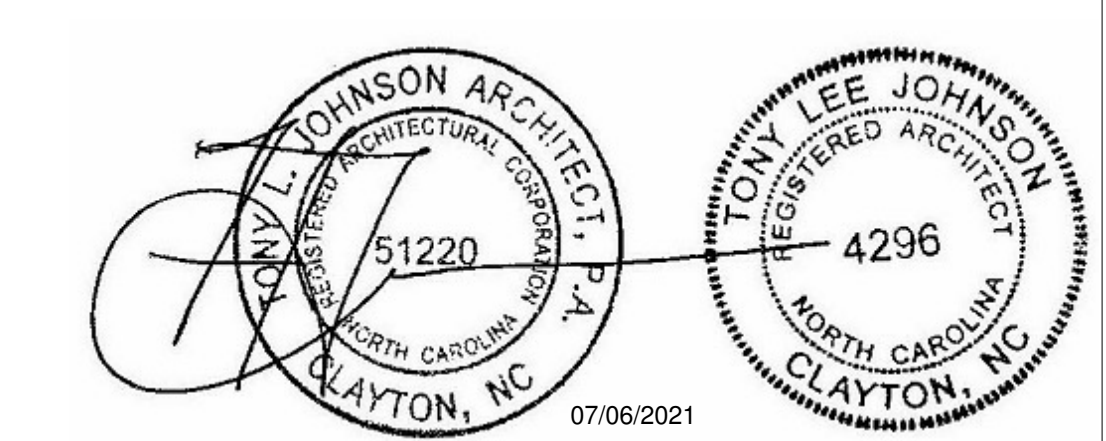
REVISIONS	
NUMBER	DATE

31 WEST FRONT BUILDING
RENOVATION
31 WEST FRONT STREET, LILLINGTON, NC

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ISSUE DATE	07/06/2021
PROJECT #	2020-137
SCHEDULES	
SHEET	A-1.2



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1069 Series ADA Pocket Door Pull



1069L SHOWN IN LOCKED POSITION

The Trimco 1069 Series pocket door pulls are uniquely designed to meet American with Disabilities Act (ADA) requirements for pocket door applications. With a Contemporary design and stylish black nylon handles the 1069 Series is built for the most demanding applications while remaining aesthetically pleasing. The 1069 Series is available in multiple functions and is fully customizable for most pocket door applications.

- APPLICATIONS**
- Hospitals
 - Senior Living
 - Hotels & Hospitality
 - Schools
 - Offices
- FUNCTIONS**
- 1069 - Passage
 - 1069L - Latching (non-locking)
 - 1069FP - Full Privacy

3528 EMERY STREET LOS ANGELES, CA 90023 | (323) 262-4191 | WWW.TRIMCOHARDWARE.COM | INFO@TRIMCOHARDWARE.COM

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CS-1069-001

POCKET DOOR LOCKS & PULLS

PRODUCT FEATURES

- Complete pocket door ADA solution
- Multiple functions for different applications
- Exterior emergency access on Full Privacy
- Customizable product

SPECIFICATIONS

DOORS
1-3/8" and 1-3/4" doors standard. Custom options available.

FRAMES
Up to 7" standard. Custom options available.

MATERIAL OPTIONS
BR - Brass
BZ - Bronze
SS - Stainless Steel

FINISHES

- 499 Polished Brass, No Lacquer
- 605 Polished Brass
- 606 Satin Brass, Dull
- 609 Satin Brass and Black
- 610 Satin Brass, Black Relieved
- 611 Polished Bronze
- 612 Satin Bronze
- 613 Oil Rubbed Bronze
- 616 Satin Bronze, Black Relieved
- 619 Satin Nickel Plated, Clear
- 629 Polished Stainless Steel
- 630 Satin Stainless Steel



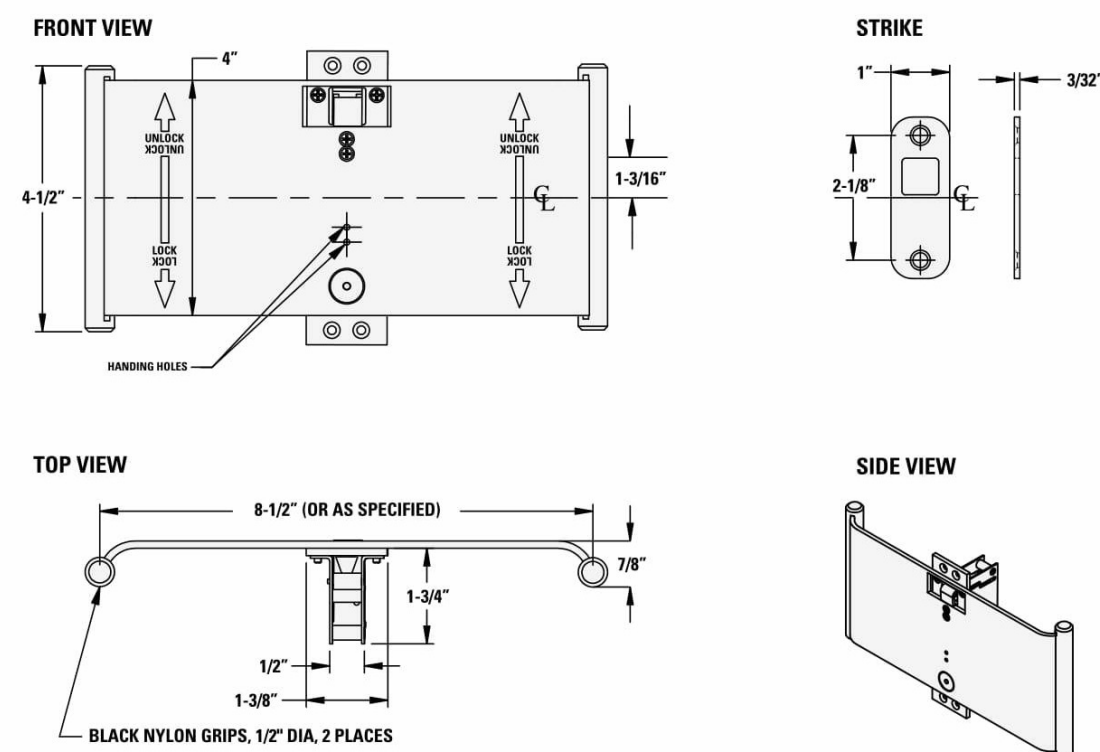
1069 Series ADA Pocket Door Pull

HOW TO SPECIFY & ORDER

CHOOSE THE FOLLOWING

SERIES	OPTIONS	HANDING - FULL PRIVACY ONLY	FINISHES
<ul style="list-style-type: none"> 1069 Passage 1069HA Latching (non-locking) 1069FP Full Privacy 	<ul style="list-style-type: none"> CUST - Custom Size / Application 	<ul style="list-style-type: none"> RH - Right Hand LH - Left Hand 	<ul style="list-style-type: none"> 605 Polished Brass 613 Oil Rubbed Bronze 630 Satin Stainless Steel SPEC - Special Finish (See finish list for all options)

EXAMPLE
For a right hand ADA full privacy locking pocket door pull in stainless steel, specify or order: 1069FP RH 630

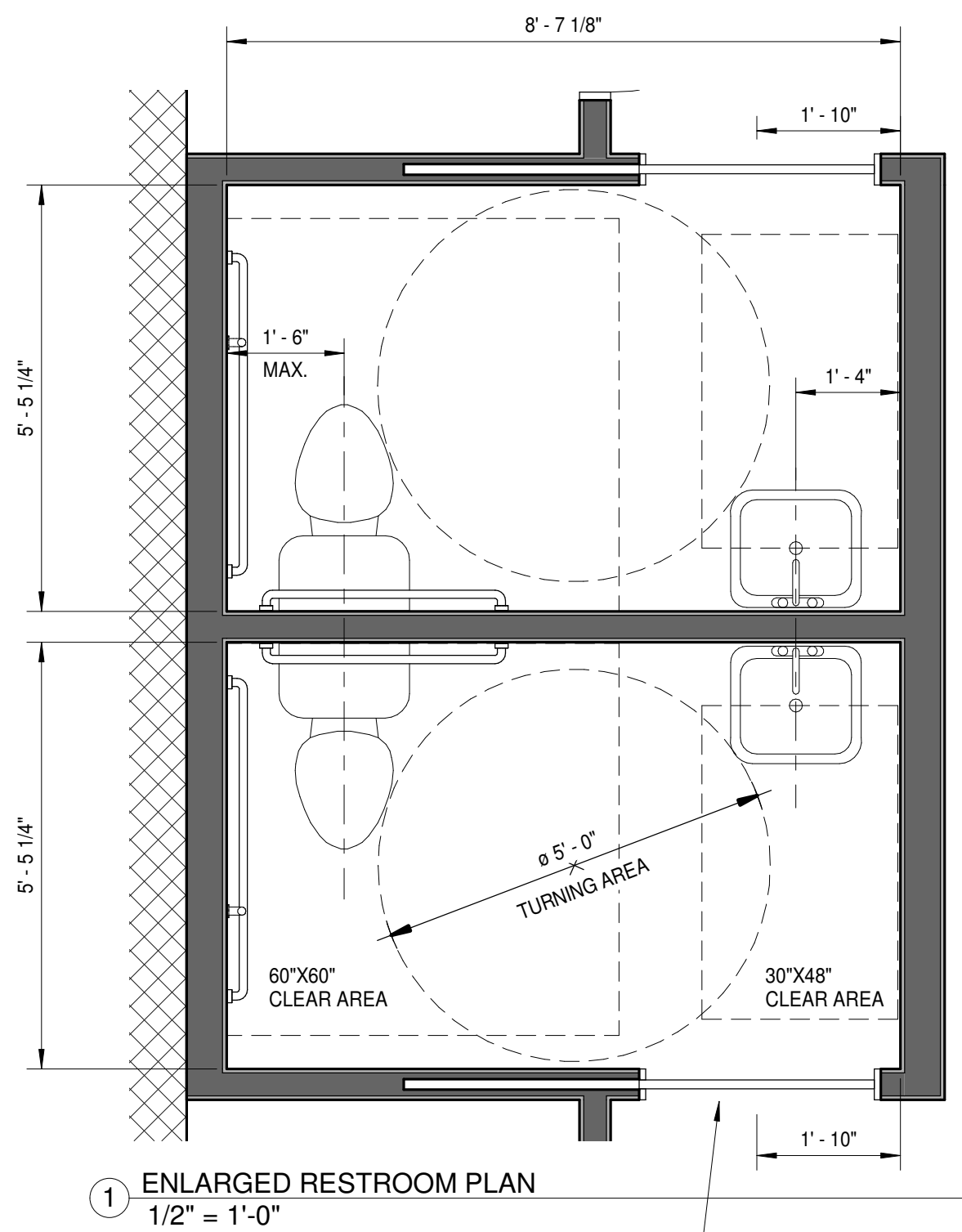


*Dimensions are informational only. Templates are available at www.trimcobhv.com

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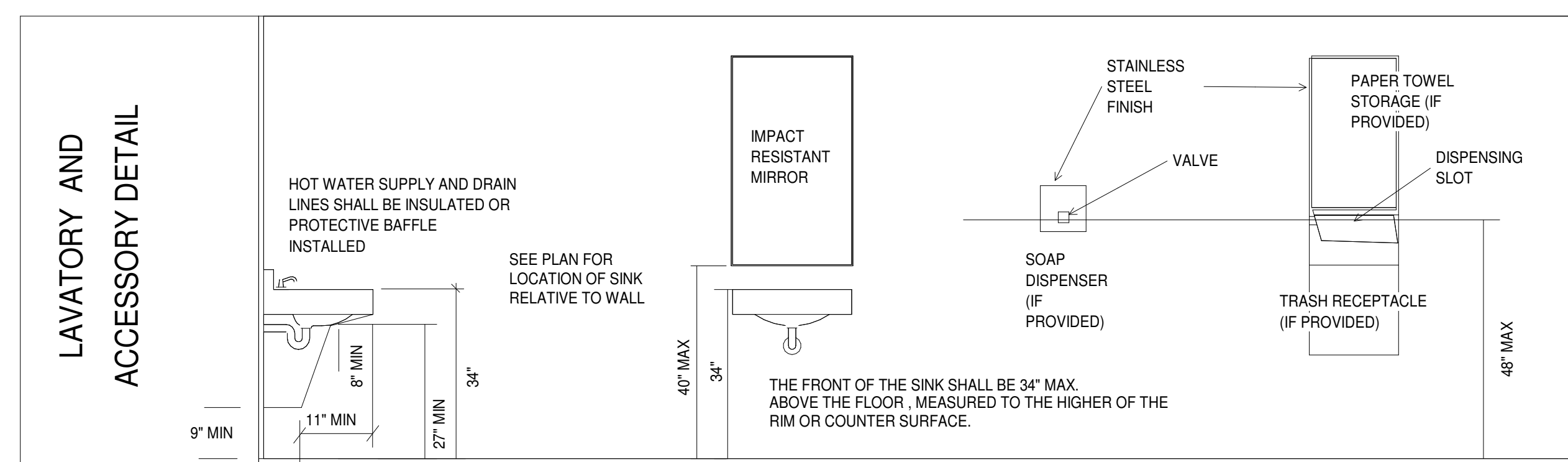
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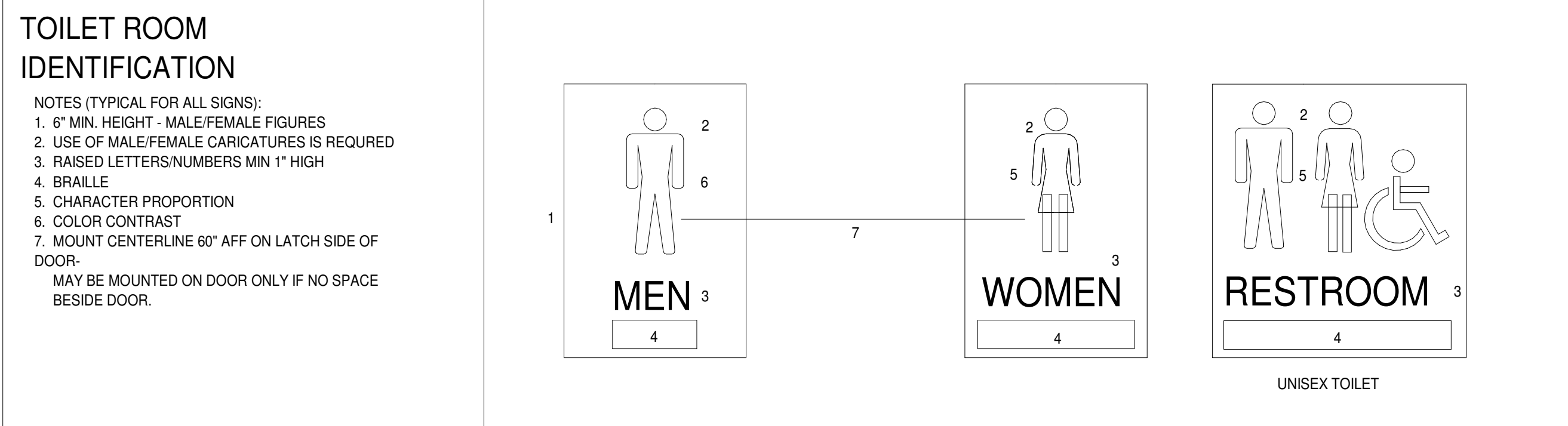


1 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

SOLID CORE WOOD POCKET DOOR REQUIRES ADA COMPLIANT HARDWARE. SEE SPEC SHEET BELOW

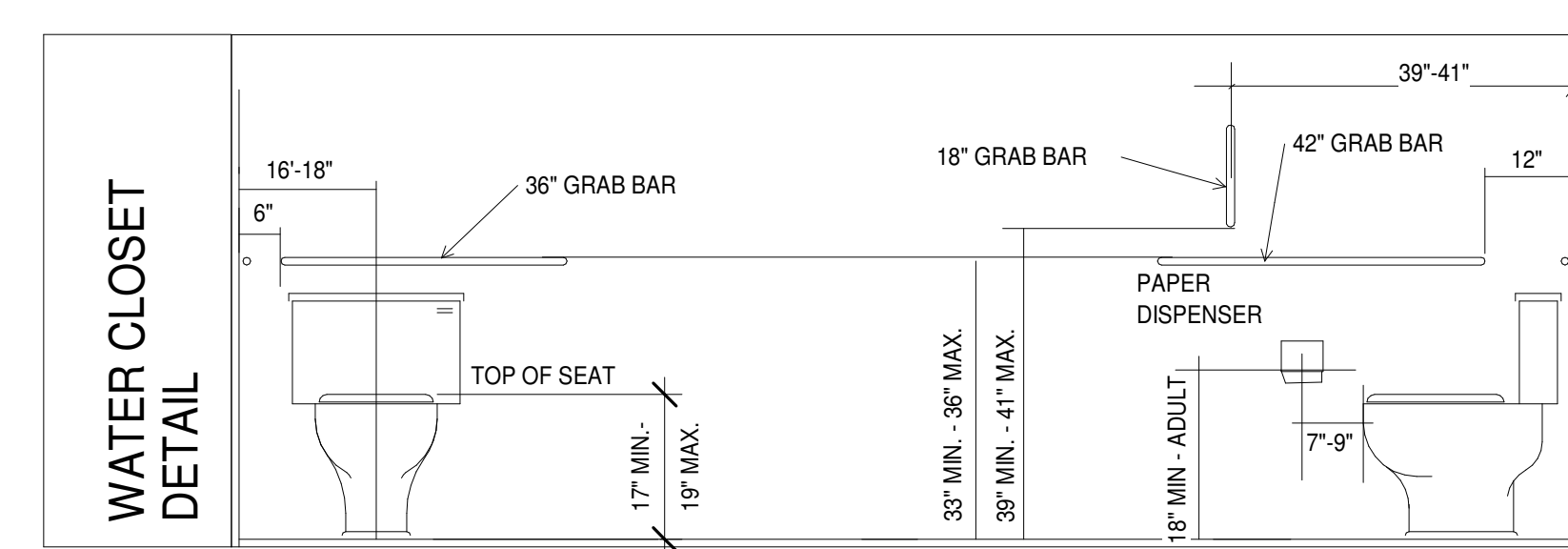


2 LAVATORY AND ACCESSORY DETAIL
12" = 1'-0"

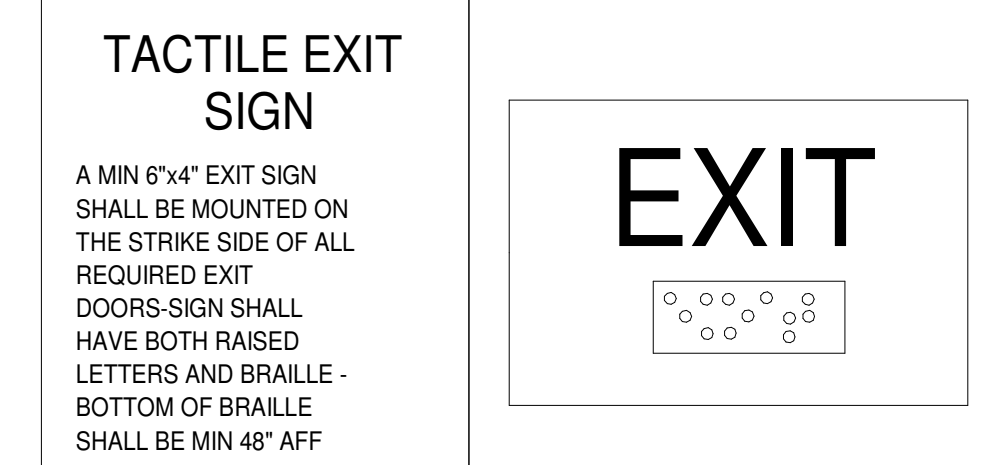


5 TOILET ROOM IDENTIFICATION
12" = 1'-0"

- TOILET ROOM IDENTIFICATION**
- NOTES (TYPICAL FOR ALL SIGNS):
- 6" MIN. HEIGHT - MALE/FEMALE FIGURES
 - USE OF MALE/FEMALE CARICATURES IS REQUIRED
 - RAISED LETTERS/NUMBERS MIN 1" HIGH
 - BRAILLE
 - CHARACTER PROPORTION
 - COLOR CONTRAST
 - MOUNT CENTERLINE 60" AFF ON LATCH SIDE OF DOOR - MAY BE MOUNTED ON DOOR ONLY IF NO SPACE BESIDE DOOR.

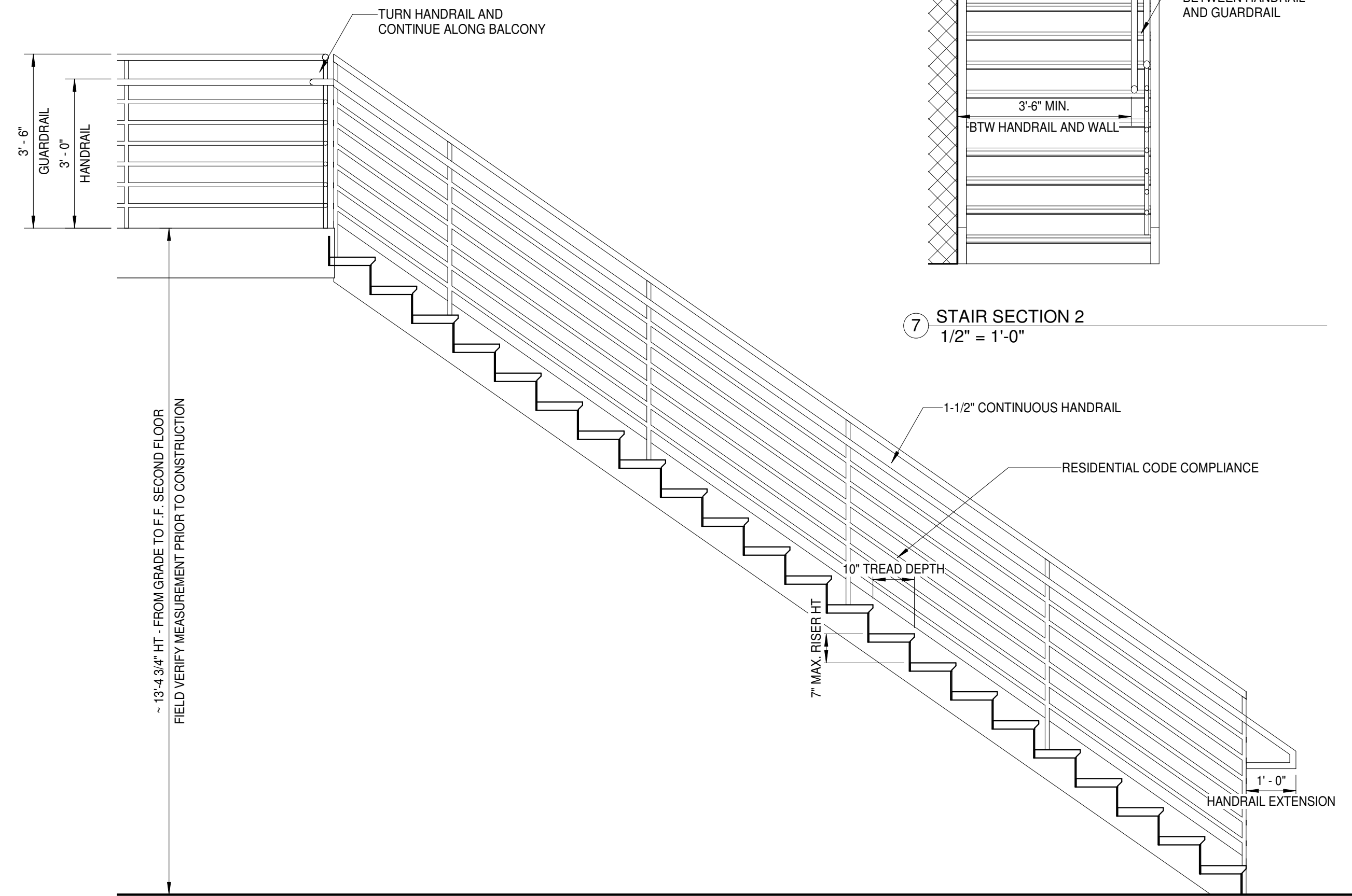


6 WATER CLOSET DETAIL
12" = 1'-0"



4 TACTILE EXIT SIGN
12" = 1'-0"

A MIN 6"x4" EXIT SIGN SHALL BE MOUNTED ON THE STRIKE SIDE OF ALL REQUIRED EXIT DOORS-SIGN SHALL HAVE BOTH RAISED LETTERS AND BRAILLE - BOTTOM OF BRAILLE SHALL BE MIN 48" AFF

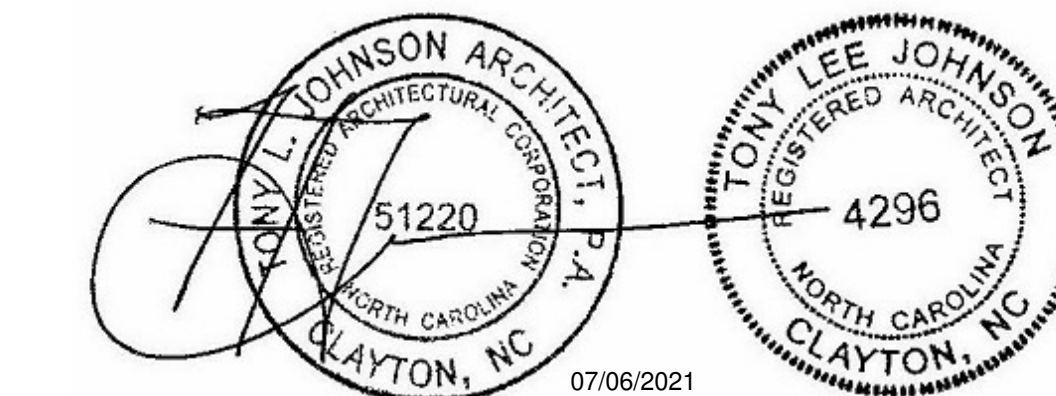


3 STAIR SECTION 1
1/2" = 1'-0"

7 STAIR SECTION 2
1/2" = 1'-0"

1-1/2" CONTINUOUS HANDRAIL
RESIDENTIAL CODE COMPLIANCE

10" TREAD DEPTH
7" MAX. RISER HT
1'-0" HANDRAIL EXTENSION



07/06/2021

REVISIONS

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ISSUE DATE 07/06/2021

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ENLARGED RESTROOM PLAN

SHEET

A-4.1