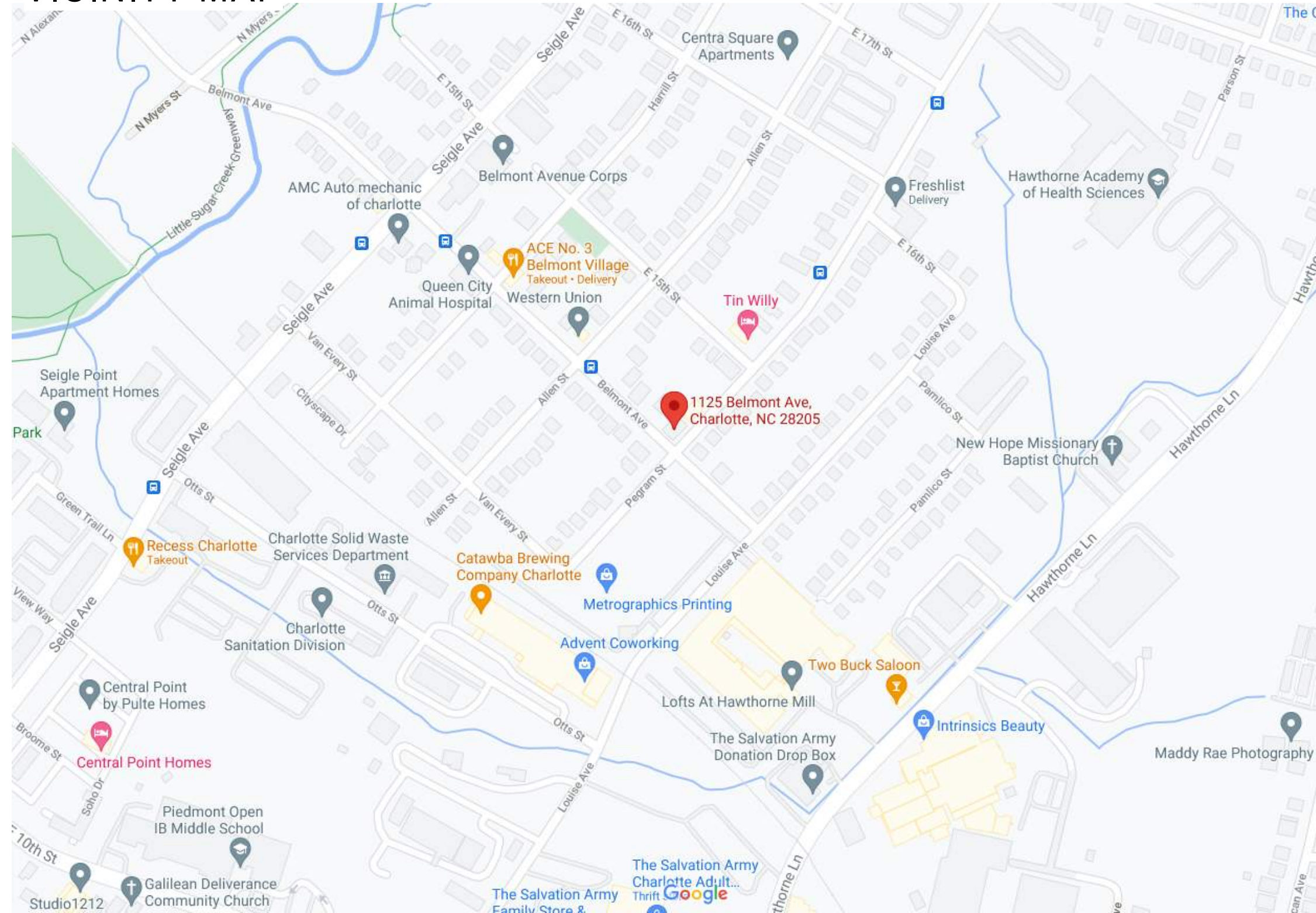


RED FRONT SHELL RENOVATION

1125 BELMONT AVENUE
CHARLOTTE, NC 28205
CONSTRUCTION DOCUMENTS - 07/08/2021

VICINITY MAP



GENERAL NOTES - CONSTRUCTION:

- WORK NOTED "BY OTHERS" OR "NIC" IS NOT IN CONTRACT.
- WORK OUTSIDE "AREA OF WORK", IS NOT IN CONTRACT, UNLESS OTHERWISE NOTED.
- EXTEND WALLS TO DECK ABOVE STOREFRONT SYSTEMS AND GLASS WALL PARTITIONS.
- WHERE NEW PARTITION ALIGNS WITH THE FACE OF AN EXISTING FURRED COLUMN OR PARTITION, REMOVE CORNER BEAD, TAPE, SPACKLE AND SAND JOINT BETWEEN NEW AND EXISTING GYPSUM BOARD.
- EXISTING WALL SURFACES AND PARTITIONS TO REMAIN SHALL BE PATCHED, SPACKLED AND SANDED SMOOTH SO AS NOT TO LEAVE ANY EVIDENCE OF DEMOLITION OR REPAIR WORK.
- PROVIDE FIRE EXTINGUISHER CABINETS, SMOKE DETECTORS AND ALL OTHER LIFE SAFETY DEVICES AS REQUIRED BY CODE. PROVIDE DRAWING SHOWING LOCATION, OF DEVICES FOR REVIEW PRIOR TO FRAMING OF WALLS. DO NOT PLACE IN FIRE RATED PARTITIONS.
- PROVIDE OR REUSE HOT AND COLD WATER LINES, SOIL VENT LINES AND PRESSURE AND SHUTOFF VALVES AS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING AND PLUMBING CODES FOR PLUMBING FIXTURES.
- VERIFY DIMENSIONS AND FIELD CONDITIONS TO CONFIRM CONSTRUCTABILITY. ANY CONFLICTS OR OMISSIONS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PERFORMANCE OF WORK.
- COORDINATE AND PROVIDE BLOCKING IN PARTITIONS AND CEILING FOR MILLWORK, WALL AND CEILING ATTACHED ITEMS.
- DO NOT SCALE DRAWINGS. ALL PARTITION LOCATIONS, DIMENSIONS AND TYPES, DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON PARTITION PLAN. IN CASE OF CONFLICT, NOTIFY ARCHITECT. PARTITION PLAN SUPERSEDES OTHER PLANS.
- COORDINATE SCHEDULE FOR TELEPHONE, DATA, SECURITY AND AUDIO VISUAL INSTALLATIONS, WITH TENANT AND OWNER.
- PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF FINISHES.
- PARTITIONS AT BUILDING PERIMETER SHALL BE CENTERED ON CENTER LINE OF COLUMN OR WINDOW MULLION, UNLESS OTHERWISE NOTED.
- COLUMN CENTER LINES, OR GRID LINES, ARE SHOWN FOR DIMENSIONING. VERIFY EXACT LOCATIONS IN FIELD.
- PROVIDE PARTITION TYPE WITH THE HIGHEST UL AND/OR ACOUSTICAL PERFORMANCE RATING WHERE MORE THAN ONE PARTITION TYPE IS INDICATED.
- ALIGN FINISHES ON EXPOSED SIDE OF PARTITION AND FURR CONCEALED SIDE OF PARTITION AS REQUIRED TO PROVIDE FLUSH INSTALLATION WHERE ADJACENT PARTITION TYPES DIFFER IN OVERALL THICKNESS.
- PROVIDE GLASS-MAT WATER RESISTANT GYPSUM WALL BOARD FOR INTERIOR PARTITIONS IN A TOILET ROOM, JANITOR'S CLOSET AND LOCATIONS TO RECEIVE TILE.
- CROSS BRACE CHASE PARTITIONS FROM STUD TO STUD AT 4'-0" O.C. VERTICAL MINIMUM AND PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE SOUND BATT INSULATION FULL HEIGHT OF PARTITIONS AROUND PERIMETER OF TOILET ROOMS, MECHANICAL ROOMS, MECHANICAL SHAFTS, PLUMBING CHASES AND ABOVE SCHEDULED CEILINGS WHERE PARTITIONS DO NOT EXTEND TO UNDERSIDE OF DECK ABOVE.
- PROVIDE ACOUSTICAL CAULKING AROUND PERIMETER EDGES AND PENETRATIONS AT SOUND INSULATED WALLS. OFFSET ELECTRICAL AND TELEPHONE OUTLETS 16" MINIMUM IN SEPARATE STUD CAVITIES.
- OFFSET ELECTRICAL AND TELEPHONE OUTLETS 16" MINIMUM IN SEPARATE STUD CAVITIES.
- MATERIALS USED IN UL RATED PARTITIONS SHALL CONFORM TO REFERENCED STANDARDS.
- STENCIL BOTH SIDES OF UL RATED PARTITIONS ABOVE SCHEDULED CEILING WITH REQUIRED PROTECTION TEXT.
- FIRE STOP PENETRATIONS IN UL RATED PARTITIONS TO MAINTAIN/ACHIEVE LEVEL OF PROTECTION REQUIRED FOR PARTITION TYPE. FIRE STOP ALONG PERIMETER OF RATED PARTITIONS WHERE VOIDS OCCUR.

Sheet Number	Sheet Name	Sheet Number	Sheet Name
00 - COVERSHEET	COVER SHEET	05 - PLUMBING	PLUMBING NOTES, LEGENDS, AND SYMBOLS
01 - GENERAL / LIFE SAFETY	BUILDING CODE SUMMARY	P101	SUPPLY PIPING PLAN - DEMO
G001	FIRE RESISTANCE DESIGNS	P102	SUPPLY PIPING PLAN - NEW WORK
G020	FIRE RESISTANCE DESIGNS	P201	PLUMBING PLAN - DEMO
G111	LIFE SAFETY PLANS	P202	SUPPLY PIPING PLAN - NEW WORK
03 - LANDSCAPE	EXISTING CONDITIONS AND DEMOLITION PLAN	06 - MECHANICAL	MECHANICAL NOTES, LEGENDS, AND DETAILS
L001	SITE PLAN	M101	MECHANICAL PLANS - NEW WORK
L100	LANDSCAPE PLAN	07 - ELECTRICAL	ELECTRICAL NOTES, LEGENDS, AND DETAILS
L102	UTILITY PLAN	E002	ELECTRICAL SPECIFICATIONS
L200	GRADING AND ESC PLAN	E003	ELECTRICAL PENETRATION DETAILS
L300	DETAILS	E004	ELECTRICAL PWER RISER, DETAILS, AND SCHEDULES
L301	DETAILS	E101	ELECTRICAL PLANS - EXISTING AND DEMO
04 - ARCHITECTURE	DEMOLITION FLOOR PLAN	E102	ELECTRICAL PLANS - NEW WORK
A011	DEMOLITION ELEVATIONS	E201	PANEL SCHEDULE
A010	WALL TYPES - INTERIOR PARTITIONS		
A110	ARCHITECTURAL SITE PLAN		
A111	FLOOR PLANS		
A112	ROOF PLAN		
A121	REFLECTED CEILING PLAN		
A210	ELEVATIONS		
A310	ENLARGED ELEVATION + EXTERIOR DETAILS		
A400	ENLARGED TOILET PLANS AND ELEVATIONS		
A601	VERTICAL CIRCULATION		
A900	DOOR AND FRAME TYPES		

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OWNER	OWNER'S REPRESENTATIVE	ARCHITECT	CIVIL	PLUMBING	MECHANICAL	ELECTRICAL
6 SUMMIT 2820 Selwyn Ave., Ste. 616 Charlotte, NC 28209 Phone Dylan Kwasniewski	Orion Growth 2033 EUCLID AVENUE, UNIT B CHARLOTTE, NC 28203 888-247-4498 John Ramseur	Little 615 S. College St. Ste. 1600 Charlotte, NC 28202 704-525-6350 Nicholas Ault	Landworks Design Group, PA 1230 West Morehead St., Ste. 304 Charlotte, NC 28208 704-841-1604 Matt Langston	Wilde Engineering 15822 Kelly Park Circle Huntersville, NC 28078 704-439-7038 Matt Lewis	Wilde Engineering 15822 Kelly Park Circle Huntersville, NC 28078 704-439-7038 Matt Lewis	Wilde Engineering 15822 Kelly Park Circle Huntersville, NC 28078 704-439-7038 Matt Lewis

LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

615 South College Street, Suite 1600
Charlotte, NC 28202
T: 704.525.6350
www.littleonline.com

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EDDIE PORTIS
REGISTERED ARCHITECT
CERT. NO. 80035
CHARLOTTE, N.C.

EDWARD LOUIS ROBIN
REGISTERED ARCHITECT
CERT. NO. 10188
CHARLOTTE, N.C.

ISSUE FOR:
CONSTRUCTION DOCUMENTS

ISSUE DATE:
07/08/2021

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE:
EDDIE PORTIS
PROJECT MANAGER:
NICHOLAS AULT
DESIGN TEAM:
AC

PROJECT NAME:
RED FRONT SHELL
RENOVATION

PROJECT NO.:
132.15925.00

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
CS

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D

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B

A

UL Product IQ™

BXUV.L522 - Fire-resistance Ratings - ANSI/UL 263

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. L522

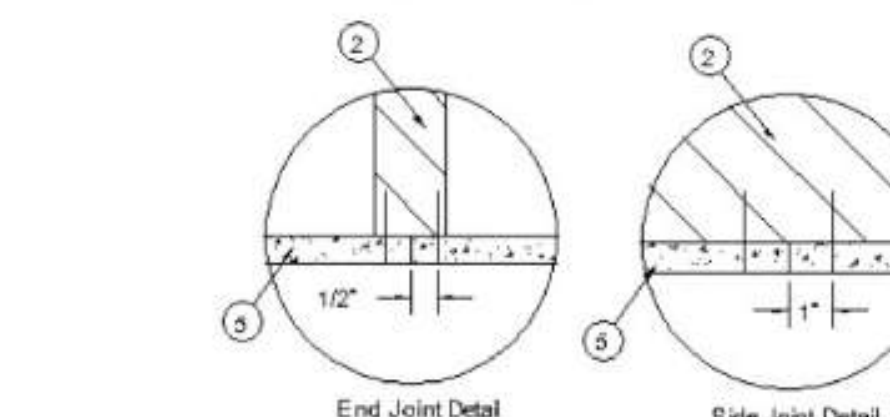
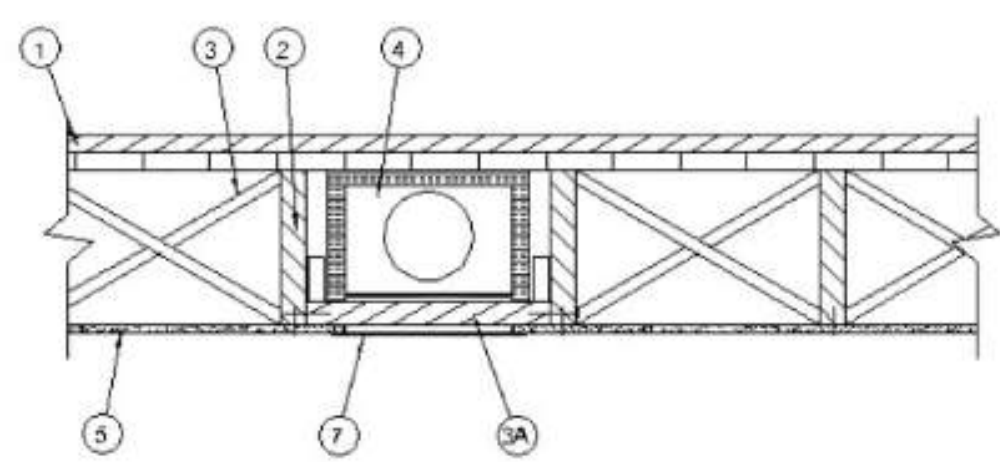
February 05, 2021

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 16 Min.

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

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



1. Finish System — 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 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 — Floor Topping Mixture — Min 1-1/2 in. thickness of floor topping mixture having a minimum 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 34 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

System No. 2

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture — Min 1-1/2 in. thickness of floor topping mixture having a minimum 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 34 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF.

System No. 3

Deleted.

System No. 4

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Floor Mat Materials — (Optional) — Floor mat material nom 5/16 in. (32mm) 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. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6mm) 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. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II.

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

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

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

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

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

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

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 1 in. thickness of floor topping mixture having a minimum compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — FIRM-Fill Gypsum Concrete, FIRM-Fill 210, FIRM-Fill 2310, FIRM-Fill 4010, FIRM-Fill High Strength, Gyp-Span Radiant

System No. 5

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 1100 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 — Types UQF-A, UQF-Super Blend, UQF-Plus 2000.

System No. 6

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

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, 0.388 lbs/sq yd loose laid over the floor mat material.

System No. 7

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Floor - 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. 8

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture — Min 1-1/2 in. thickness of floor topping mixture having a minimum 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 34 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

AREX INDUSTRIES — Floor Topping Mixture

System No. 9

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SteMix

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 1 in.

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

System No. 10

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 in. thickness of floor topping mixture having a minimum compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

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.

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

Finish Flooring — (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 (CCOX) 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 55/075 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. 12

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ACG MATERIALS — AccuCrete® Types NexGen, Green, Prime and ProPan; AccuRadian®; AccuLevel® Types G40, G50 and S30

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 1 in.

ACG MATERIALS — AccuQuiet types P80, G40, D13, D-18, D28, D38, EM 125, EM 125S, EM 250, EM 250S, EM 375, EM 375S, EM 750, and EM 750S.

System No. 13

Subflooring — Min 2x2 in. thick 1860 wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the trusses with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each stud. 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. 14

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 0.010 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 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Type LRK, HSLRK, CSD

System No. 15

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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.

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, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment, SRK-25

System No. 16

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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 — 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 with a minimum compressive strength of 1500 psi.

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

System No. 17

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 18

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 19

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 20

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 21

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 22

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 23

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

Finish Flooring - Floor Topping Mixture — Min 1 in. thickness of floor topping mixture having a minimum compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 24

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or 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) - Commercial asphalt saturated felt, 0.030 in. thick.

PLUMBING FIXTURE CALCULATIONS

LEVEL	USE	LOAD* TOTAL	WC'S UNISEX	LAV'S UNISEX	DFS	SHWR
LEVEL 1	B	26.33	1.05	0.66	1	0
	S-1	0.15	0.01	0.01	0	0
LEVEL 2	B	27.03	1.08	0.68	1	0
SUBTOTAL		53.51	2.14	1.35	2	0
REQUIRED			3	2	2	0
PROVIDED			3**	3	2	0

*Only 1 restroom for each gender required per floor. Per 2002.2 exception 5, allows for the use of unisex facilities.
**WC count to be shared between Level above and below per 2002.3.2

water closet formulas:
A-1/A-3 occupancy: male: 1 per 125; female 1 per 65
B occupancy: male/female: 1 per 25 for first 50, 1 per 50 thereafter
S-1/S-2 occupancy: male/female: 1 per 100

lavatory formulas:
A-1/A-3 occupancy: male/female: 1 per 200
B occupancy: male/female: 1 per 40 for first 80, 1 per 80 thereafter
S-1/S-2 occupancy: male/female: 1 per 100

drinking fountain formulas:
A-1/A-3 occupancy: 1 per 500
B occupancy: 25-100: 1, 101-250: 2, 251-500: 3
S-1/S-2 occupancy: n/a

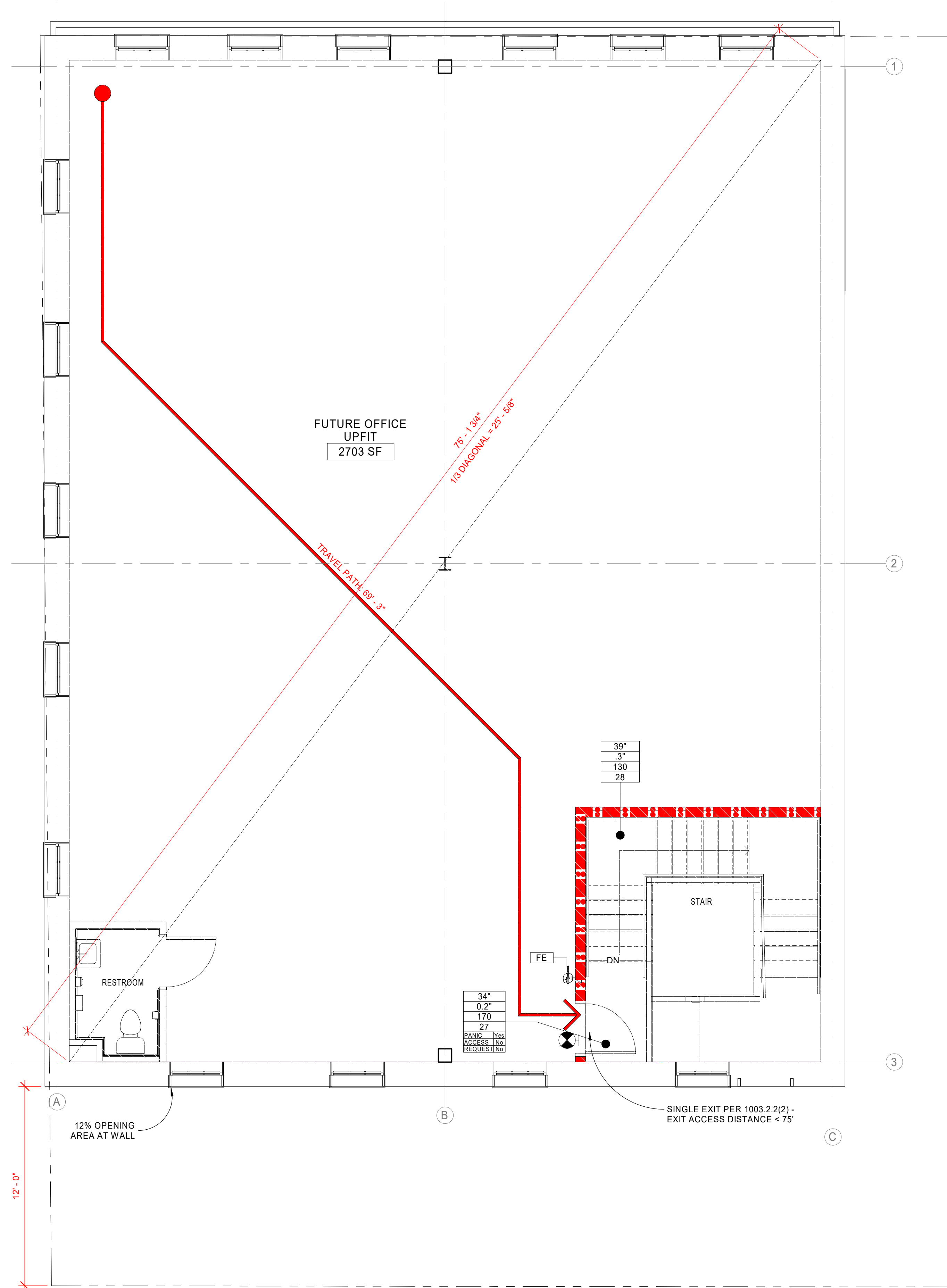
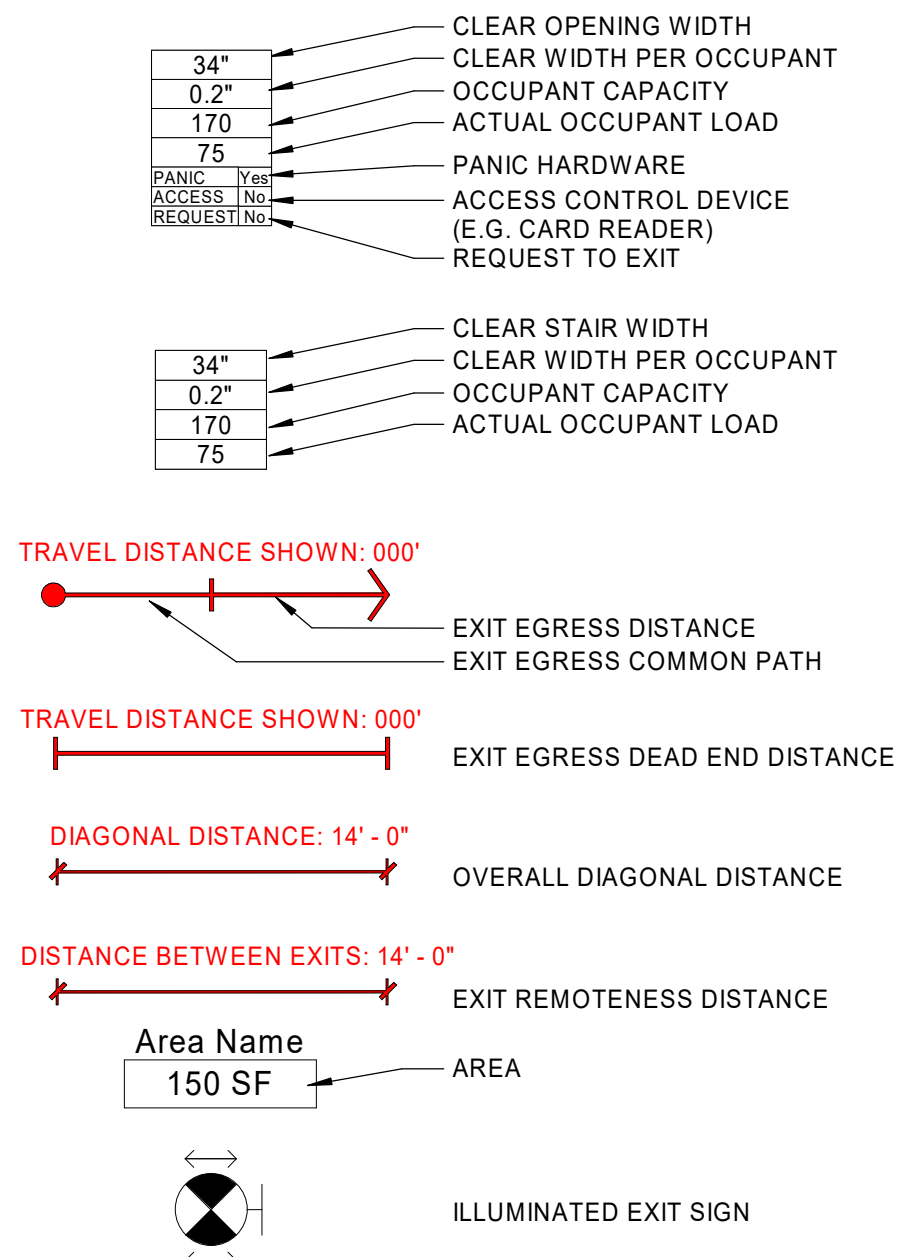
LEVEL 01 - OCCUPANT LOAD

DESCRIPTION	FUNCTION (USE) OF SPACE	AREA	AREA PER OCCUPANT TEST	OCCUPANT LOAD	
B	FUTURE OFFICE UPFIT	BUSINESS AREA (GROSS)	2,633 SF	100 SF	26.33
S-2	CUSTODIAL	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM (GROSS)	44 SF	300 SF	0.15
LEVEL 01 OCCUPANT LOAD		2,677 SF		26.48	
				LEVEL 01 OCCUPANT LOAD: 27	

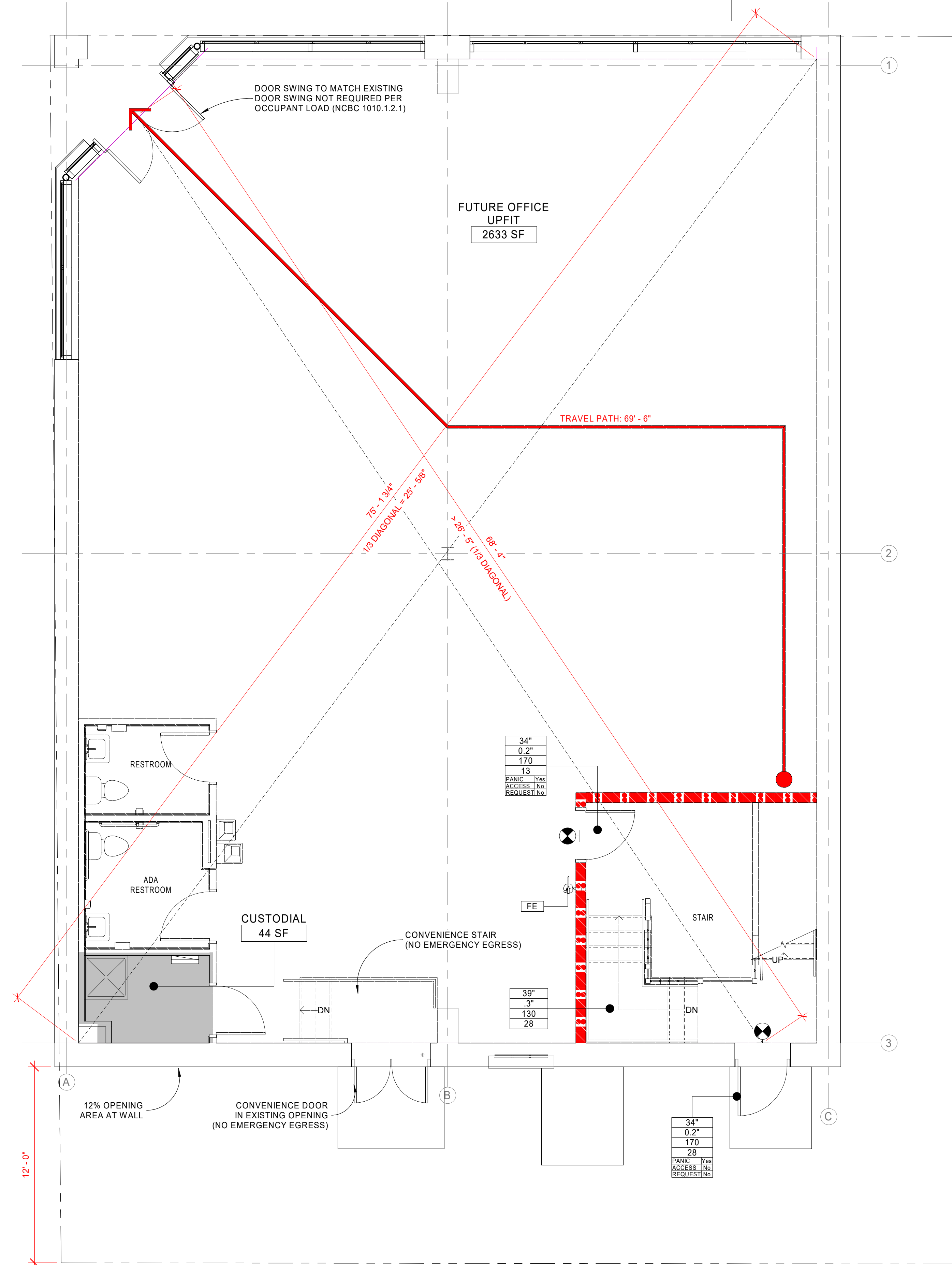
LEVEL 02 - OCCUPANT LOAD

DESCRIPTION	FUNCTION (USE) OF SPACE	AREA	AREA PER OCCUPANT TEST	OCCUPANT LOAD	
B	FUTURE OFFICE UPFIT	BUSINESS AREA (GROSS)	2,703 SF	100 SF	27.03
LEVEL 02 OCCUPANT LOAD		2,703 SF		27.03	
** ALL BUILDING AREAS TO BE CONSIDERED BUSINESS OCCUPANCY, MEASURED AT 1 OCC / 100 GSF, UNLESS INDICATED OTHERWISE ON THE FLOOR PLANS		TOTAL BUILDING AREA: 5,380 SF	LEVEL 02 OCCUPANT LOAD: 28	TOTAL BUILDING OCCUPANT LOAD: 55	

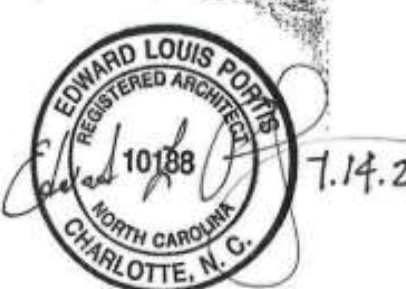
LIFE SAFETY SYMBOLS



1 LIFE SAFETY PLAN - LEVEL 2
G111 1/4" = 1'-0"



1A LIFE SAFETY PLAN - LEVEL 1
G111 1/4" = 1'-0"



ISSUE FOR CONSTRUCTION DOCUMENTS

ISSUE DATE 07/08/2021

REVISIONS

NO.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE: EDDIE PORTIS
PROJECT MANAGER: NICHOLAS AULT
DESIGN TEAM: Designer

PROJECT NAME: RED FRONT SHELL RENOVATION

1125 BELMONT AVENUE
CHARLOTTE, NC 28205

PROJECT NO.: 132.15925.00

SHEET TITLE: LIFE SAFETY PLANS

SHEET NUMBER: G111