

BUILDING CODES IN EFFECT FOR THIS PROJECT:

- 2021 IBC, 2021 IFB, 2021 IFC, 2021 IMC, 2009 IEC, 2020 NEC, 2017 ANSI A117.1, 2021 SC STATE BUILDING CODE, NEW BUILDING, SHELL BUILDING, INTERIOR UPFIT, ADDITION, REPAIR, ALTERATION L1, ALTERATION L2, ALTERATION L3, CHANGE OF OCCUPANCY

1. USE AND OCCUPANCY CLASSIFICATION - PRIMARY USE / MOST RESTRICTIVE (CHAPTER 3):

Table with columns A-1 through H-2 and rows for various occupancy types like H-3, I-3 C5, I-4, M, R-1, R-2, R-3, R-4 C1, R-4 C2, S-1, S-2, U.

USE AND OCCUPANCY CLASSIFICATION - SECONDARY USES:

Table with columns A-1 through H-2 and rows for secondary occupancy types like H-3, H-4, H-5, I-1 C1, I-1 C2, I-2 C1, I-2 C2, I-3 C1, I-3 C2, I-3 C3, I-3 C4, I-3 C5, I-4, M, R-1, R-2, R-3, R-4 C1, R-4 C2, S-1, S-2, U.

INCIDENTAL USES (TABLE 509.1):

- FURNACE ROOMS WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU PER HOUR INPUT, ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI & 10 HP, REFRIGERANT MACHINERY ROOMS, INCINERATOR ROOMS, GROUP I-2 LAUNDRY ROOMS OVER 100 S.F., HYDROGEN FUEL GAS ROOMS NOT CLASSIFIED AS GROUP H, GROUP I-2 PLANT MAINTENANCE SHOPS, PAINT SHOPS NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F, LABS AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H, LAUNDRY ROOMS OVER 100 S.F., GROUP I-3 CELLS & I-2 PATIENT ROOMS EQUIPPED WITH PADDED SURFACES, GROUP I-2 STORAGE ROOMS OVER 100 S.F., GROUP I-2 STORAGE ROOMS OVER 100 S.F., GROUP I-2 WASTE/LINEN COLLECTION ROOMS OVER 100 S.F., ELECTRICAL INSTALLATIONS & TRANSFORMERS, IN GROUP I-2 OCCUPANCIES, LABS NOT CLASSIFIED AS GROUP H, IN AMBULATORY CARE FACILITIES, LABS NOT CLASSIFIED AS GROUP H, IN IN GROUP E OCCUPANCIES, LABS AND VOCATIONAL SHOPS NOT CLASSIFIED AS GROUP H, GROUP I-2 WASTE AND LINEN COLLECTION ROOMS WITH CONTAINERS THAT HAVE AN AGGREGATE VOLUME OF 10 CUBIC FEET OR GREATER

2. SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY (CHAPTER 4):

- COVERED MALLS & OPEN BUILDINGS, HIGH RISE BUILDINGS, ATRIUMS, MOTOR VEHICLE RELATED, GROUP I-2, GROUP I-3, MOTION PICTURE PROJECTION ROOMS, STAGES & PLATFORMS, SPECIAL AMUSEMENT BUILDINGS, AIRCRAFT RELATED, HAZARDOUS MATERIALS, GROUPS H-1 THRU H-5, DRYING ROOMS, HYPERBARIC FACILITIES, GROUPS I-1, R-1 THRU R-4, HYDROGEN FUEL GAS ROOMS, STORM SHELTERS, UNDERGROUND BUILDINGS, COMBUSTIBLE DUST, HIGHER EDUCATION LABS, COMBUSTIBLE STORAGE, MEDICAL GAS SYSTEMS, ARTIFICIAL DECORATIVE VEGETATION, PLAY STRUCTURES, SPRAY APPLICATION OF FLAMMABLES, AMBULATORY CARE FACILITIES

3. ALLOWABLE BUILDING HEIGHTS, STORIES AND AREAS:

Table with columns for MAXIMUM HEIGHT ALLOWED, MAXIMUM NUMBER OF STORIES, GROSS BUILDING AREA PER FLOOR, and PROTECTED CONSTRUCTION options.

INCIDENTAL USE AREAS (TABLE 509):

Table with columns for ROOM OR AREA and ALLOWED/SHOWN hours.

REQUIRED SEPARATION OF OCCUPANCIES (TABLE 508.4):

Table with columns for NONSEPARATED USES, SEPARATED USES, and ACCESSORY USE.

SEPARATED USE FLOOR AREA CALCULATIONS:

Table with columns for AREA 1 through AREA 4 and ACTUAL/ALLOWED area values.

4. TYPES OF CONSTRUCTION (CHAPTER 6):

Table with columns 1-A through 5-B and rows for fire resistance rating requirements.

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS IN HOURS (TABLE 601): STRUCTURAL FRAME: 0 BEARING WALLS (INT.): 0 BEARING WALLS (EXT.): 0 NONBEARING WALLS (INT.): 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0

FIRE RESISTANCE RATING FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (TABLE 705.5): 0 TO = 5': 5' TO = 10': 10' TO = 30': 30'+: 0

5. FIRE RESISTANCE RATED CONSTRUCTION:

Table with columns for STRUCTURAL FRAME, EXTERIOR BEARING WALLS, INTERIOR BEARING WALLS, FLOOR CONSTRUCTION, ROOF CONSTRUCTION, FIRE WALLS, FIRE BARRIERS, SHAFT ENCLOSURES, CORRIDORS, FIRE DOOR & FIRE SHUTTER PROTECTION RATINGS, FIRE WINDOW ASSEMBLY, FIRE DAMPER RATING, and MAXIMUM AREA OF EXTERIOR WALL OPENINGS.

Table with columns for UNPROTECTED CONSTRUCTION and PROTECTED CONSTRUCTION with fire resistance ratings.

Table with columns for UNPROTECTED CONSTRUCTION and PROTECTED CONSTRUCTION with fire resistance ratings.

7. FIRE PROTECTION SYSTEMS (CHAPTER 9):

- SPRINKLER REQUIRED, FIRE EXTINGUISHER TYPES, DRY CHEM. - TYPE BC, DRY CHEM. - TYPE ABC, CARBON DIOXIDE - TYPE BC, FIRE EXTINGUISHER LOCATIONS, FIRE ALARM SYSTEM, PULL STATIONS, STROBES, CONTROL PANEL, EMERGENCY ALARM SYSTEM, SMOKE CONTROL SYSTEM, SMOKE DAMPERS, SMOKE LATCHES, SMOKE VENTS, ANNUNCIATORS, SMOKE DETECTORS, BATTERY BACK-UP, SMOKE BARRIERS, EXHAUST FANS, HEAT VENTS

8. OCCUPANCY LOAD (TABLE 1004.5)

Table with columns for PRINCIPAL OCCUPANCY, FIXED SEATING, and INCIDENTAL OR MIXED OCCUPANCY GROUPS (A-F).

EGRESS WIDTH (IN INCHES) PER OCCUPANT SERVED (SECTION 1005):

Table with columns for STAIRWAYS, TOTAL STAIR EGRESS WIDTH, and TOTAL OTHER COMPONENTS EGRESS WIDTH.

EGRESS WIDTH (IN INCHES) PER OCCUPANT SERVED (SECTIONS 1005):

Table with columns for STAIRWAYS, TOTAL STAIR EGRESS WIDTH, and TOTAL OTHER COMPONENTS EGRESS WIDTH.

9. EXIT REQUIREMENTS (CHAPTER 10):

Table with columns for MINIMUM NUMBER OF EXITS, SINGLE EGRESS ALLOWED, DEAD-END CORRIDORS, EXIT ACCESS TRAVEL DISTANCE, MINIMUM CORRIDOR WIDTH, ACCESS TO ROOF REQUIRED, and STAIRWAYS.

Table with columns for MINIMUM STAIR WIDTH, MAXIMUM RISER HEIGHT, MINIMUM TREAD DEPTH, HANDRAIL HEIGHT, SMOKE BARRIER REQUIRED, GUARDRAIL HEIGHT, RAMPS, MAXIMUM SLOPE, MAXIMUM VERTICAL RISE, HANDRAIL HEIGHT, HANDRAIL REQUIRED, and RAILING HEIGHT.

10. RESTROOM FACILITIES (TABLE 2902.1):

Table with columns for MINIMUM NUMBER OF TOILET STALLS FOR MEN/WOMEN, MINIMUM NUMBER OF LAVATORIES FOR MEN/WOMEN, MINIMUM NUMBER OF DRINKING FOUNTAINS, NUMBER OF SERVICE SINKS, UNISEX RESTROOM ALLOWED, NUMBER OF UNISEX RESTROOMS, NUMBER OF EXISTING MEN'S/WOMEN'S RESTROOMS/LAVATORIES/FOUNTAINS/SINKS.

11. STRUCTURAL REQUIREMENTS (CHAPTER 16): N/A - EXISTING STRUCTURE

Table with columns for LOADS (WIND, FLOOR LIVE, FLOOR DEAD, ROOF LIVE, ROOF COLLATERAL, GROUND SNOW, FLOOD, SPECIAL) and SEISMIC LOADS (DESIGN AREA ZIP CODE, CENTRAL LATITUDE, CENTRAL LONGITUDE, SPECTRAL RESPONSE ACCELERATION, SEISMIC HAZARD EXPOSURE GROUP, PERFORMANCE CATEGORY, SOIL PROFILE, BASIC STRUCTURAL SYSTEM).

6. INTERIOR FINISHES (CHAPTER 8):

- BY OCCUPANCY GROUP (TABLE 803.11): S-2, FINISH CLASS: A, B, C, VERTICAL EXITS AND EXIT PASSAGEWAYS, EXIT ACCESS CORRIDORS AND OTHER EXITWAYS, ROOMS AND ENCLOSED SPACES, II. SCHEDULE OF SPECIAL INSPECTIONS (CHAPTER 17): NO SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT, SPECIAL INSPECTIONS REQUIRED, LIFE SAFETY SYSTEM REQUIREMENTS: EMERGENCY LIGHTING, EXIT SIGNS, FIRE ALARM, SMOKE DETECTION SYSTEMS, PANIC HARDWARE, LIFE SAFETY SYSTEMS GENERATOR, LIFE SAFETY PLAN SHEET # A1.

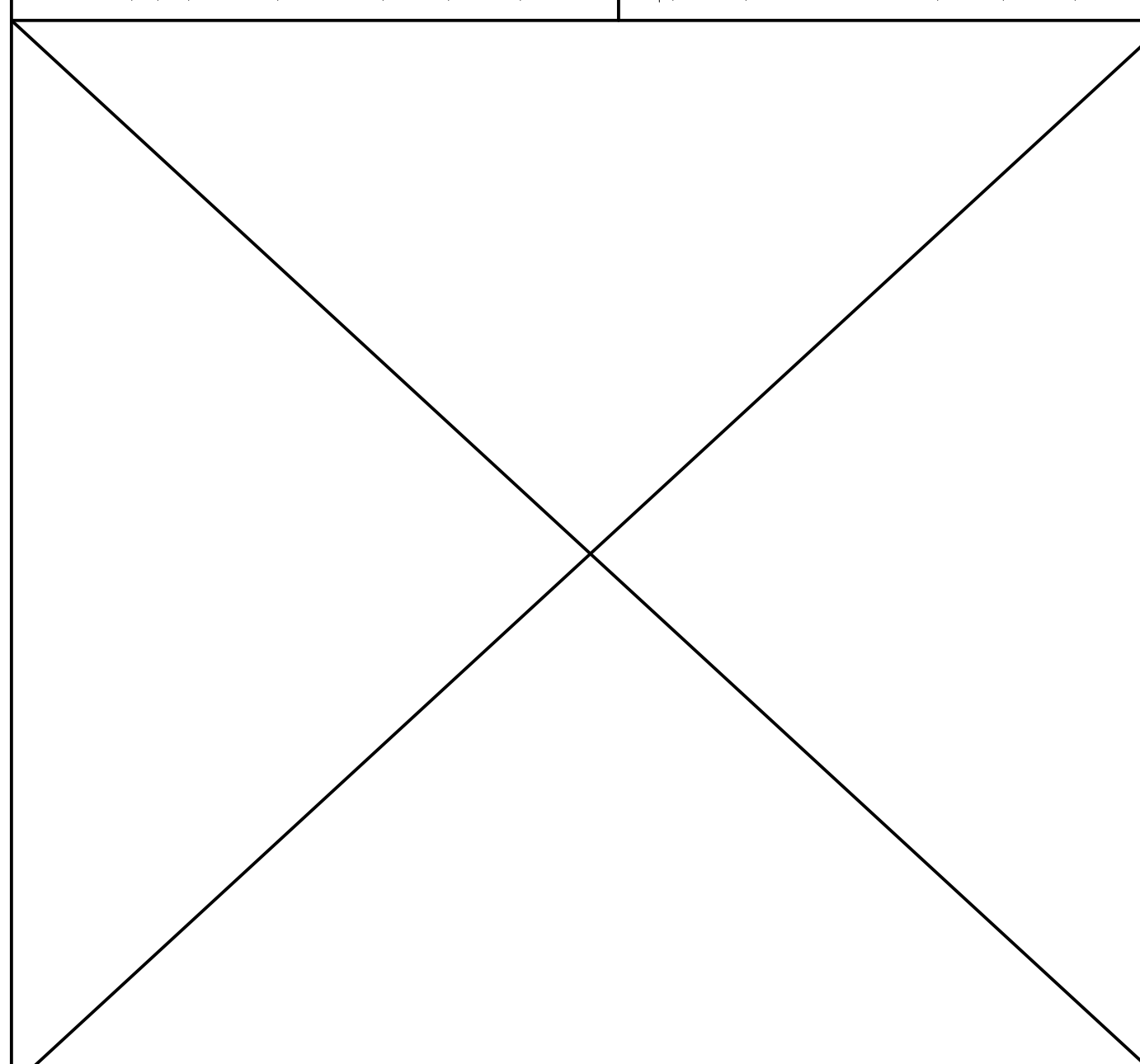
12. LIFE SAFETY SYSTEM REQUIREMENTS:

- EMERGENCY LIGHTING, EXIT SIGNS, FIRE ALARM, SMOKE DETECTION SYSTEMS, PANIC HARDWARE, LIFE SAFETY SYSTEMS GENERATOR, LIFE SAFETY PLAN SHEET # A1, FIRE AND/OR SMOKE RATED WALL LOCATIONS, ASSUMED AND REAL PROPERTY LINE LOCATIONS, EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE OF ASSUMED PROPERTY LINES, OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION, OCCUPANT LOADS FOR EACH AREA, EXIT TRAVEL DISTANCES, COMMON PATH OF TRAVEL DISTANCES, DEAD END LENGTHS, CLEAR EXIT WIDTH FOR EACH DOOR, MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH, ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR, SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF, STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION, LOCATIONS OF DOORS WITH PANIC HARDWARE, LOCATIONS OF DOORS WITH DELAYED EGRESS LOCKS, LOCATIONS OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS, LOCATIONS OF DOORS WITH HOLD-OPEN DEVICES, LOCATIONS OF EMERGENCY ESCAPE WINDOWS, SQUARE FOOTAGE OF EACH FIRE AREA, SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2.

Table of MATERIAL SYMBOLS including STEEL, WOOD - FINISHED, WOOD - ROUGH, INSULATION, PLYWOOD, ACOUSTICAL TILE, GYPSUM WALL BOARD, GRAVEL, BRICK, CMU, CONCRETE, EARTH.

Table of GRAPHIC SYMBOLS including 101 ROOM NUMBER, EQUIPMENT NUMBER, REVISION, PROJECT NORTH ARROW, FLOOR ELEVATION, FLOOR DRAIN, ROOF DRAIN, BUILDING SECTION, WALL SECTION, DETAIL REFERENCE, INTERIOR ELEVATION, WALL TYPE, DOOR MARK, WINDOW MARK, SPECIFIC NOTE, COLUMN GRID LINES, STUD PARTITION, RATED PARTITION, BRICK VENEER, CONCRETE MASONRY UNIT.

MATERIAL SYMBOLS GRAPHIC SYMBOLS



AREA INCREASE CALCULATIONS

- GENERAL CONTRACTOR: TO BE PROVIDED AT PERMITTING, CIVIL CONTRACTOR: TO BE PROVIDED AT PERMITTING, PLUMBING CONTRACTOR: TO BE PROVIDED AT PERMITTING, MECHANICAL CONTRACTOR: N/A, ELECTRICAL CONTRACTOR: TO BE PROVIDED AT PERMITTING, SPRINKLER CONTRACTOR: N/A, FIRE ALARM CONTRACTOR: N/A

- GI GENERAL INFORMATION, ARCHITECTURAL AI FLOOR PLAN, PLUMBING PI PLUMBING PLAN, ELECTRICAL EI POWER/LIGHTING PLAN

ISSUED FOR CODE REVIEW, DATE OF ISSUE: 5-3-2023, THESE PLANS HAVE NOT BEEN APPROVED BY THE BUILDING DEPARTMENT. PLANS SHOULD BE STAMPED APPROVED FOR CONSTRUCTION BY THE BUILDING DEPARTMENT PRIOR TO BIDDING OR CALCULATING TAKE-OFFS.



233 Johnston Street, Rock Hill, SC 29730, Cell: 803-417-2790, mcump@spectrum-inc.com

Professional Building Design

- Professional Consultant Seal: 101 ROOM NUMBER, EQUIPMENT NUMBER, REVISION, PROJECT NORTH ARROW, FLOOR ELEVATION, FLOOR DRAIN, ROOF DRAIN, BUILDING SECTION, WALL SECTION, DETAIL REFERENCE, INTERIOR ELEVATION, WALL TYPE, DOOR MARK, WINDOW MARK, SPECIFIC NOTE, COLUMN GRID LINES, STUD PARTITION, RATED PARTITION, BRICK VENEER, CONCRETE MASONRY UNIT

General Notes:

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 EDITION OF THE SOUTH CAROLINA BUILDING CODE, (SC EDITION) AS WELL AS ALL LOCAL BUILDING CODES, ANY PENETRATIONS INTO RATED ASSEMBLIES SHALL BE PERFORMED SO AS TO NOT ALTER OR DECREASE THE RATING OF THE ASSEMBLY, APPROVED SIGNS SHALL BE POSTED AT ALL HANDICAPPED ACCESSIBLE ELEMENTS, A TACTILE SIGN STATING 'EXIT' IN RAISED VISUAL CHARACTERS AND BRAILLE AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE PER IBC 1013.4, ALL DOOR HARDWARE SHALL BE OF APPROVED BARRIER FREE DESIGN THAT REQUIRES NO TWISTING OR TURNING, ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED, ALL FIRE RATED PARTITIONS SHALL BE LABELED ABOVE ALL DECORATIVE CEILINGS WITH THE WORDING 'FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS', ALL DECORATIVE CURTAINS & DRAPERIES SHALL BE NON-COMBUSTIBLE OR FLAME RESISTANT IN ACCORDANCE WITH NFPA 701. OWNER TO PROVIDE CERTIFICATION, INSTALL MAXIMUM OCCUPANT CONTENT SIGN IN ALL ASSEMBLY AREAS IN ACCORDANCE WITH THE IBC, DOORS INTO ELECTRICAL/MECHANICAL ROOMS SHALL BE LABELED WITH APPROPRIATE SIGNAGE PER IFC 605.3.1, A SIGN STATING 'EXIT' IN VISUAL CHARACTERS, RAISED CHARACTERS AND BRAIL, COMPLYING WITH ICC A117.1, SHALL BE PROVIDED ADJACENT TO ALL EXIT STAIRWAYS, PASSAGEWAYS, RAMPS AND DISCHARGES PER 1013.4 OF THE 2018 IBC, CARPETING FOR ALL EXIT ACCESS AREAS SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX OF 0.22 WATTS/SQ. CM IN ACCORDANCE WITH NFPA 253. G.C. TO PROVIDE CERTIFICATION, ALL EXISTING DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCIES IN CONDITIONS OR DIMENSIONS, WHETHER IN THE FIELD OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK, SUSPENDED CEILING SYSTEMS SHALL CONFORM TO C.I.S.C.A. SEISMIC ZONES 3 & 4 FOR SEISMIC RESTRAINT. PROVIDE CEILING GRID EXPANSION JOINTS FOR CEILING AREAS GREATER THAN 2,500 SQ. FT., SUPPORT LAY-IN LIGHTS FROM EACH CORNER OF THE LIGHT TO THE STRUCTURE, IT IS NOT INTENDED THAT THE DRAWINGS SHOW ALL DETAILS OF CONSTRUCTION, BUT THE GENERAL CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ALL MATERIALS NECESSARY TO COMPLETE THE SCOPE OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL PARTS WHICH MAY BE REQUIRED BY THE DRAWINGS AND OMITTED BY THE SPECIFICATIONS OR VICE VERSA, JUST AS THOUGH REQUIRED BY BOTH. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR A QUESTION OF INTENT, THE GENERAL CONTRACTOR SHALL REFER TO THE DESIGNER FOR DECISIONS AND HIS INTERPRETATION SHALL BE FINAL, CONCLUSIVE AND BINDING.

REVISIONS

Project Title: SKYRISE INVESTMENT, LLC RENOVATION PLAN, 1005 RICHLAND STREET, ROCK HILL, SC 29730

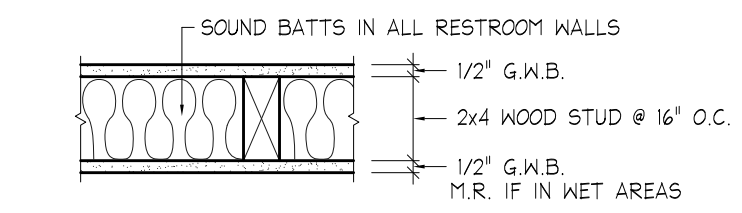
GENERAL INFO

Table with columns for Project No., Drawn By, Checked By, Scale, Sheet No., Date.

CONTRACTORS

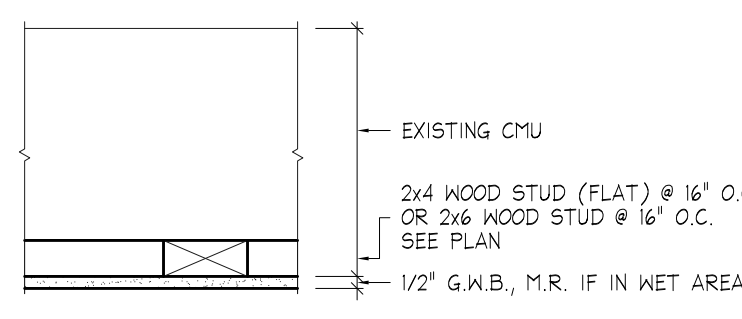
DRAWING INDEX

- General Notes:**
1. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 EDITION OF THE SOUTH CAROLINA BUILDING CODE, AS WELL AS ALL LOCAL BUILDING CODES.
  2. ANY PENETRATIONS INTO RATED ASSEMBLIES SHALL BE PERFORMED SO AS TO NOT ALTER OR DECREASE THE RATING OF THE ASSEMBLY.
  3. APPROVED SIGNS SHALL BE POSTED AT ALL HANDICAPPED ACCESSIBLE ELEMENTS.
  4. A TACTILE SIGN STATING 'EXIT' IN RAISED VISUAL CHARACTERS AND BRAILLE AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE PER IBC 103.4.
  5. ALL DOOR HARDWARE SHALL BE OF APPROVED BARRIER FREE DESIGN THAT REQUIRES NO TWISTING OR TURNING.
  6. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
  7. ALL FIRE RATED PARTITIONS SHALL BE LABELED ABOVE ALL DECORATIVE CEILINGS WITH THE WORDING 'FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS'.
  8. ALL DECORATIVE CURTAINS & DRAPERIES SHALL BE NON-COMBUSTIBLE OR FLAME RESISTANT IN ACCORDANCE WITH NFPA 701. OWNER TO PROVIDE CERTIFICATION.
  9. INSTALL MAXIMUM OCCUPANT CONTENT SIGN IN ALL ASSEMBLY AREAS IN ACCORDANCE WITH THE IBC.
  10. DOORS INTO ELECTRICAL/MECHANICAL ROOMS SHALL BE LABELED WITH APPROPRIATE SIGNAGE PER IFC 605.3.1.
  11. A SIGN STATING 'EXIT' IN VISUAL CHARACTERS, RAISED CHARACTERS AND BRAIL, COMPLYING WITH ICC A117.1, SHALL BE PROVIDED ADJACENT TO ALL EXIT STAIRWAYS, PASSAGEWAYS, RAMPS AND DISCHARGES PER 103.4 OF THE 2018 IBC.
  12. CARPETING FOR ALL EXIT ACCESS AREAS SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX OF 0.22 WATTS/SQ. CM. IN ACCORDANCE WITH NFPA 253. G.C. TO PROVIDE CERTIFICATION.
  13. ALL EXISTING DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE FIELD. ANY DISCREPANCIES IN CONDITIONS OR DIMENSIONS, WHETHER IN THE FIELD OR ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
  14. SUSPENDED CEILING SYSTEMS SHALL CONFORM TO C.I.S.C.A. SEISMIC ZONES 3 & 4 FOR SEISMIC RESTRAINT. PROVIDE CEILING GRID EXPANSION JOINTS FOR CEILING AREAS GREATER THAN 2,500 SQ. FT.
  15. SUPPORT LAY-IN LIGHTS FROM EACH CORNER OF THE LIGHT TO THE STRUCTURE.
  16. IT IS NOT INTENDED THAT THE DRAWINGS SHOW ALL DETAILS OF CONSTRUCTION, BUT THE GENERAL CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ALL MATERIALS NECESSARY TO COMPLETE THE SCOPE OF WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL PARTS WHICH MAY BE REQUIRED BY THE DRAWINGS AND OMITTED BY THE SPECIFICATIONS OR VICE VERSA, JUST AS THOUGH REQUIRED BY BOTH. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR A QUESTION OF INTENT, THE GENERAL CONTRACTOR SHALL REFER TO THE DESIGNER FOR DECISIONS AND HIS INTERPRETATION SHALL BE FINAL, CONCLUSIVE AND BINDING.



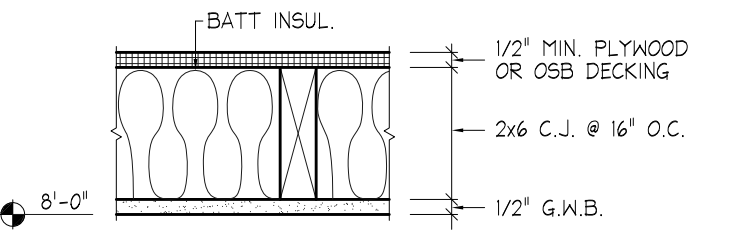
2 WALL TYPE

NO SCALE  
1/A1



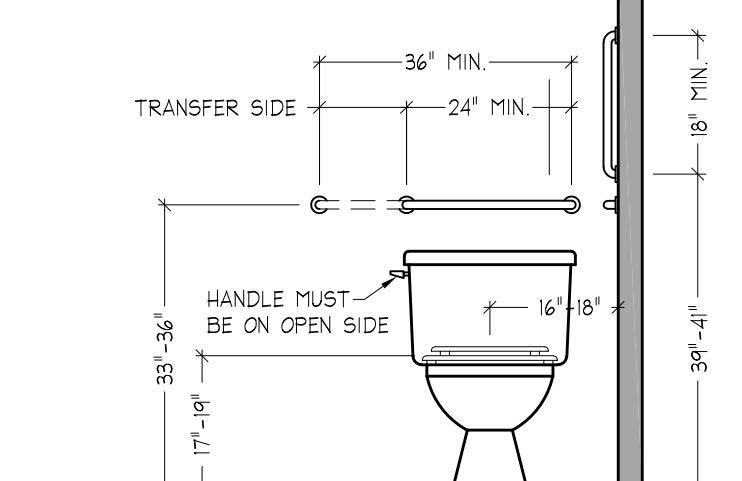
3 WALL TYPE

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1/A1

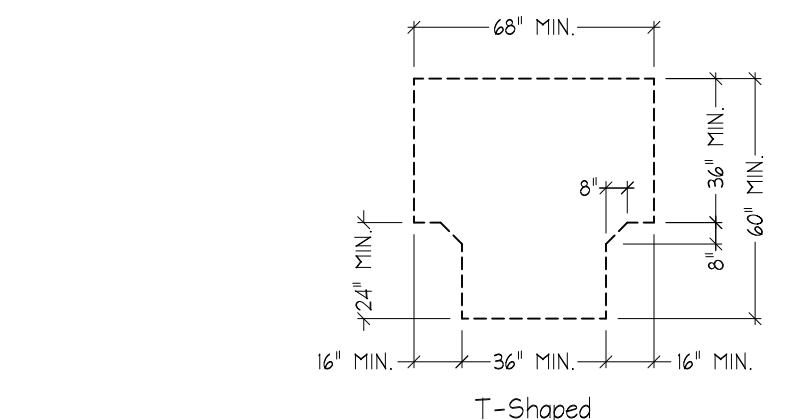
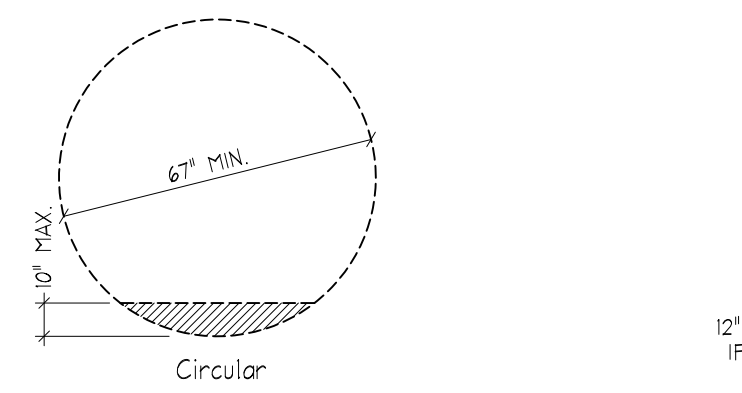


4 CEILING TYPE

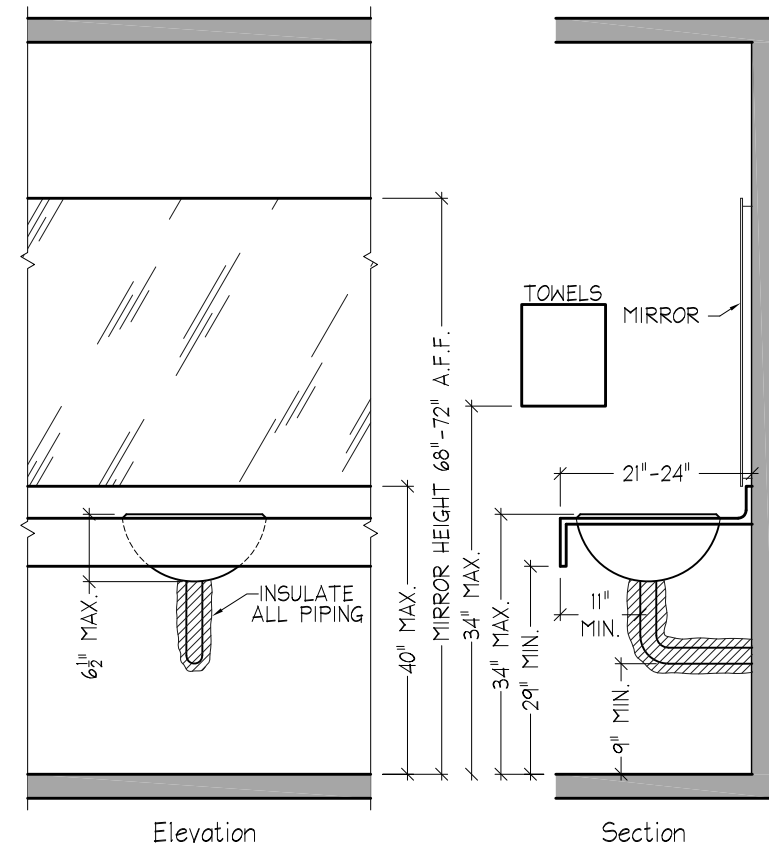
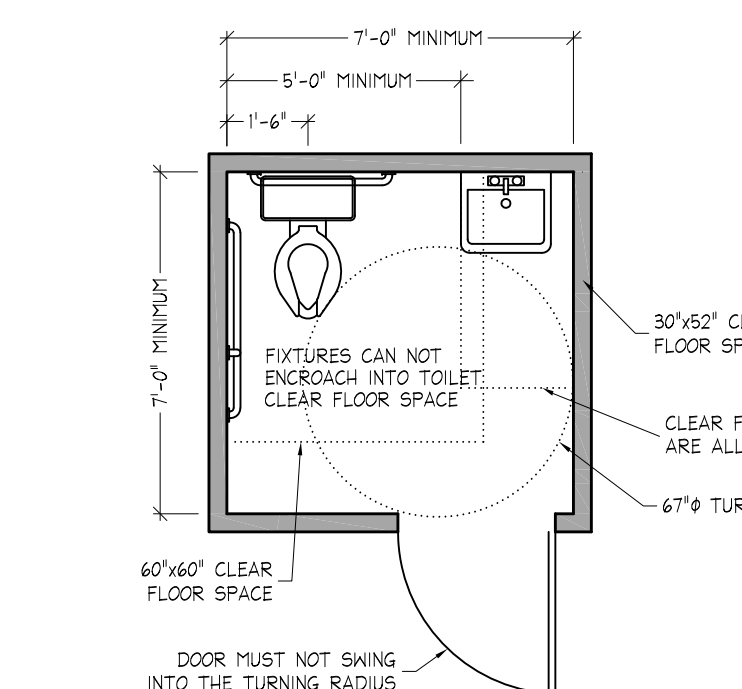
NO SCALE  
1/A1



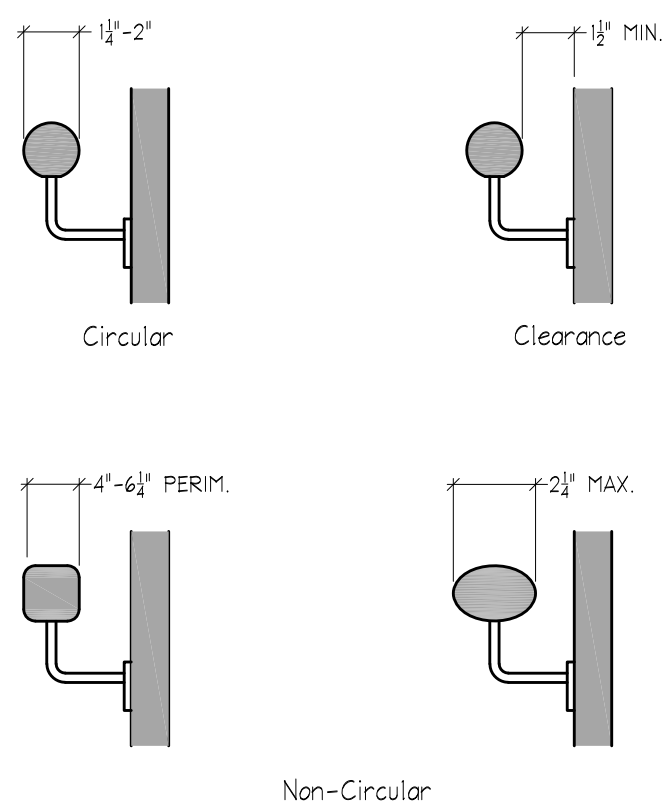
Handicap Accessible Elements At Water Closet



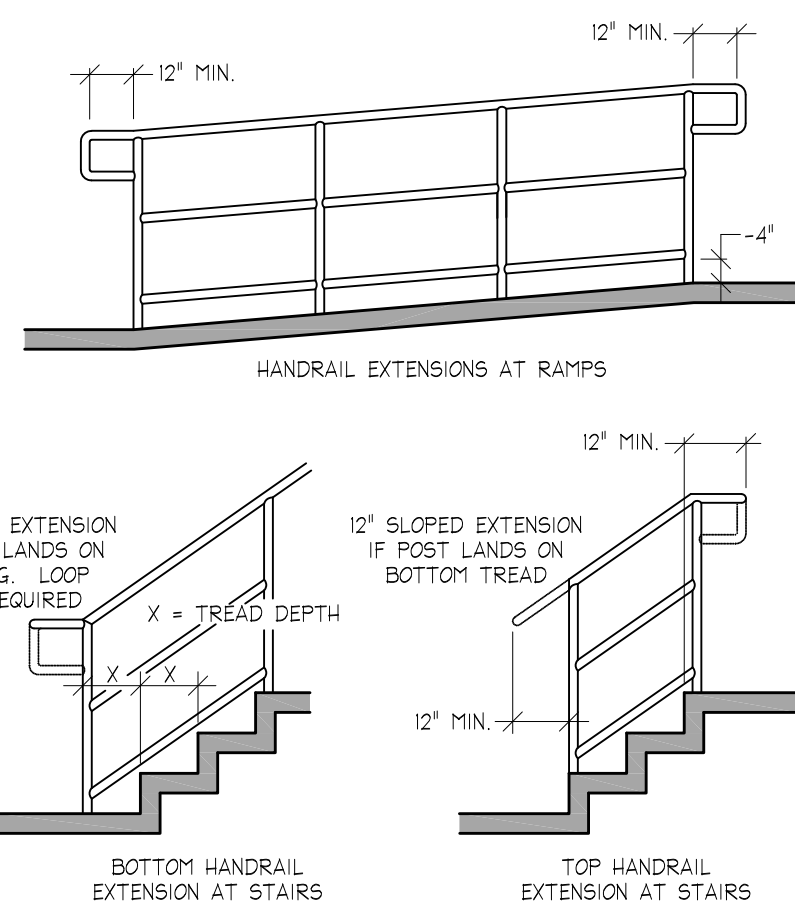
Wheelchair Turning Space 1



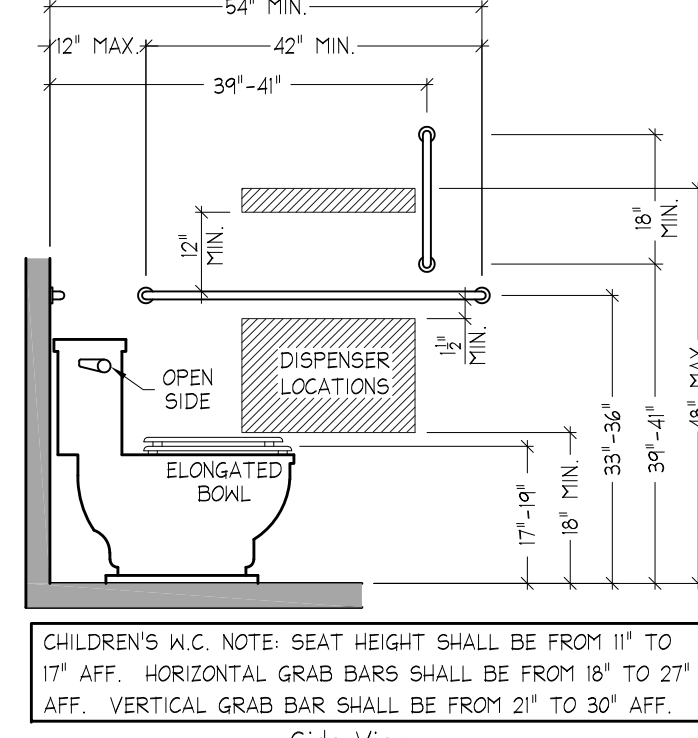
Lavatories And Sinks



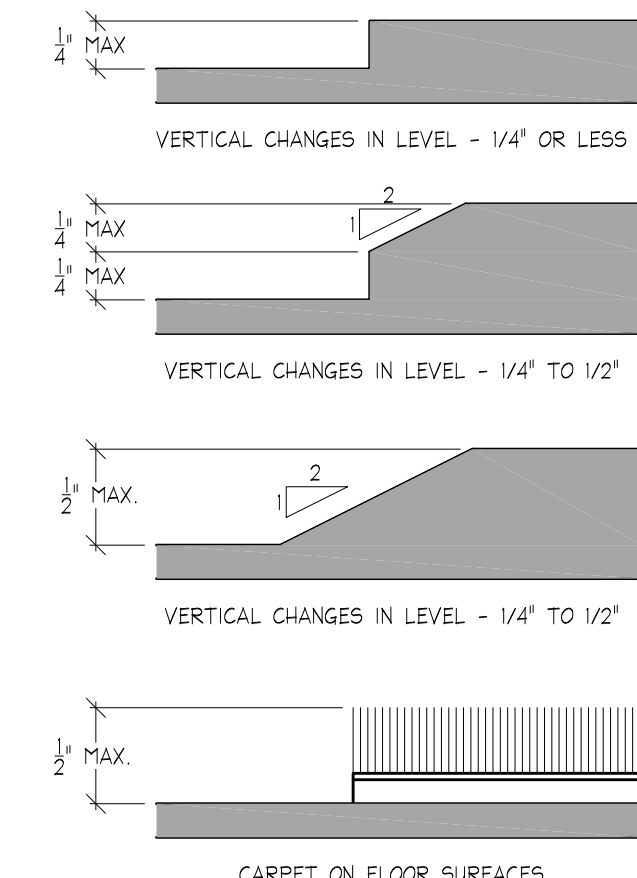
Handrail Cross Section



Handrail Extensions



Handicap Accessible Elements At Water Closet



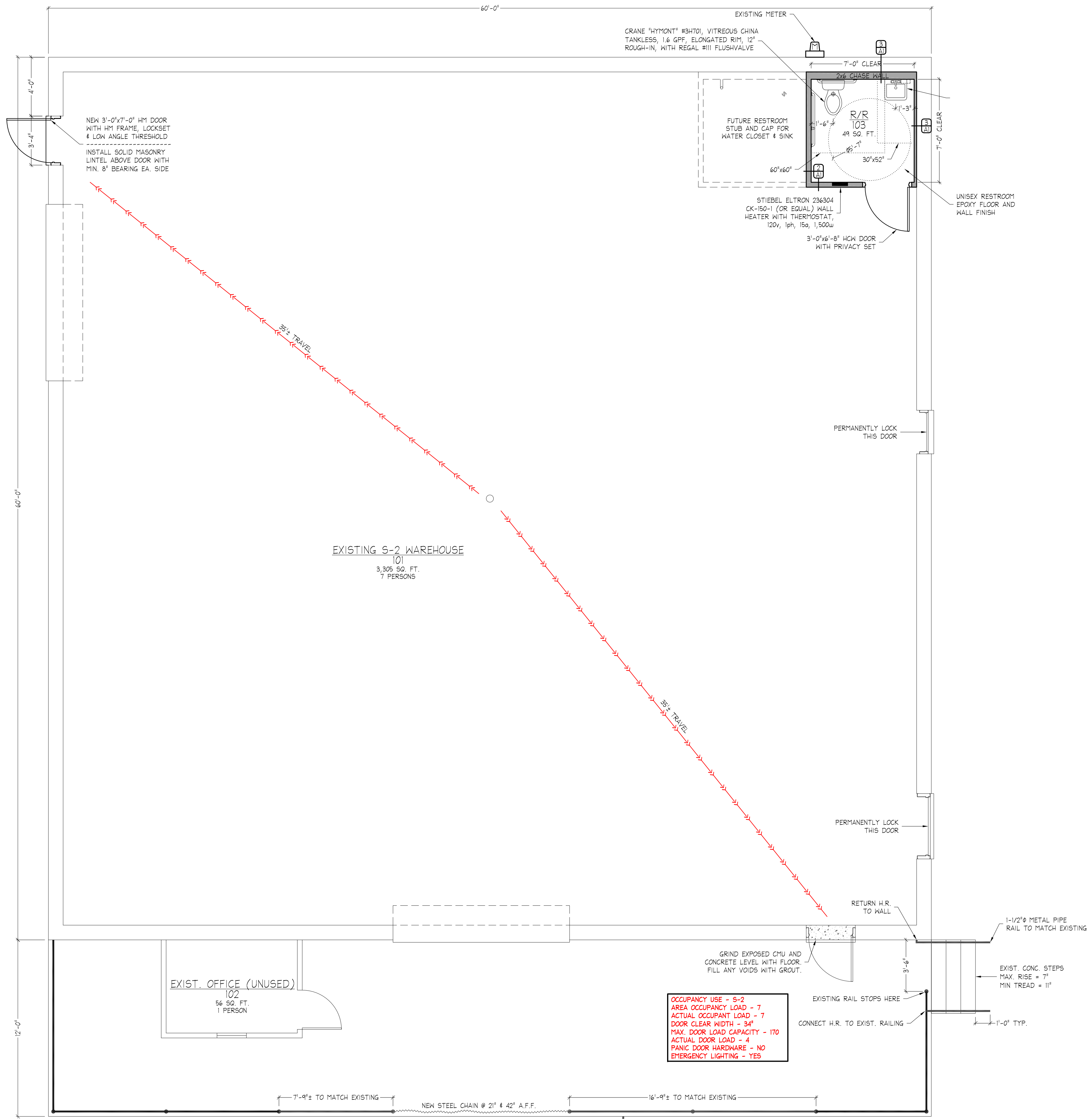
Changes In Floor Level

ASHRAE STANDARD 62.1-2019  
IMC 2018

Skyrise Investment

		REQUIRED OUTSIDE AIR	NO. OF			CFM
AREA	SQ. FT.	NO. OF PEOPLE PER 1000 SQ.FT.	CFM PER PERSON	SQ. FT. PEOPLE	CFM O/A AIR	
WAREHOUSE	3,305		0.12	0	397	
				0	39	
				0	0	
				0	0	
				0	0	
				0	0	
				0	0	
		TOTALS			397	
		REQUIRED EXHAUST AIR	EX. AIR			CFM
AREA	SQ. FT.	NO. OF FIXTURES	CFM PER FIXTURE	CFM PER SQ. FT.	EXHAUST AIR	
BATHROOM	1		70		70	
		TOTALS			70	

OCCUPANCY USE - S-2  
AREA OCCUPANCY LOAD - 7  
ACTUAL OCCUPANT LOAD - 7  
DOOR CLEAR WIDTH - 34"  
MAX. DOOR LOAD CAPACITY - 170  
ACTUAL DOOR LOAD - 3  
PANIC DOOR HARDWARE - NO  
EMERGENCY LIGHTING - YES

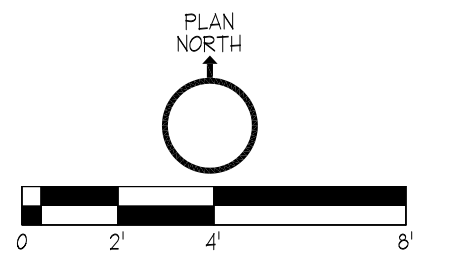


OCCUPANCY USE - S-2  
AREA OCCUPANCY LOAD - 7  
ACTUAL OCCUPANT LOAD - 7  
DOOR CLEAR WIDTH - 34"  
MAX. DOOR LOAD CAPACITY - 170  
ACTUAL DOOR LOAD - 4  
PANIC DOOR HARDWARE - NO  
EMERGENCY LIGHTING - YES

EXISTING S-2 WAREHOUSE  
101  
3,305 SQ. FT.  
7 PERSONS

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

ISSUED FOR CODE REVIEW  
DATE OF ISSUE: 5-3-2023  
THESE PLANS HAVE NOT BEEN APPROVED BY THE BUILDING DEPARTMENT. PLANS SHOULD BE STAMPED 'APPROVED FOR CONSTRUCTION' BY THE BUILDING DEPARTMENT PRIOR TO BIDDING OR CALCULATING TAKE-OFFS.



No.	Description	Date
REVISIONS		

Project Title:  
SKYRISE INVESTMENT, LLC RENOVATION PLAN  
1005 RICHLAND STREET  
ROCK HILL, SC 29730

Sheet Title:  
ARCHITECTURAL

Project No.: 5892  
Drawn By: MAC  
Checked By: MAC  
Scale: AS SHOWN  
Date: 3-9-2023  
Sheet No.: A1

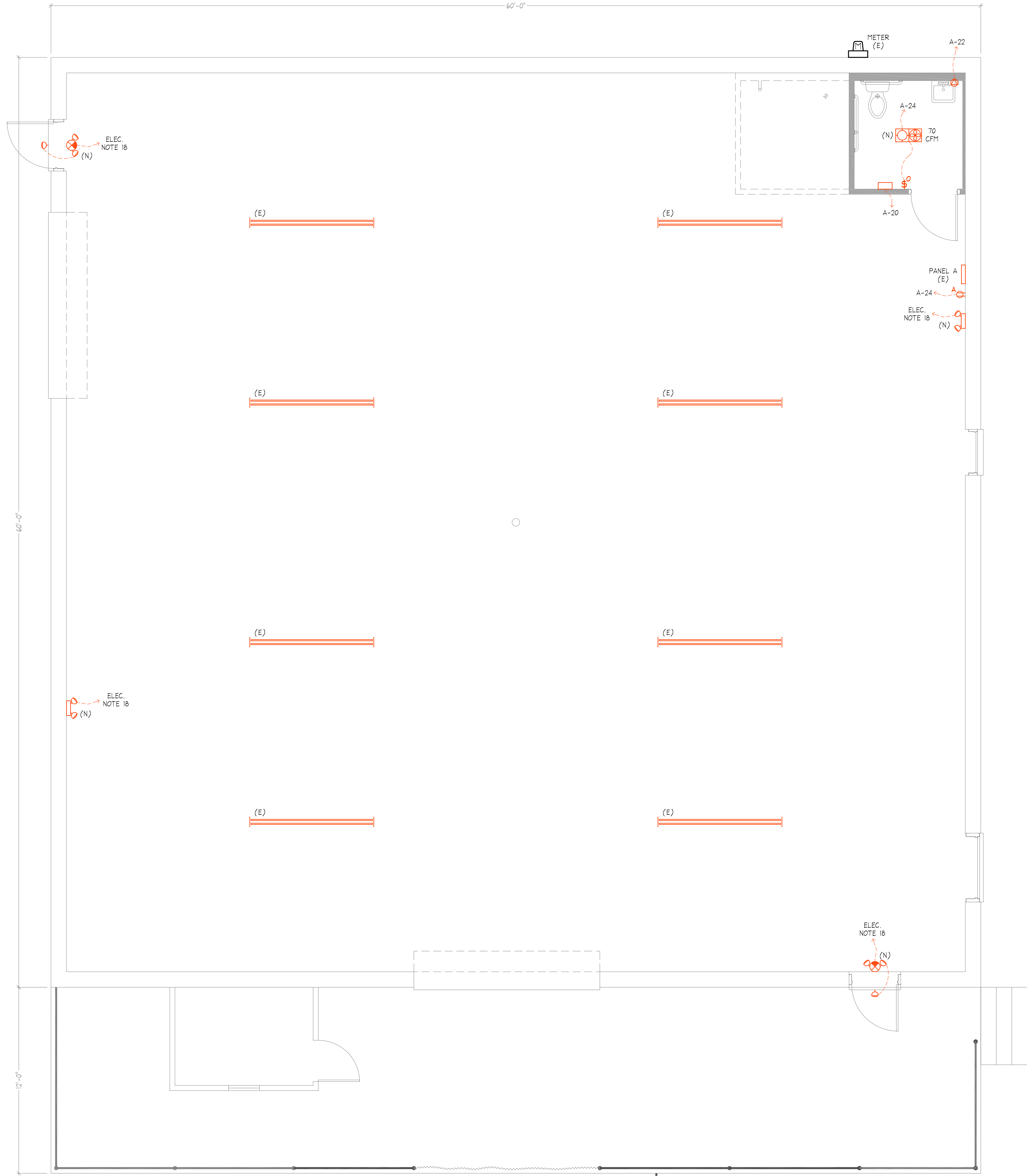
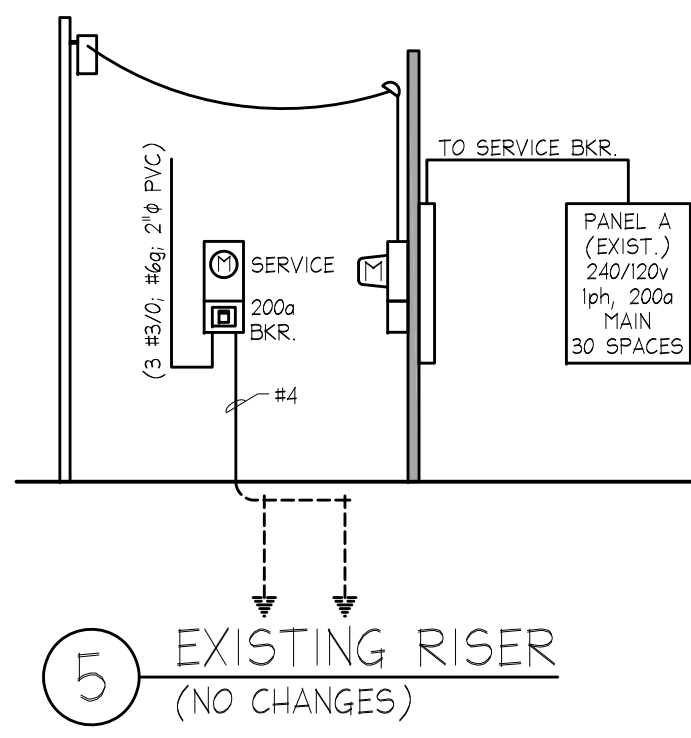
**General Notes:**

- THESE DRAWINGS AND ELECTRICAL INSTALLATIONS WERE PREPARED AND INSTALLED PER THE 2005 EDITION OF THE NATIONAL ELECTRICAL CODE AND THE AUTHORITY HAVING JURISDICTION (AHJ).
- MARKED EQUIPMENT LOCATIONS ARE FOR BEST REFERENCE AND INFORMATION.
- PENETRATIONS THROUGH WALL AND CEILING ASSEMBLIES SHALL NOT ALTER FIRE, WATER, MOISTURE AND AIR CODE RATINGS.
- ALL MATERIALS SHALL BE NEW AND LISTED WITH A U.S. AGENCY SUCH AS: "UL", "MET LABS", "ETL", ETC. MARKS SHOWING "CE" ONLY, WITHOUT AGENCY MARKS, ARE NOT ACCEPTABLE.
- COMMERCIAL APPLICATIONS OF WIRE TYPE "NM" NON-METALLIC SHEATHED CABLE SHALL NOT BE USED.
- PANELBOARDS AND CIRCUITS SHALL BE PERMANENTLY MARKED WITH NAME AND USE.
- MARK A 3' CLEAR FLOOR SPACE IN FRONT OF ALL PANELBOARDS WITH EITHER YELLOW TAPE OR PAINT THE WIDTH OF THE PANELBOARD.
- UNLESS OTHERWISE MARKED, CONDUCTORS SHALL BE COPPER AND SIZED PER PANELBOARD SCHEDULE.
- PER NEC 10.14, 60° C TABLE IS SHOWN FOR WIRING SIZES 100 AND LESS. FIELD USE OF 75° C WIRE TABLE MAY BE USED IF ALL ATTACHED EQUIPMENT IS MARKED AT LEAST 75° C.
- ELECTRICAL CONTRACTOR SHALL VERIFY OLD/NEW EQUIPMENT COMPATIBILITY, FURNISH, INSTALL, AND GUARANTEE FOR ONE YEAR ALL MATERIALS NECESSARY TO COMPLETE THIS SCOPE OF WORK.
- CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER OF ERRORS OR OMISSIONS. THE ENGINEER SHALL RENDER FINAL DECISIONS.
- CONTRACTOR IS RESPONSIBLE AND SHALL ENFORCE THEIR ELECTRICAL WORKER SAFETY POLICIES ON SITE.
- MANUFACTURER'S FLASH PROTECTION WARNING LABELS SHALL BE MARKED ON SWITCH BOARDS, PANEL BOARDS & MOTOR CONTROL CENTERS PER ARTICLE 110.16 AND 110.23 (2017-NEC).
- EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED PER ARTICLE 110.21 (A) AND (B).
- IF APPLICABLE, PROVIDE A 20A DISCONNECT SWITCH AT OVERHEAD DOOR MOTORS FOR MAINTENANCE.
- THE LIGHTING SYSTEM IS DESIGNED TO PROVIDE AN EMERGENCY LIGHTING ILLUMINATION LEVEL OF ONE (1) FOOT CANDLE AT THE WALKING SURFACE FOR A MINIMUM OF NINETY (90) MINUTES UPON A LIGHTING SYSTEM POWER FAILURE.
- IF A DISHWASHER IS SHOWN ON THE DRAWINGS AND IS "PLUG & CORD" CONNECTED, PLACE A GFCI RECEPTACLE BELOW THE SINK FOR POWER, OTHERWISE "HARD WIRE" THE DISHWASHER WITH A SWITCH ABOVE THE COUNTER AS SHOWN.
- CONNECT EMERGENCY LIGHTING AND FLOODS TO THE NEAREST LIGHTING CIRCUIT.

Electrical Equipment Connection Schedule																										
Article 220 Calculations																										
Forward Express, 1005 Richland St Rock Hill																										
*Note: All equipment currents resolved to service voltage.																										
Service Voltage: 240V 1-Ph																										
Phase to Neutral: 120V																										
Service Panel	Connected Equipment Loads	Re-solved Qty	Re-solved Volt	Ph. Poles	Item Amps (120V)	Item Amps (240V)	HP	HP	HP	HP	Per Line (Total)	Duty MCA	Final MCA	A	B	Calc. MOP	DCP Req.	Wire Size	Wire Size	Load, KVA Less *	DCP					
A	Warehouse, 1.2va/SF (Stand)	3000	240	2, 2	0.005						18	1.00	18	18							4.3					
A	Lights LED	120	120	1, 1	0.42						0	1.00	0	0				50	#8	0.0						
A	Lights LED	120	120	1, 1	0.81						0	1.00	0	0				50	#8	0.0						
A	External Lights	120	120	1, 1							0	1.00	0	0				50	#8	0.0						
A	EMGR Lights 120v-Type	4	120	1, 1	0.29						1	1.00	3.2	1				15	#12	0.1	1P-20					
A	G. Purpose Recept	1	120	1, 1	1.90						2	1.00	3.5	2				15	#12	0.2	1P-20					
A		0	120	1, 1							0	1.00	0	0						0.0	1P-20					
*Final Art 220 Light & Recept., Standard Calc or Actuals: Standard																										
A	Tankless W.H., 2.4KW	1	120	1, 1	21.0						0	21.00	21	21				30	#10	2.5	1P-30					
A	Restroom Heater	1	120	1, 1	14.0						0	14.00	14	14				20	#12	1.9	1P-20					
Final Article 220 Connected Load Entrance Current															55		18		0		Amps		4		KVA*	
Panel Frame Size 240/120V															200		Amps (125) Capacity		19		Amps*					
Qty and Wire Size Per Phase															1		Cu #3/0(200 A)		167,800		cmils					
Tbl. 250.66 Electrode Grounding Conductor (Rod)															#4		Cu									
250.102(C)(1) Min Neutral Size/Main Bonding Jumper-12.3%															#4		Cu									

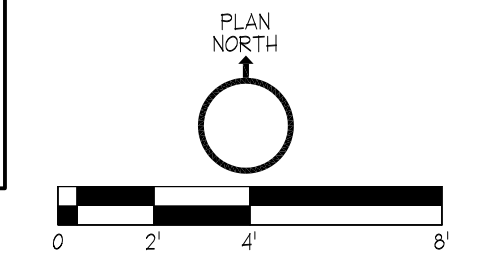
Service Load Summary	
Forward Express, 1005 Richland St Rock Hill	
Total Electrical For Project at 240/120v, 1-Ph	
Connected Loads	Connected KW
Internal Lights	6.3
External Lights	0.0
Water Heating	2.5
HVAC, RTUs	0.0
AHUs	1.4
Motors	0.0
Food Service	0.0
Receptacles (OKVA New)	11.7
Misc. Machines	0.0
Future Loads	0.0
<b>Total Connected KW:</b>	<b>21.9</b>
<b>Total Connected Amps:</b>	<b>91</b>
<b>Calc. Peak KW</b>	<b>2</b>
<b>Calc. Peak Amps</b>	<b>10</b>

Forward Express, 1005 Richland St Rock Hill									
Panel A									
240/120 1-Ph 3-W									
200A Main									
10KA Breakers Min.									
AIC= 4310									
Service	Wire Size*	KVA	Bkr Size	Bkr Size	KVA	Wire Size*	Service	Wire Size*	KVA
	1	A	2						
	3	B	4						
	5	A	6						
	7	B	8						
	9	A	10						
	11	B	12						
	13	A	14						
	15	B	16						
	17	A	18						
	19	B	20	1P-20	1.9	#12	RestRoom Heater		
	21	A	22	1P-30	2.4	#10	Tankless W.H. R.Room		
	23	B	24	1P-20	0.2	#12	RestRoom, Receptacle		
	25	A	26	1P-20	1.4	#12	Lights/Spare (Split Bkr)		
	27	B	28	1P-20	1.4	#12	Lights		
	29	A	30						
Panel Load/Phase		A	3.8	KVA	32	Amps			
Connected As Shown		B	3.5	KVA	30	Amps			
Total Panel			7	KVA					
Total Amps			31	Amps					
Revisions									
Rev 0	3/10/23								



NOTE:  
THE ELECTRICAL SYSTEM ON THIS DRAWING HAS BEEN DRAFTED IN RED INK. USE A PRINTING SERVICE THAT WILL PRINT THIS DRAWING IN COLOR FOR OPTIMUM CLARITY.

ISSUED FOR CODE REVIEW  
DATE OF ISSUE: 5-3-2023  
THESE PLANS HAVE NOT BEEN APPROVED BY THE BUILDING DEPARTMENT. PLANS SHOULD BE STAMPED 'APPROVED FOR CONSTRUCTION' BY THE BUILDING DEPARTMENT PRIOR TO BIDDING OR CALCULATING TAKE-OFFS.



No.	Description	Date
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**REVISIONS**

Project Title:  
**SKYRISE INVESTMENT, LLC RENOVATION PLAN**  
1005 RICHLAND STREET  
ROCK HILL, SC 29730

**ELECTRICAL**

Project No.: 5892

Drawn By: MAC  
Checked By: MAC

Scale: AS SHOWN  
Sheet No.: E1

Date: 3-9-2023