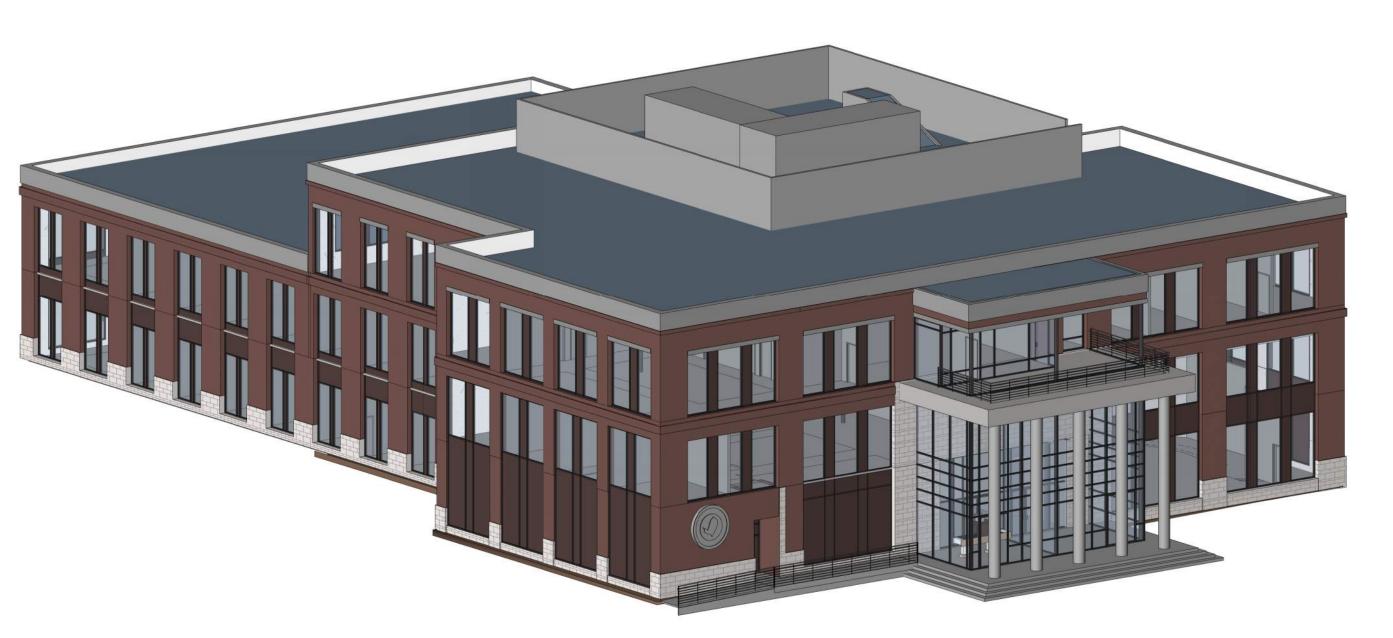
ROCKDALE COUNTY JUDICIAL AND ADMINISTRATION COMPLEX

ROCKDALE COUNTY



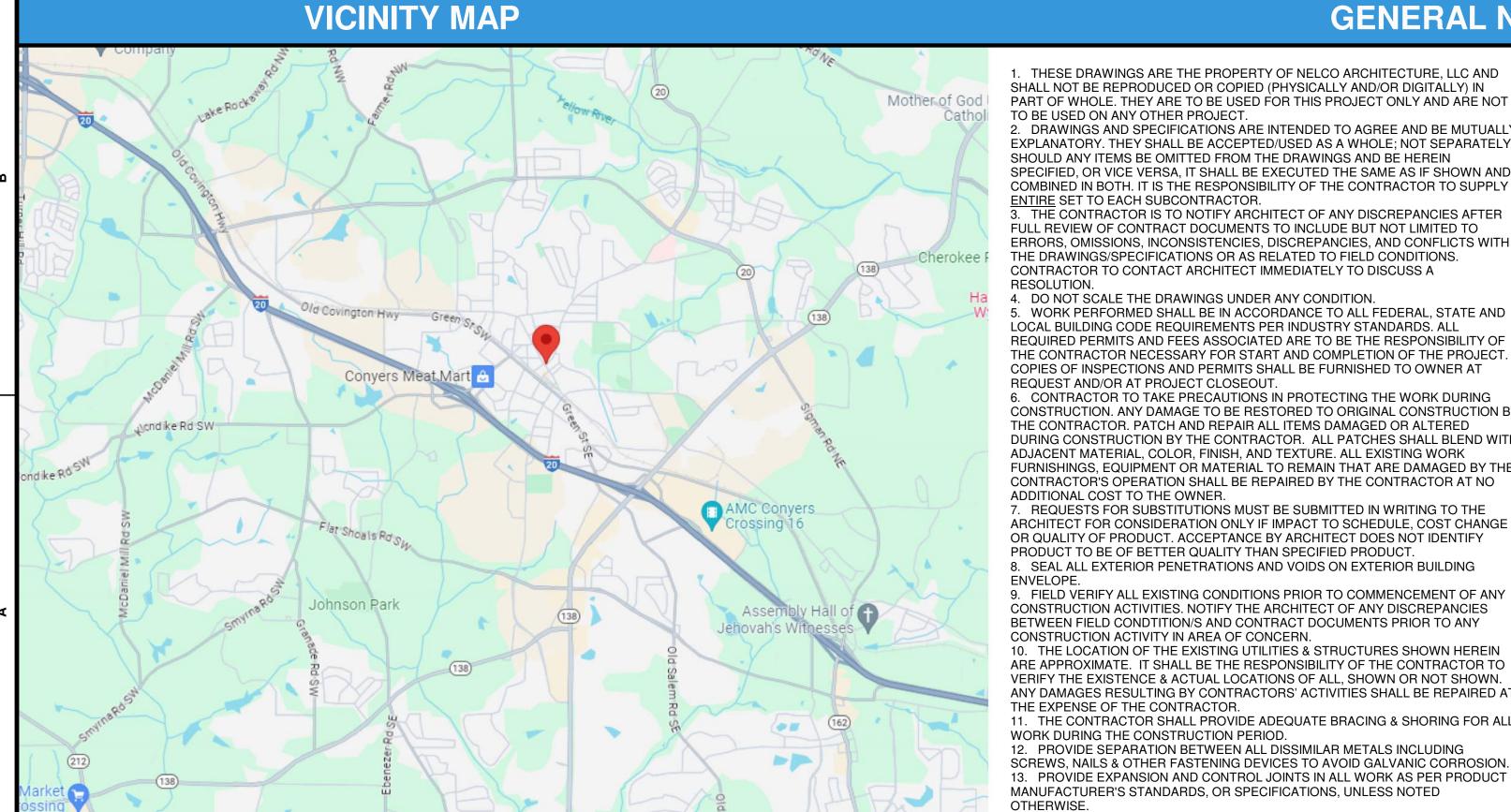


NELSON

SCHEMATIC DESIGN - FEBRUARY 8, 2024

٥	PROJECT DIRECTOR	RY	ABBREV	IATIONS	SYMBO	LS		CODE INFORMA	ATION	
OWNER:	ROCKDALE COUNTY BOARD OF COMMISSIONERS 958 MILSTEAD AVE NE, CONYERS, GA 30012		AT ACT ACOUSTICAL CEILING TILE A.F.F. ABOVE FINISHED FLOOR ALUM. ALUMINUM	G.C. GENERAL CONTRACTOR GYP. BD. GYPSUM BOARD H.M. HOLLOW METAL	1 A-3.1 ELEVATION MARK SECTION MARK 'SIM' - SIMILAR	BATT INSULATION EARTH	APPLICABLE CODES INTERNATIONAL BUILDING CODE INTERNATIONAL PLUMBING CODE INTERNATIONAL MECHANICAL CODE INTERNATIONAL FUEL GAS CODE	2018 EDITION; GA AMENDMENTS (2018, 2020, 20 2018 EDITION; GA AMENDMENTS (2020, 202 2018 EDITION; GA AMENDMENTS (2020) 2018 EDITION; GA AMENDMENTS (2020, 202	22)	
ROCKDALE COUNTY JUDICIAL AND ADMINISTRATION COMPLEX PRIME ARCHITECTS	CUMMING, GA 30040	W 33-5992 ERICHO-DESIGN.COM	B/ BOTTOM OF BD. BOARD BLDG. BUILDING BR BRICK BRG BEARING CFMF COLF FORMED METAL FRAMING C.L. CENTER LINE CLR CLEAR	HT HEIGHT I.B.C. INSTALLED BY CONTRACTOR JT. JOINT L.L. LANDLORD MFR. MANUFACTURER MAT. MATERIAL MAX. MAXIMUM MECH. MECHANICAL	OH' - OPPOSITE HAND ENLARGED PLAN / DETAIL MARK	GRANULAR CONCRETE	INTERNATIONAL ENERGY CONSERVATION CODE INTERNATIONAL FIRE CODE NATIONAL ELECTRIC CODE ACCESSIBILITY NFPA 101 LIFE SAFETY CODE	2015 EDITION; GA AMENDMENTS (2020, 2022) 2018 EDITION 2020 EDITION; GA AMENDMENTS (2020, 2022) 2010 EDITION CHAPTER 120-3-20 ACCESSIBILITY CODE FOR E LAW O.C.G.A. 30-3 IBC 2018 2018 EDITION	BUILDINGS & FACILITIES - STATE	
ADMINISTRATION BUILDING ARCHITECT OF	NELSON WORLDWIDE BRIAN LACH. 5200 AVALON BLVD TEL: 678-533 ALPHARETTA, GA 30009 BLACHAT@N	HAT 33-1057 PNELSONWW.COM	C.J. CONTROL JOINT CMU CONCRETE MASONRY UNIT COORD. COORDINATE COL COLUMN CONC. CONCRETE CONT. CONTINUOUS Ø DIAMETER	MIN. MINIMUM MTL. METAL NC. NON-COMBUSTIBLE N.I.C. NOT IN CONTRACT N.T.E. NOT TO EXCEED N.T.S. NOT TO SCALE O.D. OVERFLOW DRAIN	O01 DOOR REFERENCE NUMBER OFFICE [101] ROOM NAME & NUMBER	BRICK STEEL, IRON	R- VALUE METHOD: 2015 INTERNATIONAL ENERGY CONSERVATION CODE TA CLIMATE ZONE #3 CODE REQUIREMENT	CHAPTER 120-3-3 RULES AND REGULATIONS F STATE MINIMUM FIRE STANDARDS IN GEORGIA	AUIREMENTS	- <u> </u>
STRUCTURAL:	SHEAR STRUCTURAL KAREN JENK 3411 PIERCE DRIVE TEL: PHONE SUITE 100 KJENKINS@S CHAMBLEE, GA 30341		DWG. DRAWING D.S. DOWN SPOUT EA. EACH ELEV. ELEVATION ELEC. ELECTRIC E.S. EQUIPMENT SUPPLIER EXP. EXPANSION	OPP. OPPOSITE PL. PLASTIC LAMINATE PLYWD. PLYWOOD PR. PAIR P.T. PRESSURE TREATED O.C. ON CENTER R.D. ROOF DRAIN	COLUMN AND GRID NUMBER SF-1 WINDOW REFERENCE NUMBER	WOOD MORTAR NET	R-25CI INSULATION ENTIRELY ABOVE RO R-13 + R5CI INSULATION @ METAL STUD FRA N/R NOT REQUIRED AT UNHEATED SI CI = CONTINUOUS INSULATION	AMES WALL WALLS		
MECHANICAL ELECTRICAL & PLUMBING:	HAMMOND ENGINEERS 6961 PEACHTREE INDUSTRIAL BLVD SUITE 208 NORCROSS, GEORGIA 30092 DARRYLB@F		EXT. EXTERIOR E.W.C. ELECTRIC WATER COOLER F.D. FLOOR DRAIN FEC FIRE EXTINGUISHER CABINET F.F. FINISHED FLOOR FL. FLOOR F.O. FACE OF	S.B.O. SUPPLIED BY OWNER SCHED. SCHEDULE SIM. SIMILAR STL. STEEL STRUCT. STRUCTURAL T/ TOP OF T&G TONGUE AND GROOVE	SOLID GROUT WOOD DIMENSIONAL	RIGID INSULATION			PROJECT SCOPE: THE PROJECT IS A NEW FOUR-STORY,STEEL FRAMED COUNTY ADMINISTRATION BUILDING CONSISTING OF APPROXIMATELY GROSS SQUARE FEET.	С
CIVIL:	BREEDLOVE LAND PLANNING, INC. 15 SIMPSON ST NW ATLANTA, GA 30308 GCARAWAYO		F.O.F. FACE OF FINISH F.O.M. FACE OF MASONRY FOIC FURNISHED BY OWNER INSTALLED BY CONTRACTOR F.R. FIRE RETARDANT FRAN. FRANCHISEE FRP FIBERGLASS REINFORCED POLYESTER	TYP. TYPICAL U.N.O. UNLESS NOTED OTHERWISE VERT. VERTICAL VWC VINYL WALL COVERING W WIDE W/ WITH WD. WOOD W.W.F. WELDED WIRE FABRIC	SHEATHING PLASTER, GYPSUM WALLBOARD					

GENERAL NOTES



SHALL NOT BE REPRODUCED OR COPIED (PHYSICALLY AND/OR DIGITALLY) IN PART OF WHOLE. THEY ARE TO BE USED FOR THIS PROJECT ONLY AND ARE NOT TO BE USED ON ANY OTHER PROJECT. . DRAWINGS AND SPECIFICATIONS ARE INTENDED TO AGREE AND BE MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT SEPARATELY. SHOULD ANY ITEMS BE OMITTED FROM THE DRAWINGS AND BE HEREIN SPECIFIED, OR VICE VERSA, IT SHALL BE EXECUTED THE SAME AS IF SHOWN AND COMBINED IN BOTH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ENTIRE SET TO EACH SUBCONTRACTOR.

THE CONTRACTOR IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AFTER FULL REVIEW OF CONTRACT DOCUMENTS TO INCLUDE BUT NOT LIMITED TO ERRORS, OMISSIONS, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITH THE DRAWINGS/SPECIFICATIONS OR AS RELATED TO FIELD CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT IMMEDIATELY TO DISCUSS A 4. DO NOT SCALE THE DRAWINGS UNDER ANY CONDITION.

5. WORK PERFORMED SHALL BE IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS PER INDUSTRY STANDARDS. ALL REQUIRED PERMITS AND FEES ASSOCIATED ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR NECESSARY FOR START AND COMPLETION OF THE PROJECT. COPIES OF INSPECTIONS AND PERMITS SHALL BE FURNISHED TO OWNER AT REQUEST AND/OR AT PROJECT CLOSEOUT. 6. CONTRACTOR TO TAKE PRECAUTIONS IN PROTECTING THE WORK DURING

CONSTRUCTION. ANY DAMAGE TO BE RESTORED TO ORIGINAL CONSTRUCTION BY THE CONTRACTOR. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION BY THE CONTRACTOR. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE, ALL EXISTING WORK FURNISHINGS. EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. 7. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE

ARCHITECT FOR CONSIDERATION ONLY IF IMPACT TO SCHEDULE, COST CHANGE OR QUALITY OF PRODUCT. ACCEPTANCE BY ARCHITECT DOES NOT IDENTIFY PRODUCT TO BE OF BETTER QUALITY THAN SPECIFIED PRODUCT. 8. SEAL ALL EXTERIOR PENETRATIONS AND VOIDS ON EXTERIOR BUILDING 9. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY

CONSTRUCTION ACTIVITIES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDTITION/S AND CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION ACTIVITY IN AREA OF CONCERN 10. THE LOCATION OF THE EXISTING UTILITIES & STRUCTURES SHOWN HEREIN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE & ACTUAL LOCATIONS OF ALL, SHOWN OR NOT SHOWN. ANY DAMAGES RESULTING BY CONTRACTORS' ACTIVITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING & SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.

12. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS & OTHER FASTENING DEVICES TO AVOID GALVANIC CORROSION. 13. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS, OR SPECIFICATIONS, UNLESS NOTED OTHERWISE.

14. ALL DIMENSIONS ARE WITNESSED TO THE OUTSIDE FACE OF MASONRY, FACE OF STUD, CENTER OF COLUMN, TOP OF STRUCTURAL CONCRETE SLAB OR $\overline{}$

ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE.

TO RELATED DRAWINGS AND DETAILS. 16. INTERIOR PARTITION MOVEMENT CONTROL - VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION. UNLESS NOTED OTHERWISE. 17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION. 18. THE PROJECT AND ALL INTERIOR SPACES SHALL BE COMPLETELY OPERATIONAL UPON TURNOVER OF SPACE, THESE ARE TO INCLUDE SYSTEMS NOT LIMITED TO ARCHITECTURAL, INTERIORS, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS. 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, REGISTERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC. WITH STRUCTURAL MECHANICAL AND ELECTRICAL CONTRACTORS. 20. BOLTING OF WOOD TO STRUCTURAL MEMBERS SHALL BE WITH A MINIMUM OF 1/2" BOLTS X 4'-0" O.C. UNLESS NOTED OTHERWISE ON CONSTRUCTION DOCUMENTS AND/OR SPECIFICATIONS. 21. ALL EXTERIOR LUMBER EXPOSED TO MOISTURE SHALL BE PRESSURE PRESERVATIVE TREATED. 22. CONTRACTOR SHALL COMPLY WITH STATE BUILDING CODES IN FIRESTOPPING ALL FLOOR PENETRATIONS. 23. METAL STUDS AND HANGER WIRE ARE NOT TO BE ATTACHED DIRECTLY TO FLOOR/CEILING MTL DECKING. ATTACH TO STRUCTURAL STEEL, BAR JOIST, MISCELLANEOUS STEEL OR CONCRETE STRUCTURE ONLY. IF THE TOP TRACK OF THE METAL STUDS AND HANGER WIRE MUST BE CONNECTED TO METAL DECK, SEE STRUCTURAL NOTES FOR ATTACHMENT CRITERIA. 24. GENERAL: <u>ALL WOOD FRAMING/BLOCKING</u> IN TYPE <u>II</u> CONSTRUCTION <u>SHALL BE</u> FIRE RETARDANT TREATED WOOD IN ACCORDANCE WITH 2018 IBC SECTION 603. 25. IF EVIDENCE SUGGESTS THE PRESENCE OF MOLD ON, BEHIND OR WITHIN SURFACES OR MATERIALS (I.E., INCLUDING, BUT NOT LIMITED TO EXISTING GYPSUM BOARD, EXISTING FLOOR FINISHES AND/OR EXISTING CEILING TILE), IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AREA, REMOVE PORTION OF MATERIAL WITH MOLD AND PATCH/REPAIR TO LIKE NEW CONDITION. 26. ANY ALTERATION OR ANY INSTALLATION OF EQUIPMENT SHALL MEET AS NEARLY AS PRACTICABLE THE REQUIREMENTS FOR NEW CONSTRUCTION IN ACCORDANCE WITH NFPA 101: 4.6.7, 2018 EDITION. 27. ALL DEMOLITION WORK SHALL COMPLY WITH THE REQUIREMENT OF NFPA 241. STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2018 EDITION. 28. ALL ALTERATIONS OR MODIFICATIONS TO EXISTING BRANCH LINES OF THE EXISTING SPRINKLER SYSTEM SHALL BE SUBMITTED ALONG WITH HYDRAULIC CALCULATIONS TO THE STATE FIRE MARSHALL FOR APPROVAL IS WORK IS OUTSIDE THE SCOPE OF SECTIONS 4.4.1 THROUGH 4.4.4 OF THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISIONER, CHAPTER 120-3-3, WHICH ADDS SECTION 4.4 TO 29. THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EXPOSED CONDUITS, MEP UNITS, PIPING, DUCTING, CABLES, RACEWAYS, (AND OTHER

COMPONENTS IN THE EXPOSED OVERHEAD) AND APPURTENANCES, PARALLEL TO THE

BUILDING FRAME PRINCIPAL GRIDS, ALL TURNS MADE AT RIGHT ANGLES, NEATLY

CONNECTED, SPLICED, TAPED, SEALED, FASTENED AND PAINTED TO THE

SATISFACTION OF THE OWNER.

15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS.

SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED

PRINT RECORD No. DATE **DESCRIPTION** 02/08/2023 SD Package

Drawn By **Checked By** Checker Job No. 23.0002839.000 **Sheet Title**

COVER SHEET

DRA	WING INDEX	
Sheet Number	Sheet Name	Sheet Issue Date
01 COVER		·
CS-1.01	COVER SHEET	02/08/2024
CS-1.02	INDEX OF DRAWINGS	02/08/2024
02 SITE		
AS-0.1	ARCHITECTURAL SITE PLAN	02/08/2024
03 LIFE SAFE	TY	
LS-1.01	LIFE SAFETY PLAN - BASEMENT	02/08/2024
LS-1.02	LIFE SAFETY PLAN - PLAZA LEVEL	02/08/2024
LS-1.03	LIFE SAFETY PLAN - SECOND LEVEL	02/08/2024
LS-1.04	LIFE SAFETY PLAN - THIRD LEVEL	02/08/2024
07 ARCHITE	CTURAL	
A-0.01	OVERALL FLOOR PLAN - BASEMENT LEVEL	02/08/2024
A-0.02	OVERALL FLOOR PLAN - PLAZA LEVEL	02/08/2024
A-0.03	OVERALL FLOOR PLAN - SECOND LEVEL	02/08/2024
A-0.04	OVERALL FLOOR PLAN - THIRD LEVEL	02/08/2024
A-0.05	OVERALL FLOOR PLAN - ROOF LEVEL	02/08/2024
A-4.01	EXTERIOR RENDERINGS	02/08/2024
A-4.02	EXTERIOR RENDERINGS	02/08/2024
A-4.03	EXTERIOR RENDERINGS	02/08/2024
A-4.04	AXONOMETRIC VIEWS	xx/xx/xx
A-4.05	EXTERIOR ELEVATIONS	02/08/2024
A-4.06	EXTERIOR ELEVATIONS	02/08/2024
A-5.01	BUILDING SECTIONS	02/08/2024



1 SCHEMATIC DESIG

DMINISTRATIVE COMPLEX

PRINT RECORD

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INDEX OF DRAWINGS

Sheet No.

CS-1.02



E COUNTY JUDICIAL AND
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ION BUILDING - PHASE 1 SCHEMATIC DE

PRINT RECORD

No. DATE DESCRIPTION

1 02/08/2023 SD Package

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ARCHITECTURAL SITE PLAN

Sheet No.

AS-0.1

NOT FOR CONSTRUCTION

CODE REVIEW REFRENCE NOTES

IMC, CHAPTER 6

IMC 602.2.1 MATERIALS WITHIN PLENUMS EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.8, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR

NFPA, LSC 101 , CHAPTER 8 8.5.6.2 PENETRATIONS IN SMOKE BARRIERS

PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A SMOKE BARRIER, OR THROUGH THE CEILING MEMBRANE OF THE ROOF/CEILING OF A SMOKE BARRIER ASSEMBLY, SHALL BE PROTECTED BY A SYSTEM OR MATERIAL CAPABLE OF RESTRICTING THE TRANSFER OF SMOKE.

8.6.1 FLOOR SMOKE BARRIERS

EVERY FLOOR THAT SEPARATES STORIES IN A BUILDING SHALL MEET THE FOLLOWING CRITERIA: 1. IT SHALL BE CONSTRUCTED AS A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5. 2. IT SHALL BE PERMITTED TO HAVE OPENINGS AS DESCRIBED BY 8.6.6, 8.6.7, 8.6.8, 8.6.9, OR CHAPTERS 11

UNLESS PROHIBITED BY CHAPTERS 11 THROUGH 43, UNENCLOSED FLOOR OPENINGS FORMING A COMMUNICATING SPACE BETWEEN FLOOR LEVELS SHALL BE PERMITTED, PROVIDED THAT THE FOLLOWING 1. THE COMMUNICATING SPACE DOES NOT CONNECT MORE THAN THREE CONTIGUOUS STORIES.

2. THE LOWEST OR NEXT-TO-LOWEST STORY WITHIN THE COMMUNICATING SPACE IS A STREET FLOOR. 3. THE ENTIRE FLOOR AREA OF THE COMMUNICATING SPACE IS OPEN AND UNOBSTRUCTED, SUCH THAT A FIRE IN ANY PART OF THE SPACE WILL BE READILY OBVIOUS TO THE OCCUPANTS OF THE SPACE PRIOR TO THE TIME 4. THE COMMUNICATING SPACE IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY FIRE BARRIERS

WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING, UNLESS ONE OF THE FOLLOWING IS MET: IN BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7, A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5 SHALL BE PERMITTED TO SERVE AS THE SEPARATION REQUIRED BY 8.6.6 (4).

 THE REQUIREMENT OF 8.6.6(4) SHALL NOT APPLY TO FULLY SPRINKLERED RESIDENTIAL HOUSING UNITS OF DETENTION AND CORRECTIONAL OCCUPANCIES IN ACCORDANCE WITH 22.3.1(2) AND 23.3.1.1(2). 5. THE COMMUNICATING SPACE HAS ORDINARY HAZARD CONTENTS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7 OR HAS ONLY LOW HAZARD CONTENTS. (SEE 6.2.2.)

6. EGRESS CAPACITY IS SUFFICIENT TO ALLOW ALL THE OCCUPANTS OF ALL LEVELS WITHIN THE COMMUNICATING SPACE TO SIMULTANEOUSLY EGRESS THE COMMUNICATING SPACE BY CONSIDERING IT AS A SINGLE FLOOR AREA IN DETERMINING THE REQUIRED EGRESS CAPACITY. 7. * EACH OCCUPANT WITHIN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO TRAVERSE ANOTHER STORY WITHIN THE COMMUNICATING SPACE. 8. EACH OCCUPANT NOT IN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO ENTER THE COMMUNICATING SPACE.

	Table 506.2	.75 Area Increase	Allowable Area
Allowable Area Assembly A3	28,500	7,125	35,625
Allowable Area Business	69,000	17,250	86,250

 $I_r = [F/P - 0.25]W/30$ Area Increase Due to Frontage 0.75 I=[F/P-0.25]W/30

I=[1-0.25]1 I=0.75 506.2.4 Mixed-Occupancy, Multistory Buildings

A=Atab+(NSxArea factor increase)

A=28,500+(9,500x.75)

A=86,250

 $A_a = [A_t + (NS \times I_t)]$

I-[1191/1191-0.25]30/30

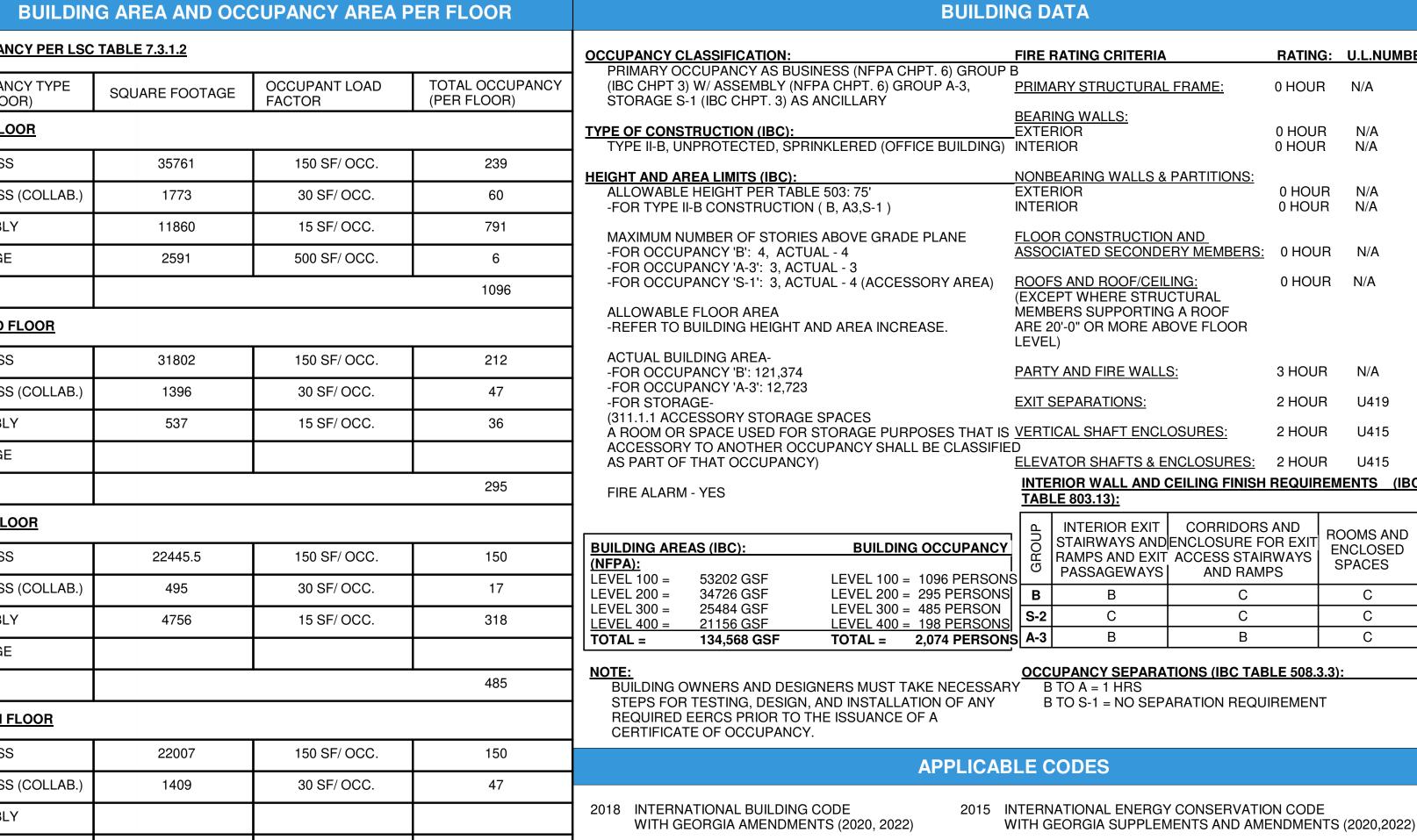
A=35,625 A=Atab+(NSxArea factor increase) A=69,000 +(23000x.75) A=69,000 +(23000x.75)

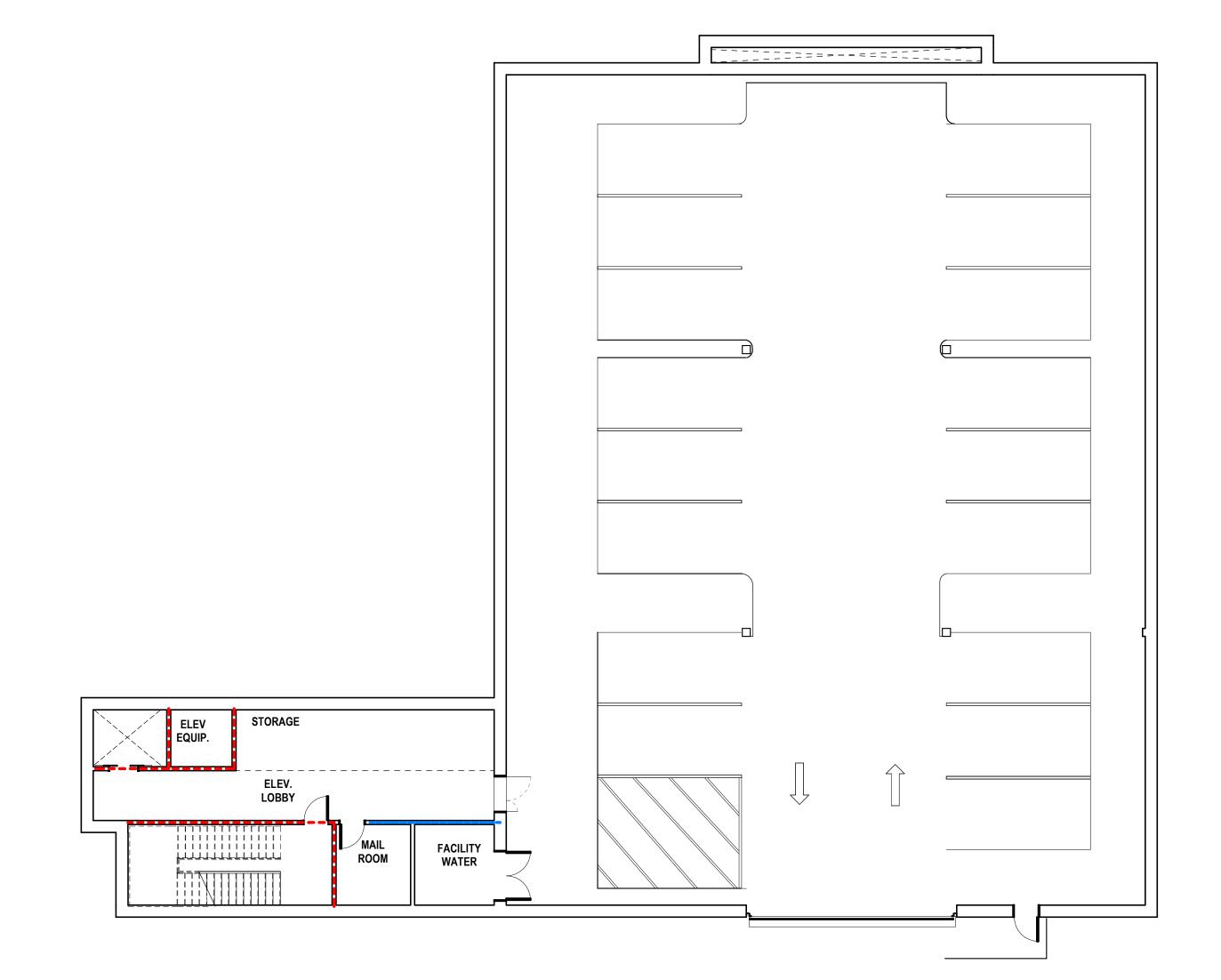
506.2.4 Mixed-Occupancy, Multistory Buildings

Exception: For buildings designed as separated occupancies under Section 508.4 and equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed four.

			Ratio-Actual/Allowable
	Actual	Allowable	
First floor Assembly Actual	11860	35625	0.33
First Floor Business Actual	41125	86250	0.48
Total	52985		0.81
Second floor Assembly Actual	537	35625	0.02
Second Floor Business Actual	33198	86250	0.38
Total	33735		0.40
Third floor Assembly Actual	4756	35625	0.13
Third Floor Business Actual	22940	86250	0.27
Total	27696		0.40
Fourth floor Assembly Actual	0	35625	0.00
Fourth Floor Business Actual	23679	86250	0.27
Total	23679		0.27
Aggregate Sum of the Ratios			1.88

BUILDING AREA AND OCCUPANCY AREA PER FLOOR								
OCCUPANCY PER LSC	TABLE 7.3.1.2							
OCCUPANCY TYPE (PER FLOOR)	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	TOTAL OCCUPANCY (PER FLOOR)					
FIRST FLOOR								
BUSINESS	35761	150 SF/ OCC.	239					
BUSINESS (COLLAB.)	1773	30 SF/ OCC.	60					
ASSEMBLY	11860	15 SF/ OCC.	791					
STORAGE	2591	500 SF/ OCC.	6					
TOTAL			1096					
SECOND FLOOR								
BUSINESS	31802	150 SF/ OCC.	212					
BUSINESS (COLLAB.)	1396	30 SF/ OCC.	47					
ASSEMBLY	537	15 SF/ OCC.	36					
STORAGE								
TOTAL			295					
THIRD FLOOR								
BUSINESS	22445.5	150 SF/ OCC.	150					
BUSINESS (COLLAB.)	495	30 SF/ OCC.	17					
ASSEMBLY	4756	15 SF/ OCC.	318					
STORAGE								
TOTAL			485					
FOURTH FLOOR								
BUSINESS	22007	150 SF/ OCC.	150					
BUSINESS (COLLAB.)	1409	30 SF/ OCC.	47					
ASSEMBLY								
STORAGE	263	500 SF/ OCC.	1					
TOTAL			198					







	OCCUPANCY CLASSIFICATION:		RATING CRITERIA		RATING	3: U.L.NUMBE
OCCUPANCY	PRIMARY OCCUPANCY AS BUSINESS (NFPA CHPT. 6) GROUP (IBC CHPT 3) W/ ASSEMBLY (NFPA CHPT. 6) GROUP A-3, STORAGE S-1 (IBC CHPT. 3) AS ANCILLARY		ARY STRUCTURAL	FRAME:	0 HOUP	R N/A
,	TYPE OF CONSTRUCTION (IBC):	EXTE	RING WALLS: FRIOR RIOR		0 HOUF 0 HOUF	
239	HEIGHT AND AREA LIMITS (IBC):		BEARING WALLS &	PARTITIONS:		
60	ALLOWABLE HEIGHT PER TABLE 503: 75' -FOR TYPE II-B CONSTRUCTION (B, A3,S-1)		RIOR		0 HOUI	
791	MAXIMUM NUMBER OF STORIES ABOVE GRADE PLANE	FLOC	OR CONSTRUCTION	N AND		
6	-FOR OCCUPANCY 'B': 4, ACTUAL - 4 -FOR OCCUPANCY 'A-3': 3, ACTUAL - 3	ASSC	OCIATED SECONDE	RY MEMBERS:	0 HOU	R N/A
1096	-FOR OCCUPANCY 'S-1': 3, ACTUAL - 4 (ACCESSORY AREA)		FS AND ROOF/CEIL		0 HOU	R N/A
	ALLOWABLE FLOOR AREA -REFER TO BUILDING HEIGHT AND AREA INCREASE.	МЕМ	BERS SUPPORTING 20'-0" OR MORE AB	A ROOF		
212	ACTUAL BUILDING AREAFOR OCCUPANCY 'B': 121,374		- [,] Y AND FIRE WALLS	S:	3 HOUF	R N/A
47	-FOR OCCUPANCY 'A-3': 12,723 -FOR STORAGE-		SEPARATIONS:	<u></u>	2 HOUF	
36	(311.1.1 ACCESSORY STORAGE SPACES A ROOM OR SPACE USED FOR STORAGE PURPOSES THAT IS			OSURES:	2 HOUF	
	ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIE AS PART OF THAT OCCUPANCY)	D	ATOR SHAFTS & E		2 HOUF	R U415
295	FIRE ALARM - YES		RIOR WALL AND	CEILING FINISH	REQUIR	EMENTS (IBC
			LE 803.13):	000000000	AND	
150	BUILDING AREAS (IBC): (NFPA): LEVEL 100 - 50000 COE - LEVEL 100 - 1000 DEPOCN	GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS		OR EXIT	ROOMS AND ENCLOSED SPACES
17	LEVEL 100 = 53202 GSF LEVEL 100 = 1096 PERSON LEVEL 200 = 34726 GSF LEVEL 200 = 295 PERSONS		В	С		С
318	LEVEL 300 = 25484 GSF			C		С
	TOTAL = 134,568 GSF TOTAL = 2,074 PERSON	S A-3	В	В		С
485	NOTE: BUILDING OWNERS AND DESIGNERS MUST TAKE NECESSAR	Υ [CUPANCY SEPARA B TO A = 1 HRS	-		

NELSON B TO S-1 = NO SEPARATION REQUIREMENT

208 Pirkle Ferry Road, Suite C

Cumming, GA 30040

LIFE SAFETY PLAN LEGEND

CALCULATIONS)

ACCESSORY STORAGE AREAS.

ASSEMBLY (CONCENTRATED)

CLASSROOM/TRAINING

TRAVEL DISTANCE LIMIT -

COMMON PATH LIMIT -

DEAD END LIMIT -

BUSINESS AREAS

ASSEMBLY (UNCONCENTRATED)

ALLOWABLE DISTANCE PER LSC 12.2.6

GROUP A-3: 20 FT. SPRINKLERED

<50 PERSONS: 50 FT SPRINKLERED

GROUP A-3: 20 FT. SPRINKLERED

GROUP A3: MAX. 250 FT. SPRINKLERED

GROUP B: MAX. 300 FT. SPRINKLERED

GROUP B: MAX. 100 FT. SPRINKLERED

2018 NFPA 101, LIFE SAFETY CODE

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020,2022)

SAFETY FIRE COMMISSIONER 120-3-20A

2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE

2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKER

SYSTEMS WITH GEORGIA AMENDMENTS (2020,2022)

2010 ADA STANDARDS, PER RULES AND REGULATIONS OF THE

OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBO

= 7 NSF/PERSON

= 15 NSF/PERSON

= 20 NSF/PERSON

= 150 GSF/PERSON

AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT

MECHANICAL, ELECTRICAL ROOMS = 500 GSF/PERSON

(REFER TO OCCUPANCY SCHEDULE FOR ROOM OCCUPANCY

SEPARATION PER IBC CHAPTER 5

2018 INTERNATIONAL FIRE CODE

2018 INTERNATIONAL PLUMBING CODE

2018 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL FUEL GAS CODE

2020 NATIONAL ELECTRICAL CODE

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020)

WITH GEORGIA AMENDMENTS (2021)

■ ■ ■ ■ ■ ■ ■ ■ 2-HOUR RATED PARTITION ■ ■ ■ ■ ■ 1-HOUR RATED PARTITION

■■■■■■■■■■ SMOKE BARRIER (NON FIRE RATED) NON-RATED PARTITION

EXTINGUISHER LOCATION PER NFPA 10

FIRE EXTINGUISHER IN RECESSED CABINET

• FE BRACKET MOUNTED FIRE EXTINGUISHER

CAPACITY PER LSC 7.3.3.1

STAIRS = 0.3"/PERSON DOORS = 0.2"/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY 72"W DOOR = 68" CLR. = 340 CAPACITY

96"W DOOR = 92" CLR. = 460 CAPACITY

DOORS PER IBC 715.4

EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) **OCCUPANCY TYPE LEGEND:**

BUSINESS (B)

GROUP B: MAX. 50 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS)

NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 ASSEMBLY (A-3)

BUSINESS (B), OO ACTUAL EGRESS COUNT

OO EGRESS CAPACITY OF STAIR

STORAGE (S-1) 00 EGRESS CAPACITY OF EXIT

PLUMBING FIXTURE REQUIREMENTS								
OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK				
ASSEMBLY A-3	1 PER 125 (MALE) 1 PER 65 (FEMALE)	1 PER 200	1 PER 200	1				
BUSINESS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1				

	PLUMBING FIXTURE COUNT: (TOTAL OCCUPANCY 2,069)												
OCCUPANCY	OCCUPANCY WATER CLOSETS		LAVATORIES				DRINKING F	OUNTAINS	SERVICE SINK				
ASSEMBLY A-3 1145 PERSONS M:573, F:573	REQUIRED		REQUIRED				REQUIRED		REQUIRED				
	М	F			М	F			7		1		
	5	9			3	3			•				
BUSINESS	REQUIRED		REQUIRED		REQUIRED		REQUIRED						
929 PERSONS	М	F			М	F			7		1		
M:465, F:465	11	11			7	7			,		'		
TOTAL	REQU	JIRED	PRO\	/IDED	REQI	JIRED	PRO\	/IDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	
(BUSINESS +	М	F	М	F	М	F	М	F	14	16	2	4	
ASSEMBLY)	16	20	19	29	10	10	25	25	14	10	۷		
FAMILY	REQU	JIRED	PRO\	/IDED	REQUIRED PR		PRO\	/IDED					
/ASSISTED USE RESTROOMS	UNI	SEX	UNI	SEX	UNI	SEX	UNI	SEX					
					+							1	

PRINT RECORD

Q Z

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DESCRIPTION 02/08/2023 SD Package

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ate	Job No.
08/2024	23.0002839.000
ant Title	

LIFE SAFETY PLAN -BASEMENT

Sheet No.

LS-1.01

IMC, CHAPTER 6

IMC 602.2.1 MATERIALS WITHIN PLENUMS EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.8, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR

NFPA, LSC 101, CHAPTER 8 8.5.6.2 PENETRATIONS IN SMOKE BARRIERS

PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A SMOKE BARRIER, OR THROUGH THE CEILING MEMBRANE OF THE ROOF/CEILING OF A SMOKE BARRIER ASSEMBLY, SHALL BE PROTECTED BY A SYSTEM OR MATERIAL CAPABLE OF RESTRICTING THE TRANSFER OF SMOKE.

8.6.1 FLOOR SMOKE BARRIERS

CODE REVIEW REFRENCE NOTES

EVERY FLOOR THAT SEPARATES STORIES IN A BUILDING SHALL MEET THE FOLLOWING CRITERIA: 1. IT SHALL BE CONSTRUCTED AS A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5. 2. IT SHALL BE PERMITTED TO HAVE OPENINGS AS DESCRIBED BY 8.6.6, 8.6.7, 8.6.8, 8.6.9, OR CHAPTERS 11

UNLESS PROHIBITED BY CHAPTERS 11 THROUGH 43, UNENCLOSED FLOOR OPENINGS FORMING A COMMUNICATING SPACE BETWEEN FLOOR LEVELS SHALL BE PERMITTED, PROVIDED THAT THE FOLLOWING 1. THE COMMUNICATING SPACE DOES NOT CONNECT MORE THAN THREE CONTIGUOUS STORIES.

2. THE LOWEST OR NEXT-TO-LOWEST STORY WITHIN THE COMMUNICATING SPACE IS A STREET FLOOR. 3. THE ENTIRE FLOOR AREA OF THE COMMUNICATING SPACE IS OPEN AND UNOBSTRUCTED, SUCH THAT A FIRE IN ANY PART OF THE SPACE WILL BE READILY OBVIOUS TO THE OCCUPANTS OF THE SPACE PRIOR TO THE TIME 4. THE COMMUNICATING SPACE IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY FIRE BARRIERS

WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING, UNLESS ONE OF THE FOLLOWING IS MET: IN BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7, A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5 SHALL BE

PERMITTED TO SERVE AS THE SEPARATION REQUIRED BY 8.6.6 (4). THE REQUIREMENT OF 8.6.6(4) SHALL NOT APPLY TO FULLY SPRINKLERED RESIDENTIAL HOUSING UNITS OF DETENTION AND CORRECTIONAL OCCUPANCIES IN ACCORDANCE WITH 22.3.1(2) AND 23.3.1.1(2). 5. THE COMMUNICATING SPACE HAS ORDINARY HAZARD CONTENTS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7 OR HAS ONLY LOW HAZARD CONTENTS. (SEE 6.2.2.)

6. EGRESS CAPACITY IS SUFFICIENT TO ALLOW ALL THE OCCUPANTS OF ALL LEVELS WITHIN THE COMMUNICATING SPACE TO SIMULTANEOUSLY EGRESS THE COMMUNICATING SPACE BY CONSIDERING IT AS A SINGLE FLOOR AREA IN DETERMINING THE REQUIRED EGRESS CAPACITY. 7. * EACH OCCUPANT WITHIN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO TRAVERSE ANOTHER STORY WITHIN THE COMMUNICATING SPACE. 8. EACH OCCUPANT NOT IN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO ENTER THE COMMUNICATING SPACE.

PODCAST

BUILDING

LOBBY

PRE-FUNCTION

STORAGE

FURNITURE

STORAGE

SECURITY

OFFICE

SOUND LOCK

SECURITY VESTIBULE ROOM

MULTI-PURPOSE

CHAMBER

ROOM

STUDIO

liding Height and Area Increase Calculations				
	Table 506.2	.75 Area Increase	Allowable Area	
owable Area Assembly A3	28,500	7,125	35,625	
owable Area Business	69,000	17,250	86,250	

 $I_r = [F/P - 0.25]W/30$ 0.75 Area Increase Due to Frontage

I=[F/P-0.25]W/30 I-[1191/1191-0.25]30/30 I=[1-0.25]1 I=0.75

506.2.4 Mixed-Occupancy, Multistory Buildings $A_a = [A_t + (NS \times I_t)]$

A=Atab+(NSxArea factor increase) A=28,500+(9,500x.75)

A=35,625

A=86,250

506.3 Amount of Area Increase

A=Atab+(NSxArea factor increase) A=69,000 +(23000x.75) A=69,000 +(23000x.75)

PUBLIC

BUILDING

RECEPTION

SOUND LOCK

STORAGE

PUBLIC

PUBLIC

ELEVATOR

LOBBY

ELEV.

STAFF ELEV.

ELEV. LOBBY

CHAMBER

CONTROLS

TLT

EXECUTIVE CONFERENCE

VESTIBULE

506.2.4 Mixed-Occupancy, Multistory Buildings

Exception: For buildings designed as separated occupancies under Section 508.4 and equipped throughout with an automatic sprinkler system installed in accordance with Section 903.3.1.2, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed four.

			Ratio-Actual/Allowable
	Actual	Allowable	
First floor Assembly Actual	11860	35625	0.3
First Floor Business Actual	41125	86250	0.4
Total	52985		0.8
Second floor Assembly Actual	537	35625	0.0
Second Floor Business Actual	33198	86250	0.3
Total	33735		0.4
Third floor Assembly Actual	4756	35625	0.1
Third Floor Business Actual	22940	86250	0.2
Total	27696		0.4
Fourth floor Assembly Actual	0	35625	0.0
Fourth Floor Business Actual	23679	86250	0.2
Total	23679		0.2
Aggregate Sum of the Ratios			1.8

CORONER

STORAGE

CONFERENCE

ROOM

CORONER'S

OFFICE

PLOTTER

SUPPLY

PUBLIC

WELLNESS

TRANSACTIONS

WAITING

ROOM

TLT

STAFF

TLT

DIRECTOR

OPEN

FILE /

LAYOUT

WORKSTATIONS)

(FUTURE

TRANSACTIONS

RANSACTIONS

SUPPLY

____=

HUDDLE

DEPUTY

DIRECTOR

STORM

OFFICE

STORM

OFFICE

OFFICE

OFFICE

DIRECTOR

STORM

OFFICE

HUDDLE

CONFERENCE

ROOM

OFFICE

DEPUTY

DIRECTOR

STORM WORKSTATIONS

STORM

WORKSTATIONS

WORKSTATIONS

BUILDING AREA AND OCCUPANCY AREA PER FLOOR										
OCCUPANCY PER LSC TABLE 7.3.1.2										
OCCUPANCY TYPE (PER FLOOR)	SQUARE FOOTAGE	SQUARE FOOTAGE OCCUPANT LOAD TOTAL OCCUPANT LOAD (PER FLOOR)								
FIRST FLOOR										
BUSINESS	35761	150 SF/ OCC.	239							
BUSINESS (COLLAB.)	1773	30 SF/ OCC.	60							
ASSEMBLY	11860	15 SF/ OCC.	791							
STORAGE	2591 500 SF/ OCC. 6									
TOTAL		•	1096							
SECOND FLOOR										
BUSINESS	31802	150 SF/ OCC.	212							
BUSINESS (COLLAB.)	1396	30 SF/ OCC.	47							
ASSEMBLY	537	15 SF/ OCC.	36							
STORAGE										
TOTAL		2	295							
THIRD FLOOR										
BUSINESS	22445.5	150 SF/ OCC.	150							
BUSINESS (COLLAB.)	495	30 SF/ OCC.	17							
ASSEMBLY	4756	15 SF/ OCC.	318							
STORAGE										
TOTAL		2	485							
FOURTH FLOOR										
BUSINESS	22007	150 SF/ OCC.	150							
BUSINESS (COLLAB.)	1409	30 SF/ OCC.	47							
ASSEMBLY										
STORAGE	263	500 SF/ OCC.	1							
TOTAL			198							

BUILDIN	G AREA AND OCC	CUPANCY AREA	PER FLOOR	BUILDING DATA							
ANCY PER LSC	TABLE 7.3.1.2				ATING: U.L.NUMBEI						
ANCY TYPE LOOR)	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	TOTAL OCCUPANCY (PER FLOOR)	PRIMARY OCCUPANCY AS BUSINESS (NFPA CHPT. 6) GROUP B (IBC CHPT 3) W/ ASSEMBLY (NFPA CHPT. 6) GROUP A-3, PRIMARY STRUCTURAL FRAME: 0 F STORAGE S-1 (IBC CHPT. 3) AS ANCILLARY	IOUR N/A						
LOOR					HOUR N/A HOUR N/A						
ESS	35761	150 SF/ OCC.	239	HEIGHT AND AREA LIMITS (IBC): NONBEARING WALLS & PARTITIONS:							
ESS (COLLAB.)	1773	30 SF/ OCC.	60	ALLOWABLE HEIGHT PER TABLE 503: 75' EXTERIOR 0	HOUR N/A HOUR N/A						
BLY	11860	15 SF/ OCC.	791	MAXIMUM NUMBER OF STORIES ABOVE GRADE PLANE <u>FLOOR CONSTRUCTION AND</u>							
GE	2591	500 SF/ OCC.	6	-FOR OCCUPANCY 'A-3': ´3, ACTUAL - 3	HOUR N/A						
			1096	(EXCEPT WHERE STRUCTURAL	HOUR N/A						
<u>D FLOOR</u>				ALLOWABLE FLOOR AREA MEMBERS SUPPORTING A ROOF -REFER TO BUILDING HEIGHT AND AREA INCREASE. ARE 20'-0" OR MORE ABOVE FLOOR LEVEL)							
ESS	31802	150 SF/ OCC.	212		HOUR N/A						
ESS (COLLAB.)	1396	30 SF/ OCC.	47		HOUR U419						
BLY	537	15 SF/ OCC.	36		HOUR U415						
GE				ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS PART OF THAT OCCUPANCY) ELEVATOR SHAFTS & ENCLOSURES: 2 F	HOUR U415						
			295	FIRE ALARM - YES INTERIOR WALL AND CEILING FINISH RECTABLE 803.13):	QUIREMENTS (IBC						
FLOOR											
SS	22445.5	150 SF/ OCC.	150	BUILDING AREAS (IBC): (NFPA): LEVEL 100 = 53202 GSF BUILDING OCCUPANCY (NFPA): LEVEL 100 = 1096 PERSONS DINTERIOR EXIT CORRIDORS AND STAIRWAYS AND ENCLOSURE FOR EXIT CORRIDORS AND STAIRWAYS AND EXIT ACCESS STAIRWAYS AND EXIT CORRIDORS AND STAIRWAYS AND S	EXIII ENCLOSED II						
ESS (COLLAB.)	495	30 SF/ OCC.	17	LEVEL 200 = 34726 GSF	С						
BLY	4756	15 SF/ OCC.	318	<u>LEVEL 400 = 21156 GSF LEVEL 400 = 198 PERSONS</u>	C						
GE											
H FLOOR			485	NOTE: BUILDING OWNERS AND DESIGNERS MUST TAKE NECESSARY STEPS FOR TESTING, DESIGN, AND INSTALLATION OF ANY REQUIRED EERCS PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. OCCUPANCY SEPARATIONS (IBC TABLE S B TO A = 1 HRS B TO S-1 = NO SEPARATION REQUIREN							
SS	22007	150 SF/ OCC.	150	APPLICABLE CODES							

A): EL 100 =	53202 GSF	LEVEL 100 =	1096 PERSONS	lσ	PASSAGEWAYS	ACCESS STAIRWAYS AND RAMPS	SPACES		
L 200 =	34726 GSF	LEVEL 200 =	295 PERSONS	В	В	С	С		
L 300 = L 400 =	25484 GSF 21156 GSF		485 PERSON 198 PERSONS	S-2	С	С	С		
AL =	134,568 GSF		2,074 PERSONS	A-3	В	В	С		
TEPS FOR EQUIRED I	CCUPANCY SEPARATIONS (IBC TABLE 508.3.3): UILDING OWNERS AND DESIGNERS MUST TAKE NECESSARY EPS FOR TESTING, DESIGN, AND INSTALLATION OF ANY EQUIRED EERCS PRIOR TO THE ISSUANCE OF A ERTIFICATE OF OCCUPANCY.								
APPLICABLE CODES									

2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020, 2022)

2018 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2020,2022) 2018 INTERNATIONAL PLUMBING CODE

WITH GEORGIA AMENDMENTS (2020,2022) 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)

2020 NATIONAL ELECTRICAL CODE

2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020,2022) 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020,2022) 2018 NFPA 101, LIFE SAFETY CODE

WITH GEORGIA AMENDMENTS (2020,2022) 2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE WITH GEORGIA AMENDMENTS (2020,2022)

2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKER SYSTEMS WITH GEORGIA AMENDMENTS (2020,2022)

2010 ADA STANDARDS, PER RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER 120-3-20A

AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT

MECHANICAL, ELECTRICAL ROOMS = 500 GSF/PERSON

(REFER TO OCCUPANCY SCHEDULE FOR ROOM OCCUPANCY

OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBO

= 7 NSF/PERSON

= 15 NSF/PERSON

= 20 NSF/PERSON

= 150 GSF/PERSON

WITH GEORGIA AMENDMENTS (2021) LIFE SAFETY PLAN LEGEND

CALCULATIONS)

ACCESSORY STORAGE AREAS,

ASSEMBLY (CONCENTRATED)

CLASSROOM/TRAINING

TRAVEL DISTANCE LIMIT -

COMMON PATH LIMIT -

BUSINESS AREAS

ASSEMBLY (UNCONCENTRATED)

ALLOWABLE DISTANCE PER LSC 12.2.6

GROUP A-3: 20 FT. SPRINKLERED

<50 PERSONS: 50 FT SPRINKLERED

GROUP A3: MAX. 250 FT. SPRINKLERED

GROUP B: MAX. 300 FT. SPRINKLERED

GROUP B: MAX. 100 FT. SPRINKLERED

SEPARATION PER IBC CHAPTER 5

■ ■ ■ ■ ■ ■ ■ 2-HOUR RATED PARTITION 1-HOUR RATED PARTITION

(NON FIRE RATED) NON-RATED PARTITION **EXTINGUISHER LOCATION PER NFPA 10**

■■■■■■■■■■ SMOKE BARRIER

FIRE EXTINGUISHER IN RECESSED CABINET

• FE BRACKET MOUNTED FIRE EXTINGUISHER

CAPACITY PER LSC 7.3.3.1 STAIRS = 0.3"/PERSON

DOORS = 0.2"/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY 72"W DOOR = 68" CLR. = 340 CAPACITY

96"W DOOR = 92" CLR. = 460 CAPACITY

DOORS PER IBC 715.4

EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) **OCCUPANCY TYPE LEGEND:**

ASSEMBLY (A-3) BUSINESS (B)

DEAD END LIMIT -GROUP A-3: 20 FT. SPRINKLERED GROUP B: MAX. 50 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS)

NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 BUSINESS (B), COLLABORATION 00 ACTUAL EGRESS COUNT 00 EGRESS CAPACITY OF STAIR

STORAGE (S-1) 00 EGRESS CAPACITY OF EXIT

PLUMBING FIXTURE REQUIREMENTS									
OCCUPANCY	WATER CLC	SETS	LAVA	ATORIE	ES	DRINKING I	OUNTAINS	SERVICE S	INK
ASSEMBLY A-3	1 PER 125 (N 1 PER 65 (FE		1 PER 200			1 PER 200		1	
BUSINESS	1 PER 25 FC FIRST 50 AN FOR THE RE EXCEEDING	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80			1 PER 100		1		
	PLUMBING FIXTURE COUNT: (TOTAL OCCUPANCY 2,069)								
OCCUPANCY	WATER CLC	SETS	LAVA	ATORIE	ES	DRINKING FOUNTAINS		SERVICE S	INK
ASSEMBLY A-3	REQUIRED		REQUIRED			REQUIRED		REQUIRED	
1145 PERSONS	M F M F					7		4	

OCCUPANCY	WAT	ER CL	OSETS		LAVATORIES				DRINKING F	OUNTAINS	SERVICE SI	INK
ASSEMBLY A-3	REQU	JIRED			REQUIRED		REQUIRED		REQUIRED			
1145 PERSONS	М	F			М	F			7		1	
M:573, F:573	5	9			3	3			,		I	
BUSINESS	REQL	JIRED			REQUIRED		REQUIRED		REQUIRED			
929 PERSONS M:465, F:465	М	F			М	F			7		1	
	11	11			7	7			,		l	
TOTAL	REQU	JIRED	PROVIDED		REQU	JIRED	PROV	IDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
(BUSINESS +	М	F	М	F	М	F	М	F	14	16	2	4
ASSEMBLY)	16	20	19	29	10	10	25	25	17	10	۷	Т
FAMILY	REQU	JIRED	PRO\	/IDED	REQL	JIRED	PROV	IDED				
/ASSISTED USE RESTROOMS	UNI	SEX	UNI	SEX	UNISEX UNISEX		SEX					
		1	4	1	_	1	4	•				



208 Pirkle Ferry Road, Suite C Cumming, GA 30040

J M Q Z

PRINT RECORD

DESCRIPTION No. DATE 02/08/2023 SD Package

Checked By Drawn By Job No. 02/08/2024 23.0002839.000

Sheet Title **LIFE SAFETY PLAN -**PLAZA LEVEL

Sheet No.

LS-1.02 **NOT FOR CONSTRUCTIO**

01 PLAZA LEVEL - LIFE SAFETY

3/32" = 1'-0"

IMC, CHAPTER 6

IMC 602.2.1 MATERIALS WITHIN PLENUMS EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.8, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR

NFPA, LSC 101, CHAPTER 8 8.5.6.2 PENETRATIONS IN SMOKE BARRIERS

CODE REVIEW REFRENCE NOTES

PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL, FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A SMOKE BARRIER, OR THROUGH THE CEILING MEMBRANE OF THE ROOF/CEILING OF A SMOKE BARRIER ASSEMBLY, SHALL BE PROTECTED BY A SYSTEM OR MATERIAL CAPABLE OF RESTRICTING THE TRANSFER OF SMOKE.

8.6.1 FLOOR SMOKE BARRIERS

EVERY FLOOR THAT SEPARATES STORIES IN A BUILDING SHALL MEET THE FOLLOWING CRITERIA: 1. IT SHALL BE CONSTRUCTED AS A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5. 2. IT SHALL BE PERMITTED TO HAVE OPENINGS AS DESCRIBED BY 8.6.6, 8.6.7, 8.6.8, 8.6.9, OR CHAPTERS 11 THROUGH 43.

UNLESS PROHIBITED BY CHAPTERS 11 THROUGH 43, UNENCLOSED FLOOR OPENINGS FORMING A COMMUNICATING SPACE BETWEEN FLOOR LEVELS SHALL BE PERMITTED, PROVIDED THAT THE FOLLOWING 1. THE COMMUNICATING SPACE DOES NOT CONNECT MORE THAN THREE CONTIGUOUS STORIES.

2. THE LOWEST OR NEXT-TO-LOWEST STORY WITHIN THE COMMUNICATING SPACE IS A STREET FLOOR. 3. THE ENTIRE FLOOR AREA OF THE COMMUNICATING SPACE IS OPEN AND UNOBSTRUCTED, SUCH THAT A FIRE IN ANY PART OF THE SPACE WILL BE READILY OBVIOUS TO THE OCCUPANTS OF THE SPACE PRIOR TO THE TIME IT BECOMES AN OCCUPANT HAZARD. 4. THE COMMUNICATING SPACE IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY FIRE BARRIERS

WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING, UNLESS ONE OF THE FOLLOWING IS MET: IN BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7, A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5 SHALL BE

PERMITTED TO SERVE AS THE SEPARATION REQUIRED BY 8.6.6 (4). THE REQUIREMENT OF 8.6.6(4) SHALL NOT APPLY TO FULLY SPRINKLERED RESIDENTIAL HOUSING UNITS OF DETENTION AND CORRECTIONAL OCCUPANCIES IN ACCORDANCE WITH 22.3.1(2) AND 23.3.1.1(2). 5. THE COMMUNICATING SPACE HAS ORDINARY HAZARD CONTENTS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7 OR HAS ONLY LOW HAZARD CONTENTS. (SEE 6.2.2.)

6. EGRESS CAPACITY IS SUFFICIENT TO ALLOW ALL THE OCCUPANTS OF ALL LEVELS WITHIN THE COMMUNICATING SPACE TO SIMULTANEOUSLY EGRESS THE COMMUNICATING SPACE BY CONSIDERING IT AS A SINGLE FLOOR AREA IN DETERMINING THE REQUIRED EGRESS CAPACITY. 7. * EACH OCCUPANT WITHIN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO TRAVERSE ANOTHER STORY WITHIN THE COMMUNICATING SPACE. 8. EACH OCCUPANT NOT IN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO ENTER THE COMMUNICATING SPACE.

DIRECTOR

WORKSTATIONS

HUDDLE

DEPUTY

DIRECTOR

WORKSTATIONS

FILE /

STORAGE

Iding Height and Area Increase Calculations				
	Table 506.2 .75 A	rea Increase Allov	vable Area	
owable Area Assembly A3	28,500	7,125	35,625	
owable Area Business	69,000	17,250	86,250	

 $I_r = [F/P - 0.25]W/30$ Area Increase Due to Frontage 0.75 I=[F/P-0.25]W/30 I-[1191/1191-0.25]30/30

I=0.75 506.2.4 Mixed-Occupancy, Multistory Buildings

A=Atab+(NSxArea factor increase) A=28,500+(9,500x.75)

 $A_a = [A_t + (NS \times I_t)]$

506.3 Amount of Area Increase

I=[1-0.25]1

A=86,250

HUDDLE

(FUTURE

BOARD

DIRECTOR)

TRANSACTIONS |

WORKSTATIONS

A=35,625 A=Atab+(NSxArea factor increase) A=69,000 +(23000x.75) A=69,000 +(23000x.75)

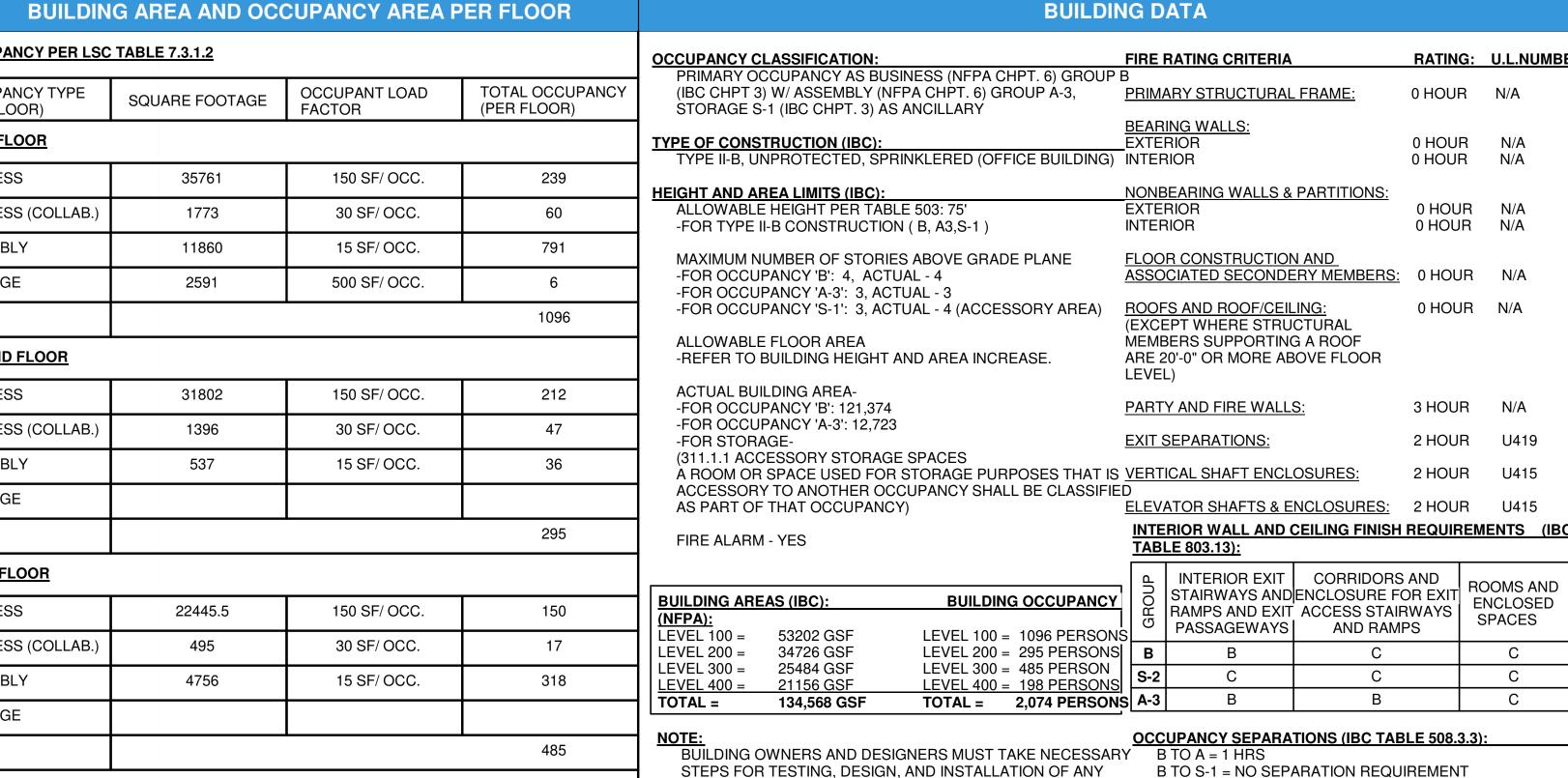
506.2.4 Mixed-Occupancy, Multistory Buildings

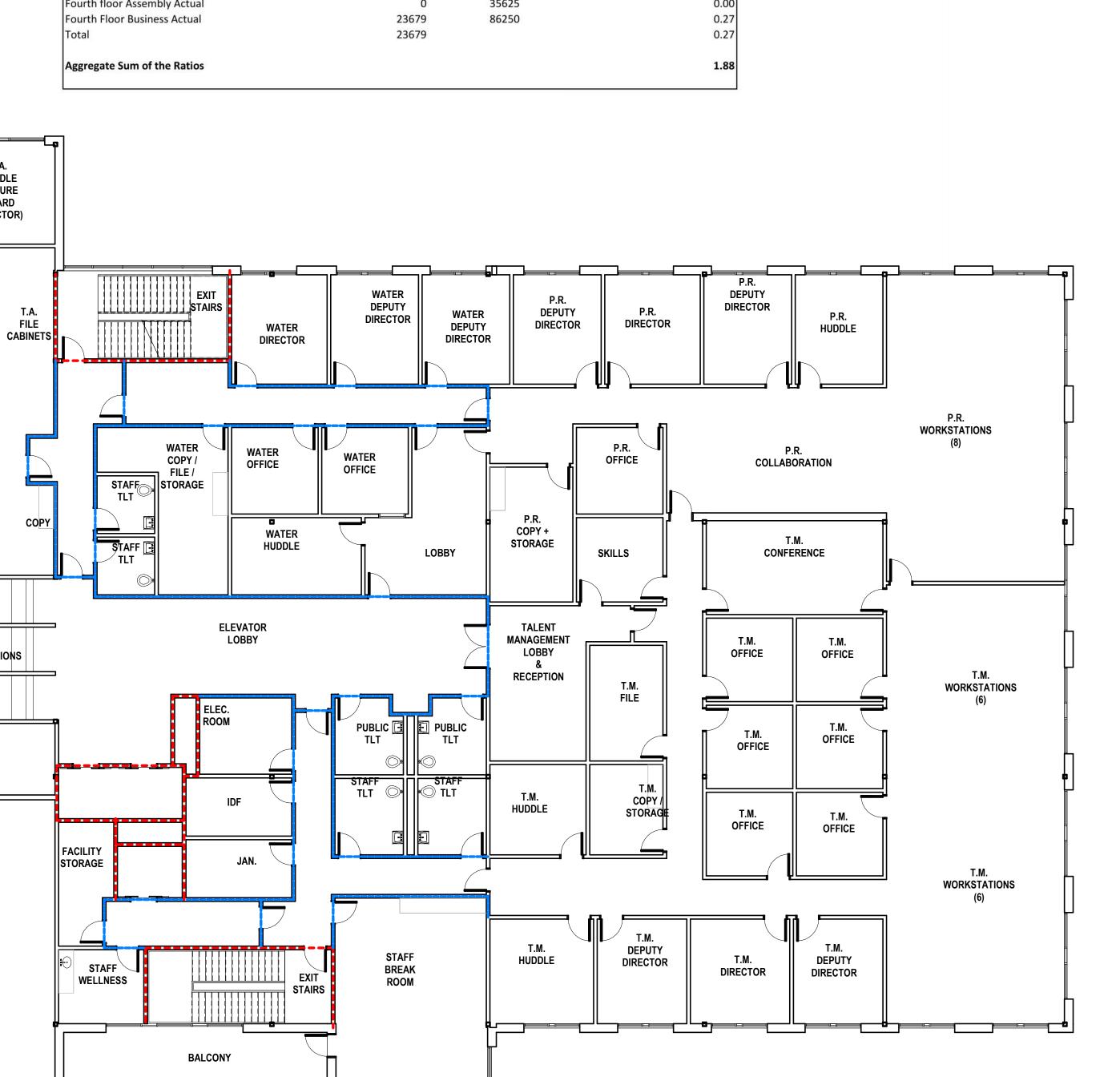
Exception: For buildings designed as separated occupancies under Section 508.4 and equipped throughout with an automatic sprinkler bystem installed in accordance with Section 903.3.1.2, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed four.

			Ratio-Actual/Allowable
	Actual	Allowable	
First floor Assembly Actual	11860	35625	0.3
First Floor Business Actual	41125	86250	0.4
Total	52985		0.8
Second floor Assembly Actual	537	35625	0.0
Second Floor Business Actual	33198	86250	0.3
Total	33735		0.4
Third floor Assembly Actual	4756	35625	0.1
Third Floor Business Actual	22940	86250	0.2
Total	27696		0.4
Fourth floor Assembly Actual	0	35625	0.0
Fourth Floor Business Actual	23679	86250	0.2
Total	23679		0.2
Aggregate Sum of the Ratios			1.8

BUILDIN	G AREA AND OC	CUPANCY AREA	PER FLOOR	
OCCUPANCY PER LSC	TABLE 7.3.1.2			OCCUPANCY CLASSIFICATION:
OCCUPANCY TYPE (PER FLOOR)	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	TOTAL OCCUPANCY (PER FLOOR)	PRIMARY OCCUPANCY AS BUSINESS (N (IBC CHPT 3) W/ ASSEMBLY (NFPA CHP' STORAGE S-1 (IBC CHPT. 3) AS ANCILLA
FIRST FLOOR				TYPE OF CONSTRUCTION (IBC): TYPE II-B, UNPROTECTED, SPRINKLERE
BUSINESS	35761	150 SF/ OCC.	239	HEIGHT AND AREA LIMITS (IBC):
BUSINESS (COLLAB.)	1773	30 SF/ OCC.	60	ALLOWABLE HEIGHT PER TABLE 503: 7: -FOR TYPE II-B CONSTRUCTION (B, A3,
ASSEMBLY	11860	15 SF/ OCC.	791	MAXIMUM NUMBER OF STORIES ABOVE
STORAGE	2591	500 SF/ OCC.	6	-FOR OCCUPANCY 'B': 4, ACTUAL - 4 -FOR OCCUPANCY 'A-3': 3, ACTUAL - 3
TOTAL			1096	-FOR OCCUPANCY 'S-1': 3, ACTUAL - 4
SECOND FLOOR				ALLOWABLE FLOOR AREA -REFER TO BUILDING HEIGHT AND ARE
BUSINESS	31802	150 SF/ OCC.	212	ACTUAL BUILDING AREA- -FOR OCCUPANCY 'B': 121,374
BUSINESS (COLLAB.)	1396	30 SF/ OCC.	47	-FOR OCCUPANCY 'A-3': 12,723 -FOR STORAGE-
ASSEMBLY	537	15 SF/ OCC.	36	(311.1.1 ACCESSORY STORAGE SPACE A ROOM OR SPACE USED FOR STORAGE
STORAGE				ACCESSORY TO ANOTHER OCCUPANC AS PART OF THAT OCCUPANCY)
TOTAL		•	295	FIRE ALARM - YES
THIRD FLOOR				
BUSINESS	22445.5	150 SF/ OCC.	150	BUILDING AREAS (IBC): B (NFPA):
BUSINESS (COLLAB.)	495	30 SF/ OCC.	17	LEVEL 100 = 53202 GSF LEVE LEVEL 200 = 34726 GSF LEVE
ASSEMBLY	4756	15 SF/ OCC.	318	LEVEL 300 = 25484 GSF LEVE LEVEL 400 = 21156 GSF LEVE
STORAGE				TOTAL = 134,568 GSF TOTA
TOTAL			485	NOTE: BUILDING OWNERS AND DESIGNERS N
FOURTH FLOOR				STEPS FOR TESTING, DESIGN, AND IN: REQUIRED EERCS PRIOR TO THE ISSU CERTIFICATE OF OCCUPANCY.
BUSINESS	22007	150 SF/ OCC.	150	
BUSINESS (COLLAB.)	1409	30 SF/ OCC.	47	
ASSEMBLY				2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (202
STORAGE	263	500 SF/ OCC.	1	2018 INTERNATIONAL FIRE CODE
TOTAL			198	WITH GEORGIA AMENDMENTS (202
				2018 INTERNATIONAL PLUMBING CODE

BIIII DING AREA AND OCCUPANCY AREA PER ELOOR





02 SECOND LEVEL - LIFE SAFETY
3/32" = 1'-0"

LIFE SAFETY PLAN LEGEND

ACCESSORY STORAGE AREAS.

ASSEMBLY (CONCENTRATED)

CLASSROOM/TRAINING

TRAVEL DISTANCE LIMIT -

COMMON PATH LIMIT -

DEAD END LIMIT -

BUSINESS AREAS

ASSEMBLY (UNCONCENTRATED)

ALLOWABLE DISTANCE PER LSC 12.2.6

GROUP A-3: 20 FT. SPRINKLERED

GROUP A-3: 20 FT. SPRINKLERED GROUP B: MAX. 50 FT. SPRINKLERED

<50 PERSONS: 50 FT SPRINKLERED

GROUP A3: MAX. 250 FT. SPRINKLERED

GROUP B: MAX. 300 FT. SPRINKLERED

GROUP B: MAX. 100 FT. SPRINKLERED

CALCULATIONS)

APPLICABLE CODES

2015 INTERNATIONAL ENERGY CONSERVATION CODE

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020.2022)

SAFETY FIRE COMMISSIONER 120-3-20A

2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE

2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKER

SYSTEMS WITH GEORGIA AMENDMENTS (2020,2022)

2010 ADA STANDARDS. PER RULES AND REGULATIONS OF THE

OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBO

= 7 NSF/PERSON

= 15 NSF/PERSON

= 20 NSF/PERSON

= 150 GSF/PERSON

AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT

MECHANICAL, ELECTRICAL ROOMS = 500 GSF/PERSON

(REFER TO OCCUPANCY SCHEDULE FOR ROOM OCCUPANCY

2018 NFPA 101, LIFE SAFETY CODE

WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020,2022)

SEPARATION PER IBC CHAPTER 5 ■ ■ ■ ■ ■ ■ ■ 2-HOUR RATED PARTITION - 1-HOUR RATED PARTITION ■■■■■■■■■■ SMOKE BARRIER

(NON FIRE RATED)

REQUIRED EERCS PRIOR TO THE ISSUANCE OF A

WITH GEORGIA AMENDMENTS (2020, 2022)

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020,2022)

WITH GEORGIA AMENDMENTS (2020,2022)

2018 INTERNATIONAL PLUMBING CODE

2018 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL FUEL GAS CODE

2020 NATIONAL ELECTRICAL CODE

WITH GEORGIA AMENDMENTS (2020)

WITH GEORGIA AMENDMENTS (2021)

NON-RATED PARTITION **EXTINGUISHER LOCATION PER NFPA 10** FIRE EXTINGUISHER IN RECESSED CABINET

• FE BRACKET MOUNTED FIRE EXTINGUISHER

CAPACITY PER LSC 7.3.3.1 STAIRS = 0.3"/PERSON DOORS = 0.2"/PERSON

32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY 72"W DOOR = 68" CLR. = 340 CAPACITY 96"W DOOR = 92" CLR. = 460 CAPACITY

DOORS PER IBC 715.4

EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) **OCCUPANCY TYPE LEGEND:**

ASSEMBLY (A-3) BUSINESS (B)

PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS) NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 BUSINESS (B), COLLABORATION 00 ACTUAL EGRESS COUNT 00 EGRESS CAPACITY OF STAIR

STORAGE (S-1) (00) EGRESS CAPACITY OF EXIT

		•							
PLUMBING FIXTURE REQUIREMENTS									
OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK					
ASSEMBLY A-3	1 PER 125 (MALE) 1 PER 65 (FEMALE)	1 PER 200	1 PER 200	1					
BUSINESS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1					

PLUMBING FIXTURE COUNT: (TOTAL OCCUPANCY 2,069)												
OCCUPANCY	WAT	ER CL	R CLOSETS		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINK			
ASSEMBLY A-3	REQI	JIRED			REQI	JIRED			REQUIRED		REQUIRED	
1145 PERSONS	М	F			М	F			7		1	
M:573, F:573	5	9			3	3			,			
BUSINESS	REQI	JIRED			REQUIRED		REQUIRED		REQUIRED			
929 PERSONS	М	M F		М	1 F		7	7		1		
M:465, F:465	11	11			7	7			,		'	
TOTAL	REQI	JIRED	PRO	/IDED	REQI	JIRED	PRO\	/IDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
(BUSINESS +	М	F	М	F	М	F	М	F	14	16	2	4
ASSEMBLY)	16	20	19	29	10	10	25	25	14	10		7
FAMILY	REQI	JIRED	PRO	/IDED	REQI	JIRED	PRO\	/IDED				
/ASSISTED USE RESTROOMS	UNI	SEX	UNI	SEX	UNI	SEX	UNI	SEX				
		1		4		1		1				



Cumming, GA 30040

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DATE	DESCRIPTION							
02/08/2023	SD Package							
wn By	Checked By							
	DATE 02/08/2023							

Job No. 02/08/2024 23.0002839.000 **Sheet Title**

LIFE SAFETY PLAN -SECOND LEVEL

Sheet No.

LS-1.03 **NOT FOR CONSTRUCTIO**

IMC, CHAPTER 6 IMC 602.2.1 MATERIALS WITHIN PLENUMS EXCEPT AS REQUIRED BY SECTIONS 602.2.1.1 THROUGH 602.2.1.8, MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR

NFPA, LSC 101, CHAPTER 8 8.5.6.2 PENETRATIONS IN SMOKE BARRIERS

PENETRATIONS FOR CABLES, CABLE TRAYS, CONDUITS, PIPES, TUBES, VENTS, WIRES, AND SIMILAR ITEMS TO ACCOMMODATE ELECTRICAL, MECHANICAL, PLUMBING, AND COMMUNICATIONS SYSTEMS THAT PASS THROUGH A WALL. FLOOR, OR FLOOR/CEILING ASSEMBLY CONSTRUCTED AS A SMOKE BARRIER, OR THROUGH THE CEILING MEMBRANE OF THE ROOF/CEILING OF A SMOKE BARRIER ASSEMBLY, SHALL BE PROTECTED BY A SYSTEM OR MATERIAL CAPABLE OF RESTRICTING THE TRANSFER OF SMOKE.

8.6.1 FLOOR SMOKE BARRIERS EVERY FLOOR THAT SEPARATES STORIES IN A BUILDING SHALL MEET THE FOLLOWING CRITERIA: 1. IT SHALL BE CONSTRUCTED AS A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5.

THROUGH 43.

CODE REVIEW REFRENCE NOTES

UNLESS PROHIBITED BY CHAPTERS 11 THROUGH 43, UNENCLOSED FLOOR OPENINGS FORMING A COMMUNICATING SPACE BETWEEN FLOOR LEVELS SHALL BE PERMITTED, PROVIDED THAT THE FOLLOWING

2. IT SHALL BE PERMITTED TO HAVE OPENINGS AS DESCRIBED BY 8.6.6, 8.6.7, 8.6.8, 8.6.9, OR CHAPTERS 11

1. THE COMMUNICATING SPACE DOES NOT CONNECT MORE THAN THREE CONTIGUOUS STORIES. 2. THE LOWEST OR NEXT-TO-LOWEST STORY WITHIN THE COMMUNICATING SPACE IS A STREET FLOOR. 3. THE ENTIRE FLOOR AREA OF THE COMMUNICATING SPACE IS OPEN AND UNOBSTRUCTED, SUCH THAT A FIRE IN ANY PART OF THE SPACE WILL BE READILY OBVIOUS TO THE OCCUPANTS OF THE SPACE PRIOR TO THE TIME IT BECOMES AN OCCUPANT HAZARD. 4. THE COMMUNICATING SPACE IS SEPARATED FROM THE REMAINDER OF THE BUILDING BY FIRE BARRIERS

WITH NOT LESS THAN A 1-HOUR FIRE RESISTANCE RATING, UNLESS ONE OF THE FOLLOWING IS MET: IN BUILDINGS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7, A SMOKE BARRIER IN ACCORDANCE WITH SECTION 8.5 SHALL BE PERMITTED TO SERVE AS THE SEPARATION REQUIRED BY 8.6.6 (4).

THE REQUIREMENT OF 8.6.6(4) SHALL NOT APPLY TO FULLY SPRINKLERED RESIDENTIAL HOUSING UNITS OF DETENTION AND CORRECTIONAL OCCUPANCIES IN ACCORDANCE WITH 22.3.1(2) AND 23.3.1.1(2). 5. THE COMMUNICATING SPACE HAS ORDINARY HAZARD CONTENTS PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 9.7 OR HAS ONLY LOW HAZARD CONTENTS. (SEE 6.2.2.)

6. EGRESS CAPACITY IS SUFFICIENT TO ALLOW ALL THE OCCUPANTS OF ALL LEVELS WITHIN THE COMMUNICATING SPACE TO SIMULTANEOUSLY EGRESS THE COMMUNICATING SPACE BY CONSIDERING IT AS A SINGLE FLOOR AREA IN DETERMINING THE REQUIRED EGRESS CAPACITY. 7. * EACH OCCUPANT WITHIN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO TRAVERSE ANOTHER STORY WITHIN THE COMMUNICATING SPACE. 8. EACH OCCUPANT NOT IN THE COMMUNICATING SPACE HAS ACCESS TO NOT LESS THAN ONE EXIT WITHOUT HAVING TO ENTER THE COMMUNICATING SPACE.

HUDDLE

(FUTURE

FILE

MANAGER

HUDDLE

ROOM

(FUTURE

EXEC.

OFFICE)

HUDDLE

ROOM

(FUTURE

COMMISIONER)

HUDDLE

ROOM

(FUTURE

CONSTITUENT

SERVICE

LIASON

OPERATING

OFFICER

COMMISIONER)

OFFICE)

DIRECTOR

DEPUTY

DIRECTOR

HUDDLE

(FUTURE

DEPUTY DIRECTOR)

FINANCEFINANCE

COMMISSIONERS

(FUTURE

STAFF

OFFICE)

CLERK'S

SECURE STORAGE

FILE /

STORAGE

CHIEF STRATEGY

OFFICER

ELEV.

STAFF ELEV.

BALCONY

ECEPTIONLOBBY

ROOM

WORKSTATIONS

WORKSTATIONS

OFFICE

FILE /

STORAGE

(FUTURE

OFFICE)

CONSTITUENT

SERVICE

LIASON

CONSTITUENT

SERVICE

EXECUTIVE ASSISTANT

LIASON

OFFICE

HUDDLE

ROOM

EXECUTIVE

CONFERENCE

ROOM

(SEATS

LEGISLATIVE/

COUNTY

CLERK

COMMISIONER

COMMISIONER

CHAIRMAN'S

CHAIRMAN

CONFERENCE

CLOSET

BALCONY

liding Height and Area Increase Calculations				
	Table 506.2 .75 A	rea Increase Allov	vable Area	
owable Area Assembly A3	28,500	7,125	35,625	
owable Area Business	69,000	17,250	86,250	

 $I_r = [F/P - 0.25]W/30$ Area Increase Due to Frontage 0.75 I=[F/P-0.25]W/30 I-[1191/1191-0.25]30/30 I=[1-0.25]1

506.2.4 Mixed-Occupancy, Multistory Buildings $A_a = [A_t + (NS \times I_t)]$

A=Atab+(NSxArea factor increase) A=28,500+(9,500x.75)

I=0.75

506.3 Amount of Area Increase

A=35,625 A=Atab+(NSxArea factor increase) A=69,000 +(23000x.75) A=69,000 +(23000x.75) A=86,250

506.2.4 Mixed-Occupancy, Multistory Buildings

Exception: For buildings designed as separated occupancies under Section 508.4 and equipped throughout with an automatic sprinkler bystem installed in accordance with Section 903.3.1.2, the total building area shall be such that the aggregate sum of the ratios of the actual area of each story divided by the allowable area of such stories determined in accordance with Equation 5-3 based on the applicable provisions of Section 508.1, shall not exceed four.

			Ratio-Actual/Allowable
	Actual	Allowable	
First floor Assembly Actual	11860	35625	0.
First Floor Business Actual	41125	86250	0.
Total	52985		0.
Second floor Assembly Actual	537	35625	0.
Second Floor Business Actual	33198	86250	0.
Total	33735		0.
Third floor Assembly Actual	4756	35625	0.
Third Floor Business Actual	22940	86250	0.
Total	27696		0.
Fourth floor Assembly Actual	0	35625	0.
Fourth Floor Business Actual	23679	86250	0.
Total	23679		0.
Aggregate Sum of the Ratios			1.

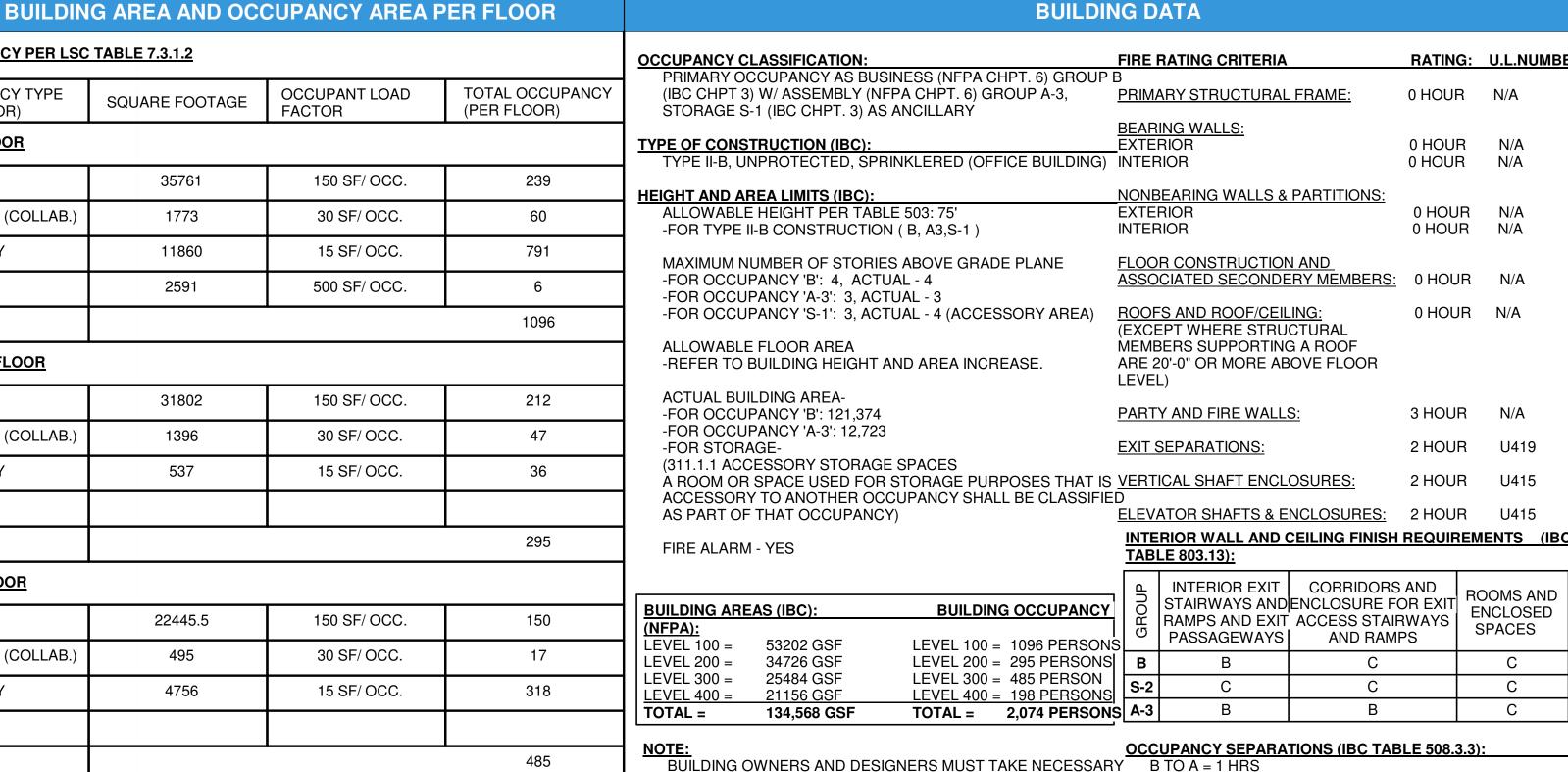
SPACE

STAFF BREAK ROOM

STAFF

ROOM

OCCUPANCY PER LSC	TABLE 7.3.1.2		
OCCUPANCY TYPE (PER FLOOR)	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	TOTAL OCCUPAN (PER FLOOR)
FIRST FLOOR			
BUSINESS	35761	150 SF/ OCC.	239
BUSINESS (COLLAB.)	1773	30 SF/ OCC.	60
ASSEMBLY	11860	15 SF/ OCC.	791
STORAGE	2591	500 SF/ OCC.	6
TOTAL			1096
SECOND FLOOR			
BUSINESS	31802	150 SF/ OCC.	212
BUSINESS (COLLAB.)	1396	30 SF/ OCC.	47
ASSEMBLY	537	15 SF/ OCC.	36
STORAGE			1
TOTAL		-	295
THIRD FLOOR			
BUSINESS	22445.5	150 SF/ OCC.	150
BUSINESS (COLLAB.)	495	30 SF/ OCC.	17
ASSEMBLY	4756	15 SF/ OCC.	318
STORAGE			
TOTAL		-	485
FOURTH FLOOR			
BUSINESS	22007	150 SF/ OCC.	150
BUSINESS (COLLAB.)	1409	30 SF/ OCC.	47
ASSEMBLY		1	1
STORAGE	263	500 SF/ OCC.	1



STEPS FOR TESTING, DESIGN, AND INSTALLATION OF ANY REQUIRED EERCS PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. 2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020, 2022)

2018 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2020,2022) 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2020,2022)

2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)

2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020,2022) 2020 NATIONAL ELECTRICAL CODE WITH GEORGIA AMENDMENTS (2021)

APPLICABLE CODES 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020,2022)

B TO S-1 = NO SEPARATION REQUIREMENT

2018 NFPA 101, LIFE SAFETY CODE WITH GEORGIA AMENDMENTS (2020,2022)

2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE WITH GEORGIA AMENDMENTS (2020,2022) 2019 NFPA 13. STANDARD FOR THE INSTALLATION OF SPRINKER

SYSTEMS WITH GEORGIA AMENDMENTS (2020,2022)

2010 ADA STANDARDS, PER RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER 120-3-20A

AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT

MECHANICAL, ELECTRICAL ROOMS = 500 GSF/PERSON

(REFER TO OCCUPANCY SCHEDULE FOR ROOM OCCUPANCY

OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBO

= 7 NSF/PERSON

= 15 NSF/PERSON

= 20 NSF/PERSON

= 150 GSF/PERSON

LIFE SAFETY PLAN LEGEND

CALCULATIONS)

ACCESSORY STORAGE AREAS.

ASSEMBLY (CONCENTRATED)

CLASSROOM/TRAINING

TRAVEL DISTANCE LIMIT -

COMMON PATH LIMIT -

BUSINESS AREAS

ASSEMBLY (UNCONCENTRATED)

ALLOWABLE DISTANCE PER LSC 12.2.6

GROUP A-3: 20 FT. SPRINKLERED

<50 PERSONS: 50 FT SPRINKLERED

GROUP A3: MAX. 250 FT. SPRINKLERED

GROUP B: MAX. 300 FT. SPRINKLERED

SEPARATION PER IBC CHAPTER 5

■ ■ ■ ■ ■ ■ ■ 2-HOUR RATED PARTITION 1-HOUR RATED PARTITION

■■■■■■■■■■ SMOKE BARRIER (NON FIRE RATED) NON-RATED PARTITION

EXTINGUISHER LOCATION PER NFPA 10

FIRE EXTINGUISHER IN RECESSED CABINET

• FE BRACKET MOUNTED FIRE EXTINGUISHER

CAPACITY PER LSC 7.3.3.1

STAIRS = 0.3"/PERSON DOORS = 0.2"/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY

72"W DOOR = 68" CLR. = 340 CAPACITY

96"W DOOR = 92" CLR. = 460 CAPACITY

DOORS PER IBC 715.4

EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION) **OCCUPANCY TYPE LEGEND:**

BUSINESS (B)

ROOMS STORAG

GROUP B: MAX. 100 FT. SPRINKLERED **DEAD END LIMIT -**GROUP A-3: 20 FT. SPRINKLERED GROUP B: MAX. 50 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING

TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS) NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 ASSEMBLY (A-3)

BUSINESS (B),
COLLABORATION 00 ACTUAL EGRESS COUNT 00 EGRESS CAPACITY OF STAIR

20.01.00	, 🔾
S	\wedge
GE (S-1)	600 EGRESS CAPACITY OF EXIT

PLUMBING FIXTURE REQUIREMENTS						
OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK		
ASSEMBLY A-3	1 PER 125 (MALE) 1 PER 65 (FEMALE)	1 PER 200	1 PER 200	1		
BUSINESS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1		

	PLUMBING FIXTURE COUNT: (TOTAL OCCUPANCY 2,069)											
OCCUPANCY	WAT	ER CL	OSETS		LAVATORIE		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINK	
ASSEMBLY A-3	REQL	JIRED			REQI	JIRED			REQUIRED		REQUIRED	
1145 PERSONS	М	F			М	F			7		1	
M:573, F:573	5	9			3	3			,		'	
BUSINESS	REQL	JIRED			REQI	JIRED			REQUIRED		REQUIRED	
929 PERSONS	М	F			М	F			7		1	
M:465, F:465	11	11			7	7			,		'	
TOTAL	REQL	JIRED	PRO\	/IDED	REQI	JIRED	PRO	VIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
(BUSINESS +	М	F	М	F	М	F	М	F	14	16	2	4
ASSEMBLY)	16	20	19	29	10	10	25	25	14	10	۷	7
FAMILY	REQL	JIRED	PRO\	/IDED	REQI	JIRED	PRO	VIDED				
/ASSISTED USE RESTROOMS	UNI	SEX	UNI	SEX	UNI	UNISEX UNISEX		SEX				
		1	4	4		1		4				

208 Pirkle Ferry Road, Suite C

Cumming, GA 30040

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PRINT RECORD

No.	DATE	DESCRIPTION
1	02/08/2023	SD Package
Dra	wn By	Checked By

Job No. 23.0002839.000 02/08/2024 Sheet Title LIFE SAFETY PLAN -

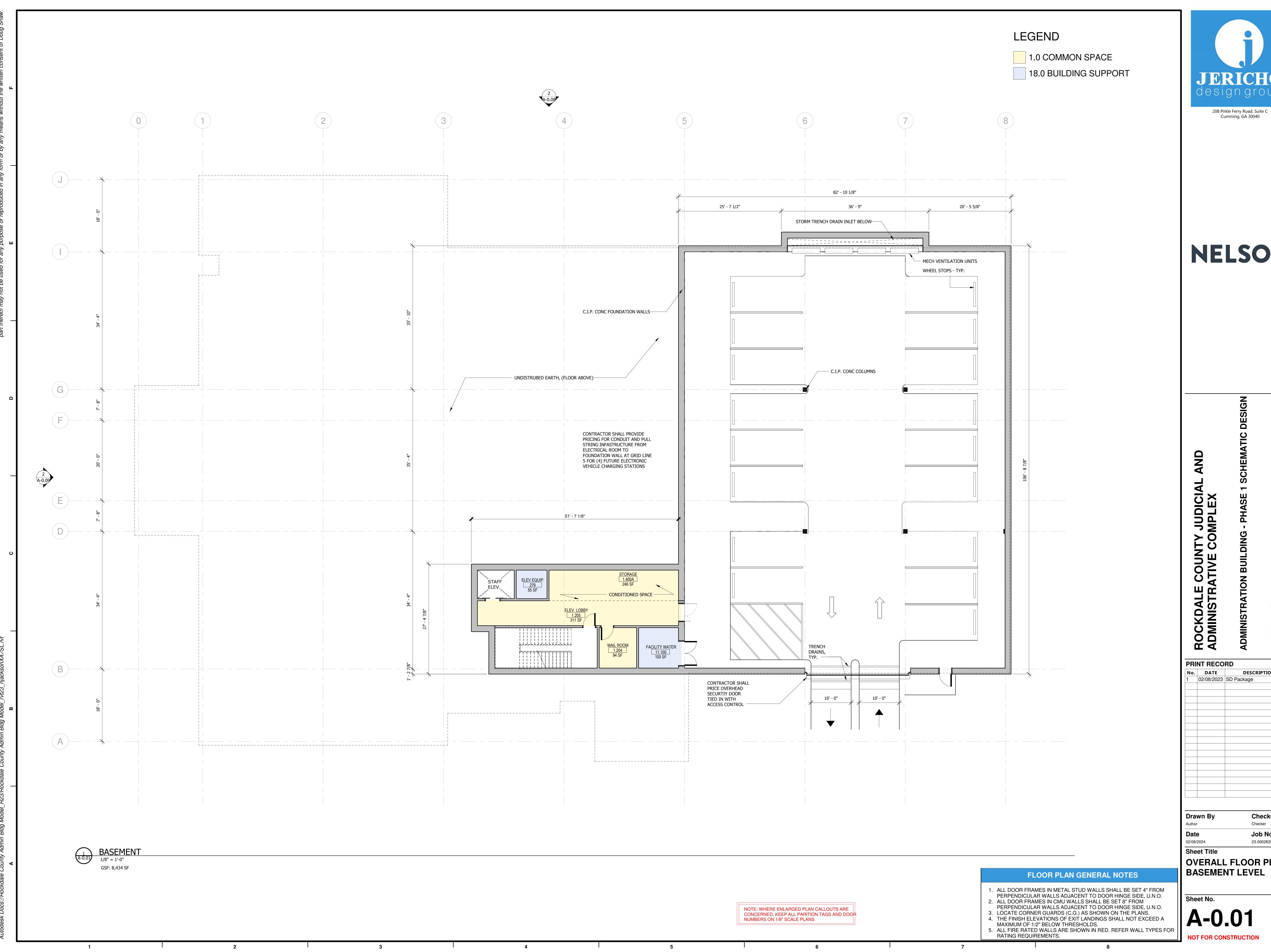
THIRD LEVEL

Sheet No.

NOT FOR CONSTRUCTION

03 THIRD LEVEL - LIFE SAFETY

3/32" = 1'-0"

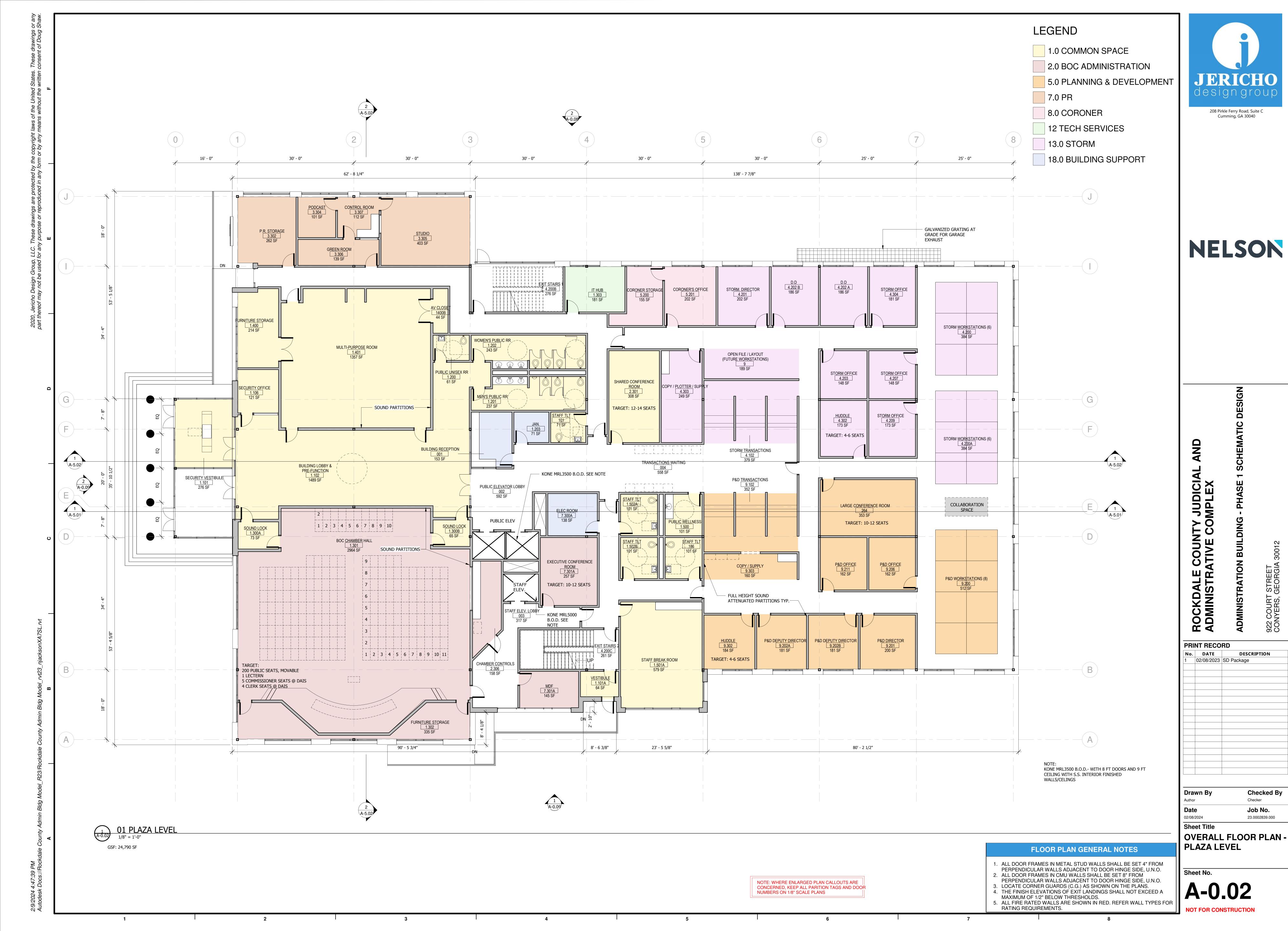


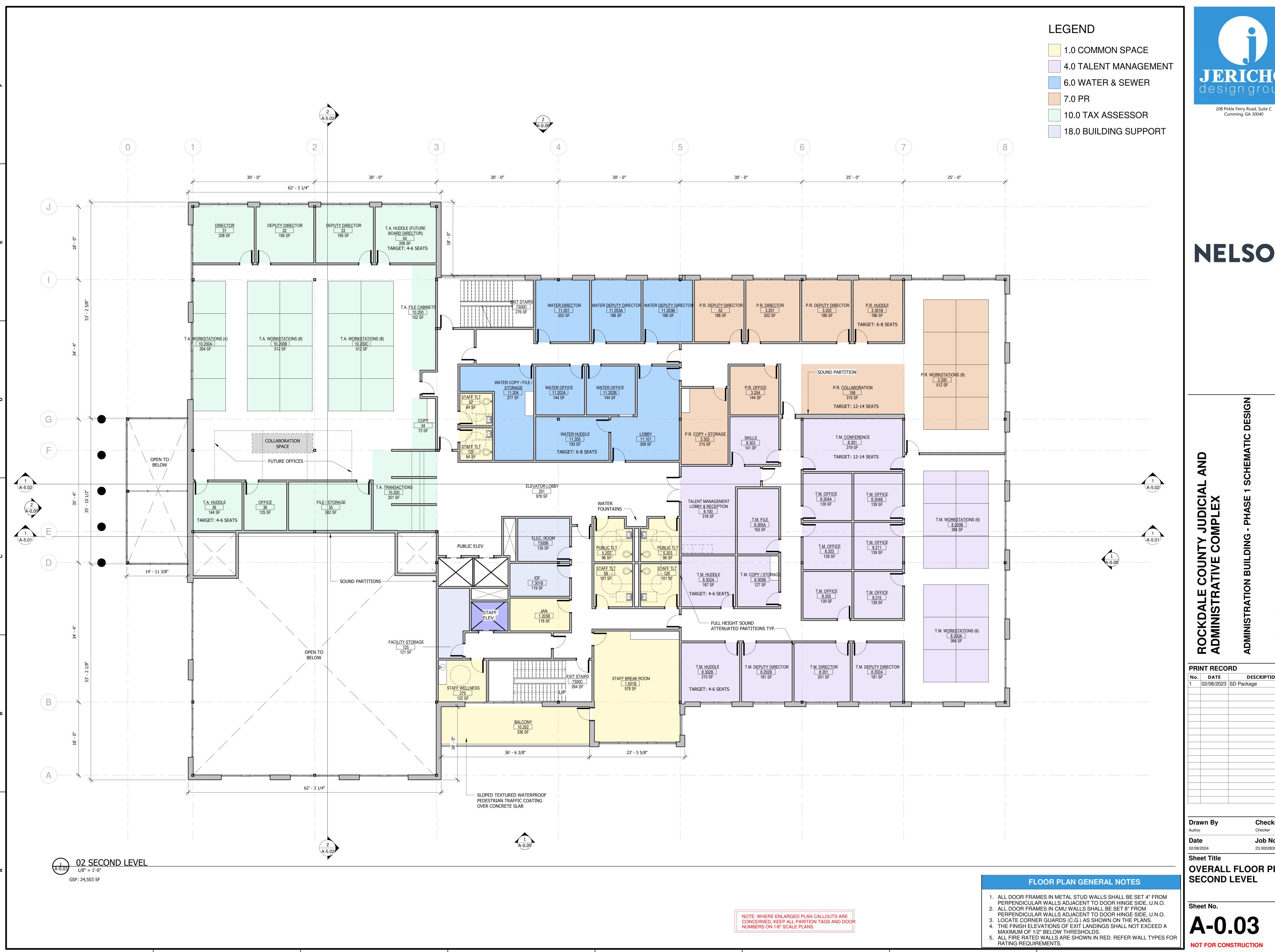


No.	DATE	DESCRIPTION
1	02/08/2023	SD Package

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OVERALL FLOOR PLAN -BASEMENT LEVEL





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OVERALL FLOOR PLAN -SECOND LEVEL



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OVERALL FLOOR PLAN -THIRD LEVEL

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EXTERIOR RENDERINGS

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AERIAL VIEW

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PEDESTRIAN APPROACH

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EXTERIOR RENDERINGS

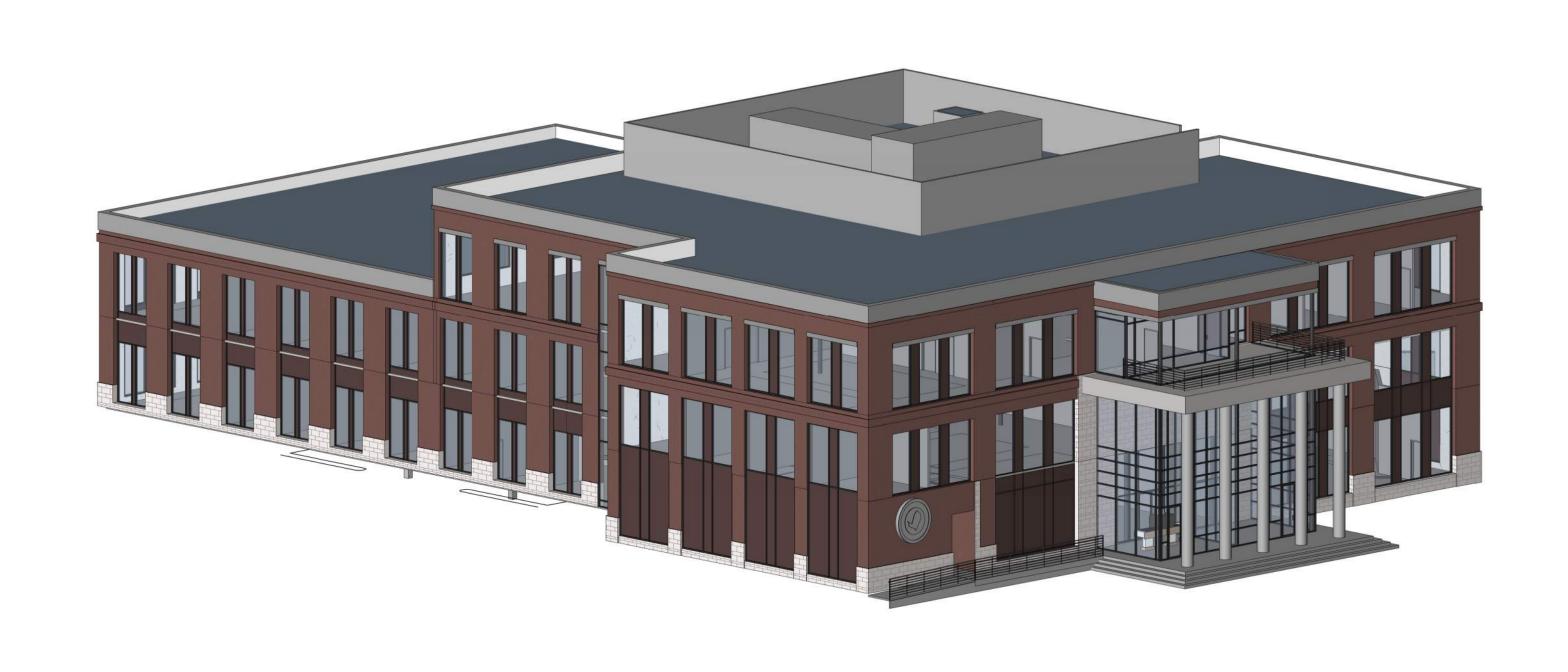
Sheet No.

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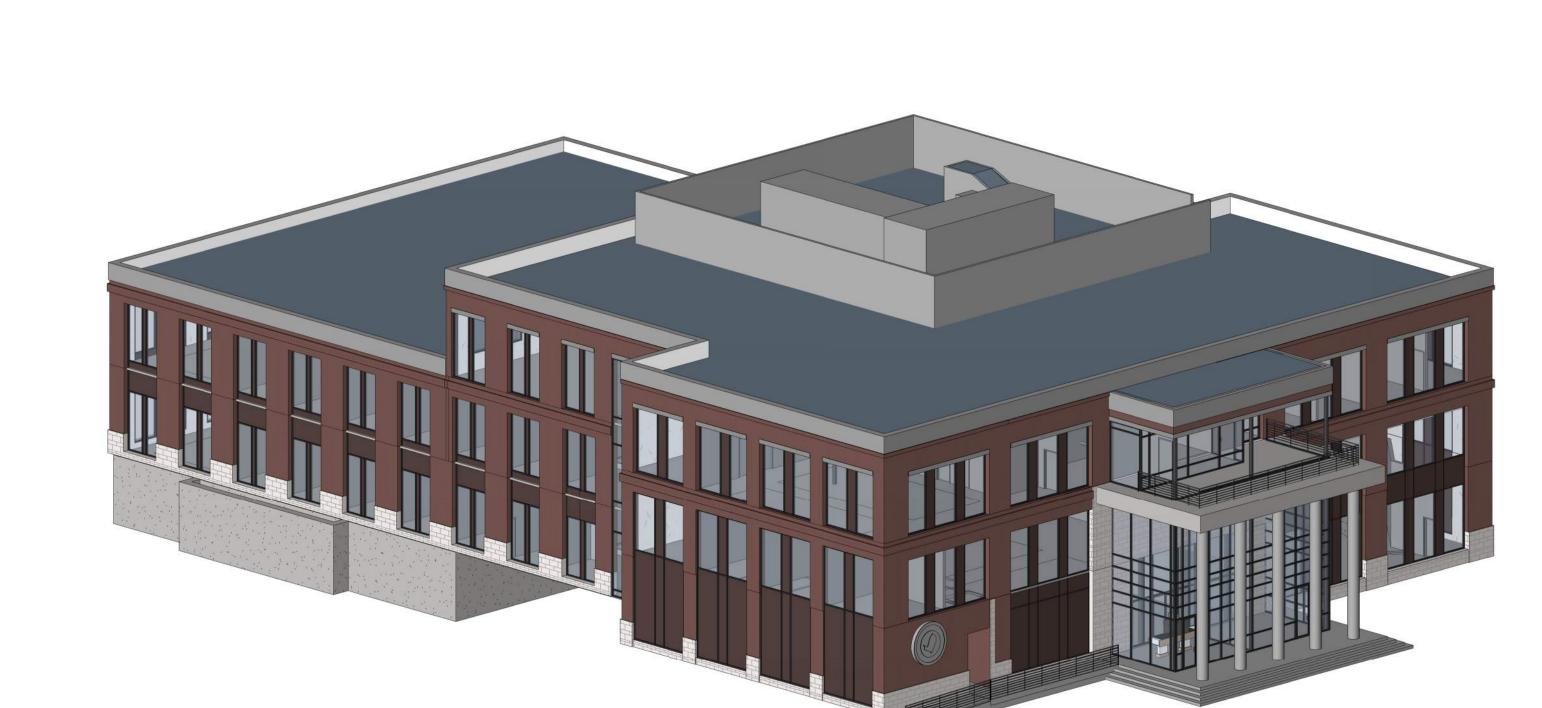
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FRONT APPROACH

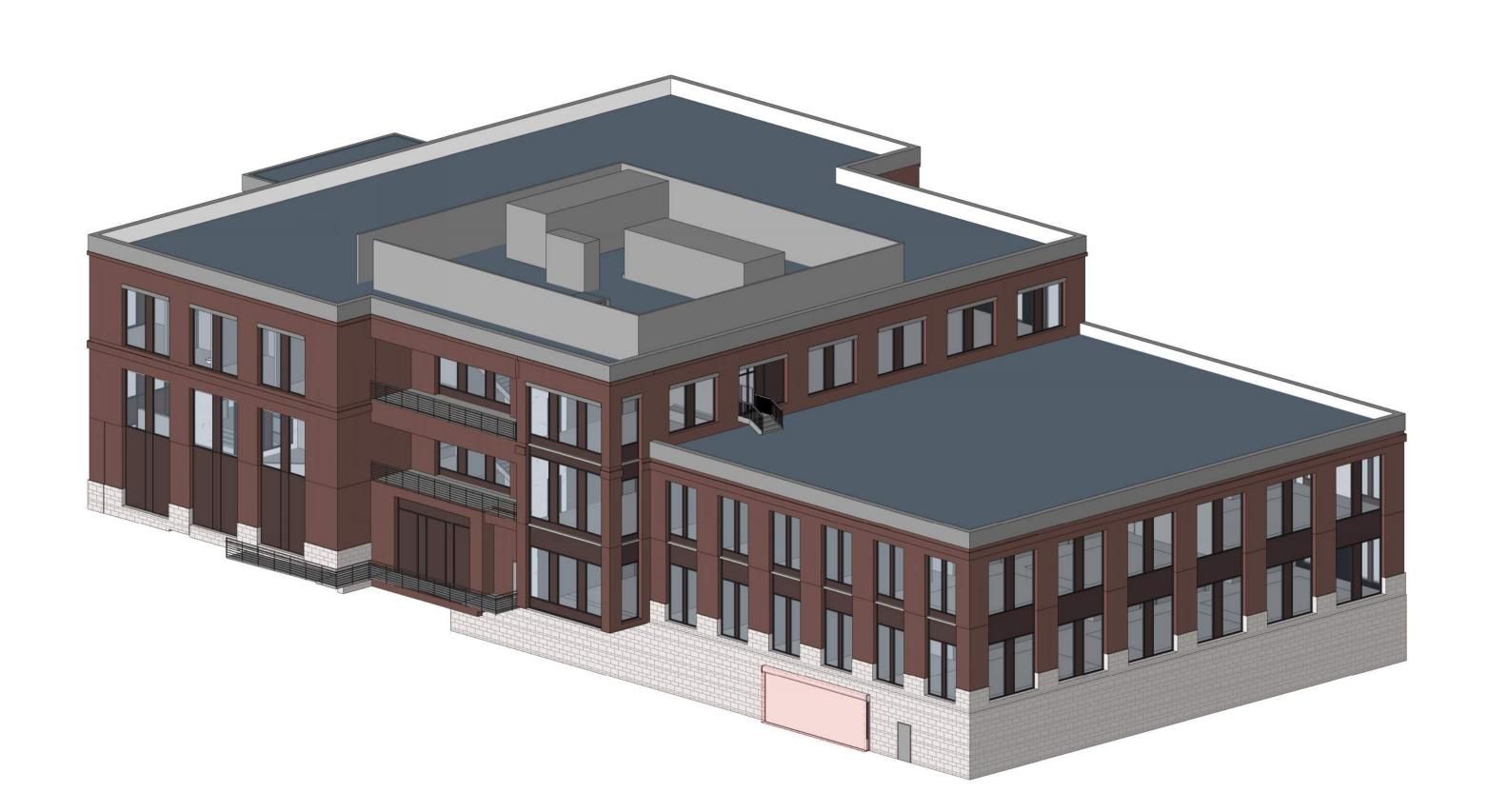


NE AXONOMETRIC VIEW



SW AXONOMETRIC VIEW

NW AXONOMETRIC VIEW



SE AXONOMETRIC VIEW

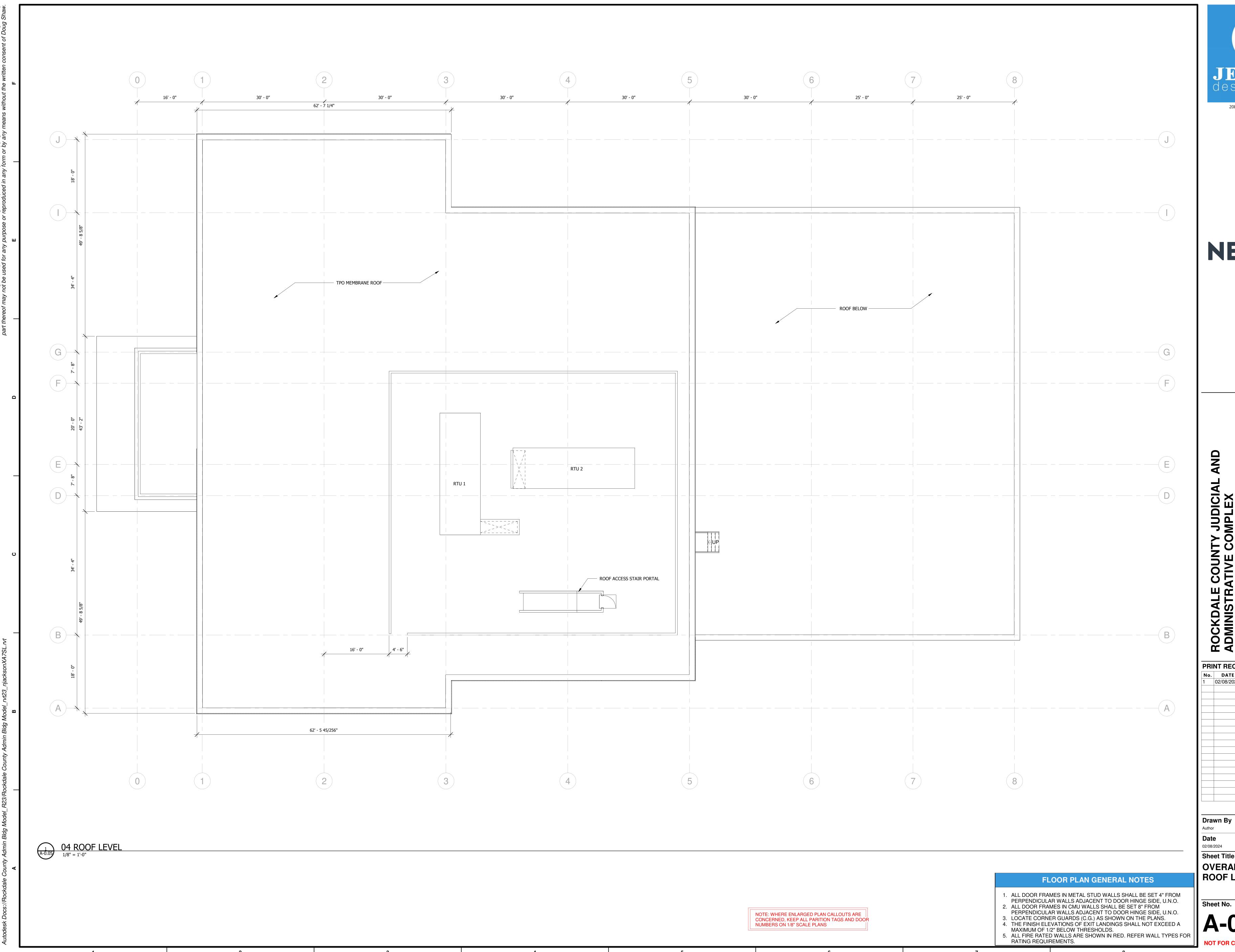
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AXONOMETRIC VIEWS



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Sheet Title

OVERALL FLOOR PLAN -ROOF LEVEL

CAST STONE -2 EXTERIOR ELEVATION - NORTH

1/8" = 1'-0" TOP OF SCREEN WALL STEEL CABLE GUARD RAIL SYSTEM, TYP.-- (LOUVERED SCREEN WALL —CAST STONE -2 CAST STONE -1 STOREFRONT-1 ALUMN. PANELS SECOND LEVEL 15' - 4" GLASS SPANDREL PANELS GRFC COLUMNS SPANDREL PANELS ———— CURTAINWALL BEYOND — EXTERIOR ELEVATION - WEST

1/8" = 1'-0"

TOP OF SCREEN
WALL



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EXTERIOR ELEVATIONS

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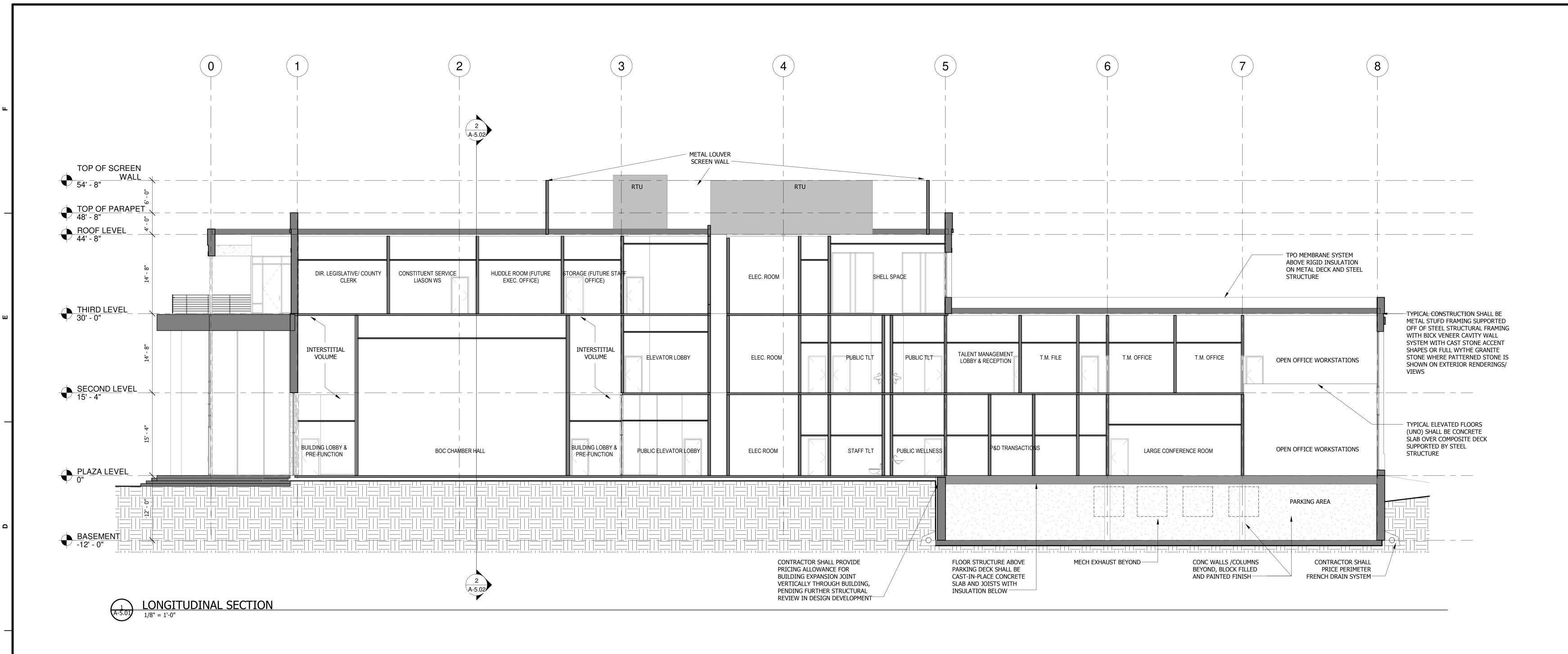
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EXTERIOR ELEVATIONS

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BUILDING SECTIONS

Sheet No.

A-5.0