

### JAA ARCHITECTURE

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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE SPACE HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION 2020 AND THE 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE BASED ON NFPA, 1 FIRE CODE 2018 EDITION & NFPA 101 LIFE SAFETY CODE 2018 EDITION THIS ITEM HAS BEEN DIGITALLY SEALED BY JOHN ALLMAND,
ARCHITECT, ON \_\_\_\_\_USING A DIGITAL SIGNATURE. PRINTED
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COPIES. AHJ APPROVED CONSTRUCTION DOCUMENTS ON SITE
SHALL BEAR THE "APPROVED" SEAL FROM THE AHJ.

### ABOVE FINISHED FLOOR VANITY BASE ACCESS PANEL INSIDE DIAMETER VAPOR BARRIER ACOUSTIC CEILING TILE INSUL INT INSULATION ACOUSTICAL INTERIOR VENEER PLASTER ADDITIONAL VENT THRU ROOF **ADHESIVE** ADJACENT ADJUSTABLE JOIST VERTICAL AIR CONDITIONIN KITCHEN ALTERNATE KNEE SPACE VINYL COMPOSITION TILE **ALUMINUM** KNOCKDOWN VINYL TILE AMPHERE LAB LABORATORY WALK-IN CLOSET ANCHOR BOLT WASHING MACHINE ANODIZED LAMINATED APRVD ARCH APPROVED LAMINATED VENEER LUMBER WATER HEATER ARCHITECT (URAL LAUNDRY TUB WATERPROOF LAVITORY LEADER WELDED WIRE FABRIC AVERAGE LEFT HAND WELDED WIRE MESH BEAM LIGHT GAUGE MTL FRAMING **BEARING PLATE** LOCATION WITHOUT **BENCH MARK** LOUVER LOW POINT BI-FOLD (DOOR MANUFACTURER MARKER BOARD BLOCKING SYMBOLS MASONRY OPENING BOTTOM MATERIAL BRICK MAXIMUM -COLUMN BUILDING MEDIUM BUILT UP ROOF MEDIUM DENSITY FIBER BOARD DESIGNATION MEDIUM DENSITY OVERLAY MEMBRANE CAPACITY METAL THRESHOLD CASED OPENNING MEZZANINE MILLIMETER CAST IRON MINIMUM CAST STONE MIRROR CATCH BASIN MISCELLANEOUS NAME MODULAR CEMENT MOUNTED -ROOM CENTERLINE MULLION CERAMIC MOSAIC TILE NUMBER 000 NATIONAL GEODETIC VERTICAL DATUM CHAMFER -ROOM AREA CHANGE NOM NOMINAL NORTH CHILLED WATER NOT IN CONTRAC NOT TO SCALE COLD WATER NUMBER OBSCURE -DOOR CONC CMU COND CONCRETE NUMBER CONCRETE MASONRY UNI CONDUIT OCCUPANT CONNECTION OPEN WEB STEEL JOIST CONSTRUCTION CONTR CONTINUOUS OPERABLE CONTR CONTRACTOR -WINDOW **OPPOSITE** CONTROL JOIN OPTIONAL TYPE CORNER GUARD ORIENTED STRAND BOARD CORRIDOR COUNTER OUTSIDE DIAMETER COURSE(S) -PARTITION TYPE CUBIC FEET OVERHEAD GARAGE DOOR - KEYNOTE PARKING DEGREE PARTICLE BOARD DEMOLISH (DEMOLITION) DEPARTMENT PAVEMENT PEDESTAL SINK DIAMETER PLASTIC LAMINAT **ACCESSORIE** PLUMBING DIRECTORY PLYWOOD POLYVINYL CHLORIDE PIP DOOR PORTABLE - REVISION DOOR OPENING DOUBLE ACTING CLOUD POUNDS PER SQUARE FT DOVETAIL ANCHOR DOVETAIL SLOT PRECAST -REVISION PREFABRICATED NUMBER PREFABRICATED PRESSURE TREATER DRAWER PROPERTY LINE DRINKING FOUNTAIN - NORTH DRYER (MACHINE) ARROW RECEPTOR ELECTRIC RECTANGLE ELECTRIC PANEL REFERENCE ELECTRIC WATER COOLER REFLECTED CEILING PLAN ELECTRIC WATER HEATER REFRIGERATOR FIFVATOR REINFORCEMENT INDICATES DIRECTION REQUIRED **EMERGENC** REQD OF CUTTING PLANE **ENGINEER** RETURN AIR **ENTRANCE** REVISED EQUIPMENT RISER (STAIR) ROD & SHELF EXISTING TO REMAIN **ROOF DRAIN EXISTING TO REMAIN** ROOF DRAIN LEADER ROOF HATCH **EXPANSION JOIN** ROUGH OPENING **EXPOSED** -INDICATES DRAWING EXTERIOR INSULATION FINISH SYSTEM RT RUBBER TILE NUMBER FACE OF STUD FINISH FLOOR SCHEDULE INDICATES SHEET NUMBER SECTION **FINISHED** SERVICE FIRE ALARM SHEATHING SHEET FIRE EXTINGUISHER **BUILDING SECTION** FIRE EXTINGUISHER BOX FIRE EXTINGUISHER CABINET FIRE HOSE CABINET SIMILAR FIRE RETARDANT TREATED -INDICATES SLAB ON GRADE DIRECTION OF VIEW FIREPROOFING FIXTURE SLIDING GLASS DOOR FLOOR SMOKE DETECTOR INDICATES DRAWING FLOOR DRAIN NUMBER **FLUORESCEN** FOOT ∖ A000<del>√</del> INDICATES SHEET **FOUNDATION** SPECIFICATION NUMBER FURNISH AND INSTA **ELEVATION MARK** FURRED(ING) STAINLESS STEE **FUTURE** STANDARD **INDICATES** STORM DRAIN GALVANIZED STRUCTURAL DIRECTION OF GAUGE SUSPENDED **CUTTING PLANE** GENERAL CONTRACTOR SYMBOL INDICATES DRAWING GOVERNMEN<sup>T</sup> TACKBOARD GRAB BAR TELEPHONE NUMBER **GROUND FAULT INTERRUPTER** TEMPERED INDICATES SHEET THICK (NESS) GYPSUM SHEATHING NUMBER TONGUE AND GROOV GYPSUM WALL BOARD TOP OF WINDOW HANDICAF TREADS HDW HDWD HDR HTR HVAC HGT TYPICAL **WALL SECTION** HARDWOOD HEADER UNDERCUT

HEATER

HOUR

HOUR

HIGHT POINT

HOLLOW CORE **HORIZONTAL** HOSE BIB

HEATING, VENT & AIR COND.

UNLESS NOTED OTHERWISE

### A-INTENT & USE OF CONSTRUCTION DOCUMENTS

1. THE PURPOSE OF THESE DOCUMENTS IS TO CONVEY DESIGN INTENT ONLY. THE CONTRACTOR SHALL A) BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK, B) PROMPTLY NOTIFY ARCHITECT IF THE DRAWINGS AND SPECIFICATIONS ARE AT VARIANCE THEREWITH, AND C) OBTAIN ALL REQUISITE BUILDING AND OTHER PERMITS REQUIRED IN CONNECTION WITH THE WORK.

2. THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND TO BE THOROUGHLY FAMILIAR WITH THE DRAWINGS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR TO EXAMINE ANY FORM, INSTRUMENT OR DOCUMENT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO HIS WORK.

3. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK AT ANY TIME WITHOUT CONTRACT DOCUMENTS, OR WHERE REQUIRED, APPROVED SHOP DRAWINGS, PRODUCT DATA OR SAMPLE FOR SUCH PORTION OF THE WORK.

4. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. DECISIONS OF ARCHITECT AS TO THE ITEMS OF WORK INCLUDED WITHIN THE SCOPE OF THESE DOCUMENTS SHALL BE FINAL AND BINDING ON THE CONTRACTOR AND THE OWNER.

5. THE ARCHITECT RESERVES THE RIGHT TO REJECT ITEMS INCORPORATED INTO THE WORK WHICH FAIL TO MEET THE SPECIFIED MINIMUM REQUIREMENTS. THE ARCHITECT FURTHER RESERVES THE RIGHT, AND WITHOUT PREJUDICE TO OTHER RECOURSE. ARCHITECT MAY OR MAY NOT ACCEPT NON-COMPLYING ITEMS SUBJECT TO ANY ADJUSTMENT IN THE CONTRACT AMOUNT AS APPROVED BY THE ARCHITECT AND/OR THE OWNER.

### B-PERMITS, FEES, TAXES, & NOTICES

1. THE CONTRACTOR SHALL PAY ALL SALES, CONSUMER, AND OTHER SIMILAR TAXES FOR THE WORK OR PORTIONS THEREOF PROVIDED BY THE CONTRACTOR WHICH ARE LEGALLY ENACTED AT THE TIME OF CONSTRUCTION.

2. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND FOR ALL OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

3. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.

4. THE CONTRACTOR SHALL EXERCISE REASONABLE EFFORT TO MAKE CERTAIN THAT THE CONTRACT DOCUMENTS ARE IN ACCORDANCE WITH APPLICABLE LAWS, STATUTES, BUILDING CODES AND REGULATIONS. IF THE CONTRACTOR OBSERVES THAT ANY OF THE CONTRACT DOCUMENTS ARE AT VARIANCE THEREWITH IN ANY RESPECT, HE SHALL PROMPTLY NOTIFY ARCHITECT IN WRITING, AND ANY NECESSARY CHANGES SHALL BE ACCOMPLISHED BY APPROPRIATE MODIFICATION.

5. IF THE CONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO SUCH LAWS, ORDINANCES, RULES AND REGULATIONS, AND WITHOUT SUCH NOTICE TO DESIGNER, HE SHALL ASSUME FULL RESPONSIBILITY THEREFORE AND SHALL BEAR ALL COSTS ATTRIBUTABLE THERETO.

### C-COORDINATION & SUPERVISION

1. ALL WORK TO BE SCHEDULED DURING REGULAR BUSINESS HOURS UNLESS NOTED OTHERWISE.

2. CONTRACTOR TO PROVIDE ADVANCE NOTIFICATION TO TENANT'S REPRESENTATIVE WHEN TENANT OR THEIR CONTRACTOR(S) ARE REQUIRED AT JOB SITE FOR COORDINATION MEETINGS OR INSTALLATIONS.

3. UPON COMPLETION OF THE WORK, THE CONTRACTOR TO NOTIFY BUILDING OWNER REPRESENTATIVE THAT THE PROJECT IS READY FOR INSPECTION. OWNER/REP WILL COMPILE A "PUNCH LIST" OF CORRECTIONS NEEDED OF UNSATISFACTORY AND/OR INCOMPLETE WORK. FINAL PAYMENT WILL BE CONTINGENT UPON THE SUCCESSFUL COMPLETION OF THE PUNCH LIST.

4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND SHALL COORDINATE ALL PORTIONS OF THE

5. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.

6. THE CONTRACTOR TO, AT ALL TIMES, KEEP THE PREMISES FREE OF ACCUMULATION OF WASTE MATERIALS OR RUBBISH; PREMISES TO BE SWEPT

7. THE CONTRACTOR TO PROVIDE FINAL CLEANING OF ALL AREAS OF WORK INCLUDING THE CONSTRUCTION ACCESS ROUTE. FINAL CLEANING TO INCLUDE WINDOWS AND CEILINGS.

### D-LABOR, MATERIALS, & WARRANTY

INDICATES DETAIL

NUMBER

NUMBER

1. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

2. THE CONTRACTOR SHALL AT ALL TIMES ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTOR'S EMPLOYEES AND SHALL NOT EMPLOY ON THE WORK ANY UNFIT PERSON OR ANYONE NOT SKILLED IN THE TASK ASSIGNED THEM.

3. ALL WORK SHALL BE PERFORMED BY SKILLED AND QUALIFIED WORKMEN IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES INVOLVED AND IN COMPLIANCE WITH BUILDING REGULATIONS AND/OR GOVERNMENT LAWS, STATUTES OR ORDINANCES CONCERNING THE USE OF UNION LABOR.

4. CONTRACTOR AND SUB-CONTRACTORS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DOCUMENTS AND MUST NOTIFY ARCHITECT OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.

5. EACH TRADE WILL BE EXPECTED TO PROCEED IN A FASHION THAT WILL NOT DELAY OTHER TRADES.

6. THE CONTRACTOR IS RESPONSIBLE FOR THE DISTRIBUTION OF DRAWINGS TO ALL TRADES UNDER THEIR JURISDICTION.

7. DO NOT SCALE DRAWINGS; DIMENSIONS GOVERN. LARGER SCALE DRAWINGS TO GOVERN OVER SMALLER SCALE DRAWINGS.

8. DIMENSIONS ARE TO THE FINISHED FACE OF NEW CONSTRUCTION. DIMENSIONS ARE NOMINAL UNLESS OTHERWISE INDICATED.

9. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR IS RESPONSIBLE TO GET CLARIFICATION AND DIRECTION FROM ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.

10. THE CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR HIS WORK UNLESS OTHERWISE NOTED.

11. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE BLOCKING FOR WALL SUPPORTED ELEMENTS INCLUDING MILLWORK, EQUIPMENT, FIXTURES AND FURNITURE. CONTRACTOR TO VERIFY EXTENT AND COORDINATE WITH APPROPRIATE SUBCONTRACTORS.

12. ALL MATERIALS TO BE NEW, UNUSED AND OF THE HIGHEST QUALITY IN EVERY RESPECT, UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT TO BE STORED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.

11. THERE WILL BE NO SUBSTITUTIONS OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED. WHERE THE TERMS "EQUAL TO" OR "APPROVED EQUAL" ARE USED, ARCHITECT TO DETERMINE EQUALITY BASED ON INFORMATION SUBMITTED BY THE CONTRACTOR.

12. ALL FINISHES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS FOR THE TYPE OF MATERIAL AND INSTALLATION SPECIFIED.

13. PAINT TO BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS OVER PROPERLY PREPARED SURFACES. WALLS TO BE STRAIGHT AND SMOOTH. PROVIDE MINIMUM ONE COAT PRIME AND ONE FINISH COAT FINISHED COAT TO COMPLETELY COVER WITH NO STREAKING OR BLEEDING OF UNDERCOATS.

14. MILLWORK TO CONFORM WITH AWI STANDARDS FOR PREMIUM GRADE MILLWORK. DRAWINGS INDICATE DESIGN INTENT. FABRICATOR IS RESPONSIBLE FOR MILLWORK ENGINEERING.

15. DRYWALL CONTRACTOR TO CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER TRADES. WHERE DRYWALL IS IN CONFLICT WITH DUCTWORK, PLUMBING LINES, ETC. THIS CONTRACTOR TO PROVIDE ALL NECESSARY BRIDGING AND BRACING REQUIRED TO SECURE DRYWALL AND TO MAINTAIN FIRE OR SOUND RATING WHERE REQUIRED.

16. THE CONTRACTOR WARRANTS TO THE OWNER THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION. ALL WORK NOT CONFORMING TO THESE REQUIREMENTS, INCLUDING SUBSTITUTIONS NOT PROPERLY APPROVED AND AUTHORIZED, MAY BE CONSIDERED DEFECTIVE.

### E- INSTALLATION NOTES (MAY NOT APPLY)

1. ALL INSTALLED PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT TO OPERATE QUIETLY AND BE FREE OF VIBRATION.

2. UNLESS OTHERWISE NOTED IN MECHANICAL DRAWINGS OR SPECIFICATIONS, HOLD DUCTS AND MECHANICAL EQUIPMENT TIGHT TO STRUCTURE ABOVE.

3. THE CONTRACTOR SHALL NOT LOCATE CEILING DIFFUSERS OR REGISTERS WHERE FULL HEIGHT SHELVING, FILES OR STORAGE UNITS ARE INDICATED ON PLANS. (IF APPLICABLE)

4. ALL CEILING DIFFUSERS AND REGISTERS TO BE THE SAME COLOR AS THE CEILING UNLESS NOTED OTHERWISE.

5. ALL SURFACES TO BE PROPERLY PRIMED OR PREPARED PRIOR TO INSTALLATION OF SPECIFIED FINISHES.

5. PATCH ALL AREAS WHERE THE FLOOR IS NOT LEVEL OR TRUE PRIOR TO THE INSTALLATION OF SPECIFIED FLOOR FINISH(-ES).

6. PROVIDE ALL NECESSARY CUT-OUTS FOR THE INSTALLATION OF ELECTRICAL AND VOICE/DATA OUTLETS, THERMOSTATS, SWITCHES AND OTHER DEVICES.

7. EXTEND ALL FIRE RATED PARTITIONS TO STRUCTURE; FILL ALL VOIDS WITH FIRE

SAFING MATERIAL OR FIRE-RATED CAULK, CONTINUOUS AS REQUIRED BY CODE.

8. ALL FIRE EXTINGUISHER CABINETS OR ELECTRICAL PANELS LOCATED IN RATED PARTITIONS TO BE BACKED WITH GYPSUM BOARD AS REQUIRED TO MAINTAIN PARTITION RATING.

9. CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING ALL NEW AND EXISTING FIRE RATED PARTITIONS AND ALL PENETRATION THROUGH RATED AREAS INCLUDING SLABS. SEAL TO MAINTAIN PROPER RATING.

10. WHERE EXISTING FIREPROOFING HAS BEEN REMOVED AT COLUMNS OR BEAMS, NEW FIREPROOFING TO BE INSTALLED TO COMPLY WITH THE REQUIRED FIRE RATING. CONTRACTOR TO VERIFY IN FIELD.

11. WHERE PIPES, CONDUITS OR LOW TENSION WIRING PENETRATE A FIRE RATED ENCLOSURE, THE SPACE AROUND SHALL NOT EXCEED 1/2" AND SHALL BE PACKED SOLID WITH BATT INSULATION AND FITTED WITH ESCUTCHEON PLATES ON BOTH SIDES OR EQUIVALENT TREATMENT TO INSURE COMPLIANCE WITH FIRE RATING.

12. WHERE DUCT OR PART OF DUCT IS RUNNING PARALLEL OVER FIRE RATED PARTITION, EXTEND RATED PARTITION AROUND DUCT TO EFFECT COMPLETE MAINTENANCE OF FIRE-RATING.

APPLICABLE CODES	FLORIDA BUILDING CODE 7TH EDITION 2020	
	FLORIDA EXISTING BUILDING CODE 7TH EDITION	
	2020 FLORIDA FIRE PREVENTION CODE 7TH EDITION	
	2020, NFPA 101 FLORIDA ACCESSIBILITY CODE 2020 EDITION	
	TECKIDA ACCESSIBILITY CODE 2020 EDITION	
ALTERATION LEVEL	LEVEL III ALTERATION	FBC 2020 EXISTING BLDG (50 (803)
OCCUPANCY TYPE	A-1, A-2 ASSEMBLY	FBC 2020 (304.1)
CONSTRUCTION TYPE	V-A	FBC 2020 (TABLE 601)
RISK CATEGORY	III	FBC 2020 (TABLE 1604.5)
SPRINKLERED Y/N	Υ	
FIRE ALARM Y/N	Υ	
OCCUPANT LOAD	BASEMENT: 3.52	
	FIRST FLOOR: 436.09	
	SECOND FLOOR: 286.82	
	THIRD FLOOR: 223.22	
TOTAL OCCUPANT LOAD:	949.65	
BUILDING DATA:		
EXISTING AREA:	14,906.33 SF (B: 4,852.05, 1: 4,977.95, 2: 5,076.33)	
NEW AREA:	2,800 SF	
TOTAL AREA:	17,706.33 SF	FD 0 0000 (TABLE 50 ( 0)
ALLOWABLE AREA:	56,000 SF	FBC 2020 (TABLE 506.2)
ALLOWABLE STORIES:	3 (ADOVE CRADE)	FBC 2020 (TABLE 504.4)
PROPOSED STORIES:	3 (ABOVE GRADE) 70'-0"	FBC 2020 (TABLE 504.2~)
ALLOWABLE BUILDING HEIGHT: PROPOSED BUILDING HEIGHT:	43'-2"	FBC 2020 (TABLE 504.3a)
MAX TRAVEL DISTANCE ALLOWED PROPOSED MAX TRAVEL DISTANCE	250'-0"  BASEMENT: 86'-0" (TO EXTERIOR)  FIRST FLOOR: 88'-10"	FBC 2020 (TABLE 1006.3.2 (2))
	SECOND FLOOR: 139'-4" (TO EXTERIOR)	
	THIRD FLOOR: 148'-0" (TO EXTERIOR)	
MAX COMMON PATH OF TRAVEL	30'-0"	FBC 2020 (1029.8)
PROPOSED COMMON PATH OF TRAVEL	PER PLAN - DOES NOT EXCEED 30'-0"	. 2 2 2 2 3 (1 2 2 7 1 2 7
MAX DEAD-END CORRIDOR:	20'-0"	FBC 2020 (1020.4)
PROPOSED DEAD-END CORRIDOR:	16'-6"	
MINIMUM MEANS OF EGRESS WIDTH	32"	FBC 2020 (1010.1.1
required means of egress width	BASEMENT: .2 (3.52) = .704"	FBC 2020 (1005.3.2)
	FIRST FLOOR: .2 (436.09) = 87.22"	
	SECOND FLOOR: .2 (286.82) = 57.2	
	THIRD FLOOR: .2 (223.22) = 44.64	
REQUIRED # OF EXITS	BASEMENT: 1	FBC 2020 (TABLE 1006.3.2)
	FIRST FLOOR: 2	
	SECOND FLOOR: 2	
	THIRD FLOOR: 2	
PROPOSED # OF EXITS	BASEMENT: 1 (36")	
	FIRST FLOOR: 3 (204")	
	SECOND FLOOR: 2 (68")	
	THIRD FLOOR: 2 (68")	
EXIT SIGNS TO BE READILY VISIBLE FROM ALL POINTS OF EGRESS PATH INDICATING DIRECTION OF EGRESS TRAVEL		FBC 2020 (1008,1013, 1025)
EXIT DOOR TACTILE SIGNAGE AT ALL		

EXIT DOOR TACTILE SIGNAGE AT ALL EXITS REQUIRING AN EXIT SIGN		
EXITO REGUIRITO ATT EXIT STOTA		
	LIFE SAFETY CODE SUMMARY	
APPLICABLE CODES	FLORIDA FIRE PREVENTION CODE 7TH EDITION, 2018	
	NFPA 101, 2018	
OCCUPANCY TYPE	ASSEMBLY	NFPA 101 (12)
BUILDING REHABILITATION	RENOVATION / ADDITION	NFPA 101 (43.1)
CONSTRUCTION TYPE	V (111)	NFPA 101 (TABLE A.8.2.1.2)
SPRINKLERED	YES	(17 (17 (17 (17 (17 (17 (17 (17 (17 (17
FIRE ALARM	YES	
OCCUPANT LOAD:	BASEMENT: 3.52	NFPA 101 (7.3.1.2)
OCCOLATIVI ECAE.	FIRST FLOOR: 436.09	(7.5.1.2)
	SECOND FLOOR: 286.82	
	THIRD FLOOR: 223.22	
TOTAL OCCUPANT LOAD:	949.65	
BUILDING DATA:		
EXISTING AREA:	14,906.33 SF (B: 4,852.05, 1: 4,977.95, 2: 5,076.33)	
NEW AREA:	2,800 SF	
TOTAL AREA:	17,706.33 SF	
MEANS OF EGRESS:		
MAX TRAVEL DISTANCE	250'-0"	NFPA 101 (12.2.6.2)
PROPOSED MAX TRAVEL DISTANCE	BASEMENT: 86'-0" (TO EXTERIOR)	
	FIRST FLOOR: 88'-10"	
	SECOND FLOOR: 139'-4" (TO EXTERIOR)	
	THIRD FLOOR: 148'-0" (TO EXTERIOR)	
MAX COMMON PATH TRAV.	20'-0"	NFPA 101 (12.2.5.1.2)
PROPOSED COMMON PATH TRAV.	PER PLAN - DOES NOT EXCEED 20'-0"	,
DEAD-END CORRIDOR MAX.	50'-0"	NFPA 101 (12.2.5.1.3)
PROPOSED DEAD-END COR.	N/A	,
MIN. MEANS OF EGRESS WIDTH	28"	NFPA 101 (7.3.4.1.2)
REQUIRED EGRESS WIDTH	BASEMENT: .2 (3.52) = .704"	NFPA 101 (7.3.4.1.2)
	FIRST FLOOR: .2 (436.09) = 87.22"	,
	SECOND FLOOR: .2 (286.82) = 57.2	
	THIRD FLOOR: .2 (223.22) = 44.64	
REQUIRED @ OF EXITS	BASEMENT: 1	NFPA 101 (7.4.1.1(1), (12.2.4
	FIRST FLOOR: 2	
	SECOND FLOOR: 2	
	THIRD FLOOR: 2	
PROPOSED # OF EXITS	BASEMENT: 1 (36")	
	FIRST FLOOR: 3 (204")	
	SECOND FLOOR: 2 (68")	
	THIRD FLOOR: 2 (68")	NFPA 101 (TABLE 7.3.3.1)
		(
EXIT SIGNS TO BE READILY VISIBLE FROM ALL POINTS OF EGRESS PATH INDICATING DIRECTION OF EGRESS TRAVEL.		NFPA 101 (7.8)
EXIT DOOR TACTILE SIGNAGE AT ALL EXITS REQUIRING AN EXIT SIGN		NFPA 101 (7.10.1.3)

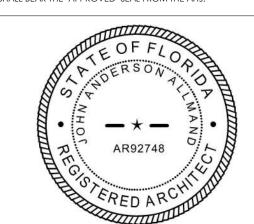
	SHEET #	SHEET NAME	REV.#	DA
	G000	COVER SHEET		
	G101	GENERAL NOTES & CODE		
	Gioi	SUMMARY		
	G102	GENERAL ADA NOTES & DETAILS		
LDG (501),	G103	PARTITION TYPES, SCHEDULES & NOTES	1	4.25.20
	G104	DOOR SCHEDULES & NOTES	1	4.25.20
1.5)	A001	LIFE SAFETY NOTES, DETAILS, & SCHEDULES		
,	A002	LIFE SAFETY PLAN - FIRST & SECOND FLOOR		
	A003	LIFE SAFETY PLAN - BASEMENT & THIRD FLOOR		
	A101	DEMOLITION - FIRST & SECOND FLOOR		
	A102	DEMOLITION - BASEMENT & ROOF		
	A103	NEW FLOOR PLAN - FIRST & SECOND FLOOR	1	4.25.20
	A104	NEW FLOOR PLAN - BASEMENT & ROOF		
	A105	ENLARGED RESTROOMS		
2)	A106	EQUIPMENT PLAN	1	4.25.20
4)	A107	ELEVATION PLAN	1	4.25.20
,	A200	RCP NOTES & SCHEDULES		
3a)	A201	REFLECTED CEILING PLAN		
,	A202	REFLECTED CEILING PLAN		
	A301	ROOF PLAN		
	A401	EXTERIOR ELEVATIONS		
5.3.2 (2))	A501	BUILDING SECTIONS		
	A502	BUILDING SECTION		
	A503	NOT USED		
	A504	STAIR SECTION @ FRONT		
	A505	STAIR SECTION @ REAR		
	A506	STAIR SECTION @ MAIN FLOOR		
	A507	STAIR SECTIONS & DETAILS		
	A601	TYP. DOOR FRAMING DETAILS		
	A602	TYP. WALL & CEILING DETAILS		
	A603	TYP. DETAILS		
	A701	UL U305		
	A702	UL U419		
	A703	UL U415		
	A704	UL X528		
5.3.2)	A705	UL D744, UL D-0077		
	A706	PENETRATION DETAILS		

REV.#	DATE	
		A R C H I T E C T U R E - I N C
1	4.25.2022	JAA ARCHITECTURE INC. 2716 ST. JOHN'S AVE JACKSONVILLE FL. 32205
1	4.25.2022	P: (904) 379-5108 E: JOHN@JAAARCHITECTURE.COM LIC. AR92748
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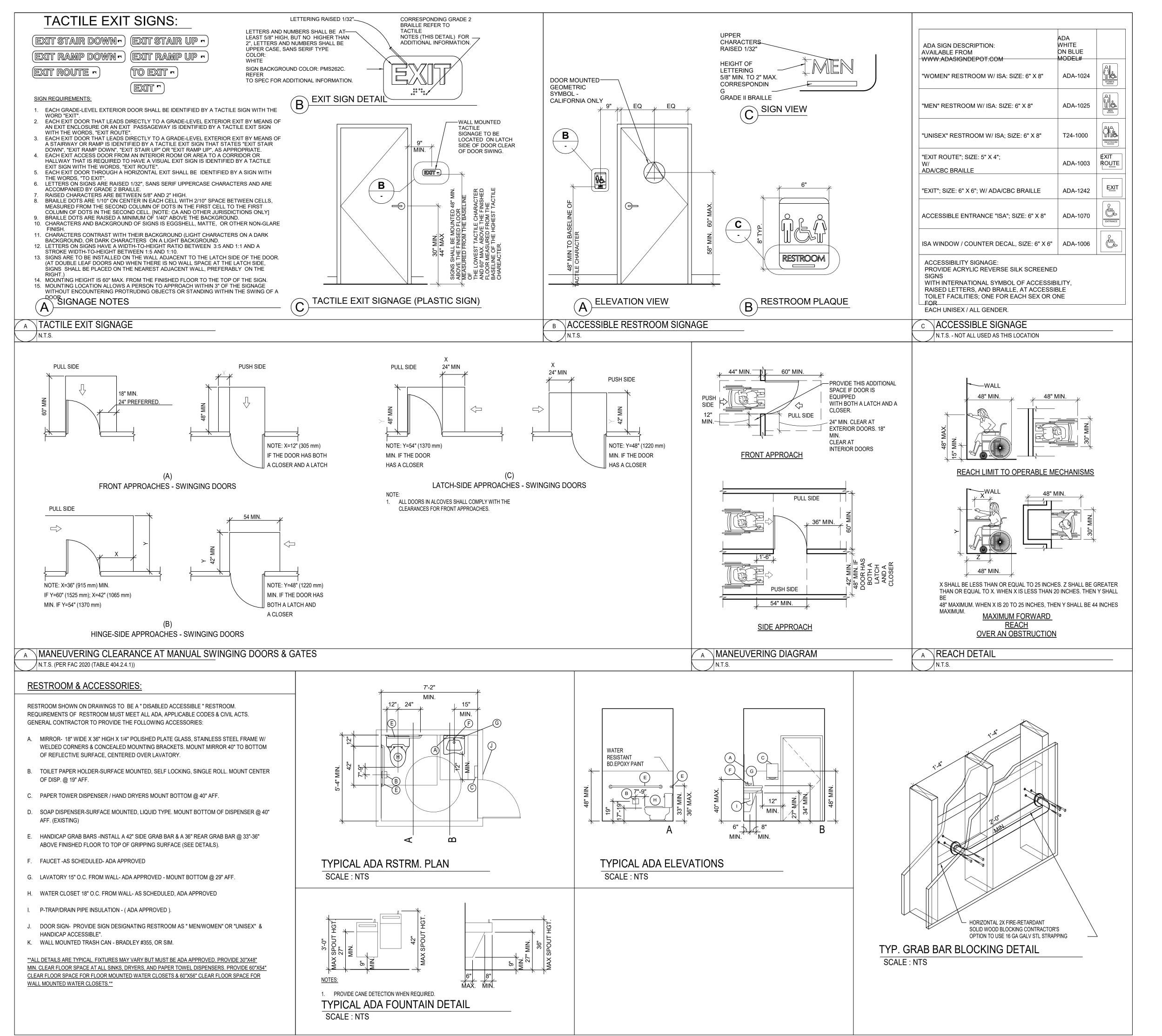
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2.22.2022 GENERAL NOTES & CODE SUMMARY

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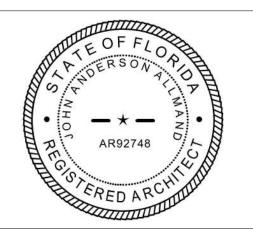
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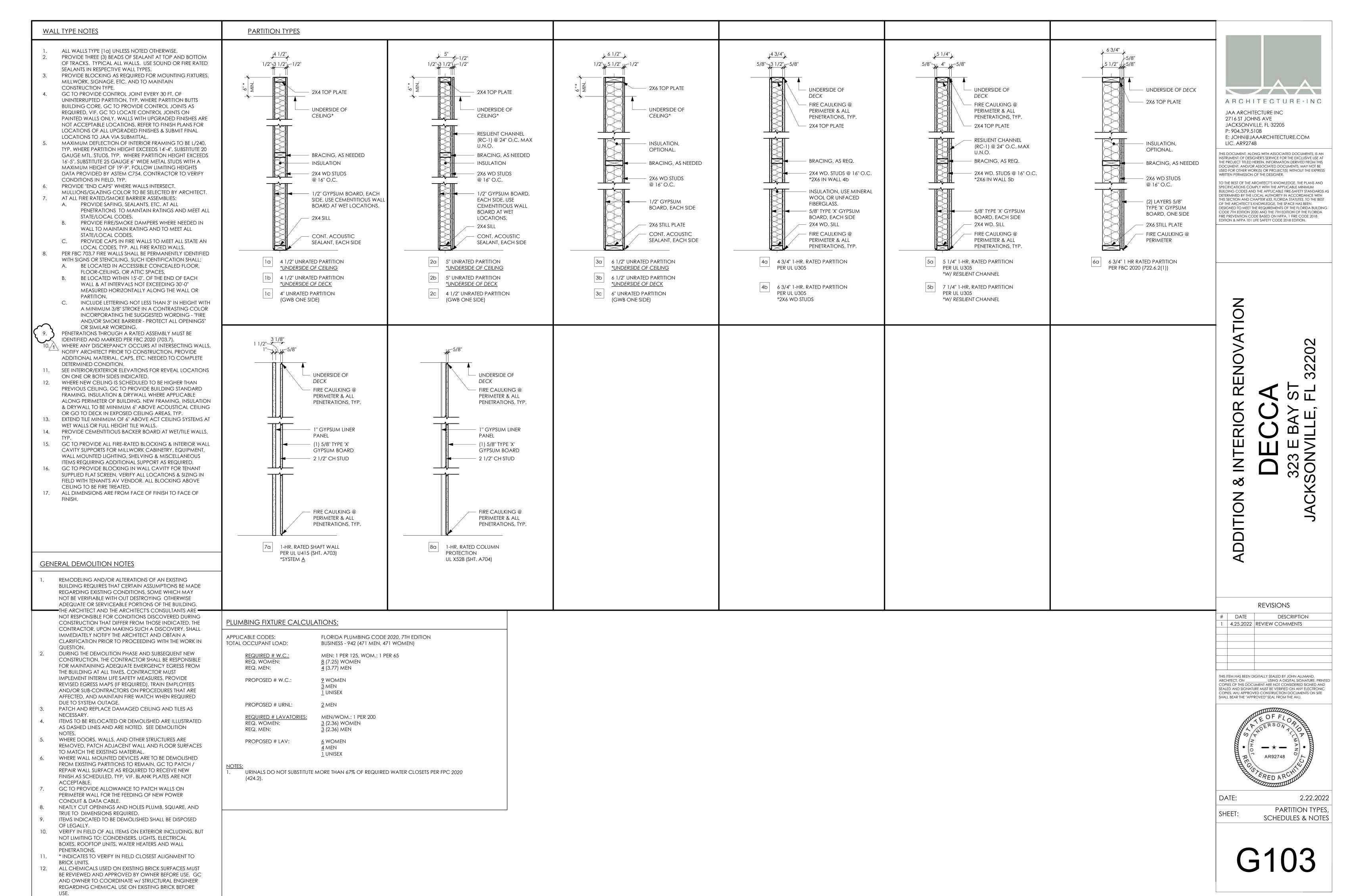


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DETAILS

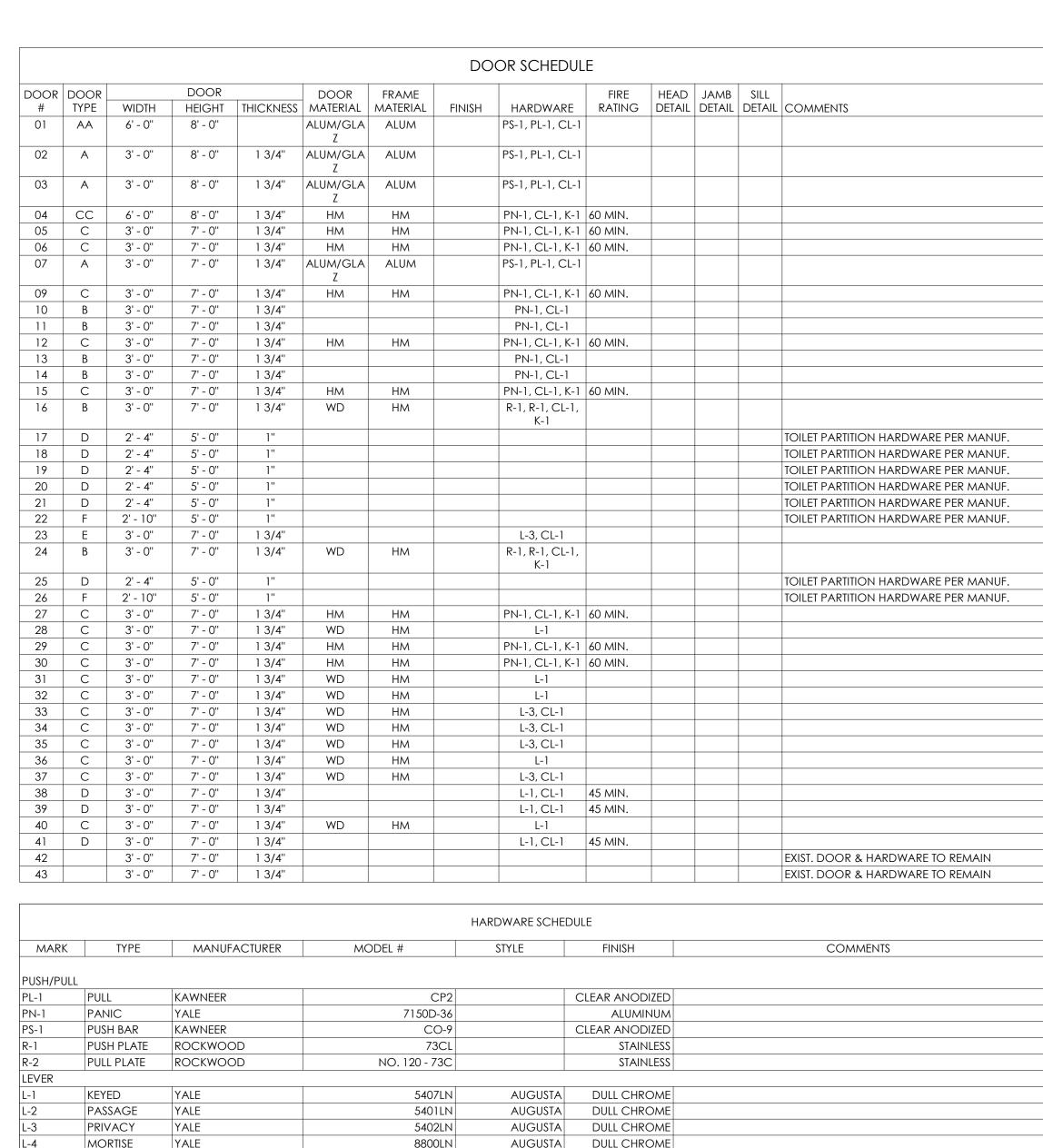
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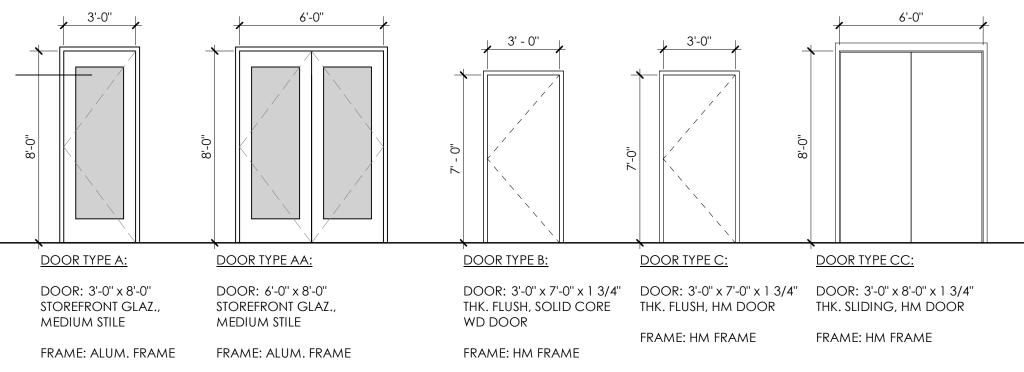


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				HARDWARE SCHE	DULE	
MARK	TYPE	MANUFACTURER	MODEL #	STYLE	FINISH	COMMENTS
PUSH/PULL						
PL-1	PULL	KAWNEER	CP2		CLEAR ANODIZED	
PN-1	PANIC	YALE	7150D-36		ALUMINUM	
PS-1	PUSH BAR	KAWNEER	CO-9		CLEAR ANODIZED	
R-1	PUSH PLATE	ROCKWOOD	73CL		STAINLESS	
R-2	PULL PLATE	ROCKWOOD	NO. 120 - 73C		STAINLESS	
LEVER	•					
L-1	KEYED	YALE	5407LN	AUGUSTA	DULL CHROME	
L-2	PASSAGE	YALE	5401LN	AUGUSTA	DULL CHROME	
L-3	PRIVACY	YALE	5402LN	AUGUSTA	DULL CHROME	
L-4	MORTISE	YALE	8800LN	AUGUSTA	DULL CHROME	
L-5	KNOB	YALE	5405	CAROLINA	DULL CHROME	
KICKPLATE						
K-1	12"	ROCKWOOD	K1050-8 8X34		DULL	
DEADBOL1						
D-1	DEADBOLT	YALE	D262		DULL CHROME	
CLOSER						
CL-1	CLOSER	YALE	2700		ALUMINUM	
SP-1	SPRING HINGE	HAGER	1250			



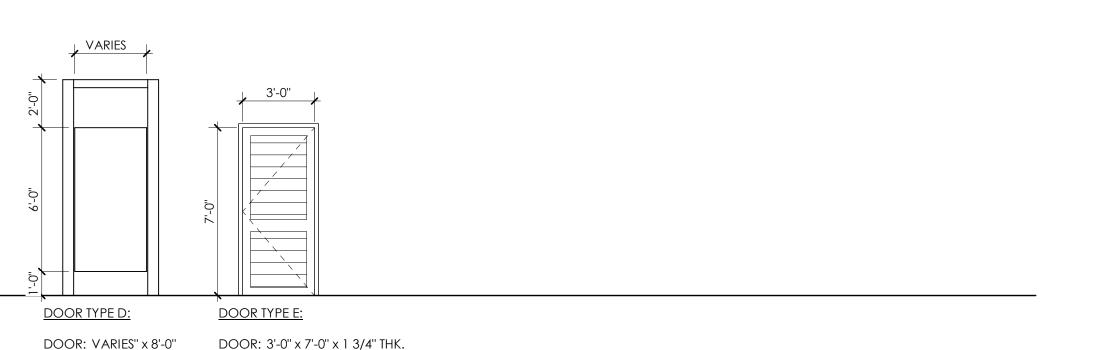
\*FINAL DOOR STYLE TBD AT LATER DATE.

TOILET PARTITION PER

SHOP DWG

FLUSH, W/LOUVRE

FRAME: HM FRAME



### **DOOR HARDWARE NOTES:**

TO A CLOSED POSITION.

- ALL NEW HARDWARE TO BE ADA COMPLIANT. ALL HINGED SWINGING DOORS TO BE OF A LEVER-TYPE. ALL SLIDING DOORS TO HAVE OPERABLE HARDWARE THAT IS USABLE AND EXPOSED WHEN IN THE FULLY OPEN POSITION.
- ALL INTERIOR HINGED AND SLIDING DOORS SHALL HAVE NO MORE THAN 5 LBS OF OPERATING FORCE. ALL EXTERIOR HINGED DOORS TO HAVE NO MORE THAN 81/2 POUNDS OF OPERATING FORCE.
- ALL ADA REQUIRED OPERABLE HARDWARE TO BE NO LESS THAN 34" AND NO MORE THAN 48" ABOVE FINISHED FLOOR. ALL ADA DOOR AND GATE CLOSERS TO HAVE A MINIMUM OF 5 SECONDS TO WHEN THE DOOR IS OPEN TO A 90°
- POSITION, WHEN IT GETS TO A 12° POSITION, AND TO THE ALL ADA DOOR AND GATE SPRING HINGES TO HAVE A MINIMUM OF 11/2 SECONDS FROM OPEN POSITION OF 70°
- UNO, GC TO TIE ALL DOORS EQUIPPED WITH CARD READERS TO THE BUILDING EMERGENCY SYSTEM FOR "FAIL-SAFE" OPERATION. GC TO COORDINATE WORK IN FIELD WITH
- LANDLORD & TENANT'S SECURITY VENDOR. QUANTITIES OF HARDWARE TO BE USED TO BE DETERMINED
- BY GENERAL CONTRACTOR. ALL DOORS TO PROVIDE DOOR SILENCERS & STOPPERS
  - ROCKWOOD 608-RKW ROCKWOOD 443.26D a. G.C. MAY SUBSTITUTE WITH SIMILAR.
- DOOR STYLE & TYPE MAY BE SUBSTITUTED BY OWNER / G.C. DOOR HARDWARE MAY BE SUBSTITUTED WITH SIM. BY OWNER / G.C.
- G.C. TO VERIFY FINAL DOOR STYLE, TYPE, & HARDWARE W/ OWNER BEFORE PURCHASE.

### **STOREFRONT NOTES:**

- ALL STOREFRONT FRAMES TO BE 2"X4 1/2" CENTER SET FLUSH GLAZING U.N.O. STOREFRONT AT CONFERENCE ROOM TO BE FRAMELESS
- SHOP DRAWINGS SHALL BE SUBMITTED TO ARCHITECT / G.C.
- FOR APPROVALS. GLAZING IN DOORS SHALL BE CATEGORY I (GLASS < 9 SF\_
- OR CATEGORY II (GLASS > 9 SF) SAFETY GLAZING PER FBC 2406.4.1 & TABLE 2406.2(1). SLIDING GLASS DOORS SHALL BE CATEGORY II SAFETY
- GLAZING PER FBC 2406.2(1). GLAZING ADJACENT TO DOORS WITHIN 24" OF DOOR
- EDGES IN CLOSED POSITION, WHERE GLAZING IS LESS THAN 60" ABOVE FLOOR PER FBC 2406.4.2. CATEGORY I (GLASS < 9 SF) OR CATEGORY II (GLASS > 9 SF) SAFETY GLAZING.
- GLAZING IN WINDOWS SHALL BE CATEGORY II SAFETY GLAZING PER FBC 2406.4.3.

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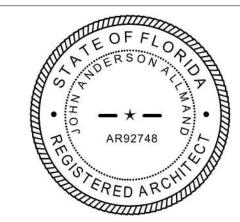
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2.22.2022 DATE:

SHEET: DOOR SCHEDULES & NOTES



### LIFE SAFETY LEGEND LIFE SAFETY NOTES 1. EXIT DISCHARE AT 3'-0" DOOR IS RECOGNIZED AS 34" CLEAR w/ ½" MAX. THRESHOLD. EGRESS DIRECTION & WIDTH 2. EXIT DISCHARE AT 6'-0" DOOR IS RECOGNIZED AS 68" CLEAR w/ ½" MAX. THRESHOLD. 3. ALL HARDWARE INCLUDING CLOSER, HANDLES, PULLS, NEW EXIT SIGN, ILLUMINATED LATCHES, LOCKS, AND PANIC HARDWARE TO BE ADA COMPLIANT. NEW EXIT SIGN, ILLUMINATED W/ 4. MAIN EXIT DOORS AT FRONT EXIT TO DEDICATED PATH EGRESS LIGHTING OF TRAVEL/ACCESSIBLE ROUTE TO PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, AND NEW 'NO EXIT' SIGN, ILLUMINATED PASSENGER LOADING ZONES. 5. ALL PATHS IN ASSEMBLY AREA MUST BE 44" CLEAR ACCESSIBLE EGRESS/ENTRANCE MINIMUM. -6. A MAXIMUM OF 4" CAN OVERLAP THE PATH OF EXIT LIGHTING, DIRECTIONAL EGRESS. IF PROJECTION OVERLAPS, THIS SHALL BE WALL BRACKET MOUNTED DEFINED AS THE NEW CLEAR WIDTH. 7. ALL TEXTILES, PROPS, AND OTHER TEMPORARY EVENT MP-10 FIRE EXTINGUISHER STRUCTURES MUST MEET NFPA 701 'STANDARD - MAX. TRAVEL DISTANCE METHODS OF FIRE TESTS FOR FLAME PROPAGATION OF TEXTILES AND FILM'. — - - — - - FIRE EXTINGUISHER TRAVEL DISTANCE A. USE MASTER FLAME, NO-BURN, OR SIMILAR THAT MEETS NFPA 701. USE PER MANUFACTURER'S — — — — COMMON TRAVEL METHODS. DISTANCE 8. CHANGES IN LEVEL BETWEEN 1/4" MIN. & 1/2" HIGH STARTING LOCATION MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. FIRE ALARM HORN AND A. THE ELEVATION OF THE FLOOR SURFACE ON BOTH STROBE SIDES OF ANY DOOR SHALL NOT VARY BY MORE THAN 1/2".; SHALL BE MAINTAINED ON BOTH SIDES FIRE ALARM PULL STATION OF THE DOOR OPENING FOR A DISTANCE NOT LESS THAN THE WIDTH OF THE WIDEST LEAF CFRS DISPLAY ENTRY/EXIT B. RAISED THRESHOLDS AND FLOOR LEVEL; CHANGES CLEARANCE IN EXCESS OF 1/4" AT DOORSWAYS SHALL BE BEVELED WITH A SLOP NOT STEEPER THAN 1:2. NFPA EMERGENCY WALL LIGHT 4 101 (7.2.1.3.2, 7.2.1.3.3) w/BATTERY PACK 9. FIRE EXTINGUISHERS SHALL BE PROVIDED, INSTALLED, INSPECTED AND TAGGED BY A LICENSED FIRE EMERGENCY CEILING EXTINGUISHER COMPANY. MOUNTED LIGHT A. FIRE EXTINGUISHERS IN KITCHEN TO BE MINIMUM CLASS K, 1.5 GALLON (6L) CAPACITY. FIRE EXTINGUISHER SIGN WITH DOWN ARROW B. FIRE EXTINGUISHERS TO MINIMUM 2A 10B:C. 10. G.C. TO PROVIDE EMERGENCY BALLAST @ EXTERIOR SIGN '\_\_\_\_\_\_', 2" LETTERS LIGHTING WHERE EGRESS EXITS ARE LOCATED. TYP. @ ALL LOCATIONS. SIGN '\_\_\_\_\_', 4" LETTERS A. IF EMERGENCY BALLASTS ARE NOT PROVIDED NEW EXTERIOR EGRESS LIGHTING TO BE SURE LITES "APWR2", OR SIM., TO BE TIED INTO EXISTING EMERGENCY CIRCUIT. B. NEW INTERIOR EGRESS LIGHTING TO BE SURE LIGHTS "APEL", OR SIM., TO BE TIED INTO EXISTING EMERGENCY CIRCUIT. 11. ALL LOCKED DOORS WITHIN THE DESIGNED FACILITY IF PROVIDED WITH A LOCK, SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFECT FOR OPERATION FROM THE EGRESS SIDE. 12. IT IS UNDERSTOOD AND ACKNOWLEDGED THAT IF THE



EMERGENCY RESPONDER RADIO COMMUNICATIONS SIGNAL IS BELOW ACCEPTABLE LEVELS AS DEFINED BELOW A BDA WILL BE REQUIRED TO BE INSTALLED BEFORE ISSUANCE OF CERTIFICATE OF OCCUPANCY. 13. THIS PROJECT DOES CONTAIN LIGHT FRAME TRUSS TYPE

MATERIALS AND DOES NEED TO BE LABELED

ACCORDING TO FAC 69A-60.0081.

### **OCCUPANCY NOTES:**

13.2.5.5.5 ROWS OF SEATING SERVED BY AISLES OR DOORWAYS AT BOTH ENDS SHALL NOT EXCEED 100 SEATS PER ROW.

13.4.10.2.4 INDIVIDUAL CHAIR-TYPE SEATS SHALL BE PERMITTED IN FOLDING AND TELESCOPIC SEATING ONLY IF FIRMLY SECURED IN GROUPS OF NOT LESS THAN THREE.

13.7.9.2.3 SEATING DIAGRAMS SHALL BE SUBMITTED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION TO PERMIT AN INCREASE IN OCCUPANT LOAD PER 7.3.1.3

### OCCUPANT LOAD:

13.1.7.1.1 IN AREAS NOT IN EXCESS OF 10,000 SF THE OCCUPANT LOAD SHALL NOT EXCEED ONE PERSON IN 5

13.1.7.1.2 IN AREAS IN EXCESS OF 10,000 SF THE OCCUPANT LOAD SHALL NOT EXCEED ONE PERSON IN 7 SF.

### 13.7.9.3 OCCUPANT LOAD POSTING

13.7.9.3.1 EVERY ROOM CONSTITUTING AN ASSEMBLY OCCUPANCY AND NOT HAVING FIXED SEATS SHALL HAVE THE OCCUPANT LOAD OF THE ROOM POSTED IN A CONSPICUOUS PLACE NEAR THE MAIN EXIT FROM THE ROOM

13.7.9.3.2 APPROVED SIGNS SHALL BE MAINTAINED IN A LEGIBLE MANNER BY THE OWNER OR AUTHORIZED AGENT

13.7.9.3.3 SIGNS SHALL BE DURABLE AND SHALL INDICATE THE NUMBER OF OCCUPANTS PERMITTED FOR EACH **ROOM USE** 

DOO!! "	BOOM NAME		CCUPANCY SCH		
ROOM # BASEMENT	ROOM NAME	AREA	AREA PER OCC.	OCC. LOAD	Classification
3ASEMENI 401	VESTIBULE	84 SF	O SF	0	Circulation
402	ELEVATOR	72 SF	0 SF		
403	EQUIPMENT ROOM	58 SF	300 SF		Accessory storage areas, mechanical equipmer room
404	ELECTRICAL ROOM	99 SF	300 SF	.33	Accessory storage areas, mechanical equipmer room
406	HALL	203 SF	0 SF	0	Circulation
407	CRAWL SPACE	3515 SF	0 SF	0	Non-occupied Areas
408	RESTRM.	55 SF	0 SF		
409	OFFICE	152 SF	150 SF		Business areas
410	OFFICE	150 SF	150 SF		Business areas
411	STOR.	103 SF	300 SF		Accessory storage areas, mechanical equipme room
412	STOR.	199 SF	300 SF	.6/	Accessory storage areas, mechanical equipme room
FIRST FLOC 101	i e	191 SF	7 SF	27.20	Assembly Concentrated
102	LOBBY (A) RECEPTION	191 SF	150 SF		Assembly Concentrated  Business areas
103	ELEVATOR LANDING	55 SF	0 SF		Circulation
104	ELEVATOR LANDING	75 SF	0 SF		
105	LOBBY (B)	154 SF	7 SF		Assembly Concentrated
106	EXIT ACCESS STAIRCASE	76 SF	0 SF		Circulation
107	MAIN FLOOR	2257 SF	7 SF		Assembly Concentrated
108	CONV. STAIR	148 SF	0 SF		,
109	BAR SEATING	223 SF		22.75	Bar seating (1 per 24 lin. in.)
110	BAR	333 SF	150 SF		Business areas
111	HALL	80 SF	0 SF	0	Circulation
112	STAGE	551 SF	15 SF	36.8	Stages and platforms
113	STOR.	226 SF	300 SF	.74	Accessory storage areas, mechanical equipme room
114	STOR.	15 SF	300 SF		Accessory storage areas, mechanical equipme room
115	REAR EXIT ACCESS STAIRCASE	164 SF	0 SF		Circulation
116	BASEMENT STAIR	109 SF	0 SF	0	Circulation
SECOND F					
201	CONV. STAIR	126 SF	0 SF		Circulation
202	ELEVATOR	84 SF	0 SF		Circulation
203	ELEV. LANDING	91 SF 273 SF	0 SF		Circulation Circulation
204	FRONT EXIT ACCESS STAIRCASE REAR EXIT ACCESS	248 SF	O SF		Circulation
203	STAIRCASE	240 31	0.31		
206	SECOND FLOOR	1746 SF	7 SF	249.52	Assembly Concentrated
207	BAR	184 SF	150 SF		Business areas
208	BAR SEATING	292 SF		31.5	Bar seating (1 per 24 lin. in.)
209	JAN.	52 SF	300 SF	.19	Accessory storage areas, mechanical equipme room
210	MEN.	177 SF	0 SF		
211	WOM.	301 SF	0 SF		Circulation
212	STOR.	45 SF	0 SF		Circulation
213	BAR SEATING	30 SF	0 SF		Circulation
220	EQUIPMENT	43 SF	300 SF		Accessory storage areas, mechanical equipme room
225	BAR OF (BOOF)	111 SF	150 SF	./4	Business areas
111111 FLO 301	OR (ROOF) FRONT EXIT ACCESS STAIR	111 SF	O SF	_	Circulation
301	REAR EXIT ACCESS STAIR	92 SF	300 SF		Accessory storage areas, mechanical equipme room
303	ROOFTOP LOUNGE	1332 SF	7 SF	190 28	Assembly Concentrated
304	BAR	244 SF	150 SF		Business areas
305	BAR SEATING	337 SF			Bar seating (1 per 24 lin. in.)
306	STOR.	20 SF	300 SF		Accessory storage areas, mechanical equipme room
307	STOR.	69 SF	300 SF	.23	Accessory storage areas, mechanical equipme room
308	STOR.	99 SF	300 SF	.33	Accessory storage areas, mechanical equipme room
309	HALL	90 SF	0 SF	0	Circulation
307	WOM.	47 SF	0 SF	0	Circulation
	110111.				
310 311	WOM.	47 SF	0 SF	0	Circulation
310		47 SF 44 SF 2152 SF	0 SF 0 SF 0 SF	0	Circulation Circulation Non-occupied Areas



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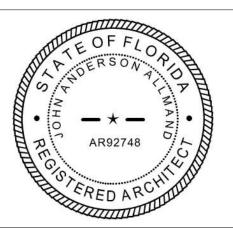
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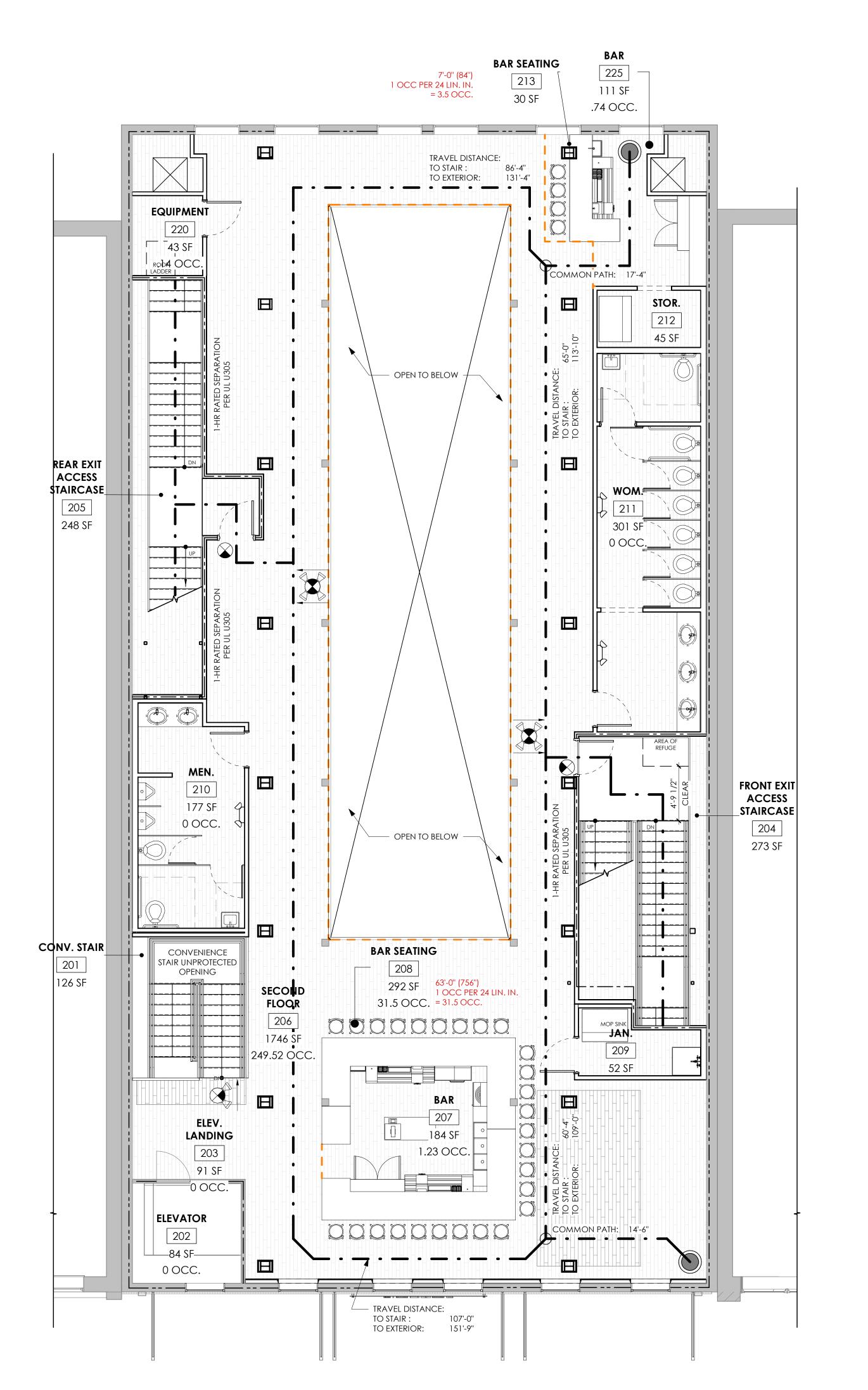
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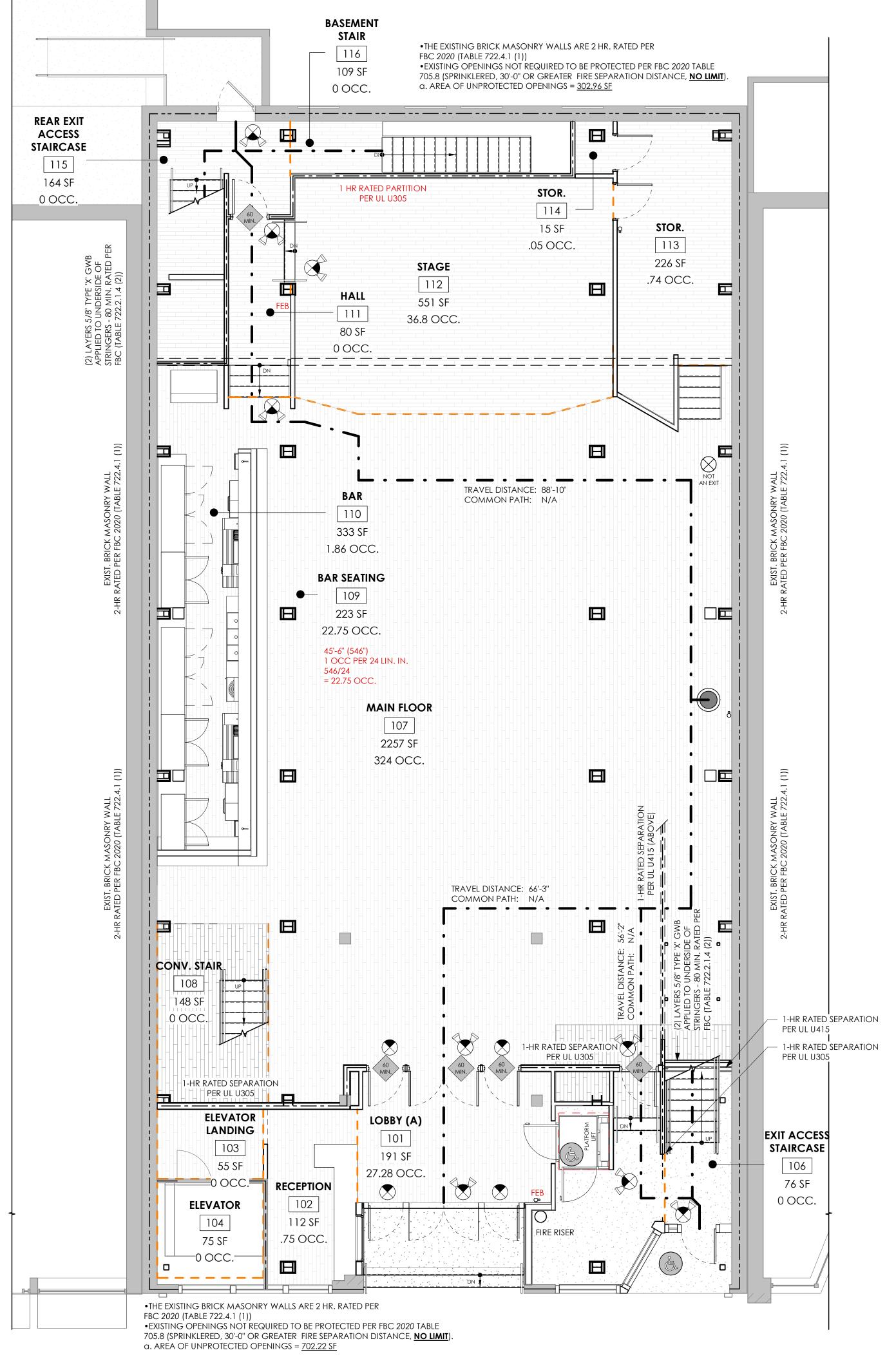


2.22.2022 SHEET: LIFE SAFETY NOTES, DETAILS, & SCHEDULES

20-121.01

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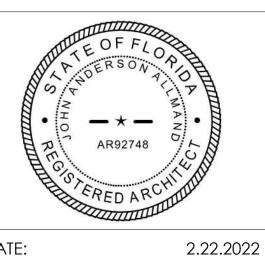
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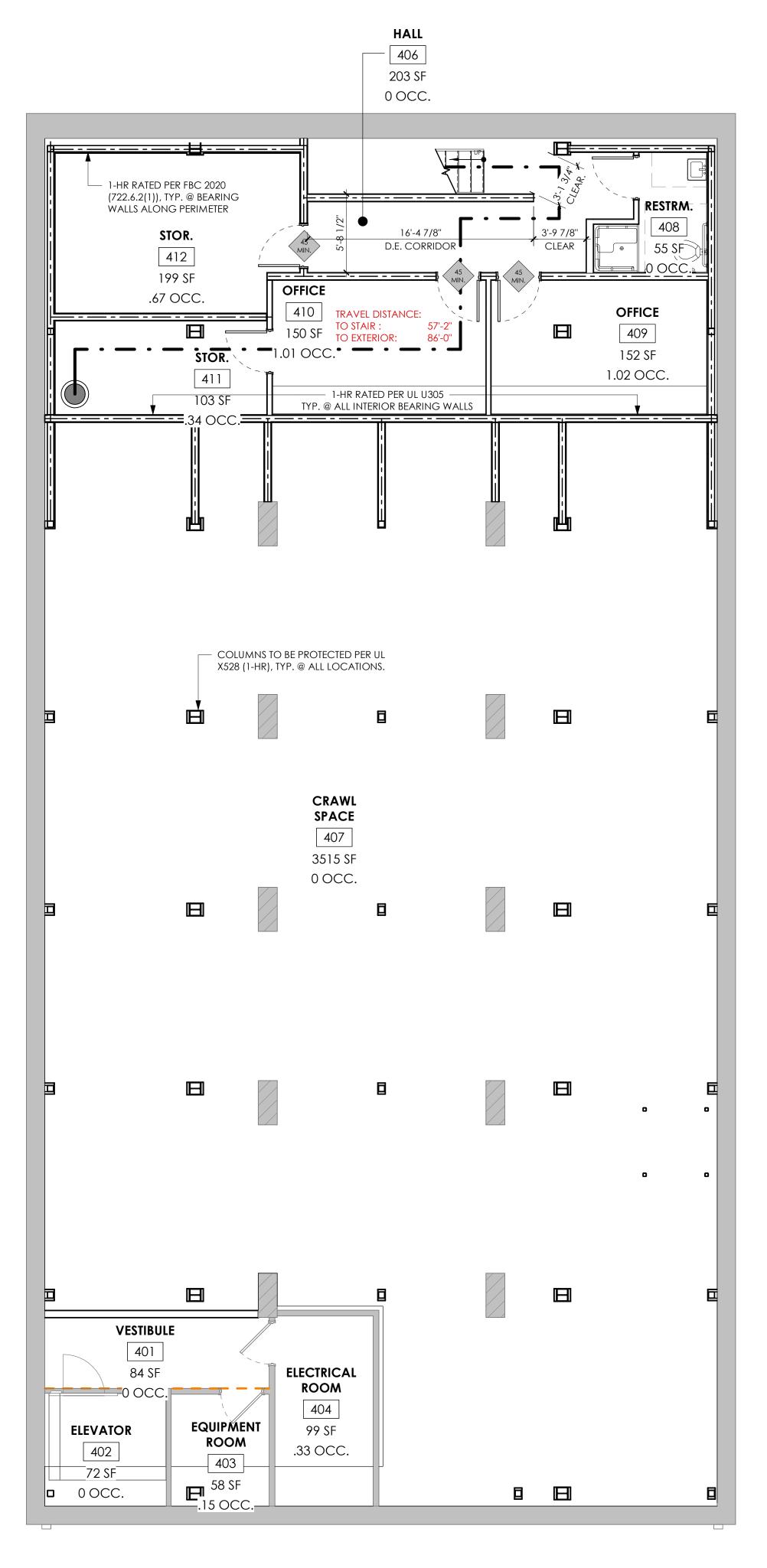
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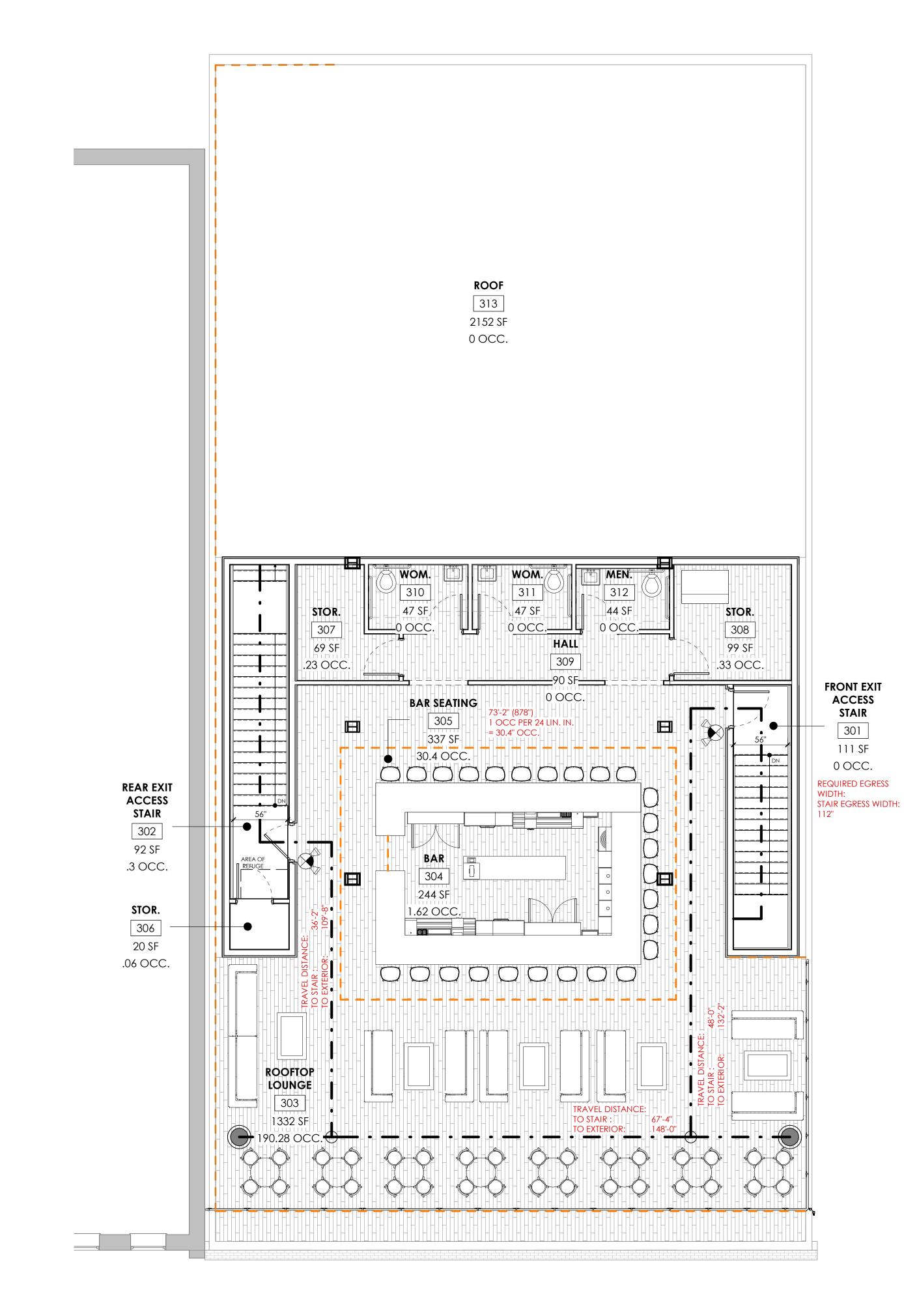
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DATE: LIFE SAFETY PLAN - FIRST & SECOND FLOOR







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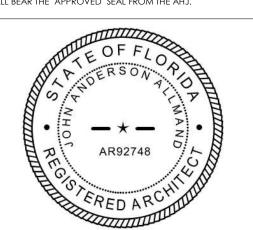
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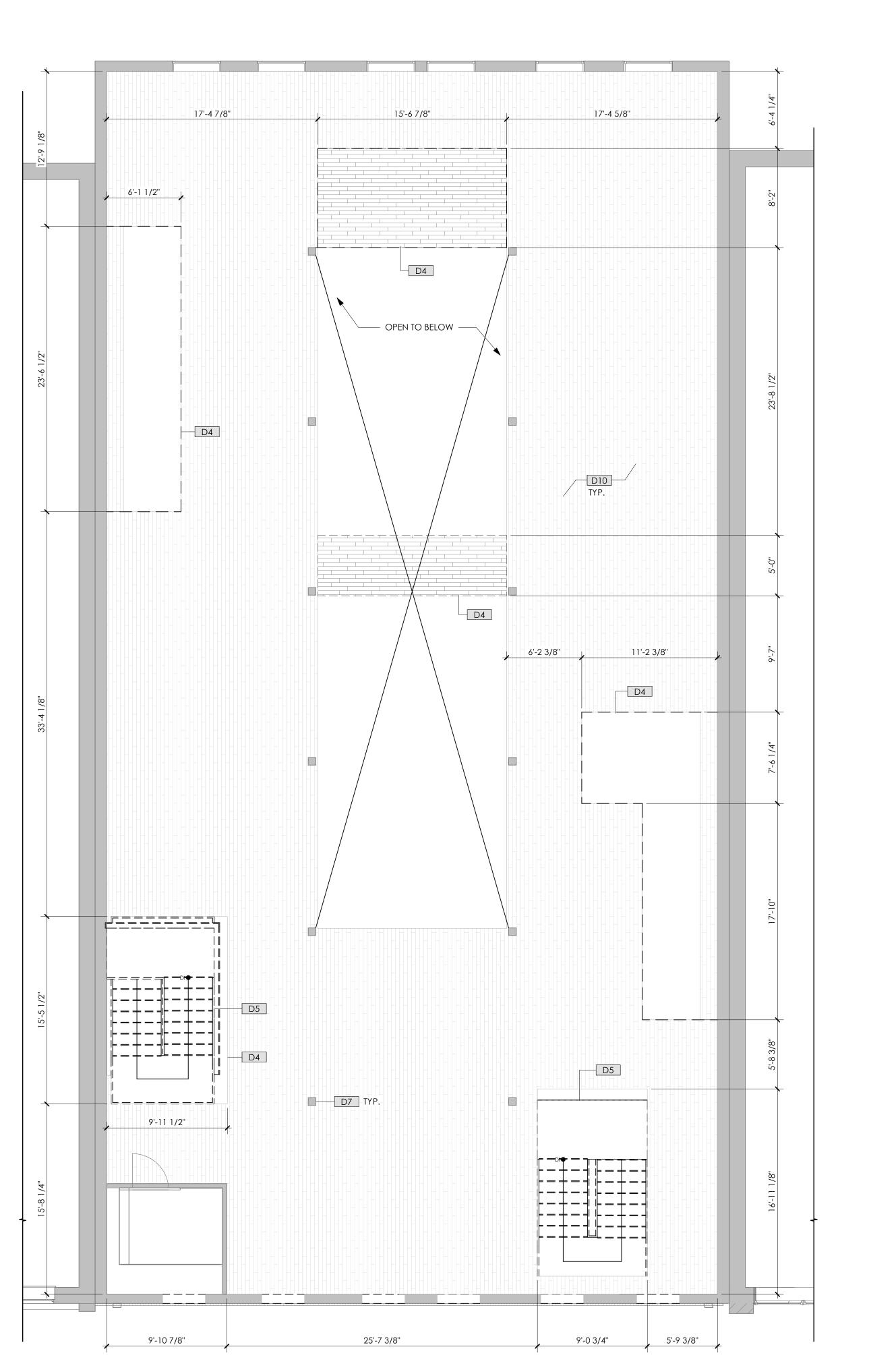
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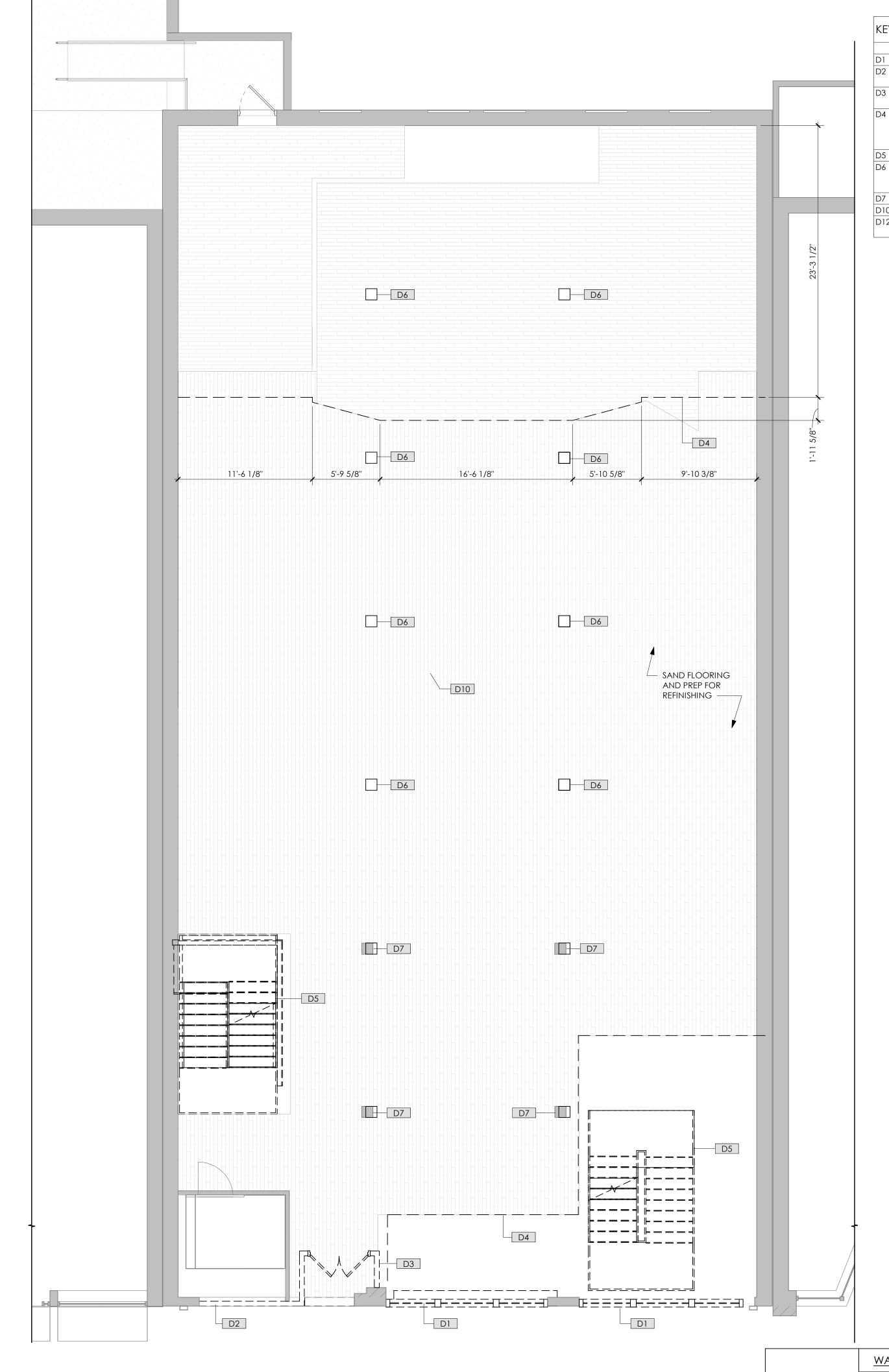
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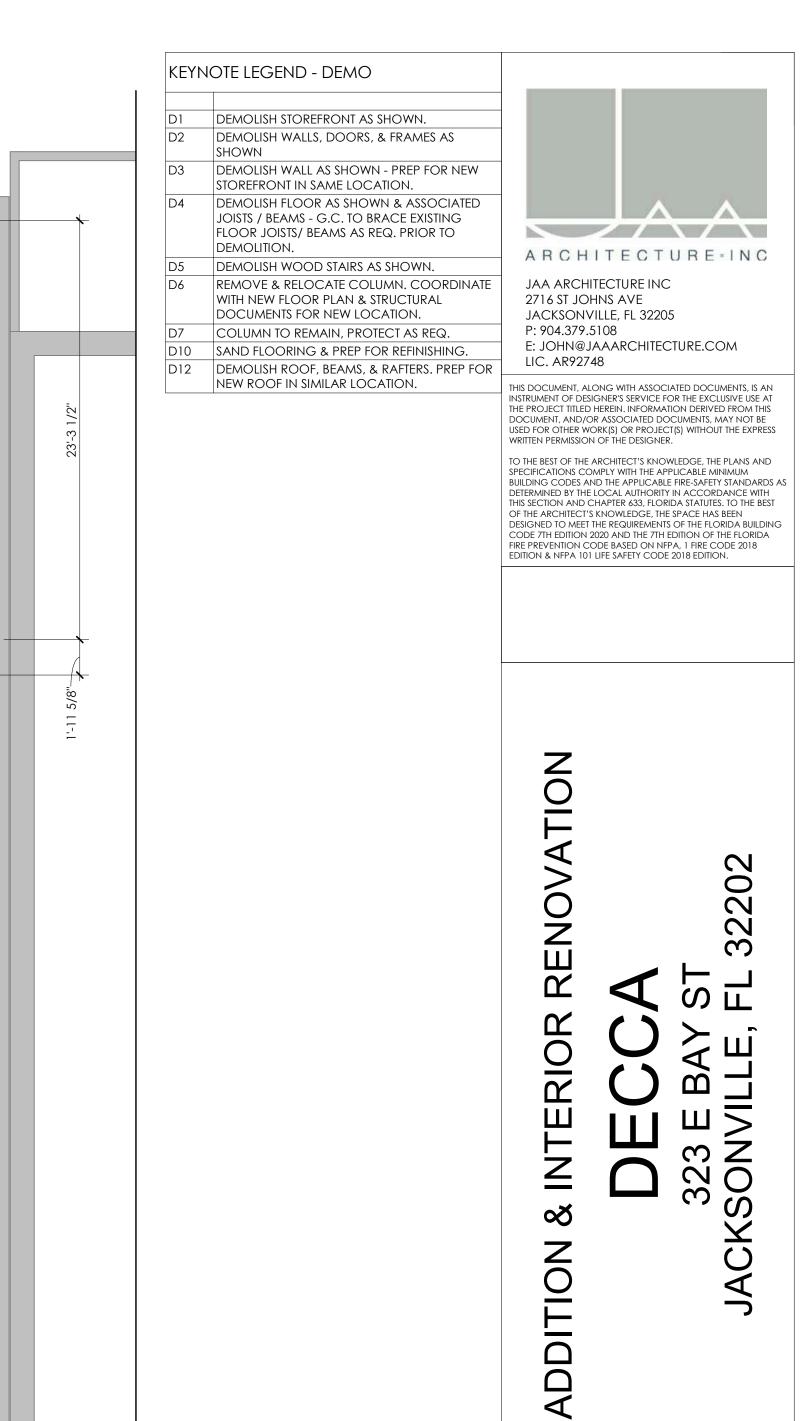


SHEET: LIFE SAFETY PLAN -BASEMENT & THIRD FLOOR

2.22.2022



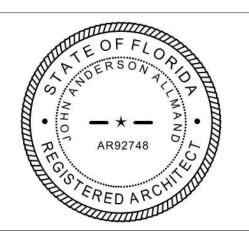




	REVISIONS
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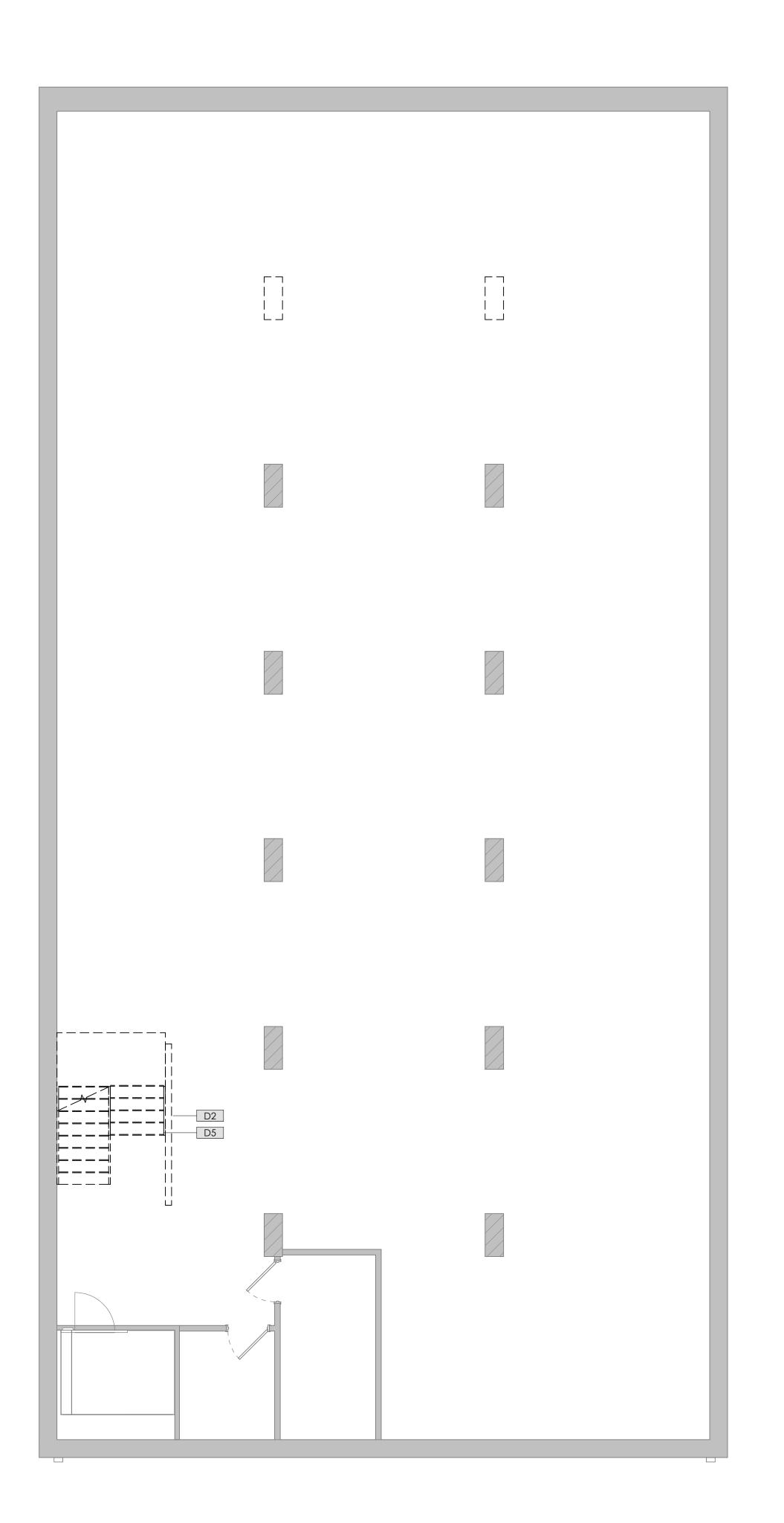


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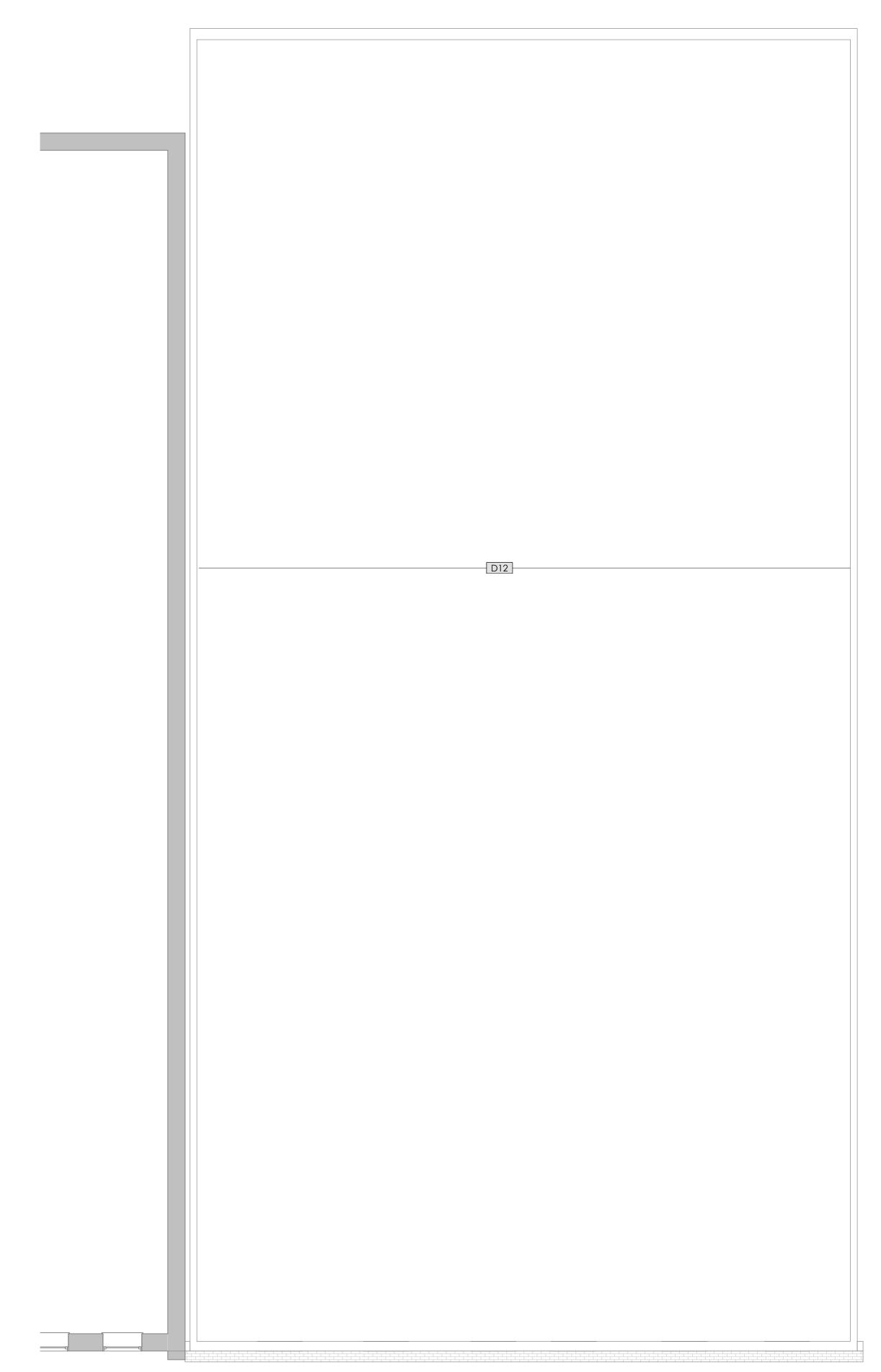
2.22.2022 OLITION - FIRST & SECOND FLOOR

EXIST. WALL TO REMAIN ☐ ☐ ☐ WALL TO BE DEMOLISHED NEW PARTITION PER SCHEDULE PERMIT

WALL TYPE LEGEND: 1-HR. RATED PARTITION



2 DEMOLITION PLAN - BASEMENT 3/16" = 1'-0"



KEYNOTE LEGEND - DEMO

D1 DEMOLISH STOREFRONT AS SHOWN.
D2 DEMOLISH WALLS, DOORS, & FRAMES AS

D3 DEMOLISH WALL AS SHOWN - PREP FOR NEW STOREFRONT IN SAME LOCATION.

D4 DEMOLISH FLOOR AS SHOWN & ASSOCIATED JOISTS / BEAMS - G.C. TO BRACE EXISTING FLOOR JOISTS/ BEAMS AS REQ. PRIOR TO

D5 DEMOLISH WOOD STAIRS AS SHOWN.
D6 REMOVE & RELOCATE COLUMN. COORDINATE

DEMOLITION.

D6 REMOVE & RELOCATE COLUMN. COORI WITH NEW FLOOR PLAN & STRUCTURAL DOCUMENTS FOR NEW LOCATION.

DOCUMENTS FOR NEW LOCATION.

COLUMN TO REMAIN, PROTECT AS REQ.

D10 SAND FLOORING & PREP FOR REFINISHING.
D12 DEMOLISH ROOF, BEAMS, & RAFTERS. PREP FOR NEW ROOF IN SIMILAR LOCATION.

A R C H L T E C T LI R E - L N C

A R C H I T E C T U R E - I N C

E JAA ARCHITECTURE INC

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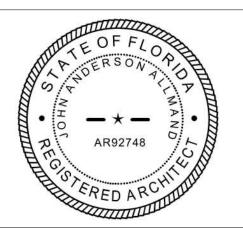
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# ADDITION & INTERIOR RENOVATION

	REVISIONS
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	DATE

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DATE: 2.22.2022

SHEET: DEMOLITION - BASEMENT & ROOF

Λ **1** 

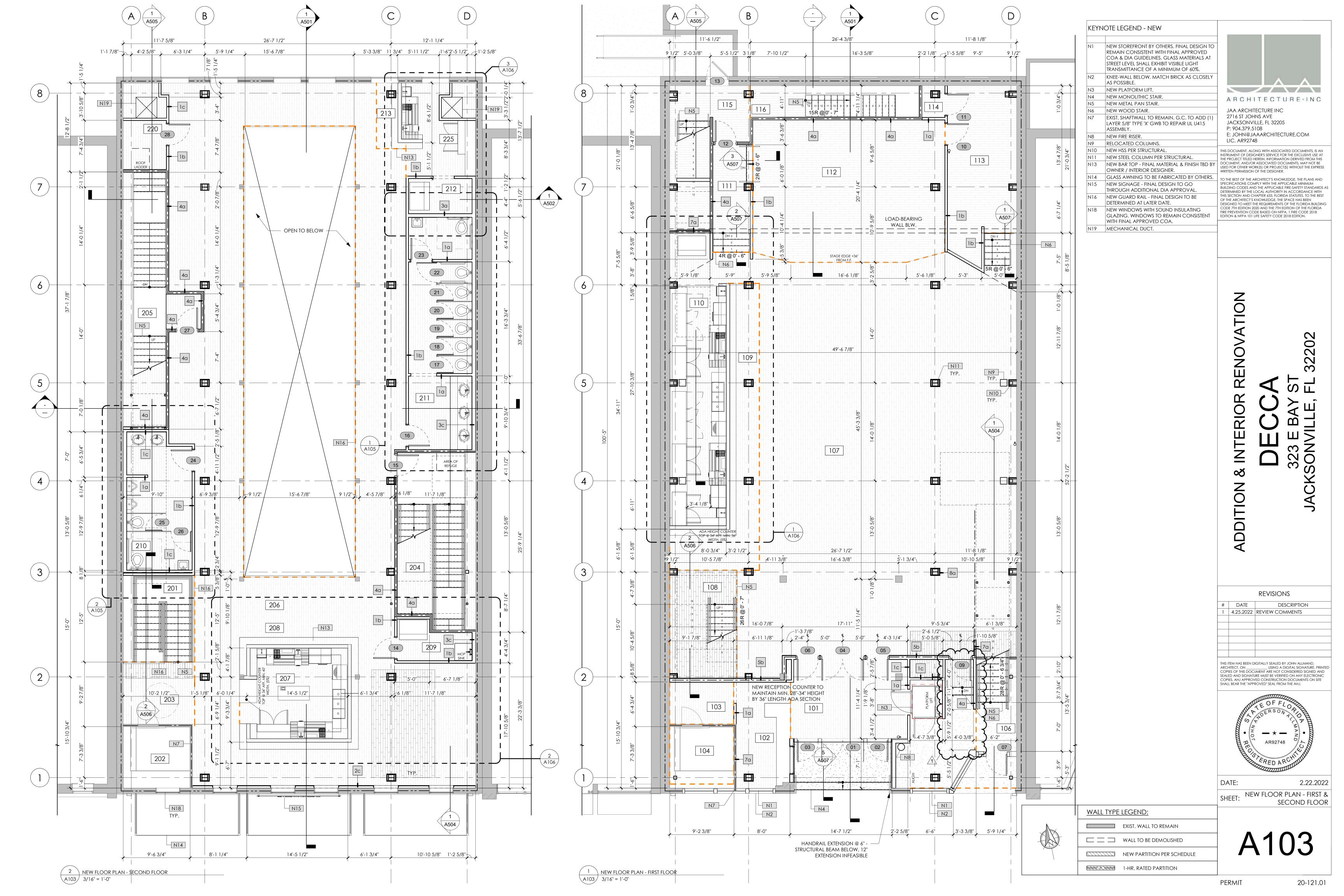
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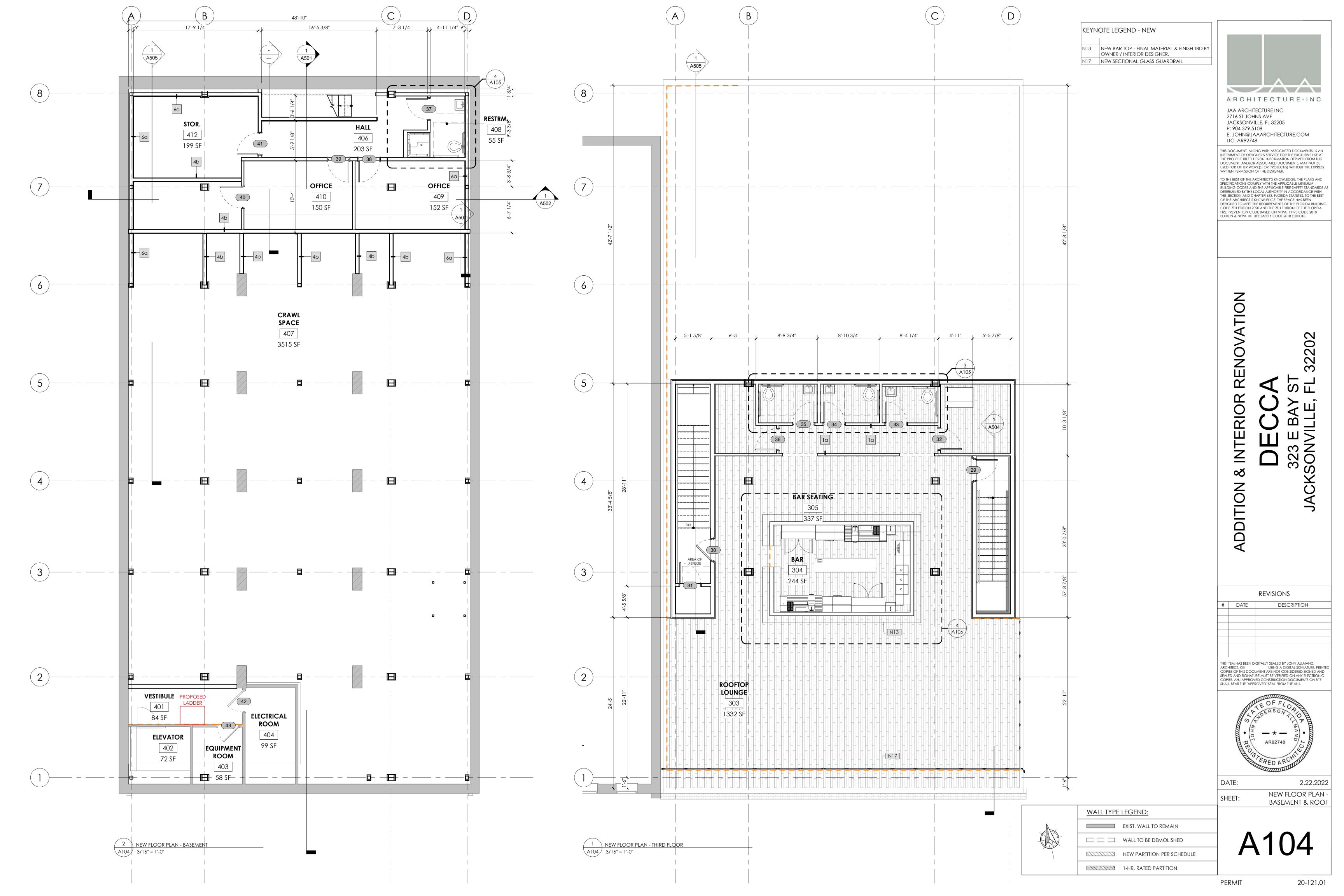
EXIST. WALL TO REMAIN

WALL TO BE DEMOLISHED

NEW PARTITION PER SCHEDULE

1-HR. RATED PARTITION







ARCHITECTURE = INC

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RENOVATION

**ADDITION &** 

32202

REVISIONS # DATE DESCRIPTION

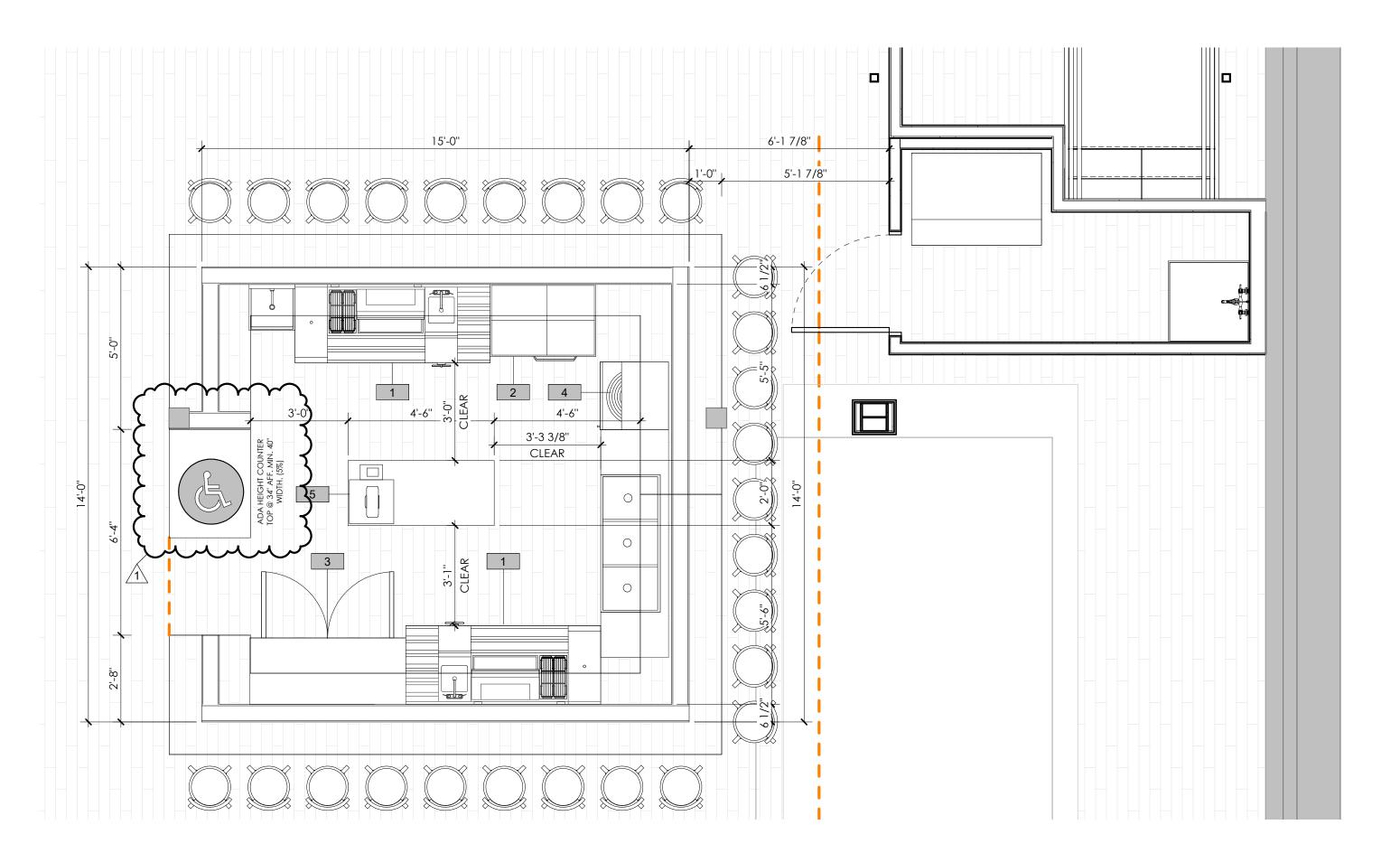
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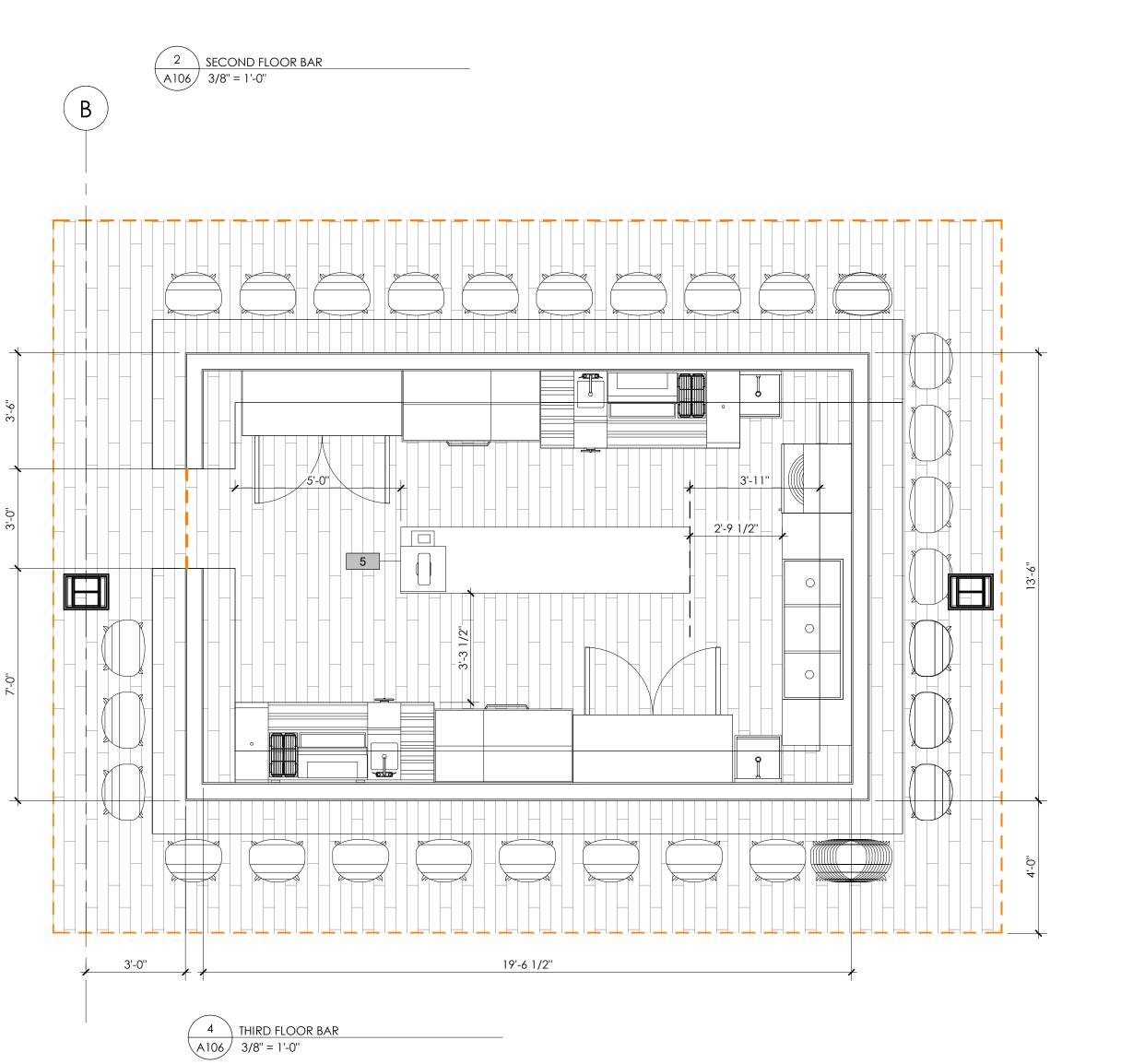


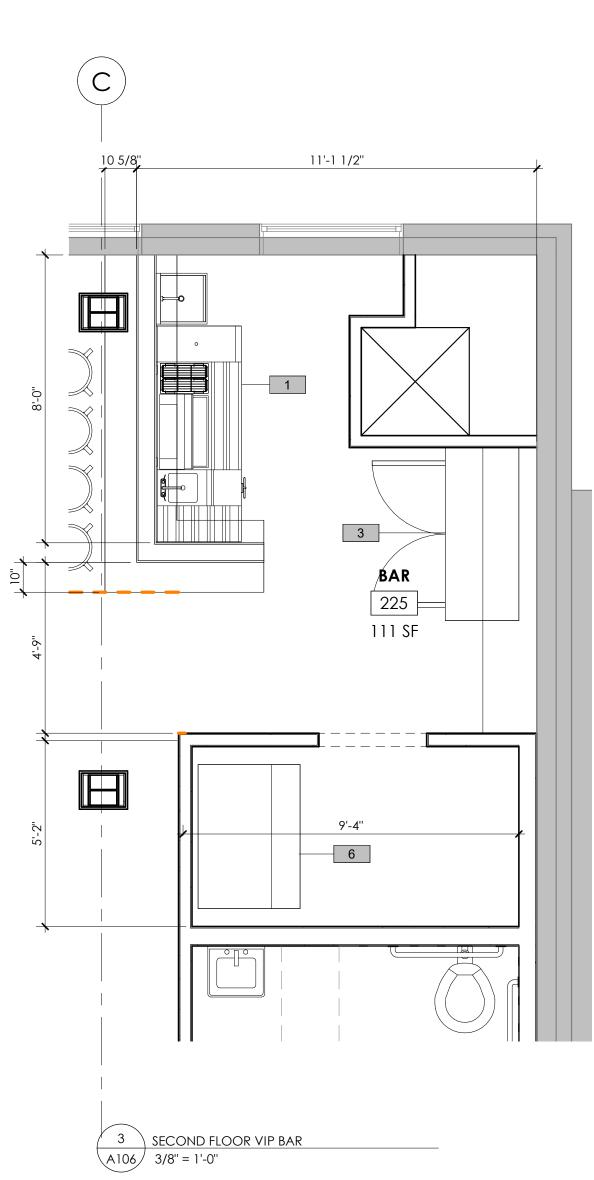
DATE: 2.22.2022 SHEET: ENLARGED RESTROOMS

A105

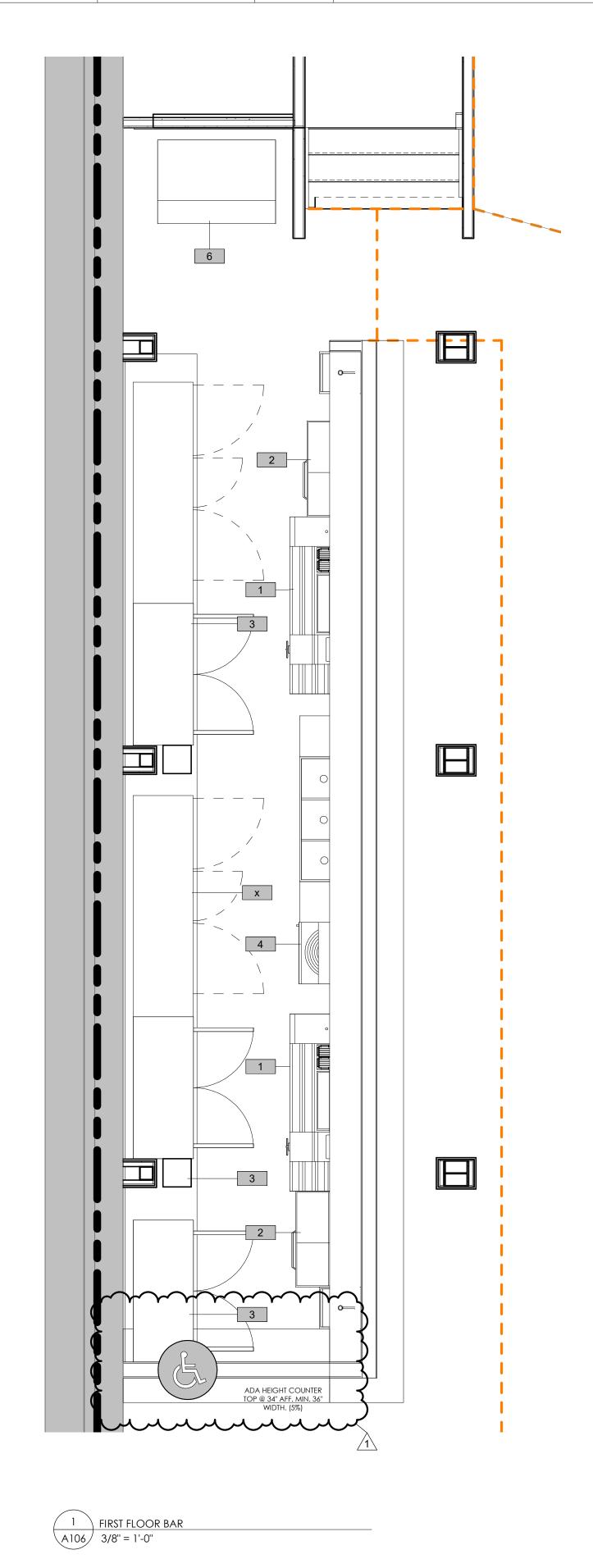
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		EQUIP	MENT SCHEDU	JLE	
Mark	Name	Manufacturer	Model	Description	Count
	OP-90	Garaventa Lift	Genesis Opal	Platform lift	1
1	Combination Cocktail Station	Eagle Group	CCS-72	Spec-Bar Combination Cocktail Stations	7
2	Cocktail Station w/ Refrigerated Drawers	Perlick	BBS36C	Cocktail Station Self-Contained Back Bar 2-Drawer Refrigerator	5
3	EBB59G-SD-SS	EVEREST	EBB59G-SD -SS	BACK BAR COOLERS	7
4	Underbar Glass Washer	Noble Warewashing	Noble CG	CG Glasswasher	3
5	Point of Sale System	TBD	TBD	Point of Sale / Cash Register	2
6	Ice Maker & Bin	Manitowoc Ice	IDT1500N-2 61 /D-970	Ice Maker w/ Bin	4





ARCHITECTURE-INC

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32202

RENOVATION

ADDITION REVISIONS DESCRIPTION # DATE 1 4.25.2022 REVIEW COMMENTS

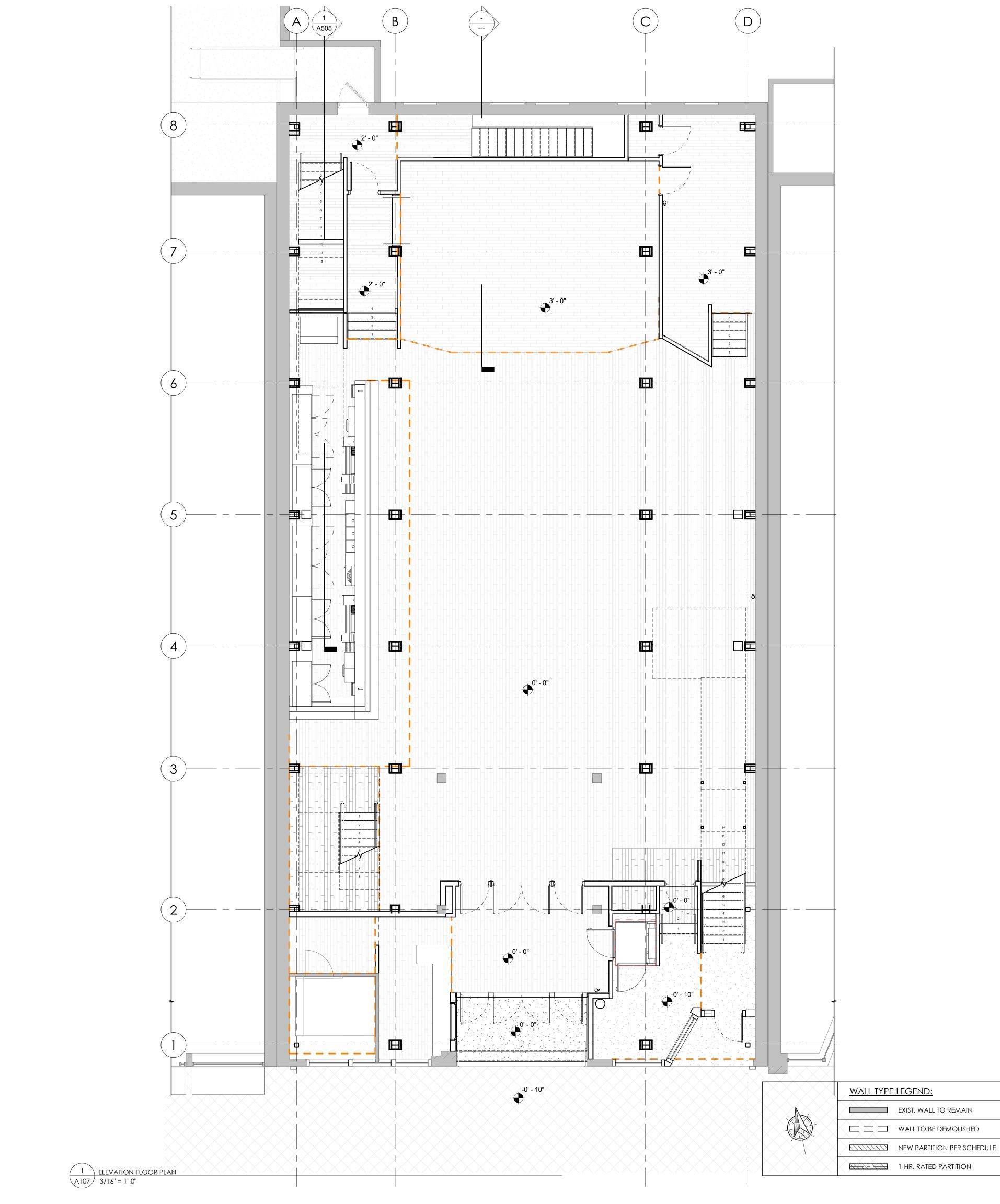
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DATE: 2.22.2022 SHEET: EQUIPMENT PLAN

A106

PERMIT





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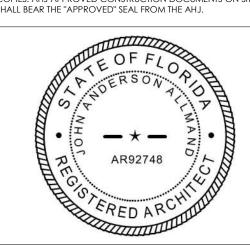
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DATE: 2.22.2022 ELEVATION PLAN

SHEET:

PERMIT

		LU	MINAIRE SCHEDULE	
Иark	Name	Manufacturer	Model	Comments
Α	LED Panel	Cooper Lighting	22FPSL2SCT3-3500K- MID OUTPUT	
В	General LED Panel	Cooper Lighting	24FPSL2SCT3-3500K- MID OUTPUT	
С	6 inch Surface Mount	Cooper Lighting	LSSQR6B	
D1	6" Recessed Lighting	Cooper Lighting	RL56129S1EWHR/H750ICAT	
D2	8" Recessed Lighting	Cooper Lighting	HC8	
E1	Direct Recessed and Regressed Direct Recessed	Cooper Lighting	Define 3, Define 4 and Define 5 LED	
E2	Direct Recessed and Regressed Direct Recessed	Cooper Lighting	Define 3, Define 4 and Define 5 LED	
F	Cylinder Nano Pendant	Lumenpulse	LACYN	
G	Low Profile Track Fixture	Cooper Lighting	L807HO LED	
Н	Stage Lighting			Stage lighting per vendor

### GENERAL RCP NOTES

- 1. REMODELING AND/OR ALTERATIONS OF AN EXISTING BUILDING REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, SOME WHICH MAY NOT BE VERIFIABLE WITH OUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING. THE ARCHITECT AND THE ARCHITECT'S CONSULTANTS ARE NOT RESPONSIBLE FOR CONDITIONS DISCOVERED DURING CONSTRUCTION THAT DIFFER FROM THOSE INDICATED. THE CONTRACTOR, UPON MAKING SUCH A DISCOVERY, SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND OBTAIN A CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- DURING THE DEMOLITION PHASE AND SUBSEQUENT NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE EMERGENCY EGRESS FROM THE BUILDING AT ALL TIMES. CONTRACTOR MUST IMPLEMENT INTERIM LIFE SAFETY MEASURES, PROVIDE REVISED EGRESS MAPS (IF REQUIRED), TRAIN EMPLOYEES AND/OR SUB-CONTRACTORS ON PROCEDURES THAT ARE AFFECTED, AND MAINTAIN FIRE WATCH WHEN REQUIRED DUE TO SYSTEM OUTAGE.
- PATCH AND REPLACE DAMAGED CEILING/CEILING GRID AND TILES AS NECESSARY.
- ITEMS TO BE RELOCATED OR DEMOLISHED ARE ILLUSTRATED AS DASHED LINES AND ARE NOTED. SEE DEMOLITION NOTES.
- WHERE DOORS, WALLS, AND OTHER STRUCTURES ARE REMOVED, PATCH ADJACENT WALL AND FLOOR SURFACES TO MATCH THE EXISTING MATERIAL.
- NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED.
- ITEMS INDICATED TO BE DEMOLISHED SHALL BE DISPOSED OF

### GENERAL RCP NOTES

- 1. REFER TO THE ARCHITECTURAL PLAN(S) ON 'A1--' DRAWINGS
- GC TO NOTIFY JAA OF CONFLICTS WITH SPECIFIED CEILING HEIGHT & EXISTING CONDITIONS PRIOR TO INSTALLATION OF
- CONTRACTOR TO REVIEW ENGINEERING DRAWINGS TO ENSURE ALL ITEMS INDICATED DO NOT CONFLICT W/ INFO SHOWN ON 'A2' DRAWINGS. IF CONFLICT EXISTS, CONTRACTOR TO NOTIFY JAA IMMEDIATELY & ASSUME 'A2--' DRAWINGS SUPERSEDES ENGINEERING DRAWINGS. ANY MECHANICAL, ELECTRICAL, AND PLUMBING
- ARCHITECTS WORK. MEHCANICAL, ELECTRICAL, PLUMBING, SUBMIT DRAWINGS AND SPECIFICATIONS FOR PERMIT AND COORDINATE WITH JAA ARCHITECTURE AS REQUIRED. CONTRACTOR TO PROVIDE ENERGY CALCULATIONS IF REQUIRED FOR PERMITTING.
- PROTECTION SYSTEMS SHALL BE MODIFIED IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. ALL SYSTEMS SHALL COMPLY AND BE REVIEWED BY THE
- THE LATEST DESIGN CRITERIA ISSUED BY OWNER. CONTRACTOR TO HOLD DUCT AND MECHANICAL EQUIPMENT
- PATCH AND REPLACE DAMAGED ACOUSTICAL CEILING TILES AND CEILING GRID. ACOUSTICAL CEILING TILES TO BE SIMILAR
- UNO, ALL CEILING GRID & TILE TO BE CENTERED WITHIN ROOM AS SHOWN ON PLAN. GC TO CONFIRM GRID STARTING POINTS WITH D2 FOR ALL ROOMS OR AREAS THAT ARE NOT CENTERED,
- NECESSARY FOR ACCESS AND TO BE 'MUD-IN' TYPE WITH DRYWALL FLANGE. PAINT TO MATCH ADJACENT CEILING IN FIELD WITH D2 PRIOR TO INSTALLATION.
- CEILINGS. IN ALL OTHER ACOUSTICAL CEILINGS, ALL SUPPLY & RETURN GRILLES TO BE SQUARE, TYP.
- AT ALL CONFERENCE ROOMS PER PLAN.
- 13. PROVIDE ALARM STROBES AND HORN STROBES AS REQUIRED BY
- 14. PROVIDE EMERGENCY LIGHTING OR EMERGENCY BALLAST IN LIGHT FIXTURES AS REQUIRED TO MEET CODE REQUIREMENTS FOR EMERGECNY LIGHTING.
- HEAD LOCATION, ADD NEW LINES & HEADS AS REQUIRED & BY ALL APPLICABLE CODES HAVING JURISDICTION. PROVIDE BRANCH & DISTRIBUTION SPRINKLER PIPING FROM BASE BUILDING MAINS AS REQUIRED. ALL SPRINKLER HEADS TO BE THE SAME & TO MATCH BUILDING STANDARD HEADS. ALL SPRINKLER HEADS IN SUSPENDED A.C.T. TO BE CENTERED IN CEILING PANEL WHERE POSSIBLE. GC TO COORDINATE ALL SPRINKLER HEAD LOCATIONS WITH LIGHT FIXTURES ON THE REFLECTED CEILING PLAN & WITH ALL OTHER ITEMS IN THE CEILING INCLUDING DIFFUSERS.
- 1. IF WORK EXCEEDS 50 HEADS OR \$5,000.00 FIRE IS REQUIRED.
- GC TO TURN SPRINKLER HEADS UP AT ALL EXPOSED CEILING AREAS, TYP. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION WHEN
- APPLICABLE. 16. NEW GWB SOFFITS & HEADERS @ 8'-0" AFF, UNO. THICKNESS OF
- WALLS ADJACENT TO SOFFIT/HEADER, TYP, UNO. REFER TO ARCHITECTURAL PLANS FOR PARTITION TYPE, TYP.



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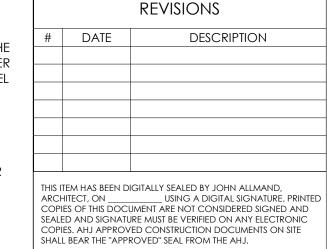
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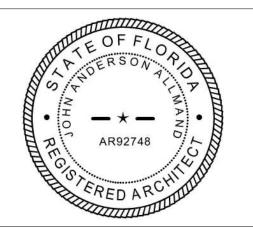
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- FOR ALL PARTITION TYPES THAT PENETRATE THE CEILING INCLUDING THOSE THAT ARE FIRE-RATED.
- CEILING COMPONENTS.
- INFORMATION INDICATED ON THE ARCHITECTURAL PLANS IS SHOWN SOLELY FOR THE PURPOSE OF COORDINATION OF THE AND FIRE PROTECTION IS BY OTHERS. THE CONTRACTOR SHALL
- ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE
- BUILDING OWNER. DESIGN SHALL BE IN ACCORDANCE WITH
- TIGHT TO STRUCTURE.
- TO EXISTING.
- GC TO INSTALL ACCESS PANELS IN GWB CEILINGS FOR VAV BOX, VALVES, ETC. ALL ACCESS PANELS TO BE MINIMUM SIZE SURFACE, TYP. ACCESS PANELS TO BE CENTERED WITH REGARD TO LIGHT FIXTURES WHERE POSSIBLE. COORDINATE LOCATION
- 11. GC TO PROVIDE LINEAR DIFFUSERS & RETURNS IN ALL GWB
- 12. ALL DUCTWORK TO BE INSULATED ON THE OUTSIDE FOR SOUND
- FLOOR IS FULLY SPRINKLERED. MODIFY EXISTING SPRINKLER
  - PROTECTION DESIGN CRITERIA BY LICENSED ENGINEER
- THE HEADER TO MATCH THE PARTITION THICKNESS 17. SOFFIT/HEADER CONSTRUCTION TO MATCH CONSTRUCTION OF



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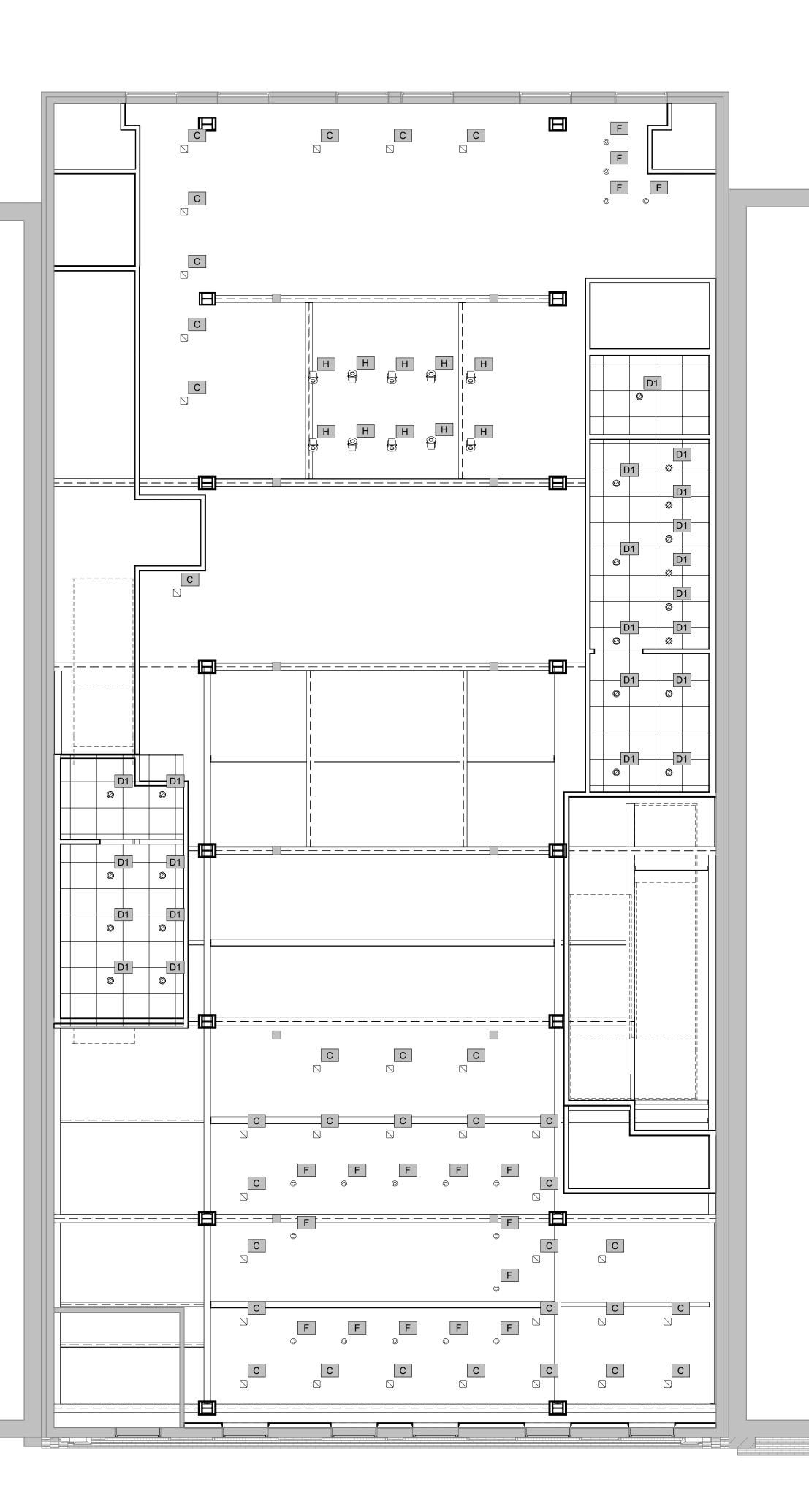


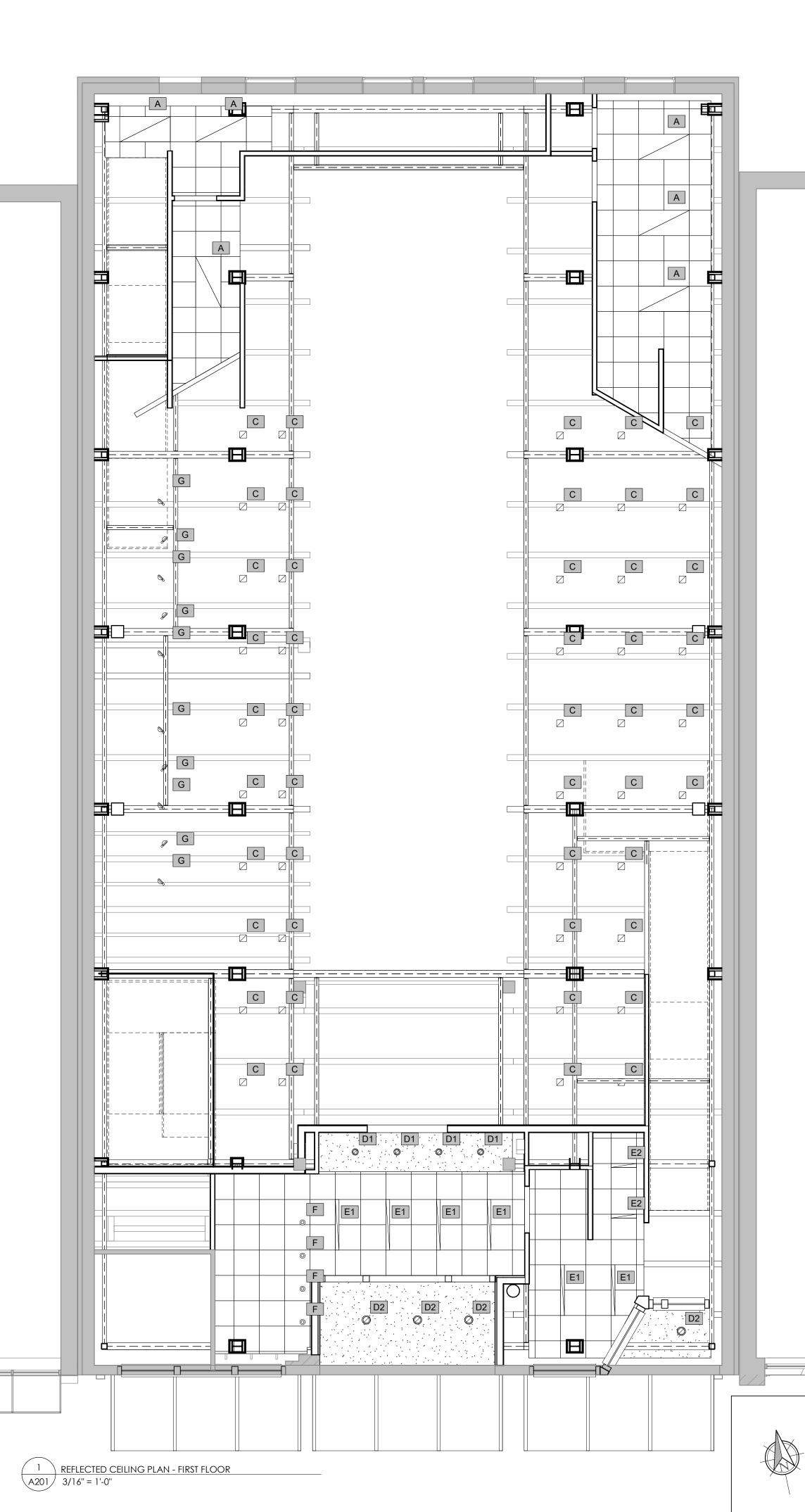
2.22.2022 DATE:

SHEET: RCP NOTES & SCHEDULES

20-121.01

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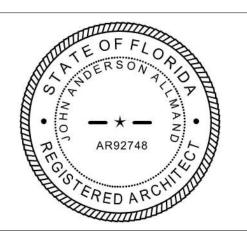
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## RENOVATION ADDITION

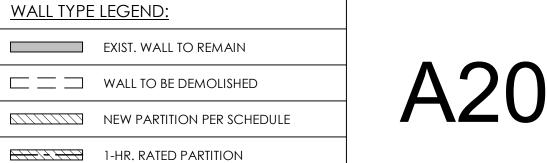
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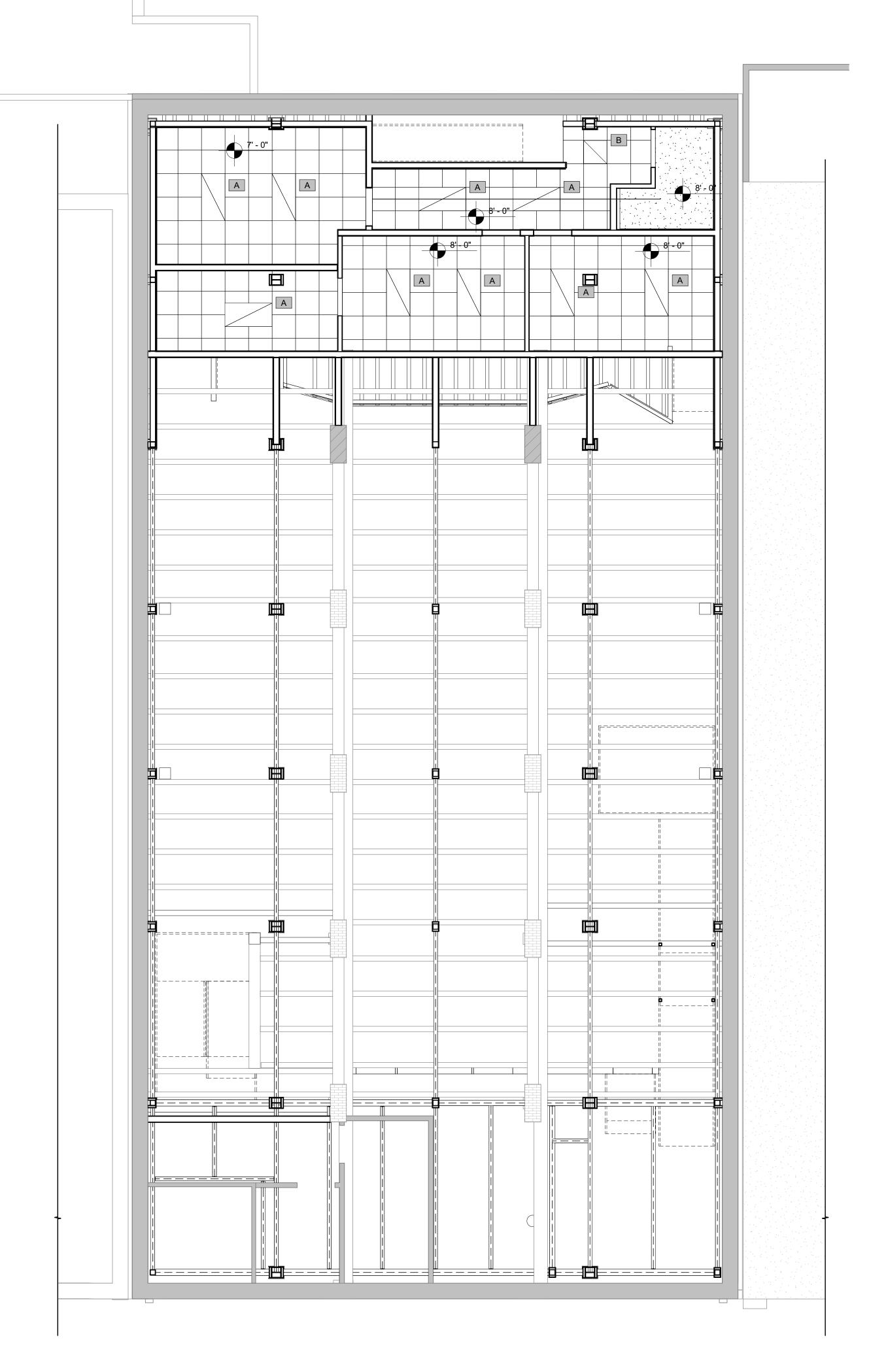
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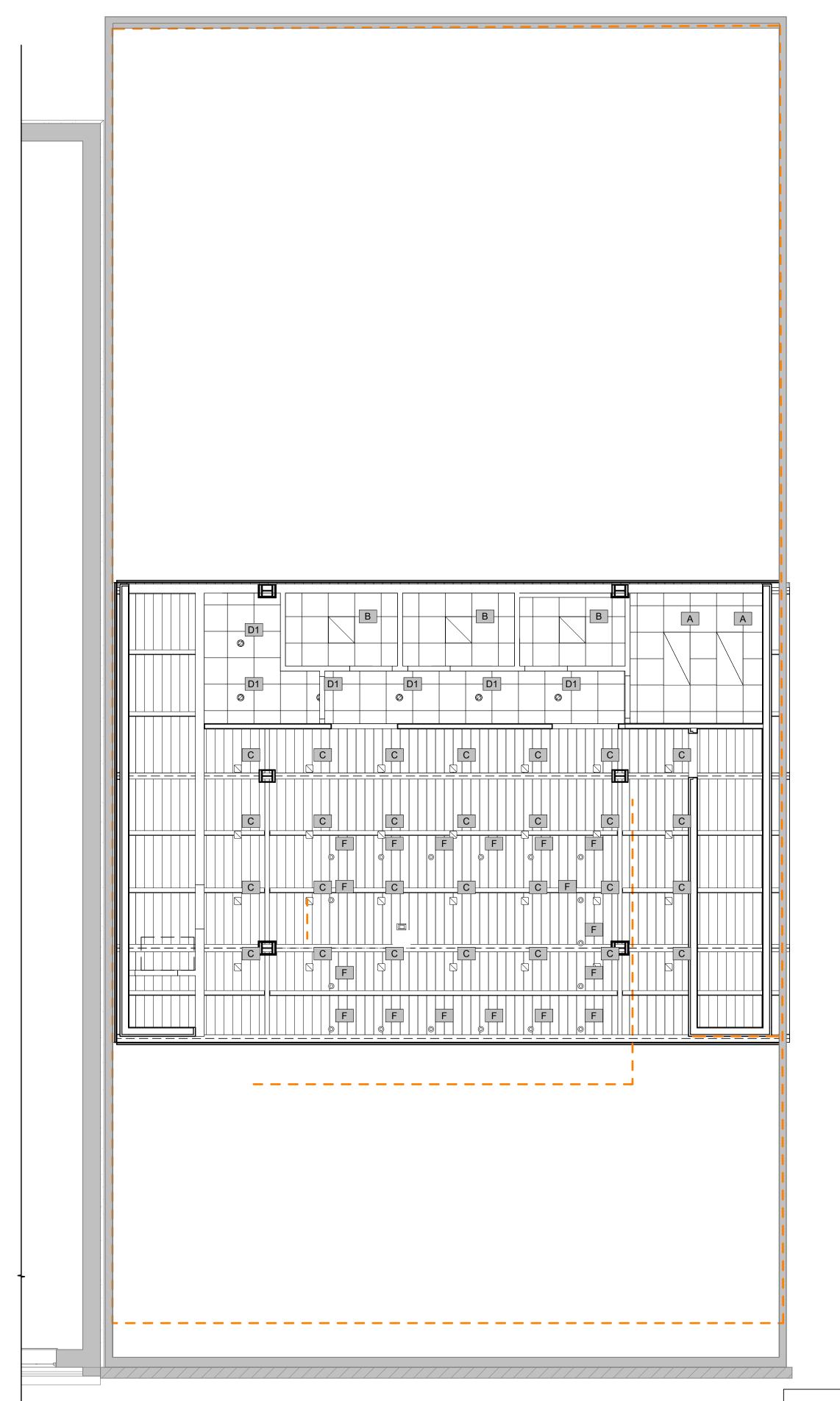
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DATE: 2.22.2022 SHEET: REFLECTED CEILING PLAN







2 REFLECTED CEILING PLAN - ROOF
A202 3/16" = 1'-0"



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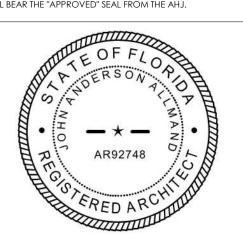
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## RENOVATION ADDITION

32202

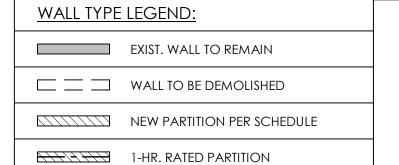
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#	DATE	DESCRIPTION

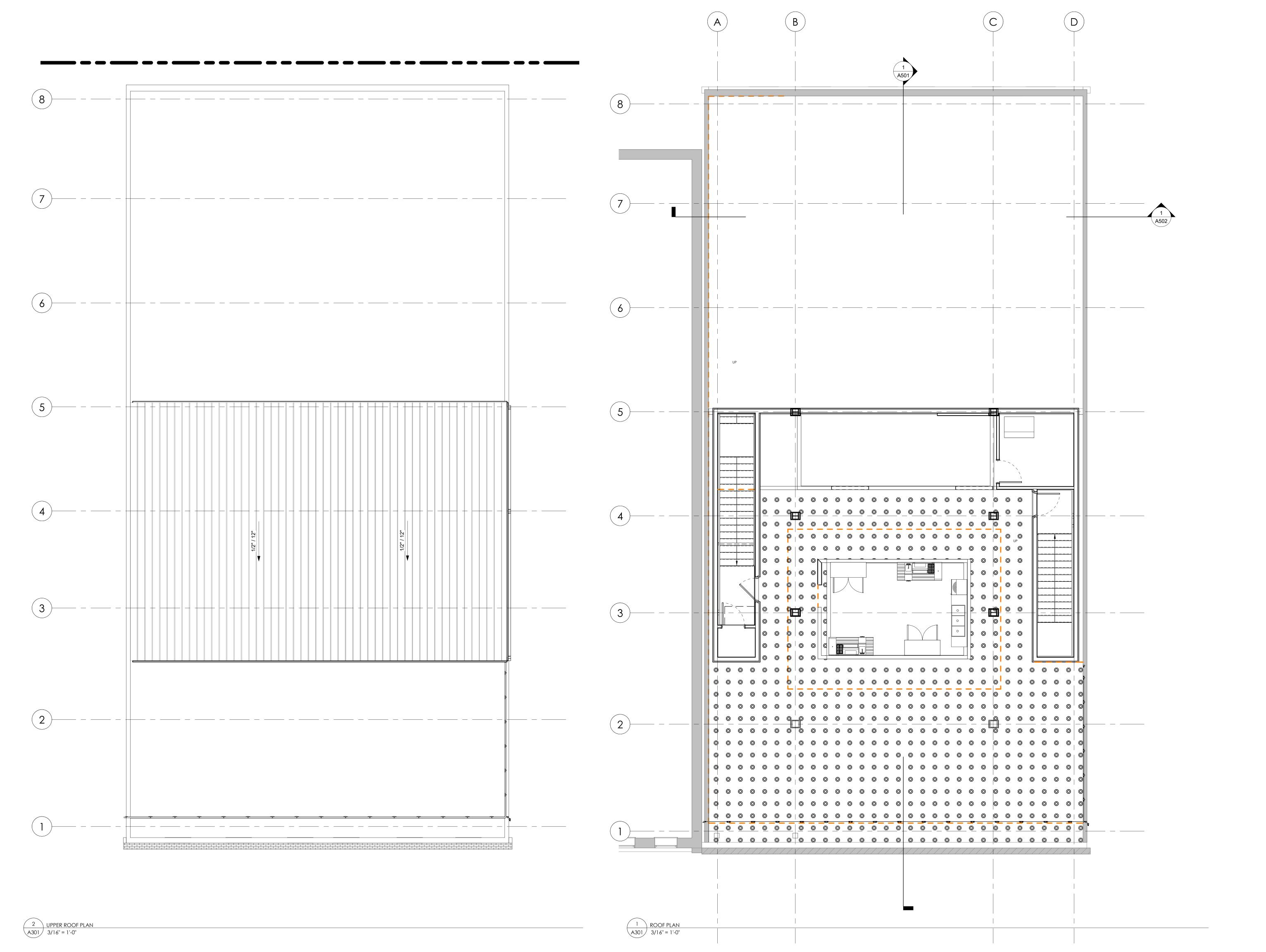
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SHEET: REFLECTED CEILING PLAN







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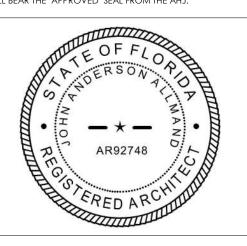
JACKSONVILLE, FL 32205 P: 904.379.5108 E: JOHN@JAAARCHITECTURE.COM LIC. AR92748

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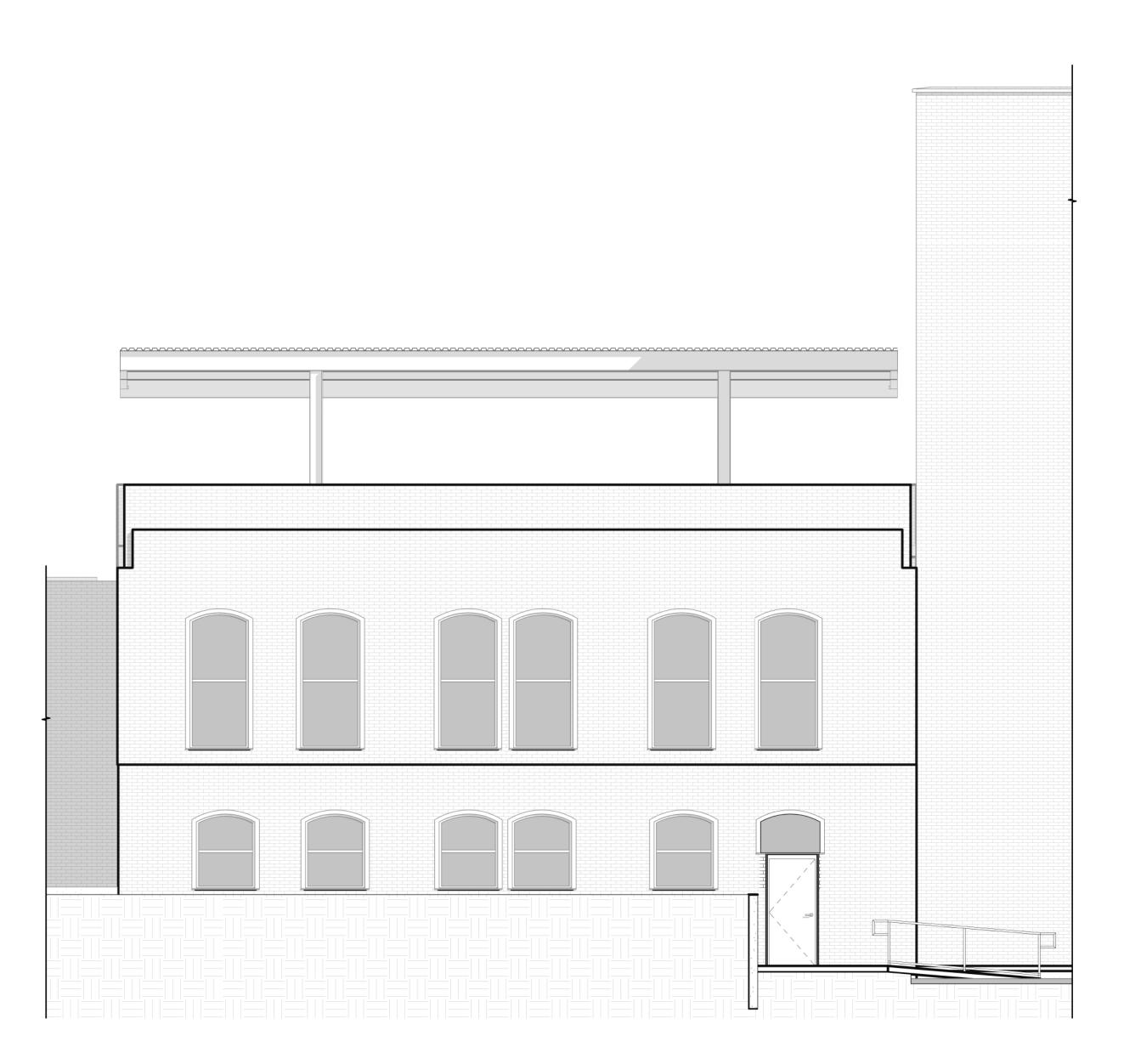
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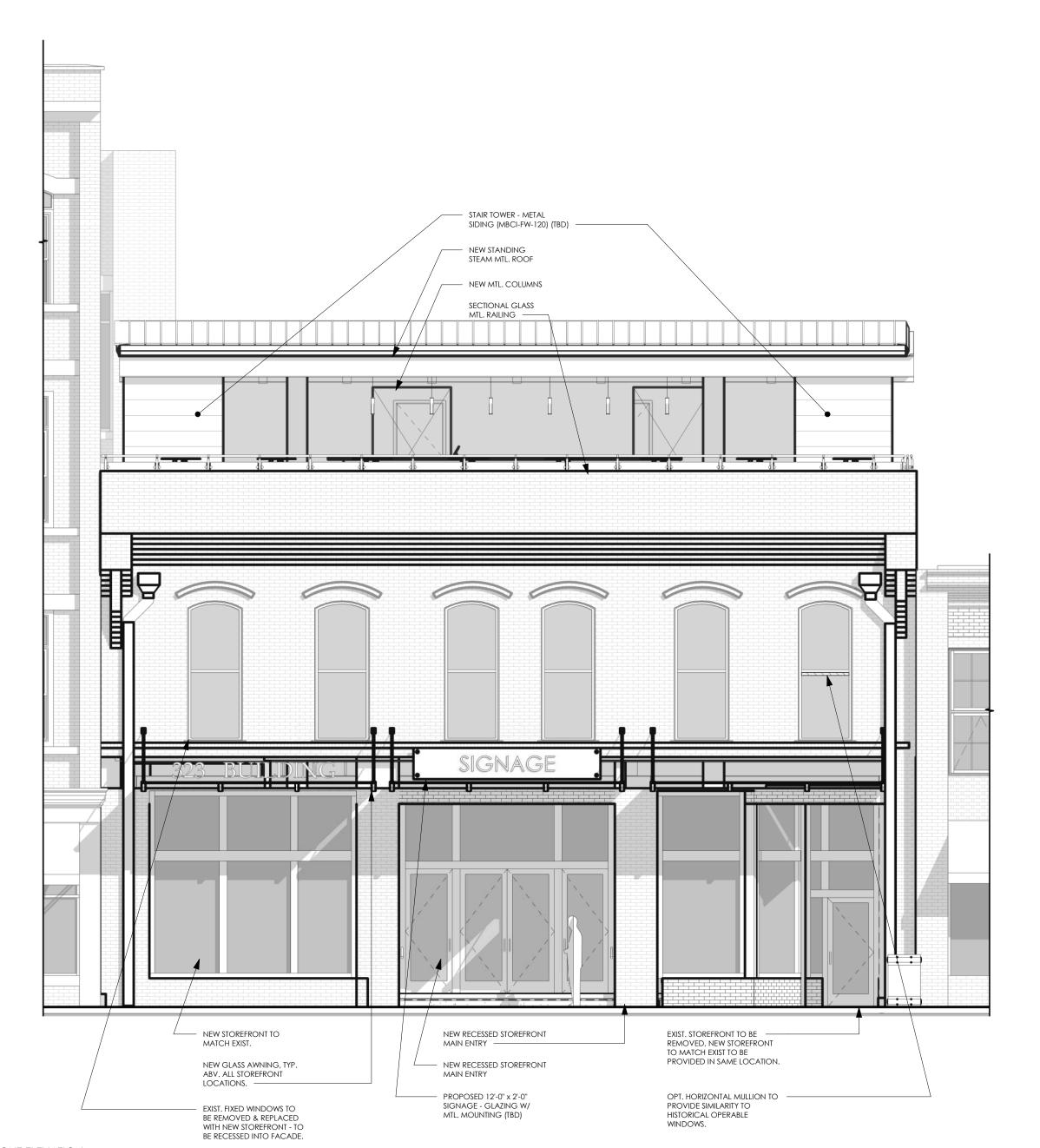
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E: JOHN@JAAARCHITECTURE.COM

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32202

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DATE	DESCRIPTION
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DATE: EXTERIOR ELEVATIONS

1 ELEVATION - REAR A401 3/16" = 1'-0"

2 FRONT ELEVATION A401 3/16" = 1'-0"

2.22.2022



PORCELIAN TILE PAVERS (OR SIM.)

IN PROJECT.

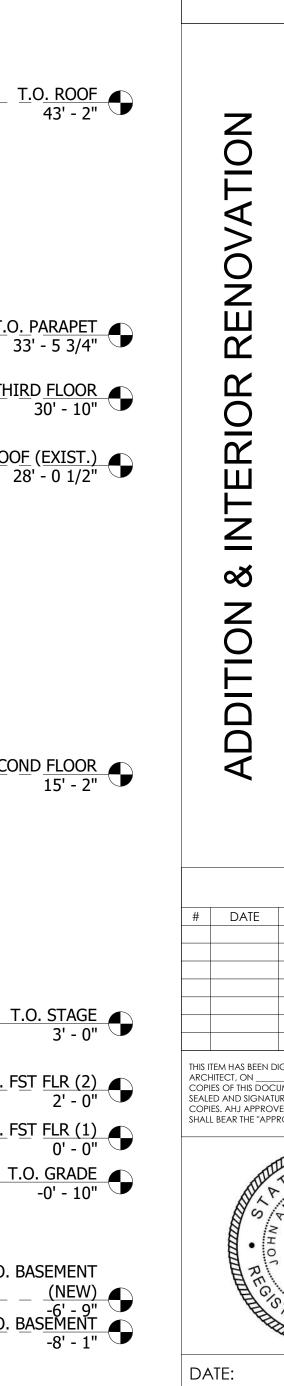
N42 SPRAY APPLIED FIRE-RESISTIVE MATERIALS PER

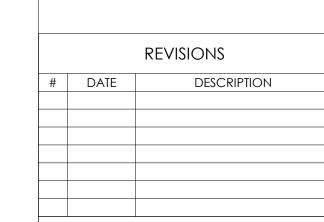


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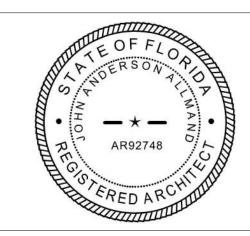
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> > 202





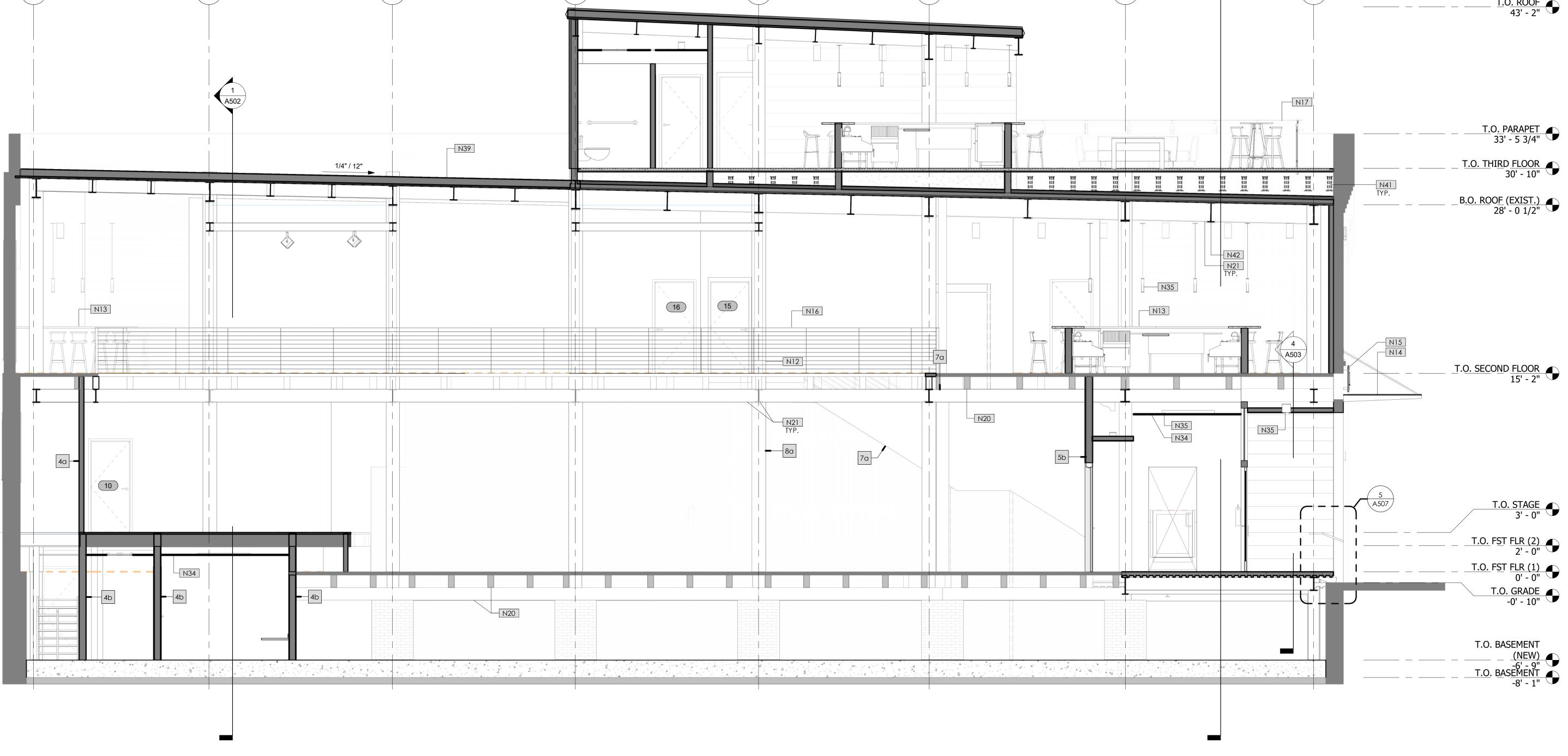
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2.22.2022 BUILDING SECTIONS

A501

PERMIT



1 BUILDING SECTION - N/S A501 1/4" = 1'-0"

### KEYNOTE LEGEND - NEW N5 NEW METAL PAN STAIR. N12 1 HR ASSEMBLY PER UL X528 (SHT A704). PROVIDE FUAX WOOD COLUMN WRAP. N16 NEW GUARD RAIL - FINAL DESIGN TO BE DETERMINED AT LATER DATE. N20 EXIST. WD BEAM TO REMAIN. N21 NEW STL BEAM - SEE STRUCTURAL N34 SUSPENDED ACOUSTICAL CEILING ARCHITECTURE-INC N35 LIGHTING PER PLAN N39 CONCRETE OVER MTL DECK W/ MODIFIED JAA ARCHITECTURE INC

BITUMINOUS ROOFING (OR SIM.)

IN PROJECT.

N42 | SPRAY APPLIED FIRE-RESISTIVE MATERIALS PER

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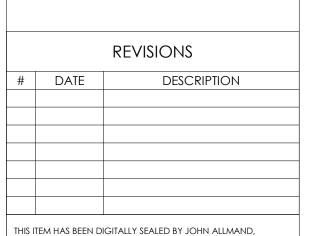
20,

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T.O. PARAPET 33' - 5 3/4"

T.O. THIRD FLOOR 30' - 10"



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DATE: 2.22.2022 BUILDING SECTION

A502

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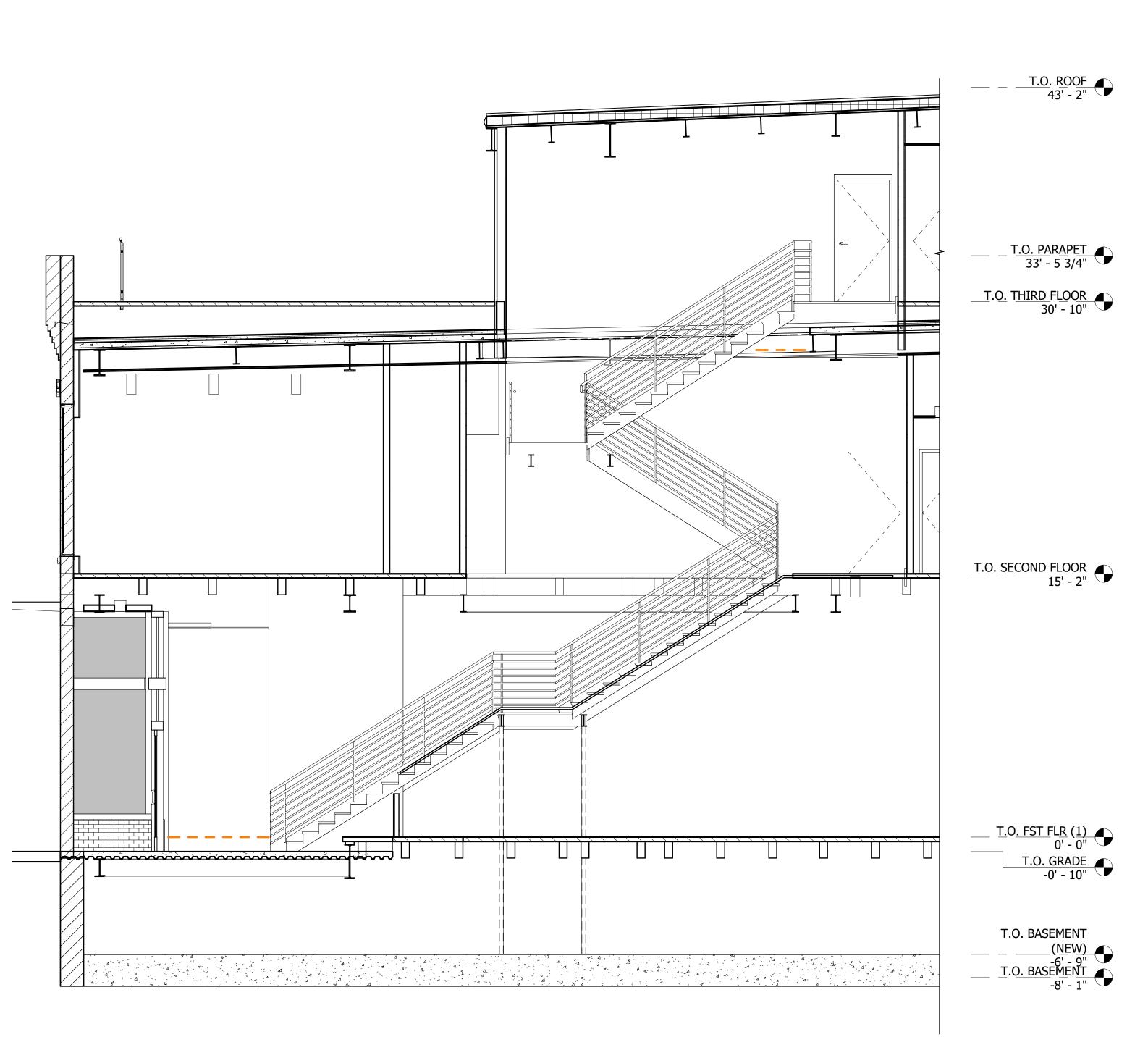
E: JOHN@JAAARCHITECTURE.COM

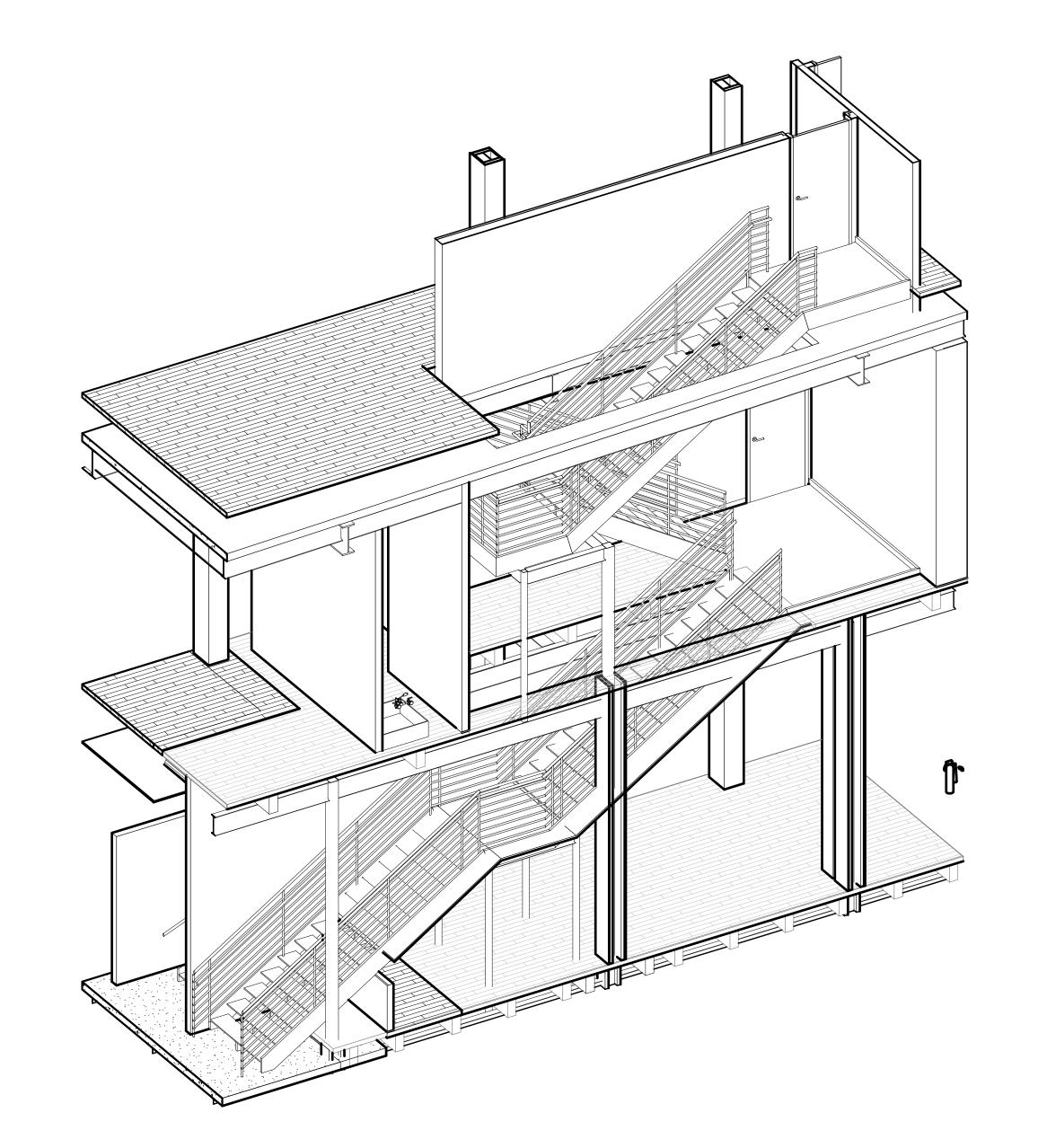
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32202





# ADDITION & INTERIOR RENOVATION

REVISIONS

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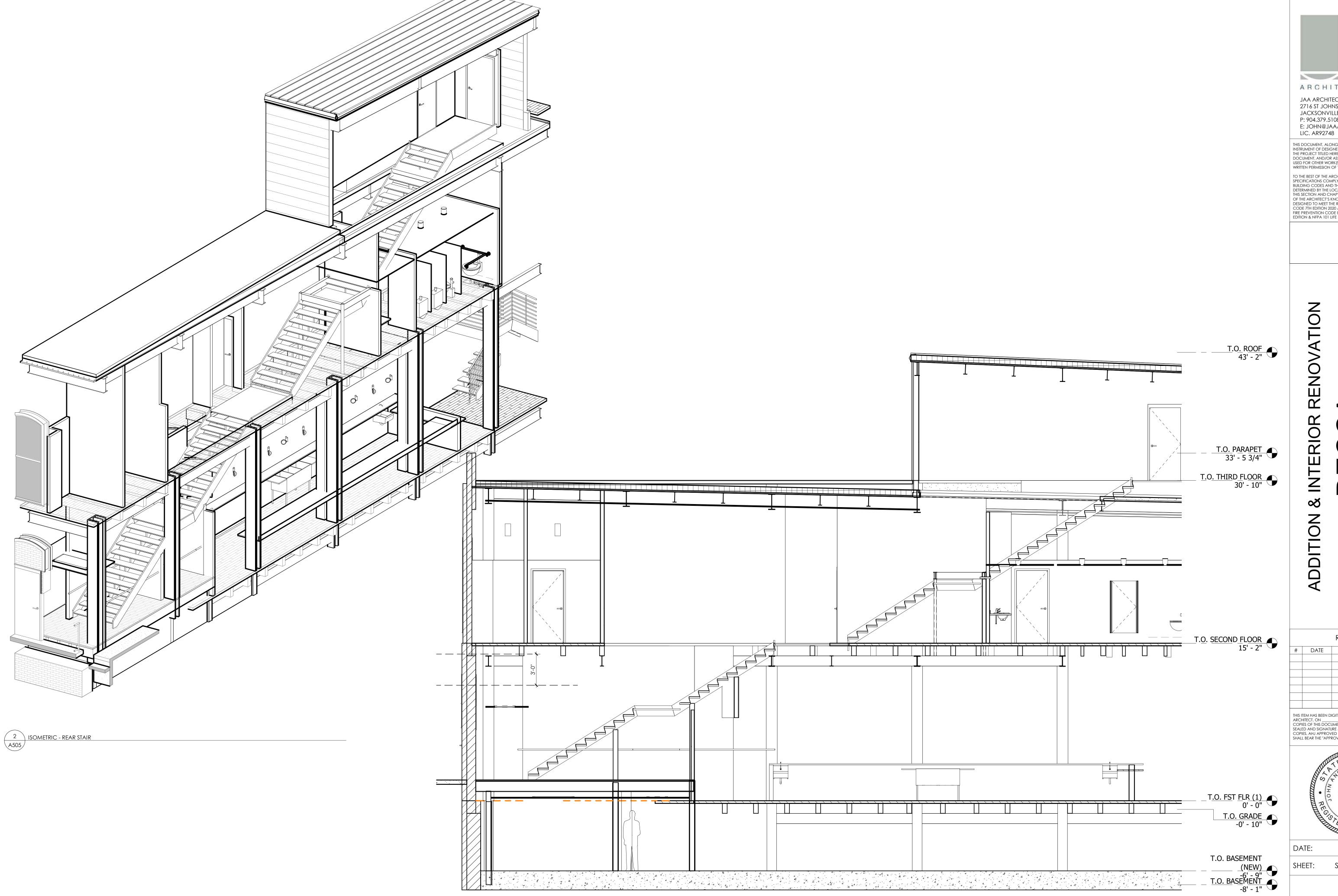


DATE:

SHEET: STAIR SECTION @ FRONT

A504

2.22.2022





ARCHITECTURE = INC

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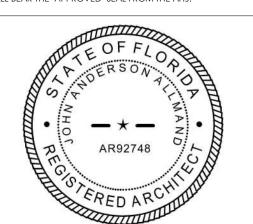
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# ADDITION &

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2.22.2022 SHEET: STAIR SECTION @ REAR

A505



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JACKSONVILLE, FL 32205
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E: JOHN@JAAARCHITECTURE.COM
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RENOVATION

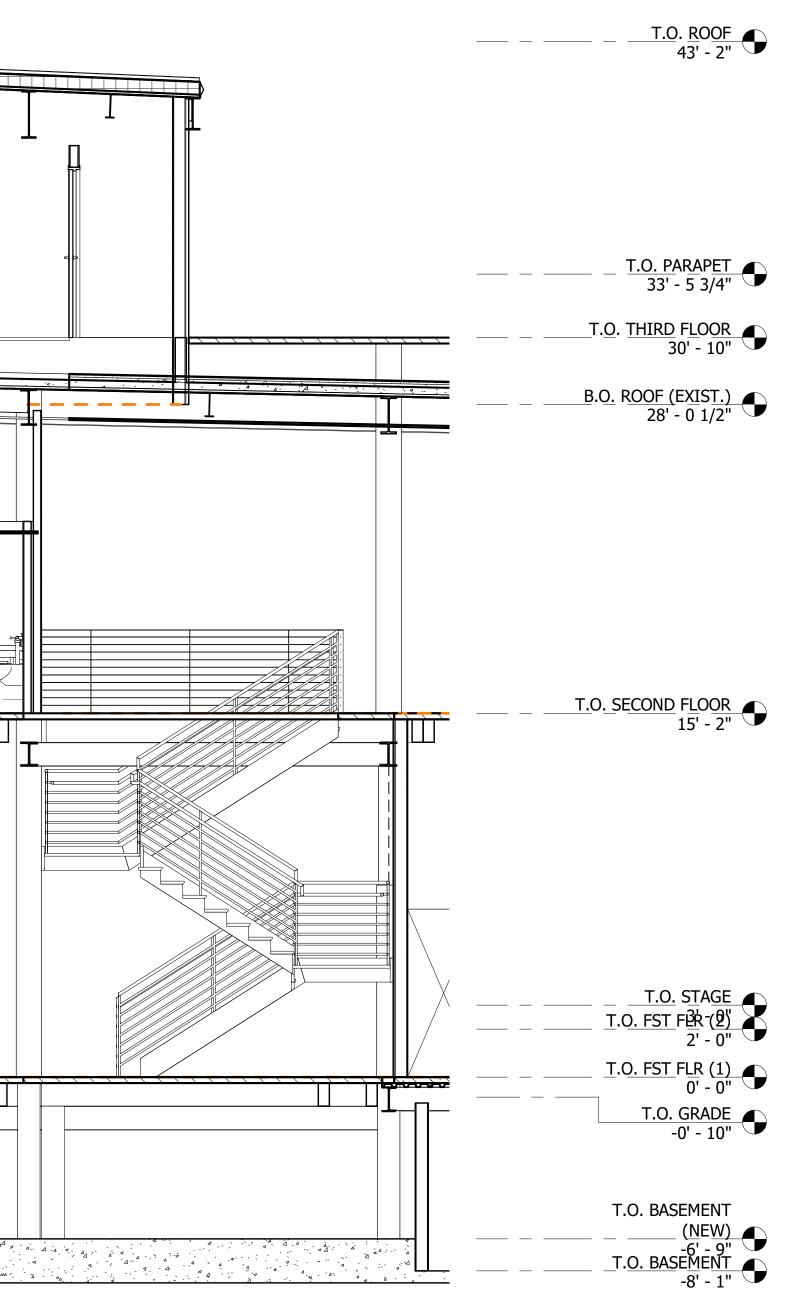
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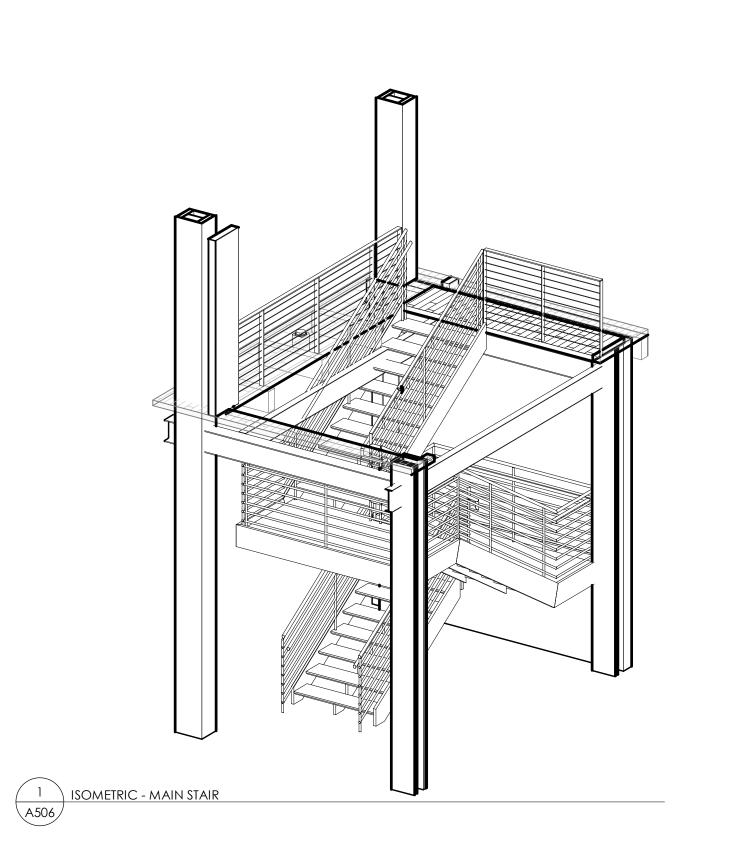
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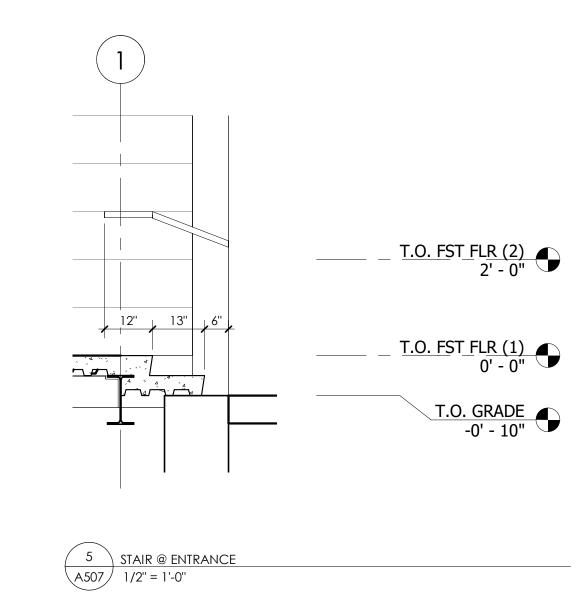


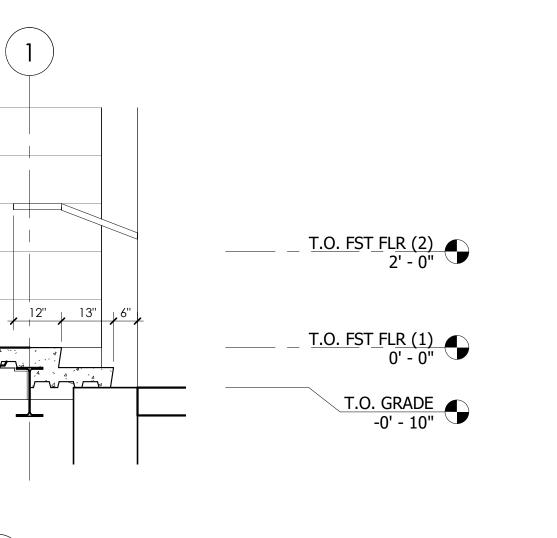
DATE: 2.22.2022

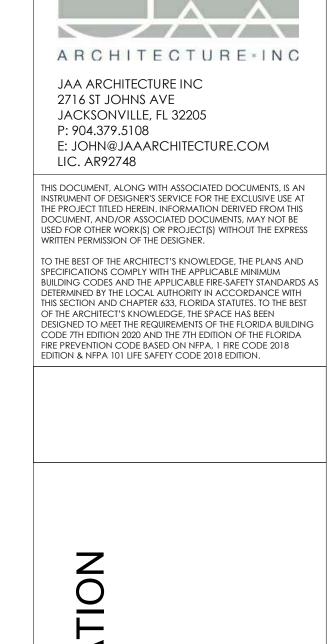
SHEET: STAIR SECTION @ MAIN FLOOR

A506

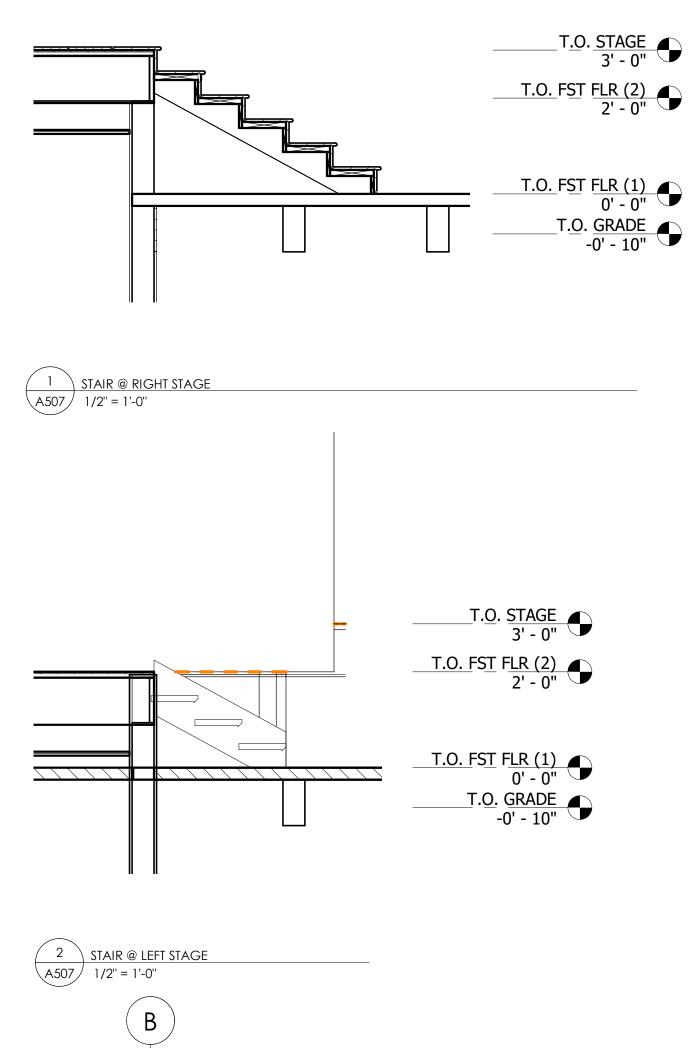
2 SECTION @ STAIRS (MAIN FLOOR) A506 1/4" = 1'-0"





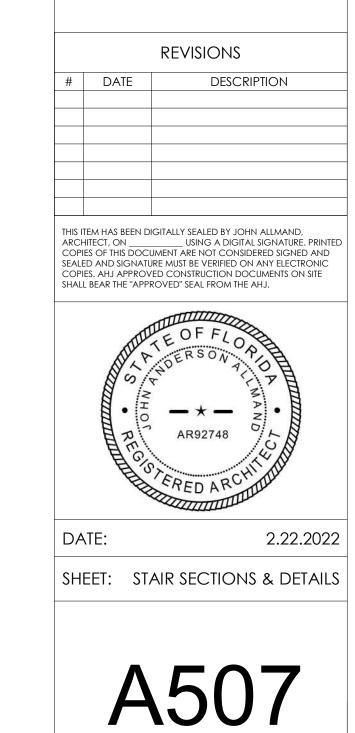


2202



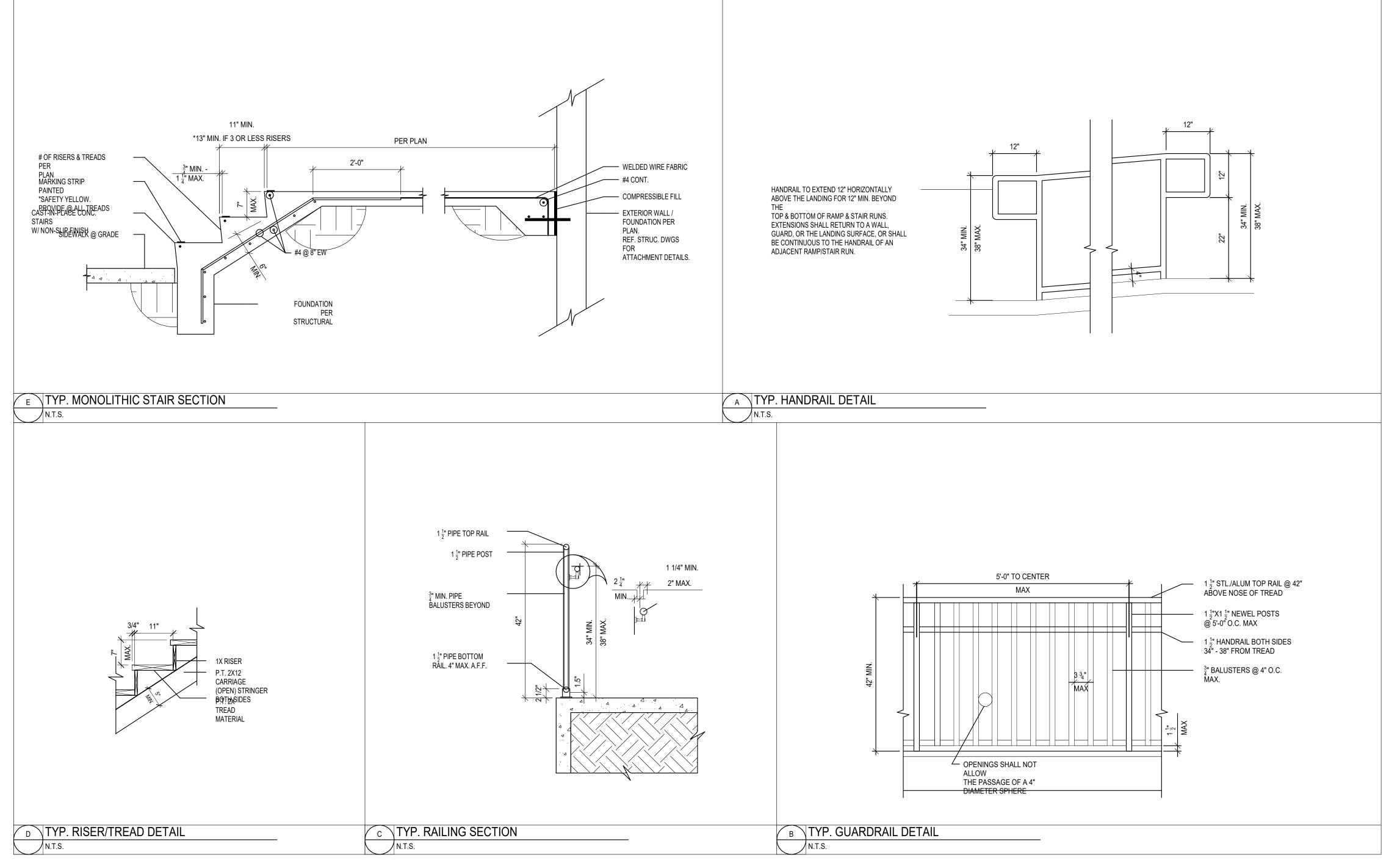
T.O. FST FLR (2) 2' - 0"

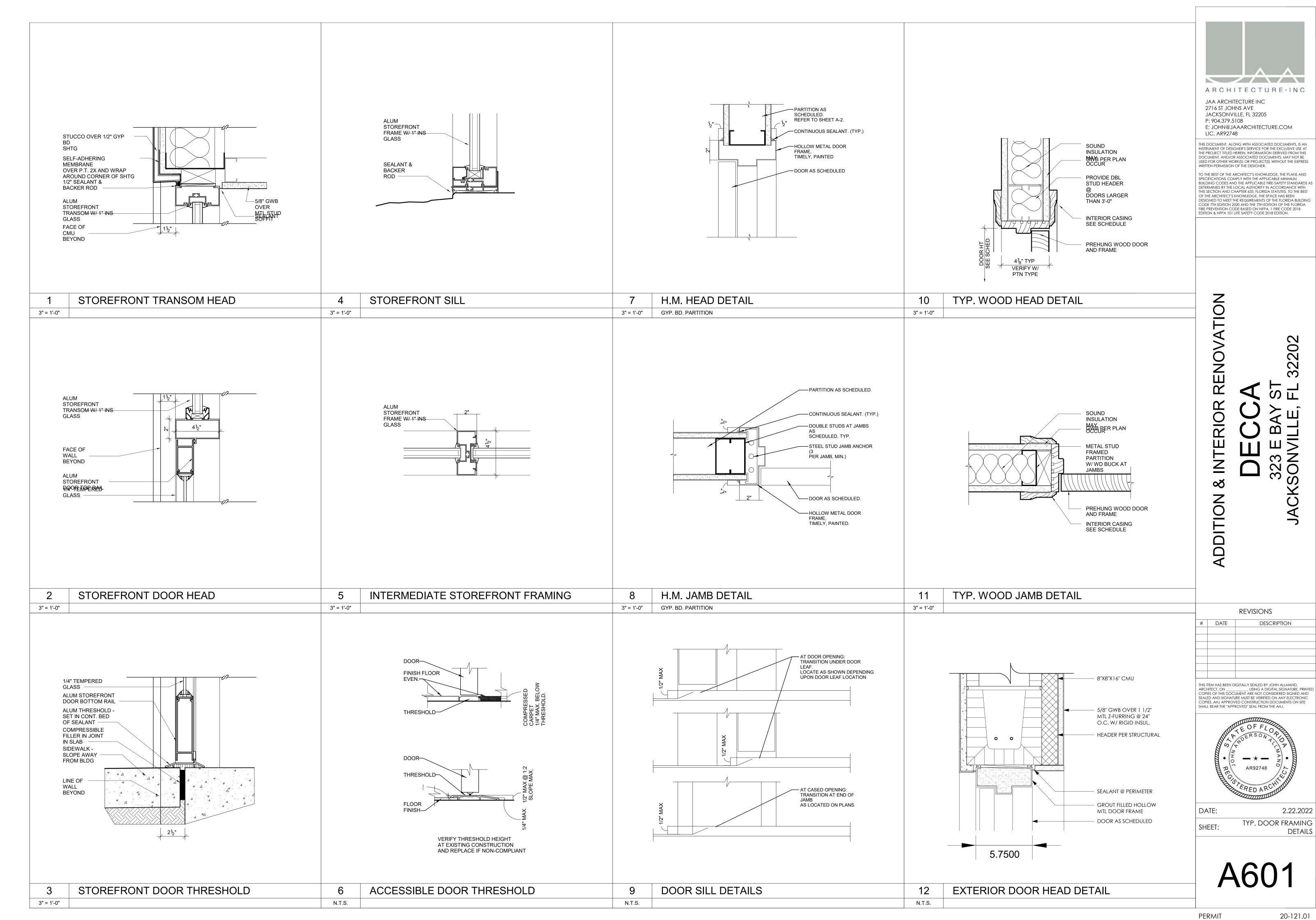
3 STAIR @ STAGE A507 1/2" = 1'-0"

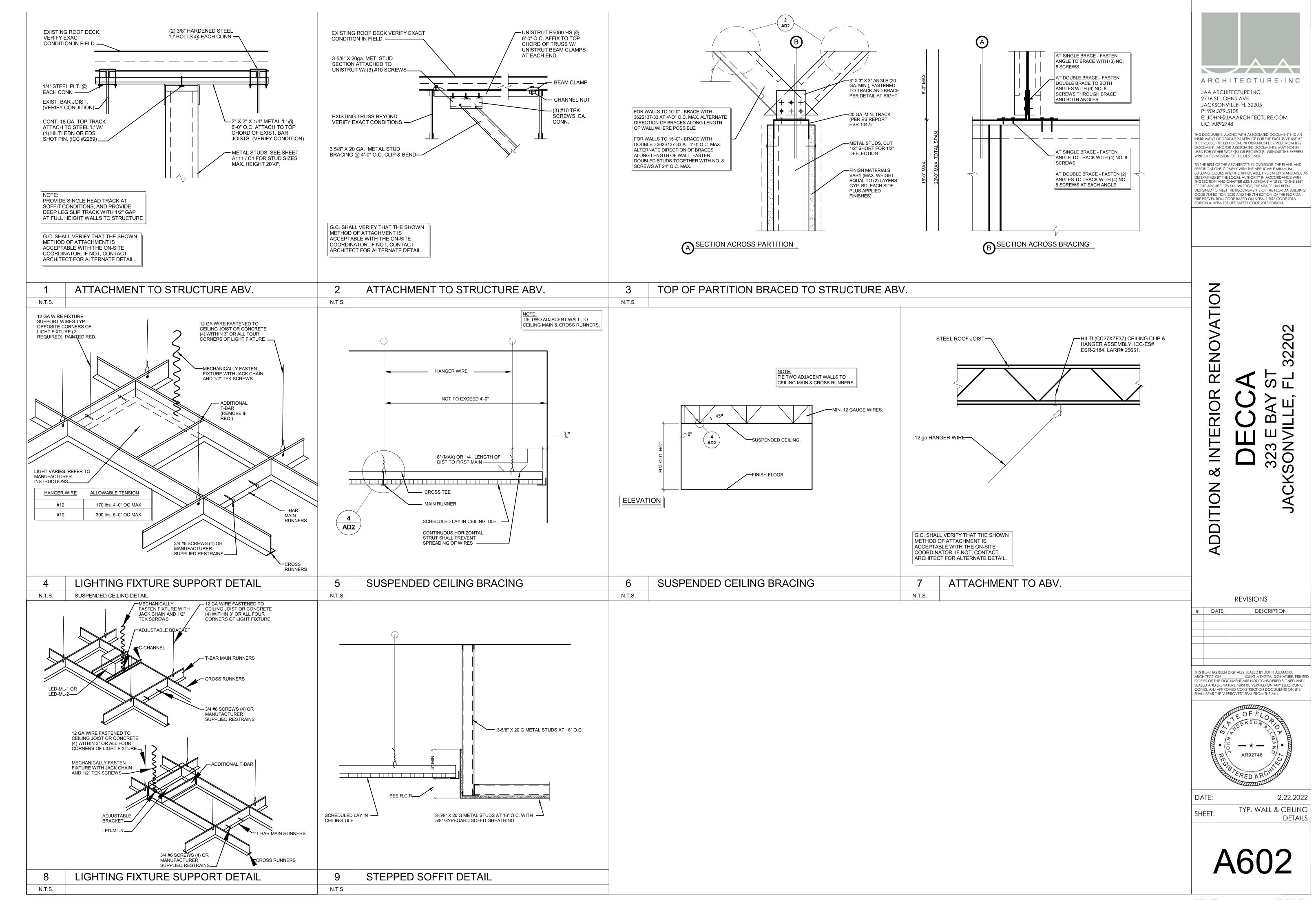


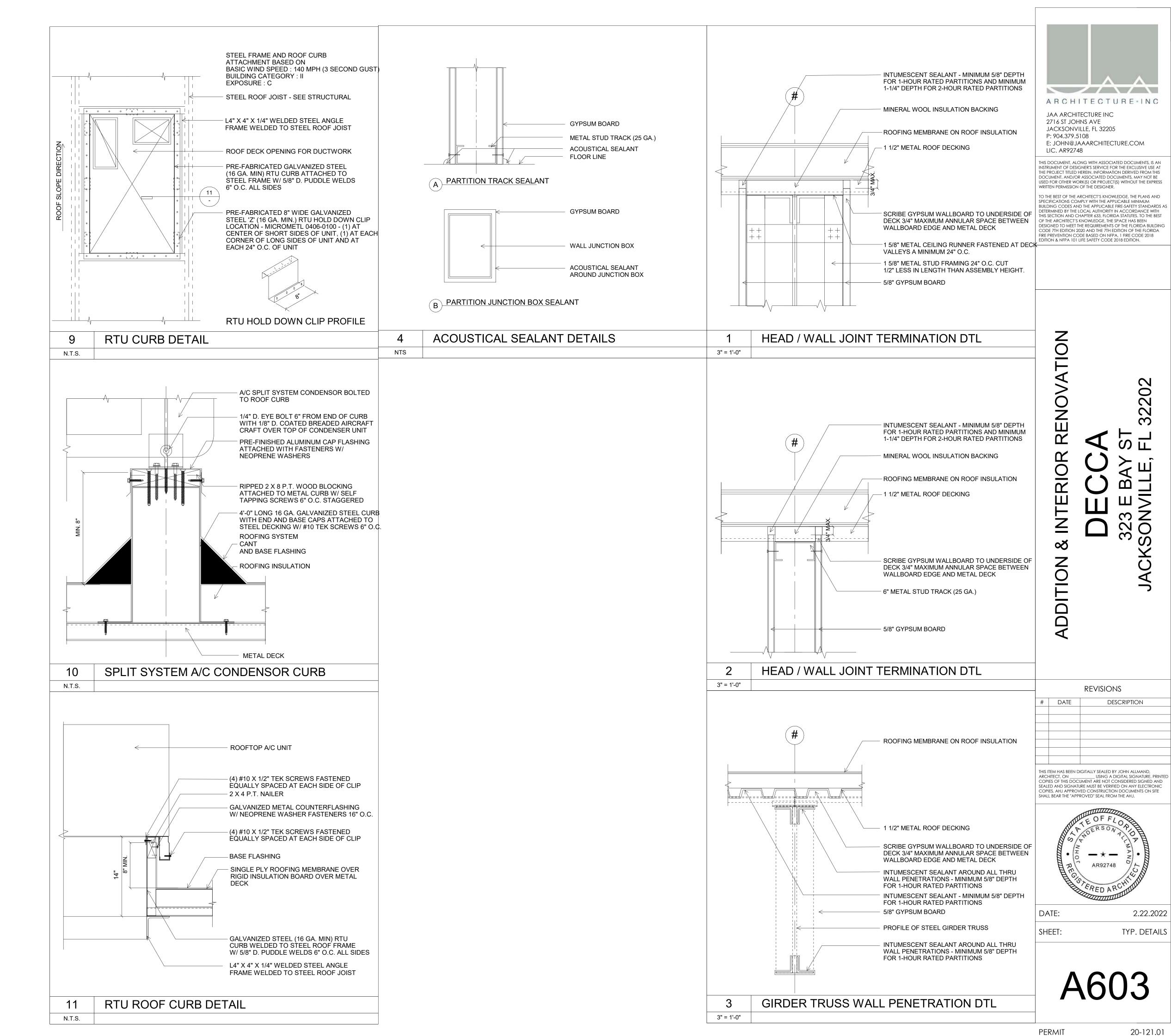
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**ADDITION** 









use of UL Certified products, equipment, system, devices, and materials.

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

gypsum panels, refer to Items 6 through 6F, Steel Framing Members\*.

side of wood stud without furring channels as described in Item 3.

(finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

head steel screws spaced 12 in. OC.

min), Type CLLX (finish rating 24 min)

(finish rating 21 min), Type RSX (finish rating 26 min).

NATIONAL GYPSUM CO - Riyadh, Saudi Arabia - Type FR, or WR.

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

(finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

CERTAINTEED GYPSUM INC — Type C, Type X, Type X-1 (finish rating 26 min), Type EGRG or GlasRoc.

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

(finish rating 24 min), Type ULIX (finish rating 20 min)

to be installed horizontally.

rating 24 min), Type WRX (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

Authorities Having Jurisdiction should be consulted before construction.

and alternate methods of construction.

Design Criteria and Allowable Variances

Design Criteria and Allowable Variances

February 14, 2022

Only products which bear UL's Mark are considered Certified

BXUV.U305

Design/System/Construction/Assembly Usage Disclaimer

• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for

Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and

compliance with applicable requirements. The published information cannot always address every construction nuance

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. **U305** 

Bearing Wall Rating — 1 Hi

Finish Rating - See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L

STC Rating - 56 (See Item 9)

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), respective

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted

Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.

3. Gypsum Board\* — 5/8 in, thick paper or vinyl surfaced, with beyeled, square, or tapered edges, applied either horizontally or

vertically, Gypsum panels nailed 7 in, OC with 6d cement coated nails 1-7/8 in, long, 0.0915 in, shank diam and 15/64 in, diam heads,

When Items 6, 6B, 6C, 6D, 6E, or 6F, Steel Framing Members\*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-

channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle

head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12

CABOT MANUFACTURING ULC — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold &

CERTAINTEED GYPSUM INC — Type C, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-AR (finish rating 24 min), Type

CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type 7 (finish rating 26 min), Type 8 (finish rating 26 min), Type 9 (finish rating 26 min),

Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water

22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type

26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 20 min), Type GPFS

Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating

LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X

(finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min),

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 20 min), T

rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 20 min), Type FSW-G (finish rating 20 min),

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-

5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PG-5WS (finish rating 20 min), Type PG-6 (finish rating 20 min), Type PG-6 (finish rating 20 min), Type PG-8 (finish rating 20

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish

min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (fi

24 min1. Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR

3A. Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied

screws spaced a max 8 in, OC, with last screw 1 in, from edge of board. When used in widths of other than 48 in., gypsum boards are

either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel

AMERICAN GYPSUM CO — Types AGX 1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG C (finish rating 25 min.), LighttRoc (finish

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type

IP X1 (finish rating 24 min), Type IP X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish

rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24

min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGI (finish rating 26 min)

min), Type FSW-C (finish rating 20 min), Type FSM-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSLX

IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish

When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of

When Item 6A, Steel Framing Members\*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring

self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min), Type ULIX (finish rating 20 min)

when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of

• 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

min). Type IPC-AR (finish rating 24 min)

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A DE C V — Types AR, IP-AR

UNITED STATES GYPSUM CO - Type SHX

USG MEXICO S A DE C V — Type SHX

CGC INC — Types AR, IP-AR

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX 3V. Gypsum Board\* — (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets\* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

### JOHNS MANVILLE

KNAUF INSULATION LLC MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m<sup>3</sup>

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO - Delta Board

THERMAFIBER INC - Type SAFB, SAFB FF

5A. Fiber, Sprayed\* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft<sup>3</sup>. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft<sup>3</sup>, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

U S GREENFIBER L L C — INS735, INS745, INS750LD and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. Fiber, Sprayed\* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC - Cellulose Insulation

5C. Batts and Blankets\* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

5E. Batts and Blankets\* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom-3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. Fiber, Sprayed\* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. Fiber, Sprayed\* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D). — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft<sup>3</sup>. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5H. Foamed Plastic\* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.

51. Fiber. Sprayed\* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft3. APPLEGATE HOLDINGS L L C - Applegate Advanced Stabilized Cellulose Insulation

5J. Foamed Plastic\* — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. Foamed Plastic\* — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim

6. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping #6 framing screws, min. 7/16 in, long at the midpoint of the overlap,

with one screw on each flange of the channel, Gypsum board attached to furring channels as described in Item 3.

21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

b. Steel Framing Members\* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to study with No. 8 x 1-1/2 in, coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in, wide furring channels, RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in, wide furring PAC INTERNATIONAL L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to

b. Steel Framing Members\* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are KINETICS NOISE CONTROL INC — Type Isomax

6B. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

6C. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS - RESILMOUNT Sound Isolation Clips - Type A237 or A2378

6D. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

6E. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below: a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss

screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3. b. Steel Framing Members\* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw

6F. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in, wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on b. Steel Framing Members\* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. Steel Framing Members\* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions PAC INTERNATIONAL L L C — Type RC-1 Boost

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

A. Item 2. above — Nailheads Shall be covered with joint compound

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound

insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

C. Item 5, above — Batts and Blankets\* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass

D. Item 6, above — Steel Framing Members\* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly

E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition

F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as

10. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

1. Cementitious Backer Units\* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in, for wood framing members spaced a max of 8 in, OC. When 4 ft, wide boards are used. horizontal joints need not be backed by framing. NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

2. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max, 16 in, OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in, studs. The wall

partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. Mineral and Fiber Board\* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. HOMASOTE CO — Homasote Type 440-32

14A. Mineral and Fiber Board\* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.

14C. Batts and Blankets\* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC. HERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. **Gypsum Board\*** — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1 1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.

CERTAINTEED GYPSUM INC — Type C

AMERICAN GYPSUM CO — Type AG-C

CGC INC - Types C, IP-X2, IPC-AR

CERTAINTEED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

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

USG BORAL DRYWALL SFZ LLC — Type C

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

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC — SoundStop

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

Last Updated on 2022-02-14

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ARCHITECTURE-INC

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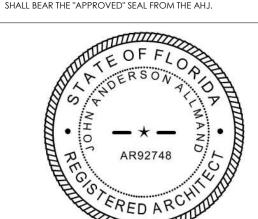
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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND ECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE SPACE HAS BEEN ESIGNED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION 2020 AND THE 7TH EDITION OF THE FLORIDA IRE PREVENTION CODE BASED ON NFPA, 1 FIRE CODE 2018 EDITION & NFPA 101 LIFE SAFETY CODE 2018 EDITION.

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### REVISIONS # DATE DESCRIPTION

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DATE: 2.22.2022 SHEET:

panel steel screws spaced 8 in, OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in, wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

3E. Gypsum Board\* — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish

Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

rating 24 min). Type WRX (finish rating 24 min). Type WRC (finish rating 24 min). Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (fi

24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24

3B. Gypsum Board\* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described

3C. Gypsum Board\* — (As an alternate to Items 3, 3A and 3B) — 5/8 in, thick, 2 ft wide, tongue and groove edge, applied horizontally

3D. Gypsum Board\* — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only- Nom 5/8 in.

staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum

thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and

to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse

in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

3F. Gypsum Board\* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC CGC INC — Type USGX (finish rating 22 min)

JNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.

USG BORAL DRYWALL SFZ LLC - , Type USGX (finish rating 22 min.)

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

3G. Gypsum Board\* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. SEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. Gypsum Board\* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

31. Gypsum Board\* — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in, thick, 4 ft wide panels, applied vertically, Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

3J.  $\mathbf{Gypsum\ Board}^*$  — (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally.  $\mathbf{Gypsum\ panels}$ secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC. CERTAINTEED GYPSUM INC - Type SilentFX

3K. Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied

either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in, long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in, OC with the last screw 1 in, from the edge of the board. When used in widths other than 48 in. gypsum panels are to be installed horizontally NATIONAL GYPSUM CO — Type FSK (finish rating 20 min). Type FSK-G (finish rating 20 min). Type FSW (finish rating 20 min). rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min).

3L. **Gypsum Board\* —** (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in, long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick. compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". MAYCO INDUSTRIES INC — "X-Ray Shielded Gypsum"

3M. Gypsum Board\* — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 8 ft long with a max thickness of 0.14 in, placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification OO-L-201f. Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4. RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

3N. Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick, 4 ft. wide, applied horizontally or vertically with vertical joints entered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.

CERTAINTEED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)

30. Wall and Partition Facings and Accessories\* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in, thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).

3P. Gypsum Board\* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagge NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)

3Q. Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied

either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CERTAINTEED GYPSUM INC — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

3R. Gypsum Board\* — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in, thick, 4 ft, wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

3S. Gypsum Board\* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13 3T. Wall and Partition Facings and Accessories\* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in.

thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545 3U. Gypsum Board\* — (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

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

CABOT MANUFACTURING ULC — Type X CERTAINTEED GYPSUM INC — Type X

CGC INC — Type SCX

AMERICAN GYPSUM CO — Types AGX-1

perimeter and 12 in. OC in the field.

PANEL REY S A - Type ARX, PRX

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

each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip

20-121.01

UL U305

PERMIT

2E. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2F. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights. 2G. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

2H. Framing Members\* — Steel Studs — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly

2I. Framing Members\* - Steel Studs - (As an alternate to Item 2, For use with Items 5C or 5L or 5K) - Proprietary channel shaped studs, 3-5/8 in, deep spaced a max of 24 in, OC. Studs to be cut 3/4 in less than the assembly height http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 5/12

BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

### Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or;

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

JSG MEXICO S A DE C V - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-

5H. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of vall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used vith Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protectio on Each Side of Wall table. Nom 5/8 or 3/4 in. hink lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 28 with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

51. Gypsum Board\* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC - Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

53. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of vall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in, thick lead backed gypsum panels with beyeled, square or tapered edges, applied vertically Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 9/12

BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263

1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max. 1A. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2B, CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper $25^{\text{TM}}$  Track

CRACO MFG INC — SmartTrack25™

 $\mathbf{MARINO/WARE,\,DIV\,\,OF\,\,WARE\,\,INDUSTRIES\,\,INC-} \ \mathsf{Viper25^{tM}}\ \mathsf{Track}$ 

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper $20^{\text{TM}}$  Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

STEEL INVESTMENT GROUP L L C - AlphaSTUD

1C. Framing Members\* — Floor and Ceiling Runners — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max. **ALLSTEEL & GYPSUM PRODUCTS INC** — Type SUPREME D24/30EQD and Type SUPREME D20 http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 2/12

BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of TELLING INDUSTRIES L L C — Viper25™

23. Framing Members\* - Metal Studs - Not Shown - In lieu of Item 2 - proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights TELLING INDUSTRIES L L C — Viper20™

2K. Framing Members\* - Steel Studs - As an alternate to Item 2 - For use with Item 1, channel shaped studs, Studs to be cut 3/8 to 3/4 in. less than assembly height. EB METAL INC - NITROSTUD

2L. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2M. Framing Members\* — Steel Studs — As an alternate to Item 2 — For use with Item 1, channel shaped students are  $\frac{1}{2}$  and  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  are  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  and  $\frac{1}{2}$  are  $\frac{1}{2}$  are fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

 ${\tt 2N.} \ \textbf{Framing Members*-Steel Studs-} \ {\tt As an alternate to Item 2-proprietary channel shaped steel studs, minus and the state of the properties of the state of the$ epth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.

20. Framing Members\* - Steel Studs - As an alternate to Item 2 - proprietary channel shaped steel studs, min ndicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. 2P. Framing Members\* - Steel Studs - As an alternate to Item 2 - proprietary channel shaped steel studs, min OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members\*** — **Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. Batts and Blankets\* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.

See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4A. Batts and Blankets\* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 6/12

12/20/2018 BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263

studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC - Type RPP - Lead Lined Drywall

5K. Gypsum Board\* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. orizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2 through 20	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4B)
1	3-5/8	1 layer, 5/8 in. thick	3-1/2 in.
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional

UNITED STATES GYPSUM CO - 5/8 in. thick Type ULIX

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to of the standard of the standar 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channel each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A. 7A. Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — As an

> a, Furring Channels - Formed of No. 25 MSG galv steel, 2-9/16 in, or 2-23/32 in, wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with

b. Steel Framing Members\* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in, wide furring channels, RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in, wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members\* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A. http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 10/12

BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type

QUAIL RUN BUILDING MATERIALS INC - Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EOD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. Floor and Ceiling Runners — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 ted or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC. 1E. **Framing Members\*** — **Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C - ProTRAK

MBA METAL FRAMING - ProTRAK

RAM SALES L L C - Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK

1F. Framing Members\* - Floor and Ceiling Runner - Not Shown - In lieu of Item 1 - For use with Item 2F, min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. SUPER STUD BUILDING PRODUCTS - The Edge

1G. Framing Members\* — Floor and Ceiling Runner — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max. STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. Floor and Ceiling Runners — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC. MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viner20™ Track VT100

11. Framing Members\* — Floor and Ceiling Runners — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max. TELLING INDUSTRIES L L C - TRUE-TRACK<sup>TM</sup>

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BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

earing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resista See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4C. Fiber, Sprayed\* - (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber**,

4B. Batts and Blankets\* - For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation

5. Gypsum Board\* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal

tt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

### Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX,

UNITED STATES GYPSUM CO - 1/2 in. thick Type C. IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, P-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC − 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

 $\begin{tabular}{ll} \textbf{USG MEXICO S A DE C V} &= 1/2 & in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 & in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 & in. thick Types IP-X3 or ULTRACODE \\ \end{tabular}$ 

When Item 7B, **Steel Framing Members\***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6. 5A. **Gypsum Board\*** — (As an alternate to Item 5) - 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX. http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.U419&ccnshorttitle=Fire+Resistance+Ratings+-+ANSI/... 7/12

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KINETICS NOISE CONTROL INC — Type Isomax

PLITEQ INC - Type GENIECLIP

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted

7C. Framing Members\* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members\* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum selfdrilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into

7D. **Steel Framing Members\*** — (Optional on one or both sides, not shown, for single or double layer systems) urring channels and Steel Framing Members as described below a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A. b. Steel Framing Members\* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips

E. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and

STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

b. Steel Framing Members\* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

F. Steel Framing Members\* — (Optional on one or both sides, not shown, for single or double layer systems) tesilient channels and Steel Framing Members as described belo a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channel overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws paced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as escribed in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members\*** — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head selfdrilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

 $8. \ \textbf{Joint Tape and Compound} - \textbf{Vinyl or case} \textbf{in, dry or premixed joint compound applied in two coats to joints and} \\$ screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge 9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.  $10. \ \textbf{Caulking and Sealants*} - (\textbf{Optional, Not Shown}) - \textbf{A bead of acoustical sealant applied around the partition}$ 

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BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263

1]. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max. TELLING INDUSTRIES L L C — Viper25™ Track

1K. Framing Members\* - Floor and Ceiling Runner - Not Shown - In lieu of Item 1 - For use with Item 2J,

TELLING INDUSTRIES L L C — Viper20™ Track

1L. Framing Members\* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. STEEL INVESTMENT GROUP L L C — AlphaTRAK

1M. Framing Members\* — Floor and Ceiling Runners — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. RONDO BUILDING SERVICES PTY LTD - Rondo Wall Track

 ${\tt 1N.} \ \textbf{Framing Members*} - \textbf{Floor and Ceiling Runners} - {\tt Not Shown} - {\tt As an alternate to Item 1-For use with}$ tem 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max. OEG BUILDING MATERIALS - OEG Track

10. Framing Members\* - Floor and Ceiling Runner - Not Shown - In lieu of Item 1 - For use with Item 2Q, channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max. CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height 2A. Steel Studs - (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J and 5K) - Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height. 2B. Framing Members\* - Steel Studs — (As an alternate to Item 2, For use with Items 5C, 5I or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

gypsum board only.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25"

FUSION BUILDING PRODUCTS — Viper25™

CRACO MFG INC — SmartStud25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. Framing Members\* — Steel Studs — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights. CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper20™

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BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B.  $\mathbf{Gypsum\ Board}*$  — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12)

RAY-BAR ENGINEERING CORP — Type RB-LBG

 $5C. \ \textbf{Gypsum Board*} - ( \text{For Use With Item 2B}) - \text{Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels} \\$ with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in long Type S coated steel screws spaced 8 in. OC starting 4 in. board is to be installed on each side of the studs with 1 in, long Type S coated steel screws spaced 8 in, OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX.

UNITED STATES GYPSUM CO - Type SCX, SGX

USG BORAL DRYWALL SFZ LLC - Type SCX

USG MEXICO S A DE C V − Type SCX

5D. **Gypsum Board\*** — (As an alternate to Item 5) - 5/8 in. thick, 48 in. wide, applied vertically or horizontally. CGC INC - Type USGX

UNITED STATES GYPSUM CO - Type USGX

USG BORAL DRYWALL SFZ LLC - Type USGX USG MEXICO S A DE C V - Type USGX

5E. Gypsum Board\* - (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

5F. Gypsum Board\* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in. UNITED STATES GYPSUM CO - 5/8 in. thick Type SCX, SGX

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12/20/2018 BXUV.U419 - Fire Resistance Ratings - ANSI/UL 263 UNITED STATES GYPSUM CO — Type AS

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips 11A. **Lead Batten Strips** — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min.

Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum 12. **Lead Discs or Tabs** — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9%

meeting the Federal specification QQ-L-201f, Grade "C" 12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs sion fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. Lead Batten Strips - (Not Shown, For Use With Item 5E) - Lead batten strips, 2 in, wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal pecification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations 14. Lead Tabs — (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at eac

location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standar \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectivel

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REVISIONS # DATE DESCRIPTION

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UL U419

### BXUV.U415

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

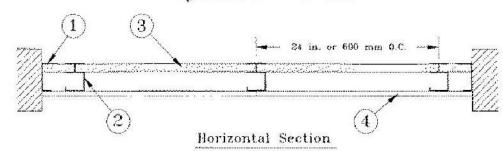
Design Criteria and Allowable Variances See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

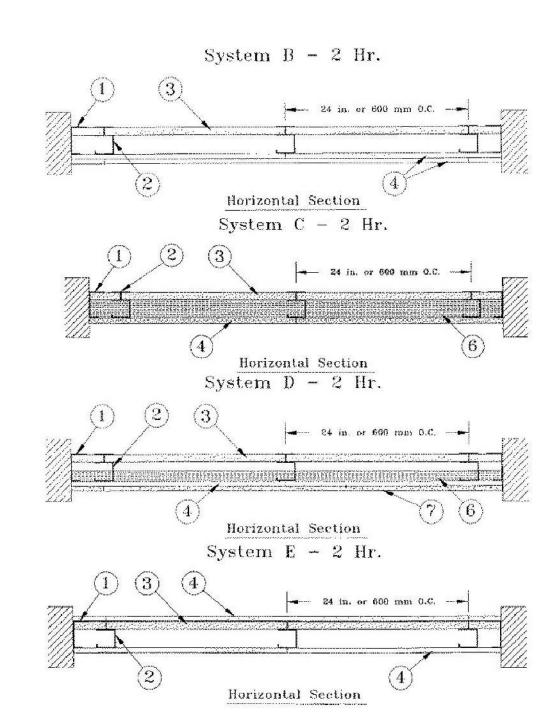
Design No. **U415** 

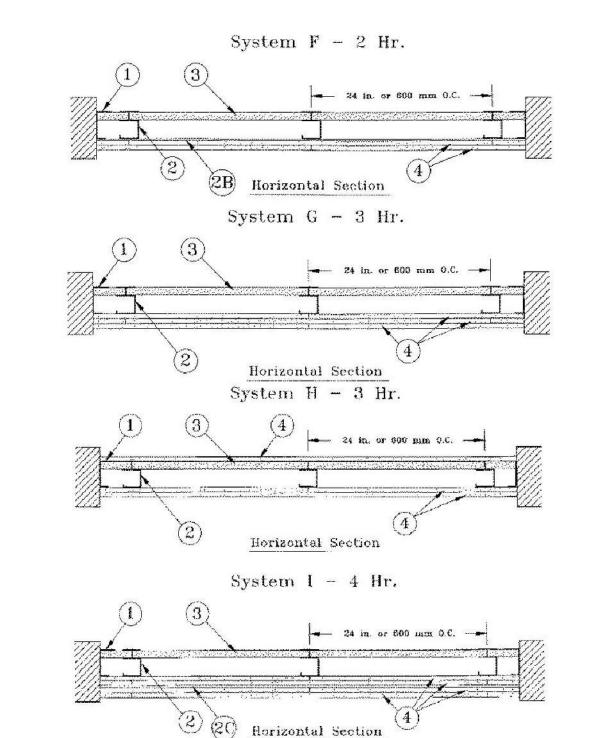
### February 14, 2022

Design Criteria and Allowable Variances

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. System A - 1 Hr.







1. Floor, Side and Ceiling Runners — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel. Runners

positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped

2. Steel Studs — "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. Steel Studs — (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. Furring Channels — (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in, OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 panhead steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

2C. Furring Channels — For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips, RSIC-1 clip for use with 2-9/16 in, wide furring channels, RSIC-1 (2.75) clip for use with 2-23/32 in, wide furring

### PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75)

2E. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members\* — Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R

2F. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described

b. Steel Framing Members\* — Used to attach furring channels (Item 2Da) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP

2G. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Gb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 4.

b. Steel Framing Members\* — Used to attach furring channels (Item 2Ga) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA — Type SonusClip

2H. Steel Framing Members\* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members\* — Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. **KEENE BUILDING PRODUCTS CO INC** — Type RC+ Assurance Clip

21. Steel Framing Members\* — (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7). a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as

b. Steel Framing Members\* — Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

3. Gypsum Board\* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in, by 22 in, strips of 3/4 in, thick gypsum wallboard (Item 4), Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips. CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board\* -

System A - 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

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

System B — 2 Hr Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when nstalled horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints

between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC,

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in, thick, 48 in, or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

**USG BORAL DRYWALL SFZ LLC** — Type ULTRACODE

**USG MEXICO S A DE C V** — Types IP-X3 or ULTRACODE

System D - 2 Hr Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in, when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

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

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in, when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRX

### System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX.

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC,

### System G - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC - Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC - Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

### System H - 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers. CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC - Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

### System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over study and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in, OC. Second layer secured to study with 2-1/4 in, long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in, OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10). RAY-BAR ENGINEERING CORP — Type RB-LBG

4A. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment

4B. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in, wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. Gypsum Board\* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, For direct attachment only) — Nom 5/8 in, thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. Joint Tape and Compound — (Not Shown)

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

Systems A, B, C, E, F, G, H, I

Systems A, B, E, F, G, H, I (Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL

Systems C & D Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m<sup>3</sup>

THERMAFIBER INC — Type SAFB, SAFB FF

Service. Always look for the Mark on the product.

Classification Marking as to Fire Resistance.

7. Cementitious Backer Units\* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints. UNITED STATES GYPSUM CO — Type DCB

8. Laminating Adhesive\* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BJLZ) in the Building Materials Directory for names of Classified

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long

Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. Lead Batten Strips — (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

10A. Lead Discs — (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

11. Lead Batten Strips — (Not Shown, For Use With Item 48) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in, Strips placed on the face of studs and attached to the stud with two min, 1 in, long min, Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. Lead Tabs — (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

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

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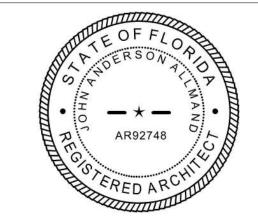
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GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) — CKNX.R11809

NATIONAL GYPSUM CO (View Classification) — eXP-C, CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO (View Classification) — CKNX.R40305

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

**USG BORAL DRYWALL SFZ LLC (View Classification)** — CKNX.R38438

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

2A. **Gypsum Board\*** — As an alternate to Item 2- 3/4 in. thick gypsum wallboard. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints. **CGC INC** — Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Type IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

**USG MEXICO S A DE C V** — Type IP-X3 or ULTRACODE

2B. **Gypsum Board\*** — (As an alternate to Items 2 and 2A) — Nominal 5/8 in. thick panels. One of the layers of **Gypsum Board** (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer and secured as described in Item 2. **PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock ES

2C. Wall and Partition Facings and Accessories\* — (As an alternate to Item 2 through 2B) — Composite Gypsum Panel — Nominal 5/8 in. thick panels. One of the layers of **Gypsum Board** (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer of composite gypsum panel and secured as described in Item 2.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR

2D. **Gypsum Board\*** — (As an alternate to Item 2, For use with Item 4A) — 1/2 in. thick, installed as described in Item 2.

CERTAINTEED GYPSUM INC — Type C

3. **Steel Stud** — 1-5/8 in. wide with 1-5/16 and 1-7/16 in. legs having a 1/4- in. folded flange, fabricated from No. 25 MSG galv steel. Length to be 1/2 in. less than the assembly height.

3A. **As an alternate to Item 3 Steel Framing Members\*** — galv. steel clips spaced 4 ft OC and 1-1/4 in. from top and bottem of column. A No. 28 MSG galv steel support angle with 1-1/4 in. length shall be placed over clips and secured with screws attaching the wallboard. The angle cut 1 in. less than assembly height splices in angle to occur over clips. The clips for use with wide flange columns only

JOHN WAGNER ASSOCIATES INC, DBA GRABBER — Types CB, CB1Clips.

4. Corner Beads — No. 28 MSG galv steel, 1-1/4 in. legs to be attached to the wallboard with No. 6 by 1 in. screws spaced 12 in. OC

4A. **Corner Bead\*** — (As an alternate to Item 4, For use with Item 2D) — 0.058 in. thick at shoulder thickness, 1-7/8 in. legs, attached to gypsum board using all-purpose ready mix joint compound. **CERTAINTEED CORP** — Type NC

6. **Screws** — For attaching first layer of wallboard to steel studs, and third layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1 in. (or 1-1/4 in. for 3/4 in. thick wallboard) Phillips head self-drilling, self-tapping double lead screws spaced 24 in. OC For attaching second layer of wallboard to steel studs and fourth layer of wallboard to 2 in. by 2 in. steel angle (25 Ga) to be No. 6 by 1-

7. Finishing System — (Not Shown) — Joint compound applied over corner beads to a thickness of 1/16 in.

5. **Tie Wire** — No. 18 SWG steel wire spaced 24 in. OC used with second layer of wallboard.

steel studs to be No. 8 by 2-1/4 in. screws of the same type spaced 12 in. OC

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

3/4 in. (or 2-1/4 in. for 3/4 in. thick wallboard) steel screws of the same type spaced 12 in. OC For attaching third layer of wallboard to

Last Updated on 2021-06-25

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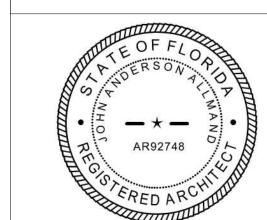
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**ADDITION** 

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A704

BXUV.X528

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- 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.
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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

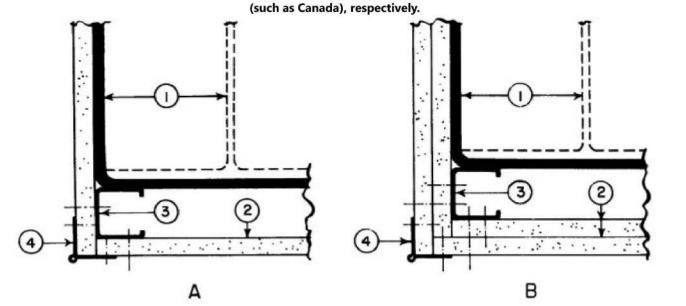
Design Criteria and Allowable Variances

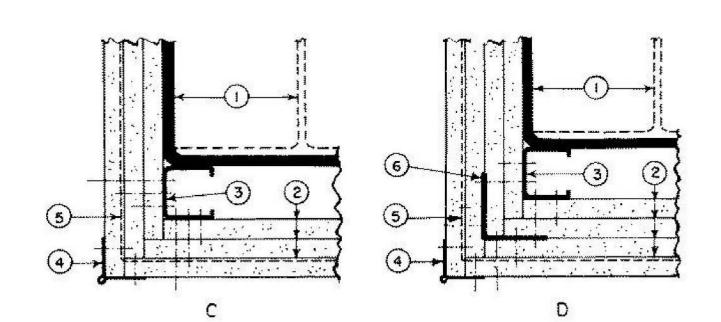
<u>See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances</u>

Design No. X528

Ratings — 1, 2 and 3 Hr.

\* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification





### CORNER DETAILS OF WALLBOARD SUPPORT SYSTEMS WITHOUT STEEL COVERS

1. **Steel Column** — Min sizes of W-shaped and tubular steel columns which appear in the AISC Steel Construction Manual as shown under Item 2.

2. Gypsum Board\* — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 1/2 in. or 5/8 in. thick gypsum board. Applied in layers as noted in the above illustrations. Boards are to be applied vertically without horizontal joints. Min total thickness of layers in inches for the various ratings and min column sizes are as follows:

W Shaped Column Min Column	Rating (Hr)		(Hr)	Corner Details For Various Rating		
Size	1	2	3	1 Hr	2 Hr	3 Hr
Total thickness (In	.)					
W4x13	1	1-1/2	2-1/4	В	С	D
W6x15.5	1	1-1/2	2-1/4	В	С	D
W10x49	1/2	1-1/8	1-7/8	А	В	С
Tube Shaped colu	mns	······································				
TS 4 by 4						
by0.188	1	1-3/4	2-5/8	В	С	D
TS 8 by 8						
by 0.250	5/8	1-1/2	2-1/4	А	С	D

AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

 $\textbf{BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO} ~ \underline{(View Classification)} - \text{CKNX.R19374}$ 

**CABOT MANUFACTURING ULC (View Classification)** — CKNX.R25370

use of UL Certified products, equipment, system, devices, and materials.

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Authorities Having Jurisdiction should be consulted before construction

Only products which bear UL's Mark are considered Certified.

and alternate methods of construction.

Design Criteria and Allowable Variances

Design Criteria and Allowable Variances

1. Steel Beam - W6 x 15.5, min size.

3. Welded Wire Fabric - 6 x 6 - W1.4 x W1.4.

steel floor units shall not be penetrated by fasteners (Item 7).

Welded to top flange of beam through the floor units.

6. Joint Cover — 2 in, wide pressure sensitive cloth tape.

units and therefore shall not penetrate the cell areas of the cellular floor units.

Rating Hr

GREENTECH ASIA PACIFIC SDN BDH — Types M-II, or M-II/P, investigated for exterior use.

ISOLATEK INTERNATIONAL — Types 800, M-II, M-II/P or TG investigated for exterior use.

determination, see Design Information Section.

**NEWKEM PRODUCTS CORP** — Types M-II or TG. Types M-II and TG investigated for exterior use.

and form units, 2-1/2 in.

see Design Information Section.

Assembly Rating Hr

BXUV.D744 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

• 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

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. D744

October 08, 2019

Restrained Assembly Rating — 2, 3 and 4 Hrs.

Unrestrained Assembly Rating — 1, 1-1/2, 2 and 3 Hrs.

Unrestrained Beam Rating — 1, 1-1/2, 2, 3 and 4 Hrs.

(See Item 9)

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.

2. Normal Weight Concrete — Normal weight concrete, carbonate or siliceous aggregate, 150 pcf unit weight, 4000 psi compressive strength. Lightweight Concrete— For use with item 9A. Expanded shale, clay or slate aggregate by rotary-kiln

4. Steel Floor and Form Units\* — Composite 1-1/2 or 1-5/8 in. deep galy units. Floor may consist of all fluted units, all cellular units or any combination of fluted and cellular units. Fluted units to be 24 in, wide, No. 22 MSG min. Cellular units to

be 24 in. wide, No. 20/20 MSG min. Adjacent units buttoned punched together 36 in. O.C. at side joints. The cells of the cellular

Shear Connector-(Optional) — Studs, 3/4 in. diam by 3-7/8 in. long, headed type or equivalent per AISC Specification.

7. Fasteners — No. 12 by 1 in., Type AB, with high-low threads and a flat head. For powder actuated attachment, any standard

concrete and steel fastener with a min length of 1-1/4 in., min shank diam of 0.145 in. and a min 1/16 by 1/2 in. diam washer. Fasteners spaced 12 in. O.C. in both direction to secure lath to floor units. Fasteners secured only to valley portion of the floor

8. Metal Lath — 3/8 in. diamond mesh, 2.5 lbs per sq yd painted or galv expanded steel. Adjacent pieces of lath overlapped 3

9. Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying or troweling in one or more coats

to a final thickness as shown in the table below, to steel surfaces which must be clean and free of dirt, loose scale and oil.

Thickness beneath floor units measured to face of lath. Min and density of 38 pcf with min indivalue of 35 pcf for Type 800.

Min avg density of 44 pcf with min ind value of 40 pcf for Type M-II. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. Min avg density of 44 pcf with min ind value of 42 pcf for Type TG. For method of density determination,

 $\textbf{GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C} \\ - \text{Types M-II, M-II/P or TG. Types M-II, M-II/P and TG investigated for the transfer of the transfe$ 

9A. Alternate Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying in one or more coats to

Rating Hr Rating Hr Rating Hr Beam Beneath Floor Beam Beneath Floor

a final thickness as described below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Thickness beneath floor units measured to face of lath. Min avg density of 41 pcf with min ind value of 37 pcf. For method of density

Spray Applied Fire

Resistive Mtl In.

1-1/16 5/8

Min Thk of Spray Applied Min Thk of Spray Applied

1-7/8 1-1/8

method, 116-120 pcf unit weight, 3000 psi compressive strength, vibrated. Min thickness as measured to crests of steel floor

(See Item 9)

(See Item 9)

• 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

· Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and

CARBOLINE (INDIA) PVT LTD — Type 241, Type 241 HD. Investigated for exterior use.

Service. Always look for the Mark on the product.

**STONCOR SOUTH CONE S A** — Type 241, Type 241 HD. Investigated for exterior use.

10. Metal Lath — (Optional-See tables in Items 9F, 9G and 9H) — 3.4 lb/sq yd galv or painted expanded steel applied only to bottom flange of beam. Secured by bending tight around flange a minimum of 1-1/2 in. toward web of beam.

11. Metal Lath — (Not Shown) — Where Type 7HD is applied to steel deck, 3/8 in. metal ribbed lath weighing 3.4 lb/yd<sup>2</sup> shall

Last Updated on 2019-10-08

be secured to the underside of the steel deck (ribs upward) with S-12 by 3/8 in. long pan head, self-tapping steel screws spaced 12 in. OC in all directions. Steel screws shall be fitted with 1/2 in. diameter steel washers. Adjacent pieces of lath shall

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GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6/HB, MK-10 HB, MK-10 HB Extended Set, MK-6s, Monokote Acoustic 1

GCP APPLIED TECHNOLOGIES INC — Types 105, MK-6/HY, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, Monokote Acoustic 1,

9D. **Alternate Spray-Applied Fire Resistive Materials\* —** Prepared by mixing with water according to instructions on each bag of material and spray or trowel applied in one or more coats to final minimum thicknesses shown below. Steel surfaces must be clean and free of dirt, loose scale and oil. Where lath is present thicknesses are to be measured to face of lath. Min. avg. density of 28 pcf with min ind density of 25 pcf for the Type 239. The min average density of 40 pcf with a min individual density of 37 pcf for the Type 40 and 40T. For method of density determination, see Design Information Section. Surface of material may be lightly finished with a trowel. The thicknesses shown below are applicable when metal lath (Item 10) is used:

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam	Min Thk of Spray Applied Fire Resistive Mtl In.	
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	11/16	7/8

The thicknesses shown below are applicable when metal lath (Item 10) is omitted:

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam		hk of Spray Applied Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	1-1/16	7/8
3	1-1/2	1-1/2	1-3/8	7/8
4	2	2	1-5/8	1-5/8
4	3	3	2	7/8
4	3	4	2-5/16	7/8

CARBOLINE CO — Type 40, Type 239. Investigated for exterior use.

CARBOLINE (INDIA) PVT LTD - Type 40, Type 239. Investigated for exterior use.

PERLITA Y VERMICULITA SLU — Type 40, 40T, Type 239, Investigated for exterior use.

STONCOR MIDDLE EAST L L C — Type 40, Type 239. Investigated for exterior use.

**STONCOR SOUTH CONE S A** — Type 40, Type 239. Investigated for exterior use.

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam		nk of Spray Applied Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	11/16	7/8
3	1-1/2	1-1/2	1	7/8
4	2	2	1-1/4	7/8
4	3	3	1-5/8	7/8
			+	

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam	Min Thk of Spray Appl Fire Resistive Mtl In.	
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	15/16	7/8
3	1-1/2	1-1/2	1-1/4	7/8
4	2	2	1-1/2	7/8
4	3	3	1-7/8	7/8

CARBOLINE CO - Type 240. Investigated for exterior use.

9F. Alternate Spray-Applied Fire Resistive Materials\* — Prepared by mixing with water according to instructions on each bag of material and spray or trowel applied in one or more coats to final minimum thicknesses shown below. Steel surfaces must be clean and free of dirt, loose scale and oil. Where lath is present thicknesses are to be measured to face of lath. Min. avg. density of 55 pcf with min ind density of 50 pcf. For method of density determination, see Design Information Section. Surface of material may be lightly finished with a trowel.

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam		nk of Spray Applied Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	11/16	7/8
3	1-1/2	1-1/2	1	7/8
4	2	2	1-1/4	7/8
4	3	3	1-5/8	7/8
4	3	4	1-15/16	7/8

PYROK INC — Types HD, HDR and Acoustement 40, investigated for exterior use.

9B. Alternate Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying in one or more coats to a final thickness as described below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Thickness beneath floor units measured to face of lath. Min avg density of 33 pcf with min ind value of 30 pcf. For method of density

Restrained	Unrestrained	Unrestrained		of Spray Applied
Assembly	Assembly	Beam		esistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor

PYROK INC — Types MD, MDR and Acoustement 30, investigated for exterior use.

9C. Alternate Spray-Applied Fire Resistive Materials\* — Applied by mixing with water and spraying in one or more coats to a final thickness as described below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Thickness beneath floor units measured to face of lath. Min avg and min ind density of 15/14 pcf respectively for Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD, MK-10 HB, MK-10 HB Extended Set, LD, MK-6/ED, MK-6/CBF, MK-6/HY, MK-6s, RG. Min avg and min ind density of 19/18 pcf for Types 7GP, 7HD, 105. Min avg and min ind density of 22/19 pcf for Types KM-601, Z-106, Z-106/G, Z-106/HY. For method of density determination, see Design Information Section.

1-1/4

1-5/8

1-15/16

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam	Min Thk of Spray Applied Fire Resistive Mtl In.	
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
4	3	3	1-1/2	3/4

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6/HB, MK-10 HB, MK-10 HB Extended Set, MK-6s, Z-

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

RG, Monokote Acoustic 5, Z-106, Z-106/G, Z-106/HY

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam		Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	11/16	7/8

3	1-1/2	1-1/2	1	7/8
4	2	2	1-1/4	7/8
4	3	3	1-5/8	7/8
4	3	4	1-15/16	7/8

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam	Min Thk of Spray Appli Fire Resistive Mtl In.	
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	1-1/16	7/8
3	1-1/2	1-1/2	1-3/8	7/8
4	2	2	1-5/8	1-5/8
4	3	3	2	7/8
4	3	4	2-5/16	7/8

9E	E. Alternate Spray-Applied Fire Resistive Materials* — Prepared by mixing with water according to instructions on each
ba	ag of material and spray or trowel applied in one or more coats to final minimum thicknesses shown below. Steel surfaces
m	oust be clean and free of dirt, loose scale and oil. Where lath is present thicknesses are to be measured to face of lath. Min.
av	rg. density of 50 pcf with min ind density of 45 pcf. For method of density determination, see Design Information Section.
Su	urface of material may be lightly finished with a trowel.
Th	ne thicknesses shown below are applicable when metal lath (Item 10) is used:

Restrained Assembly	Unrestrained Assembly	estramed Offrestramed Fire Posistive N		nk of Spray Applied Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	Beneath Floor
2	1	1	11/16	7/8
3	1-1/2	1-1/2	1	7/8
4	2	2	1-1/4	7/8
4	3	3	1-5/8	7/8
ŷ.	5	13	1 15/10	7/0

### The thicknesses shown below are applicable when metal lath (Item 10) is omitted:

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Fire Resistive Mtl In.		
			Beam	Beneath Floor	
2	1	1	15/16	7/8	
3	1-1/2	1-1/2	1-1/4	7/8	
4	2	2	1-1/2	7/8	
4	3	3	1-7/8	7/8	

**STONCOR SOUTH CONE S A** — Type 240. Investigated for exterior use.

The thicknesses shown below are applicable when metal lath (Item 10) is used:

Restrained Assembly	Unrestrained Assembly	Unrestrained Beam		Thk of Spray Applied e Resistive Mtl In.
Rating Hr	Rating Hr	Rating Hr	Beam	<b>Beneath Floor</b>
2	1	1	15/16	7/8
3	1.10	1.10	1.174	7.00

CARBOLINE CO — Type 241, Type 241 HD. Investigated for exterior use.

The thicknesses shown below are applicable when metal lath (Item 10) is omitted:

XHBN.HW-D-0077 - Joint Systems

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

• 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

XHBN - Joint Systems

See General Information for Joint Systems

UL Product iQ"

System No. HW-D-0077

September 01, 2016 Assembly Rating — 1 or 2 Hr (See Items 2 and 3)

Nominal Joint Width — 3/4 In. L Rating At Ambient — Less Than 1 CFM/Lin Ft

Class II Movement Capabilities — 17% Compression or Extension

1. Floor Assembly — The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in

B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

runner and Fill, Void or Cavity Materials (Item 3), the steel floor units may be sprayed with a min 5/16 in. (8 mm)

1A. Roof Assembly — (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater

B. Roof Insulation — Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the

1B. Roof Assembly — As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling

Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly

B. Spray—Applied Fire Resistive Materials\* — (Not Shown)—Prior to or after the installation of the steel ceiling

2. Wall Assembly — The 1 or 2 hr fire-rated gypsum board /steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and

A. Steel Floor and Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in, (6 mm) greater than max extended joint width Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used

A1. Light Gauge Framing\*-Slotted Ceiling Runner — As an alternate to the ceiling runner in Item 2A, slotted ceiling

runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced 24 in. (610mm) OC before or after optional spray-applied fire resistive material is used. The

runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling

use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied

A2. Light Gauge Framing\*-Vertical Deflection Ceiling Runner — As an alternate to the ceiling runners in Items 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs.

direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced 24 in.

(610mm) OC before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling

A3. Light Gauge Framing\* - Notched Ceiling Runner — As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and

secured to valleys with steel masonry anchors, steel fasteners or welds spaced 24 in. (610mm) OC before or after

optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used

Flanges sized to accommodate steel studs (Item 2B), Vertical deflection ceiling runner installed perpendicular to

runner may only be used prior to the installation of the optional spray-applied material. THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with

than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

C. Spray-Applied Fire Resistive Materials — (Optional, Not Shown) — Prior to or after the installation of the ceiling

the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall

A. Steel Floor and Form Units\* — Max 3 in. (76 mm) deep galv steel fluted floor units.

thickness to a max 11/16 in. (17 mm) thickness of fire resistive material.

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.

rating of the wall assembly. The roof assembly shall include the following construction features:

the type and thickness of fire resistive material indicated in the individual P700 Series design.

A. Steel Roof Deck — Max 3 in. (76 mm) deep galv steel fluted roof deck.

GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

prior to the installation of the optional spray-applied material.

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

METAL-LITE INC — The System

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT

TELLING INDUSTRIES L L C — True-Action Deflection Track

prior to the installation of the optional spray-applied material.

OLMAR SUPPLY INC — Type SCR

BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

shall include the following construction features:

include the following construction features:

**SECTION A-A** 

L Rating At 400°F — Less Than 1 CFM/Lin Ft

B. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC, When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in.

C. Gypsum Board\* — Gypsum board installed to a min total thickness of 5/8 or 1-1/4 in. (16 or 32 mm) on each side of wall, for 1 or 2 hr fire resistance rated walls, respectively. Wall to be constructed as specified in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that the gypsum board is cut to fit the contour of the steel floor units with a max 3/4 in. (19 mm) gap. The screws attaching the gypsum board to the studs at the top of the first layer shall be located 4 in. (102 mm) from the steel floor unit valleys. The screws attaching the second layer to the steel studs shall be installed into the studs 3-1/2 in. (89 mm) below the valleys of the steel floor units. The hourly fire rating of the joint system is dependent on the hourly rating of the wall.

3. Fill, Void or Cavity Material\* — Sealant — Max separation between bottom of floor and top of wall is 3/4 in. (19 mm). The joint system is designed to accommodate a max 17 percent compression or extension from its installed width. Min 1-1/4 in. (32 mm) thickness of fill material flush with the surface of the gypsum board for 2 hr fire rated systems or 5/8 in. (16 mm) thickness of fill material for 1 hr fire rated systems installed on each side of the wall between the top of the gypsum board and the bottom of the steel floor or roof deck or the spray-applied fire resistive material on the steel deck. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP606 Flexible Firestop Sealant

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

Last Updated on 2016-09-01

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ARCHITECTURE-INC

JAA ARCHITECTURE INC

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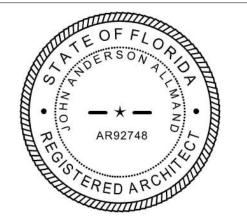
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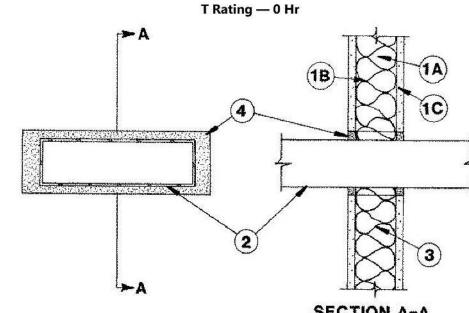
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### XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-7001 May 01, 1997

F Rating — 1 Hr



1. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.

B. Batts and Blankets\* — Nom 1-1/2 in. thick glass fiber batts friction fitted to fill interior of stud cavities.

C. Gypsum Board\* — The gypsum wallboard type, thickness, number of layers and orientation shall be as specified in the individual wall and partition Design. Max area of opening is 48 sq in. with max dimension of 12 in.

2. Air Duct — Prefabricated 24 MSG sheet metal air duct. Max cross sectional area of duct is 30 sq in. with max dimension of 10 in. A min 7/16 to max 1-5/8 in. annular space is required within the firestop system. Air duct to be rigidly supported on both sides of wall assembly.

3. Forming Material\* — Min 2-1/2 in. thickness of min 3.5 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Forming material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.

4. Fill, Void or Cavity Material\* — Sealant — Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Dry mix material mixed with water at a rate of 2.1 parts dry mix to 1 lb part water by weight in accordance with the accompanying installation instructions. UNITED STATES GYPSUM CO - Type FO

4A. Fill, Void or Cavity Material\* — Not Shown — Two component fill material used as an alternate to Item 4. Min 1/2 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Ready-mixed component mixed with accelerator component at a rate of 66 parts of ready-mixed component to 1 part of accelerator component by weight in accordance with the accompanying installation UNITED STATES GYPSUM CO — Type RFC

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

Last Updated on 1997-05-01

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UL Product iQ™

### XHEZ.W-L-2073 - Through-penetration Firestop Systems

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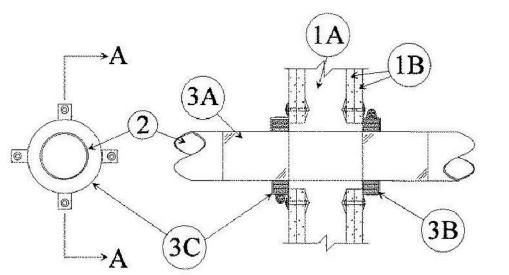
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- · When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product
- manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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### XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems

System No. W-L-2073

F Ratings — 1 and 2 Hr (See Item 3) T Ratings — 0, 1 and 2 Hr (See Item 2)



### **SECTION A-A**

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm)

B. Gypsum Board\* — Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Diam of opening shall be a max of 1/8 in. (3.2 mm) larger than the outside diam of nom 2 in. (51 mm) diam (and smaller) nonmetallic pipes or conduits (Item 2) and a max of 1/2 in. (13 mm) larger than the outside diam of nom 2-1/2 in. (64 mm) diam (and larger) nonmetallic pipes or conduits. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants — One nonmetallic pipe or conduit to be centered within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may

A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. Rigid Nonmetallic Conduit\*\* — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core PVC conduit.

C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in.(102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

D. Polyvinyl Chloride (PVC) Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 40 cellular core PVC pipe for use in

closed (process or supply) or vented (drain, waste or vent) piping systems. E. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core or

cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

F. Flame Retardant Polypropylene (FRPP) Pipe — Nom 3 in. (76 mm) diam Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When nom 3-1/2 or 4 in. (89 or 102 mm) diam pipe is used, T Rating is 0 hr. When nom 3 in. (76 mm) diam (or smaller) pipe is used, the T Rating is equal to the hourly fire rating of the wall assembly in which it is installed.

 Firestop System — The details of the firestop system shall be as follows: A. Foil Tape — Nom 4 in. (102 mm) wide, 3 mil thick aluminum tape wrapped around pipe or conduit prior to the

installation of the wrap strip (Item 3B). Min of one wrap, flush with the wall surfaces on both sides of the wall assembly. Foil tape is not required for solid core PVC and CPVC pipes and conduits.

B. Fill, Void or Cavity Materials\* — Wrap Strip — 1 in. (25 mm) wide, nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil. Wrap strip(s) tightly wrapped around pipe or conduit (foil side exposed) and butted against the wall surfaces on both sides of the wall assembly. Each layer of wrap strip to be installed with butted seam, with butted seams in successive layers staggered. Wrap strip(s) temporarily held in position using aluminum foil tape, steel wire tie, or equivalent. The min number of wrap strip layers is dependent on the size of the pipe or conduit as shown below:

Conduit Diam	Strip Layers		
1-1/2 to 2 in. (38 to 51 mm)	1		
2-1/2 to 3 in. (64 to 76 mm)	3		
3-1/2 to 4 in. (89 to 102 mm)	4		

### 3M COMPANY - FS-195+

C. Steel Collar — Nom 1 in. (25 mm) deep collar with 1-1/4 in. (32 mm) wide by 2 in. (51 mm) long anchor tabs and min 1/2 in. (13 mm) long tabs to retain wrap strip.

Coils of precut min 0.016 in. (0.41 mm) thick (No. 28 gauge) galv sheet steel available from wrap strip manufacturer. As an alternate, collar may be field-fabricated from min 0.016 in. (0.41 mm) thick (28 gauge) galv sheet steel in accordance with instruction sheet supplied by wrap strip manufacturer. Collar, with anchor tabs bent outward 90 degree, wrapped tightly around wrap strip with min 1 in. (25 mm) overlap at seam and compressed around wrap strip(s) using a min 1/2 in. (13 mm) wide by min 0.028 in. (0.71 mm) thick stainless steel band clamp at the collar midheight. As an alternate to the band clamps, collars may be secured by a means No. 10 by 1/2 in. (13 mm) long sheet metal screws installed in the vertical axis at the center of the 1 in. (25 mm) overlap along the perimeter joint of the collar. A min of three screws is required. Collar anchor tabs pressed tightly against wall surfaces, and secured to wall surfaces with 3/16 in. (5 mm) diam steel toggle bolts, or equivalent, in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Min three anchor bolts for nom 1/2 to 2 in. (13 to 51 mm) pipes or conduits, min 4 anchor bolts for nom 2-1/2 and 3 in. (64 and 76 mm) pipes or conduits and min 5 anchor bolts for nom 3-1/2 and 4 in. (89 and

102 mm) pipes or conduits, symmetrically located. Retainer tabs bent 90 deg toward pipe to lock wrap strip(s) in position.

D. Fill, Void or Cavity Materials\* — Caulk, Sealant or Putty — (Optional — Not Shown) — Generous bead of caulk or putty applied to outer perimeter of wrap strip at interface with wall surfaces and to perimeter of pipe or conduit at its egress from the wrap strip layers. 3M COMPANY — CP 25WB+, MP+ Stix, IC 15WB+, FireDarn 150+ caulk or FB-3000 WT sealant. (Note: CP 25WB+ and FireDarn 150+ not suitable for use with CPVC pipes.)

E. Firestop Device\* — (Not Shown) — As an alternate to Item A and B when nom 1-1/2, 2, 3 or 4 in. (38, 51, 76 or 102 mm) diam nonmetallic pipes are used, a firestop device consisting of a sheet-steel split collar lined with intumescent material and provided with steel clips for attachment may be used. Firestop device to be installed on underside of top plate or on both sides of wall in accordance with the accompanying installation instructions. 3M COMPANY — PPD 150, PPD 200, PPD 300, PPD 400, PPD 1.5, PPD 2, PPD 3

\*\*Bearing the UL Listing Mark

Service. Always look for the Mark on the product.

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

Last Updated on 2009-11-20

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UL Product iQ™

### XHEZ.W-L-1084 - Through-penetration Firestop Systems

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
- 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.

### XHEZ - Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems System No. W-L-1084

July 29, 1995

F Rating — 1 Hr

T Rating — 0 Hr



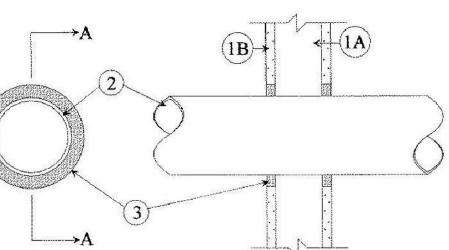
ARCHITECTURE-INC JAA ARCHITECTURE INC

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P: 904.379.5108 E: JOHN@JAAARCHITECTURE.COM LIC. AR92748

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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM
BUILDING CODES AND THE APPLICABLE FIRE-SAFETY STANDARDS AS DETERMINED BY THE LOCAL AUTHORITY IN ACCORDANCE WITH THIS SECTION AND CHAPTER 633, FLORIDA STATUTES. TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE SPACE HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION 2020 AND THE 7TH EDITION OF THE FLORIDA FIRE PREVENTION CODE BASED ON NFPA, 1 FIRE CODE 2018 EDITION & NFPA 101 LIFE SAFETY CODE 2018 EDITION.



1. Wall Assembly — The fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.

B. Gypsum Board\* — Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Diam of opening is 1-1/2 in. larger than the outside diam of pipe.

2. Through-Penetrant — One metallic pipe, conduit or tubing to be centered within the firestop system. An annular space of 3/4 in. is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

- A. Steel Pipe Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B. Conduit — Nom 6 in. diam (or smaller) electrical metallic tubing or steel conduit.
- C. Copper Tubing Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
- D. Copper Pipe Nom 6 in, diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material\* — Sealant — Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly. 3M COMPANY --- FB-2000+

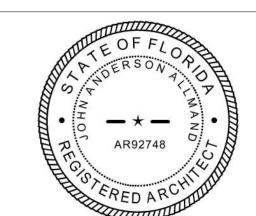
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Last Updated on 1995-07-29

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REVISIONS # DATE DESCRIPTION

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